

SHINHAN FINANCIAL GROUP CO LTD

Form 20-F

April 30, 2019

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As filed with the Securities and Exchange Commission on April 30, 2019

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Form 20-F

(Mark One)

REGISTRATION STATEMENT PURSUANT TO SECTION 12(b) OR 12(g) OF THE SECURITIES
EXCHANGE ACT OF 1934

OR

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT
OF 1934

For the fiscal year ended December 31, 2018

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE
ACT OF 1934

For the transition period from _____ to _____

OR

**SHELL COMPANY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES
EXCHANGE ACT OF 1934**

Date of event requiring this shell company report

Commission File Number: 001-31798

Shinhan Financial Group Co., Ltd.

(Exact name of registrant as specified in its charter)

N/A
(Translation of registrant's
name into English)

The Republic of Korea
(Jurisdiction of
incorporation or organization)

20, Sejong-daero 9-gil, Jung-gu

Seoul 04513, Korea

(Address of principal executive offices)

**Park Cheolwoo, +822 6360 3129 (T), cheol.park@shinhan.com, +822 6360 3098 (F), 20, Sejong-daero 9-gil,
Jung-gu, Seoul 04513, Korea**

(Name, Telephone, E-mail and/or Facsimile number and Address of Company Contact Person)

Securities registered or to be registered pursuant to Section 12(b) of the Act:

Title of Each Class:	Name of Each Exchange on Which Registered:
Common stock, par value Won 5,000 per share	New York Stock Exchange*
American depositary shares	New York Stock Exchange

* Not for trading, but only in connection with the listing of American depositary shares on the New York Stock Exchange, pursuant to the requirements of the Securities and Exchange Commission.

Securities registered or to be registered pursuant to Section 12(g) of the Act:

None

Securities for which there is a reporting obligation pursuant to Section 15(d) of the Act:

None

Indicate the number of outstanding shares of each of Shinhan Financial Group's classes of capital or common stock as of the close of the last full fiscal year covered by this Annual Report: 470,650,928 shares of common stock, par value of Won 5,000 per share.

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act: Yes No

If this report is an annual or transition report, indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934: Yes No

Note Checking the box above will not relieve any registrant required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934 from their obligations under those Sections.

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically, if any, every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or an emerging growth company. See the definitions of large accelerated filer, accelerated filer, and emerging growth company in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Non-accelerated filer

Emerging growth company

If an emerging growth company that prepares its financial statements in accordance with U.S. GAAP, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

The term new or revised financial accounting standard refers to any update issued by the Financial Accounting Standards Board to its Accounting Standards Codification after April 5, 2012.

Indicate by check mark which basis of accounting the registrant has used to prepare the financial statements included in this filing:

U.S.
GAAP

International Financial Reporting Standards as issued

Other

by the International Accounting Standards Board

If Other has been checked in response to the previous question, indicate by check mark which financial statement item the registrant has elected to follow: Item 17 Item 18

If this is an annual report, indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act): Yes No

(APPLICABLE ONLY TO ISSUERS INVOLVED IN BANKRUPTCY PROCEEDINGS DURING THE PAST FIVE YEARS)

Indicate by check mark whether the registrant has filed all documents and reports required to be filed by Section 12, 13 or 15(d) of the Securities Exchange Act of 1934 subsequent to the distribution of securities under a plan confirmed by a court: Yes No

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CERTAIN DEFINED TERMS, CONVENTIONS AND CURRENCY OF PRESENTATION

Unless otherwise specified or the context otherwise requires:

the terms we, us, our, Shinhan Financial Group, SFG and the Group mean Shinhan Financial Group and its consolidated subsidiaries; and

the terms Shinhan Financial Group Co., Ltd., our company and our holding company mean Shinhan Financial Group Co., Ltd.

All references to Korea or the Republic contained in this annual report are to the Republic of Korea. All references to the Government are to the government of the Republic of Korea. References to the Financial Services Commission are to the Financial Services Commission of Korea, and references to the Financial Supervisory Service are to the Financial Supervisory Service of Korea, the executive body of the Financial Services Commission.

The fiscal year for us and our subsidiaries ends on December 31 of each year. Unless otherwise specified or the context otherwise requires, all references to a particular year are to the year ended December 31 of that year.

The currency of the primary economic environment in which we operate is Korean Won.

In this annual report, unless otherwise indicated, all references to Won or W are to the currency of the Republic of Korea, and all references to U.S. Dollars, Dollars, \$ or US\$ are to the currency of the United States of America. Unless otherwise indicated, all translations from Won to Dollars were made at ₩1,112.9 to US\$1.00, which was the noon buying rate in the City of New York on December 31, 2018 for cable transfers according to the H.10 statistical release of the Federal Reserve Board (the Noon Buying Rate). On April 19, 2019, the Noon Buying Rate was ₩1,135.4 to US\$1.00. The Noon Buying Rate has been volatile recently and the U.S. Dollar amounts referred to in this report should not be relied upon as an accurate reflection of our results of operations. We expect this volatility to continue in the near future. No representation is made that the Won or U.S. Dollar amounts referred to in this report could have been or could be converted into Dollars or Won, as the case may be, at any particular rate or at all.

Unless otherwise indicated, the financial information presented in this annual report has been prepared on a consolidated basis in accordance with International Financial Reporting Standards (IFRS) as issued by the International Accounting Standards Board (IASB).

Any discrepancies in the tables included herein between totals and sums of the amounts listed are due to rounding.

FORWARD LOOKING STATEMENTS

This annual report includes forward-looking statements, as defined in Section 27A of the U.S. Securities Act, as amended, and Section 21E of the U.S. Securities Exchange Act of 1934, as amended (the Exchange Act), including statements regarding our expectations and projections for future operating performance and business prospects. The words believe, expect, anticipate, estimate, project and similar words used in connection with any discussion of future operating or financial performance identify forward-looking statements. In addition, all statements other than statements of historical facts included in this annual report are forward-looking statements.

Although we believe that the expectations reflected in the forward-looking statements are reasonable, we can give no assurance that such expectations will prove to be correct. All forward-looking statements are management's present expectations of future events and are subject to a number of factors and uncertainties that

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could cause actual results to differ materially from those described in the forward-looking statements. This annual report discloses, under the caption "Item 3.D. Risk Factors" and elsewhere, important factors that could cause actual results to differ materially from our expectations ("Cautionary Statements"). Included among the factors discussed under the caption "Item 3.D. Risk Factors" are the following risks related to our business, which could cause actual results to differ materially from those described in the forward-looking statements: the risk of adverse impacts from an economic downturn; increased competition; market volatility in securities and derivatives markets, interest or foreign exchange rates or indices; other factors impacting our operational plans; or legislative and/or regulatory developments. We caution you not to place undue reliance on the forward-looking statements, which speak only as of the date of this annual report. All subsequent written and oral forward-looking statements attributable to us or persons acting on our behalf are expressly qualified in their entirety by the Cautionary Statements.

Table of Contents**ITEM 1. IDENTITY OF DIRECTORS, SENIOR MANAGEMENT AND ADVISERS**

Not applicable.

ITEM 2. OFFER STATISTICS AND EXPECTED TIMETABLE

Not applicable.

ITEM 3. KEY INFORMATION**ITEM 3.A. Selected Financial Data**

The selected consolidated income statement and balance sheet data set forth below for the years ended December 31, 2014, 2015, 2016, 2017 and 2018 have been derived from our consolidated financial statements which have been prepared in accordance with IFRS as issued by the IASB. Our consolidated financial statements as of and for the years ended December 31, 2014, 2015, 2016, 2017 and 2018 have been audited by independent registered public accounting firm KPMG Samjong Accounting Corp. Beginning on January 1, 2018, we have adopted IFRS 9 Financial Instruments and IFRS 15 Revenue from Contracts with Customers. In accordance with the guidance in IFRS 9 and IFRS 15, an entity that adopts the classification and measurement requirements of these standards need not restate prior periods. For further details regarding these changes and the transition effects of the adoption of these new standards, see Item 5.A. Operating Results Critical Accounting Policies Recently Adopted Standards and Interpretations IFRS 9, Financial Instruments and IFRS 15, Revenue from Contracts with Customers and Note 60 of the notes to our consolidated financial statements included in this report. As the restatement of prior periods is not required, certain of our historical financial information as of and for the years ended December 31, 2016 and 2017 is not directly comparable against that of our financial information after January 1, 2018.

You should read the following data with the more detailed information contained in Item 5. Operating and Financial Review and Prospects and our consolidated financial statements included in Item 18. Financial Statements. Historical results are not necessarily indicative of future results.

Consolidated Income Statement Data

	Year Ended December 31,					
	2014	2015	2016	2017	2018	2018 ⁽¹⁾
	(In billions of Won and millions of US\$, except per common share data)					
Interest income	₩ 12,061	₩ 11,130	₩ 11,236	₩ 11,799	₩ 13,572	\$ 12,196
Interest expense	(5,271)	(4,437)	(4,031)	(3,956)	(4,992)	(4,486)
Net interest income	6,790	6,693	7,205	7,843	8,580	7,710
Fees and commission income	3,561	3,897	3,804	4,045	3,295	2,961
Fees and commission expense	(2,091)	(2,276)	(2,238)	(2,334)	(1,356)	(1,219)
Net fees and commission income	1,469	1,621	1,566	1,711	1,939	1,742
Net insurance loss	(413)	(432)	(419)	(460)	(472)	(424)

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Dividend income	176	308	282	257	88	79
Net gain on financial instruments at fair value through profit or loss					420	377
Net gain on financial instruments at fair value through profit or loss (overlay approach)					75	67
Net trading income (loss)	262	(344)	370	963		
Net loss on financial instruments designated at fair value through profit or loss (IFRS 9)					(27)	(24)
Net gain (loss) on financial instruments designated at fair value through profit or loss (IAS 39)	(361)	460	(502)	(1,060)		
Net foreign currency transaction gain	224	78	462	364	194	174
Net gain on disposal of financial asset at fair value through other comprehensive income					21	18

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	Year Ended December 31,					
	2014	2015	2016	2017	2018	2018 ⁽¹⁾
	(In billions of Won and millions of US\$, except per common share data)					
Net gain on disposal of available-for-sale financial assets	681	772	648	499		
Provision for credit loss allowance					(748)	(672)
Impairment loss on financial assets	(1,174)	(1,264)	(1,196)	(1,014)		
General and administrative expense	(4,463)	(4,475)	(4,509)	(4,811)	(4,742)	(4,261)
Net other operating expenses	(536)	(444)	(798)	(462)	(829)	(744)
Operating income	2,655	2,973	3,109	3,830	4,499	4,042
Equity method income	31	21	10	20	17	16
Other non-operating income (expense), net	182	147	52	(53)	(50)	(44)
Profit before income taxes	2,868	3,141	3,171	3,797	4,466	4,014
Income tax expense	(668)	(695)	(346)	(848)	(1,268)	(1,140)
Profit for the year	₩ 2,200	₩ 2,446	₩ 2,825	₩ 2,949	₩ 3,198	\$ 2,874
Other comprehensive income (loss) for the year, net of income tax						
Items that are or may be reclassified to profit or loss:						
Gain on financial asset at fair value through other comprehensive income	₩	₩	₩	₩	₩ 161	\$ 145
Loss on financial instruments at fair value through profit or loss (overlay approach)					(54)	(49)
Gain (loss) on available-for-sale financial assets	136	(266)	(434)	(323)		
Equity in other comprehensive income (loss) of associates	6	12	3	(23)	7	7
Foreign currency translation adjustments for foreign operations	(13)	(6)	12	(194)	20	18
Net change in unrealized fair value of cash flow hedges	(16)	3	(1)	16	(20)	(18)
Other comprehensive income (loss) of separate account	6	2	(4)	(9)	9	7
	119	(255)	(424)	(533)	123	110
Items that will never be reclassified to profit or loss:						
Remeasurements of the defined benefit liability	(154)	(82)	15	103	(93)	(84)
Equity in other comprehensive income of associates				1		

Valuation gain on financial asset at fair value through other comprehensive income					23	20
Loss on disposal of financial asset at fair value through other comprehensive income					(3)	(2)
Changes in own credit risk on financial liabilities designated at fair value through profit of loss					2	2
	(154)	(82)	15	104	(71)	(64)
Total other comprehensive income (loss), net of income tax	(36)	(337)	(409)	(429)	52	46
Total comprehensive income for the year	₩ 2,164	₩ 2,109	₩ 2,416	₩ 2,520	₩ 3,250	\$ 2,920
Profit for the year attributable to:						
Equity holders of the Group	₩ 2,081	₩ 2,367	₩ 2,775	₩ 2,919	₩ 3,156	\$ 2,837
Non-controlling interest	119	79	50	30	42	37
Total comprehensive income attributable to:						
Equity holders of the Group	2,046	2,034	2,367	2,491	3,208	2,882
Non-controlling interest	118	75	49	29	42	38

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	Year Ended December 31,					
	2014	2015	2016	2017	2018	2018 ⁽¹⁾
	(In billions of Won and millions of US\$, except per common share data)					
Earnings per share:						
Basic earnings per share in Won and US\$ ⁽²⁾	4,195	4,789	5,736	6,118	6,579	5.91
Dilutive earnings per share in Won and US\$ ⁽³⁾	4,195	4,789	5,736	6,118	6,579	5.91

Notes:

- (1) Won amounts are expressed in U.S. Dollar at the rate of ₩1,112.9 to US\$1.00, the Noon Buying Rate in effect on December 31, 2018 for the convenience of readers. No representation is made that the Won or U.S. Dollar amounts referred to above could have been or could be converted into U.S. Dollars or Won, as the case may be, at any particular rate or at all.
- (2) Basic earnings per share are calculated by dividing profit for the year available to holders of our common shares by the weighted average number of common shares issued and outstanding for the relevant period.
- (3) Dilutive earnings per share are calculated in a manner consistent with basic earnings per share, while giving effect to the potential dilution that could occur if convertible securities, options or other contracts to issue common shares were converted into or exercised for common shares. Common shares issuable upon conversion of redeemable convertible preferred shares are potentially dilutive.

Consolidated Balance Sheet Data

	As of December 31,					
	2014	2015	2016	2017	2018	2018 ⁽¹⁾
	(In billions of Won and millions of US\$, except per common share data)					
Assets						
Cash and due from banks at amortized cost	₩	₩	₩	₩	₩ 17,349	\$ 15,589
Cash and due from banks	20,585	22,024	19,181	22,669		
Financial assets at fair value through profit or loss					43,535	39,118
Trading assets	24,362	22,638	26,696	28,464		
Financial assets designated at fair value through profit or loss (IAS 39)	2,737	3,244	3,416	3,579		
Derivative assets	1,568	1,995	3,003	3,400	1,794	1,612
Securities at fair value through other comprehensive income					38,314	34,427
Available-for-sale financial assets	31,418	33,966	37,663	42,117		
Securities at amortized cost					28,478	25,589
Held-to-maturity financial assets	13,373	16,192	19,805	24,991		
Loans at amortized cost					299,609	269,215
Loans	221,618	246,441	259,011	275,566		

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Property and equipment	3,147	3,055	3,146	3,022	3,004	2,699
Intangible assets	4,153	4,266	4,227	4,273	4,320	3,882
Investments in associates	342	393	354	631	671	603
Current tax receivable	11	10	13	25	45	41
Deferred tax assets	228	164	641	592	427	384
Investment property	268	209	353	418	475	427
Other assets	14,203	15,947	18,167	16,552	21,572	19,383
Assets held for sale	9	4	4	8	8	7

Total assets	₩ 338,022	₩ 370,548	₩ 395,680	₩ 426,307	₩ 459,601	\$ 412,976
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Liabilities

Deposits	₩ 193,710	₩ 217,676	₩ 235,138	₩ 249,419	₩ 265,000	\$ 238,117
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	As of December 31,					
	2014	2015	2016	2017	2018	2018 ⁽¹⁾
	(In billions of Won and millions of US\$, except per common share data)					
Financial liabilities at fair value through profit or loss					1,420	1,276
Trading liabilities	2,689	2,135	1,977	1,848		
Financial liabilities designated at fair value through profit or loss (IFRS 9)					8,536	7,670
Financial liabilities designated at fair value through profit or loss (IAS 39)	8,996	8,916	9,234	8,298		
Derivative liabilities	1,718	2,599	3,528	3,488	2,440	2,192
Borrowings	22,974	21,734	25,294	27,587	29,819	26,794
Debt securities issued	37,335	41,221	44,327	51,341	63,228	56,813
Liability for defined benefit obligations	309	226	131	7	127	114
Provisions	694	699	729	429	508	457
Current tax payable	257	142	273	349	430	387
Deferred tax liabilities	10	16	11	10	22	20
Liabilities under insurance contracts	17,776	20,058	22,377	24,515	26,219	23,559
Other liabilities	21,040	23,313	20,916	25,312	25,200	22,643
Total liabilities	₩ 307,507	₩ 338,735	₩ 363,935	₩ 392,603	₩ 422,949	\$ 380,042
Equity						
Capital stock	₩ 2,645	₩ 2,645	₩ 2,645	₩ 2,645	₩ 2,645	\$ 2,377
Hybrid bonds	537	737	498	424	1,532	1,376
Capital surplus	9,887	9,887	9,887	9,887	9,896	8,893
Capital adjustments	(393)	(424)	(458)	(398)	(553)	(497)
Accumulated other comprehensive income(loss)	638	305	(102)	(530)	(753)	(677)
Retained earnings	15,869	17,690	18,640	20,792	22,959	20,630
Total equity attributable to equity holders of the Group	29,184	30,840	31,110	32,820	35,726	32,102
Non-controlling interests	1,331	973	635	884	926	832
Total equity	₩ 30,515	₩ 31,813	₩ 31,745	₩ 33,704	₩ 36,652	\$ 32,934
Total liabilities and equity	₩ 338,022	₩ 370,548	₩ 395,680	₩ 426,307	₩ 459,601	\$ 412,976

Note:

- (1) Won amounts are expressed in U.S. Dollar at the rate of ₩1,112.9 to US\$1.00, the Noon Buying Rate in effect on December 31, 2018 for the convenience of readers. No representation is made that the Won or U.S. Dollar amounts referred to above could have been or could be converted into U.S. Dollars or Won, as the case may be, at any particular rate or at all.

Table of Contents**Dividends**

	Year Ended December 31,				
	2014	2015	2016	2017	2018
(In Won and US\$)					
Cash dividends per share of common stock:					
In Korean Won	₩ 950	₩ 1,200	₩ 1,450	₩ 1,450	₩ 1,600
In U.S. Dollars ⁽¹⁾	\$ 0.87	\$ 1.03	\$ 1.20	\$ 1.36	\$ 1.44
Cash dividends per share of preferred stock:					
In Korean Won	₩ 5,580	₩ 5,580	₩ N/A	₩ N/A	₩ N/A
In U.S. Dollars ⁽¹⁾	\$ 5.12	\$ 4.77	\$ N/A	\$ N/A	\$ N/A

N/A = not available

Note:

- (1) Won amounts for 2014, 2015, 2016, 2017 and 2018 are expressed in U.S. Dollar at the rate of ₩1,090.9, ₩1,169.3, ₩1,203.7, ₩1,067.4 and ₩1,112.9, respectively, to US\$1.00, the Noon Buying Rate in effect on December 31, 2014, 2015, 2016, 2017 and 2018, respectively, for the convenience of readers. No representation is made that the Won or U.S. Dollar amounts referred to above could have been or could be converted into U.S. Dollars or Won, as the case may be, at any particular rate or at all.

Selected Statistical Information**Profitability Ratios and Other Data**

	Year Ended December 31,				
	2014	2015	2016	2017	2018
(Percentages)					
Net income attributable to the Group as a percentage of:					
Average total assets ⁽¹⁾	0.68%	0.69%	0.73%	0.72%	0.72%
Average total Group stockholders equity ⁽¹⁾	7.25	7.87	8.97	8.94	9.23
Dividend payout ratio ⁽²⁾	24.66	27.21	25.62	23.92	24.81
Net interest spread ⁽³⁾	1.93	1.78	1.83	1.94	1.91
Net interest margin ⁽⁴⁾	2.31	2.08	2.06	2.13	2.14
Efficiency ratio ⁽⁵⁾	87.31	88.15	88.73	89.04	85.36
Cost-to-income ratio ⁽⁶⁾	55.32	52.74	51.34	52.39	47.51
Cost-to-average assets ratio ⁽¹⁾⁽⁷⁾	6.09	6.56	6.45	7.48	5.84
Equity to average asset ratio ⁽¹⁾⁽⁸⁾	9.36	8.72	8.14	8.00	7.77

Notes:

- (1) Average total assets (including average interest-earning assets), liabilities (including average interest-bearing liabilities) and stockholder's equity are based on (a) daily balances for Shinhan Bank and (b) quarterly balances for other subsidiaries.
- (2) Represents the ratio of total dividends declared on common and preferred stock and hybrid bonds as a percentage of net income attributable to the Group.
- (3) Represents the difference between the yield on average interest-earning assets and the cost of average interest-bearing liabilities.
- (4) Represents the ratio of net interest income to average interest-earning assets.

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- (5) Represents the ratio of non-interest expense to the sum of net interest income and non-interest income. Efficiency ratio is used as a measure of efficiency for banks and financial institutions. Efficiency ratio may be reconciled to comparable line items in our income statements for the periods indicated as follows:

	Year Ended December 31,				
	2014	2015	2016	2017	2018
	(In billions of Won, except percentages)				
Non-interest expense (A)	₩ 19,733	₩ 23,368	₩ 24,957	₩ 30,831	₩ 26,042
<i>Divided by</i>					
The sum of net interest income and non-interest income (B)	22,601	26,509	28,127	34,627	30,508
Net interest income	6,790	6,693	7,205	7,843	8,580
Non-interest income	15,811	19,816	20,922	26,784	21,928
Efficiency ratio ((A) as a percentage of (B))	87.31%	88.15%	88.73%	89.04%	85.36%

- (6) Represents the ratio of general and administrative expenses to the sum of net interest income, net fee and commission income, net gain on financial assets and liabilities at fair value through profit or loss and net other operating income.
- (7) Represents the ratio of non-interest expense to average total assets.
- (8) Represents the ratio of average stockholders' equity to average total assets.

Asset Quality Ratios

	As of December 31,				
	2014	2015	2016	2017	2018
	(In billions of Won, except percentages)				
Total gross loans	₩ 223,879	₩ 248,429	₩ 261,004	₩ 277,489	₩ 303,070
Total allowance for loan losses	₩ 2,501	₩ 2,318	₩ 2,361	₩ 2,311	₩ 2,725
Allowance for loan losses as a percentage of total loans	1.12%	0.93%	0.90%	0.83%	0.90%
Impaired loans ⁽¹⁾	₩ 2,127	₩ 1,902	₩ 1,804	₩ 1,793	₩ 1,697
Impaired loans as a percentage of total loans	0.95%	0.77%	0.69%	0.65%	0.56%
Allowance as a percentage of impaired loans	117.58%	121.87%	130.88%	128.89%	160.58%
Total non-performing loans ⁽²⁾	₩ 1,286	₩ 1,333	₩ 1,174	₩ 1,075	₩ 1,090
Non-performing loans as a percentage of total loans	0.57%	0.54%	0.45%	0.39%	0.36%
Allowance as a percentage of total assets	0.74%	0.63%	0.60%	0.54%	0.59%

Notes:

- (1) Impaired loans include (i) loans for which the borrower has defaulted under Basel standards applicable during the relevant period and (ii) loans that qualify as troubled debt restructurings applicable during the relevant period.
- (2) Non-performing loans are defined as loans, whether corporate or retail, that are past due more than 90 days.

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	As of December 31,				
	2014	2015	2016	2017	2018
	(Percentages)				
Group BIS ratio ⁽¹⁾	13.05%	13.39%	15.00%	14.78%	14.87%
Total capital adequacy ratio of Shinhan Bank	15.43	14.75	15.70	15.59	16.03
Adjusted equity capital ratio of Shinhan Card ⁽²⁾	29.69	28.88	26.23	24.52	21.69
Solvency ratio for Shinhan Life Insurance ⁽³⁾	230.69	204.19	178.28	175.41	238.67

Notes:

- (1) Under the guidelines of the Financial Services Commission applicable to financial holding companies, the minimum requisite capital ratio applicable to us is the Bank for International Settlement (BIS) ratio of 8%. This computation is based on our consolidated financial statements in accordance with IFRS. See Item 4.B. Business Overview Supervision and Regulation Principal Regulations Applicable to Financial Holding Companies Capital Adequacy.
- (2) Represents the ratio of total adjusted shareholders' equity to total adjusted assets and is computed in accordance with the guidelines issued by the Financial Services Commission for credit card companies. Under these guidelines, a credit card company is required to maintain a minimum adjusted equity capital ratio of 8%. This computation is based on the consolidated financial statements of the credit card company prepared in accordance with IFRS. See Item 4.B. Business Overview Supervision and Regulation Principal Regulations Applicable to Credit Card Companies Capital Adequacy.
- (3) Solvency ratio is the ratio of the solvency margin to the standard amount of solvency margin as defined and computed in accordance with the guidelines issued by the Financial Services Commission for life insurance companies. Under these guidelines, Shinhan Life Insurance is required to maintain a minimum solvency ratio of 100%. See Item 4.B. Business Overview Supervision and Regulation Principal Regulations Applicable to Insurance Companies Capital Adequacy.

The Financial Services Commission regulations require that capital ratios be computed based on our consolidated financial statements under IFRS and regulatory guidelines. The following table sets forth our capital ratios computed on the basis of our consolidated financial statements under IFRS and the regulatory guidelines of the Financial Services Commission.

	As of December 31,		
	2016	2017	2018
	(In millions of Won, except percentages)		
Risk-weighted assets	₩ 198,642,643	₩ 207,768,636	₩ 228,678,105
Total risk-adjusted capital	₩ 29,786,515	₩ 30,713,464	₩ 33,993,061
Tier I capital	₩ 26,210,420	₩ 27,672,891	₩ 30,677,876
Tier I common equity capital	₩ 25,325,054	₩ 26,756,509	₩ 28,696,267
Capital adequacy ratio (%)	15.00%	14.78%	14.87%

Tier I capital adequacy ratio (%)	13.19%	13.32%	13.42%
Common equity capital adequacy ratio (%)	12.75%	12.88%	12.55%

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The following table sets forth, for the periods and dates indicated, certain information concerning the Noon Buying Rate in Won per US\$1.00.

Year Ended December 31,	At End of Period Average⁽¹⁾		High	Low
	(Won per US\$1.00)			
2014	1,090.9	1,054.0	1,117.7	1,008.9
2015	1,169.3	1,133.7	1,196.4	1,063.0
2016	1,203.7	1,160.5	1,242.6	1,090.3
2017	1,067.4	1,141.6	1,207.2	1,067.4
2018	1,112.9	1,099.3	1,141.7	1,054.6
October	1,140.8	1,131.6	1,141.7	1,112.4
November	1,118.6	1,125.3	1,132.3	1,117.5
December	1,112.9	1,122.5	1,133.2	1,108.8
2019 (through April 19)	1,135.4	1,127.1	1,143.3	1,111.8
January	1,111.8	1,120.3	1,129.5	1,111.8
February	1,124.7	1,121.8	1,128.0	1,116.1
March	1,136.3	1,131.6	1,138.1	1,126.5
April (through April 19)	1,135.4	1,136.3	1,143.3	1,131.7

Source: Federal Reserve Board

Note:

- (1) The average rate for annual and interim periods were calculated by taking the simple average of the Noon Buying Rates on the last day of each month during the relevant period. The average rates for the monthly periods (or portion thereof) were calculated by taking the simple average of the daily Noon Buying Rates during the relevant month (or portion thereof).

We have translated certain amounts in Korean Won, which appear in this annual report, into U.S. Dollars for convenience. This does not mean that the Won amounts referred to could have been, or could be, converted into U.S. Dollars at any particular rate, the rates stated above, or at all. Unless otherwise stated, translations of Won amounts to U.S. Dollars are based on the Noon Buying Rate in effect on December 31, 2018, which was ₩1,112.9 to US\$1.00. On April 19, 2019, the Noon Buying Rate in effect was ₩1,135.4 to US\$1.00.

ITEM 3.B. Capitalization and Indebtedness

Not applicable.

ITEM 3.C. Reasons for the Offer and Use of Proceeds

Not applicable.

ITEM 3.D. Risk Factors

An investment in the American depositary shares representing our common shares involves a number of risks. You should carefully consider the following information about the risks we face, together with the other information contained in this annual report, in evaluating us and our business.

Risks Relating to Our Overall Business

Difficult conditions and turbulence in the Korean and global economy and financial markets may adversely affect our business, asset quality, capital adequacy and earnings.

Most of our assets are located in, and we generate most of our income from, Korea. Accordingly, our business and profitability are largely dependent on the general economic and social conditions in Korea,

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including interest rates, inflation, exports, personal expenditures and consumption, unemployment, demand for business products and services, debt service burden of households and businesses, the general availability of credit, the asset value of real estate and securities and other factors affecting the financial well-being of our corporate and retail customers.

The Korean economy is closely integrated with, and is significantly affected by, developments in the global economy. In light of the ongoing general uncertainty about economic and political conditions in Europe (particularly amid Brexit), signs of cooling economy for China, the continuing geopolitical and social instability in various parts of the Middle East, including Iraq, Syria and Yemen, as well as in the former republics of the Soviet Union, including Russia and Ukraine, and potential escalation of the ongoing trade war between the U.S. and China as each country introduces tariffs on goods traded with the other, among others, significant uncertainty remains as to the global economic prospects in general and has adversely affected, and may continue to adversely affect, the Korean economy. In addition, as the Korean economy matures, it is increasingly exposed to the risk of a scissor effect, namely being pursued by competitors in less advanced economies while not having fully caught up with competitors in advanced economies, which risk is amplified by the fact that Korean economy is heavily dependent on exports. The Korean economy also continues to face other difficulties, including sluggishness in domestic consumption and investment, volatility in the real estate market, rising household debt, potential declines in productivity due to aging demographics and low birth rates, and a rise in youth unemployment. Any future deterioration of the global and Korean economies could adversely affect our business, financial condition and results of operations.

In particular, difficulties in financial and economic conditions could result in significant deterioration in the quality of our assets and accumulation of higher provisioning, allowances for loan losses and charge-offs as an increasing number of our corporate and retail customers declare bankruptcy or insolvency or otherwise face increasing difficulties in meeting their debt obligations. For example, in 2011 and 2012, the continuing slump in the real estate market and the shipbuilding industry led to increased delinquency among our corporate borrowers in the construction, real estate leasing, shipbuilding and shipping industries, and in certain cases, even insolvency, workouts, recovery proceedings and/or voluntary arrangements with creditors, as was the case for the current and former member companies of the STX Group, Keangnam Enterprises Co., Ltd., Dongbu Steel Co., Ltd., Sambu Construction Co., Ltd. and Hanjin Heavy Industries & Construction Co., Ltd. During the same period, the sustained slump in the real estate market also led to increased delinquency among our retail borrowers, and in particular, borrowers with collective loans for pre-sale of newly constructed apartment units.

Accordingly, Shinhan Bank's delinquency ratio (based on delinquency of one or more month and net of charge-offs and loan sales) increased from 0.48% as of December 31, 2010 to 0.60% as of December 31, 2011 and 0.61% as of December 31, 2012. However, primarily due to a modest rebound in the housing market and Shinhan Bank's active efforts to reduce its exposure to such troubled industries and other at-risk borrowers through preemptive risk management policies and increased lending to borrowers with high-quality credit profiles as part of Shinhan Bank's strategic initiative to improve its asset quality, Shinhan Bank's delinquency ratio has steadily decreased or remained stable since then, to 0.39% as of December 31, 2013, 0.31% as of December 31, 2014, 0.33% as of December 31, 2015, 0.28% as of December 31, 2016, 0.23% as of December 31, 2017 and 0.25% as of December 31, 2018. There is no assurance, however, that Shinhan Bank will not experience further loan losses from borrowers, particularly those in troubled industries, since the quality of loans to such borrowers may further deteriorate due to increases in base interest rate by the Bank of Korea, a continued slump in these industries or for other reasons. As for Shinhan Card, its delinquency ratio under the Financial Services Commission guidelines increased slightly from 2.15% as of December 31, 2013 to 2.18% as of December 31, 2014, before stabilizing and decreasing to 1.69%, 1.68%, 1.49% and 1.53% as of December 31, 2015, 2016, 2017 and 2018, respectively, largely as a result of its enhanced preemptive risk management and controlled asset growth as well as the sale of large non-performing loans to improve its asset quality.

Moreover, as was the case during the global financial crisis of 2008-2009, depending on the nature of the difficulties in the financial markets and general economy, we may be forced to scale back certain of our core

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lending activities and other operations and/or borrow money at a higher funding cost or face a tightening in the net interest spread, any of which may have a negative impact on our earnings and profitability. Furthermore, while we and our principal subsidiaries currently maintain a capital adequacy ratio at a level higher than the required regulatory minimum, there is no guarantee that an even higher capital requirement will not be imposed by the Government in case of a renewed economic crisis.

In addition, given the highly integrated nature of financial systems and economic relationships worldwide, there may be other unanticipated systemic or other risks that may not be presently predictable. Any of these risks, if materialized, may have a material adverse effect on our business, liquidity, financial condition and results of operations.

Competition in the Korean financial services industry is intense, and may further intensify.

Competition in the Korean financial services industry is, and is likely to remain, intense, including as a result of the sustained low interest rate environment (which narrows opportunities to make profit based on the spread between lending rates and funding rates), the continuing sluggishness in the general economy, the growing maturation and saturation of the industry as a whole, the entry of new market participants and deregulation, among others.

In the banking sector, Shinhan Bank competes principally with other national commercial banks in Korea, but also faces competition from a number of additional banking institutions, including branches and subsidiaries of foreign banks operating in Korea, regional banks, Internet-only banks, government-owned development banks and Korea's specialized banks, such as Korea Development Bank, Industrial Bank of Korea and the National Federation of Fisheries Cooperatives, as well as various other types of financial service providers, including savings institutions (such as mutual savings and finance companies, credit unions and credit cooperatives), investment companies (such as securities brokerage firms, merchant banking corporations and asset management companies) and life insurance companies. As of December 31, 2018, Korea had six major nationwide domestic commercial banks (including Citibank Korea Inc. and Standard Chartered Bank Korea Limited, both of which are domestic commercial banks acquired by global financial institutions), six regional commercial banks, two Internet-only banks and branches and subsidiaries of 38 foreign banks. Foreign financial institutions, many of which have greater experiences and resources than we do, may continue to enter the Korean market and compete with us in providing financial products and services either by themselves or in partnership with existing Korean financial institutions.

In the small- and medium-sized enterprise and retail banking segments, which have been Shinhan Bank's traditional core businesses, competition is expected to increase further. In recent years, Korean banks, including Shinhan Bank, have increasingly focused on stable asset growth based on quality credit, such as corporate borrowers with high credit ratings, loans to small office, home office (SOHO) with high levels of collateralization, and mortgage and home equity loans within the limits of the prescribed loan-to-value ratios and debt-to-income ratios. This common shift in focus toward stable growth based on less risky assets has intensified competition as banks compete for the same limited pool of quality credit by engaging in price competition or by other means although Shinhan Bank has traditionally focused, and will continue to focus, on enhancing profitability rather than increasing asset size or market share, and has avoided, to the extent practicable, engaging in price competition by way of lowering lending rates. In addition, such competition may result in lower net interest margin and reduced overall profitability, especially if the low interest rate environment were to continue for a significant period of time. Although Shinhan Bank's net interest margin has improved slightly in 2018 compared to 2017 due to, at least partly, increases in base interest rate by the Bank of Korea from 1.25% to 1.50% in November 2017 and from 1.50% to 1.75% in November 2018 and may improve further if the base interest rate is increased again during 2019, the effect on its results of operations may be less beneficial due to increased volatility of market interest rates and tighter regulations regarding SOHO loans, including the implementation of additional credit review guidelines for individual businesses. Therefore, if competing financial institutions seek to expand market share by lowering their lending rates, Shinhan Bank may suffer customer

loss,

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especially among customers who select their lenders principally on the basis of lending rates. In response thereto or for other strategic reasons, Shinhan Bank may subsequently lower its lending rates to stay competitive, which could lead to a decrease in its net interest margins and outweigh any potential positive impact on the net interest margin from a general rise in market interest rates. Any future decline in Shinhan Bank's customer base or its net interest margins could have an adverse effect on our results of operations and financial condition.

In the credit card sector, Shinhan Card competes principally with existing monoline credit card companies, credit card divisions of commercial banks, consumer finance companies, other financial institutions and, recently, credit card service providers allied with mobile telecommunications service providers in Korea. Competition has been historically intense in this sector and the market has shown signs of saturation as existing and new credit card service providers make significant investments and engage in aggressive marketing campaigns and promotions to acquire new customers and target customers with high credit quality. While competition has subsided somewhat recently due to stricter government regulations, such as curbs on excessive marketing expenses, competition remains intense and credit card issuers may continue to compete with Shinhan Card for customers by offering lower interest rates and fees, higher credit limits, more attractive promotions and incentives and alternative products such as credit card reward points, gift cards and low-interest consumer loan products. As a result, Shinhan Card may lose customers or service opportunities to competing credit card issuers and/or incur higher marketing expenses. Also, over the years, the Government has implemented regulations lowering certain merchant fees chargeable by credit card companies. In 2012, the Government adopted regulations mandating lower merchant fees chargeable to small- and medium-sized enterprises, and beginning January 31, 2016, a further reduction in the merchant fees chargeable to small- and medium-sized enterprises went into effect. The Enforcement Decree of the Specialized Credit Finance Business Act was amended in July 2017 and January 2019 to further expand the range of small- and medium-sized enterprises subject to lower merchant fees, and additional amendments to regulations requiring further downward adjustments to merchant fees may come into force in the future. For further details on the Government's regulations on merchant fees chargeable by credit card companies, See Risks Relating to Our Credit Card Business. Future changes in market conditions as well as other factors, such as stricter regulation, may lead to reduced revenues and deterioration in the asset quality of credit card receivables. In addition, since the implementation of the Improper Solicitation and Graft Act in September 2016, revenue growth for corporate cards and service related industries such as dining, floral and entertainment have shown signs of decline, and additional regulations on loans reducing maximum interest rates chargeable from 27.9% to 24% came into effect in February 2018. These developments have put further downward pressure on the results of operations for credit card companies, including Shinhan Card. Furthermore, the Government's recent guidelines to bolster consumer protection and protect customers' personal data in the aftermath of data leaks at certain credit companies (not including Shinhan Card) may result in additional compliance costs for Shinhan Card. Customer attrition, together with any further lowering of fees or reduction in base and market interest rates and/or additional expenses from more extensive marketing and promotional campaigns that Shinhan Card might implement to acquire and retain customers, could reduce its revenues and earnings. Furthermore, the average credit quality of Shinhan Card's customers may deteriorate if customers with higher credit quality borrow from our competitors rather than Shinhan Card and it may become more difficult for Shinhan Card to attract and maintain quality customers. In general, the growth, market share and profitability of Shinhan Card's operations may decline or become negative as a result of market saturation in this sector, interest rate competition, pressure to lower fee rates and incur higher marketing expenses, as well as Government regulation and social and economic developments in Korea that are beyond our control, such as changes in consumer confidence levels, spending patterns or public perception of credit card usage and consumer debt. If Shinhan Card fails to maintain or attract new cardholders or increase the card usage by existing customers or experiences deterioration in its asset quality and a rise in delinquency, our business, financial condition and results of operations may be adversely affected.

In other financial services sectors, our other subsidiaries also compete in a highly fragmented market. Some of our competitors, particularly major global financial institutions, have greater experience and resources than we do.

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Consolidation among our rival institutions and the Government's privatization efforts may also add competition in the markets in which we and our subsidiaries conduct business. A number of significant mergers and acquisitions in the industry have taken place in Korea recently, including Hana Financial Group's acquisition of Korea Exchange Bank in 2012 and the resulting merger of Hana Bank and Korea Exchange Bank in September 2015. Moreover, in 2014, pursuant to the implementation of the Government's privatization plan with respect to Woori Finance Holdings (now merged into Woori Bank) and its former subsidiaries, Woori Financial, Woori Asset Management and Woori F&I were acquired by KB Financial Group, Kiwoom Securities and Daishin Securities, respectively, and Woori Investment & Securities, Woori Aviva Life Insurance and Woori FG Savings Bank were acquired by NongHyup Financial Group. In addition, in October 2014, the Government's ownership interest in the holding companies of Kwangju Bank and Kyongnam Bank were acquired by JB Financial Group and BS Financial Group (now BNK Financial Group), respectively. In 2015, the Government decided to sell a 30% to 40% interest in Woori Bank to multiple investors in separate blocks ranging from 4% to 10% each. Since December 2016, Korea Deposit Insurance Corporation has consummated sales transactions with seven institutional investors including Kiwoom Securities, Korea Investment and Securities, Hanwha Life Insurance, Tongyang Life Insurance, Eugene Asset Management, Mirae Asset Global Investments and IMM Private Equity for the sale of an aggregate 29.7% interest in Woori Bank in separate blocks. In the securities brokerage sector, Mirae Asset acquired KDB Daewoo Securities in 2016, creating the largest brokerage company in Korea by assets, and on June 1, 2016, KB Financial Group completed its acquisition of Hyundai Securities and merged it with its existing brokerage unit, KB Investment & Securities Co, creating the fifth largest brokerage company in Korea by assets. Any of these developments may place us at a competitive disadvantage and outweigh any potential benefit to us in the form of opportunities to acquire new customers who are displeased with the level of services at the newly reorganized entities or to provide credit facilities to corporate customers who wish to maintain relationships with a wide range of banks in order to diversify their sources of funding. In September 2018, we announced the acquisition of a 59.15% interest in Orange Life Insurance, Ltd., the former Korean unit of ING Life Insurance, as part of our efforts to diversify and enhance our non-banking businesses. The acquisition was approved by the Financial Services Commission on January 16, 2019 and closed on February 1, 2019. We expect that such consolidation and other structural changes in the financial industry will continue. Other financial institutions may seek to acquire or merge with other entities, and the financial institutions resulting from such consolidation may, by virtue of their increased size and business scope, provide greater competition for us. Increased competition and continuing consolidation may lead to decreased margins, resulting in a material adverse impact on our future profitability.

Regulatory reforms and the general modernization of business practices in Korea have also led to increased competition among financial institutions in Korea. Since July 2015, the Financial Services Commission has provided, through the Korea Financial Telecommunications and Clearings Institute, the integrated automatic payment transfer management service, which allows account holders to search for, terminate or modify automatic payments they have set up with financial institutions participating in such service (currently including banks, securities companies and other financial institutions such as The Post Office, Korean Federation of Community Credit Cooperatives, National Credit Union Federation of Korea, Mutual Savings Bank and National Forestry Cooperative Federation). In addition, the Financial Services Commission began providing the integrated account management service from December 2016, which allows account holders to search for detailed information of their bank accounts opened in banks participating in such service, close small-sum inactive accounts (i.e., accounts with no transaction activity during the previous one year period and with a balance of less than ₩500,000) and transfer the balance in such accounts to other accounts. Moreover, in December 2017, the Financial Services Commission introduced the my account at a glance system, which enables consumers to view their key financial account information online, including information on banks, insurances, mutual finance, loan and card issuances on one page. The my account at a glance system became available on mobile channels in February 2016 and expanded its scope of services to include savings banks and securities companies. Since their introduction, the integrated automatic payment transfer management service, integrated account management service and my account at a glance system have gained widespread acceptance. As the reform of

the financial sector continues, competition may become more intense among existing banks, insurance companies, securities companies and other financial organizations, and may lead to significant changes in the

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current Korean financial market. Moreover, the Regulation on the Supervision of the Banking Business was amended on July 12, 2018 to provide that, beginning on January 1, 2020, in calculating loan to deposit ratio, retail loans and corporate loans will be weighed differently, with retail loans subject to a multiple of 115% and corporate loans (excluding loans to SOHOs) subject to a multiple of 85%, thereby increasing the impact of retail loans and reducing the impact of corporate loans in calculating such ratio. This may further intensify competition for corporate loans and deposits among commercial banks and, as a result, Shinhan Bank may face difficulties in increasing or retaining its corporate loans and deposits, which in turn may result in an increase in its cost of funding.

Furthermore, as the Korean economy further develops and new business opportunities arise, more competitors may enter the financial services industry. For example, as online service providers and technology companies with large-scale user networks, such as Kakao Corp., NAVER and Samsung Electronics, recently make significant inroads in providing virtual payment services through a system based on a growing convergence of financial services and technology commonly referred to as fintech, competition for online customers is growing not just among commercial banks, but also from online and mobile payment service providers. Also, widespread consumer acceptance of mobile phone payment services in lieu of credit card services could add to the competitive threat faced by existing credit card service providers, including our credit card subsidiary. In 2015, the Government announced its plans to allow Internet-only banks to operate in Korea. KT consortium's K-Bank and Kakao consortium's Kakao Bank commenced operations in April 2017 and July 2017, respectively. Internet-only banks may have advantages over traditional banks as the former can pass savings in labor and overhead costs to their customers by offering higher interest rates on deposit accounts, lower loan costs and reduced service fees. Accordingly, commercial banks will likely face increasing pressure to upgrade their service platforms to attract and maintain online users, which represents a growing customer base compared to traditional customers who have primarily conducted banking in-person at physical banking branches.

Recently, following the global financial crisis, the Government has subjected Korean financial institutions to stricter regulatory requirements and guidelines in areas of asset quality, capital adequacy, liquidity and residential and other lending practices (including a requirement to maintain a certain ratio of core capital to total risk exposure, which was introduced in January 2018 in order to control excessive leverage), which has had a dampening effect on competition. The Financial Services Commission implemented the capital requirements of Basel III, whose minimum requirements were phased in sequentially from December 1, 2013 through full implementation by January 1, 2015, based on the guidelines set forth in the amended Regulation on the Supervision of the Banking Business and the Detailed Regulation on the Supervision of the Banking Business. In addition, the Financial Services Commission has implemented the Basel III requirements relating to liquidity coverage ratio and capital conservation buffer, each of which have been fully phased in as of January 1, 2019. As of January 1, 2016, the Financial Services Commission implemented Basel III requirements relating to accumulation of additional capital for systemically important banks and bank holding companies and countercyclical capital buffer requirements. Each year, the Financial Services Commission may designate banks with significant influence (based on size and connectivity with other financial institutions) on the domestic financial system as a domestic systemically important bank and require the accumulation of additional capital in accordance with the highest of: (i) ratio of common equity capital to risk-weighted assets, ranging from 0.0% to 2.0%, depending on the systematic importance evaluation score, (ii) if the bank's holding company is a domestic systemically important bank holding company, the capital ratio corresponding to the additional capital required for the bank holding company under the Financial Holding Company Supervision Regulations, or (iii) if the bank is also a global systemically important bank, as defined by the Basel Committee on Banking Supervision (the Basel Committee), the capital ratio as required by the Basel Committee. According to the instructions of the Financial Services Commission, domestic systemically important banks including Shinhan Bank have been required to maintain an additional capital buffer of 0.25% since January 1, 2016, with such buffer increased by 0.25% annually to reach 1.00% as of January 1, 2019. The Financial Services Commission may also, upon quarterly review, determine and require banks to accumulate a required level of countercyclical capital buffer within the range of 0% to

2.5% of risk-weighted assets, taking into account factors such as the degree of increase in credit relative to the gross domestic product. However, there is no assurance that these measures will have the

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effect of curbing competition or that the Government will not reverse or reduce such measures or introduce other deregulatory measures, which may further intensify competition in the Korean financial services industry. For further details on the capital requirements applicable to us, see Item 4.B. Business Overview Supervision and Regulation Principal Regulations Applicable to Financial Holding Companies Capital Adequacy.

If, despite our efforts to adapt to the changing macroeconomic environment and comply with new regulations, we are unable to compete effectively in the changing business and regulatory environment, our profit margin and market share may erode and our future growth opportunities may become limited, which could adversely affect our business, financial condition and results of operations.

We and our subsidiaries need to maintain our capital ratios above minimum required levels, and the failure to so maintain could result in the suspension of some or all of our operations.

We and our subsidiaries in Korea are required to maintain specified capital adequacy ratios. For example, since January 1, 2015, we and our banking subsidiaries in Korea are required to maintain a minimum common equity Tier I capital adequacy ratio of 4.5%, a Tier I capital adequacy ratio of 6.0% and a total capital (BIS) ratio of 8.0%. These ratios measure the respective regulatory capital as a percentage of risk-weighted assets on a consolidated basis and are determined based on guidelines of the Financial Services Commission. In addition, as further described below, Shinhan Bank is also required to maintain a capital conservation buffer and additional capital as a domestic systemically important bank and may be required to maintain a countercyclical capital buffer. Also, our subsidiaries Shinhan Card, Shinhan Life Insurance and Shinhan Investment are each required to maintain a consolidated adjusted equity capital ratio of 8.0%, a solvency ratio of 100% and a net capital ratio of 100%, respectively.

While we and our subsidiaries currently maintain capital adequacy ratios in excess of the respective required regulatory minimum levels, we or our subsidiaries may not be able to continue to satisfy the capital adequacy requirements for a number of reasons, including an increase in risky assets and provisioning expenses, substitution costs related to the disposal of problem loans, declines in the value of securities portfolios, adverse changes in foreign currency exchange rates, changes in the capital ratio requirements, the guidelines regarding the computation of capital ratios, or the framework set by the Basel Committee upon which the guidelines of the Financial Services Commission are based, or other adverse developments affecting our asset quality or equity capital.

In December 2010, the Basel Committee issued final rules in respect of (i) a global regulatory framework for more resilient banks and banking systems and (ii) an international framework for liquidity risk measurement, standards and monitoring, which together are commonly referred to as Basel III. Under Basel III, Tier I capital is defined to include common equity Tier I and additional Tier I capital. Common equity Tier I capital is a new category of capital primarily consisting of common stock, capital surplus, retained earnings and other comprehensive income (progressively phased into the capital ratio calculation over several years). The new minimum capital requirements, including the minimum common equity Tier I requirement of 4.5% and additional mandatory capital conservation buffer requirement of 2.5%, have been fully implemented as of January 1, 2019. Additional discretionary countercyclical capital buffer requirements are also expected to be phased in, which will range at the discretion of national regulators between 0% and 2.5% of risk-weighted assets. Basel III also introduces a minimum leverage ratio requirement. On December 7, 2017, the Basel Committee finalized several key methodologies for measuring risk-weighted assets. The revisions include a standardized approach for credit risk, standardized approach for operational risk, revisions to the credit valuation adjustment (CVA) risk framework and constraints on the use of internal models. The Basel Committee had also previously finalized a revised standardized model for counterparty credit risk, revisions to the securitization framework and its fundamental review of the trading book, which updates both modeled and standardized approaches for market risk measurement. The revisions also include a capital floor set at 72.5% of total risk-weighted assets based on the revised standardized approaches to limit the extent to which banks

can reduce risk-weighted asset levels through the use of internal models.

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In order to implement the capital requirements under Basel III in Korea, the Regulation on the Supervision of the Banking Business was amended, effective December 1, 2013. Under the amended Regulation on the Supervision of the Banking Business, effective from January 1, 2015, commercial banks in Korea are required to maintain a minimum common equity Tier I ratio of 4.5%, a minimum Tier I capital ratio of 6.0% and a minimum total capital (BIS) ratio of 8.0%. The Regulation on the Supervision of the Banking Business was further amended on December 26, 2014, to implement the liquidity coverage ratio requirements under Basel III in increments of 5% annually, from 80% as of January 1, 2015 to 100% as of January 1, 2019. Capital conservation buffer requirements have also been phased in from January 1, 2016 in increments of 0.625% annually, to the effect that commercial banks in Korea are required to maintain a capital conservation buffer of 2.5% as of January 1, 2019. If a commercial bank fails to maintain such capital conservation buffer requirements, such bank will be subject to certain restrictions relating to its use of income, such as distributing dividends and purchasing treasury stock. As of January 1, 2016, the Financial Services Commission implemented Basel III requirements relating to accumulation of additional capital for systemically important banks and bank holding companies and countercyclical capital buffer requirements. Each year, the Financial Services Commission may designate banks with significant influence (based on size and connectivity with other financial institutions) on the domestic financial system as a domestic systemically important bank and require the accumulation of additional capital in accordance with the highest of: (i) ratio of common equity capital to risk-weighted assets, ranging from 0.0% to 2.0%, depending on the systematic importance evaluation score, (ii) if the bank's holding company is a domestic systemically important bank holding company, the capital ratio corresponding to the additional capital required for the bank holding company under the Financial Holding Company Supervision Regulations, or (iii) if the bank is also a global systemically important bank, as defined by the Basel Committee, the capital ratio as required by the Basel Committee. Shinhan Financial Group, Shinhan Bank and Jeju Bank were selected as a domestic systemically important bank holding company and domestic systemically important bank, respectively, from 2016 through 2019. According to the instructions of the Financial Services Commission, domestic systemically important banks including Shinhan Bank have been required to maintain an additional capital buffer of 0.25% since January 1, 2016, with such buffer increased by 0.25% annually to reach 1.00% as of January 1, 2019. The Financial Services Commission may also, upon quarterly review, determine and require banks to accumulate a required level of countercyclical capital buffer within the range of 0% to 2.5% of risk-weighted assets, taking into account factors such as the degree of increase in credit relative to the gross domestic product. Since March 2016, the Financial Services Commission has maintained countercyclical capital buffer requirements at 0%, and the Financial Supervisory Service has maintained the countercyclical capital buffer requirement at 0% for the first quarter of 2019. In addition, the Regulation on the Supervision of the Banking Business is expected to be amended during 2019 such that the countercyclical capital buffer requirement also takes into account the increase of credit in the retail sector. The Detailed Regulation on the Supervision of the Banking Business was also amended on June 30, 2018 to add concentration of risk in the retail sector as an additional criteria when the Financial Supervisory Service evaluates the risk management systems of Korean banks.

We and our banking subsidiaries are currently, and have been, in full compliance with Basel III requirements as implemented in Korea since its introduction in December 2013. However, there is no assurance that we will continue to be able to be in compliance with Basel III requirements. New requirements under Basel III may require an increase in the credit risk capital requirements in the future, which may require us or our subsidiaries to either improve asset quality or raise additional capital. In addition, if the capital adequacy ratios of us or our subsidiaries were to fall below the required levels, the Financial Services Commission might impose penalties ranging from a warning to suspension or revocation of our or our subsidiaries' business licenses. In order to maintain the capital adequacy ratios above the required levels, we or our subsidiaries may be required to raise additional capital through equity financing, but there is no assurance that we or our subsidiaries will be able to do so on commercially favorable terms or at all and, even if successful, any such capital raising may have a dilutive effect on our shareholders with respect to their interest in us or on us with respect to our interest in our subsidiaries.

Table of Contents***Liquidity, funding management and credit ratings are critical to our ongoing performance.***

Liquidity is essential to our business as a financial intermediary, and we may seek additional funding in the near future to satisfy liquidity needs, meet regulatory requirements, enhance our capital levels or fund the growth of our operations as opportunities arise.

For example, Basel III includes an international framework for liquidity risk measurement, standards and monitoring, as noted above, including a new minimum liquidity standard, known as the liquidity coverage ratio, which is designed to ensure that banks have an adequate stock of unencumbered high quality liquid assets (HQLA) that can be easily and speedily converted into cash in the private marketplace to survive a significant stress scenario lasting 30 calendar days. The liquidity coverage ratio is computed as (a) the value of a banking organization's HQLA, divided by (b) its total expected net cash outflows over the next 30 calendar days under stress scenarios. The minimum liquidity coverage ratio is 100%. In January 2013, the Basel Committee released a revised formulation of the liquidity coverage ratio, one of two quantitative liquidity measures approved in December 2010 as part of Basel III. The Basel Committee extended the timetable for full phase-in of the liquidity coverage ratio to the effect that the minimum liquidity coverage ratio was set at 60% as of January 1, 2015 and thereafter was increased in annual increments of 10% so that the minimum liquidity coverage ratio is 100% as of January 1, 2019. In December 2014, the Financial Services Commission promulgated regulations to implement the liquidity requirements of Basel III, including raising the minimum liquidity coverage ratio to 80% as of January 1, 2015 and thereafter by annual increments of 5% so that the minimum liquidity coverage ratio for commercial banks in Korea is 100% as of January 1, 2019.

A substantial part of the liquidity and funding requirements for our banking subsidiaries is met through short-term customer deposits, which typically roll over upon maturity. While the volume of our customer deposits has generally been stable over time, customer deposits have from time to time declined substantially due to the popularity of other, higher-yielding investment opportunities, namely stocks and mutual funds, for example, during times of bullish stock markets. During such times, our banking subsidiaries were required to obtain alternative funding at higher costs. There is no assurance that a similar development will not occur in the future. In addition, in recent years, we have faced increasing pricing competition from our competitors with respect to our deposit products. If we do not continue to offer competitive interest rates to our deposit customers, we may lose their business, which has traditionally provided a stable and low-cost source of funding. In addition, even if we are able to match our competitors' pricing, doing so may result in an increase in our funding costs, which may have an adverse impact on our results of operations.

We and our subsidiaries also raise funds in capital markets and borrow from other financial institutions, the cost of which depends on market rates and the general availability of credit and the terms of which may limit our ability to pay dividends, make acquisitions or subject us to other restrictive covenants. While we and our subsidiaries are not currently facing liquidity difficulties in any material respect, if we or our subsidiaries are unable to obtain the funding we need on terms commercially acceptable to us for an extended period of time for whatever reason, we may not be able to ensure our financial viability, meet regulatory requirements, implement our strategies or compete effectively.

Credit ratings affect the cost and other terms upon which we and our subsidiaries are able to obtain funding. Domestic and international rating agencies regularly evaluate us and our subsidiaries, and their ratings of our and our subsidiaries' long-term debt are based on a number of factors, including our financial strength as well as conditions affecting the financial services industry and the Korean economy in general. There can be no assurance that the rating agencies will maintain our current ratings or outlooks. There is no assurance that Shinhan Bank, Shinhan Card, any of our other major subsidiaries or our holding company will not experience a downgrade in their respective credit ratings and outlooks for reasons related to the general Korean economy or reasons specific to such entity. Any downgrades in the credit ratings and outlooks of us and our subsidiaries will likely increase our cost of funding, limit our access to capital markets and other borrowings, or require us to provide additional credit enhancement in financial transactions,

any of which could adversely affect our liquidity, net interest margins and profitability, and in turn, our business, financial condition and results of operations.

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Changes in interest rates, foreign exchange rates, bond and equity prices, and other market factors have affected and will continue to affect our business, results of operations and financial condition.

The most significant market risks we face are interest rate, foreign exchange and bond and equity price risks. Changes in interest rate levels, yield curves and spreads may affect the interest rate margin realized between lending and borrowing costs. Changes in foreign currency exchange rates, particularly in the Korean Won to U.S. Dollar exchange rates, affect the value of our assets and liabilities denominated in foreign currencies, the reported earnings of our non-Korean subsidiaries and income from foreign exchange dealings, and substantial and rapid fluctuations in exchange rates may cause difficulty in obtaining foreign currency-denominated financing in the international financial markets on commercial terms acceptable to us or at all. The performance of financial markets may affect bond and equity prices and, therefore, cause changes in the value of our investment and trading portfolios. While we have implemented risk management systems and risk thresholds to mitigate and control these and other market risks to which we are exposed, it is difficult to predict with accuracy changes in economic or market conditions and to anticipate the effects that such changes could have on our business, financial condition and results of operations.

Of particular importance is the change in the base and market interest rates. Since 2009, Korea, like many other countries, has experienced a low interest rate environment despite some marginal fluctuations, in part due to the Government's policy to stimulate the economy through active rate-lowering measures. Between 2009 and 2014, the base interest rate set by the Bank of Korea remained within the band between 2.00% and 3.25%. In an effort to support Korea's economy in light of the recent slowdown in Korea's growth and uncertain global economic prospects, the Bank of Korea reduced the base interest rate to 1.75% in March 2015, 1.50% in June 2015, and further reduced such rate to the historic low of 1.25% in June 2016. In November 2017, the Bank of Korea raised the base interest rate to 1.50%, marking the first time it increased the base interest rate since 2011, and further raised such rate to 1.75% in November 2018. Interest rate movements, in terms of magnitude and timing as well as their relative impact on our assets and liabilities, have a significant impact on our net interest margin and profitability, particularly with respect to our financial products that are sensitive to such movements. For example, if the interest rates applicable to our loans (which are recorded as assets) increase at a slower pace or by a thinner margin than the interest rates applicable to our deposits (which are recorded as liabilities), our net interest margin will shrink and our profitability will be negatively affected. In addition, the relative size and composition of our variable rate loans and deposits (as compared to our fixed rate loans and deposits) may also impact our net interest margin. Furthermore, the difference in the average repricing frequency of our interest-earning assets (primarily loans) compared to our interest-bearing liabilities (primarily deposits) may also impact our net interest margin. For example, since our deposits tend to have longer terms, on average, than those of our loans, our deposits are on average less sensitive to movements in the base interest rates on which our deposits and loans tend to be pegged, and therefore, a decrease in the base interest rates tends to decrease our net interest margin while an increase in the base interest rates tends to have the opposite effect. While we continually manage our assets and liabilities to minimize our exposure to interest rate volatility, such efforts by us may not mitigate the impact of interest rate volatility in a timely or effective manner, and our net interest margin, and in turn our financial condition and results of operations, could suffer significantly.

We cannot assure you when and to what extent the Government will in the future adjust the base interest rate, to which the market interest rate correlates. A decision to adjust the base interest rate is subject to many policy considerations as well as market factors, including the general economic cycle, inflationary levels, interest rates in other economies and foreign currency exchange rates, among others. In general, a decrease in interest rates adversely affects our interest income due to the different maturity structure for our assets and liabilities as discussed above. In contrast, if there were to be a significant or sustained increase in interest rates, all else being equal, such movement would lead to a decline in the value of traded debt securities and could also raise our funding costs, while reducing loan demand, especially among retail customers. Rising interest rates may therefore require us to re-balance our assets and liabilities in order to minimize the risk of potential mismatches in our asset liability management and to maintain

our profitability. In addition, rising interest rates may adversely affect the Korean economy and the financial condition of our corporate and retail borrowers, including holders of

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our credit cards, which in turn may lead to deterioration of asset quality for our credit portfolio. Since most of our retail and corporate loans bear interest at rates that adjust periodically based on prevailing market rates, a sustained increase in interest rates will increase the funding costs of our borrowers and may adversely affect their ability to make payments on their outstanding loans. See Item 5.A. Operating Results Interest Rates.

We may incur losses associated with our counterparty exposures.

We face the risk that counterparties will be unable to honor contractual obligations to us or our subsidiaries. These parties may default on their obligations to us or our subsidiaries due to bankruptcy, lack of liquidity, operational failure or other reasons. This risk may arise, for example, from entering into swaps or other derivative contracts under which counterparties have obligations to make payments to us or our subsidiaries or in executing currency or other trades that fail to settle at the required time due to non-delivery by the counterparty or systems failure by clearing agents, exchanges, clearing houses or other financial intermediaries. Any realization of counterparty risk may adversely affect our business, operations and financial condition.

Risks Relating to Our Banking Business***We have significant exposure to small- and medium-sized enterprises, and financial difficulties experienced by such enterprises may result in a deterioration of our asset quality.***

Our banking activities are conducted primarily through our wholly-owned subsidiary, Shinhan Bank. One of our core banking businesses has historically been and continues to be lending to small- and medium-sized enterprises (as defined in Item 4.B. Business Overview Our Principal Activities Corporate Banking Services Small- and Medium-sized Enterprises Banking). Shinhan Bank's loans (before allowance for loan losses and deferred loan origination costs and fees) to such enterprises amounted to ₩71,757 billion as of December 31, 2016, ₩78,556 billion as of December 31, 2017 and ₩84,972 billion as of December 31, 2018, representing 27.5%, 28.3% and 28.0%, respectively, of our total loan portfolio as of such dates.

Compared to loans to large corporations, which tend to be better capitalized and better able to weather business downturns, or loans to individuals and households, which tend to be secured with homes and with respect to which the borrowers are therefore less willing to default, loans to small- and medium-sized enterprises have historically had a relatively higher delinquency ratio. Many small- and medium-sized enterprises represent sole proprietorships or small businesses dependent on a relatively limited number of suppliers or customers and tend to be affected to a greater extent than large corporate borrowers by fluctuations in the Korean and global economy. In addition, small- and medium-sized enterprises often maintain less sophisticated financial records than large corporate borrowers. Therefore, it is generally more difficult for banks to judge the level of risk inherent in lending to such enterprises, as compared to large corporations. In addition, many small- and medium-sized enterprises are dependent on business relationships with large corporations in Korea, primarily as suppliers. Any difficulties encountered by those large corporations would likely hurt the liquidity and financial condition of related small- and medium-sized enterprises, including those to which we have exposure, also resulting in an impairment of their ability to repay loans. As large Korean corporations continue to expand into China, Southeast Asia and other countries with lower labor costs and other expenses by relocating their production plants and facilities to such countries, such development may have a material adverse impact on such small- and medium-sized enterprises.

Financial difficulties experienced by small- and medium-sized enterprises as a result of, among other things, recent economic difficulties in Korea and globally and aggressive marketing and intense competition among banks to lend to this segment in recent years, coupled with our efforts to counter asset quality deterioration through conservative lending policy, have led to a fluctuation in the asset quality of our loans to this segment. As of December 31, 2016,

2017 and 2018, Shinhan Bank's delinquent loans to small- and medium-sized enterprises were ~~₩362 billion~~, ~~₩303 billion~~ and ~~₩299 billion~~, respectively, representing delinquency ratios (net of charge-offs and loan sales) of 0.51%, 0.39% and 0.35% respectively. If the ongoing difficulties in the Korean or global economy were to continue or aggravate, the delinquency ratio for our loans to small- and medium-sized enterprises may rise.

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Of particular concern is our significant exposure to enterprises in the real estate and leasing and construction industries. As of December 31, 2018, Shinhan Bank had outstanding loans (before allowance for loan losses and deferred loan origination costs and fees) to enterprises in the real estate and leasing and construction industries (many of which are small- and medium-sized enterprises) of ₩25,454 billion and ₩3,009 billion, respectively, representing 10.1% and 1.2%, respectively, of its total loan portfolio as of such date. We also have other exposure to borrowers in these sectors of the Korean economy, including extending guarantees for the benefit of such companies and holding debt and equity securities issued by such companies. In addition, Shinhan Bank has exposure to borrowers in the shipbuilding and shipping industries, which have yet to stage a meaningful turnaround.

The enterprises in the real estate development and construction industries in Korea, which are heavily concentrated in the housing market, continue to experience difficulties amid slowing real estate demand despite a moderate recovery in recent years, largely due to a combination of factors including the Government's policy measures to stabilize the real estate market, oversupply of residential property, ongoing economic sluggishness in Korea and globally and the demographic changes in the Korean population. We also have limited exposure to real estate project financing, particularly by construction companies that have built residential units in provinces outside the metropolitan Seoul area, which have experienced a relatively low rate of pre-sales, the proceeds from which the construction companies primarily rely on as a key source for liquidity and cash flow.

Any of the foregoing developments may result in deterioration in the asset quality of our banking subsidiaries. See Item 4.B. Business Overview – Description of Assets and Liabilities – Credit Exposures to Companies in Workout and Recovery Proceedings. We have been taking active steps to curtail delinquency among our small- and medium-sized enterprise customers, including by way of strengthening loan application review processes and closely monitoring borrowers in troubled sectors. Despite such efforts, there is no assurance that the delinquency ratio for our loans to small- and medium-sized enterprises will not rise in the future, especially if the Korean economy were to face renewed difficulties and, as a result, the liquidity and cash flow of these borrowers deteriorate. A significant rise in the delinquency ratios among these borrowers would lead to increased charge-offs and higher provisioning and reduced interest and fee income, which would have a material adverse effect on our business, financial condition and results of operations.

A decline in the value of the collateral securing our loans or our inability to fully realize the collateral value may adversely affect our credit portfolio.

Most of our mortgage and home equity loans are secured by borrowers' homes, other real estate, other securities and guarantees (which are principally provided by the Government and other financial institutions), and a substantial portion of our corporate loans are also secured, including by real estate. As of December 31, 2018, the secured portion of Shinhan Bank's loans (before allowance for loan losses and deferred loan origination costs and fees) amounted to ₩112,236 billion, representing 48.7% of its total loans. No assurance can be given that the collateral value will not materially decline in the future. Shinhan Bank's general policy for mortgage and home equity loans is to lend up to 45% to 82% of the appraised value of the collateral, but subject to the maximum loan-to-value ratio, debt-to-income ratio and debt service ratio requirements for mortgage loans implemented by the Government, and to periodically re-appraise such collateral. In order to mitigate our loss in the event of a decrease in the value of collateral, we have made effort to increase the proportion of installment principal repayment-based loans and manage the loan-to-value ratio of loans. As of December 31, 2018, installment principal repayment-based housing loans accounted for 49.1% of the housing loans extended by Shinhan Bank, and the loan-to-value ratio of mortgage and home equity loans of Shinhan Bank was 49.9%. Despite these efforts however, if the real estate market in Korea experiences a downturn, the value of the collateral may fall below the outstanding principal balance of the underlying mortgage loans. Borrowers of such under-collateralized mortgages or loans may be forced to pay back all or a portion of such mortgage loans or, if unable to meet the collateral requirement through such repayment, sell the underlying collateral,

which sales may lead to a further decline in the price of real estate in general and set off a chain reaction for other borrowers due to the further decline in the value of collateral. Declines in real estate prices reduce the value of the collateral

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securing our mortgage and home equity loans, and such reduction in the value of collateral may result in our inability to cover the uncollectible portion of our secured loans. A decline in the value of the real estate or other collateral securing our loans, or our inability to obtain additional collateral in the event of such decline, may result in the deterioration of our asset quality and require us to make additional loan loss provisions. In Korea, foreclosure on collateral generally requires a written petition to a Korean court. Foreclosure procedures in Korea generally take 10 to 14 months from initiation to collection depending on the nature of the collateral, and foreclosure applications may be subject to delays and administrative requirements, which may result in a decrease in the recovery value of such collateral. No assurance can be given that we will be able to realize the full value of collateral as a result of, among others, delays in foreclosure proceedings, defects in the perfection of collateral and general declines in collateral value. Our failure to recover the expected value of collateral could expose us to significant losses.

Guarantees received in connection with our real estate financing may not provide sufficient coverage.

Primarily through Shinhan Bank, we, alone or together with other financial institutions, provide financing to real estate development projects, which are concentrated largely in the construction of residential complexes. Developers in Korea commonly use project financing to acquire land and pay for related project development costs. As a market practice, lenders in project financing, including Shinhan Bank, generally receive from general contractors a performance guarantee for the completion of projects by the developers as well as a payment guarantee for the loans raised by a special purpose financing vehicle established by the developers in order to procure the construction orders, as the developers tend to be small and highly leveraged. Shinhan Bank has actively managed and reduced its real estate project financing-related exposure, particularly during sustained downturns in the Korean real estate market. As of December 31, 2018, the total outstanding amount of Shinhan Bank's real estate project financing-related exposure was ₩2.2 trillion. However, if defaults were to significantly increase under our existing loans to real estate development projects and the general contractors fail to pay the guaranteed amount necessary to cover the amount of our financings, this may have an adverse effect on our business, financial condition and results of operations.

A limited portion of our credit exposure is concentrated in a relatively small number of large corporate borrowers, and future financial difficulties experienced by them may have an adverse impact on us.

Of Shinhan Bank's 10 largest corporate exposures as of December 31, 2018, two were companies for which Shinhan Bank was a main creditor bank. All of the 10 companies are or were members of the main debtor groups as identified by the Governor of the Financial Supervisory Service, which are mostly comprised of the largest Korean commercial conglomerates known as *chaebols*. As of such date, the total amount of Shinhan Bank's exposures to the 10 companies was ₩18,905 billion, or 11.1%, of its total exposures. As of that date, Shinhan Bank's single largest outstanding exposure to a main debtor group amounted to ₩4,239 billion, or 2.5%, of its total exposures. Largely due to the continued stagnation in the shipbuilding industry, current and former member companies of the STX Group, one of the leading conglomerates in Korea, entered into voluntary arrangements in 2013 with their creditors (including Shinhan Bank) to improve their credit situation, and STX Offshore & Shipbuilding and STX Heavy Industries, two of the STX Group's member companies, recently filed for court receivership in May 2016 and July 2016, respectively. Due to stagnation in the construction industry, Keangnam Enterprises Co., Ltd., a large construction company in Korea, also entered into workout proceedings in 2013 and subsequently filed for recovery proceedings in March 2015. Dongbu Steel Co., Ltd. and Sambu Construction Co., Ltd. also experienced significant hardship and entered into workout or recovery proceedings in 2015. Additionally, in October 2015, creditors of Daewoo Shipbuilding & Marine Engineering Co., Ltd., led by Korea Development Bank, announced a restructuring plan that included cash injection and additional loans totaling ₩4.2 trillion and extensive streamlining measures, and in November 2016, Korea Development Bank agreed to swap ₩1.8 trillion of debt to equity and the Export-Import Bank of Korea agreed to issue ₩1 trillion of perpetual bonds. Amid continued deterioration of Daewoo Shipbuilding & Marine Engineering Co., Ltd.'s financial conditions, in March 2017, Korea Development Bank and the Export-Import Bank of Korea

further agreed to provide an additional ₩2.9 trillion in loans and swap ₩1.6 trillion of debt to equity, provided that

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other creditors and bondholders agree to certain debt-to-equity swaps and extension of maturities. In January 2016, Hanjin Heavy Industries & Construction Co., Ltd. entered into voluntary restructuring agreements with its creditors due to liquidity shortage in the wake of prolonged industry slowdown. Partly as a result of its active past efforts to reduce exposure to the shipbuilding and construction sectors, Shinhan Bank currently has limited exposure to the aforementioned troubled companies. However, if the credit quality of Shinhan Bank's exposure to large corporations, including those in the main debtor groups, declines, Shinhan Bank may be required to record additional loan loss provisions in respect of loans and impairment losses in respect of securities, which would adversely affect its financial condition, results of operations and capital adequacy. No assurance can be given that the allowances it has established against these exposures will be sufficient to cover all future losses arising from such exposures, especially in the case of a prolonged or renewed economic downturn.

A limited number of the main debtor groups to which Shinhan Bank has credit exposure are subject to restructuring programs or are otherwise making significant efforts to improve their financial conditions, such as by obtaining intragroup loans and entering into agreements to further improve their capital structures. No assurance can be given that there will not be future restructuring with Shinhan Bank's major corporate customers or that such restructuring will not result in significant losses to Shinhan Bank with less than full recovery. In addition, if the Government decides to pursue an aggressive restructuring policy with respect to distressed companies, Korean commercial banks, including Shinhan Bank, may face a temporary rise in delinquencies and intensified pressure for additional provisioning. Furthermore, bankruptcies or financial difficulties of large corporations, including *chaebol* groups, may have an adverse ripple effect of triggering delinquencies and impairment of Shinhan Bank's loans to small- and medium-sized enterprises that supply parts or labor to such corporations. If Shinhan Bank experiences future losses from its exposure to large corporations, including *chaebol* groups, it may have a material adverse effect on Shinhan Bank's business, financial condition and results of operations. See Item 4.B. Business Overview Description of Assets and Liabilities Loans Loan Portfolio Exposure to Main Debtor Groups.

The asset quality of our retail loan portfolio may deteriorate.

In recent years, consumer debt, including lending to households and small unincorporated businesses, has continued to increase in Korea. Shinhan Bank's portfolio of retail loans is comprised of two principal product types, namely secured retail loans (which are primarily comprised of mortgage and home equity loans secured by real estate) and general purpose loans (which are unsecured loans and tend to carry a higher credit risk). As of December 31, 2018, Shinhan Bank's retail loan portfolio (before allowance for loan losses and deferred loan origination costs and fees) was ₩112,594 billion, representing 44.5% of its total loans outstanding. As of December 31, 2016, 2017 and 2018, Shinhan Bank's non-performing retail loans were ₩157 billion, ₩215 billion and ₩238 billion, respectively, representing non-performing loan ratios (net of charge-offs and loan sales) of 0.16%, 0.21% and 0.21%, respectively.

Our large exposure to consumer debt means that we are exposed to changes in economic conditions affecting Korean consumers. For example, a rise in unemployment, an increase in interest rates or a decline in housing prices in Korea could adversely affect the ability of consumers to make payments and increase the likelihood of potential defaults. Economic difficulties in Korea that hurt consumers could result in increasing delinquencies and a decline in the asset quality of the our household loan portfolio, which may in turn require us to record higher provisions for credit loss and charge-offs and may materially and adversely affect our financial condition and results of operations.

Any deterioration in the asset quality of our guarantees and acceptances will likely have a material adverse effect on our financial condition and results of operations.

In the normal course of banking activities, we make various commitments and incur certain contingent liabilities in the form of guarantees and acceptances. Financial guarantees, which are contracts that require us to make specified

payments to reimburse the beneficiary of the guarantee for a loss such beneficiary incurs because

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the debtor in respect of which the guarantee is given fails to make payments when due in accordance with the terms of the relevant debt instrument, are recognized initially at fair value, and such initial fair value is amortized over the life of the financial guarantee. Other guarantees are recorded as off-balance sheet items in the notes to our financial statements and those guarantees that we have confirmed to make payments are recorded on the statements of financial position. As of December 31, 2018, we had aggregate guarantees and acceptances of ₩15,522 billion, for which we provided allowances for losses of ₩105.5 billion. If there is significant deterioration in the quality of assets underlying our guarantees and acceptances, our allowances may be insufficient to cover actual losses resulting in respect of these liabilities.

Risks Relating to Our Credit Card Business

Future changes in market conditions as well as other factors, such as stricter regulation, may lead to reduced revenues and deterioration in the asset quality of credit card receivables.

As of December 31, 2016, 2017 and 2018, Shinhan Card's interest-earning credit card assets amounted to ₩22,765 billion, ₩25,250 billion and ₩28,311 billion, respectively. Our large exposure to credit card and other consumer debt means that we are exposed to changes in economic conditions affecting Korean consumers in general. For example, a rise in unemployment, an increase in interest rates, a downturn in the real estate market, or a general contraction or other difficulties affecting the Korean economy may lead Korean consumers to reduce spending (a substantial portion of which is conducted through credit card transactions), which in turn leads to reduced earnings for our credit card business, as well as to higher default rates on credit card loans, deterioration in the quality of our credit card assets and increased difficulties in recovering written-off assets from which a significant portion of Shinhan Card's revenues is derived. Any of these developments could have a material adverse effect on our business, financial condition and results of operations.

Increasing consumer and corporate spending and borrowing on our card products and growth in card lending balances depend in part on Shinhan Card's ability to develop and issue new or enhanced card and prepaid products and increase revenue from such products and services, as well as the level of discretionary income among our cardholders, which is largely affected by macroeconomic factors beyond our control. In addition, credit card companies in Korea, including Shinhan Card, may not be able to enjoy any rapid growth in revenue over the long term due to the maturing nature of the credit card industry, in part due to oversaturation of credit card service providers. Shinhan Card's future earnings and profitability also depend on its ability to attract new cardholders, reduce cardholder attrition, increase merchant coverage and capture a greater share of customers' total credit card spending in Korea and overseas. Shinhan Card may not be able to manage and expand cardholder benefits in a cost-effective manner or contain the growth of marketing, promotion and reward expenses to a commercially reasonable level. If Shinhan Card is not successful in increasing customer spending, maintaining or expanding its market position and asset growth, or containing costs or cardholder benefits, its financial condition, results of operations and cash flow could be negatively affected.

KT consortium's K-Bank and Kakao consortium's Kakao Bank commenced operations in April 2017 and July 2017, respectively. Internet-only banks are expected to become major competitors to Shinhan Card in various business areas, particularly in the mid-term interest loan market. In addition, with the rapid growth of online service providers and technology companies providing virtual payment services, more competitors are entering the financial payments industry, creating a new paradigm in the payments market and changing the competitive landscape. New competitors, including Kakao Corp., NAVER and Samsung Electronics, have introduced new payment methods which are now competing with Shinhan Card's payment model AppCard. In 2018, Kakao Bank launched its own credit card business, expanding its mid-range interest rate loan offerings and competing with the existing credit card service providers. Shinhan Card is currently making efforts to enhance its AppCard payment model and cooperating with other credit card service providers to promote its joint NFC (near field communication) payment network.

In addition, Government policies and regulations aimed at protecting small- and medium-sized enterprises, such as the reduction of fees chargeable to small- and medium-sized merchants, may have a material adverse

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effect on our revenues from Shinhan Card. In January 2012, the Government expanded the definition of a small- and medium-sized merchant to include those with annual sales of up to ₩200 million and, effective September 2012, lowered fees chargeable to such merchants from 1.8% to 1.5% with respect to credit cards. In January 2015, the Government further expanded the definition of a small- and medium-sized merchant to include those with annual sales of more than ₩200 million and up to ₩300 million, and imposed a cap on fees chargeable to such merchants at 2.0% with respect to credit cards. In November 2015, the Government announced a further reduction in the merchant fees chargeable to small- and medium-sized enterprises with respect to credit cards, effective January 31, 2016, from 2.0% to 1.3% for merchants with annual sales of more than ₩200 million and up to ₩300 million, and from 1.5% to 0.8% for merchants with annual sales of up to ₩200 million. In July 2017, the Enforcement Decree of the Specialized Credit Finance Business Act was amended to expand the range of small- and medium-sized enterprises subject to lower merchant fees. Upon the amendment, merchants with annual sales of more than ₩300 million and up to ₩500 million are subject to merchant fees chargeable with respect to credit cards of 1.3%, and merchants with annual sales of up to ₩300 million are subject to merchant fees chargeable with respect to credit cards of 0.8%. In January 2019, the government further expanded the definition of a small- and medium-sized merchant to include those with annual sales of more than ₩500 million and up to ₩3 billion. Upon the amendment, merchants with annual sales of more than ₩500 million and up to ₩1 billion are subject to merchant fees chargeable with respect to credit cards of 1.4%, and merchants with annual sales of more than ₩1 billion and up to ₩3 billion are subject to merchant fees chargeable with respect to credit cards of 1.6%. Pursuant to the Specialized Credit Financial Business Act, the rates of fees chargeable to merchants are subject to review and revision every three years, starting from 2012, and the rates of fees chargeable may be further adjusted due to changes in relevant regulations or Government policy. Additionally, during 2018, the Seoul metropolitan and other regional governments have launched Zero Pay, a government sponsored QR code-based mobile payment platform charging little to no transaction fees (up to 0.5% depending on volume of sales) and aimed at reducing transaction fees small businesses pay to credit card companies. The Financial Services Commission also announced its plans to establish an open banking system that would provide fintech firms access to banks payment systems at lower costs. Additional amendments to regulations requiring further downward adjustments to merchant fees or Government policies aimed at reducing transaction fees paid to credit card companies may be implemented in the future, placing further downward pressure on the results of operations for credit card companies, including Shinhan Card.

In 2013, the Government also implemented measures regulating marketing costs in order to control excessive marketing campaigns and curtail undue marketing expenses, which had the effect of impeding revenue growth for credit card companies but also reduced or slowed the growth in their marketing expenses. Effective December 2013, the Government also introduced guidelines to curb the interest rates that credit card companies, including Shinhan Card, may charge on card loans and cash advances. Furthermore, the Government also provides tax incentives, among others, for the use of check cards (where the amounts paid with check cards are instantly debited from the customer's bank accounts) to encourage the use of check cards in lieu of credit cards in an attempt to preempt a potential rise in delinquency among credit card users, and if check cards are widely used in lieu of credit cards, this would reduce interest income from credit cards, which generally have a longer repayment period than that of check cards, and may have an adverse impact on Shinhan Card's revenues and results of operations. On November 26, 2018, the Financial Services Commission introduced additional guidelines aimed at curtailing excessive marketing expenses for credit card companies, for example by limiting the benefits credit card companies may offer to large corporate credit card clients or merchants as well as requiring a reasonable level of annual service fees for credit card holders. Although these and similar Government initiatives and measures may result in a reduction in marketing expenses, which in turn may help reduce the overall expenses of our credit card business, there is no assurance that Government measures will achieve their intended results, and such measures may result in a decline in the volume of credit card transactions or otherwise adversely affect our business, financial condition and results of operations.

Table of Contents**Risks Relating to Our Other Businesses**

We may experience significant losses from our investments and, to a lesser extent, trading activities due to market fluctuations.

We enter into and maintain large investment positions in fixed income products, primarily through our treasury and investment operations. These activities are described in Item 4.B. Business Overview Our Principal Activities Other Banking Services. We also maintain smaller trading positions, including equity and equity-linked securities and derivative financial instruments as part of our operations. Taking these positions entails making assessments about financial market conditions and trends. The revenues and profits we derive from many of these positions and related transactions are dependent on market prices, which are beyond our control. When we own assets such as debt or equity securities, a decline in market prices, for example, as a result of fluctuating market interest rates or stock market indices, can expose us to trading and valuation losses. If market prices move in a way that we have not anticipated, we may experience losses. In addition, when markets are volatile and subject to rapid changes in price directions, actual market prices may be contrary to our assessments and lead to lower than anticipated revenues or profits, or even result in losses, with respect to the related transactions and positions.

We may generate losses from our brokerage and other commission- and fee-based business.

We, through our investment and other subsidiaries, currently provide, and seek to expand the offerings of, brokerage and other commission- and fee-based services. Downturns in stock markets typically lead to a decline in the volume of transactions that we execute for our customers and, therefore, a decline in our non-interest revenues. In addition, because the fees that we charge for managing our clients' portfolios are often based on the size of the assets under management, a downturn in the stock market, which has the effect of reducing the value of our clients' portfolios or increasing the amount of withdrawals, also generally reduces the fees we receive from our securities brokerage, trust account management and other asset management services. Even in the absence of a market downturn, below-market performance by our securities, trust account or asset management subsidiaries may result in increased withdrawals and reduced cash inflows, which would reduce the revenue we receive from these businesses. In addition, protracted declines in asset prices can reduce liquidity for assets held by us and lead to material losses if we cannot close out or otherwise dispose of deteriorating positions in a timely way or at commercially reasonable prices.

Prolonged periods of declining or low interest rates may reduce or turn negative our investment margin on savings insurance products and result in an increase in the valuation of our liabilities associated with these products.

We, principally through Shinhan Life Insurance, offer fixed rate insurance policies such as savings insurance products that include guaranteed benefits. These products expose us to the risk that changes in interest rates will reduce our investment margin, which is the difference between the amounts that we are required to pay under the contracts and the rate of return we earn on investments intended to support obligations under such contracts. During periods of declining or low interest rates, we may have to invest insurance cash flows and reinvest the cash flows we received as interest or return of principal on our investments in lower yielding instruments. In addition, during periods of declining or low interest rates, fixed rate policies may become relatively more attractive investments to consumers. This could result in an increase in payments we are required to pay on such products and higher percentage of such products remaining in-force from year to year, during a period when our new investments carry lower returns. During periods of sustained lower interest rates, our reserves for policy liabilities may not be sufficient to meet future policy obligations and may need to be strengthened.

Significantly lower or negative investment margins may cause us to accelerate amortization, thereby reducing net income in the affected reporting period and potentially negatively affecting our credit instrument covenants or rating

agency assessment of our financial condition. In addition, under IFRS 17, which is expected

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to become effective beginning 2022, insurance contract liabilities will be calculated in terms of market value (as the present value of future insurance cash flows with a provision for risk) instead of book value. As the discount rate will reflect current interest rates rather than book yields, we may have a significantly higher debt balance under IFRS 17 due to higher insurance liabilities, thereby resulting in a decrease in our risk-based capital.

We may fail to realize the anticipated benefits of and encounter significant risks in connection with mergers and acquisitions.

We continue to seek and evaluate opportunities for diversification and growth of our business, including through strategic acquisitions, and have experienced substantial growth through several mergers and acquisitions. Most notably, our acquisition of Chohung Bank in 2003 has enabled us to have the second largest banking operations in Korea. In addition, our acquisition in March 2007 of LG Card, the then largest credit card company in Korea, has enabled us to have the largest credit card operations in Korea and significantly expand our non-banking business capacity so as to achieve a balanced business portfolio. In September 2018, we announced the acquisition of a 59.15% interest in Orange Life Insurance, Ltd., the former Korean unit of ING Life Insurance, as part of our efforts to diversify and enhance our non-banking businesses. The acquisition was approved by the Financial Services Commission on January 16, 2019 and closed on February 1, 2019. In addition to Orange Life Insurance, Ltd., on October 31, 2018, we agreed to acquire Asia Trust Co., Ltd. in order to expand our real estate business capacity and have also acquired certain small-sized overseas financial service companies and asset management companies. We expect to integrate these and any future acquisitions with our existing businesses and generate synergies and expand our business capabilities. However, we may encounter significant risks, including difficulty in successfully integrating acquired businesses, increased expenses such as working capital requirements or capital expenditures, regulatory risks and financial risks such as potential liabilities of the businesses we acquire. In addition, evaluating potential acquisitions may require us to incur significant expenses or divert management's attention away from other business issues. As such, no assurance can be given that any completed or contemplated acquisitions will not have a negative effect on our business, financial condition and results of operations that outweigh any potential benefits.

Other Risks Relating to Us as the Holding Company

Our ability to continue to pay dividends and service debt will depend on the level of profits and cash flows of our subsidiaries.

We are a financial holding company with minimal operating assets other than the shares of our subsidiaries. Our primary source of funding and cash flow is dividends from, or disposition of our interests in, our subsidiaries or our cash resources, most of which are currently the result of borrowings. Since our principal assets are the outstanding capital stock of our subsidiaries, our ability to pay dividends on our common and preferred shares and service debt will mainly depend on the dividend payments from our subsidiaries.

Companies in Korea are subject to certain legal and regulatory restrictions with respect to payment of dividends. For example, under the Korean Commercial Code, dividends may only be paid out of distributable income, which is calculated by subtracting the aggregate amount of a company's paid-in capital and certain mandatory legal reserves from its net assets, in each case as of the end of the prior fiscal year. In addition, financial companies in Korea, including banks, credit card companies, securities companies and life insurers, such as our subsidiaries, must meet minimum capital requirements and capital adequacy ratios applicable to their respective industries before dividends can be paid. For example, under the Banking Act of 1950, as amended (the Banking Act), a bank is required to credit at least 10% of its net profit to a legal reserve each time it pays dividends on distributable income until such time when this reserve equals the amount of its total paid-in capital, and under the Banking Act, the Specialized Credit Financial Business Act and the regulations promulgated by the Financial Services Commission, if a bank or a credit

card company fails to meet its required capital adequacy ratio or is otherwise subject to the management improvement measures imposed by the Financial Services Commission, then the Financial Services Commission may restrict the declaration and payment of dividend by such a bank or credit card company. In addition, if our or our subsidiaries capital adequacy ratios fall below the required levels, our ability to pay dividends may be restricted by the Financial Services Commission.

Table of Contents***Damage to our reputation could harm our business.***

We are one of the largest and most influential financial institutions in Korea by virtue of our financial track records, market share and the size of our operations and customer base. Our reputation is critical to maintaining our relationships with clients, investors, regulators and the general public. Our reputation can be damaged in numerous ways, including, among others, employee misconduct (including embezzlement), cyber or other security breaches, litigation, compliance failures, corporate governance issues, failure to properly address potential conflicts of interest, the activities of customers and counterparties over which we have limited or no control, prolonged or exacting scrutiny from regulatory authorities and customers regarding our trade practices, or uncertainty about our financial soundness and our reliability. If we are unable to prevent or properly address these concerns, we could lose our existing or prospective customers and investors, which could adversely affect our business, financial condition and results of operations.

Our risk management policies and procedures may not be fully effective at all times.

In the course of our operations, we must manage a number of risks, such as credit risks, market risks and operational risks. We seek to monitor and manage our risk exposures through a comprehensive risk management platform, encompassing centralized risk management organization and credit evaluation systems, reporting and monitoring systems, early warning systems and other risk management infrastructure, using a variety of risk management strategies and techniques. See Item 4.B. Business Overview Risk Management. Although we devote significant resources to developing and improving our risk management policies and procedures and expect to continue to do so in the future, our risk management practices may not be fully effective at all times in eliminating or mitigating risk exposures in all market environments or against all types of risk, including risks that are unidentified or unanticipated. For example, in the past, a limited number of our and our subsidiaries' personnel engaged in embezzlement of substantial amounts for an extended period of time before such activities were detected by our risk management systems. In response to these incidents, we have strengthened our internal control procedures by, among others, implementing a real-time monitoring system, but there is no assurance that such measures will be sufficient to prevent similar employee misconducts in the future. Management of credit, market and operational risk requires, among others, policies and procedures to record properly and verify a large number of transactions and events, and we cannot assure you that these policies and procedures will prove to be fully effective at all times against all the risks we face.

We may experience disruptions, delays and other difficulties relating to our information technology systems.

We rely on our information technology systems to seamlessly provide our wide-ranging financial services as well as for our daily operations, including billing, online and offline financial transactions settlement and record keeping. We continually upgrade, and make substantial expenditures to upgrade, our group-wide information technology system, including in relation to customer data-sharing and other customer relations management systems, particularly in light of the heightened cyber security risks from advances in technology. Despite our best efforts, however, we may experience disruptions, delays, cyber or other security breaches or other difficulties relating to our information technology systems, and may not timely upgrade our systems as currently planned. Any of these developments may have an adverse effect on our business, particularly if our customers perceive us to not be providing the best-in-class cyber security systems and failing to timely and fully rectify any glitches in our information technology systems.

Our activities are subject to cyber security risk.

Our activities have been, and will continue to be, subject to an increasing risk of cyber-attacks, the nature of which is continually evolving. Cyber security risks include unauthorized access, through system-wide hacking or other means, to privileged and sensitive customer information, including passwords and account information, and illegal use

thereof. Cyber security risk is generally on the rise as a growing number of our customers increasingly rely on our Internet- and mobile phone-based banking services for various types of financial

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transactions. While we vigilantly protect customer data through encryption and other security programs and have made substantial investments to build and upgrade our systems and defenses to address the growing threats from cyber-attacks, there is no assurance that such data will not be subject to future security breaches. In addition, there can be no assurance that we will not experience a leakage of customer information or other security breaches as a result of illegal activities by our employees, outside consultants or hackers, or otherwise.

For example, in March 2013, we experienced a temporary interruption in providing online financial services due to large-scale cyber-attacks by unidentified sources on the security systems of major broadcasting networks and financial institutions in Korea. The interruption of our online financial services lasted approximately 90 minutes, after which our online system resumed without further malfunction. The Financial Supervisory Service conducted an investigation into the incident and found that Shinhan Bank and Jeju Bank had not properly maintained their information technology administrator accounts and vaccine servers. As a result, in December 2013, the Financial Supervisory Service notified Shinhan Bank and Jeju Bank of an institutional caution (which does not give rise to significant sanctions unlike in the case of repeated institutional warnings) and imposed disciplinary actions against five of Shinhan Bank's employees and three of Jeju Bank's employees. We do not believe such incident resulted in any material loss or leakage of customer information or other sensitive data.

Major financial institutions in Korea and around the world have also fallen victim to large-scale data leakage in the past. In December 2013, it was reported that there was a leakage of personal information of approximately 130,000 customers of Standard Chartered Bank and Citibank in Korea, which leakage was attributed to a third party sub-contractor in the case of Standard Chartered Bank, and an employee in the case of Citibank. In addition, in January 2014, it was reported that there was a leakage of personal information of approximately 100 million customers of NH Card, Lotte Card and KB Card in Korea due to illegal access to such information by an employee of a third party credit information company in the course of developing information technology programs for these three credit card companies. In 2017, Equifax Inc., a U.S. credit reporting company, was reported to have suffered a breach of personal information of over 143 million people.

Other than the cyber security attack in March 2013 as discussed above, we have not experienced any material security breaches in the past, including any similar large scale leakage of customer information. In order to minimize the risk of security breaches related to customer and our other proprietary information, we have taken a series of group-wide preventive measures, such as the adoption and implementation of a best-in-class information security system and reinforcement of internal control measures. We are fully committed to maintaining the highest standards of cyber security and consumer protection measures and upgrading them continually. We have implemented the ISO 27001-certified security management system for us and all our subsidiaries, and we have obtained the Information Security Management System certification for most of our subsidiaries. Our Integrated Security Control Center's security management system enables us to continuously monitor for signs of potential cyber-attacks and provides us with advance warnings that will allow us to promptly respond to such attacks. We believe such certifications represent third-party validations that we are in compliance with best-in-class international standards on matters of information security. Our security management system continuously monitors for signs of potential cyber-attacks and is designed to provide early warning alerts to enable prompt action by us. In order to prevent intentional and accidental security issues by our employees, we have created a violation monitoring system, reinforcing our security measures by preemptively identifying various scenarios of threats and by collecting and analyzing different types of data that allows us to quickly identify any potential security violations. Moreover, we established a new information security lab to build a continuous security research and development system to respond to hacking and other cyber threats. Through these measures, we are developing technical capabilities necessary to respond to the latest security threats. We also provide intensive employee training to our information technology staff and other employees on cyber security and have adopted advanced security infrastructure (including through hiring a highly competent team of information security experts) for online financial services such as mandatory website certification and keyboard

security functions. In addition, reviews of our system are conducted, across all of our subsidiaries, through periodic audits and simulation reviews by external experts. In addition, in compliance with applicable regulations we currently carry insurance to cover cyber security breaches up to ₩10 billion in relation to our banking

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business and up to ₩3 billion in the aggregate and up to ₩1 billion per incident for our securities investment business and have set aside a reserve of ₩1 billion for our credit card business. In addition, in light of the growing use of mobile devices to access financial services, we have implemented security measures (including encryptions and service terminal monitoring) to provide a secure mobile banking service as well as to prevent illegal leakage or sharing of customer data and otherwise enhance customer privacy. We are also keenly aware of the litigation and regulatory sanctions risks that may arise from security breaches and are aggressively reinforcing a group-wide culture that stresses safety and good custodianship as among our highest priorities. Furthermore, we are actively taking steps to implement preventive and other steps recommended or required by the regulatory authorities in relation to actual and potential financial scams. However, given the unpredictable and continually evolving nature of cyber security threats due to advances in technology or other reasons, there is no assurance that, notwithstanding our best efforts at maintaining the best-in-class cyber security systems, we will not be vulnerable to major cyber security attacks in the future.

The public is developing heightened awareness about the importance of keeping their personal data private, and the financial regulators are placing greater emphasis on data protection by financial service providers. For example, under the Personal Information Protection Act, as last amended in October 2017, financial institutions, as personal information manager, may not collect, store, maintain, utilize or provide resident registration numbers of their customers, unless other laws or regulations specifically request or permit the management of resident registration numbers. Further, under the Use and Protection of Credit Information Act, as last amended in December 2018, a financial institution has a higher duty to protect credit information, meaning information necessary to assess the creditworthiness of the counterparty to financial transactions and other commercial transactions. Such regulations have considerably restricted a financial institution's ability to transfer or provide the information to its affiliate or holding company, and treble damages can be imposed on a financial institution for a leakage of such information. In addition, under the Electronic Financial Transaction Act, as last amended in April 2017 with effect from October 2017, a financial institution is primarily responsible for compensating its customers harmed by the financial institution's cyber security breach, even if the breach is not directly attributable to the financial institution. We maintain an integrated system that closely monitors customer information to ensure compliance with data protection laws and regulations.

If a cyber or other security breach were to happen with respect to us or any of our subsidiaries, it may result in litigation by affected customers or other third parties (including class actions), compensation for any losses suffered by victims of cyber security attacks, reputational damage, loss of customers, heightened regulatory scrutiny and related sanctions, more stringent compliance with the present and future regulatory restrictions, and other costs related to damage control, reparation and reinforcement of information security systems, any of which may have a material adverse effect on our business, results of operations and financial condition.

Our customers may become victims to voice phishing or other financial scams, for which we may be required to make monetary compensation and suffer damage to our business and reputation.

In recent years, financial scams known as voice phishing have been on the rise in Korea. While voice phishing takes many forms and has evolved over time in terms of sophistication, it typically involves the scammer making a phone call to a victim under false pretenses (for example, the scammer pretending to be a member of law enforcement, an employee of a financial institution or even an abductor of the victim's child) and luring the victim to transfer money to an untraceable account controlled by the scammer. More recently, voice phishing has increasingly taken the form of the scammer hacking or otherwise wrongfully obtaining personal financial information of the victim (such as credit card numbers or Internet banking login information) over the telephone or other means and illegally using such information to obtain credit card loans or cash advances through automated telephone banking or Internet banking. Reportedly, a substantial number of such scammers belong to international criminal syndicates with bases overseas,

such as China, with operatives in Korea.

In response to the growing incidents of voice phishing, regulatory authorities have undertaken a number of steps to protect consumers against voice phishing and other financial scams. There is no assurance, however, that

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the regulatory activities will have the desired effect of substantially eradicating or even containing the incidents of voice phishing or other financial scams. For example, following an investigation in November and December 2011 of major credit card companies, including Shinhan Card, as to their compliance with regulations on card loan-related voice phishing and the scope of damage suffered by customers as a result of voice phishing, the Financial Supervisory Service issued a number of guidelines for credit companies to comply with in order to minimize damage from voice phishing, including, among others, (i) strengthening identity verification procedures for card loan applications that are made online or through the automated response system, (ii) delaying the timing of loan payout by a few hours following the approval of card loan application, and (iii) giving an option to customers to block card loan applications. In May 2012, Shinhan Card completed all necessary steps to fully comply with these additional guidelines and has been in full compliance since then.

Although the financial institutions are often not legally at fault for the damage suffered by victims of voice phishing, the compensation scheme was adopted largely in consideration of social responsibility among financial institutions and that the financial institutions were not required to, and therefore in many instances did not, confirm the personal identity of the card loan or cash advance applicants prior to the adoption of such scheme. On December 8, 2011, Shinhan Card began implementing a mandatory outcall procedure to verify the personal identity of applicants for card loans and cash advances if not requested in person. In January 2012, financial institutions, the Financial Supervisory Service, the police and other related institutions formed a joint committee to prevent voice phishing incidents and implemented preventive measures such as enforcing a 10 minute delay for withdrawal of credit card loans of ₩3 million or more from an automated teller machine. In addition, Shinhan Card and our other subsidiaries have established a fraud detection system that identifies any questionable transactions based on deviations from a customer's conventional transaction patterns.

Partly as a result of these efforts, Shinhan Card did not receive any claims in 2018 in relation to voice phishing. Accordingly, we do not believe that any currently outstanding claims in relation to voice phishing will have a material adverse impact on our business, financial condition or results of operations. Additionally, other than voice phishing incidents and the recent cyber security attacks as discussed above, we have not experienced any material security breaches in the past. However, given continual advances in technology and the increasing sophistication of the financial scammers, there is no assurance that we will be able to prevent future financial scams or that the frequency and scope of financial scams will not rise. If financial scams involving us and our subsidiaries were to continue or to become more prevalent, it may result in compensation for any losses suffered by victims thereof, reputational damage, loss of customers, heightened regulatory scrutiny and related sanctions, compliance with the present and future regulatory restrictions, and other costs related to damage control, reparation and reinforcement of our preventive measures, any of which may have a material adverse effect on our business, results of operations and financial condition.

Legal claims and regulatory risks arise in the conduct of our business.

In the ordinary course of our business, we are subject to regulatory oversight and potential legal and administrative liability risk. We are also subject to a variety of other claims, disputes, legal proceedings and government investigations in Korea and other jurisdictions where we are active. See Item 8.A. Consolidated Statements and Other Financial Information – Legal Proceedings. These types of proceedings may expose us to substantial monetary and/or reputational damages and legal defense costs, injunctive relief, criminal and civil penalties and the potential for regulatory restrictions on our businesses. The outcome of these matters cannot be predicted and they could adversely affect our future business.

While we plan to rigorously defend our positions in the lawsuits or other regulatory proceedings against us, it is difficult to predict the final outcome of such cases. The total amount in dispute may increase during the course of

litigation and other lawsuits may be brought against us based on similar allegations. Accordingly, these lawsuits and other proceedings may have a material adverse effect on our business, financial condition and results of operations.

Table of Contents**Risks Relating to Law, Regulation and Government Policy**

We are a heavily regulated entity and operate in a legal and regulatory environment that is subject to change, and violations could result in penalties and other regulatory actions.

As a financial services provider, we are subject to a number of regulations that are designed to maintain the safety and soundness of Korea's financial system, to ensure our compliance with economic and other obligations and to limit our risk exposure. These regulations may limit our activities, and changes in these regulations may increase our costs of doing business. Regulatory agencies frequently review regulations relating to our business and implement new regulatory measures, including increasing the minimum required provisioning levels or capital adequacy ratios applicable to us and our subsidiaries from time to time. We expect the regulatory environment in which we operate to continue to change. Changes in regulations applicable to us, our subsidiaries and our or their business or changes in the implementation or interpretation of such regulations could affect us and our subsidiaries in unpredictable ways and could adversely affect our business, results of operations and financial condition.

Upon implementation of the Government-proposed Financial Consumer Protection Act (currently pending at the National Assembly's subcommittee for review of the bill), banks as financial instrument distributors will be subject to heightened investor and consumer protection measures, including stricter distribution guidelines, improved financial dispute resolution system, increased liability for damages borne by direct financial instrument distributors and newly imposed penalty surcharges. We may also become subject to other restrictions on our operations as a result of future changes in laws and regulations, including more stringent liquidity and capital requirements under Basel III, which are being adopted in phases in Korea in consideration of, among others, the pace and scope of international adoption of such requirements. Any of these regulatory developments may have a material adverse effect on our ability to expand operations or adequately manage our risks and liabilities. For further details on the principal laws and regulations applicable to us as a holding company and our principal subsidiaries, see Item 4.B. Business Overview – Supervision and Regulation.

In addition, violations of law and regulations could expose us to significant liabilities and sanctions. For example, the Financial Supervisory Service conducts periodic audits on us and, from time to time, we have received institutional warnings from the Financial Supervisory Service. If the Financial Supervisory Service determines as part of such audit or otherwise that our financial condition, including the financial conditions of our operating subsidiaries, is unsound or that we have violated applicable law or regulations, including Financial Services Commission orders, or if we or our operating subsidiaries fail to meet the applicable requisite capital ratio or the capital adequacy ratio, as the case may be, set forth under Korean law, the Financial Supervisory Service may ask the Financial Services Commission to order, among other things, cancellations of authorization, permission or registration of the business, suspensions of a part or all of the business, closures of branch offices, recommendations for dismissal of officers or suspensions of officers from performing their duties, or may order, among other things, institutional warnings, institutional cautions, reprimanding warnings on officers, cautionary warnings on officers or cautions on officers. From time to time, our subsidiaries, including Shinhan Bank and Shinhan Card, have been subject to investigations and/or sanctions from the Financial Supervisory Service. See Item 8.A. Consolidated Statements and Other Financial Information – Legal Proceedings. If any such measures are imposed on us or our subsidiaries as a result of unsound financial condition or failure to comply with minimum capital adequacy requirements or for other reasons, it will have a material adverse effect on us and our subsidiaries' business, financial condition and results of operations.

The Government may encourage targeted lending to certain sectors in furtherance of policy objectives, and we may take this factor into account.

The Government has encouraged and may in the future encourage targeted lending to certain types of enterprises and individuals in furtherance of government initiatives. The Government, through its regulatory bodies such as the Financial Services Commission, from time to time announces lending policies to encourage Korean banks and financial institutions, including us and our subsidiaries, to lend to particular industries,

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business groups or customer segments, and, in certain cases, has provided lower cost funding through loans made by the Bank of Korea for further lending to specific customer segments.

For example, the Government has taken and is taking various initiatives to support small- and medium-sized enterprises and low-income individuals, who were disproportionately affected by the downturn in the Korean and global economy in the late 2000s and have yet to fully recover. As part of these initiatives, the Financial Supervisory Service has recently encouraged banks in Korea to increase lending to small- and medium-sized enterprises in order to ease the financial burden on such enterprises amid sluggish economic recovery, and in February 2016, the Bank of Korea announced that it would increase support for loans to small- and medium-sized enterprises in anticipation of growing liquidity difficulties among such enterprises in light of the sustained sluggishness of the general economy and to stimulate trade exports, infrastructure investments and entrepreneurial efforts. The financial regulators have also adopted several measures designed to improve certain lending practices of the commercial banks which practices were perceived as having an unduly prohibitive effect on extending loans to small- to medium-sized enterprises.

In addition, as a way of supporting the Government's initiative to assist promising startups, in February 2015, the financial regulators announced that they would encourage the banks in Korea to increase lending to technology companies in the small- to medium-sized enterprise segment by an annual target of ₩20 trillion and to enhance technology-related credit review capabilities. Pursuant to these initiatives, the total lending to technology companies in the small- to medium-sized enterprise segment, on a cumulative basis, reached ₩58.4 trillion in 2016, ₩82.0 trillion in 2017 and ₩97.0 trillion in 2018. As of December 31, 2018, Shinhan Bank's total lending to technology companies reached, on a cumulative basis, ₩15.3 trillion.

Furthermore, in response to an increasing level of consumer debt and amid concerns over the debt-servicing capacity of retail borrowers if interest rates were to rise, the Financial Services Commission announced in February 2014 that it plans to increase the proportion of fixed interest rate loans and installment principal repayment-based loans within the total housing loans extended by commercial banks (which loans have historically been, for the most part, variable interest rate loans with the entire principal being repaid at maturity, which is usually rolled over on an annual basis). According to this plan, the target proportion for fixed interest rate loans was set at 35%, 37.5% and 40% and the target proportion for installment principal repayment-based housing loans was set at 35%, 40% and 45%, each by the end of 2015, 2016 and 2017, respectively. Amid concerns about increasing household debt, in May 2016 the target proportion for fixed interest rate loans and installment principal repayment-based housing loans for 2016 were increased to 40% and 45%, respectively, and in February 2017 the target proportion for fixed interest rate loans and installment principal repayment-based housing loans for 2017 were increased to 45% and 55%, respectively. In April 2018, the Financial Services Commission announced that the target proportion for fixed interest rate loans for 2018 would be set at 47.5%. In addition, an expanded tax deduction limit for interest repayment is granted for loans with maturity of 10 years or more (compared to 15 years or more prior to this plan). The Financial Services Commission announced that it would examine whether banks meet their targets on an annual basis.

In furtherance of the policy to expand the proportion of fixed rate housing loans, the Financial Services Commission implemented Relief Debt Conversion program from March 24 to March 27, 2015 and from March 30 to April 3, 2015, respectively, under which borrowers of eligible housing loans (namely, loans that have been in existence for one year or more since the original loan date, with no delinquency in the past six months, with principal amounts of ₩500 million or less and for houses valued at ₩900 million or less that are on a floating rate basis and/or an interest payment only basis) might convert such loans to new fixed rate loans in respect of which the borrowers would be required to repay the principal and interest in installment for a term of 10, 15, 20 or 30 years without a grace period, provided that the new loans pass the maximum loan-to-value ratio of 70% (irrespective of the location of the property) and the maximum debt-to-income ratio of 60% (only in respect of apartment units located in the greater Seoul metropolitan area, subject to certain exceptions). The borrowers were allowed to convert the original loans only at the

banks that extended such loans. The banks holding the newly converted fixed rate loans are required to sell such loans to Korea Housing Finance

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Corporation, a government-controlled entity, which will then securitize such loans and issue mortgage-backed securities (backed by such loans) to be purchased by the banks who sold the loans in proportion to the amounts of the loans sold, and the banks will be required to hold such securities for a period of one year, after which the bank can sell or dispose of such securities in the market or otherwise. According to the Financial Services Commission, under this program, approximately 327,000 borrowers converted loans in the aggregate amount of ₩31.7 trillion to fixed rate loans, of which Shinhan Bank accounted for approximately 13.5%. Due in large part to such initiatives, fixed interest rate loans and installment principal repayment-based loans accounted for 44.2% and 51.0%, respectively, of the total housing loans extended by commercial banks in Korea as of June 30, 2018, according to data published by the Government in December 2018. Fixed interest rate and installment principal repayment-based housing loans accounted for 43.8% and 49.1%, respectively, of the housing loans extended by Shinhan Bank as of December 31, 2018.

In the event that market interest rates increase from those applicable during this program's implementation in March and April 2015, we may experience valuation or realization losses on the mortgage-backed securities to be held by Shinhan Bank. Due to the prevailing interest rate environment and other market conditions, we also may not be able to sell or otherwise dispose of the mortgage backed securities in the market or otherwise in amounts or at prices commercially reasonable to us. In addition, as a result of this program we may incur additional costs from recalibrating our asset portfolio and asset-liability management policy. Any of these developments could adversely affect our results of operations and financial condition.

We, on a voluntary basis, may factor the existence of the Government's policies and encouragements into consideration in making loans although the ultimate decision whether to make loans remains with us and is made based on our internal credit approval procedures and risk management systems independently of Government policies. In addition, in tandem with providing additional loans to small- and medium-sized enterprises and low-income individuals, Shinhan Bank takes active steps to mitigate the potential adverse impacts from making bad loans to enterprises or individuals with high risk profiles as a result of such arrangement, such as by strengthening its loan review and post-lending monitoring processes. However, we cannot assure you that such arrangement did not or will not, or similar or other government-led initiatives in the future will not, result in a suboptimal allocation of our loan portfolio from a risk-reward perspective compared to what we would have allocated based on purely commercial decisions in the absence of such initiatives. The Government may implement similar or other initiatives in the future to spur the overall economy or encourage the growth of targeted industries or relief to certain segments of the population. Specifically, the Government may introduce lending-related initiatives or enforce existing ones in a heightened fashion during times when small- and medium-sized enterprises or low-income households on average are facing an increased level of financial distress or vulnerability due to an economic downturn, which makes lending to them in the volume and the manner suggested by the Government even riskier and less commercially desirable. Accordingly, such policy-driven lending may create enhanced difficulties for us in terms of risk management, deterioration of our asset quality and reduced earnings, compared to what would have been in the absence of such initiatives, which may have an adverse effect on our business, financial condition and results of operations.

The Government may also encourage investments in certain institutions in furtherance of policy objectives, and we may not recoup our investments therein in a timely or otherwise commercially reasonable manner.

In addition to targeted lending, the Government may from time to time encourage or request the financial institutions in Korea, including us and our subsidiaries, to make investments in, or provide other forms of financial support to, certain institutions in furtherance of the Government's policy objectives. In response thereto, we have made and will continue to make the ultimate decision on whether, how and to what extent we will comply with such encouragements or requests based on our internal risk assessment and in accordance with our risk management systems and policies. At the same time, as a leading member of the financial service industry in Korea and as a responsible corporate citizen

we will also fully give due consideration to such encouragements or requests from the Government, especially in relation to the long-term benefit arising from furthering the policy objective of maintaining a sound financial system, even if complying with such requests may involve additional short-term costs and risks to a limited extent.

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For example, to deal with a growing number of non-performing loans in the wake of the global financial crisis of 2008-2009, the Government sponsored the establishment of United Asset Management Company Ltd. (UAMCO) in October 2009 through capital contributions from six major policy and commercial banks, namely Shinhan Bank, Kookmin Bank, KEB Hana Bank, Industrial Bank of Korea, Woori Bank and Nonghyup Bank. The Government originally planned to dispose of UAMCO during 2015 and establish a new company that specializes in corporate restructuring, but the Government scrapped such plans and instead decided to reorganize UAMCO and expand its restructuring business. As part of an effort to strengthen its balance sheet, UAMCO received additional capital contributions in May 2016 from two new shareholders, Korea Development Bank and the Export-Import Bank of Korea, and two of its existing shareholders, Woori Bank and Nonghyup Bank. Shinhan Bank has committed to contribute ₩175 billion of capital to UAMCO, of which ₩85 billion has been contributed to date. As of the date hereof, Shinhan Bank holds a 14% equity interest in UAMCO, while seven other policy and commercial banks each hold interests ranging from 2% to 14%.

UAMCO seeks to achieve financial improvement of struggling companies through a wide range of restructuring programs, including debt restructuring, capital injection, asset sales, corporate reorganization, workouts and liquidation and bankruptcy proceedings and is the largest purchaser in Korea of non-performing financial assets generally. Shinhan Bank sold non-performing assets to UAMCO in the amount of ₩103.5 billion, ₩118.2 billion and ₩131.7 billion in 2016, 2017 and 2018, respectively. With an enlarged capital base following the recent capital contributions mentioned above, it is expected that UAMCO will play a more active role in the restructuring of the Korean corporate sector. The Government is also considering an amendment of the Financial Investment Services and Capital Markets Act of Korea to facilitate the business activities of UAMCO.

If UAMCO is successful in its expanded restructuring activities, it is anticipated that financial institutions including us will be able to further enhance their financial soundness by transferring more non-performing loans to UAMCO rather than directly engaging in the restructuring activities of the troubled borrowers. However, Shinhan Bank or other banks may be requested by the Government to make additional capital contributions or loans to UAMCO, which may entail unanticipated costs. Additionally, given the generally poor quality of our non-performing assets, there is no assurance that we will be able to sell such assets held by us to UAMCO on commercially reasonable terms and on a timely basis. Furthermore, there is no assurance that in furtherance of similar or other policy objectives, the Government may not request or otherwise encourage us or our subsidiaries to provide similar or other investments or provide other financial support for which we are not duly compensated or otherwise take up additional risk that we would not normally have undertaken, which may have an adverse effect on our business, financial condition and results of operations.

The level and scope of government oversight of our retail lending business, particularly regarding mortgage and home equity loans, may change depending on the economic or political climate.

Real estate comprises the most significant asset for a substantial number of households in Korea, and movements of housing prices have generally had a significant impact on the domestic economy. Accordingly, regulating housing prices, either in terms of attempting to stem actual or anticipated excessive speculation during times of a suspected housing price bubble and spur the pricing and/or volume of real estate transactions during times of a depressed real estate market by way of tax subsidy, guidelines to lending institutions or otherwise, has been a key policy initiative for the Government.

For example, during the early to mid-2000s, the Government adopted several regulatory measures, including in relation to retail banking, to stem a rise in speculation in real estate investments generally and in select areas. Some of the measures undertaken in the past include requiring financial institutions to impose stricter debt-to-income ratio and loan-to-value ratio requirements for mortgage loans for real property located in areas deemed to have engaged in a high level of speculation, raising property tax on real estate transactions for owners of multiple residential units,

adopting a ceiling on the sale price of newly constructed housing units and recommending that commercial banks restrain from making further mortgage and home equity lending, among

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others. In addition, amid a prolonged slump in the housing market in Korea, in April 2013, the Government announced a real estate comprehensive countermeasure, which provides, among other things, for (i) reduced capital gains tax and (ii) exemption of acquisition tax for first-time homebuyers. In addition, in November 2013, the Government announced a permanent reduction in acquisition tax, with retrospective application from August 2013. Prior to such reduction, acquisition tax was assessed on a differentiated scale based on whether the homebuyer was purchasing a primary home or a secondary home, with the former being assessed an acquisition tax of 2% for the purchase of homes under ₩900 million and 4% for homes exceeding ₩900 million, and the latter being assessed an acquisition tax of 4% regardless of the price of the home. Under the new regulatory structure, the differentiated tax scale for primary homes and secondary homes is eliminated, and all homebuyers are assessed an acquisition tax of 1% for the purchase of homes under ₩600 million, 2% for homes exceeding ₩600 million but less than ₩900 million and 3% for homes exceeding ₩900 million. Furthermore, in February 2014, the Financial Services Commission announced plans to increase the proportion of fixed interest rate loans and installment principal repayment-based loans within the total housing loans extended by commercial banks. See The Government may encourage targeted lending to certain sectors in furtherance of policy objectives, and we may take this factor into account. In addition, in order to rationalize the regulations on the housing loans, the Financial Services Commission and the Financial Supervisory Service provided administrative instructions in July 2014 with effect from August 1, 2014, which have been extended and amended several times, that all financial institutions including banks under the Banking Act are subject to the maximum loan-to-value ratio of 70% (irrespective of the location of the property, subject to certain exceptions) and the maximum debt-to-income ratio of 60% (only in respect of apartment units located in the greater Seoul metropolitan area, subject to certain exceptions). The above administrative instructions have been replaced by the Regulation on the Supervision of the Banking Business and the Detailed Regulation on the Supervision of the Banking Business reflecting the tightened measures as discussed below. Furthermore, in December 2014, the National Assembly also passed several bills that were designed to stimulate the real estate market. In November 2016, amid concerns about increasing household debt, the Government announced another real estate comprehensive countermeasure requiring property buyers in Seoul to retain ownership for a longer period of time and increasing down payments to be made on the property. In January 2017, in order to modernize credit review methods and stabilize the management of household debt, the Financial Services Commission announced the planned introduction of a debt service ratio and a new debt-to-income ratio. The new debt-to-income ratio, which has been implemented beginning January 31, 2018 reflects (i) both principal and interest payments on the applicable mortgage and home equity loan and existing mortgage and home equity loans and (ii) interest payments on other loans. Previously, debt-to-income ratio had only reflected (i) both principal and interest payments on the applicable mortgage and home equity loan and (ii) interest payments on existing mortgage and home equity loans. Debt service ratios reflect principal and interest payments on both the applicable loan and other loans and were introduced on a trial basis as a self-regulatory reference index beginning on March 26, 2018 and were fully implemented in October 2018. The new debt-to-income ratios will be used as the primary reference index in the evaluation and approval process for mortgage and home equity loans, and debt service ratios will be used as a supplementary reference index providing additional limits on mortgage and home equity loans. Since October 2018, loans to rental businesses are subject to a rent-to-interest ratio (calculated as the borrower's aggregate annual rental income from rental properties over its aggregate annual payment amount of interest on loans secured by such rental properties) of at least 1.25 for residential rental businesses and as least 1.50 for non-residential rental businesses.

On August 2, 2017, the Government unveiled a tighter set of real estate market measures aimed at taming speculation and deterring the rise of housing prices. Pursuant to the measures, beginning August 3, 2017, Seoul, Sejong Special Self-Governing City and Gwacheon were named overheated speculative districts, with the loan limits of those buying homes there to be tightened to 40% of their property value from 60%. The maximum debt-to-income ratio will be capped at 40% from 50%. Eleven districts in Seoul and Sejong Special Self-Governing City have also been designated speculative districts subject to higher taxes and tougher regulations. The August 2, 2017 measures come after President Moon Jae-in administration's first countermeasures, unveiled on June 19, 2017, which were designed to

prevent the resale of home purchasing rights of real estate assets in Seoul while tightening the bars for maximum loan-to-value ratio for home buyers to 60% from 70% and

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maximum debt-to-income ratio to 50% from 60% in the regions designated as adjustment targeted areas (comprised of Seoul, Sejong Special Self-Governing City, seven cities in Gyeonggi Province and seven boroughs in Busan Metropolitan City). However, the new lending limits, which became effective on July 3, 2017, failed to halt the surge in housing prices, thus leading to the more stringent measures announced on August 2, 2017. Currently, loan-to-value ratios and new debt-to-income ratios in overheated speculative districts, speculative districts, adjustment targeted areas and other regions are regulated by the Regulation on the Supervision of the Banking Business and the Detailed Regulation on the Supervision of the Banking Business. These renewed measures are expected to lead to a decline in the overall volume of home mortgage loans but may result in an increase in long-term deposits loans required for house rentals and lending to borrowers with high credit profiles.

As housing prices in the greater Seoul metropolitan area continued to rise despite the above measures, on September 13, 2018, the Government announced a more robust policy to curb housing prices. Effective from September 14, 2018, these measures include, among other things, tighter regulations on maximum loan-to-value ratios in overheated speculative districts, speculative districts and adjustment targeted areas (collectively, the regulated areas), under which the maximum loan-to-value ratio applicable to owners of single or multiple residential units attempting to purchase an additional residential unit located in any of the regulated areas using a mortgage loan will be nil with certain exceptions applicable only to owners of a single residential unit attempting to purchase an additional residential unit. The maximum loan-to-value ratio will be also nil, with certain exceptions, in the case of purchases of high value residential units (for which the declared value is more than ₩900 million) located in any of the regulated areas not being made for the purpose of actual residence. These renewed measures are expected to lead to a decline in the overall volume of home mortgage loans but may result in an increase in long-term deposit loans required for house rentals and lending to borrowers with high credit profiles.

Pursuant to the Regulation on the Supervision of the Banking Business, Shinhan Bank must maintain a loan to deposit ratio of no more than 100%. Currently, in calculating the loan to deposit ratio, there is no differentiation between retail loans and corporate loans. However, the Regulation on the Supervision of the Banking Business was amended on July 12, 2018 to provide that, beginning from January 1, 2020, in calculating such loan to deposit ratio, retail loans and corporate loans will be weighed differently, with retail loans subject to a multiple of 115% and corporate loans (excluding loans to SOHOs) subject to a multiple of 85%, thereby increasing the impact of retail loans and reducing the impact of corporate loans in calculating such ratio. Additionally, the Detailed Regulation on the Supervision of the Banking Business was amended on June 30, 2018 to provide for a weighted multiple to be applied to mortgage and home equity loans where the loan-to-value ratio exceeds 60% in determining required minimum total capital (BIS) ratio. Further, the Regulation on the Supervision of the Banking Business is expected to be amended during 2019 such that the countercyclical capital buffer requirement also takes into account the increase of credit in the retail sector. The Detailed Regulation on the Supervision of the Banking Business was also amended on June 30, 2018 to add concentration of risk in the retail sector as an additional criteria when the Financial Supervisory Service evaluates the risk management systems of Korean banks.

There is no assurance that Government measures will achieve their intended results. While any Government measure that is designed to stimulate growth in the real estate sector may result in growth of, and improved profitability for, our retail lending business (particularly with respect to mortgage and home equity loans) at least for the short term, such measure could also result in unintended consequences, including potentially excessive speculation resulting in a bubble for the Korean real estate market and a subsequent market crash. In contrast, any Government measure changing the direction of its stimulative measures (for example, in order to preemptively curtail an actual or anticipated bubble in the real estate market) may result in a contraction of the real estate market, a decline in real estate prices and consequently, a reduction in the growth of, and profitability for, our retail and/or other lending businesses, as well as otherwise have an adverse effect on our business, financial condition and results of operations or profitability. See Risks Relating to Our Banking Business A decline in the value of the collateral securing our

loans or our inability to fully realize the collateral value may adversely affect our credit portfolio.

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The U.S. Department of the Treasury's Office of Foreign Assets Control (OFAC) administers and enforces certain laws and regulations (OFAC Sanctions) that impose restrictions upon dealings with or related to certain countries, governments, entities and individuals that are the subject of OFAC Sanctions, including Iran, and maintains a list of specially designated nationals (the SDN List), whose assets are blocked and with whom U.S. persons are generally prohibited from dealing. Some OFAC Sanctions require a U.S. nexus in order to apply (Primary Sanctions) while other OFAC Sanctions on certain dealings with or related to Iran, North Korea, and Russia apply even in the absence of a U.S. nexus (Secondary Sanctions). Non-U.S. persons are subject to Secondary Sanctions and can also be held liable for violations of Primary Sanctions on various legal grounds, such as causing violations by U.S. persons by engaging in transactions completed in part in the United States. The European Union also enforces certain laws and regulations that impose restrictions upon nationals and entities of, and business conducted in, member states with respect to activities or transactions with certain countries, governments, entities and individuals that are the subject of such laws and regulations. The United Nations Security Council and other governmental entities also impose similar sanctions.

In August 2016, the government of Korea authorized Shinhan Bank to act as a settlement bank for Euro-denominated transactions between Korean and Iranian businesses. Prior to the granting of this permission, payments for business activities were settled only in Korean Won and we did not participate in such settlements. From August 2016 through August 2017, Shinhan Bank processed ten such transactions that resulted in a minimal amount of revenue. Since August 2017, Shinhan Bank has ceased processing any such transactions and has no intention to process any such transactions in the future. We are committed to engaging only in lawful activities and in obeying all relevant OFAC Sanctions and European Union sanctions but cannot guarantee that actions taken by our employees will not violate such sanctions. On May 8, 2018, U.S. President Donald Trump announced his decision to terminate the participation of the United States in the Joint Comprehensive Plan of Action (the JCPOA), pursuant to which certain relief of OFAC Sanctions relating to Iran had been provided. Following two wind down periods, one that ended on August 6, 2018 and that ended on November 4, 2018, all Iran-related Secondary Sanctions that had been waived pursuant to the JCPOA were re-imposed and non-U.S. persons now face risk of Secondary Sanctions for dealing with certain key sectors of the Iranian economy or for providing associated services related to the targeted activities. As such, any Iran-related activities may subject us to OFAC Sanctions and to potential legal or reputational risks.

The implementation of IFRS 9 with effect from January 1, 2018 renders certain of our historical financial information as of and for the years ended December 31, 2014, 2015, 2016 and 2017 not directly comparable with that of our financial information after January 1, 2018.

With effect from January 1, 2018, IFRS 9 Financial Instruments has replaced in entirety previous guidance in IAS 39. Following the adoption of IFRS 9, we are required to re-classify and re-measure (including impairment measurement) certain of our financial instruments from January 1, 2018 without requiring any restatement of the corresponding figures of the prior period. Based on the method of adoption allowed under IFRS 9, we are permitted to adjust our shareholder equity from January 1, 2018 without requiring any restatement of the corresponding figures of the prior period where the difference between the new carrying amount and original carrying amount recognized in retained earnings. The difference between the new carrying amount and original carrying amount amounted to ₩344 billion as of January 1, 2018. As we are not required to restate affected financial figures with the implementation of IFRS 9, certain of our historical financial information as of and for the years ended December 31, 2014, 2015, 2016 and 2017 is not directly comparable against that of our financial information after January 1, 2018. Investors must therefore exercise caution when making comparisons of any financial figures after January 1, 2018 against our historical financial figures prior to January 1, 2018 and when evaluating our financial condition, results of operations and results. For further information regarding the adoption of IFRS 9, see Item 5.A. Operating Results Critical

Accounting Policies Recently Adopted Standards and Interpretations IFRS 9, Financial Instruments and Note 60 of the notes to our consolidated financial statements included in this annual report.

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The implementation of IFRS 9 has caused us to increase our allowance for impairment losses to cover expected credit loss on our loan portfolio and other financial instruments and may increase volatility in our profit or loss.

Following the adoption of IFRS 9, the incurred loss model under the previous guidance for loans, debt instruments, lease receivables, contractual assets and financial guarantee contracts has been replaced with a forward-looking expected credit loss model, and therefore impairment losses are likely to be recognized earlier, on a more forward-looking basis and on a broader scope of financial instruments than using the incurred loss model under the previous guidance. Accordingly, as of January 1, 2018, we increased our credit loss allowance from ₩2,579 billion to ₩3,226 billion as a result of adopting IFRS 9. IFRS 9 also introduces additional requirements for a financial asset to be measured at amortized costs or fair value through other comprehensive income compared to the previous guidance and therefore would potentially increase the proportion of financial assets that are measured at fair value through profit or loss, thereby increasing volatility in our profit or loss. For further information regarding the adoption of IFRS 9, see Item 5.A. Operating Results Critical Accounting Policies Recently Adopted Standards and Interpretations IFRS 9, Financial Instruments and Note 60 of the notes to our consolidated financial statements included in this annual report.

Risks Relating to Korea

Unfavorable financial and economic conditions in Korea and globally may have a material adverse impact on our asset quality, liquidity and financial performance.

We are incorporated in Korea, where most of our assets are located and most of our income is generated. As a result, we are subject to political, economic, legal and regulatory risks specific to Korea, and our business, results of operations and financial condition are substantially dependent on developments relating to the Korean economy. As Korea's economy is highly dependent on the health and direction of the global economy, and investors' reactions to developments in one country can have adverse effects on the securities price of companies in other countries, we are also subject to the fluctuations of the global economy and financial markets. Factors that determine economic and business cycles in the Korean or global economy are for the most part beyond our control and inherently uncertain. In addition to discussions of recent developments regarding the global economic and market uncertainties and the risks relating to us as provided elsewhere in this section, factors that could have an adverse impact on Korea's economy in the future include, among others:

continued volatility or deterioration in Korea's credit and capital markets;

difficulties in the financial sectors in Europe, China and elsewhere and increased sovereign default risks in select countries and the resulting adverse effects on the global financial markets;

declines in consumer confidence and a slowdown in consumer spending and corporate investments;

adverse changes or volatility in foreign currency reserve levels, commodity prices (including oil prices), exchange rates (including fluctuation of the U.S. Dollar, the Euro or the Japanese Yen exchange rates or revaluation of the Chinese Renminbi and the overall impact of the referendum in the United Kingdom in June 2016, in which the majority of voters voted in favor of an exit from the European Union (Brexit) on the

value of the Korean Won), interest rates, inflation rates or stock markets;

increasing levels of household debt;

increasing delinquencies and credit defaults by retail and small- and medium-sized enterprise borrowers;

continuing adverse conditions in the economies of countries and regions that are important export markets for Korea, such as the United States, Europe, Japan and China, or in emerging market economies in Asia or elsewhere, as well as increased uncertainty in the wake of Brexit;

the economic impact of any pending or future free trade agreements;

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potential escalation of the ongoing trade war between the U.S. and China as each country introduces tariffs on goods traded with the other;

social and labor unrest;

decreases in the market prices of Korean real estate;

a decrease in tax revenue and a substantial increase in the Government's expenditures for fiscal stimulus measures, unemployment compensation and other economic and social programs that, together, would lead to an increased government budget deficit;

financial problems or lack of progress in the restructuring of Korean business groups, other large troubled companies, their suppliers or the financial sector;

loss of investor confidence arising from corporate accounting irregularities and corporate governance issues concerning certain Korean business groups;

increases in social expenditures to support an aging population in Korea or decreases in economic productivity due to the declining population size in Korea;

geopolitical uncertainty and risk of further attacks by terrorist groups around the world, including the actions of the so-called "Islamic State";

the occurrence of severe health epidemics in Korea and other parts of the world, including the recent Ebola, Middle East Respiratory Syndrome (MERS) and Zika virus outbreaks;

deterioration in economic or diplomatic relations between Korea and its trading partners or allies, including deterioration resulting from territorial or trade disputes or disagreements in foreign policy such as the recent diplomatic tension between Korea and China with respect to the deployment of the Terminal High Altitude Area Defense (THAAD) system in Korea and trade disputes between Korea and the United States with respect to the imposition of anti-dumping duties on Korean steel, washing machines, transformers and solar panels;

political uncertainty, or increasing strife among or within political parties in Korea, and political gridlock within the government or in the legislature, which prevents or disrupts timely and effective policy making;

hostilities or political or social tensions involving oil-producing countries in the Middle East and North Africa and any material disruption in the global supply of oil or sudden increase in the price of oil;

political or social tensions involving Russia and any resulting adverse effects on the global supply of oil or the global financial markets;

the occurrence of natural or man-made disasters in Korea (such as the sinking of the Sewol ferry in April 2014, which significantly dampened consumer sentiment in Korea for months) and other parts of the world, particularly in trading partners of Korea; and

an increase in the level of tensions or an outbreak of hostilities between North Korea and Korea or the United States.

Any future deterioration of the Korean economy could have an adverse effect on our business, financial condition and results of operations.

Tensions with North Korea could have an adverse effect on us, the price of our common shares and our American depositary shares.

Relations between Korea and North Korea have been tense throughout Korea's modern history. The level of tension between Korea and North Korea has fluctuated and may increase abruptly as a result of current and future events. In particular, since the death of Kim Jong-il in December 2011, there has been increased uncertainty with

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respect to the future of North Korea's political leadership and concern regarding its implications for political and economic stability in the region. Although Kim Jong-il's third son, Kim Jong-un has assumed power as his father's designated successor, the long-term outcome of such leadership transition remains uncertain. In February 2017, Kim Jong-un's half-brother, Kim Jong-nam, was reported to have been assassinated in an international airport in Malaysia.

In addition, there continues to be heightened security tension in the region stemming from North Korea's hostile military and diplomatic actions, including in respect of its nuclear weapons and long-range missile programs. Some examples from recent years include the following:

North Korea renounced its obligations under the Nuclear Non-Proliferation Treaty in January 2003 and conducted three rounds of nuclear tests between October 2006 to February 2013, which increased tensions in the region and elicited strong objections worldwide. On January 6, 2016, North Korea announced that it had successfully conducted its first hydrogen bomb test, hours after international monitors detected a 5.1 magnitude earthquake near a known nuclear testing site in the country. The alleged test followed a statement made in the previous month by Kim Jong-un, who claimed that North Korea had developed a hydrogen bomb. On February 7, 2016, North Korea launched a rocket, claimed by them to be carrying a satellite intended for scientific observation. The launch was widely suspected by the international community to be a cover for testing a long-range missile capable of carrying a nuclear warhead. On February 18, 2016, U.S. President Barack Obama signed into law mandatory sanctions on North Korea to punish it for its recent nuclear and missile tests, human rights violations and cybercrimes. The bill, which marks the first measure by the United States to exclusively target North Korea, is intended to seize the assets of anyone engaging in business related to North Korea's weapons program, and authorizes US\$50 million over five years to transmit radio broadcasts into the country and support humanitarian assistance projects. On March 2, 2016, the United Nations Security Council voted unanimously to adopt a resolution to impose sanctions against North Korea, which include inspection of all cargo going to and from North Korea, a ban on all weapons trade and the expulsion of North Korean diplomats who engage in illicit activities. Also, on March 4, 2016, the European Union announced that it would expand its sanctions on North Korea, adding additional companies and individuals to its list of sanction targets. In September 2016, North Korea announced that it had successfully tested a nuclear warhead that could be mounted on ballistic missiles. In response, the Government condemned the test, and on November 30 2016, the United Nations Security Council unanimously passed a resolution imposing additional sanctions on North Korea including an annual cap on North Korea's exports of coal and a prohibition on exports of non-ferrous metals such as copper, nickel, silver and zinc. In March 2017, North Korea launched four midrange missiles aimed at the U.S. military bases in Japan, which landed off the east coast of the Korean peninsula. The United Nations Security Council condemned the launches and expressed its plan to adopt additional measures against the regime. On April 4, 2017, one day before the first meeting between U.S. President Donald Trump and Chinese President Xi Jinping, North Korea launched a ballistic missile which landed off the east coast of the Korean peninsula. In addition to the United Nations Security Council's condemnation, representatives of the Government and China expressed their plan to impose stronger sanctions on North Korea. On April 15, 2017, North Korea launched another missile which failed when it exploded immediately after liftoff. In response, the Government condemned the launch as a violation of the resolution of the United Nations Security Council and warned that North Korea would have to face punitive consequences if this leads to a future nuclear experiment or launch of an intercontinental ballistic missile. In July 2017, North Korea conducted two intercontinental ballistic missile tests which displayed further development of its long-range ballistic missile capabilities that potentially enable it to target certain areas of the United States as well as other neighboring countries in the Asia-Pacific region. In response, the United Nations Security Council unanimously adopted

stronger sanctions against North Korea. In August 2017, North Korea announced its plan to launch four ballistic missiles targeting Guam, resulting in heightened diplomatic tensions between North Korea and the United States. In September 2017, North Korea detonated a sixth nuclear bomb, the most powerful weapon

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that North Korea has ever tested. Such detonation further heightened diplomatic tensions between North Korea and other nations. Each of the United Nations, the United States and the European Union adopted additional sanctions against North Korea. Spain, Mexico, Peru and Kuwait expelled from their respective territories the ambassadors of North Korea. In November 2017, North Korea conducted a test launch of another intercontinental ballistic missile, which, due to its improved size, power and range of distance, may potentially enable North Korea to target the United States mainland.

In August 2015, two Korean soldiers were injured in a landmine explosion while on routine patrol of the southern side of the demilitarized zone. Claiming the landmines were set by North Koreans, the Korean army re-initiated its propaganda program toward North Korea utilizing loudspeakers near the demilitarized zone. In retaliation, the North Korean army fired artillery rounds on the loudspeakers, resulting in the highest level of military readiness for both sides. High-ranking officials from North Korea and Korea subsequently met for discussions intending to diffuse military tensions and released a joint statement whereby, among other things, North Korea expressed regret over the landmine explosions that wounded the Korean soldiers.

From time to time, North Korea has fired short- to medium-range missiles from the coast of the Korean peninsula into the sea. Recently in March 2015, North Korea fired seven surface-to-air missiles into waters off its east coast in apparent protest of annual joint military exercises being held by Korea and the United States.

In December 2013, Jang Sung-taek, a relative of Kim Jong-un, who was widely speculated to be the second in command after Kim Jong-un, was executed on charges of sedition. There are reports that such development may cause further political and social instability in North Korea and/or adoption of more hostile policies that could engender further friction with North Korea and the rest of the world.

In April 2013, North Korea blocked Koreans from entering the industrial complex in the border city of Kaesong. In the same month, the United States deployed nuclear-capable carriers in the Korean air and sea space. In September 2013, however, Korea and North Korea reached an agreement and resumed operation of the Kaesong Industrial Complex. In February 2014, the U.S. Congressional Research Service reported that Korea's approach toward the expansion and internationalization of the Kaesong Industrial Complex could conflict with U.S. legislative efforts to expand its sanctions on North Korea. On February 10, 2016, in retaliation of North Korea's recent launch of a long-range rocket, Korea announced that it would halt its operations of the Kaesong Industrial Complex to impede North Korea's utilization of funds from the industrial complex to finance its nuclear and missile programs. In response, North Korea announced on February 11, 2016 that it would expel all Korean employees from the industrial complex and freeze all Korean assets in the complex. All 280 Korean workers present at Kaesong left hours after the announcement by North Korea, and the complex remains closed as of the date hereof.

In March 2013, North Korea stated that it had entered a state of war with Korea, declaring the 1953 armistice invalid, and put its artillery at the highest level of combat readiness to protest the Korea-United States allies military drills and additional sanctions imposed on North Korea for its missile and nuclear tests.

North Korea's economy also faces severe challenges, including severe inflation and food shortages, which may further aggravate social and political tensions within North Korea. In addition, reunification of Korea and North Korea could occur in the future, which would entail significant economic commitment and expenditure by Korea that may outweigh any resulting economic benefits of reunification. On April 27, 2018, May 26, 2018 and September 18, 2018, President Moon Jae-in met Kim Jong-un in a summit to discuss, among other matters, denuclearization of the Korean peninsula. On June 12, 2018, U.S. President Donald Trump and Kim Jong-un in turn had an official summit in Singapore, the first ever meeting between leaders of the United States and North Korea. Subsequent to the Singapore summit, they signed a joint statement, which stated, among others, new peaceful relations and the denuclearization of the Korean peninsula. The second official summit between U.S.

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President Donald Trump and Kim Jong-un was held in Vietnam on February 27, 2019 and February 28, 2019. On the night of February 27, 2019, the U.S. White House announced that U.S. President Donald Trump and Kim Jong-un would sign a joint agreement the next afternoon. However, on February 28, 2019, the U.S. White House announced that the summit was cut short and that no agreement was reached. In the aftermath of the two summits, there remains significant uncertainty regarding peace talks and the denuclearization of the Korean peninsula. As such, there can be no assurance that the level of tension on the Korean peninsula will not escalate in the future or that the political regime in North Korea may not suddenly collapse. Any further increase in tension or uncertainty relating to the military, political or economic stability in the Korean peninsula, including a breakdown of diplomatic negotiations over the North Korean nuclear program, occurrence of military hostilities, heightened concerns about the stability of North Korea's political leadership or its actual collapse, a leadership crisis, a breakdown of high-level contacts or accelerated reunification could have a material adverse effect on our business, financial condition and results of operations, as well as the price of our common shares and our American depositary shares.

Risks Relating to Our American Depositary Shares

There are restrictions on withdrawal and deposit of common shares under the depositary facility.

Under the deposit agreement, holders of shares of our common stock may deposit those shares with the depositary bank's custodian in Korea and obtain American depositary shares, and holders of American depositary shares may surrender American depositary shares to the depositary bank and receive shares of our common stock. However, under current Korean laws and regulations, the depositary bank is required to obtain our prior consent for the number of shares to be deposited in any given proposed deposit which exceeds the difference between (1) the aggregate number of shares deposited by us for the issuance of American depositary shares (including deposits in connection with the initial and all subsequent offerings of American depositary shares and stock dividends or other distributions related to these American depositary shares) and (2) the number of shares on deposit with the depositary bank at the time of such proposed deposit. We have consented to the deposit of outstanding shares of common stock as long as the number of American depositary shares outstanding at any time does not exceed 40,432,628. As a result, if you surrender American depositary shares and withdraw shares of common stock, you may not be able to deposit the shares again to obtain American depositary shares.

Ownership of our shares is restricted under Korean law.

Under the Financial Holding Companies Act, any single shareholder (together with certain persons in a special relationship with such shareholder) may acquire beneficial ownership of up to 10% of the total issued and outstanding shares with voting rights of a bank holding company controlling national banks such as us. In addition, any person, except for a non-financial business group company (as defined below), may acquire in excess of 10% of the total voting shares issued and outstanding of a financial holding company which controls a national bank, provided that a prior approval from the Financial Services Commission is obtained each time such person's aggregate holdings exceed 10% (or 15% in the case of a financial holding company controlling regional banks only), 25% or 33% of the total voting shares issued and outstanding of such financial holding company. The Government and the Korea Deposit Insurance Corporation are exempt from this limit. Furthermore, certain non-financial business group companies (i.e., (i) any same shareholder group with aggregate net assets of all non-financial business companies belonging to such group of not less than 25% of the aggregate net assets of all members of such group; (ii) any same shareholder group with aggregate assets of all non-financial business companies belonging to such group of not less than ₩2 trillion; or (iii) any mutual fund in which a same shareholder group identified in (i) or (ii) above owns more than 4% of the total shares issued and outstanding of such mutual fund) may not acquire beneficial ownership in us in excess of 4% of our outstanding voting shares, provided that such non-financial business group companies may acquire beneficial ownership of up to 10% of our outstanding voting shares with the approval of the Financial Services Commission

under the condition that such non-financial business group companies will not exercise voting rights in respect of such shares in excess of the 4% limit. See Item 4.B. Business Overview Supervision and Regulation Principal Regulations

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Applicable to Financial Holding Companies Restrictions on Financial Holding Company Ownership. To the extent that the total number of shares of our common stock that you and your affiliates own together exceeds these limits, you will not be entitled to exercise the voting rights for the excess shares, and the Financial Services Commission may order you to dispose of the excess shares within a period of up to six months. Failure to comply with such an order would result in a fine of up to ₩50 million, plus an additional charge of up to 0.03% of the book value of such shares per day until the date of disposal.

Holders of our ADSs will not have preemptive rights in certain circumstances.

The Korean Commercial Code and our articles of incorporation require us, with some exceptions, to offer shareholders the right to subscribe for new shares in proportion to their existing ownership percentage whenever new shares are issued. If we offer any rights to subscribe for additional shares of our common stock or any rights of any other nature, the depositary bank, after consultation with us, may make the rights available to you or use reasonable efforts to dispose of the rights on your behalf and make the net proceeds available to you. The depositary bank, however, is not required to make available to you any rights to purchase any additional shares unless it deems that doing so is lawful and feasible and:

a registration statement filed by us under the U.S. Securities Act of 1933, as amended, is in effect with respect to those shares; or

the offering and sale of those shares is exempt from or is not subject to the registration requirements of the U.S. Securities Act.

We are under no obligation to file any registration statement with the U.S. Securities and Exchange Commission. If a registration statement is required for you to exercise preemptive rights but is not filed by us, you will not be able to exercise your preemptive rights for additional shares and you will suffer dilution of your equity interest in us.

Holders of our ADSs will not be able to exercise dissent and appraisal rights unless they have withdrawn the underlying shares of our common stock and become our direct stockholders.

Under Korean law, in some limited circumstances, including the transfer of the whole or any significant part of our business and the merger or consolidation of us with another company, dissenting stockholders have the right to require us to purchase their shares under Korean law. However, under our deposit agreement, holders of our American depositary shares do not have, and may not instruct the depositary as to the exercise of, any dissenter's rights provided to the holders of our common shares under Korean law. Therefore, if holders of our American depositary shares wish to exercise dissenting rights, they must withdraw the underlying common stock from the American depositary shares facility (and incur charges relating to that withdrawal) and become our direct stockholders prior to the record date of the shareholders' meeting at which the relevant transaction is to be approved, in order to exercise dissent and appraisal rights.

The market value of your investment in our ADSs may fluctuate due to the volatility of the Korean securities market.

Our common stock is listed on the KRX KOSPI Division of the Korea Exchange, which has a smaller market capitalization and is more volatile than the securities markets in the United States and many European countries. The market value of ADSs may fluctuate in response to the fluctuation of the trading price of shares of our common stock

on the Stock Market Division of the Korea Exchange. The Stock Market Division of the Korea Exchange has experienced substantial fluctuations in the prices and volumes of sales of listed securities and the Stock Market Division of the Korea Exchange has prescribed a fixed range in which share prices are permitted to move on a daily basis. Like other securities markets, including those in developed markets, the Korean securities market has experienced problems including market manipulation, insider trading and settlement failures. The recurrence of these or similar problems could have a material adverse effect on the

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market price and liquidity of the securities of Korean companies, including our common stock and ADSs, in both the domestic and the international markets.

The Government has the potential ability to exert substantial influence over many aspects of the private sector business community, and in the past has exerted that influence from time to time. For example, the Government has promoted mergers to reduce what it considers excess capacity in a particular industry and has also encouraged private companies to publicly offer their securities. Similar actions in the future could have the effect of depressing or boosting the Korean securities market, whether or not intended to do so. Accordingly, actions by the government, or the perception that such actions are taking place, may take place or has ceased, may cause sudden movements in the market prices of the securities of Korean companies in the future, which may affect the market price and liquidity of our common stock and ADSs.

Your dividend payments and the amount you may realize upon a sale of your ADSs will be affected by fluctuations in the exchange rate between the U.S. Dollar and the Won.

Investors who purchase the American depositary shares will be required to pay for them in U.S. Dollars. Our outstanding shares are listed on the Korea Exchange and are quoted and traded in Won. Cash dividends, if any, in respect of the shares represented by the American depositary shares will be paid to the depositary bank in Won and then converted by the depositary bank into U.S. Dollars, subject to certain conditions. Accordingly, fluctuations in the exchange rate between the Won and the U.S. Dollar will affect, among other things, the amounts a registered holder or beneficial owner of the American depositary shares will receive from the depositary bank in respect of dividends, the U.S. Dollar value of the proceeds which a holder or owner would receive upon sale in Korea of the shares obtained upon surrender of American depositary shares and the secondary market price of the American depositary shares.

If the Government deems that certain emergency circumstances are likely to occur, it may restrict the depositary bank from converting and remitting dividends in Dollars.

If the Government deems that certain emergency circumstances are likely to occur, it may impose restrictions such as requiring foreign investors to obtain prior Government approval for the acquisition of Korean securities or for the repatriation of interest or dividends arising from Korean securities or sales proceeds from disposition of such securities. These emergency circumstances include any or all of the following:

sudden fluctuations in interest rates or exchange rates;

extreme difficulty in stabilizing the balance of payments; and

a substantial disturbance in the Korean financial and capital markets.

The depositary bank may not be able to secure such prior approval from the government for the payment of dividends to foreign investors when the Government deems that there are emergency circumstances in the Korean financial markets.

Other Risks

We are generally subject to Korean corporate governance and disclosure standards, which differ in significant respects from those in other countries.

Companies in Korea, including us, are subject to corporate governance standards applicable to Korean public companies which differ in many respects from standards applicable in other countries, including the United States. As a reporting company registered with the Securities and Exchange Commission and listed on the New York Stock Exchange, we are, and in the future will be, subject to certain corporate governance standards as mandated by the Sarbanes-Oxley Act of 2002. However, foreign private issuers, including us, are exempt from certain corporate governance requirements under the Sarbanes-Oxley Act or under the rules of the New York

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Stock Exchange. For significant differences, see Item 16G. Corporate Governance. There may also be less publicly available information about Korean companies, such as us, than is regularly made available by public or non-public companies in other countries. Such differences in corporate governance standards and less public information could result in less than satisfactory corporate governance practices or disclosure to investors in certain countries.

You may not be able to enforce a judgment of a foreign court against us.

We are a corporation with limited liability organized under the laws of Korea. All or substantially all of our directors and officers and other persons named in this annual report reside in Korea, and all or a substantial portion of the assets of our directors and officers and other persons named in this annual report and substantially all of our assets are located in Korea. As a result, it may not be possible for holders of the American depository shares to effect service of process within the United States, or to enforce against them or us in the United States judgments obtained in United States courts based on the civil liability provisions of the federal securities laws of the United States. There is doubt as to the enforceability in Korea, either in original actions or in actions for enforcement of judgments of United States courts, of civil liabilities predicated on the United States federal securities laws.

We may become a passive foreign investment company (PFIC), which could result in adverse U.S. tax consequences to U.S. investors.

Based upon the past and projected composition of our income and assets and valuation of our assets, including goodwill, we do not believe that we were a PFIC for 2018, and we do not expect to be a PFIC in 2019 or to become one in the foreseeable future, although there can be no assurance in this regard. If, however, we become a PFIC, such characterization could result in adverse U.S. tax consequences to you if you are a U.S. investor. For example, if we become a PFIC, our U.S. investors may become subject to increased tax liabilities under U.S. tax laws and regulations and will become subject to burdensome reporting requirements. Our PFIC status is determined on an annual basis and depends on the composition of our income and assets. Specifically, we will be classified as a PFIC for U.S. tax purposes if either: (i) 75% or more of our gross income in a taxable year is passive income, or (ii) the average percentage of our assets by value in a taxable year which produce or are held for the production of passive income (which generally includes cash) is at least 50%. Special rules treat certain income earned by a non-U.S. corporation engaged in the active conduct of a banking business as non-passive income. See Item 10.E. Taxation Certain United States Federal Income Tax Consequences Passive Foreign Investment Company Rules. We cannot assure you that we will not be a PFIC for 2019 or any future taxable year.

ITEM 4. INFORMATION ON THE COMPANY**ITEM 4.A. History and Development of the Company
Introduction**

We are one of the leading financial institutions in Korea in terms of total assets, revenues, profitability and capital adequacy, among others. Incorporated on September 1, 2001, we are the first privately-held financial holding company to be established in Korea. Since inception, we have developed and introduced a wide range of financial products and services in Korea and aimed to deliver comprehensive financial solutions to clients through a convenient one-portal network. According to reports by the Financial Supervisory Service, we are the second largest financial services provider in Korea (as measured by consolidated total assets as of September 30, 2018) and operate the second largest banking business (as measured by consolidated total bank assets as of September 30, 2018) and the largest

credit card business (as measured by total credit purchase volume in 2018) in Korea.

We have experienced substantial growth through several mergers and acquisitions. Most notably, our acquisition of Chohung Bank in 2003 has enabled us to have the second largest banking operations in Korea. In

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addition, our acquisition in March 2007 of LG Card, the then largest credit card company in Korea, has enabled us to have the largest credit card operations in Korea and significantly expand our non-banking business capacity so as to achieve a balanced business portfolio. In September 2018, we announced the acquisition of a 59.15% interest in Orange Life Insurance, Ltd., the former Korean unit of ING Life Insurance, as part of our efforts to diversify and enhance our non-banking businesses. The acquisition was approved by the Financial Services Commission on January 16, 2019 and closed on February 1, 2019.

As of March 31, 2019, we have 15 direct and 26 indirect subsidiaries offering a wide range of financial products and services, including commercial banking, corporate banking, private banking, credit card, asset management, brokerage and insurance services. We believe that such breadth of services will help us to meet the diversified needs of our present and potential clients. We currently serve approximately 19 million active customers, which we believe is the largest customer base in Korea, through approximately 22,012 employees at approximately 1,268 network branches group-wide. While over 80% of our revenues have been historically derived from Korea, we aim to serve the needs of our customers through a global network of 188 offices in the United States, Canada, the United Kingdom, Japan, the People's Republic of China, Germany, India, Australia, Hong Kong, Vietnam, Cambodia, Kazakhstan, Singapore, Mexico, Uzbekistan, Myanmar, Poland, Indonesia, the Philippines and the United Arab Emirates.

Our registered office and corporate headquarters are located at 20, Sejong-daero 9-gil, Jung-gu, Seoul, Korea 04513 and our telephone number is +822 6360 3000.

Our Strategy

Since our inception in 2001 we have strived to become Asia's leading financial group by establishing a foundation for sustainable growth. In furtherance of this goal, we implemented the 2020 SMART Project in 2017, which consists of four strategic pillars (1) balanced growth, (2) glocalization, (3) digital transformation and (4) upholding the Shinhan culture to ensure a high level of consistency in the strategic directions the Group announces each year, to continuously upgrade the strategic tasks in furtherance of these directives and to maintain and improve upon the speed upon we undertake such initiatives.

We have also adopted the One Shinhan strategy as an additional initiative on top of the 2020 SMART Project in order to efficiently utilize the entire range of the Group's resources and provide comprehensive financial solutions for our customers. Pursuant to the One Shinhan strategy, we continue to strengthen our matrix organizational structure, diversifying business lines and enhancing synergies with our existing businesses. Through the tireless execution of these initiatives, we continue to pursue our ultimate goal of implementing sustainable financial management and cultivating areas of continuous growth and earning potential, thereby maintaining and building upon a consistent strategic direction toward becoming Korea's leading brand and a world class financial group.

We have specifically focused on the following four strategic areas and have made significant progress through 2018.

A. Maximizing our value through balanced growth

We recorded total net income of ₩3,157 billion, the highest since our inception, mainly through robust organic growth of our existing subsidiaries. We have also experienced inorganic growth, including through establishing new entities such as Shinhan REITs Management and acquiring businesses such as Orange Life Insurance, Ltd. and Asia Trust Co., Ltd in an attempt to strengthen our non-banking business lines. We have tried to maintain a balanced business across our business portfolio without disproportionately focusing on certain companies, geographical regions or areas of business.

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B. Accelerating glocalization

We aim for the simultaneous pursuit of both expansion of our global presence and localization based on tailored strategies for our global businesses, thereby strengthening the synergies from our matrix organizational structure. As part of our efforts, we acquired ANZ Bank (Vietnam) Limited's retail division in 2017 and Prudential Vietnam Finance Company Limited and PT Archipelago Asset Management, an Indonesian asset management firm, in 2018. We have also created a Global Business Group and adopted a country head system, enabling us to effectively coordinate the decision process across multiple subsidiaries within a country and allowing us to maximize synergy between our global businesses. We have also focused on strengthening our local business capabilities through the development of products and services better tailored to meet the needs of local customers as well as through increasing the hiring of local personnel who are familiar with the local business environment.

C. Upgrading to Digital Shinhan

We have upgraded our digital platforms such as SOL and Shinhan PayFAN as part of a group-wide initiative to streamline our operations and create a digital-friendly business platform. Particularly in response to the changing competitive landscape, including virtual payment services and new mobile based payment methods introduced by competitors such as online service providers, technology companies and Internet-only banks, we have focused our efforts on creating a platform featuring new technology that is more customer oriented and user friendly. In order to effectively adapt to the new business environment and foster the digital ecosystem, we have also launched a program called Shinhan Future's Lab, which is dedicated to the fintech business by actively pursuing technology development, and formed strategic alliances with key partners as well as additional teams focusing on innovation and creating new sources of value for our clients through the development of promising future technologies such as artificial intelligence, block chain, open application programming interfaces and innovative digital platforms.

D. Promoting our corporate culture

We believe our culture emphasizing flexibility, productivity and creativity has allowed us to continue our growth as an organization. In addition to streamlining our internal decision making and approval processes and systems, we have emphasized a group-wide S.A.Q. (speed, agility and quickness) transformation in order to enhance our ability to swiftly adapt to the rapidly changing business environment. We have also continued our efforts for social sustainability, for example, through our Society of Hope Project carrying out social initiatives such as support for financially underprivileged families, career-discontinued women and households in crisis, our ECO Transformation 2020 initiative emphasizing environment friendly business practices and co-implementing the Principles for Responsible Banking as promulgated by the UN Environment Finance Initiative with 28 other banks around the world.

In 2019, in order to attain sustainable growth, as part of the second phase of the 2020 SMART Project, we have established a management plan around our One Shinhan initiative and have identified the following as our particular areas of emphasis in order to enhance our innovation and leadership in the financial sector through creativity and execution.

1. Creating a One Shinhan value chain across the Group

We have recently expanded and strengthened our matrix organizational structure, particularly with regards to our global investment banking, global markets and securities, and platform-based marketing structure. We plan to

continue expanding our business offerings and increasing the synergy between our new and existing businesses. We plan to further strengthen our core business such as retirement pension services and services for corporate and institutional clients and improve upon our main product lines and service offerings, as well as our supporting systems for such business offerings.

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2. Expanding our portfolio of future growth sources

We have strived to expand our portfolio of what we believe to be future growth areas of business. In 2018, we were designated as the primary bank for the Seoul metropolitan government, successfully listed shares of Shinhan Alpha REIT on the KRX KOSPI Market, led the consortium that was selected as the preferred bidder for the Seoul GTX project (a planned high-speed commuter rail network in the Seoul metropolitan area) and also completed several acquisitions. We plan to further grow our new lines of business and also renew our wealth management model, which is the core source of our non-interest income. We will also work to optimize the allocation of our resources, including capital and employees, in order to maximize our operational efficiency and performance.

3. Procuring high-quality global growth opportunities

Our global businesses have been an area of focus and growth for us, and as a result the proportion of our global assets and income derived from our global businesses have increased significantly during the past few years. We aim to solidify the profitability and soundness of our global businesses and enhance the localization level of our core capabilities in such markets in order to create a sustainable global business. We plan to maximize synergy among our subsidiaries and businesses and expand our global business network with local partners so that we can take advantage of local business opportunities and enhance our global business capabilities.

4. Improving our digital platforms through digital transformation

We have recently launched and upgraded a variety of digital platforms including SOL, Shinhan PayFAN and Shinhan PLUS, a group-wide marketing platform to promote cross selling within the group, and we have also launched Shinhan Future's Lab and Vietnam Future's Lab, which provide support for fintech startup companies. We plan to continue our digital technology innovation efforts to enhance the competitiveness and efficiency of our existing business platforms while also proactively responding to new technology and platforms introduced by new competitors such as online service providers, technology companies and Internet-only banks. In addition, to the extent we believe feasible and beneficial, we also intend to expand globally our business platforms that have been successful domestically and also explore new business opportunities in collaboration with global digital businesses.

5. Establishing a sustainable management framework

We have been included in the Dow Jones Sustainability World Index for six consecutive years and, in 2018, we co-implemented the Principles for Responsible Banking as promulgated by the UN Environment Finance Initiative with 28 other banks around the world. In furtherance of establishing a business model of sustainable growth and development, a recent area of focus for us has been contributing towards a sustainable and inclusive financial business. We have implemented the ECO Transformation 2020 initiative emphasizing environment friendly business practices, and we plan to continue our Society of Hope Project and nurture a healthy ecosystem for social enterprises.

6. Heightening our risk management capabilities

We plan to further enhance our risk management capabilities in preparation for rapid changes in the economy, society, government policies and regulatory environment and streamline the risk management processes of our newly developing businesses and global network. We have established non-financial risk management systems (such as for environmental, social and operational risks) and have upgraded our crisis management system which also oversees our

global businesses. We plan to monitor and manage non-financial risks such as compliance, environmental and social risks. In addition, we are also committed to enhancing the stability of our information and communications technology infrastructure as well as enhancing cybersecurity

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and customer information protection measures in the face of rapid changes in technology and the digital environment.

7. Cultivating and developing our corporate culture

We plan to continue fostering our culture of flexibility, productivity and creativity, while simultaneously further increasing our ability to successfully adapt and innovate in response to the rapidly changing environment, including through an emphasis on a group-wide S.A.Q. (speed, agility and quickness) transformation. In addition, we aim to implement a nurturing environment to develop and grow future management leaders (including more female leaders) and improve our talent development and retention systems in order to better develop and retain talent who will lead our core business lines in the future.

Our History and Development

On September 1, 2001, we were formed as a financial holding company under the Financial Holding Companies Act, as a result of acquiring all of the issued shares of the following four entities from their former shareholders in exchange for shares of our common stock: (i) Shinhan Bank, a nationwide commercial bank listed on the Korea Exchange, (ii) Shinhan Securities Co., Ltd., a securities brokerage company listed on the Korea Exchange, (iii) Shinhan Capital Co., Ltd., a leasing company listed on the Korea Exchange Korean Securities Dealers Automated Quotations (KRX KOSDAQ), and (iv) Shinhan Investment Trust Management Co., Ltd., a privately held investment trust management company. On September 10, 2001, the common stock of our holding company was listed on what is currently the KRX KOSPI Market.

Since our inception, we have expanded our operations, in large part, through strategic acquisitions, establishing subsidiaries or formation of joint ventures. Our key acquisitions, capital contributions and joint venture formations are described as below:

Date of Acquisition	Entity	Principal Activities	Method of Establishment
April 2002	Jeju Bank	Regional banking	Acquisition from Korea Deposit Insurance Corporation
July 2002	Shinhan Investment Corp. ⁽¹⁾	Securities and investment	Acquisition from the SsangYong Group
August 2002	Shinhan BNP Paribas Investment Trust Management Co., Ltd. ⁽²⁾	Investment advisory	50:50 joint venture with BNP Paribas
August 2003	Chohung Bank	Commercial banking	Acquisition from

December 2005	Shinhan Life Insurance	Life insurance services	creditors Acquisition from
March 2007	LG Card	Credit card services	shareholders Acquisition from
January 2012	Tomato Mutual Savings Bank ⁽³⁾	Savings bank	creditors Purchase and assumption of assets and liabilities from
January 2013	Yehanbyoul Savings Bank ⁽⁴⁾	Savings bank	creditors Acquisition from Korea Deposit Insurance Corporation

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Date of Acquisition	Entity	Principal Activities	Method of Establishment
October 2017	Shinhan REITs Management	Real estate asset management	Newly established
February 2019	Orange Life Insurance ⁽⁵⁾	Life insurance services	Acquisition from majority shareholders

Notes:

- (1) Renamed as Shinhan Investment Corp. from Goodmorning Shinhan Securities Co., Ltd. effective August 2009.
- (2) In January 2009, SH Asset Management Co., Ltd. and Shinhan BNP Paribas Investment Trust Management merged to form Shinhan BNP Paribas Asset Management Co., Ltd.
- (3) Shinhan Hope Co., Ltd. was established on December 12, 2011, to purchase and assume certain assets and liabilities of Tomato Mutual Savings Bank. On December 28, 2011, Shinhan Hope Co., Ltd. obtained a savings bank license, changed its name to Shinhan Savings Bank and became our direct subsidiary.
- (4) In January 2013, we entered into a share purchase agreement with Korea Deposit Insurance Corporation for the acquisition of Yehanbyoul Savings Bank, a savings bank located in Korea, for ₩45.3 billion, and received regulatory approval to merge Yehanbyoul Savings Bank into our existing subsidiary Shinhan Saving Bank. On April 1, 2013, Shinhan Savings Bank and Yehanbyoul Savings Bank merged into a single entity, with Yehanbyoul Savings Bank being the surviving entity and the newly merged bank being named Shinhan Savings Bank.
- (5) In September 2018, we announced the acquisition of a 59.15% interest in Orange Life Insurance, Ltd., the former Korean unit of ING Life Insurance. The acquisition was approved by the Financial Services Commission on January 16, 2019 and closed on February 1, 2019. Upon closing, Orange Life Insurance became our direct subsidiary.

ITEM 4.B. Business Overview

Unless otherwise specifically mentioned, the following business overview is presented on a consolidated basis under IFRS.

Our Principal Activities

We provide comprehensive financial services, principally consisting of the following:

commercial banking services, consisting of:

retail banking, which primarily focuses on making loans to or receiving deposits from individual customers (including high net-worth individuals and families) and, to a lesser extent, not-for-profit institutions such as hospitals, airports and schools;

corporate banking, which primarily focuses on making loans to or receiving deposits from for-profit corporations, including small- and medium-sized enterprises, and providing investment banking services to corporate clients;

international banking, which primarily focuses on management of overseas subsidiaries and branch operations and other international businesses; and

other banking, which consists of treasury business (including internal asset and liability management and other non-deposit funding activities), securities investing and trading and derivatives trading, as well as administration of the overall banking operations.

credit card services;

securities brokerage services;

life insurance services;

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asset management services, including brokerage and trading of various securities, related margin lending and deposit and trust services, and other asset management services; and

other services, including leasing and equipment financing, savings banking services, loan collection and credit reporting, collective investment administrative services and financial system development services as well as engaging in alternative investments through formation of private equity funds on a private placement basis.

In addition to the above-mentioned business activities, we, at the holding company level, have the wealth management planning office and corporate & investment banking business department, whose primary function is to support cross-divisional management with respect to these specific functional areas.

Our principal business activities are not subject to any material seasonal trends. While we have a number of overseas branches and subsidiaries, substantially all of our assets are located, and substantially all of our revenues are generated, in Korea.

Deposit-Taking Activities

Principally through Shinhan Bank, we offer many deposit products that target different customer segments with features tailored to each segment's financial and other profiles. Our deposit products consist principally of the following:

Demand deposits. Demand deposits do not accrue interest or accrue interest at a lower rate than time or savings deposits and allow the customer to deposit and withdraw funds at any time. If interest-bearing, demand deposits have interest accruing at a fixed or variable rate depending on the period and the amount of deposit. Demand deposits constituted 16.1%, 16.6% and 16.1% of our total deposits as of December 31, 2016, 2017 and 2018, respectively. Demand deposits paid average interest of 0.37%, 0.36% and 0.39% in 2016, 2017 and 2018, respectively.

Time and savings deposits. Time deposits generally require the customer to maintain a deposit for a fixed term during which the deposit accrues interest at a fixed rate or a variable rate based on certain financial indexes, including the cost of funds index, or COFIX, published by the Korean Federation of Banks. If the deposit is withdrawn prior to the end of the fixed term, the customer is paid a lower interest rate than that originally offered. The term typically ranges from one month to five years. Time deposits constituted 52.8%, 50.3% and 51.3% of our total deposits as of December 31, 2016, 2017 and 2018, respectively, and paid average interest of 1.64%, 1.55% and 1.81% in 2016, 2017 and 2018, respectively. Savings deposits allow the customer to deposit and withdraw funds at any time and accrue interest at an adjustable interest rate, which is typically lower than the rate applicable to time or installment deposits. Savings deposits constituted 28.3%, 30.1% and 29.1% of our total deposits as of December 31, 2016, 2017 and 2018, respectively, and paid average interest of 0.59%, 0.51% and 0.56% in 2016, 2017 and 2018, respectively.

Other deposits. Other deposits consist mainly of certificates of deposit. Certificates of deposit typically have maturities from 30 days to two years. Interest rates on certificates of deposit are determined based on the length of the deposit and prevailing market interest rates. Certificates of deposit are sold at a discount to their

face value, reflecting the interest payable on the certificates of deposit. Certificates of deposit constituted 2.8%, 3.0% and 3.5% of our total deposits as of December 31, 2016, 2017 and 2018, respectively and paid average interest of 1.47%, 1.57% and 1.96% in 2016, 2017 and 2018, respectively.

We also offer deposits which provide the customer with preferential rights to housing subscriptions under the Housing Law and Rules on Housing Supply (the Housing Law), and eligibility for mortgage and home equity loans. As a result of an amendment to the Housing Law in June 2015, new subscriptions to housing subscription savings accounts, housing subscription time deposits accounts and housing subscription installment

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savings accounts became no longer available after September 1, 2015. Instead, general housing subscription savings accounts (which combine all of the functions of the aforementioned three accounts) presently remain available to all. The contribution period is from the subscription date to the date on which the account holder is selected as the purchaser of a house, and the required monthly contribution amount is from a minimum of ₩20,000 to a maximum of ₩500,000. The interests accrued on general housing subscription savings accounts are paid in lump sum upon termination of the account, and such interests shall be calculated at the interest rate determined and announced by the Ministry of Land, Infrastructure and Transport. Those who have a general housing subscription savings account and meet certain other criteria are granted a preferential subscription right for the purchase of a house. In the case of privately funded houses, the aggregate amount of contributions made to the account must be at least the applicable deposit threshold amount for the location and area of the relevant house (from ₩2 million up to ₩15 million). It is impossible to change the account holder name of a general housing subscription savings account except in the case of inheritance by the death of the original account holder. For information on our deposits in Korean Won based on the principal types of deposit products we offer, see [Description of Assets and Liabilities](#) [Funding](#) [Deposits](#).

The rate of interest payable on our deposit products may vary significantly, depending on average funding costs, the rate of return on our interest-earning assets, prevailing market interest rates among financial institutions and other major financial indicators.

We also offer court deposit services for litigants in Korean courts, which involve providing effectively an escrow service for litigants involved in certain types of legal or other proceedings. Chohung Bank historically was a dominant provider of such services since 1958, and following the acquisition of Chohung Bank, we continue to hold a dominant market share in these services. Such deposits typically carry interest rates lower than the market rates (by approximately 0.5% per annum) and amounted to ₩5,656 billion, ₩5,639 billion and ₩5,645 billion as of December 31, 2016, 2017 and 2018, respectively.

The Monetary Policy Committee of the Bank of Korea imposes a reserve requirement on Won currency deposits at commercial banks at rates ranging from 0% to 7%, based generally on maturity and the type of deposit instrument. See [Supervision and Regulation](#) [Principal Regulations Applicable to Banks](#) [Liquidity](#).

The Depositor Protection Act provides for a deposit insurance system under which the Korea Deposit Insurance Corporation guarantees repayment of eligible bank deposits to depositors up to ₩50 million per depositor and ₩50 million per insured under the defined contribution retirement pension per bank. See [Supervision and Regulation](#) [Principal Regulations Applicable to Banks](#) [Deposit Insurance System](#).

Retail Banking Services***Overview***

We provide retail banking services primarily through Shinhan Bank, and, to a significantly lesser extent, through Jeju Bank, a regional commercial bank. Our retail loans, before allowance for loan losses and deferred loan origination costs and fees and excluding credit card receivables, amounted to ₩120,832 billion as of December 31, 2018.

Retail banking services include mortgage and home equity lending and retail lending as well as demand, savings and fixed deposit-taking, checking account services, electronic banking and automatic teller machines (ATM) services, bill paying services, payroll and check-cashing services, currency exchange and wire fund transfer. We believe that providing modern and efficient retail banking services is important to maintaining our public profile and as a source of fee-based income. Accordingly, we believe that our retail banking services and products will become increasingly important in the coming years as the domestic banking sector further develops and becomes more complex.

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Retail banking has been and will continue to remain one of our core businesses. Our strategy in retail banking is to provide prompt and comprehensive services to retail customers through increased automation and improved customer service, as well as a streamlined branch network focused on sales. The retail segment places an emphasis on targeting high net-worth individuals.

Retail Lending Activities

We offer various retail loan products, consisting principally of loans to individuals and households. Our retail loan products target different segments of the population with features tailored to each segment's financial profile and other characteristics, including customer's occupation, age, loan purpose, collateral requirements and the duration of the customer's relationship with Shinhan Bank. Our retail loans consist principally of the following:

Mortgage and home equity loans, which are mostly comprised of mortgage loans that are used to finance home purchases and are generally secured by the housing unit being purchased; and

Other retail loans, which are loans made to customers for any purpose other than mortgage and home equity loans and the terms of which vary based primarily upon the characteristics of the borrower and which are either unsecured or secured, or guaranteed by deposits or by a third party. Other retail loans also include advance loans extended on an unsecured basis to retail borrowers the use of proceeds for which is restricted to financing of home purchases prior to the completion of the construction.

As of December 31, 2018, our mortgage and home equity loans and other retail loans accounted for 51.6% and 48.4% of our total retail loans, respectively.

For secured loans, our policy is to lend up to 40% to 100% of the appraisal value of the collateral, after taking into account the value of any lien or other security interest that has priority over our security interest (other than petty claims). For mortgage and home equity loans, our general policy is to lend up to 45% to 82% of the appraisal value of the collateral, but subject to the maximum loan-to-value ratio, debt-to-income ratio and debt service ratio requirements for mortgage loans implemented by the Government. The loan-to-value ratio of secured loans, including mortgage and home equity loans, is updated on a monthly basis using the most recent appraisal value of the collateral, and maximum loan-to-value ratios are further adjusted based on factors such as the location of the secured property, nature and purpose of the loans and level of competition in the market. Since January 11, 2019, maximum loan-to-value ratios are determined and may be adjusted in increments of 1% (as opposed to increments of 5%, which was the case prior to January 11, 2019), allowing us to set more precise and tailored maximum loan-to-value ratios for our secured loans. As of December 31, 2018, the loan-to-value ratio of mortgage and home equity loans of Shinhan Bank was 49.9%. As of December 31, 2018, substantially all of its mortgage and home equity loans were secured by residential property.

Under the administrative instructions of the Financial Supervisory Commission and the Financial Supervisory Service effective August 1, 2014 (which have been extended and amended several times, but have been replaced by the Regulation on the Supervision of the Banking Business and the Detailed Regulation on the Supervision of the Banking Business reflecting the tightened measures as discussed below), our banking subsidiaries were subject to, when extending mortgage and home equity loans, to the maximum loan-to-value ratio of 70% (irrespective of the location of the property, subject to certain exceptions) and the maximum debt-to-income ratio of 60% (only in respect of apartment units located in the greater Seoul metropolitan area, subject to certain exceptions).

On August 2, 2017, the Government unveiled a more robust set of real estate market measures aimed at deterring speculation and mitigating the rise of housing prices. Pursuant to the measures, beginning on August 3, 2017, Seoul, Sejong Special Self-Governing City and Gwacheon were named overheated speculative districts, with the loan limits of those buying homes there to be tightened to 40% of their property value from 60%. The maximum debt-to-income ratio was capped at 40% from 50%. Eleven districts in Seoul and Sejong Special Self-

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Governing City were designated as speculative districts and became subject to higher taxes and tougher regulations. These measures came after President Moon Jae-in administration's first countermeasures, unveiled on June 19, 2017, which were designed to prevent the resale of home purchasing rights of real estate assets in Seoul while lowering the maximum loan-to-value ratio for home buyers to 60% from 70% and maximum debt-to-income ratio to 50% from 60% in the regions designated as adjustment targeted areas (comprised of Seoul, Sejong Special Self-Governing City, seven cities in Gyeonggi Province and seven boroughs in Busan Metropolitan City). However, the new lending limits, which became effective on July 3, 2017, failed to halt the surge in housing prices, thus leading to the more stringent measures announced on August 2, 2017. Currently, loan-to-value ratios and new debt-to-income ratios in overheated speculative districts, speculative districts, adjustment targeted areas and other regions are regulated by the Regulation on the Supervision of the Banking Business and the Detailed Regulation on the Supervision of the Banking Business.

On January 31, 2018, the existing debt-to-income requirement was replaced by the new debt-to-income ratio requirement, which reflects (i) both principal and interest payments on the applicable mortgage and home equity loan and existing mortgage and home equity loans and (ii) interest payments on other loans. The previous debt-to-income requirement had only reflected (i) both principal and interest payments on the applicable mortgage and home equity loan and (ii) interest payments on existing mortgage and home equity loans.

As housing prices in the greater Seoul metropolitan area continued to rise despite the above measures, on September 13, 2018, the Government announced a more robust policy to curb housing prices. Effective from September 14, 2018, these measures include, among other things, tighter regulations on maximum loan-to-value ratios in overheated speculative districts, speculative districts and adjustment targeted areas (collectively, the regulated areas), under which the maximum loan-to-value ratio applicable to owners of single or multiple residential units attempting to purchase an additional residential unit located in any of the regulated areas using a mortgage loan will be nil with certain exceptions applicable only to owners of a single residential unit attempting to purchase an additional residential unit. The maximum loan-to-value ratio will be also nil, with certain exceptions, in the case of purchases of high value residential units (for which the declared value is more than ₩900 million) located in any of the regulated areas not being made for the purpose of actual residence.

In addition, the supervising authorities in Korea from time to time issue administrative instructions to Korean banks, which have the effect of regulating the access of borrowers to housing loans and, as such, demand for real estate properties. For example, the Financial Supervisory Service issued administrative instructions to financial institutions to (except in limited circumstances) verify the borrower's ability to repay based on proof of income prior to making a mortgage and home equity loan regardless of the type or value of the collateral or the location of the property, which has had the effect of practically barring the grant of any new mortgage and home equity loans to borrowers without verifiable income.

Our banking subsidiaries extend mortgage and home equity loans in compliance with the applicable regulations and administrative instructions by the relevant supervising authorities.

The following table sets forth a breakdown of our retail loans.

	As of December 31,		
	2016	2017	2018
	(In billions of Won, except percentages)		
Retail loans⁽¹⁾			
Mortgage and home-equity loans	₩ 56,235	₩ 59,078	₩ 62,394

Other retail loans	47,949	52,512	58,438
Percentage of retail loans to total gross loans	39.9%	40.2%	39.9%

Note:

- (1) Before allowance for loan losses and deferred loan origination costs and fees and excludes credit card receivables.

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The total mortgage and home equity loans amounted to ₩62,394 billion as of December 31, 2018, and as of such date, consisted of amortizing loans (whose principal is repaid by part of the installment payments) in the amount of ₩45,573 billion and non-amortizing loans in the amount of ₩16,821 billion. In addition, as of December 31, 2018, we also provided lines of credit in the aggregate outstanding amount of ₩648 billion for non-amortizing loans.

Pricing

The interest rates payable on Shinhan Bank's retail loans are either periodically adjusted floating rates (based on a base rate determined for three-month, six-month or twelve-month periods derived using an internal transfer price system, which reflects the market cost of funding, as adjusted to account for expenses related to lending and the profit margin of the relevant loan products) or fixed rates that reflect the market cost of funding, as adjusted to account for expenses related to lending and the profit margin. Fixed rate loans are offered only on a limited basis and at a premium to floating rate loans. For unsecured loans, which Shinhan Bank provides on a floating or fixed rate basis, interest rates thereon reflect a margin based on, among other things, the borrower's credit score as determined during its loan approval process. For secured loans, the credit limit is based on the type of collateral, priority with respect to the collateral and the loan-to-value ratio. Shinhan Bank may adjust the pricing of these loans to reflect the borrower's current and/or expected future contribution to Shinhan Bank's profitability. The interest rate on Shinhan Bank's loan products may become adjusted at the time the loan is extended. If a loan is repaid within three years following the date of the loan, the borrower is required to pay an early repayment fee, which is typically 0.8% to 1.4% of the outstanding principal amount of and accrued and unpaid interest on the loan, multiplied by a fraction the numerator of which is the number of the remaining days on the loan until maturity and the denominator of which is the number of days comprising the term of the loan or three years, whichever is greater. In January 2019, the Financial Services Commission announced plans to lower such early repayment fees for repayment of loans within three years following the date of the loan, which may further intensify competition for household loans.

As of December 31, 2018, Shinhan Bank's three-month, six-month and twelve-month base rates were 1.92%, 1.95% and 1.98%, respectively. As of December 31, 2018, Shinhan Bank's fixed rates for mortgage and home equity loans with a maturity of five years were 4.83%. Shinhan Bank's fixed rates for other retail loans with a maturity of one year ranged from 4.45% to 14.00%, depending on the credit scores of its customers.

As of December 31, 2018, 94.0% of Shinhan Bank's total retail loans were floating rate loans and 6.0% were fixed rate loans. As of the same date, 96.5% of Shinhan Bank's retail loans with maturity of more than one year were floating rate loans and 3.5% were fixed rate loans.

The interest rate charged to customers by our banking subsidiaries is based, in part, on the cost of funds index, or COFIX, which is published by the Korean Federation of Banks. COFIX is computed based on the weighted average interest of select funding products (including time deposits, housing and other installment savings deposits, repos, discounted bills and senior non-convertible financial debentures) of eight major Korean banks (comprised of Shinhan Bank, Kookmin Bank, Woori Bank, KEB Hana Bank, Nonghyup Bank, Industrial Bank of Korea, Citibank Korea Inc. and Standard Chartered Bank Korea Limited). Each bank then independently determines the interest rate applicable to its respective customers by adding a spread to the COFIX based on the difference between the COFIX and such bank's general funding costs, administration fees, the customer's credit score, the maturity of the loan and other customer-specific premiums and discounts based on the customer relationship with such bank. These interest rates are typically adjusted on a monthly basis. In January 2019, the Financial Services Commission announced plans to reflect rates for short term deposits such as demand deposits when computing the cost of funds index, or COFIX, which is expected to result in lower interest rates for household loans compared to the previous COFIX rate.

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Historically, we have focused on customers with high net-worth. Our retail banking services include providing private banking services to high net-worth customers who seek personal advice in complex financial matters. Our aim in private banking is to help enhance wealth accumulation by, and increase the financial sophistication of, our high net-worth clients by offering them customized wealth management solutions and comprehensive financial services including asset portfolio and fund management, tax consulting, real estate management and family office services, among others. Since the end of 2011, in order to preemptively respond to evolving customer needs and promote asset growth by inducing greater synergy between commercial banking and investment advisory services offered by Shinhan Investment, Shinhan Bank launched private wealth management centers which combine certain branches of Shinhan Bank with those of Shinhan Investment located in the same area. Shinhan Bank's strength in private banking has been widely recognized by a number of significant industry awards in recent years, including the Best Wealth Manager in Korea (awarded seven consecutive years) and Best Private Bank in Korea (awarded four consecutive years) awards by The Asset magazine and the Best Wealth Management Bank in Korea (awarded four consecutive years), Investment Product of the Year and Best Wealth Management Service Quality by The Asian Banker in 2018.

As of December 31, 2018, Shinhan Bank operated 27 private wealth management service centers nationwide, including 18 in Seoul, three in the suburbs of Seoul and six in cities located in other regions in Korea. As of December 31, 2018, Shinhan Bank had approximately 7,461 private banking customers, who typically are required to have ₩500 million in deposits with Shinhan Bank to qualify for its private banking services.

*Corporate Banking Services**Overview*

We provide corporate banking services, primarily through Shinhan Bank, to small- and medium-sized enterprises, including enterprises known as SOHO (standing for small office, home office), which are small enterprises operated by individuals or households, and, to a lesser extent, to large corporations, including corporations that are affiliated with *chaebols*. We also lend to government-controlled enterprises.

The following table sets forth the balances and percentage of our total loans (before allowance for loan losses and deferred loan origination costs and fees) attributable to each category of our corporate lending business as of the dates indicated.

	2016		As of December 31, 2017		2018	
	(In billions of Won, except percentages)					
Small- and medium-sized enterprises loans ⁽¹⁾	₩ 71,757	27.5%	₩ 78,556	28.3%	₩ 84,972	28.0%
Large corporate loans	34,131	13.1	35,664	12.9	35,428	11.7
Others ⁽²⁾	31,482	12.0	31,038	11.1	39,390	13.0
Total corporate loans	₩ 137,370	52.6%	₩ 145,258	52.3%	₩ 159,790	52.7%

Notes:

- (1) Represents the principal amount of loans extended to corporations meeting the definition of small- and medium-sized enterprises under the Basic Act on Small- and Medium-sized Enterprises and its Presidential Decree.
- (2) Includes loans to governmental agencies, loans to banks and other corporate loans, including loans originated by subsidiaries other than Shinhan Bank which are classified as corporate loans for purposes of financial reporting.

Table of Contents*Small- and Medium-sized Enterprises Banking*

Under the Basic Act on Small- and Medium-sized Enterprises (the SME Basic Act) and the related Presidential Decree, as amended and effective from January 27, 2016, in order to qualify as a small- and medium-sized enterprise, (i) the enterprise's total assets at the end of the immediately preceding fiscal year must be less than ₩500 billion, (ii) the enterprise must meet the standards prescribed by the Presidential Decree in relation to the average and total annual sales revenues applicable to the type of its main business, and (iii) the enterprise must meet the standards of management independence from ownership as prescribed by the Presidential Decree, including non-membership in a conglomerate as defined in the Monopoly Regulations and Fair Trade Act. However, if any entity which was a small- and medium-sized enterprise as defined in the SME Basic Act prior to the latest amendment no longer meets such definition following such amendment, such entity will be deemed a small- and medium-sized enterprise for purposes of the SME Basic Act. Non-profit enterprises that satisfy certain requirements prescribed in the SME Basic Act and its Presidential Decree may qualify as a small- and medium-sized enterprise. Furthermore, cooperatives and federations of cooperatives as prescribed by the Presidential Decree are deemed as small- and medium-sized enterprises, effective from April 15, 2014. As of December 31, 2018, we made loans to 284,911 small- and medium-sized enterprises for an aggregate amount of ₩84,972 billion (before allowance for loan losses and deferred loan origination costs and fees).

We believe that Shinhan Bank, whose traditional focus has been on small- and medium-sized enterprises lending, is well-positioned to succeed in the small- and medium-sized enterprises market in light of its marketing capabilities (which we believe have provided Shinhan Bank with significant customer loyalty) and its prudent risk management practices, including conservative credit rating systems for credit approval. To maintain or increase its market share of small- and medium-sized enterprises lending, Shinhan Bank:

has accumulated a market-leading expertise and familiarity as to customers and products. We believe Shinhan Bank has an in-depth understanding of the credit risks embedded in this market segment, allowing Shinhan Bank to develop loan and other products specifically tailored to the needs of this market segment;

operates a relationship management system to provide customer service that is tailored to small- and medium-sized enterprises. Shinhan Bank currently has relationship management teams in 185 banking branches, of which 49 are corporate banking branches and 136 are hybrid banking branches designed to serve both retail customers and, to a limited extent, corporate customers. These relationship management teams market products, and review and approve smaller loans with less credit risks; and

continues to focus on cross-selling loan products with other products. For example, when Shinhan Bank lends to small- and medium-sized enterprises, it also explores opportunities to cross-sell retail loans or deposit products to the employees of these enterprises or to provide financial advisory services.

Large Corporate Banking

Large corporate customers consist primarily of member companies of *chaebols* and financial institutions. Our large corporate loans amounted to ₩35,428 billion (before allowance for loan losses and deferred loan origination costs and fees) as of December 31, 2018. Large corporate customers tend to have better credit profiles than small- and medium-sized enterprises, and accordingly, Shinhan Bank has expanded its focus on these customers as part of its risk management policy.

Shinhan Bank aims to be a one-stop financial solution provider that also partners with its corporate clients in their corporate expansion and growth endeavors. To that end, Shinhan Bank provides a wide range of corporate banking services, including investment banking, real estate financing, overseas real estate project financing, large development project financing, infrastructure financing, structured financing, equity investments/venture investments, mergers and acquisitions consulting, securitization and derivatives services, including securities and derivative products and foreign exchange trading. Shinhan Bank, through Shinhan Asia Limited, a subsidiary in

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Hong Kong, also arranges financing for, and offers consulting services to, Korean companies expanding their business overseas, particularly in Asia.

Electronic Corporate Banking

Shinhan Bank offers to corporate customers a web-based total cash management service known as Shinhan Bizbank. Shinhan Bizbank supports substantially all types of banking transactions ranging from basic transaction history inquiries and fund transfers to opening letters of credit, trade finance, payment management, collection management, sales settlement service, acquisition settlement service, business-to-business settlement service, sweeping, pooling, ERP interface service, host-to-host banking solutions, SWIFT SCORE service and global cash and liquidity management service. In addition, Shinhan Bank provides customers with integrated and advanced access to its financial services through its Inside Bank program, which combines Internet banking, capital management services and enterprise resource planning to better serve corporate customers. The Inside Bank program also seeks to provide customized financial services to meet the comprehensive needs of target corporate customers ranging from conglomerates to small enterprises in various industries, with the goal of enhancing convenience to our corporate customers in accessing our financial services as well as assisting them to strategically manage their funds. In line with Shinhan Bank's efforts to facilitate non-face-to-face online transactions for corporate transactions, in 2018, Shinhan Bank upgraded its virtual account-based corporate fund management service, known as Shinhan Damoa Service, making it available on mobile channels. In addition, Shinhan Bank has made the fund transfers via phone number service (allowing customers to make fund transfers without the recipients' account number), which was previously only available for personal banking customers, available for corporate banking customers as well.

Corporate Lending Activities

Our principal loan products for corporate customers are working capital loans and facilities loans. Working capital loans, which include discounted notes and trade financing, are generally loans used for general working capital purposes. Facilities loans are provided to finance the purchase of equipment and construction of manufacturing plants. As of December 31, 2018, working capital loans and facilities loans amounted to ₩54,702 billion and ₩51,411 billion, respectively, representing 48.2% and 45.3% of our total Won-denominated corporate loans. Working capital loans generally have a maturity of one year, but may be extended on an annual basis for an aggregate term of three years in the case of unsecured loans and five years in the case of secured loans. Facilities loans have a maximum maturity of 15 years, are typically repaid in semiannual installments per annum and may be entitled to a grace period not exceeding one-third of the loan term with respect to the first repayment; facilities loans with a term of three years or less may be paid in full at maturity.

Loans to corporations may be unsecured or secured by real estate, deposits or guaranty certificates. As of December 31, 2018, secured loans and guaranteed loans (including loans secured by guaranty certificates issued by credit guarantee insurance funds) accounted for 59.6% and 12.6%, respectively, of our Won-denominated loans to small- and medium-sized enterprises. As of December 31, 2018, 50.7% of the corporate loans were secured by real estate.

When evaluating whether to extend loans to corporate customers, Shinhan Bank reviews their creditworthiness, credit score, value of any collateral and/or third party guarantee. The value of collateral is computed using a formula that takes into account the appraised value of the collateral, any prior liens or other claims against the collateral and an adjustment factor based on a number of considerations including, with respect to property, the average value of any nearby property sold in a court-supervised auction during the previous year. Shinhan Bank revalues collateral when a secured loan is renewed or if a trigger event occurs with respect to the loan in question.

Table of Contents***Pricing***

Shinhan Bank determines the price for its corporate loan products based principally on their respective cost of funding and the expected loss rate based on the borrower's credit risk. As of December 31, 2018, 61.7% of Shinhan Bank's corporate loans with outstanding maturities of one year or more had variable interest rates as determined by the applicable market rates.

More specifically, interest rates on Shinhan Bank's corporate loans are generally determined as follows:

Interest rate = (Shinhan Bank's periodic market floating rate *or* reference rate) *plus* transaction cost *plus* credit spread *plus* risk premium *plus or minus* discretionary adjustment.

Depending on the market condition and the agreement with the borrower, Shinhan Bank may use either its periodic market floating rate or the reference rate as the base rate in determining the interest rate for the borrower. As of December 31, 2018, Shinhan Bank's periodic market floating rates (which are based on a base rate determined for a three-month, six-month, one-year, two-year, three-year or five-year period, as applicable, as derived using Shinhan Bank's market rate system) were 1.92% for three months, 1.95% for six months, 1.98% for one year, 2.01% for two years, 2.03% for three years and 2.07% for five years. As of the same date, Shinhan Bank's reference rate was 4.75%. The reference rate refers to the base lending rate used by Shinhan Bank and is determined annually by Shinhan Bank's Asset & Liability Management Committee based on, among others, Shinhan Bank's funding costs, cost efficiency ratio and discretionary margin.

Transaction cost reflects the standardized transaction cost assigned to each loan product and other miscellaneous costs, including contributions to the Credit Guarantee Fund, and education taxes. The Credit Guarantee Fund is a statutorily created entity that provides credit guarantees to loans made by commercial banks and is funded by mandatory contributions from commercial banks in the amount of approximately 0.22% of all loans (excluding certain loans such as facility loans) made by them.

The credit spread is added to the periodic floating rate to reflect the expected loss based on the borrower's credit rating and the value of any collateral or payment guarantee. In addition, Shinhan Bank adds a risk premium which takes into account the potential of unexpected loss that may exceed the expected loss from the credit rating assigned to a particular borrower.

A discretionary adjustment rate is added or subtracted to reflect the borrower's current and/or future contribution to Shinhan Bank's profitability. If additional credit is provided by way of a guarantee, the adjustment rate is subtracted to reflect such change in the credit spread. In addition, depending on the price and other terms set by competing banks for similar borrowers, Shinhan Bank may reduce the interest rate to compete more effectively with other banks.

International Business

Shinhan Bank also engages in treasury and investment activities in international capital markets, principally including foreign currency-denominated securities trading, foreign exchange trading and services, trade-related financial services, international factoring services and foreign banking operations through its overseas branches and subsidiaries. Shinhan Bank aims to become a leading bank in Asia and expand its international business by focusing on further bolstering its overseas network, localizing its overseas operations and diversifying its product offerings, particularly in terms of asset management, in order to meet the various financing needs of its current and potential customers overseas.

Other Banking Services

Other banking businesses carried on by Shinhan Bank include treasury business (including internal asset and liability management and other non-deposit funding activities), trading of, and investment in, debt securities and, to a lesser extent, equity securities for its own accounts, derivative trading activities, as well as managing back-office functions.

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Treasury

Shinhan Bank's treasury division provides funds to all of Shinhan Bank's business operations and ensures the liquidity of its operation. To secure stable long-term funds, Shinhan Bank uses fixed and floating rate notes, debentures, structured financing and other advanced funding methods. As for overseas funding, Shinhan Bank closely monitors the feasibility of raising funds in currencies other than the U.S. Dollar, such as the Japanese Yen and the Euro. In addition, Shinhan Bank makes call loans and borrows call money in the short-term money market. Call loans are short-term lending among banks and financial institutions in either Korean Won or foreign currencies with a minimum transaction amount of ₩100 million and maturities of typically one day.

Securities Investment and Trading

Shinhan Bank invests in and trades securities for its own accounts in order to maintain adequate sources of liquidity and to generate interest income, dividend income and capital gains. Shinhan Bank's trading and investment portfolios consist primarily of Korean treasury securities and debt securities issued by Korean government agencies, local governments or certain government-invested enterprises, debt securities issued by financial institutions and equity securities listed on the KRX KOSPI Market and KRX KOSDAQ Market of the Korea Exchange. For a detailed description of our securities investment portfolio, see Description of Assets and Liabilities Investment Portfolio.

Derivatives Trading

Shinhan Bank provides to its customers, and to a limited extent, trades for its proprietary accounts, a broad range of derivatives products, which include:

interest rate swaps, options, and futures relating to Korean Won interest rate risks and LIBOR risks, respectively;

cross-currency swaps, largely for Korean Won against U.S. Dollars, Japanese Yen and Euros;

equity and equity-linked options;

foreign currency forwards, options and swaps;

commodity forwards, swaps and options;

credit derivatives; and

KOSPI 200 indexed equity options.

Shinhan Bank's outstanding derivatives commitments in terms of notional amount were ₩174,866 billion, ₩183,457 billion and ₩233,655 billion in 2016, 2017 and 2018, respectively. Such derivative operations generally

focus on addressing the needs of Shinhan Bank's corporate clients to enter into derivatives contracts to hedge their risk exposure and entering into back-to-back derivatives to hedge Shinhan Bank's risk exposure that results from such client contracts.

Shinhan Bank also enters into derivative contracts to hedge the interest rate and foreign currency risk exposures that arise from its own assets and liabilities. In addition, to a limited extent, Shinhan Bank engages in the proprietary trading of derivatives within its regulated open position limits. See Description of Assets and Liabilities - Derivatives.

Trust Account Management Services

Overview

Shinhan Bank's trust account management services involve management of trust accounts, primarily in the form of money trusts. Trust account customers are typically individuals seeking higher rates of return than those

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offered by bank account deposits. Because deposit reserve requirements do not apply to deposits held in trust accounts as opposed to deposits held in bank accounts, and regulations governing trust accounts tend to be less strict, Shinhan Bank is generally able to offer higher rates of return on trust account products than on bank deposit products. However, in recent years, due to the ongoing low interest environment, Shinhan Bank has not been able to offer attractive rates of return on its trust account products.

Trust account products generally require higher minimum deposit amounts than those required by comparable bank account deposit products. Unlike bank deposit products, deposits in trust accounts are invested primarily in securities (consisting principally of debt securities and beneficiary certificate for real estate financing) and, to a lesser extent, in loans, as the relative shortage of funding sources require that trust accounts be invested in a higher percentage of liquid assets.

Under the Banking Act, the Financial Investment Services and Capital Markets Act and the Trust Act, assets in trust accounts are required to be segregated from other assets of the trustee bank and are unavailable to satisfy the claims of the depositors or other creditors of such bank. Accordingly, trust accounts that are not guaranteed as to principal (or as to both principal and interest) are accounted for and reported separately from the bank accounts. See *Supervision and Regulation*. Trust accounts are regulated by the Trust Act and the Financial Investment Services and Capital Markets Act, and most national commercial banks offer similar trust account products. Shinhan Bank earns income from trust account management services, which is recorded as net trust management fees.

As of December 31, 2016, 2017 and 2018, Shinhan Bank had total trust assets of ₩45,058 billion, ₩58,536 billion and ₩76,161 billion respectively, comprised principally of securities investments of ₩10,885 billion, ₩16,870 billion and ₩22,479 billion respectively; real property investments of ₩8,914 billion, ₩12,053 billion and ₩14,154 billion, respectively; and loans with an aggregate principal amount of ₩472 billion, ₩469 billion and ₩528 billion, respectively. Securities investments consisted of corporate bonds, government-related bonds and other securities, primarily commercial paper. As of December 31, 2016, 2017 and 2018, debt securities accounted for 22.9%, 27.3% and 28.5%, respectively, and equity securities constituted 1.3%, 1.5% and 1.1%, respectively, of Shinhan Bank's total trust assets. Loans made by trust accounts are similar in type to those made by bank accounts, except that they are made only in Korean Won. As of December 31, 2016, 2017 and 2018, 52.1%, 57.1% and 57.8%, respectively, of the amount of loans from the trust accounts were collateralized or guaranteed. In making investment from funds received for each trust account, each trust product maintains investment guidelines applicable to each such product which set forth, among other things, company-, industry- and security-specific limitations.

Trust Products

In Korea, trust products typically take the form of money trusts, which are discretionary trusts over which (except in the case of a specified money trust) the trustees have investment discretion subject to applicable law and is commingled and managed jointly for each type of trust account. The specified money trusts are established on behalf of customers who give specific directions as to how their trust assets should be invested.

Money trusts managed by Shinhan Bank's trust account business amounted to ₩29,476 billion, ₩37,700 billion and ₩44,290 billion as of December 31, 2016, 2017 and 2018, respectively.

Shinhan Bank offers variable rate trust products through its retail branch network. As of December 31, 2016, 2017 and 2018, Shinhan Bank's variable rate trust accounts amounted to ₩25,634 billion, ₩33,720 billion and ₩40,270 billion, respectively, of which principal guaranteed variable rate trust accounts amounted to ₩3,841 billion, ₩3,979 billion and ₩4,019 billion, respectively. Variable rate trust accounts offer their holders variable rates of return on the principal amount of the deposits in the trust accounts and do not offer a guaranteed return on the principal of deposits,

except in the limited cases of principal guaranteed variable rate trust accounts, for which payment of the principal amount is guaranteed. Shinhan Bank charges a lump sum or a fixed

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percentage of the assets held in such trusts as a management fee, and, depending on the trust products, is also entitled to additional fees in the event of early termination of the trusts by the customer. Korean banks, including Shinhan Bank, are currently allowed to guarantee the principal of the following types of variable rate trust account products: (i) existing individual pension trusts, (ii) new individual pension trusts, (iii) existing retirement pension trusts, (iv) new retirement pension trusts, (v) pension trusts and (vi) employee retirement benefit trusts. Shinhan Bank also offers an insignificant amount of guaranteed fixed rate trust products (amounting to ₩1.0 billion, ₩1.0 billion and ₩1.0 billion as of December 31, 2016, 2017 and 2018, respectively), which provide to its holders a guaranteed return of the principal as well as a guaranteed fixed rate of return. These products are carry-overs from past offerings, and Shinhan Bank no longer offers guaranteed fixed rate trust products.

Credit Card Services
Products and Services

We currently provide our credit card services principally through our credit card subsidiary, Shinhan Card, and to a limited extent, Jeju Bank.

Shinhan Card offers a wide range of credit card and other services, principally consisting of the following:

credit card services, which involve providing cardholders with credit up to a preset limit to purchase products and services. Repayment for credit card purchases may be made either (i) on a lump-sum basis, namely, in full at the end of a monthly billing cycle or (ii) on a revolving basis subject to a minimum monthly payment. The minimum monthly payment for holders of credit cards issued before December 30, 2014 is the greater of (x) 5% to 20% of the amount outstanding (depending on the cardholder's credit) or (y) ₩30,000. The minimum monthly payment for holders of credit cards issued on or after December 30, 2014 is the greater of (x) 10% to 20% of the amount outstanding (depending on the cardholder's credit) or (y) ₩50,000. Currently, the outstanding credit card balance subject to the revolving basis payments generally accrues interest at the effective annual rates of approximately 5.4% to 23.9%.

cash advances, which enable the cardholders to withdraw cash subject to a preset limit from an ATM machine or a bank branch. Repayments for cash advances may be made either on a lump-sum basis or, in the case of credit cards issued before December 30, 2014, on a revolving basis. Currently, the lump-sum cash advances generally accrue interest at the effective annual rates of approximately 6.1% to 23.9% and the revolving cash advances generally accrue interest at a minimum rate of 5% to 20% of the outstanding balance (depending on the cardholder's credit).

installment purchases, which provide customers with an option to purchase products and services from select merchants on an installment basis for which repayments must be made in equal amounts over a fixed term generally ranging from two to 24 months, and for certain limited types of cards, up to 36 months. Currently, the outstanding installment purchase balances generally accrue interest at the effective annual rates of approximately 9.5% to 20.9%.

card loans, which enable cardholders to receive, up to a preset limit, a loan which is generally unsecured. Repayment of card loans is made generally by (i) repaying principal and interest in equal amounts on an installment basis over a fixed term of two to 36 months, (ii) repaying the principal and interest amounts in full at maturity, or (iii) making interest-only payments during the initial grace period of either three months or six months and repaying the principal and interest amounts on a monthly installment basis over the remaining period of typically two to 36 months. Currently, the outstanding card loan balances generally accrue interest at the effective annual rates of approximately 6.16% to 23.9%. Delinquent credit card receivables can also be restructured into loans, which we classify as card loans, and these loans generally accrue interest at the effective annual rates of approximately 11.9% to 19.5% over a fixed term whose maximum is 72 months.

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Shinhan Card derives revenues from annual membership fees paid by credit cardholders, interest charged on credit card balances, fees and interest charged on cash advances and card loans, interest charged on late and deferred payments and merchant fees paid by retail and service establishments. Merchant fees and interest on cash advances constitute the largest source of revenue.

The annual membership fees for credit cards vary depending on the type of credit card and the benefits offered thereunder. For standard credit cards and most of the affinity and co-branded cards, Shinhan Card charges an annual membership fee ranging from ₩2,000 to ₩1,000,000 per credit card, depending on the type of the card and the cardholder profile. Certain government affinity cards have no annual membership fee. If Shinhan Card's customers make cash advances using ATMs of a financial institution other than Shinhan Card, Shinhan Card also charges a usage fee for such cash advances in an amount equivalent to the fees charged by such financial institution for the use of its ATM plus costs to cover Shinhan Card's related administration expenses.

Any accounts that are unpaid when due are deemed to be delinquent accounts, for which Shinhan Card levies a late charge in lieu of the interest rates applicable prior to default. The late charge rate currently ranges from 8.4% to 24.0% per annum. Since the first half of 2018, instead of levying a late charge in lieu of interest rates prior to default, Shinhan Card maintains the interest rates prior to default but adds a late charge rate of 3% in addition to the interest rates prior to default.

Merchant discount fees, which are processing fees Shinhan Card charges to merchants, can be up to the regulatory limit of 2.3% of the purchased amount depending on the merchant used, with the average charge for credit cards being 1.6% in 2018. For small- and medium-sized merchants, the applicable regulations impose reduced fee rates of 0.8% (in the case of merchants with annual sales of ₩300 million or less) and 1.3% (in the case of merchants with annual sales of more than ₩300 million and up to ₩500 million), respectively, of the purchased amount.

Although making payments on a revolving basis is more common in many other countries, this payment method is still in its early stages of development in Korea. Cardholders in Korea are generally required to repay their purchases within approximately 14 to 44 days of purchase depending on their payment cycle, except in the case of installment purchases where the repayment term is typically three to six months. Accounts that remain unpaid after this period are deemed to be delinquent, and Shinhan Card levies late charges on and closely monitors such accounts. For purchases made on an installment basis, Shinhan Card charges interest on unpaid amounts at rates that vary according to the terms of repayment.

Cardholders are required to settle their outstanding balances in accordance with the terms of the credit cards they hold. Cardholders are required to select the monthly settlement date when they open the credit card account and may subsequently change the settlement date but no more than once every 60 days. Settlement dates at or around the end of each month are the most popular since salaries are typically paid at the end of the month.

In addition to credit card services, Shinhan Card also offers check cards, which are similar to debit cards in the United States and many other countries, to retail and corporate customers. A check card can be used at any of the merchants that accept credit cards issued by Shinhan Card and the amount charged to a check card is directly debited from the cardholder's designated bank account. Check cards have a low risk of default and involve minimal funding costs. Although Shinhan Card does not charge annual membership fees on check cards, merchants are charged fees on the amount purchased using check cards at a rate between 0.50% and 2.50%, depending on the type of business, which is lower than the corresponding fee charged for credit card use.

Credit Card Products

Shinhan Card offers a wide range of credit card products tailored for credit cardholders' lives and to satisfy their preferences and needs. Credit card products offered by Shinhan Card include:

cards that provide additional benefits such as frequent flyer miles and reward program points that can be redeemed by the customer for complementary services, prices or cash;

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platinum cards and other preferred membership cards, which have higher credit limits and provide additional services in return for higher annual membership fees;

cards with additional features to preferred customers, such as revolving credit cards, travel services and insurance;

cards with fraud detection and security systems to prevent the misuse of credit cards and to encourage the use of credit cards over the Internet;

corporate and affinity cards that are issued to employees or members of particular companies or organizations; and

mobile phone cards allowing customers to conduct wireless credit card transactions through their mobile phones.

Customers and Merchants

In addition to internal growth through cross-selling, we seek to enhance our market position by selectively targeting new customers with high net-worth and solid credit quality through the use of a sophisticated and market-oriented risk management system. Shinhan Card screens its credit card applicants and sets individualized credit limits for such applicants according to internal guidelines based on a comprehensive credit scoring system. We also seek to provide a wide variety of differentiated products and services tailored to our customers' individualized needs through precision analysis and customer segmentation based on the big data we have compiled on our approximately 22 million customers. We have also formed a team dedicated to the fintech business by actively pursuing technology developments and strategic alliances with key partners as well as additional teams focused on innovation and creating new sources of value for our clients through the development of big data and digital platforms and provision of big data-based consulting services.

The following table sets forth the number of customers of Shinhan Card and the number of merchants at which Shinhan Card can be used for purchases as of the dates indicated.

	As of December 31,		
	2016	2017	2018
	(In thousands, except percentages)		
Shinhan Card:			
Number of credit card holders ⁽¹⁾	12,216	12,424	12,701
Personal accounts	12,097	12,295	12,495
Corporate accounts	119	129	206
Active ratio ⁽²⁾	97.3%	96.3%	96.1%
Number of merchants	2,626	2,724	2,810

Notes:

- (1) Represents the number of cardholders whose card use is not subject to suspension or termination as of the relevant date.
 - (2) Represents the ratio of accounts used at least once within the last six months to the total accounts as of year-end.
- Installment Finance*

Shinhan Card provides installment finance services to customers to facilitate purchases of durable consumer goods such as new and used cars, appliances, computers and other home electronics products. Revenues from installment finance operations accounted for 2.91% of Shinhan Card's total operating revenue in 2018. Shinhan Card pays the merchants when Shinhan Card's customers purchase such goods, and the customers remit monthly installment payments to Shinhan Card over a number of months, generally up to 36 months (and, in the case of

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installment financings for automobile purchases, up to 72 months), as agreed with the customers. For installment finance products for new cars, Shinhan Card historically charged, in addition to interest, an initial financing fee of up to 9.9% of the purchase price, depending on the customer's credit score, the installment period and installment amount. Initial financing fees charged in connection with installment finance products for new cars, however, were abolished effective March 2, 2013 pursuant to the Financial Consumer Report (Automobile Financings) issued by the Financial Supervisory Service on January 29, 2013. Shinhan Card has installment financing arrangements with over 10,000 merchants in Korea, including major car dealers, manufacturers and large retailers with nationwide networks, such as electronics goods stores.

Shinhan Card promptly processes installment financing applications and, based on the extensive credit information it possesses or can access, it is able to offer flexible installment payment terms tailored to individual needs of the customers. Shinhan Card also devotes significant efforts to developing and maintaining its relationships with merchants, which are the most important source of referrals for installment finance customers. Shinhan Card makes prompt payments to merchants for goods purchased by the installment finance customers.

Auto Lease

Shinhan Card provides auto leasing financing to retail customers and corporations. Revenues from auto lease operations accounted for 1.15%, 1.39% and 3.37% of Shinhan Card's total operating revenue in 2016, 2017 and 2018, respectively.

Securities Brokerage Services***Overview***

Through Shinhan Investment, we provide a wide range of financial investment services to our diversified customer base including corporations, institutional investors, governments and individuals. Financial investment services offered by Shinhan Investment range from securities brokerage services, investment advice and financial planning services, and investment banking services such as underwriting and mergers and acquisitions advisory services. Subject to market conditions, Shinhan Investment also engages in equity- and stock index-linked derivatives sales and brokerage, proprietary trading and brokerage services for futures involving interest rates, currency and commodities as well as foreign exchange margin trading.

As of December 31, 2018, according to internal data, Shinhan Investment's annual market share of Korean equity brokerage market was 5.89% (consisting of 2.36% in the retail segment, 0.71% in the institutional segment and 2.82% in the international segment) in terms of total brokerage volume, ranking eighth among securities firms in Korea. As of the same date, according to internal data, Shinhan Investment held the seventh largest annual market share in the options brokerage segment and the second largest annual market share in the KOSPI 200 futures segment of 6.82% and 9.60%, respectively, in terms of total brokerage volume with respect to these products.

Products and Services

Shinhan Investment provides principally the following services:

retail client services. These services include equity and bond brokerage, investment advisory and financial planning services to retail customers, with a focus on high net-worth individuals. The fees generated include

brokerage commissions for the purchase and sale of securities, asset management fees, interest income from credit extensions (including in the form of stock subscription loans), margin transaction loans and loans secured by deposited securities.

institutional client services:

brokerage services. These services include brokerage of stocks, corporate bonds, futures and options provided to Shinhan Investment's institutional and international customers and sale of

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institutional financial products. These services are currently supported by a team of approximately 69 research analysts that specialize in equity, bonds and derivatives research.

investment banking services. These services include a wide array of investment banking services to Shinhan Investment's corporate customers, such as domestic and international initial public offerings, mergers and acquisitions advisory services, bond issuances, underwriting, capital increase, asset-backed securitizations, issuance of convertible bonds and bonds with warrants, structured financing, issuance of asset-backed commercial papers and project financings involving infrastructure, real estate and shipbuilding.

Shinhan Investment also engages, to a limited extent, in proprietary trading in equity and debt securities, derivative products and over-the-counter market products.

With respect to brokerage services, in the face of intense competition in the domestic brokerage industry, Shinhan Investment primarily focuses on strengthening profitability through service differentiation and efficient management of its distribution network rather than enlarging its market share indiscriminately through lowering fees and commissions. Shinhan Investment's service differentiation efforts include offering its customers opportunities to purchase stocks in a wide range of countries (currently more than 28 countries), leveraging synergy opportunities afforded by affiliation with other Shinhan entities such as offering brokerage accounts maintained at Shinhan Bank and Shinhan Capital.

With respect to investment banking services, Shinhan Investment concentrates on equity capital markets, debt capital markets, project finance and mergers and acquisitions. To a limited extent, Shinhan Investment also engages in private equity investments through formation of private equity funds by soliciting investors on a private placement basis. To better serve its international customers, Shinhan Investment has established four overseas service centers in Hong Kong, New York, Vietnam and Indonesia. In July 2015, we acquired a 100% stake in Nam An Securities (subsequently launched as Shinhan Securities Vietnam Co., Ltd.), a Vietnamese securities services firm that provides investment banking and asset management services. In addition, in order to capitalize on the rapid growth opportunity and as part of its expansion efforts in Indonesia, Shinhan Investment acquired a 99% stake in PT Makinta Securities, an Indonesian investment banking firm in July 2016 and subsequently launched it as an overseas subsidiary offering investment banking and brokerage services under the name PT Shinhan Sekuritas Indonesia in December 2016. To further expand and stabilize our global businesses, we made further capital investments totaling US\$62 million in December 2017 in our subsidiaries located in Hong Kong, New York, Vietnam and Indonesia. In 2018, we acquired PT Archipelago Asset Management, the first acquisition of an Indonesian asset management firm by a Korean financial group, which we believe will strengthen our business portfolio in Indonesia and enhance our competitiveness in the Asian financial markets.

Life Insurance Services

We provide life insurance products and services primarily through Shinhan Life Insurance. Shinhan Life Insurance provides its services through diversified distribution channels consisting of financial planners, telemarketers, agency marketers and bancassurance specialists. Shinhan Life Insurance had total assets of ₩27,500 billion, ₩29,719 billion and ₩31,824 billion as of December 31, 2016, 2017 and 2018, respectively, and net profits of ₩151 billion, ₩121 billion and ₩131 billion for the years ended December 31, 2016, 2017 and 2018, respectively.

Other Services

Through our other subsidiaries, we also provide asset management, leasing and equipment financing, savings banking, loan collection and credit reporting, collective investment administration and financial system development services. Through Shinhan Alternative Investment Management (in addition to Shinhan Investment), we are also engaged in alternative investments through formation of private equity funds by soliciting investors on a private placement basis.

Table of Contents*Asset Management Services*

In addition to personalized wealth management services provided as part of our private banking and securities brokerage services, we also provide asset management services through Shinhan BNP Paribas Asset Management, a joint venture with BNP Paribas Asset Management Holding, of which we and BNP Paribas Asset Management Holding hold 65:35 interests, respectively. Shinhan BNP Paribas Asset Management ranked fifth among asset managers in Korea in terms of assets under management as of December 31, 2018, and provides a wide range of investment products, including traditional equity/fixed income funds as well as alternative investment products, to retail and institutional clients. As a joint venture with BNP Paribas Asset Management Holding, we believe Shinhan BNP Paribas Asset Management derives significant benefits from BNP Paribas's global network of investment professionals and expertise in the asset management industry. As of December 31, 2018, Shinhan BNP Paribas Asset Management had assets under management amounting to ₩45,992 billion. To a limited extent, Shinhan Investment also provides asset management services for discretionary accounts, see Securities Brokerage Services.

Leasing and Equipment Financing

We provide leasing and equipment financing services to our corporate customers mainly through Shinhan Capital. Shinhan Capital provides customers with leasing, installment financing and new technology financing, equipment leasing, and corporate credit financing. Shinhan Capital's strength has traditionally been in leasing of ships, printing machines, automobiles and other specialty items, but it also offers other leasing and financing services, such as corporate restructuring services for financially troubled companies, project financing for real estate and infrastructure development, corporate leasing and equipment financing.

Savings Banking

Through Shinhan Savings Bank, we provide savings banking services in accordance with the Mutual Savings Bank Act to customers that generally would not, due to their credit profile, qualify for our commercial banking services or who seek higher returns on their deposits than those offered by our commercial banking subsidiaries. Established in December 2011, Shinhan Savings Bank offers savings and other deposit products with relatively higher interest rates and loans (usually in relatively small amounts and on customer-tailored terms and including loans for which we receive credit support from the Government) primarily to small- to medium-sized enterprises and low income households who would not generally qualify for our commercial banking services. Shinhan Savings Bank has assumed the assets and liabilities of Tomato Savings Bank, which we acquired in January 2012, and has merged into Yehanbyoul Savings Bank, which we acquired in March 2013, with Yehanbyoul Savings Bank as the surviving entity with its name changed to Shinhan Savings Bank. Both Tomato Savings Bank and Yehanbyoul Savings Bank were facing liquidity troubles due to difficulties in the real estate project financing business as a result of the prolonged slump in the Korean real estate market at the time we acquired them. We closely monitor the business activities and product offerings of Shinhan Savings Bank to ensure its financial soundness.

Loan Collection and Credit Reporting

We centralize credit collection and credit reporting operations for our subsidiaries through Shinhan Credit Information Co. Ltd., which also provides similar services to third party customers. Shinhan Credit Information's services include debt collection, credit inquiries, credit reporting, civil application/petition services and process agent services, among others. Shinhan Credit Information also manages participants in credit recovery programs and provides support to the Kookmin Happy Fund, which is a Government-established fund that supports retail borrowers with low credit scores by purchasing defaulted loans from creditors or providing credit guarantees to enable such borrowers to refinance at lower rates.

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We provide integrated collective investment administration services through Shinhan AITAS Co., Ltd. Shinhan AITAS provides general management service, asset management systems, accounting systems and trading systems to asset management companies and institutional investors. The target customers for these collective investment administration services are asset managers, investment advisors and institutional investors, and Shinhan AITAS seeks to provide a comprehensive service package including the computation of the reference value for funds, evaluation of fund performance, provision of trading systems and fund-related legal administrative services.

Alternative Investments

To a limited extent, through Shinhan Alternative Investment Management, we are also engaged in private equity investments through formation of private equity funds. The private equity funds receive funding from investors on a private placement basis, which funds are then invested in alternative assets and equity securities in companies for a variety of reasons, including management control, business turnaround or corporate governance improvements.

Financial System Development Services

We provide financial system development services through Shinhan DS, which offers system integration, system management, IT outsourcing, business process outsourcing and IT consulting services.

Real Estate Investment Trust (REIT) Asset Management

Through our wholly owned subsidiary, Shinhan REITs Management Co., Ltd., we provide real estate investment and management services to real estate investment trusts.

Our Distribution Network

We offer a wide range of financial services to retail and corporate customers through a variety of distribution networks and channels established by our subsidiaries. The following table presents the geographical distribution of our distribution network based on the branch offices and other distribution channels of our principal subsidiaries, as of December 31, 2018.

<i>Distribution Channels in Korea</i> ⁽¹⁾	Shinhan Bank	Jeju Bank	Shinhan Card	Shinhan Investment	Shinhan Life Insurance	Total
Seoul metropolitan	351	2	7	54	51	465
Gyeonggi province	192		4	19	32	247
Six major cities:	168	1	6	22	48	245
Incheon	59		1	3	13	76
Busan	38	1	1	6	15	61
Gwangju	13		1	3	6	23
Daegu	24		1	4	5	34
Ulsan	14		1	3	2	20
Daejeon	20		1	3	7	31

Sub-total	711	3	17	95	131	957
Others	154	35	6	19	50	264
Total	865	38	23	114	181	1,221

Note:

(1) Includes our main office and those of our subsidiaries.

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Banking Service Channels

Our banking services are primarily provided through an extensive branch network, specializing in retail and corporate banking services, as complemented by self-service terminals and electronic banking, as well as an overseas services network.

As of December 31, 2018, Shinhan Bank's branch network in Korea comprised of 876 service centers, consisting of our headquarters, 679 retail banking service centers, 12 large corporate banking service centers, 49 corporate banking services centers and 136 hybrid banking branches designed to serve retail as well as small-business corporate customers. Shinhan Bank's banking branches are designed to provide one-stop banking services tailored to their respective target customers. Recently, Shinhan Bank has been actively adopting digital technology to improve operational efficiency of its banking service channels. For example, Shinhan Bank introduced digital kiosks to banking branches, established Paperless Banking by replacing paper applications with electronic documents, implemented a robotic process automation system for the automation of certain tasks and processes and increased the volume of client communications through non-face-to-face platforms.

Retail Banking Channels

In Korea, many retail transactions are conducted in cash or with credit cards, and conventional checking accounts are generally not offered or used as widely as in other countries such as the United States. An extensive retail branch network has traditionally played an important role as the main platform for a wide range of banking transactions. However, a growing number of customers are turning to other service channels to meet their banking needs, such as Internet banking, mobile banking and other forms of non-face-to-face platforms. In response to such changes, Shinhan Bank has recently focused on reorganizing its retail branch network, including shifting, merger or closure of certain branches that are considered redundant.

Recently, one of the key initiatives at Shinhan Bank has been to target high net-worth individuals through private banking. Our private banking services are provided principally through private banking relationship managers who, within target customer groups, assist clients in developing individual investment strategies. We believe that such relationship managers help us foster enduring relationships with our clients. Private banking customers also have access to Shinhan Bank's retail branch network and other general banking products Shinhan Bank offers through its retail banking operations.

Corporate Banking Channels

Shinhan Bank currently provides corporate banking services through corporate banking service centers primarily designed to serve large corporate customers and hybrid banking branches designed to serve retail as well as small-business corporate customers. Small- and medium-sized enterprises have traditionally been Shinhan Bank's core corporate customers and we plan to continue to maintain Shinhan Bank's strength vis-à-vis these customers.

Self-Service Terminals

In order to complement its banking branch network, Shinhan Bank maintains an extensive network of automated banking machines, which are located in branches and in unmanned outlets. These automated banking machines consist of ATMs, cash dispensers and passbook printers. In December 2015, Shinhan Bank introduced digital kiosks, a new generation of automated self-service machines in the Seoul metropolitan area featuring biometric authentication technology and the ability to perform a wide range of services that were not available through traditional ATMs, such as opening new accounts, issuance of debit and check cards, foreign currency exchange and overseas remittance of

foreign currency. These digital kiosks are currently being operated at 41 branches in the Seoul metropolitan area. As of December 31, 2018, Shinhan Bank had 5,810 ATMs, 13 cash dispensers and 46 digital kiosks. Shinhan Bank has actively promoted the use of these distribution outlets in

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order to provide convenient service to customers, as well as to maximize the marketing and sales functions at the branch level, reduce employee costs and improve profitability. In 2018, automated banking machine transactions accounted for a substantial portion of total deposit and withdrawal transactions of Shinhan Bank in terms of the number of transactions and fee revenue generated, respectively.

Electronic Banking

Shinhan Bank's Internet banking services are more comprehensive than those available at the counter, including such services as 24 hour account balance posting, real-time account transfer, overseas remittance and loan requests. Shinhan Bank also offers mobile banking services in order to enable customers to make speedy, convenient and secure banking transactions using mobile phones. As of December 31, 2018, Shinhan Bank had 18,376,152 subscribers to its Internet banking services and 13,994,499 users of its smart banking apps, representing an increase of 8.1% and 9.7%, respectively, compared to December 31, 2017. Shinhan Bank continues to experience a rise in the number of online and mobile banking users. Shinhan Bank began offering online and mobile banking initially with a view to saving costs rather than increasing revenues, but is currently exploring ways to leverage the possibility of increase revenues through online and mobile banking given that these services offer customers with easier and more convenient access to banking services without limitations of time and space as well as offer tailored and customized service to each customer. In September 2017, Shinhan Bank launched Shinhan Tong, a new mobile and web based platform that is more user friendly and easier to access than previous platforms and does not require additional applications or certifications. Shinhan Tong utilizes mobile identification and non-face-to-face identity authentication technology, which allows users to open new bank accounts, exchange currencies and use other services such as credit card application services without having to visit a physical bank branch. In February 2018, Shinhan Bank launched SOL, a new mobile banking application integrating Shinhan Bank's six previously existing mobile applications such as the Shinhan S Bank and Sunny Bank applications. SOL is the cumulation of Shinhan Bank's efforts to provide a customer oriented and user friendly mobile banking platform and features, among others, easy-to-use biometric and non-face-to-face identity authentication technology.

Table of Contents*Overseas Distribution Network*

The table below sets forth Shinhan Bank's overseas banking subsidiaries and branches as of December 31, 2018.

Business Unit	Location	Year Established or Acquired
<i>Subsidiaries</i>		
Shinhan Asia Ltd.	Hong Kong SAR, China	1982
Shinhan Bank Europe GmbH ⁽¹⁾	Frankfurt, Germany	1994
Shinhan Bank America	New York, U.S.A.	1990
Shinhan Bank (China) Limited	Beijing, China	2008
Shinhan Khmer Bank PLC	Phnom Penh, Cambodia	2007
Shinhan Bank Kazakhstan Limited	Almaty, Kazakhstan	2008
Shinhan Bank Canada	Toronto, Canada	2009
Shinhan Bank Japan ⁽²⁾	Tokyo, Japan	2009
Shinhan Bank Vietnam Ltd. ⁽³⁾	Ho Chi Minh City, Vietnam	2011
Banco Shinhan de Mexico ⁽⁴⁾	Mexico City, Mexico	2015
PT Bank Shinhan Indonesia ⁽⁵⁾	Jakarta, Indonesia	2016
<i>Branches</i>		
New York	U.S.A.	1989
Singapore	Singapore	1990
London	United Kingdom	1991
Mumbai	India	1996
Hong Kong	China	2006
New Delhi	India	2006
Kancheepuram	India	2010
Pune	India	2014
Manila	Philippines	2015
Dubai	United Arab Emirates	2015
Sydney	Australia	2016
Yangon	Myanmar	2016
Ahmedabad	India	2016
Ranga Reddy	India	2016
<i>Representative Offices⁽⁶⁾</i>		
Mexico	Mexico City, Mexico	2008
Uzbekistan	Tashkent, Uzbekistan	2009
Poland ⁽¹⁾	Wroclaw, Poland	2014

Notes:

- (1) Shinhan Bank Europe GmbH established a representative office in Poland in 2014.
- (2) While Shinhan Bank established the subsidiary in Japan in 2009, Shinhan Bank has provided banking services in Japan through a branch structure since 1986.
- (3) Prior to the establishment of this subsidiary in 2011, Shinhan Bank provided banking services in Vietnam through a branch since 1995.
- (4) Banco Shinhan de Mexico commenced operations in March 2018.
- (5) Shinhan Bank acquired a 98.01% stake in Bank Metro Express and a 100% stake in Centratama Nasional Bank, two banks in Indonesia, in November 2015 and December 2016, respectively. On March 3, 2016,

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Bank Metro Express obtained a license to conduct business activities in the name of PT Shinhan Bank Indonesia. Centratama Nasional Bank was merged with PT Bank Shinhan Indonesia on December 6, 2016.

(6) Shinhan Bank's representative office in Myanmar was closed as of June 8, 2018.

Currently, our overseas subsidiaries and branches are primarily engaged in trade financing and local currency funding for Korean companies and Korean nationals in the overseas markets, as well as providing foreign exchange services in conjunction with Shinhan Bank's headquarters. On a limited basis, these overseas branches and subsidiaries also engage in investment and trading of securities of foreign issuers. In the future, as part of our globalization efforts, we plan to expand our coverage of local customers in the overseas markets by providing a wider range of services in retail and corporate banking, and to that end, we have increasingly established subsidiaries in lieu of branches in select markets and in 2011 merged two of our Vietnam banking subsidiaries in order to enhance our presence and enable greater flexibility in its service offerings in these markets. We plan to maintain our focus on organic growth, while we may selectively pursue acquisitions in markets where it is difficult to obtain local banking licenses through greenfield entry. In furtherance of this objective, Shinhan Bank acquired a 98.01% stake in Bank Metro Express and a 100% stake in Centratama Nasional Bank, two banks in Indonesia, in November 2015 and December 2016, respectively. The Bank completed the merger of the two banks in December 2016. The Bank also opened additional branches in Australia, Myanmar and India in the second half of 2016. In April 2017, Shinhan Bank Vietnam Co., Ltd. acquired ANZ Bank (Vietnam) Limited's retail division. In 2017, Shinhan Bank became the first Korean Bank to obtain a license to set up a local subsidiary in Mexico and started local business in Mexico in March 2018. We plan to continue our efforts to expand our overseas banking service network and global operations.

Credit Card Distribution Channels

Shinhan Card primarily uses four distribution channels to attract new credit card customers: (i) the banking and credit card branch network, (ii) sales agents, (iii) business partnerships and affiliations with vendors and (iv) digital platforms such as Shinhan PayFAN.

The branch network for our credit card operations consisted of 876 branches as of December 31, 2018 of Shinhan Bank and 23 card sales branches of Shinhan Card. The use of the established distribution network of Shinhan Bank is part of the group-wide cross-selling efforts of selling credit card products to existing banking customers. In 2018, the number of new cardholders acquired through our banking distribution network accounted for approximately 24.9% of the total number of new cardholders. We believe that the banking distribution network will continue to provide a stable and low-cost venue for acquiring high-quality credit cardholders.

The sales agents represented the most significant source of Shinhan Card's new cardholders in 2018, and the number of new cardholders acquired through sales agents accounted for approximately 44.8% of the total number of Shinhan Card's new cardholders in 2018. As of December 31, 2018, Shinhan Card had 2,455 sales agents, who were independent contractors. These sales agents assist prospective customers with the application process and customer service. Compensation of these sales agents is generally tied to the transaction volume of the customers introduced by them, and we believe this system helps to enhance profitability.

As a way of acquiring new cardholders, Shinhan Card also has business partnership and affiliation arrangements with a number of vendors, including gas stations, major retailers, airlines and telecommunication and Internet service providers. Shinhan Card plans to continue to leverage its alliances with such vendors to attract new cardholders.

As part of a group-wide initiative to streamline our operations and create a digital-friendly business platform, Shinhan Card has strategically expanded its digital platforms. Shinhan Card launched Shinhan FAN, a mobile application providing consolidated financial services including strategic alliances, online and offline payment services, financing services such as installment financings for automobile purchases and a group-wide integrated customer reward

program, and subsequently upgraded the application to Shinhan PayFan in October

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2018 in order to better provide customized financial services aimed at meeting the comprehensive needs of customers and ultimately lead the mobile payment industry in Korea. In addition to providing traditional payment services, Shinhan PayFan utilizes digital technology such as artificial intelligence and big data to provide real-time customized services tailored to individual users and integrated access across services provided by various merchants and affiliates. Shinhan PayFan is able to provide most of the services provided through traditional customer service means such as call centers and website applications.

In November 2014, as an initial step to exploring potential opportunities overseas, Shinhan Card established its first overseas subsidiary in Kazakhstan, LLP MFO Shinhan Finance, as Kazakhstan was deemed to have relatively low entry barriers to foreign financial institutions, high growth potential for retail operations and the possibility of leveraging Shinhan Bank's network. LLP MFO Shinhan Finance obtained its business license in the first half of 2015 and commenced operations in July 2015, including installment financing and credit loans. In 2018, LLP MFO Shinhan Finance expanded its sales channels and introduced new credit loan products. In 2019, LLP MFO Shinhan Finance plans to further expand its sales coverage while enhancing its risk management capabilities.

In December 2015, Shinhan Card acquired a majority stake in PT Swadharma Indotama Finance, a multi finance company in Indonesia, and changed its legal name to PT Shinhan Indo Finance. PT Shinhan Indo Finance engages in corporate and retail operations, including installment financing and financial leases, and began offering credit card services in January 2017 after obtaining its credit card business license in December 2016. It is currently focusing on expanding its client base by utilizing the Shinhan Bank network as well as employees and clients of its affiliate company, the Salim Group. In 2018, PT Shinhan Indo Finance began to expand its retail business across Indonesia while maintaining a conservative approach for its credit card business given the high level of competition in the local market. In 2019, PT Shinhan Indo Finance plans to focus on further expanding its retail business and improving its financial performance.

In March 2016, to accelerate our global business expansion, we established Shinhan Microfinance, a local subsidiary in Myanmar. Shinhan Microfinance obtained its microfinance business license in July 2016 and launched operations in September 2016. In 2017, it expanded its business operations from Yangon to nearby Bago. In 2018, Shinhan Microfinance increased its assets and profit volume by diversifying the range of microfinance products it offers. In 2019, Shinhan Microfinance plans to actively expand its sales network and seek long term growth opportunities.

In January 2018, Shinhan Card acquired Prudential Vietnam Finance Company Limited to enter the consumer finance market in Vietnam. The acquisition was approved by the Vietnamese government in January 2019. As a result of the acquisition, Shinhan Card expects to gain a stronger presence in Vietnam and plans to strive for increased synergy with Shinhan Bank and Shinhan Investment, both of which already have operations in Vietnam.

Securities Brokerage Distribution Channels

Our securities brokerage services are conducted principally through Shinhan Investment. As of December 31, 2018, Shinhan Investment had 118 service centers nationwide, and four overseas subsidiaries based in Hong Kong, New York, Vietnam and Indonesia to service our corporate customers.

Approximately 48% of our brokerage branches are located in the Seoul metropolitan area with a focus on attracting high net-worth individual customers as well as enhancing synergy with our retail and corporate banking branch network. We plan to continue to explore new business opportunities, particularly in the corporate customer segment, through further cooperation between Shinhan Investment and Shinhan Bank.

Insurance Sales and Distribution Channels

We sell and provide our insurance services primarily through Shinhan Life Insurance. Shinhan Life Insurance, in addition to distributing bancassurance products through our bank branches, also distributes a wide

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range of life insurance products through its own branch network, an agency network of financial planners and telemarketers, as well as through the Internet. As of December 31, 2018, Shinhan Life Insurance had 155 branches and 8 customer support centers. These branches are staffed by financial planners, telemarketers, agent marketers and bancassurance to meet the various needs of our insurance and lending customers. Our group-wide customer support centers arrange for policy loans (namely loans secured by the cash surrender value of the underlying insurance policy) for our insurance customers and, to a limited extent, other loans to other customers, and also handle insurance payments.

Information Technology

We dedicate substantial resources to maintaining a sophisticated information technology system to support our operations management and provide high quality customer service. Our information and technology system is operated at a group-wide level based on comprehensive group-wide information collection and processing. We also operate a single group-wide enterprise information technology system known as enterprise data warehouse for customer relations management capabilities, risk management systems and data processing. We continually upgrade our group-wide information technology system in order to apply the best-in-class technology to our risk management systems to reflect the changes in our business environment as well as enhance differentiation from our competitors.

In 2013, we completed the construction of the Integrated Data Center, which is responsible for comprehensive management of information technology systems for our subsidiaries on a group-wide basis. This center ensures a stable use of a central information processing facilities for at least 15 years and is designed to maximize operational and cost efficiency as well as enhance information security by combining the various data centers previously used by our subsidiaries. All of our subsidiaries have completed relocation of their information management capabilities to this center by the first half of 2014.

In order to enhance security and trustworthiness of the financial services provided by us, we continually seek to enhance a group-wide set of standards for information security and upgrade the related systems. In 2008, we established group-wide information systems and policies, which have since been continually updated and upgraded. In 2014, we further upgraded the group-wide information security control tower to a best-in-class level and replaced most of our internal information security staff with highly qualified outside experts in order to reinforce our security defense capabilities in the event of cyber breaches. In addition, we have a team within our group to provide specialized data protection and related support services to our smaller operating subsidiaries, and we take active measures to preemptively forestall any security breaches through mock trials.

At the subsidiary level, we also continue to upgrade the information technology infrastructure and services for each of our subsidiaries to enhance the quality of our customer service specific to such subsidiary and thereby bolster their respective competitiveness, including with respect to electronic and mobile banking, online consultation, expanded sales services and customized informational services. In addition, we have recently strengthened our indirect service channels through a major upgrade of the corporate online banking services and expansion of mobile phone-based product offerings and sales and service networks, such as the launch of Shinhan Bank's banking application SOL and upgrades to Shinhan Investment's Shinhan iAlpha application system, in light of the growing base of customers who increasingly access financial services through their mobile phones. We also established in April 2015 a new credit evaluation system with enhanced precision in assessing the creditworthiness of our corporate customers, which has enabled us to manage our credit risk more effectively. On a group-wide level, we are enhancing the efficiency of the information technology operations of our subsidiaries through cloud computing and are planning to build a platform based on blockchain, open application programming interface and big data technology. Furthermore, we have expanded, and will continue to expand, our information technology systems to support the sales and operational capabilities of our overseas subsidiaries and branches through a global customer management system as well as

provide country-specific financial services.

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The information technology system for each of our subsidiaries is currently backed up on a real-time basis. In 2014, we converted the pre-existing data center to a back-up and disaster recovery center for all our subsidiaries' operations in order to provide customer services in a continued seamless manner even in the case of an interruption at Shinhan Data Center. We believe that our centralized back-up systems enable more efficient back-up at a higher level of security.

Competition

Competition in the Korean financial services industry is, and is likely to remain, intense, including as a result of the sustained low interest rate environment (which narrows opportunities to make profit based on the spread between lending rates and funding rates), the continuing sluggishness in the general economy, the growing maturation and saturation of the industry as a whole, the entry of new market participants and deregulation, among others.

In the banking sector, Shinhan Bank competes principally with other national commercial banks in Korea, but also faces competition from a number of additional banking institutions, including branches and subsidiaries of foreign banks operating in Korea, regional banks, Internet-only banks, government-owned development banks and Korea's specialized banks, such as Korea Development Bank, Industrial Bank of Korea and the National Federation of Fisheries Cooperatives, as well as various other types of financial service providers, including savings institutions (such as mutual savings and finance companies, credit unions and credit cooperatives), investment companies (such as securities brokerage firms, merchant banking corporations and asset management companies) and life insurance companies. As of December 31, 2018, Korea had six major nationwide domestic commercial banks (including Citibank Korea Inc. and Standard Chartered Bank Korea Limited, both of which are domestic commercial banks acquired by global financial institutions), six regional commercial banks, two Internet-only banks and branches and subsidiaries of 38 foreign banks. Foreign financial institutions, many of which have greater experiences and resources than we do, may continue to enter the Korean market and compete with us in providing financial products and services either by themselves or in partnership with existing Korean financial institutions.

In the small- and medium-sized enterprise and retail banking segments, which have been Shinhan Bank's traditional core businesses, competition is expected to increase further. In recent years, Korean banks, including Shinhan Bank, have increasingly focused on stable asset growth based on quality credit, such as corporate borrowers with high credit ratings, loans to SOHO with high levels of collateralization, and mortgage and home equity loans within the limits of the prescribed loan-to-value ratios and debt-to-income ratios. This common shift in focus toward stable growth based on less risky assets has intensified competition as banks compete for the same limited pool of quality credit by engaging in price competition or by other means although Shinhan Bank has traditionally focused, and will continue to focus, on enhancing profitability rather than increasing asset size or market share, and has avoided, to the extent practicable, engaging in price competition by way of lowering lending rates. In addition, such competition may result in lower net interest margin and reduced overall profitability, especially if the low interest rate environment were to continue for a significant period of time. Although Shinhan Bank's net interest margin has improved slightly in 2018 compared to 2017 due to, at least partly, increases in base interest rate by the Bank of Korea from 1.25% to 1.50% in November 2017 and from 1.50% to 1.75% in November 2018 and may improve further if the base interest rate is increased again during 2019, the effect on its results of operations may be less beneficial due to increased volatility of market interest rates and tighter regulations regarding SOHO loans, including the implementation of additional credit review guidelines for individual businesses. Therefore, if competing financial institutions seek to expand market share by lowering their lending rates, Shinhan Bank may suffer customer loss, especially among customers who select their lenders principally on the basis of lending rates. In response thereto or for other strategic reasons, Shinhan Bank may subsequently lower its lending rates to stay competitive, which could lead to a decrease in its net interest margins and outweigh any potential positive impact on the net interest margin from a general rise in market interest rates. Any future decline in Shinhan Bank's customer base or its net interest margins could have an adverse effect on our results

of operations and financial condition.

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In the credit card sector, Shinhan Card competes principally with existing monoline credit card companies, credit card divisions of commercial banks, consumer finance companies, other financial institutions and, recently, credit card service providers allied with mobile telecommunications service providers in Korea. Competition has been historically intense in this sector and the market has shown signs of saturation as existing and new credit card service providers make significant investments and engage in aggressive marketing campaigns and promotions to acquire new customers and target customers with high credit quality. While competition has subsided somewhat recently due to stricter government regulations, such as curbs on excessive marketing expenses, competition remains intense and credit card issuers may continue to compete with Shinhan Card for customers by offering lower interest rates and fees, higher credit limits, more attractive promotions and incentives and alternative products such as credit card reward points, gift cards and low-interest consumer loan products. As a result, Shinhan Card may lose customers or service opportunities to competing credit card issuers and/or incur higher marketing expenses. Also, over the years, the Government has implemented regulations lowering certain merchant fees chargeable by credit card companies. In 2012, the Government adopted regulations mandating lower merchant fees chargeable to small- and medium-sized enterprises, and beginning January 31, 2016, a further reduction in the merchant fees chargeable to small- and medium-sized enterprises went into effect. The Enforcement Decree of the Specialized Credit Finance Business Act was amended in July 2017 and January 2019 to further expand the range of small- and medium-sized enterprises subject to lower merchant fees, and additional amendments to regulations requiring further downward adjustments to merchant fees may come into force in the future. For further details on the Government's regulations on merchant fees chargeable by credit card companies, See Item 3.D. Risk Factors Risks Relating to Our Credit Card Business Future changes in market conditions as well as other factors, such as stricter regulation, may lead to reduced revenues and deterioration in the asset quality of credit card receivables. In addition, since the implementation of the Improper Solicitation and Graft Act in September 2016, revenue growth for corporate cards and service related industries such as dining, floral and entertainment have shown signs of decline, and additional regulations on loans reducing maximum interest rates chargeable from 27.9% to 24% came into effect in February 2018. These developments have put further downward pressure on the results of operations for credit card companies, including Shinhan Card. Furthermore, the Government's recent guidelines to bolster consumer protection and protect customers' personal data in the aftermath of data leaks at certain credit companies (not including Shinhan Card) may result in additional compliance costs for Shinhan Card. Customer attrition, together with any further lowering of fees or reduction in base and market interest rates and/or additional expenses from more extensive marketing and promotional campaigns that Shinhan Card might implement to acquire and retain customers, could reduce its revenues and earnings. Furthermore, the average credit quality of Shinhan Card's customers may deteriorate if customers with higher credit quality borrow from our competitors rather than Shinhan Card and it may become more difficult for Shinhan Card to attract and maintain quality customers. In general, the growth, market share and profitability of Shinhan Card's operations may decline or become negative as a result of market saturation in this sector, interest rate competition, pressure to lower fee rates and incur higher marketing expenses, as well as Government regulation and social and economic developments in Korea that are beyond our control, such as changes in consumer confidence levels, spending patterns or public perception of credit card usage and consumer debt. If Shinhan Card fails to maintain or attract new cardholders or increase the card usage by existing customers or experiences deterioration in its asset quality and a rise in delinquency, our business, financial condition and results of operations may be adversely affected.

In other financial services sectors, our other subsidiaries also compete in a highly fragmented market. Some of our competitors, particularly major global financial institutions, have greater experience and resources than we do.

Consolidation among our rival institutions and the Government's privatization efforts may also add competition in the markets in which we and our subsidiaries conduct business. A number of significant mergers and acquisitions in the industry have taken place in Korea recently, including Hana Financial Group's acquisition of Korea Exchange Bank in 2012 and the resulting merger of Hana Bank and Korea Exchange Bank in September 2015. Moreover, in 2014, pursuant to the implementation of the Government's privatization plan with respect to Woori Finance Holdings (now

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Woori Asset Management and Woori F&I were acquired by KB Financial Group, Kiwoom Securities and Daishin Securities, respectively, and Woori Investment & Securities, Woori Aviva Life Insurance and Woori FG Savings Bank were acquired by NongHyup Financial Group. In addition, in October 2014, the Government's ownership interest in the holding companies of Kwangju Bank and Kyongnam Bank were acquired by JB Financial Group and BS Financial Group (now BNK Financial Group), respectively. In 2015, the Government decided to sell a 30% to 40% interest in Woori Bank to multiple investors in separate blocks ranging from 4% to 10% each. Since December 2016, Korea Deposit Insurance Corporation has consummated sales transactions with seven institutional investors including Kiwoom Securities, Korea Investment and Securities, Hanwha Life Insurance, Tongyang Life Insurance, Eugene Asset Management, Mirae Asset Global Investments and IMM Private Equity for the sale of an aggregate 29.7% interest in Woori Bank in separate blocks. In the securities brokerage sector, Mirae Asset acquired KDB Daewoo Securities in 2016, creating the largest brokerage company in Korea by assets, and on June 1, 2016, KB Financial Group completed its acquisition of Hyundai Securities and merged it with its existing brokerage unit, KB Investment & Securities Co, creating the fifth largest brokerage company in Korea by assets. Any of these developments may place us at a competitive disadvantage and outweigh any potential benefit to us in the form of opportunities to acquire new customers who are displeased with the level of services at the newly reorganized entities or to provide credit facilities to corporate customers who wish to maintain relationships with a wide range of banks in order to diversify their sources of funding. In September 2018, we announced the acquisition of a 59.15% interest in Orange Life Insurance, Ltd., the former Korean unit of ING Life Insurance, as part of our efforts to diversify and enhance our non-banking businesses. The acquisition was approved by the Financial Services Commission on January 16, 2019 and closed on February 1, 2019. We expect that such consolidation and other structural changes in the financial industry will continue. Other financial institutions may seek to acquire or merge with other entities, and the financial institutions resulting from such consolidation may, by virtue of their increased size and business scope, provide greater competition for us. Increased competition and continuing consolidation may lead to decreased margins, resulting in a material adverse impact on our future profitability.

Regulatory reforms and the general modernization of business practices in Korea have also led to increased competition among financial institutions in Korea. Since July 2015, the Financial Services Commission has provided, through the Korea Financial Telecommunications and Clearings Institute, the integrated automatic payment transfer management service, which allows account holders to search for, terminate or modify automatic payments they have set up with financial institutions participating in such service (currently including banks, securities companies and other financial institutions such as The Post Office, Korean Federation of Community Credit Cooperatives, National Credit Union Federation of Korea, Mutual Savings Bank and National Forestry Cooperative Federation). In addition, the Financial Services Commission began providing the integrated account management service from December 2016, which allows account holders to search for detailed information of their bank accounts opened in banks participating in such service, close small-sum inactive accounts (i.e., accounts with no transaction activity during the previous one year period and with a balance of less than ₩500,000) and transfer the balance in such accounts to other accounts. Moreover, in December 2017, the Financial Services Commission introduced the my account at a glance system, which enables consumers to view their key financial account information online, including information on banks, insurances, mutual finance, loan and card issuances on one page. The my account at a glance system became available on mobile channels in February 2016 and expanded its scope of services to include savings banks and securities companies. Since their introduction, the integrated automatic payment transfer management service, integrated account management service and my account at a glance system have gained widespread acceptance. As the reform of the financial sector continues, competition may become more intense among existing banks, insurance companies, securities companies and other financial organizations, and may lead to significant changes in the current Korean financial market. Moreover, the Regulation on the Supervision of the Banking Business was amended on July 12, 2018 to provide that, beginning on January 1, 2020, in calculating loan to deposit ratio, retail loans and corporate loans will be weighed differently, with retail loans subject to a multiple of 115% and corporate loans (excluding loans to SOHOs) subject to a multiple of 85%, thereby increasing the impact of retail loans and reducing the impact of

corporate loans in calculating such ratio. This may further intensify competition for corporate loans and deposits among commercial banks and, as a result, Shinhan Bank may face difficulties in

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increasing or retaining its corporate loans and deposits, which in turn may result in an increase in its cost of funding.

Furthermore, as the Korean economy further develops and new business opportunities arise, more competitors may enter the financial services industry. For example, as online service providers and technology companies with large-scale user networks, such as Kakao Corp., NAVER and Samsung Electronics, recently make significant inroads in providing virtual payment services through a system based on a growing convergence of financial services and technology commonly referred to as fintech, competition for online customers is growing not just among commercial banks, but also from online and mobile payment service providers. Also, widespread consumer acceptance of mobile phone payment services in lieu of credit card services could add to the competitive threat faced by existing credit card service providers, including our credit card subsidiary. In 2015, the Government announced its plans to allow Internet-only banks to operate in Korea. KT consortium's K-Bank and Kakao consortium's Kakao Bank commenced operations in April 2017 and July 2017, respectively. Internet-only banks may have advantages over traditional banks as the former can pass savings in labor and overhead costs to their customers by offering higher interest rates on deposit accounts, lower loan costs and reduced service fees. Accordingly, commercial banks will likely face increasing pressure to upgrade their service platforms to attract and maintain online users, which represents a growing customer base compared to traditional customers who have primarily conducted banking in-person at physical banking branches.

Recently, following the global financial crisis, the Government has subjected Korean financial institutions to stricter regulatory requirements and guidelines in areas of asset quality, capital adequacy, liquidity and residential and other lending practices (including a requirement to maintain a certain ratio of core capital to total risk exposure, which was introduced in January 2018 in order to control excessive leverage), which has had a dampening effect on competition. The Financial Services Commission implemented the capital requirements of Basel III, whose minimum requirements were phased in sequentially from December 1, 2013 through full implementation by January 1, 2015, based on the guidelines set forth in the amended Regulation on the Supervision of the Banking Business and the Detailed Regulation on the Supervision of the Banking Business. In addition, the Financial Services Commission has implemented the Basel III requirements relating to liquidity coverage ratio and capital conservation buffer, each of which have been fully phased in as of January 1, 2019. As of January 1, 2016, the Financial Services Commission implemented Basel III requirements relating to accumulation of additional capital for systemically important banks and bank holding companies and countercyclical capital buffer requirements. Each year, the Financial Services Commission may designate banks with significant influence (based on size and connectivity with other financial institutions) on the domestic financial system as a domestic systemically important bank and require the accumulation of additional capital in accordance with the highest of: (i) ratio of common equity capital to risk-weighted assets, ranging from 0.0% to 2.0%, depending on the systematic importance evaluation score, (ii) if the bank's holding company is a domestic systemically important bank holding company, the capital ratio corresponding to the additional capital required for the bank holding company under the Financial Holding Company Supervision Regulations, or (iii) if the bank is also a global systemically important bank, as defined by the Basel Committee, the capital ratio as required by the Basel Committee. According to the instructions of the Financial Services Commission, domestic systemically important banks including Shinhan Bank have been required to maintain an additional capital buffer of 0.25% since January 1, 2016, with such buffer increased by 0.25% annually to reach 1.00% as of January 1, 2019. The Financial Services Commission may also, upon quarterly review, determine and require banks to accumulate a required level of countercyclical capital buffer within the range of 0% to 2.5% of risk-weighted assets, taking into account factors such as the degree of increase in credit relative to the gross domestic product. However, there is no assurance that these measures will have the effect of curbing competition or that the Government will not reverse or reduce such measures or introduce other deregulatory measures, which may further intensify competition in the Korean financial services industry. For further details on the capital requirements applicable to us, see [Supervision and Regulation - Principal Regulations Applicable to Financial Holding Companies - Capital Adequacy](#).

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If, despite our efforts to adapt to the changing macroeconomic environment and comply with new regulations, we are unable to compete effectively in the changing business and regulatory environment, our profit margin and market share may erode and our future growth opportunities may become limited, which could adversely affect our business, financial condition and results of operations. See Item 3.D. Risk Factors Risks Relating to Our Overall Business Competition in the Korean financial services industry is intense, and may further intensify and Supervision and Regulation.

Table of Contents**Description of Assets and Liabilities****Loans**

As of December 31, 2018, our total gross loan portfolio was ₩303,070 billion, which represented an increase of 9.2% from ₩277,489 billion at December 31, 2017. The increase in our portfolio primarily reflects a 10.0% increase in corporate loans and an 8.3% increase in retail loans.

Loan Types

The following table presents our loans by type as of the dates indicated. Except where specified otherwise, all loan amounts stated below are before deduction for loan loss allowances. Total loans reflect our loan portfolio, including past due amounts.

	2014	2015	As of December 31, 2016	2017	2018 ⁽⁶⁾
	(In billions of Won)				
Corporate					
Corporate loans ⁽¹⁾	₩ 112,145	₩ 125,155	₩ 128,672	₩ 138,277	₩ 151,647
Public and other ⁽²⁾	2,135	2,191	2,154	2,298	2,831
Loans to banks ⁽³⁾	4,684	4,653	4,730	2,970	3,586
Lease financing	1,844	1,875	1,814	1,713	1,726
Total Corporate	120,808	133,874	137,370	145,258	159,790
Retail					
Mortgages and home equity	50,652	54,983	56,235	59,078	62,394
Other retail ⁽⁴⁾	34,278	41,035	47,949	52,512	58,438
Total Retail	84,930	96,018	104,184	111,590	120,832
Credit cards	18,141	18,537	19,450	20,641	22,448
Total loans⁽⁵⁾	₩ 223,879	₩ 248,429	₩ 261,004	₩ 277,489	₩ 303,070

Notes:

- (1) Consists primarily of working capital loans, general purpose loans, bills purchased and trade-related notes and excludes loans to public institutions and commercial banks.
- (2) Consists of working capital loans and loan facilities to public institutions and non-profit organizations.
- (3) Consists of interbank loans and call loans.
- (4) Consists of general unsecured loans and loans secured by collateral other than housing to retail customers.

- (5) As of December 31, 2014, 2015, 2016, 2017 and 2018, 89.1%, 89.4%, 88.9%, 88.2% and 88.9% of our total gross loans, respectively, were Won-denominated.
- (6) Loan amounts as of December 31, 2018 include loans at amortized cost and loans at fair value classified in accordance with IFRS 9. Corporate loans include loans at fair value in the amount of ₩1,209 billion.

Loan Portfolio

The total exposure of us or our banking subsidiaries to any single borrower and exposure to any single group of companies belonging to the same conglomerate is limited by law to 20% and 25%, respectively, of the Net Total Equity Capital (as defined in Supervision and Regulation).

Table of Contents*Twenty Largest Exposures by Individual Borrower*

As of December 31, 2018, our 20 largest exposures, consisting of loans, securities and guarantees and acceptances, totaled ₩56,906.2 billion. The following table sets forth our total exposures to these top 20 borrowers as of December 31, 2018.

	As of December 31, 2018							Impaired Loans and Guarantees and Acceptances		
	Loans in Won Currency	Loans in Foreign Currency	Securities	Guarantees and Acceptances	Others	Total Exposure				
	(In billions of Won)									
Ministry of Economy and Finance	₩	0.0	₩	₩	17,848.0	₩	₩	₩	17,848.0	₩
Korea Housing Finance Corporation		0.0			6,870.3				6,870.3	
The Bank of Korea.		40.0			5,608.9	0.1			5,649.0	
Korea Development Bank		10.9	11.2		5,176.5				5,198.7	
Industrial Bank of Korea.		651.8			3,127.4				3,779.1	
Export-Import Bank of Korea			11.2		2,431.3				2,442.5	
Samsung Electronics Co., Ltd.		0.0	1,432.5				0.0		1,432.5	
Korea Deposit Insurance Corporation.					1,355.9				1,355.9	
KB Investment & Securities Co., Ltd.		1,100.0			229.1				1,329.1	
Woori Bank.		381.1	84.1		839.8				1,305.0	
Kookmin Bank		723.4			532.6	31.2			1,287.3	
Korea Securities Finance Corporation.		716.3			503.8				1,220.1	
Nonghyup Bank.		627.1	10.6		536.8	15.5			1,190.0	
Korea Land & Housing Corporation		0.0			1,106.9				1,107.0	
Mirae Asset Daewoo Co., Ltd.		870.7			191.7				1,062.5	
KEB Hana Bank		139.6	225.2		501.1	2.1			868.1	
Korea Electric Power Corporation.		2.4			760.2	88.3			851.0	
Small & Medium Business Corporations.		0.0			722.9				722.9	
Korea Investment & Securities Co., Ltd.		631.3			67.9				699.2	
		27.4			662.8				688.2	

KB Kookmin Card Co.,
Ltd.

Total	₩ 5,922.1	₩ 1,774.9	₩ 49,071.9	₩ 137.3	₩ 0.0	₩ 56,906.2	₩
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Table of Contents*Exposure to Main Debtor Groups*

As of December 31, 2018, our total exposure to the main debtor groups as identified by the Governor of the Financial Supervisory Service amounted to ₩27,330.9 billion. The main debtor groups are largely comprised of *chaebols*. The following table shows, as of December 31, 2018, our total exposures to the ten main debtor groups to which we have the largest exposure.

As of December 31, 2018

Main Debtor Groups	Loans in Won Currency	Loans in Foreign Currency	Securities	Guarantees and Acceptances Others			Total Exposure	Amounts of Impaired Loans and Guarantees and Acceptances
				(In billions of Won)				
Samsung	₩ 545.2	₩ 2,001.3	₩ 1,023.7	₩ 967.9	₩ 0.1	₩ 4,538.1	₩	
Hyundai Motors	845.8	1,808.6	1,029.3	331.9	0.7	4,016.3		
SK	836.6	378.2	786.5	803.9	0.0	2,805.1		
Lotte	327.8	718.0	925.6	339.4	1.6	2,312.4		
LG	460.5	255.7	603.5	536.9	0.0	1,856.6		
Hanwha	341.1	264.6	571.8	328.3	0.2	1,505.9		
Hyundai Heavy Industries	158.2	170.7	75.6	1,073.9		1,478.4		
LS	78.2	388.0	250.0	627.2		1,343.4		
Hyosung	186.4	452.9	59.7	139.2	0.0	838.1		
GS	55.7	198.0	216.8	193.3	0.0	663.8		
Total	₩ 3,835.4	₩ 6,635.9	₩ 5,542.4	₩ 5,341.9	₩ 2.6	₩ 21,358.2	₩	

Loan Concentration by Industry

The following table shows the aggregate balance of our corporate loans by industry concentration as of December 31, 2018.

Industry	As of December 31, 2018	
	Aggregate Loan Balance (In billions of Won)	Percentage of Total Corporate Loan Balance (Percentages)
Manufacturing	₩ 46,392	29.0%
Real estate, leasing and service	29,077	18.2

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Retail and wholesale	20,704	13.0
Finance and insurance	18,338	11.5
Transportation, storage and communication	4,951	3.1
Hotel and leisure	7,184	4.5
Construction	3,618	2.3
Other service ⁽¹⁾	16,411	10.3
Other ⁽²⁾	13,115	8.1
Total	₩ 159,790	100.0 %

Notes:

- (1) Includes other service industries such as publication, media and education.
- (2) Includes other industries such as agriculture, forestry, mining, electricity and gas.

Table of Contents**Maturity Analysis**

The following table sets out the scheduled maturities (presented in terms of time remaining until maturity) of our loan portfolio as of December 31, 2018. The amounts below are before allowance for loan losses and deferred loan origination costs and fees. In the case of installment payment loans, maturities have been adjusted to take into account the timing of installment payments.

	As of December 31, 2018			
	1 Year or Less	Over 1 Year but Not More Than 5 Years	Over 5 Years⁽¹⁾	Total
	(In billions of Won)			
Corporate:				
Corporate loans	₩ 103,337	₩ 42,194	₩ 6,116	₩ 151,647
Public and other	1,478	978	375	2,831
Loans to banks	2,920	551	115	3,586
Lease financing	603	1,116	7	1,726
Total corporate	₩ 108,338	₩ 44,839	₩ 6,613	₩ 159,790
Retail:				
Mortgage and home equity	₩ 10,419	₩ 16,644	₩ 35,331	₩ 62,394
Other retail	35,989	13,196	9,253	58,438
Total retail	₩ 46,408	₩ 29,840	₩ 44,584	₩ 120,832
Credit cards	₩ 19,756	₩ 2,479	₩ 213	₩ 22,448
Total loans	₩ 174,502	₩ 77,158	₩ 51,410	₩ 303,070

Note:

(1) Includes overdue loans.

We may roll over our corporate loans (primarily consisting of working capital loans and facility loans) and retail loans (to the extent not payable in installments) after we conduct our standard loan reviews in accordance with our loan review procedures. Working capital loans may generally be extended on an annual basis for an aggregate term of up to five years. Facilities loans, which are generally secured, may generally be extended on an annual basis for a maximum of 15 years from the initial loan date. Retail loans may be extended for additional terms of up to 12 months for an aggregate term of ten years from the initial loan date for both unsecured loans and secured loans.

Interest Rate Sensitivity

The following table presents a breakdown of our loans in terms of interest rate sensitivity as of December 31, 2018.

	As of December 31, 2018		
	Due Within 1 Year⁽¹⁾	Due After 1 Year	Total
	(In billions of Won)		
Fixed rate loans ⁽¹⁾	₩ 74,001	₩ 27,735	₩ 101,736
Variable rate loans ⁽²⁾	100,501	100,833	201,334
Total loans	₩ 174,502	₩ 128,568	₩ 303,070

Notes:

- (1) Fixed rate loans are loans for which the interest rate is fixed for the entire term of the loan.
(2) Variable or adjustable rate loans are for which the interest rate is not fixed for the entire term of the loan.

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For additional information regarding our management of interest rate risk, see Risk Management.

Nonaccrual Loans and Past Due Accruing Loans

Except in the case of repurchased loans, we generally recognize interest income on nonaccrual loans using the rate of interest used to discount the future cash flows of such loans for the purpose of measuring impairment loss. Generally, we discontinue accruing of interest on loans (other than repurchased loans) when payment of interest and/or principal becomes past due by 90 days. Loans (other than repurchased loans) are not reclassified as accruing until interest and principal payments are brought current.

We generally do not request borrowers to make immediate repayment of the whole outstanding principal balances and related accrued interest on loans whose interest payments are past due for one to 14 days in the case of commercial loans and one to 30 days in the case of retail loans.

Interest foregone is interest due on nonaccrual loans that has not been accrued in our books of account. In 2014, 2015, 2016, 2017 and 2018, we would have recorded gross interest income of ₩113 billion, ₩79 billion, ₩91 billion, ₩96 billion and ₩66 billion, respectively, on loans accounted for on a nonaccrual basis throughout the respective years, or since origination for loans held for part of the year, had the loans been current with respect to their original contractual terms. The amount of interest income on those loans that was included in our net income in 2014, 2015, 2016, 2017 and 2018 were ₩53 billion, ₩39 billion, ₩38 billion, ₩42 billion and ₩36 billion, respectively.

The following table shows, at the dates indicated, the amount of loans that are placed on a nonaccrual basis and accruing loans which are past due one day or more. The term accruing but past due one day includes loans which are still accruing interest but on which principal or interest payments are contractually past due one day or more. We continue to accrue interest on loans where the total amount of loan outstanding, including accrued interest, is fully secured by cash on deposits.

	As of December 31,				
	2014	2015	2016	2017	2018
	(In billions of Won)				
Loans accounted for on a nonaccrual basis⁽¹⁾					
Corporate	₩ 1,358	₩ 1,235	₩ 1,102	₩ 1,035	₩ 897
Retail	233	228	243	311	358
Credit cards	152	93	86	67	92
Sub-total	1,743	1,556	1,431	1,413	1,347
Accruing loans which are contractually past due one day or more as to principal or interest					
Corporate	183	176	234	199	199
Retail	374	316	313	440	706
Credit cards	466	399	369	509	558
Sub-total	1,023	891	916	1,148	1,463
Total	₩ 2,766	₩ 2,447	₩ 2,347	₩ 2,561	₩ 2,810

Note:

- (1) Represents either loans that are troubled debt restructuring or loans for which payment of interest and/or principal became past due by 90 days or more (adjusting for any overlap due to loans that satisfy both prongs so as to avoid double counting).

Table of Contents***Troubled Debt Restructurings***

The following table presents, at the dates indicated, our loans which are troubled debt restructurings. These loans mainly consist of corporate loans that have been restructured through the process of workout and recovery proceedings. See Credit Exposures to Companies in Workout and Recovery Proceedings. These loans accrue interest at rates lower than the original contractual terms, or involve the extension of the original contractual maturity as a result of a variation of terms upon restructuring.

	As of December 31,				
	2014	2015	2016	2017	2018
	(In billions of Won)				
Loans classified as troubled debt restructurings (excluding nonaccrual and past due loans)	₩ 173	₩ 244	₩ 133	₩ 10	₩ 12
Loans classified as troubled debt restructurings (including nonaccrual and past due loans)	₩ 635	₩ 714	₩ 526	₩ 502	₩ 440

The following table presents, for the periods indicated and with respect to the restructured loans, the amounts that would have been recorded as our interest income under the original contract terms of the restructured loans, and the amounts that were actually recorded as our interest income for such loans under the restructured contractual terms of such loans.

	For the year ended December 31,				
	2014	2015	2016	2017	2018
	(In billions of Won)				
Interest income under the original contractual terms of the restructured loans ⁽¹⁾	₩ 21	₩ 22	₩ 17	₩ 15	₩ 19
Interest income under the restructured contractual terms of the restructured loans ⁽¹⁾	₩ 12	₩ 6	₩ 8	₩ 11	₩ 7

Note:

(1) Includes nonaccrual and past due loans.

The following table presents a breakdown of the outstanding balance and specific allowance for loan losses as of December 31, 2014, 2015, 2016, 2017 and 2018 of corporate loans classified as troubled debt restructurings (including nonaccrual and past due loans) by the type of restructuring to which such loans are subject.

		As of December 31,				
2014	2015	2016	2017	2018		
Outstanding	Outstanding	Outstanding	Outstanding	Outstanding	Balance	Allowance
Balance	Allowance	Balance	Allowance	Balance	Allowance	Balance
Balance	Allowance	Balance	Allowance	Balance	Allowance	Balance

(In billions of Won)

Workout	₩ 476	₩ 471	₩ 506	₩ 215	₩ 410	₩ 214	₩ 387	₩ 275	₩ 331	₩ 237
Recovery										
Proceedings	159	144	208	63	113	32	109	36	98	34
Others ⁽¹⁾					3	2	6	5	11	5
Total	₩ 635	₩ 615	₩ 714	₩ 278	₩ 526	₩ 248	₩ 502	₩ 316	₩ 440	₩ 276

Note:

- (1) Principally consists of loans subject to corporate turnaround or corporate reorganization pursuant to the Debtor Rehabilitation and Bankruptcy Act (also known as the Consolidated Insolvency Act).

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The following table presents the outstanding balance and specific allowance for loan losses as of December 31, 2014, 2015, 2016, 2017 and 2018 of retail loans (including nonaccrual and past due loans) subject to credit rehabilitation programs for retail borrowers. All such loans became modified under credit rehabilitation programs and became beneficiaries of maturity extension and interest rate reductions, while a substantially limited portion of such loans also became beneficiaries of debt forgiveness and deferral. For more information on the credit rehabilitation program, see Credit Exposures to Companies in Workout and Recovery Proceedings – Credit Rehabilitation Programs for Delinquent Consumer and Small- and Medium-sized Enterprise Borrowers.

	As of December 31,									
	2014		2015		2016		2017		2018	
	Outstanding	Allowance	Outstanding	Allowance	Outstanding	Allowance	Outstanding	Allowance	Outstanding	Allowance
	(In billions of Won)									
Retail loans subject to credit rehabilitation programs ⁽¹⁾ :	₩45	₩ 27	₩61	₩ 40	₩84	₩ 49	₩118	₩ 70	₩84	₩ 46

Note:

(1) Includes nonaccrual and past due loans.

The following table presents, as of the dates indicated and with respect to corporate loans, the amounts of restructured loans that were considered impaired and classified as nonaccrual pursuant to our general interest accrual policy as described in Accrual Policy for Restructured Loans. The table also presents, for the periods indicated and with respect to corporate loans, the amounts of total charge-off on restructured loans and the amounts of charge-off as part of debt-to-equity conversions.

	As of and for the year ended December 31,				
	2014	2015	2016	2017	2018
	(In billions of Won)				
Impaired and nonaccrual restructured loans	₩462	₩470	₩393	₩492	₩428
Total charge-off of restructured loans	₩ 55	₩259	₩118	₩ 89	₩ 59
Charge-off as part of debt-to-equity conversion	₩ 32	₩ 51	₩ 22	₩ 68	₩ 67

Credit Exposures to Companies in Workout and Recovery Proceedings

Our credit exposures to restructuring are monitored and managed by our Corporate Credit Support Department. As of December 31, 2018, 0.15% of our total loans, or ₩440 billion (of which ₩428 billion was classified as nonaccrual and ₩12 billion was classified as accruing), was under restructuring. Restructuring of our credit exposures generally takes the form of workout and recovery proceedings.

Workout

The original Corporate Restructuring Promotion Act (Act No. 6504) was enacted on August 14, 2001 in order to facilitate the out-of-court restructuring of insolvent companies. This law expired on December 31, 2005, and new Corporate Restructuring Promotion Acts were enacted on August 3, 2007 (expired on December 31, 2010), May 19, 2011 (expired on December 31, 2013), January 1, 2014 (expired on December 31, 2015), March 18, 2016 (expired on June 30, 2018) and October 16, 2018 (to be expired on October 15, 2023, the new CRPA enacted and implemented on October 16, 2018 is hereinafter referred to as the CRPA).

If the main Creditor Financial Institution of a Failing Company provided notice of convening a Creditor Committee (defined below) on or before October 15, 2023, any proceedings commenced by such Creditor Committee will remain subject to the CRPA even after October 15, 2023 unless and until such proceedings are completed or discontinued.

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The following is a summary of the key provisions of the CRPA. The CRPA applies to a financial creditor (the Financial Creditor) who has financial claims against a debtor company by providing credit to such debtor company or other third parties. Provision of Credit is defined in the CRPA as any transaction determined by the Financial Supervisory Commission to fall under any of the following:

loans;

purchase of promissory notes and debentures or bonds;

equipment leasing;

payment guarantees;

providing advance payments on acceptances and guarantees under a payment guarantee;

any direct or indirect financial transaction which may cause a loss to a counterparty as a consequence of a payment failure by a debtor company; or

any transaction other than the transactions set out above which may have in substance the same effect as the transactions set out above.

The debtor company is defined under the CRPA as a company established under the Korean Commercial Code or other person performing profit-making activities. The Failing Company means a debtor company deemed, through a credit evaluation carried out in the manner set out in the CRPA, by its main Creditor Financial Institution as having difficulty to repay debts to its financial creditor without external financial support or an additional loan (excluding loans obtained in the course of conducting normal financial transactions).

Once the debtor company is notified by the main Creditor Financial Institution to fall under the definition of Failing Company, such company may submit its business restructuring plan and the list of its Financial Creditors, and apply to such main Creditor Financial Institution for commencement of the management procedure to be assumed by a committee of Financial Creditors (the Creditor Committee) or such main Creditor Financial Institution.

Under the CRPA, the main Creditor Financial Institution of a Failing Company is required to take or arrange one of the following actions if it determines that there is a possibility that the financial condition of the Failing Company may be rehabilitated or brought back to normal in accordance with its business restructuring plan:

convocation of the first meeting of the Creditor Committee to decide whether to commence the management of the Failing Company by the Creditor Committee; or

assumption of management of the Failing Company by the main Creditor Financial Institution. Under the CRPA, in order to call for the first meeting of the Creditor Committee, the main Creditor Financial Institution is required to notify the Financial Creditors, the Failing Company and the Financial Supervisory Service. However, the main Creditor Financial Institution may omit the notification to some extent of the Financial Creditors who are set out in the CRPA such as a Financial Creditor who does not perform the financial business or a Financial Creditor who has only small claims against the Failing Company. The Financial Creditors who do not receive the notification from the main Creditor Financial Institution will be excluded from the Creditor Committee; provided that if they nevertheless want to attend the meeting, the main Creditor Financial Institution may not exclude such Financial Creditors. When the main Creditor Financial Institution calls for the first meeting of the Creditor Committee, it may require the Financial Creditors to grant a moratorium on the enforcement of claims (including the enforcement of security interests) until the end of the first meeting of the Creditor Committee. In addition, at the first meeting of the Creditor Committee, the Financial Creditors may resolve to declare a moratorium for up to one month (or three months if an investigation of the Failing Company's financial status is necessary) from the commencement date of the management procedure (which may be extended by one additional month by resolutions of the Creditor Committee).

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The Financial Creditors who attend the first meeting of the Creditor Committee may resolve, among other things: (i) commencement of the management procedure, (ii) composition of the Financial Creditors who will participate in such management procedure and (iii) declaration of moratorium mentioned above.

Once the management procedure commences, the main Creditor Financial Institution is required to prepare the corporate restructuring plan of the Failing Company considering the investigation results of the Failing Company's financial status and submit such plan to the Creditor Committee for approval thereof. The corporate restructuring plan may include, among other things, the matters regarding rescheduling of debt owed by the Failing Company, provision of new credit and the business restructuring plan of the Failing Company. If the corporate restructuring plan is not approved by the date the moratorium period ends, the Creditor Committee's management of the Failing Company shall be deemed to have terminated.

The resolution at the Creditor Committee is generally passed by an approval of the Financial Creditors representing at least 75 per cent. of the outstanding credit to the Failing Company of the Financial Creditors who constitute the Creditor Committee; provided that if a single Financial Creditor holds at least 75 per cent. of the outstanding credit, the resolution shall be passed by an approval of not less than 40 per cent. of the total number of the Financial Creditors who constitute the Creditor Committee, including such single Financial Creditor. An additional approval of the Financial Creditors holding interests in 75 per cent. or more of the total amount of the secured claims owned by the Financial Creditors constituting the Creditor Committee against the Failing Company is required with respect to the debt rescheduling of the Failing Company.

A Financial Creditor which has opposed the resolutions of the Creditor Committee in respect of the commencement of management of the Failing Company by the Creditor Committee, establishment of or amendment to the corporate restructuring plan, extension of management procedure, the rescheduling of claims or provision of new credit (the Opposing Financial Creditor) may, within seven days of such resolutions, request the main Creditor Financial Institutions to purchase its outstanding claims against the Failing Company, stating the type and number of claims. The Financial Creditors that have approved such resolutions (the Approving Financial Creditors) shall jointly purchase such claims within six months of such request.

The purchase price and terms of such purchase shall be determined by mutual agreement of the Approving Financial Creditors and the Opposing Financial Creditor. Pending the agreement of such matters, the payments shall be made at a provisional price, and adjusting payments made once an agreement has been reached. If no such agreement is reached, then such matters shall be determined by the coordination committee established under the CRPA.

Recovery Proceedings

Under the Debtor Rehabilitation and Bankruptcy Act, which took effect on April 1, 2006, court receiverships have been replaced with recovery proceedings. In a recovery proceeding, unlike court receivership proceedings where the management of the debtor company was vested in a court appointed receiver, the existing chief executive officer of the debtor company may continue to manage the debtor company, provided, that (i) neither fraudulent conveyance nor concealment of assets existed, (ii) the financial failure of the debtor company was not due to gross negligence of such chief executive officer, and (iii) no creditors' meeting was convened to request, based on reasonable cause, a court-appointed receiver to replace such chief executive officer. Recovery proceeding may be commenced by any insolvent debtor. Furthermore, in an effort to meet global standards, international bankruptcy procedures have been introduced in Korea under which a receiver of a foreign bankruptcy proceeding may, upon receiving Korean court approval of the ongoing foreign bankruptcy proceeding, apply for or participate in a Korean bankruptcy proceeding. Similarly, a receiver in a domestic recovery proceeding or a bankruptcy trustee is allowed to perform its duties in a foreign country where an asset of the debtor is located to the extent the applicable foreign law permits.

As of December 31, 2018, the total loan amount subject to recovery proceedings was ₩98 billion. No loan amount was subject to court receivership or composition proceedings.

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Loans in the process of workout and recovery proceedings are reported as nonaccrual loans on our statements of financial position as described in *Nonaccrual Loans and Past Due Accruing Loans* above since generally, they are past due by more than 90 days and interest does not accrue on such loans. Restructured loans that meet the definition of a troubled debt restructuring are reported as troubled debt restructurings as described above in *Troubled Debt Restructurings*. Such restructured loans are reported as either loans or securities on our statements of financial position depending on the type of instrument we receive as a result of the restructuring.

Credit Rehabilitation Programs for Delinquent Consumer and Small- and Medium-sized Enterprise Borrowers

In light of the gradual increase in delinquencies in credit card and other consumer credit, the Korean government has implemented a number of measures intended to support the rehabilitation of the credit of delinquent consumer borrowers. These measures may affect the amount and timing of our collections and recoveries on our delinquent consumer credits.

The Credit Counseling and Recovery Service offers two programs for individual debtors, the pre-workout program and the individual workout program, both of which are available to individuals with total debt amounts of ₩1.5 billion or less (secured debt amount of ₩1 billion or less and unsecured debt amount of ₩500 million or less). The pre-workout program is offered to individuals whose delinquency period is between 31 days and 89 days (including those whose delinquency period is between one day and 30 days but with annual income of ₩40 million or less and cumulative delinquency period of 30 days or more within the year immediately preceding the application date), and the individual workout program is offered to individuals whose delinquency period is three months or more. When an individual debtor applies for the pre-workout or individual workout program, the Credit Counseling and Recovery Service will deliberate and resolve on a debt restructuring plan, and once the creditor financial institution that is in a credit recovery support agreement with the Credit Counseling and Recovery Service and holding the majority of each of the unsecured claims and secured claims to the relevant individual debtor agrees to such debt restructuring plan, the plan will be finalized and debt restructuring measures, such as extension of maturity, adjustment of interest rates or reduction of debt, will be taken according to the pre-workout program or individual workout program applied for.

Under the Debtor Rehabilitation and Bankruptcy Act, a qualified individual debtor with outstanding debts in an aggregate amount not exceeding threshold amounts of ₩500 million of unsecured debt and/or ₩1 billion of secured debt may restructure his or her debts through a court-supervised debt restructuring that is binding on creditors.

Once a borrower is deemed to be eligible to participate in the pre-workout program, we promptly sell the collateral underlying such borrower's secured loans to mitigate our losses, and we may restructure such borrower's unsecured loans (regardless of their type) as follows:

Extension of maturity: Based on considerations of the type of loan, the total loan amount, the repayment amount and the probability of repayment, the maturity of unsecured loans may be extended by up to 10 years and maturity of secured loans may be extended by up to 20 years with a grace period not exceeding three years.

Interest rate adjustment: The interest rate of the loan may be adjusted to 70% of the original interest rate or 5% per annum, whichever is higher; provided that if the original interest rate is less than 5% per annum, no adjustment applies. The adjusted interest rate applies to the principal amount following any adjustment

thereto as part of the pre-workout program, and no interest accrues on the interest already accrued or fees payable.

Debt forgiveness: Debt forgiveness under the pre-workout program is limited to (i) the default interest accrued prior to the application for the pre-workout program and (ii) the regular and default interest accrued following such application but before the approval of the program.

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Deferral: If the foregoing three measures are deemed to be insufficient in terms of providing meaningful assistance to a qualifying borrower due to layoff, unemployment, business closure, disaster or earnings loss, loan repayment may be deferred for a maximum of one year, provided that the pre-workout committee may extend such deferral period every six months, for a period not to exceed six months, upon the borrower's application. The deferral period is not counted toward the repayment period, and interest accrues at 3% per annum during the deferral period.

In 2018, the aggregate amount of our retail credit (including credit card receivables) which became subject to the pre-workout program was ₩84 billion. We believe that our participation in such pre-workout program has not had a material impact on the overall asset quality of our retail loans and credit card portfolio or on our results of operations and financial condition to date.

Under the guidelines of the Financial Supervisory Commission, Korean banks, including Shinhan Bank, operated since 2008 a fast track program which was a liquidity support program for small- and medium-sized companies. As the fast track program ended as of December 31, 2016, the Financial Supervisory Service implemented a swift financial assistance program for small- and medium-sized companies for a period of five years beginning on January 1, 2017. Banks and other financial institutions participating in the program will, based on an evaluation of credit risks, provide financial assistance (including extension of maturity on existing obligations and lower interest rates) to small- and medium-sized companies that are experiencing temporary liquidity crises but have a credit rating exceeding a certain threshold. In principle, the application of the swift financial assistance program to companies will be limited to three years, but such application may be extended, in consultation with the creditor financial institutions concerned, one time for an additional period of up to one year.

Loan Modification Programs for Loans under Troubled Debt Restructuring

We generally offer the following types of concessions in relation to restructured loans: reduction of interest rate, forgiveness of overdue interest, extension of the term for repayment of principal, conversion of debt into equity or a combination of the foregoing. The nature and degree of such concessions vary depending on, among other things, the creditworthiness of the borrower, the size of loans being restructured, the existing terms of the loans and other factors deemed relevant by the relevant creditors' committee. We generally do not restructure an existing loan into multiple new loans.

The following table presents a breakdown of the gross amount of loans under restructuring as of December 31, 2014, 2015, 2016, 2017 and 2018 by our loan modification programs, as further categorized according to the loan category and performing versus non-performing status at each fiscal year end.

Modification Programs	As of December 31, 2014		Total
	Non-Performing	Performing	
	(In billions of Won)		
Extension of due date for principal and interest	₩ 4	₩ 3	₩ 7
Reduction of interest rate	52	260	312
Forgiveness of principal	10		10
Equity conversion			
Additional lending ⁽¹⁾	1	198	199
Others ⁽²⁾	61	46	107
Total	₩ 128	₩ 507	₩ 635

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Modification Programs	As of December 31, 2015		
	Non-Performing	Performing	Total
	(In billions of Won)		
Extension of due date for principal and interest	₩	₩ 87	₩ 87
Reduction of interest rate	119	368	487
Forgiveness of principal			
Equity conversion			
Additional lending ⁽¹⁾	4	19	23
Others ⁽²⁾	87	30	117
Total	₩ 210	₩ 504	₩ 714

Modification Programs	As of December 31, 2016		
	Non-Performing	Performing	Total
	(In billions of Won)		
Extension of due date for principal and interest	₩	₩ 92	₩ 92
Reduction of interest rate	3	234	237
Forgiveness of principal			
Equity conversion			
Additional lending ⁽¹⁾		37	37
Others ⁽²⁾	116	44	160
Total	₩ 119	₩ 407	₩ 526

Modification Programs	As of December 31, 2017		
	Non-Performing	Performing	Total
	(In billions of Won)		
Extension of due date for principal and interest	₩ 3	₩ 82	₩ 85
Reduction of interest rate	9	299	308
Forgiveness of principal			
Equity conversion			
Additional lending ⁽¹⁾			
Others ⁽²⁾	70	39	109
Total	₩ 82	₩ 420	₩ 502

Modification Programs	As of December 31, 2018		
	Non-Performing	Performing	Total
	(In billions of Won)		
Extension of due date for principal and interest	₩ 3	₩ 79	₩ 82
Reduction of interest rate	8	250	258
Forgiveness of principal			

Equity conversion			
Additional lending ⁽¹⁾			
Others ⁽²⁾	43	57	100
Total	₩ 54	₩ 386	₩ 440

Notes:

- (1) Represents additional loans provided to the borrower at favorable terms as part of the restructuring package, which may include extension of the due date or reduction of interest rate, among others.
- (2) Principally consists of restructured loans whose restructuring terms were not determined as of the date indicated. A loan is deemed to be subject to restructuring upon the commencement of the recovery proceedings or when the relevant creditors committee or our credit officer determines that the borrower

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will be subject to workout, and in many cases the restructuring terms for such loans are not determined at the time such loans are deemed to be subject to restructuring.

Debt-to-equity Conversion

We distinguish between loans that we consider to be collectible under modified terms and loans that we consider to be uncollectible regardless of any modification of terms. With respect to loans in the latter category, we convert a portion of such loans into equity securities following negotiation with the borrowers and charge off the remainder of such loans as further described below. The equity securities so converted are recorded at fair value, based on the market value of such securities if available or the appraisal value of such securities by an outside appraiser if a market value is unavailable. In 2018, our loans restructured into equity securities amounted to ₩38 billion, which was subsequently charged off.

Debt-to-equity conversion generally has two primary benefits. One, the debt-to-equity conversion reduces the amount of loans and related interest expenses of the borrower, resulting in lesser debt burden and greater liquidity for the borrower, a greater likelihood of its exit from restructuring and the repayment of its obligations to us. Two, in the case of a successful turnaround of the borrower, we are entitled to the upside gains from the increase in the value of the equity securities so converted. Notwithstanding these benefits, however, the resulting impact from the debt-to-equity conversion on our interest income is generally not material as the loans being converted as part of restructuring are generally deemed to be uncollectible regardless any modification of terms. As for the impact on our asset classification, we generally apply the same asset classification standards to both non-restructured and restructured loans. As for restructured loans, we also consider additional factors such as the borrower's adherence to its business plans and execution of the self-help measures, among others, to the extent applicable. In consideration of such criteria, we generally classify loans subject to workout as precautionary. For a general discussion of our loan classifications, see *Supervision and Regulation* *Principal Regulations Applicable to Financial Holding Companies* *Capital Adequacy*.

Evaluation of Loan Modification Programs

We currently do not conduct a systematic or quantitative evaluation of the success of any particular concession by type, whether historically, relative to each other or relative to other financial institutions in Korea, although we do monitor on an individual basis the compliance by the borrower with the modified terms of the restructured loans. This is principally due to the following reasons.

One, in the case of large corporations subject to or about to be subject to restructuring, which represents the most significant restructuring cases in Korea, the restructuring process is generally not driven by us, but by a creditors committee involving several large creditor financial institutions, and in the case of very large corporations or corporations that are members of large business conglomerates, the process frequently involves the guidance of the Government in light of the potential ripple effects of the restructuring on the general economy. Hence, it is difficult for us to collect data that would help us to evaluate the success of a particular concession based on the credit profile of the borrower and the type of concessions offered.

Two, the unavailability of systematic analysis notwithstanding, our general sense is that the restructuring cases in Korea have, to a large part, been successful as measured in terms of the ability of the borrowers to exit restructuring programs relatively quickly and further that the failed cases have not been particularly material. As a result, to date, we have not found it particularly necessary or helpful to expend the time and resources required to conduct a systematic analysis for purposes of evaluating the success of concessions by the type of a particular concession offered.

We do, however, measure the success of concessions in limited ways, that is, principally in terms of how well the borrower complies with the terms and conditions of the restructuring plan as agreed between the borrower and its creditor institutions. A restructuring plan typically includes a business plan and self-help

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measures to be undertaken by the borrower. We monitor the borrower's compliance with the restructuring plan on a periodic basis (namely, annual, semiannual or quarterly in accordance with the terms of the restructuring plan) and evaluate the success thereof principally in terms of three attributes: (i) the progress in the execution of the business plan, (ii) the progress in the execution of the self-help measures and (iii) other qualitative factors such as major developments in the general economy, the regulatory environment, the competitive landscape, the quality of senior management and personnel, and transparency in management. We also closely monitor the cash inflows and outflows of the borrower, and the creditors' committee typically has the right to participate in decision-making related to major spending and borrowings by the borrower.

Accrual Policy for Restructured Loans

For purposes of our accrual policy, we classify restructured loans principally into (i) loans subject to workout pursuant to the Corporate Restructuring Promotion Act and (ii) loans subject to recovery proceedings pursuant to the Debtor Rehabilitation and Bankruptcy Act, which is the comprehensive bankruptcy-related law in Korea. See Credit Exposures to Companies in Workout and Recovery Proceedings. As for loans subject to workout, our general policy is to discontinue accruing interest on a loan when payment of principal and/or interest thereon becomes past due by 90 days or more, as described above in Nonaccrual Loans and Past Due Accruing Loans. Interest is recognized on these loans on a cash basis (i.e., when collected) from the date such loan is reclassified as non-accruing, and such loans are not reclassified as accruing until the overdue principal and/or interest amounts are paid in full. This general policy also applies to loans subject to workout even if such loans are restructured loans. In the case of loans subject to recovery proceedings, we discontinue accruing interest immediately upon the borrowers becoming subject to recovery proceedings (even if such loans are not yet delinquent) in light of the heightened uncertainty regarding the borrower's ability to repay. Interest on such loans are recognized on a cash basis and such loans are not reclassified as accruing until the borrower exits recovery proceedings. Accordingly, under our accrual policy, the number of payments made on a nonaccrual restructured loan is not a relevant factor in determining whether to reinstate such loan to the accrual status.

Determination of Performance of Restructured Loans

In determining whether a borrower has satisfactorily performed its obligations under the existing loan terms, we principally review the payment history of the borrower, namely whether the borrower has been delinquent by one day or more pursuant to our general interest accrual policy. In determining whether a borrower has shown the capacity to continue to perform under the restructured terms, we primarily rely upon the assessment of our credit officers (or the creditors' committee in the case of large corporate borrowers with significant outstanding loans) of the likelihood of the borrower's ability to repay under the restructured terms, which assessment takes into account the size of the loans in question, the credit profile of the borrower, the original terms of the loans and other factors deemed relevant by the relevant credit officers. Depending on various factors such as the size of the loans in question and the credit profile of the borrower, we or the relevant creditors' committee, as the case may be, sometimes engage an outside advisory firm to perform further due diligence in order to supplement the aforementioned assessment. In certain cases, the borrowers also submit self-help proposals to facilitate obtaining the approval for restructuring, which measures are then also taken into consideration by our credit officers or the relevant creditors' committees, as the case may be, in determining their future capacity to continue to perform under the restructured terms.

Charge-off of Restructured Loans

As for loans that we consider to be collectible under modified terms (for example, by extending the due date for the payment of principal and/or interest or reducing the interest rate below the applicable interest rate to a rate below the prevailing market rate, or a combination of the foregoing), we generally restructure such loans under the modified

terms and do not charge off any portion of such loans.

As for loans that we consider to be uncollectible regardless of any modification of terms, we negotiate with the borrower to have a portion of such loans converted into equity securities (usually common stock) of the

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borrower in consideration, among others, of (i) the degree to which such conversion will alleviate the debt burdens and liquidity concerns of the borrower, (ii) our potential upside from the gain in the value of the equity securities compared to the likelihood of collection if the loans were not converted into equity securities, and (iii) the borrower's concerns regarding its shareholding structure subsequent to such conversion. We then charge off the remainder of the loans not converted into equity securities. The value of the equity securities so converted is recorded at fair value, based on the market value of such securities if available or the appraisal value of such securities by an outside appraiser if a market value is unavailable.

Since we generally do not accrue interest on loans subject to recovery proceedings while we generally accrue interest on loans subject to workout unless past due by 90 days or more, charge-off is not a relevant factor we consider when determining the accrual status of a particular restructured loan.

We continue to accrue interest on restructured loans if we conclude that repayment of interest and principal contractually due on the entire debt is reasonably assured. Such conclusion is reached only after we have carefully reviewed the borrower's ability to repay based on an assessment, among others, of various factors such as the size of the loans in question and the credit quality of the borrower by our credit officer or the relevant creditors' committee as supplemented by the due diligence by outside advisory firms, as the case may be.

Potential Problem Loans

We operate an early warning system in order to enable a more systematic and real-time monitoring of loans with significant potential of default. This system assists our management in making decisions by identifying loans which have serious doubt as to the ability of the borrowers to comply with their respective loan repayment terms as well as loans with significant potential of non-repayment.

We classify potential problem loans as loans that are designated as early warning loans and reported to the Financial Supervisory Service. The early warning loans designation applies to borrowers that have been (i) identified by our early warning system as exhibiting signs of credit risk based on the relevant borrower's financial data, credit information and/or transactions with banks and, following such identification and (ii) designated by our loan officers as potential problem loans on their evaluation of known information about such borrowers' possible credit problems. Such loans are required to be reported on a quarterly basis to the Financial Supervisory Service. If a borrower's loans are designated as early warning loans pursuant to the process described above and included in our quarterly report to the Financial Supervisory Service, we consider this to be an indication of serious doubt as to such borrower's ability to comply with repayment terms in the near future. As of December 31, 2018, we had ₩965 billion of potential problem loans.

Provisioning Policy***Loans***

We conduct periodic and systematic detailed reviews of our loan portfolios to identify credit risks and to establish the overall allowance for loan losses. Our management believes the allowance for loan losses reflects the best estimate of the expected credit losses as of the date of each statement of financial position.

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At each reporting date, we assess whether the credit risk on a financial instrument has increased significantly since initial recognition. When making the assessment, we use the change in the risk of a default occurring over the expected life of the financial instrument instead of the change in the amount of expected credit losses. Upon assessment, each asset is classified as in one of the following three stages, which is used as the basis of calculating the loss allowances at the 12-month expected credit losses (ECL) or the lifetime ECL, depending on the stage.

	Category	Provision for credit loss allowance
Stage 1	When credit risk has not increased significantly since the initial recognition	12-months ECL: The ECL associated with the probability of default events occurring within the next 12 months
Stage 2	When credit risk has increased significantly since the initial recognition	Lifetime ECL: A lifetime ECL associated with the probability of default events occurring over the remaining lifetime
Stage 3	When assets are impaired	

To make that assessment, we compare the risk of default of the financial instrument as at the reporting date with such risk of default as at the date of initial recognition, taking into account reasonable supporting information that is available without undue cost or effort and is indicative of significant increases in credit risk since initial recognition. Supporting information also includes historical default data held by us and analysis conducted by internal credit risk rating specialists.

We assign an internal credit risk rating to each individual exposure based on observable data and historical experiences that have been found to have a reasonable correlation with the risk of default. The internal credit risk rating is determined by considering both qualitative and quantitative factors that indicate the risk of default, which may vary depending on the nature of the exposure and the type of borrower.

We accumulate information after analyzing the information regarding exposure to credit risk and default information by the type of product and borrower as well as results of internal credit risk assessment. For some portfolios, we use information obtained from external credit rating agencies when performing these analyses.

We apply statistical techniques to estimate (i) the probability of default for the remaining life of the exposure from the accumulated data and (ii) the changes in the estimated probability of default over time.

We use the indicators defined as per portfolio to determine the significant increase in credit risk. Such indicators generally consist of changes in the risk of default estimated from changes in the internal credit risk rating, qualitative factors, days of delinquency and others.

We consider a financial asset to be in default if it meets one or more of the following conditions:

if a borrower is overdue 90 days or more from the contractual payment date, or

if we determine that it is not possible to recover principal and interest without enforcing the collateral on a financial asset.

We use the following indicators when determining whether a borrower is in default:

qualitative factors (e.g., breach of contract terms),

quantitative factors (e.g., if the same borrower does not perform more than one payment obligations to us, the number of days past due per payment obligation. However, in the case of a specific portfolio, we use the number of days past due for each financial instrument), and

internal and external data.

The definition of default applied by us generally conforms to the definition of default defined for regulatory capital management purposes. However, depending on the situation, the information used to determine whether default has incurred and the extent thereof may vary.

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We measure expected credit losses on a forward-looking basis, and expected credit losses reflects information presented by internal experts based on a variety of sources. For purposes of estimating such forward-looking information, we utilize economic outlook and projections published by domestic and overseas research institutes or government and public agencies.

We reflect future macroeconomic conditions anticipated from a bias-free, neutral standpoint in measuring expected credit losses. Expected credit losses in this respect reflect conditions that are most likely to occur and are based on the same assumptions that we use in our business plan and management strategy.

Key variables used in measuring expected credit losses are as follows:

Probability of default (PD)

Loss given default (LGD)

Exposure at default (EAD)

These variables have been estimated from historical experience data by using statistical techniques developed internally by Shinhan Bank and have been adjusted to reflect forward-looking information. When measuring expected credit losses on financial assets, Shinhan Bank reflects a period of expected credit loss measurement based on a contractual maturity. The Bank takes into consideration the extension rights held by a borrower when deciding the contractual maturity.

Risk factors such as PD, LGD and EAD are collectively estimated according to the following criteria:

Type of products,

Internal credit risk rating,

Type of collateral,

Loan-to-value ratio,

Industry that the borrower belongs to,

Location of the borrower or collateral, and

Days of delinquency.

The criteria for classification of groups are periodically reviewed to maintain homogeneity of the group and are adjusted if necessary. We use external benchmark information to supplement internal information for a particular portfolio that does not have sufficient internal data accumulated from the past experience. See Item 5.A. Operating Results Critical Accounting Policies Impairment of Financial Assets Allowance for Loan Losses.

Credit Cards

Prior to 2017, we established an allowance for the credit card portfolio using a roll-rate model. A roll-rate model is a statistical tool used to monitor the progression of loans based on aging of the balance and established loss rates. The actual loss rates derived from this model are used to project the percentage of losses within each aging category based on performance over a five-year look-back period. BASEL II requires a minimum of nine years of data collection (consisting of a minimum five-year observation period for defaults and a minimum four-year observation period for post-default recoveries) as a necessary condition to using the internal model approach. After its merger with LG Card in 2007, Shinhan Card has worked to establish a risk management system and met the BASEL II nine-year data collection requirement in October 2016. Through the operation of a credit review system and risk management system based on Basel II requirements, we have gained the necessary data to create internal models that can calculate PD/LGD and credit conversion factors for different groups of borrowers of financial assets.

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At the end of December 2016, the Financial Supervisory Service granted Shinhan Card final approval to use the internal model approach. During the first quarter of 2017, Shinhan Card completed the establishment of the IFRS loan loss calculation system, for example, by replacing BASEL II risk components with risk components for financial reporting in accordance with IAS 39, and Shinhan Card revised the calculation methodology of loan losses from a roll-rate model to an internal model approach.

The internal model approach calculates separate default rates and loss given default for different groups of customers, differentiated based on the characteristics of both the customers and the products that they use. The internal model approach disaggregates customers into more than twice the number of groups than does the roll-rate model. Whereas the roll-rate model does not distinguish between customers with high and low risks of default when calculating roll rates, the internal model approach allows for a more sophisticated calculation of loan loss that reflects the customers credit ratings.

Our general policy is to be proactive in our collection procedures, and we therefore emphasize collections at an early stage of delinquency, although we increase the level of collection efforts as the delinquency period increases with respect to the relevant account. Efforts to collect from cardholders whose account balances are up to 30 days past due are generally made by our credit support centers at Shinhan Card.

For card accounts with balances that are more than 30 days past due, we generally assign collection to our collection branches. During the first two months of their appointment, these collection branches rely on postal or telephone notice and take measures to locate and provisionally attach accounts receivables or other properties of the delinquent cardholders. For card accounts that are charged off, we outsource collection to external collection centers such as Shinhan Credit Information, which is our subsidiary, Mirae Credit Information Services Corp. and Koryo Credit Information.

Loan Aging Schedule

The following table shows our loan aging schedule (excluding accrued interest) for all loans as of the dates indicated.

As of December 31,	Current		Past Due Up to 3 Months		Past Due 3-6 Months		Past Due More Than 6 Months		Total Amount
	Amount	%	Amount	%	Amount	%	Amount	%	
	(In billions of Won, except percentages)								
2014	₩ 221,273	98.84	₩ 1,320	0.59	₩ 706	0.32	₩ 580	0.26	₩ 223,879
2015	245,997	99.02	1,098	0.44	781	0.31	553	0.22	248,429
2016	258,650	99.10	1,180	0.45	643	0.25	531	0.20	261,004
2017	274,935	99.08	1,479	0.53	616	0.22	459	0.17	277,489
2018	300,324	99.09	1,656	0.55	684	0.23	406	0.13	303,070

Non-Performing Loans

Non-performing loans are defined as loans past due by more than 90 days. The following table shows, as of the dates indicated, the amount of the total non-performing loan portfolio and as a percentage of our total loans.

	As of December 31,				
	2014	2015	2016	2017	2018
	(In billions of Won, except percentages)				
Total non-performing loans	₩ 1,286	₩ 1,333	₩ 1,174	₩ 1,075	₩ 1,090
As a percentage of total loans	0.57%	0.54%	0.45%	0.39%	0.36%

Table of Contents**Analysis of Non-Performing Loans**

The following table sets forth, for the periods indicated, the total non-performing loans by the borrower type.

2014	Ratio		2015	Ratio		As of December 31,			2017	Ratio		2018
	Non-Performing Loans	Non-Performing Loans		Non-Performing Loans	Non-Performing Loans	Total Loans	Non-Performing Loans	Non-Performing Loans		Non-Performing Loans	Non-Performing Loans	
Total Loans	Non-Performing Loans	Ratio	Total Loans	Non-Performing Loans	Ratio	Total Loans	Non-Performing Loans	Ratio	Total Loans	Non-Performing Loans	Ratio	Total Loans
(In billions of Won, except percentages)												
₩ 2,145	₩ 551	0.49%	₩ 125,155	₩ 664	0.53%	₩ 128,672	₩ 480	0.37%	₩ 138,277	₩ 325	0.24%	₩ 151,647
2,135			2,191	1	0.05	2,154			2,298	1	0.04	2,831
4,684			4,653			4,730			2,970			3,586
1,844	15	0.81	1,875	16	0.85	1,814	20	1.10	1,713	15	0.88	1,726
0,808	566	0.47	133,874	680	0.51	137,370	500	0.36	145,258	341	0.23	159,790
0,652	56	0.11	54,983	45	0.08	56,235	33	0.06	59,078	45	0.08	62,394
4,278	173	0.50	41,035	193	0.47	47,949	222	0.46	52,512	296	0.56	58,438
4,930	229	0.27	96,018	238	0.25	104,184	255	0.24	111,590	341	0.31	120,832
3,141	491	2.71	18,537	415	2.24	19,450	419	2.15	20,641	393	1.90	22,448
3,879	₩ 1,286	0.57%	₩ 248,429	₩ 1,333	0.54%	₩ 261,004	₩ 1,174	0.45%	₩ 277,489	₩ 1,075	0.39%	₩ 303,070

Notes:

(1)

The number of days past due of restructured credit card loans is calculated from the first date of non-payment regardless of subsequent modification of terms.

(2) Includes debtors such as local and regional authorities, state-owned enterprises and non-profit organizations.

Table of Contents**Non-Performing Loans by Industry**

The following table sets forth a breakdown of our non-performing corporate loans by industry as of December 31, 2018.

Industry	As of December 31, 2018	
	Aggregate Non-Performing Corporate Loan Balance (In billions of Won)	Percentage of Total Non-Performing Corporate Loan Balance (Percentages)
Construction	₩ 7	2.4%
Manufacturing	111	37.8
Real estate, leasing and service	37	12.6
Retail and wholesale	42	14.3
Finance and insurance	1	0.3
Hotel and leisure	20	6.8
Transportation, storage and communication	16	5.4
Other service ⁽¹⁾	41	13.9
Other ⁽²⁾	19	6.5
Total	₩ 294	100.0%

Notes:

- (1) Includes other service industries such as publication, media and education.
(2) Includes other industries such as agriculture, forestry, mining, electricity and gas.

Table of Contents**Top 20 Non-Performing Loans**

As of December 31, 2018, our 20 largest non-performing loans accounted 11.2% of our total non-performing loan portfolio. The following table shows, at the date indicated, certain information regarding our 20 largest non-performing loans.

			As of December 31, 2018		
Industry			Gross Principal Outstanding		Allowance for Loan Losses
			(In billions of Won)		
1	Borrower A	Manufacturing	₩	21	₩ 7
2	Borrower B	Other service		16	4
3	Borrower C	Retail and wholesale		12	12
4	Borrower D	Manufacturing		11	4
5	Borrower E	Manufacturing		9	9
6	Borrower F	Real estate, leasing and service		8	
7	Borrower G	Transportation, storage, and communication		5	1
8	Borrower H	Real estate, leasing and service		5	2
9	Borrower I	Real estate, leasing and service		4	1
10	Borrower J	Other service		4	2
11	Borrower K	Real estate, leasing and service		3	
12	Borrower L	Manufacturing		3	3
13	Borrower M	Transportation, storage, and communication		3	
14	Borrower N	Other service		3	
15	Borrower O	Other service		3	3
16	Borrower P	Real estate, leasing and service		3	
17	Borrower Q	Real estate, leasing and service		3	1
18	Borrower R	Other service		2	2
19	Borrower S	Other service		2	2
20	Borrower T	Transportation, storage, and communication		2	2
			₩	122	₩ 55

Non-Performing Loan Strategy

One of our primary objectives is to prevent our loans from becoming non-performing. Through our corporate credit rating system, which is designed to prevent our loan officers from extending new loans to borrowers with high credit risks based on the borrower's credit rating, we seek to reduce credit risk related to future non-performing loans. Our early warning system is designed to bring any sudden increase in a borrower's credit risk to the attention of our loan officers, who then closely monitor such loans.

If a loan becomes non-performing notwithstanding such preventive mechanism, an officer at the branch level responsible for monitoring non-performing loans will commence due diligence on the borrower's assets, send a notice demanding payment or a notice that we will take or prepare for legal action.

At the same time, we also initiate our non-performing loan management process, which includes:

identifying loans subject to a proposed sale by assessing the estimated losses from such sale based on the estimated recovery value of collateral, if any, for such non-performing loans;

identifying loans subject to charge-off based on the estimated recovery value of collateral, if any, for such non-performing loans and the estimated rate of recovery of unsecured loans; and

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to a limited extent, identifying commercial loans subject to normalization efforts based on the cash-flow situation of the borrower.

Once the details of a non-performing loan are identified, we pursue early solutions for recovery. Actual recovery efforts for non-performing loans are handled by the relevant department, depending on the nature of such loans and the borrower, among others. The officers or agents of the responsible departments and units use a variety of methods to resolve non-performing loans, including:

making phone calls and paying visits to the borrower to request payment;

continuing to assess and evaluate assets of our borrowers; and

if necessary, initiating legal action such as foreclosures, attachment and litigation.

In order to promote speedy recovery on loans subject to foreclosures and litigation, the branch responsible for handling these loans may transfer them to the relevant unit at headquarters.

Our policy is to commence legal action within one month after default on promissory notes and four months after delinquency of payment on other types of loans. For loans to insolvent or bankrupt borrowers or when we conclude that it is not possible to recover through normal procedures, we take prompt legal actions regardless of the grace period.

In addition to making efforts to collect on these non-performing loans, we take other measures to reduce the level of our non-performing loans, including:

selling non-performing loans to third parties including the Korea Asset Management Corporation;

entering into asset-backed securitization transactions with respect to non-performing loans;

managing retail loans that are three months or more past due through Shinhan Credit Information under an agency agreement; and

using third-party collection agencies including credit information companies.

In 2018, we sold non-performing loans in the amount of ₩31 billion to third parties, including ₩19 billion transferred to Hana F&I Inc., an investment management company. Loans transferred to third parties meet the criteria of true sale and are derecognized accordingly.

The following table presents a roll-forward of our non-performing loans in 2018.

	(In billions of Won)	
Non-performing loans as of December 31, 2017	₩	1,153
Additional non-performing loans due to delinquency		298
Loans sold		(31)
Loans charged off		(223)
Loans modified and returned to performing		(39)
Other adjustments ⁽¹⁾		(68)
Non-performing loans as of December 31, 2018	₩	1,090

Note:

- (1) Represents loans paid down or paid off and loans returned to performing other than as a result of modification. We do not separately collect and analyze data relating to non-performing loans other than those that were sold, charged off, modified and returned to performing, or transferred to held-for-sale investment portfolio.

Table of Contents**Allocation of Allowance for Loan Losses**

The following table presents, as of the dates indicated, the allocation of our loan loss allowance by loan type. The table as of December 31, 2018 has been presented separately due to the adoption of IFRS 9 from January 1, 2018.

	As of December 31, 2018					% of Total Allowances
	12-month expected credit Losses	Lifetime expected credit losses		Total		
		Not- impaired	Impaired			
Corporate						
Corporate loans	₩ 419	₩ 568	₩ 482	₩ 1,469		53.9%
Public and other	4	5	10	19		0.7
Loan to banks	6			6		0.2
Lease financing	9	9	32	50		1.8
Total corporate	438	582	524	1,544		56.6
Retail						
Mortgages and home equity	2	6	2	10		0.4
Other retail	216	200	368	784		28.8
Total retail	218	206	370	794		29.2
Credit cards	75	240	72	387		14.2
Total allowance for loan losses	₩ 731	₩ 1,028	₩ 966	₩ 2,725		100.0%

	As of December 31,							
	2014		2015		2016		2017	
	(In billions of Won, except percentages)							
	Amount	% of Total Allowances	Amount	% of Total Allowances	Amount	% of Total Allowances	Amount	% of Total Allowances
Corporate								
Corporate loans	₩ 1,502	60.1%	₩ 1,357	58.5%	₩ 1,312	55.6%	₩ 1,285	55.6%
Public and other	11	0.4	8	0.4	8	0.3	5	0.2
Loan to banks	12	0.5	10	0.4	8	0.3	9	0.4
Lease financing	26	1	29	1.3	34	1.4	50	2.2
Total corporate	1,551	62	1,404	60.6	1,362	57.7	1,349	58.4
Retail								
Mortgages and home equity	31	1.2	33	1.4	29	1.2	27	1.2
Other retail	198	7.9	206	8.9	267	11.3	331	14.3

Total retail	229	9.2	239	10.3	296	12.5	358	15.5
Credit cards	721	28.8	675	29.1	703	29.8	604	26.1
Total allowance for loan losses	₩2,501	100.0%	₩2,318	100.0%	₩2,361	100.0%	₩2,311	100.0%

Our total allowance for loan losses increased by ₩414 billion, or 17.9%, to ₩2,725 billion as of December 31, 2018 from ₩2,311 billion as of December 31, 2017, primarily due to the replacement of the model for impairment loss from the incurred loss model under the previous guidance to the expected credit loss model under IFRS 9 adopted from January 1, 2018, which requires us to recognize impairment loss earlier and on a more forward-looking basis.

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Our total allowance for loan losses decreased by ₩50 billion, or 2.1%, to ₩2,311 billion as of December 31, 2017 from ₩2,361 billion as of December 31, 2016, primarily due to an increase in reversal of allowances for credit card loan losses as a result of changing the allowance model of Shinhan Card from a roll-rate model in 2016 to an internal model approach in 2017, which was partially offset by an increase in allowance for retail loan losses due to an increase in exposure to retail customers during 2017.

Analysis of Allowance for Loan Losses

The following tables present an analysis of our loan loss experience for each of the years indicated. The table for 2018 has been presented separately due to the adoption of IFRS 9 from January 1, 2018.

	2018			
	(In billions of Won, except percentages)			
	12-month expected credit losses	Lifetime expected credit losses		Total
	Not-impaired	Impaired		
Balance at the beginning of the period	₩ 731	₩ 1,088	₩ 1,053	₩ 2,872
Stage Transfer	52	(52)		
Amounts charged against income	24	160	521	705
Gross charge-offs:				
Corporate:				
Corporate loans	(1)		(365)	(366)
Public and other			(5)	(5)
Loan to banks				
Lease financing			(5)	(5)
Retail:				
Mortgage and home equity			(4)	(4)
Other retail			(361)	(361)
Credit cards			(192)	(192)
Total gross charge-offs	(1)		(932)	(933)
Recoveries:				
Corporate:				
Corporate loans			68	68
Public and other			1	1
Loan to banks				
Lease financing			2	2
Retail:				
Mortgage and home equity				
Other retail			130	130
Credit cards			110	110
Total recoveries			311	311

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Other	(74)	(168)	12	(230)
Net charge-offs	(75)	(168)	(609)	(852)
Balance at the end of the period	₩ 732	₩ 1,028	₩ 965	₩ 2,725
Ratio of net charge-offs during the period to average loans outstanding during the period	0.02%	0.06%	0.21%	0.29%

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	2014	2015	2016	2017
	(In billions of Won, except percentages)			
Balance at the beginning of the period	₩ 2,476	₩ 2,501	₩ 2,318	₩ 2,361
Amounts charged against income	895	1,022	1,103	800
Gross charge-offs:				
Corporate:				
Corporate loans	(515)	(731)	(758)	(376)
Public and other		(2)	(1)	(1)
Loan to banks				
Lease financing	(16)	(60)	(42)	(4)
Retail:				
Mortgage and home equity	(3)			(2)
Other retail	(153)	(128)	(130)	(137)
Credit cards	(500)	(520)	(462)	(540)
Total gross charge-offs	(1,187)	(1,441)	(1,393)	(1,060)
Recoveries:				
Corporate:				
Corporate loans	177	88	125	81
Public and other	11			
Loan to banks				
Lease financing	2	1	1	1
Retail:				
Mortgage and home equity		3		1
Other retail	19	24	35	43
Credit cards	182	171	176	185
Total recoveries	391	287	337	311
Other	(74)	(51)	(4)	(101)
Net charge-offs	(870)	(1,205)	(1,060)	(850)
Balance at the end of the period	₩ 2,501	₩ 2,318	₩ 2,361	₩ 2,311
Ratio of net charge-offs during the period to average loans outstanding during the period	0.41%	0.51%	0.42%	0.32%

Loan Charge-offs

Our gross charge-offs decreased by 13.9% from ₩1,060 billion in 2017 to ₩913 billion in 2018, primarily due to a decrease in the amount of charge-offs for credit cards in 2018 compared to 2017. Our gross charge-offs decreased by 23.9% from ₩1,393 billion in 2016 to ₩1,060 billion in 2017, primarily due to a decrease in the amount of charge-offs for corporate loans in 2017 compared to 2016. Our gross charge-offs decreased by 3.3% from ₩1,441 billion in 2015 to ₩1,393 billion in 2016, primarily due to a decrease in the amount of charge-offs for credit card loans compared to 2015.

In 2018, the charge-off on restructured loans amounted to ₩59 billion, of which ₩67 billion was related to loans converted into equity securities as part of restructuring. With respect to a loan that we consider to be uncollectible regardless of any modification of terms, we convert a portion of such loan into equity securities following negotiation with the borrower and charge off the remainder of such loan as previously discussed in Troubled Debt Restructurings Charge-off of Loans Subject to Restructuring. The equity securities so converted are recorded at fair value, based on the market value of such securities if available or the appraisal value of such securities by an outside appraiser if a market value is unavailable.

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We attempt to minimize loans to be charged off by practicing a sound credit approval process based on credit risk analysis prior to extending loans and a systematic management of outstanding loans. For charge-off of restructured loans, see [Loan Modification Programs for Loans under Restructuring](#) [Charge-off of Restructured Loans](#) above.

Loans to be Charged-off

Loans are charged off if they are deemed to be uncollectible by falling under any of the following categories:

loans for which collection is not foreseeable due to insolvency or bankruptcy, dissolution or the termination of the debtor's business;

loans for which collection is not foreseeable due to the death or disappearance of debtors;

loans for which collection expenses exceed the collectable amount;

loans for which collection is not possible through legal or any other means;

payments in arrears in respect of credit cards that are overdue for more than six months;

payments outstanding on unsecured retail loans that are overdue for more than 12 months;

payments in arrears in respect of leases that are overdue for more than 12 months;

the portion of loans classified as estimated loss, net of any recovery from collateral, which is deemed to be uncollectible; or

domestic loans that are required by the Financial Supervisory Service to be charged-off, or loans held by our foreign subsidiaries or branches for which a charge-off or special provisioning is required by the relevant regulatory authority.

Timeline for Charge-off

Shinhan Bank's loans to be charged-off must be charged-off within one year of the month they are deemed to be uncollectible. If such loans are not charged-off within one year, the reason for the delay must be reported to Shinhan Bank's Audit Department.

Procedure for Charge-off Approval

An application for Shinhan Bank's loans to be charged-off is submitted by the relevant branch or department to the Credit Collection Department. The Credit Collection Department refers the application to the Audit Department for their review to ensure compliance with the Bank's internal procedures for charge-offs. The Credit Collection Department, after reviewing the application to confirm that it meets relevant requirements, seeks approval from the Financial Supervisory Service for the charge-offs, which is typically granted. Once the Financial Supervisory Service approves (except for household loans with estimated losses of ₩10 million or less, whose charge-off is considered automatically approved by the Financial Supervisory Service), loans are charged-off upon approval by the President of Shinhan Bank. As for Shinhan Card, it generally charges off receivables that are 180 days past due following internal review.

Treatment of Loans Charged-off

Once loans are charged off, they are derecognized from our statements of financial position and are classified as charged-off loans. We continue collection efforts in respect of these loans through third-party collection agencies, including the Korea Asset Management Corporation, and Shinhan Credit Information, which is our subsidiary. The General Manager of the Credit Collection Department must report to the Financial Supervisory Service the amounts of loans permanently written off or recovered during each reporting period.

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Treatment of Collateral

When we determine that a loan collateralized by real estate cannot be recovered through normal collection channels, we generally petition a court to foreclose and sell the collateral through a court-supervised auction within one month after default and insolvency and within four months after delinquency. However, this procedure does not apply to companies under restructuring, recovery proceedings, workout or other court proceedings where there are restrictions on such auction procedures. Filing of such petition with the court generally encourages the debtor to repay the overdue loan. If a debtor ultimately fails to repay and the court grants its approval for foreclosure, we sell the collateral and recover the principal amount and interest accrued up to the sales price, net of expenses incurred from the auction. Foreclosure proceedings under the laws and regulations of Korea typically take seven months to one year from initiation to collection depending on the nature of the collateral.

Financial Statement Presentation

Our financial statements generally report as charge-offs all unsecured retail loans that are overdue for more than 12 months. Leases are charged off when past due for more than twelve months. For collateral dependent loans, we charge off the excess of the book value of the subject loan over the amount received or to be received from the sale of the underlying collateral when the collateral is sold as part of a foreclosure proceeding and its sale price becomes known through court publication as part of such proceeding.

Investment Portfolio

Investment Policy

We invest in and trade Won-denominated and, to a lesser extent, foreign currency-denominated securities for our own account in order to:

maintain the stability and diversification of our assets;

maintain adequate sources of back-up liquidity to match our funding requirements; and

supplement income from our core lending activities.

When making an investment decision with respect to particular securities, we consider macroeconomic trends, industry analysis and credit evaluation, among others.

Our securities investment activities are subject to a number of regulatory guidelines, including limitations prescribed under the Financial Holding Companies Act and the Banking Act. Generally, a financial holding company is prohibited from acquiring more than 5% of the total issued and outstanding shares of another finance-related company (other than its direct and indirect subsidiaries). Furthermore, under these regulations, Shinhan Bank must limit its investments in shares and securities with a maturity in excess of three years (other than monetary stabilization bonds issued by the Bank of Korea and national government bonds) to 100.0% of the sum of Tier I and Tier II capital (less any deductions) of Shinhan Bank. Generally, Shinhan Bank is also prohibited from acquiring more than 15.0% of the shares with voting rights issued by any other corporation (other than for the purpose of establishing or acquiring a subsidiary). Further information on the regulatory environment governing our investment activities is set out in

Supervision and Regulation Principal Regulations Applicable to Banks Restrictions on Investments in Property,
Principal Regulations Applicable to Banks Restrictions on Shareholdings in Other Companies, Principal Regulations
Applicable to Financial Holding Companies Liquidity and Principal Regulations Applicable to Financial Holding
Companies Restrictions on Shareholdings in Other Companies.

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The following tables set out the book value and fair value of investments in our investment portfolio as of the dates indicated. The table as of December 31, 2018 has been presented separately due to the adoption of IFRS 9 from January 1, 2018.

	As of December 31, 2018	
	Book Value	Fair Value
	(In billions of Won)	
Securities at fair value through other comprehensive income		
Equity securities	₩ 636	₩ 636
Debt securities:		
Korean treasury and governmental agencies	7,756	7,756
Debt securities issued by financial institutions	17,341	17,341
Corporate debt securities	9,183	9,183
Debt securities issued by foreign government	1,220	1,220
Mortgage-backed and asset-backed securities	2,178	2,178
Total Securities at fair value through other comprehensive income	₩ 38,314	₩ 38,314
Securities at amortized cost		
Debt securities:		
Korean treasury and governmental agencies	₩ 17,143	₩ 18,139
Debt securities issued by financial institutions	2,247	2,271
Corporate debt securities	3,955	4,108
Debt securities issued by foreign government	857	835
Mortgage-backed and asset-backed securities	4,276	4,324
Total Securities at amortized cost	₩ 28,478	₩ 29,677
Financial assets at fair value through profit or loss		
Equity securities	₩ 1,165	₩ 1,165
Debt securities:		
Korean treasury and governmental agencies	2,734	2,734
Debt securities issued by financial institutions	9,593	9,593
Corporate debt securities	15,722	15,722
Debt securities issued by foreign governments	31	31
Mortgage-backed and asset-backed securities	435	435
Other debt securities ⁽¹⁾	11,620	11,620
Sub-total Securities at fair value	₩ 41,300	₩ 41,300

Others:

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Loans at fair value	1,209	1,209
Due from banks at fair value	871	871
Gold/Silver deposits	155	155
Total Financial assets at fair value through profit or loss	₩ 43,535	₩ 43,535

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	As of December 31, 2016		As of December 31, 2017	
	Book Value	Fair Value	Book Value	Fair Value
	(In billions of Won)			
Financial assets designated at fair value				
Marketable equity securities	₩ 1,508	₩ 1,508	₩ 1,468	₩ 1,468
Debt securities:				
Korean treasury and governmental agencies	334	334	530	530
Debt securities issued by financial institutions	794	794	716	716
Corporate debt securities	780	780	856	856
Debt securities issued by foreign government			9	9
Mortgage-backed and asset-backed securities				
Others				
Total Fair Value Through Profit and Loss	₩ 3,416	₩ 3,416	₩ 3,579	₩ 3,579
Available-for-sale securities				
Marketable equity securities	₩ 4,841	₩ 4,841	₩ 4,930	₩ 4,930
Debt securities:				
Korean treasury and governmental agencies	4,198	4,198	6,497	6,497
Debt securities issued by financial institutions	17,225	17,225	17,650	17,650
Corporate debt securities	7,937	7,937	9,602	9,602
Debt securities issued by foreign government	1,110	1,110	1,073	1,073
Mortgage-backed and asset-backed securities	2,352	2,352	2,365	2,365
Total Available-for-sale	₩ 37,663	₩ 37,663	₩ 42,117	₩ 42,117
Held-to-maturity securities				
Debt securities:				
Korean treasury and governmental agencies	₩ 10,894	₩ 11,742	₩ 14,495	₩ 14,913
Debt securities issued by financial institutions	2,092	2,073	2,708	2,694
Corporate debt securities	3,505	3,661	3,859	3,897
Debt securities issued by foreign government	621	565	669	643
Mortgage-backed and asset-backed securities	2,693	2,691	3,260	3,243
Total Held-to-maturity	₩ 19,805	₩ 20,732	₩ 24,991	₩ 25,390
Trading Securities				
Marketable equity securities	₩ 4,058	₩ 4,058	₩ 4,634	₩ 4,634
Debt securities:				
Korean treasury and governmental agencies	4,236	4,236	3,178	3,178
Financial institutions	7,461	7,461	8,014	8,014
Corporations	10,244	10,244	11,863	11,863
Mortgage-backed and asset-backed securities	348	348	509	509
Debt securities issued by foreign governments	101	101	77	77
Other trading assets	248	248	189	189

Total	Trading	₩ 26,696	₩ 26,696	₩ 28,464	₩ 28,464
Total securities		₩ 87,580	₩ 88,507	₩ 99,151	₩ 99,550

Note:

- (1) Other debt securities included puttable equity investment, beneficiary certificates and restricted reserve for claims of customers deposits (trusts) classified as debt instruments in accordance with IFRS 9.

Table of Contents**Maturity Analysis**

The following table categorizes our securities by maturity and weighted average yield as of December 31, 2018.

As of December 31, 2018

	1 Year or Less		Over 1 but within 5 Years		Over 5 but within 10 Years		Over 10 Years		Total	
	Weighted		Weighted		Weighted		Weighted		Weighted	
	Carrying	Average	Carrying	Average	Carrying	Average	Carrying	Average	Carrying	Average
	Amount	Yield ⁽¹⁾	Amount	Yield ⁽¹⁾	Amount	Yield ⁽¹⁾	Amount	Yield ⁽¹⁾	Amount	Yield ⁽¹⁾
(In billions of Won, except percentages)										
Securities at fair value through other comprehensive income:										
Korean treasury securities and government agencies	₩ 1,230	1.76%	₩ 5,532	1.85%	₩ 717	2.00%	₩ 277	2.27%	₩ 7,756	1.87%
Debt securities issued by financial institutions	9,791	1.83%	7,285	2.45%	253	3.09%	12	5.90%	17,341	2.11%
Corporate debt securities	2,582	2.02%	5,323	2.48%	892	2.52%	386	2.78%	9,183	2.36%
Debt securities issued by foreign governments	838	3.48%	224	5.35%	106	5.71%	52	5.68%	1,220	4.11%
Mortgage-backed securities and asset-backed securities	596	1.83%	1,401	2.14%	101	2.29%	80	3.54%	2,178	2.12%
Total	₩ 15,037	1.95%	₩ 19,765	2.30%	₩ 2,069	2.56%	₩ 807	2.92%	₩ 37,678	2.19%

Securities at amortized cost:

Korean treasury securities and government agencies	₩ 2,053	2.96%	₩ 9,161	2.17%	₩ 1,161	3.79%	₩ 4,768	2.78%	₩ 17,143	2.55%
Debt securities issued by financial	673	2.38%	563	3.55%	137	3.57%	874	3.32%	2,247	3.11%

institutions											
Corporate debt securities	668	2.48%	862	3.06%	548	3.53%	1,877	2.66%	3,955	2.84%	
Debt securities issued by foreign governments	50	6.48%	252	4.21%	57	8.01%	498	4.15%	857	4.56%	
Mortgage-backed securities and asset-backed securities		%	2,671	2.36%	1,063	2.61%	542	2.66%	4,276	2.46%	
Total	₩ 3,444	2.81%	₩ 13,509	2.36%	₩ 2,966	3.39%	₩ 8,559	2.88%	₩ 28,478	2.68%	

Financial assets at fair value through profit or loss:

Korean treasury securities and government agencies	₩ 194	3.13%	₩ 1,547	2.00%	₩ 828	2.21%	₩ 165	3.76%	₩ 2,734	2.25%	
Debt securities issued by financial institutions	5,219	2.03%	3,729	2.35%	136	4.03%	509	3.94%	9,593	2.29%	
Corporate debt securities	12,153	2.24%	2,775	2.14%	341	3.00%	453	3.13%	15,722	2.27%	
Debt securities issued by foreign governments	31	2.21%		%		%		%	31	2.21%	
Mortgage-backed securities and asset-backed securities	172	2.04%	220	2.81%	10	1.59%	33	3.39%	435	2.52%	
Other debt securities	11,620	%		%		%		%	11,620	%	
Total	₩ 29,389	1.32%	₩ 8,271	2.23%	₩ 1,315	2.60%	₩ 1,160	3.58%	₩ 40,135	1.62%	
Total	₩ 47,870		₩ 41,545		₩ 6,350		₩ 10,526		₩ 106,291		

Note:

(1) The weighted-average yield for the portfolio represents the yield to maturity for each individual security, weighted using its amortized cost.

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The following table presents securities held by us whose aggregate book value exceeded 10% of our stockholders equity as of December 31, 2018. As of December 31, 2018, 10% of our stockholders equity was ₩3,665 billion.

Name of issuer:	As of December 31, 2018	
	Book Value	Fair Value
	(In billions of Won)	
Ministry of Strategy and Finance	₩ 27,179	₩ 28,160
The Korea Development Bank	₩ 4,712	₩ 4,723
The Bank of Korea	₩ 5,972	₩ 5,973
The Korea Housing Finance Corp	₩ 6,726	₩ 6,781

All of the above entities are either an agency of the Korean government or an entity controlled by the Korean government.

Credit-Related Commitments and Guarantees

In the normal course of our operations, we make various commitments and guarantees to meet the financing and other business needs of our customers. Commitments and guarantees are usually in the form of, among others, commitments to extend credit, commercial letters of credit, standby letters of credit and performance guarantees. The contractual amount of these financial instruments represents the maximum possible loss amount if the account party draws down the commitment or we should fulfill our obligation under the guarantee and the account party fails to perform under the contract.

The following table sets forth our credit-related commitments and guarantees as of the dates indicated.

	2016	As of December 31,	
		2017	2018
	(In billions of Won)		
Commitments to extend credit	₩ 74,541	₩ 73,373	₩ 89,873
Commercial letters of credit	2,777	2,744	3,162
Others ⁽¹⁾	83,011	85,276	93,960
Total	₩ 160,329	₩ 161,393	₩ 186,995

Note:

(1)

Consists of financial guarantees, performance guarantees, liquidity facilities to special purpose entities, acceptances, guarantee on trust accounts, endorsed bills and unused credit limits on credit cards.

We have credit-related commitments that are not reflected on our statements of financial position, which primarily consist of commitments to extend credit and commercial letters of credit. Commitments to extend credit, including credit lines, represent unfunded portions of authorizations to extend credit in the form of loans. These commitments expire on fixed dates and a customer is required to comply with predetermined conditions to draw funds under the commitments. Commercial letters of credit are undertakings on behalf of customers authorizing third parties to make drawdowns up to a stipulated amount under specific terms and conditions. They are generally short-term and collateralized by the underlying shipments of goods to which they relate.

We also have guarantees that are recorded on our statements of financial position at their fair value at inception which are amortized over the life of the guarantees. Such guarantees generally include standby letters

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of credit, other financial and performance guarantees and liquidity facilities to special purpose entities. Standby letters of credit are irrevocable obligations to pay third-party beneficiaries when our customers fail to repay loans or debt instruments, which are generally in foreign currencies. A substantial portion of these standby letters of credit are secured by collateral, including trade-related documents. Other financial and performance guarantees are irrevocable assurances that we will pay beneficiaries if our customers fail to perform their obligations under certain contracts. Liquidity facilities to special purpose entities are irrevocable commitments to provide contingent liquidity credit lines to special purpose entities established by our customers in the event that a triggering event such as shortage of cash occurs.

The commitments and guarantees do not necessarily represent our exposure since they often expire unused.

Derivatives

As discussed under **Our Principal Activities** **Other Banking Services** **Derivatives Trading** above, we engage in derivatives trading activities primarily on behalf of our customers so that they may hedge their risks and also enter into back-to-back derivatives with other financial institutions to cover exposures arising from such transactions. In addition, we enter into derivatives transactions to hedge against risk exposures arising from our own assets and liabilities, some of which are non-trading derivatives that do not qualify for hedge accounting treatment.

The following shows, as of December 31, 2018, the gross notional or contractual amounts of derivatives held or issued for (i) trading and (ii) non-trading that qualify for hedge accounting.

	As of December 31, 2018		
	Underlying Notional Amount⁽¹⁾	Estimated Fair Value Assets	Estimated Fair Value Liabilities
	(In billions of Won)		
Trading:			
Foreign exchange derivatives:			
Future and forward contracts	₩ 140,241	₩ 913	₩ 871
Swaps	31,795	394	373
Options	1,940	7	12
Sub-total	173,976	1,314	1,256
Interest rate derivatives:			
Future and forward contracts	1,740	1	2
Swaps	88,090	251	172
Options	294		5
Sub-total	90,124	252	179
Credit derivatives:			
Swaps	3,094	38	15

Sub-total	3,094	38	15
Equity derivatives:			
Swaps and forward contracts	5,150	52	206
Options	3,355	40	112
Future contracts	630	16	1
Sub-total	9,135	108	319

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	As of December 31, 2018		
	Underlying Notional Amount ⁽¹⁾	Estimated Fair Value Assets	Estimated Fair Value Liabilities
	(In billions of Won)		
Commodity derivatives:			
Swaps and forward contracts	1,062	8	74
Options	5		
Future contracts	246	8	4
Sub-total	1,313	16	78
Total	₩ 277,642	₩ 1,728	₩ 1,847
Non-trading:			
Hedge accounting:			
Foreign exchange derivatives:			
Swaps	₩ 4,144	₩ 22	₩ 79
Future and forward contracts	1,522	9	31
Interest rate derivatives:			
Swaps	10,148	35	483
Total	₩ 15,814	₩ 66	₩ 593

Note:

(1) Notional amounts in foreign currencies were converted into Won at prevailing exchange rates as of December 31, 2018.

Funding

We obtain funding from a variety of sources, both domestic and foreign. Our principal source of funding is customer deposits obtained from our banking operations, and we from time to time issue equity and debt securities, including preferred shares. In addition, our subsidiaries acquire funding through call money, borrowings from the Bank of Korea, other short-term borrowings, corporate debentures and other long-term debt, including debt and equity securities issuances, asset-backed securitizations and repurchase transactions, to complement, or if necessary, replace funding through customer deposits. For further details relating to funding by us and our subsidiaries, see Item 5.B. Liquidity and Capital Resources.

Deposits

Although the majority of our bank deposits are short-term, the majority of our depositors have historically rolled over their deposits at maturity, providing our banking operation with a stable source of funding.

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The following table shows the average balances of our deposits and the average rates paid on our deposits for the periods indicated.

	2016		2017		2018	
	Average Balance ⁽¹⁾	Average Rate Paid	Average Balance ⁽¹⁾	Average Rate Paid	Average Balance ⁽¹⁾	Average Rate Paid
(In billions of Won, except percentages)						
Interest-bearing deposits:						
Demand deposits	₩ 30,865	0.37%	₩ 35,978	0.36%	₩ 37,714	0.39%
Savings deposits	63,061	0.59	69,671	0.51	74,467	0.56
Time deposits	123,716	1.64	121,050	1.55	130,846	1.81
Other deposits	4,744	1.47	8,164	1.57	8,525	1.96
Total interest-bearing deposits	₩ 222,386	1.16%	₩ 234,863	1.06%	₩ 251,552	1.23%

Note:

(1) Average balances are based on (a) daily balances of Shinhan Bank and (b) quarterly balances for other subsidiaries.

For a breakdown of deposit products, see Our Principal Activities Deposit-taking Activities, except that cover bills sold are recorded on short-term borrowings and securities sold under repurchase agreements are recorded as secured borrowings.

Certificates of Deposit and Other Time Deposits

The following table presents the certificates of deposit and other time deposits in excess of ₩100 million by remaining maturities as of December 31, 2018.

	As of December 31, 2018		
	Certificates of Deposit	Other Time Deposits	Total
(In billions of Won)			
Maturing within three months	₩ 4,121	₩ 27,691	₩ 31,812
After three but within six months	2,309	21,410	23,719
After six but within 12 months	1,985	37,812	39,797
After 12 months	451	6,527	6,978
Total	₩ 8,866	₩ 93,440	₩ 102,306

A majority of our certificates of deposit accounts and other time deposits issued by our foreign offices is in the amount of US\$100,000 or more.

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The following table presents information regarding our short-term borrowings (borrowings with an original maturity of one year or less) for the periods indicated.

Average Balance Outstanding	2016			Year-end Interest Rate	Average Balance Outstanding	2017			Year-end Interest Rate	Average Balance Outstanding	Average Balance Outstanding	2018 Highest Weighted Average Balance Outstanding
	Highest Balances at Any Month-end	Weighted Average Interest Rate ⁽²⁾				Highest Balances at Any Month-end	Weighted Average Interest Rate ⁽²⁾					
₩ 2,451	₩ 2,689	0.65%	0.50 - 0.75%	₩ 2,913	₩ 2,903	₩ 2,977	0.67%	0.50 - 0.75%	₩ 2,330	₩ 2,603	₩ 2,884	₩ 2,884
1,582	2,699	1.35	0.10 - 10.00	857	1,892	4,006	1.69	0.00 - 6.20	1,425	1,977	5,200	5,200
11,180	13,084	0.75	0.00 - 4.60	14,375	13,047	14,478	0.74	0.00 - 12.50	21,884	18,900	21,884	21,884
₩ 15,213	₩ 18,472	0.80%		₩ 18,145	₩ 17,842	₩ 21,461	0.83%		₩ 25,639	₩ 23,480	₩ 29,900	₩ 29,900

Notes:

- (1) Average balances are based on (a) daily balances of Shinhan Bank and (b) quarterly balances for other subsidiaries.
- (2) Weighted-average interest rates are calculated by dividing the total interest expenses by the average amount borrowed.
- (3) Borrowings from the Bank of Korea generally mature within one month for borrowings in Won and six months for borrowings in foreign currencies.
- (4) Other short-term borrowings included borrowings from trust accounts, bills sold, and borrowings in domestic and foreign currencies.

Our short-term borrowings have maturities of less than one year and are generally unsecured with the exception of borrowings from the Bank of Korea, which are generally secured with securities at fair value through other comprehensive income or at amortized cost (previously classified as available-for-sale or held-to-maturity securities under IAS 39) held by us.

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Risk Management

Overview

As a financial services provider, we are exposed to various risks relating to our lending, credit card, insurance, securities investment, trading and leasing businesses, our deposit taking and borrowing activities and our operating environment. The principal risks to which we are exposed are credit risk, market risk, interest rate risk, liquidity risk and operational risk. These risks are recognized, measured and reported in accordance with risk management guidelines established at our holding company level and implemented at the subsidiary level through a carefully stratified checks-and-balances system.

We believe that our risk management system has been instrumental to building our reputation as a well-managed and prudent financial service provider and withstanding various external shocks. In particular, during the global financial crisis of 2008 and 2009, we believe our risk management provided effective early warning signals which helped us to proactively reconfigure our asset portfolio and substantially reduce our exposure to troubled debtors and thereby avoid what could have been a substantially greater credit loss during such crisis, and we are carefully upgrading and refining our risk management system in the face of current and potential economic difficulties at global, regional and domestic levels.

Our group-wide risk management philosophy is to instill a culture of effective risk management and awareness at all levels of our organization and pursue a proper balance between risk and return in our business activities in order to achieve a sustainable growth. In particular, our group-wide risk management is guided by the following core principles:

carrying out all business activities within prescribed risk tolerance levels and prudently balancing profitability and risk management;

standardizing the risk management process and monitoring compliance at a group-wide level;

operating a prudent risk management decision making system backed by active participation by management;

creating and operating a risk management organization independent of business activities;

operating a performance management system that enhances clear and prompt identification of risks when making business decisions;

aiming to achieve preemptive and practical risk management; and

prudent preparation for known and unknown contingencies.

We take the following steps to implement the foregoing risk management principles:

risk capital management Risk capital refers to capital necessary to compensate for losses in case of a potential risk being realized, and risk capital management refers to the process of asset management based on considerations of risk exposure and risk appetite for our total assets so that we can maintain an appropriate level of risk capital. As part of our risk capital management, we and our subsidiaries have adopted and maintain various risk planning processes and reflect such risk planning in our business and financial planning. We also maintain a risk limit management system to ensure that risks in our business do not exceed prescribed limits.

risk monitoring We proactively, preemptively and periodically review risks that may impact our overall operations, including through a multidimensional risk monitoring system. Currently, each of our subsidiaries is required to report to the holding company any factors that could have a material impact on group-wide risk management, and the holding company reports to our chief risk officer and other members of our senior management the results of risk monitoring weekly, monthly and on an *ad hoc* basis as needed. In addition, we perform preemptive risk management through a risk dashboard

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system under which we closely monitor any increase in asset size, risk levels and sensitivity to external factors with respect to the major asset portfolios of each of our subsidiaries, and to the extent such monitoring yields any warning signals, we promptly analyze the causes and, if necessary, formulate and implement actions in response thereto.

risk review Prior to entering any new business, offering any new products or changing any major policies, we review any relevant risk factors based on a prescribed risk management checklist and, in the case of changes for which assessment of risk factors is difficult, perform reasonable decision-making in order to avoid taking any unduly risky action. The risk management departments of all our subsidiaries are required to review all new businesses, products and services prior to their launch and closely monitor the development of any related risks following their launch, and in the case of any action that involves more than one subsidiary, the relevant risk management departments are required to consult with the risk management team at the holding company level prior to making any independent risk reviews.

crisis management We maintain a group-wide risk management system to detect the early warnings signals of any crisis and, in the event of a crisis actually happening, to respond on a timely, efficient and flexible basis so as to ensure our survival as a going concern. Each of our subsidiaries maintains crisis planning for three levels of contingencies, namely, alert, imminent crisis and crisis, determination of which is made based on quantitative and qualitative monitoring and consequence analysis, and upon the occurrence of any such contingency, is required to respond according to a prescribed contingency plan. At the holding company level, we maintain and install a crisis detection and response system which is applied consistently group-wide, and upon the occurrence of an imminent crisis or crisis event at a subsidiary level, we directly take charge of the situation at the holding company level so that we manage it on a concerted group-wide basis.

Organization

Our risk management system is organized along the following hierarchy (from top to bottom): at the holding company level, the Group Risk Management Committee, the Group Risk Management Council, the Group Chief Risk Officer and the Group Risk Management Team, and at the subsidiary level, the Risk Management Committee, the Chief Risk Officer and the Risk Management Team of the relevant subsidiary. The Group Risk Management Committee, which is under the supervision of our holding company's board of directors, sets the basic group-wide risk management policies and strategies. Our Group Chief Risk Officer reports to the Group Risk Management Committee, and the Group Risk Management Council coordinates the risk management policies and strategies at the group level as well as at the subsidiary level among each of our subsidiaries. Each of our subsidiaries also has a separate Risk Management Committee, Risk Management Working Committee and Risk Management Team, whose tasks are to implement the group-wide risk management policies and strategies at the subsidiary level as well as to set risk management policies and strategies specific to such subsidiary in line with the group-wide guidelines. We also have the Group Risk Management Team, which supports our Chief Risk Officer in his or her risk management and supervisory role.

In order to maintain the group-wide risk at an appropriate level, we use a hierarchical risk limit system under which the Group Risk Management Committee assigns reasonable risk limits for the entire group and each of our subsidiaries, and the Risk Management Committee and the Risk Management Working Committee of each of our subsidiaries manage the subsidiary-specific risks by establishing and managing risk limits in more detail by type of risk and type of product for each department and division within such subsidiary. Further details follow.

At the holding company level:

Group Risk Management Committee The Group Risk Management Committee consists of three outside directors of our holding company. The Group Risk Management Committee convenes at least

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quarterly and on an *ad hoc* basis as needed. Specifically, the Group Risk Management Committee does the following: (i) establish the overall risk management policies consistent with management strategies, (ii) set reasonable risk limits for the entire group and each of our subsidiaries, (iii) approve appropriate investment limits or permissible loss limits, (iv) enact and amend risk management regulations, and (v) decide other risk management-related issues the board of directors or the Group Risk Management Committee sees fit to discuss. The results of the Group Risk Management Committee meetings are reported to the board of directors of our holding company. The Group Risk Management Committee makes decisions through affirmative votes by a majority of the committee members.

Group Risk Management Council Comprised of the Group Chief Risk Officer and Chief Risk Officers of each of our subsidiaries, the Group Risk Management Council provides a forum for risk management executives from each subsidiary to discuss our group-wide risk management guidelines and strategy in order to maintain consistency in the group-wide risk policies and strategies.

Group Chief Risk Officer The Group Chief Risk Officer assists the Group Risk Management Committee by implementing the risk policies and strategies as well as ensuring consistency in the risk management systems of our subsidiaries. Furthermore, the Group Chief Risk Officer evaluates the Chief Risk Officer of each subsidiary in addition to monitoring the risk management practices of each subsidiary.

Group Risk Management Team This team provides support and assistance to the Group Chief Risk Officer in carrying out his or her responsibilities.

At the subsidiary level:

Risk Management Committee In order to maintain group-wide risk at an appropriate level, we have established a hierarchical risk limit system where the Group Risk Management Committee establishes risk limits for us and our subsidiaries, and each of our subsidiaries establishes and manages risk limits in more detail by type of risk and type of product for each department and division within such subsidiary. In accordance with the group risk management policies and strategies, the Risk Management Committee at the subsidiary level establishes its own risk management policies and strategies in more detail and the respective risk management department implements those policies and strategies.

Risk Management Team The Risk Management Team, operating independently from the business units of each of our subsidiaries, monitors, assesses, manages and controls the overall risk of its operations and reports all major risk-related issues to the Group Risk Management Team at the holding company level, which then reports to the Group Chief Risk Officer.

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The following is a flowchart of our risk management system at the holding company level and the subsidiary level.

Credit Risk Management

Credit risk, which is the risk of loss from default by borrowers, other obligors or other counterparties to the transactions that we have entered into, is the greatest risk we face. Our credit risk management encompasses all areas of credit that may result in potential economic loss, including not just transactions that are recorded on our balance sheets, but also off-balance-sheet transactions such as guarantees, loan commitments and derivatives transactions. A substantial majority of our credit risk relates to the operations of Shinhan Bank and Shinhan Card.

Credit Risk Management of Shinhan Bank

Shinhan Bank's credit risk management is guided by the following principles:

achieve a profit level corresponding to the level of risks involved;

improve asset quality and achieve an optimal mix of asset portfolios;

avoid excessive loan concentration in a particular borrower or sector;

closely monitor the borrower's ability to repay the debt; and

provide financial support to advance the growth of select customers.

Major policies for Shinhan Bank's credit risk management, including Shinhan Bank's overall credit risk management plan and credit policy guidelines, are determined by the Risk Policy Committee of Shinhan Bank, the executive decision-making body for management of credit risk. The Risk Policy Committee is headed by the Chief Risk Officer, and also comprises of the Chief Credit Officer and the heads of each business unit. In order to separate the loan approval functions from credit policy decision-making, Shinhan Bank has a Credit Review Committee that performs credit review evaluations with a focus on improving the asset quality of and profitability from the loans being made, and operates separately from the Risk Policy Committee. Both the Risk Policy Committee and the Credit Review Committee make decisions by a vote of two-thirds or more of the attending members of the respective committees, which must constitute at least two-thirds of the respective committee members to satisfy the respective quorum.

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Shinhan Bank complies with credit risk management procedures pursuant to internal guidelines and regulations and continually monitors and improves these guidelines and regulations. Its credit risk management procedures include:

credit evaluation and approval;

credit review and monitoring; and

credit risk assessment and control.

Credit Evaluation and Approval

All loan applicants and guarantors are subject to credit evaluation before approval of any loans. Credit evaluation of loan applicants are carried out by senior officers of Shinhan Bank specifically charged with granting loan approvals. Loan evaluation is carried out by a group rather than by an individual reviewer through an objective and deliberative process. Credit ratings of loan applicants and guarantors influence loan interest rates, the level of internal approval required, credit exposure limits, calculation of potential losses and estimated cost of capital, and therefore are determined objectively and independently by the relevant business unit. Shinhan Bank uses a credit scoring system for retail loans and a credit-risk rating system for corporate loans.

Each of Shinhan Bank's borrowers is assigned a credit rating, which is based on a comprehensive internal credit evaluation system that considers a variety of criteria. For retail borrowers, the credit rating takes into account the borrower's biographic details, past dealings with Shinhan Bank and external credit rating information, among other things. For corporate borrowers, the credit rating takes into account financial indicators as well as non-financial indicators such as industry risk, operational risk and management risk, among other things. The credit rating, once assigned, serves as the fundamental instrument for Shinhan Bank's credit risk management, and is applied to a wide range of credit risk management processes, including credit approval, credit limit management, loan pricing and computation of allowance for loan losses. Shinhan Bank has separate credit evaluation systems for retail customers, SOHO customers and corporate customers, which are further segmented and refined to meet Basel II requirements, which requirements have not changed under Basel III. See Item 5.A. Operating Results Critical Accounting Policies Impairment of Financial Assets Allowance for Loan Losses.

Retail Loans

Loan applications for retail loans are reviewed in accordance with Shinhan Bank's credit scoring system and the objective statistics models for secured and unsecured loans maintained and operated by Shinhan Bank's Retail Banking Division. Shinhan Bank's credit scoring system is an automated credit approval system used to evaluate loan applications and determine the appropriate pricing for the loan, and takes into account factors such as a borrower's personal information, transaction history with Shinhan Bank and other financial institutions and other relevant credit information. The applicant is assigned a score, which is used to determine (i) whether to approve the applicant's loan, (ii) the amount of loan to be granted, and (iii) the interest rates thereon. The applicant's score also determines whether the applicant is approved for credit, conditionally approved, subject to further assessment, or denied. If the applicant becomes subject to further assessment, the appropriate discretionary body, either at the branch level or at the headquarter level, makes a reassessment based on qualitative as well as quantitative factors, such as credit history, occupation and past relationship with Shinhan Bank.

For mortgage and home equity loans and loans secured by real estate, Shinhan Bank evaluates the value of the real estate offered as collateral using a proprietary database, which contains information about real estate values throughout Korea. In addition, Shinhan Bank uses up-to-date information provided by third parties regarding the real estate market and property values in Korea. While Shinhan Bank uses internal staff from the processing centers to appraise the value of the real estate collateral, Shinhan Bank also hires certified appraisers

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to review and co-sign the appraisal value of real estate collateral that have an appraisal value exceeding ₩3 billion, as initially determined by the processing centers. Shinhan Bank also reevaluates internally, on a summary basis, the appraisal value of collateral at least every year.

For loans secured by securities, deposits or other assets other than real estate, Shinhan Bank requires borrowers to observe specified collateral ratios in respect of secured obligations.

Corporate Loans

Shinhan Bank rates all of its corporate borrowers using internally developed credit evaluation systems. These systems consider a variety of criteria (quantitative, qualitative, financial and non-financial) in order to standardize credit decisions and focus on the quality of borrowers rather than the size of loans. The quantitative considerations include the borrower's financial and other data, while the qualitative considerations are based on the judgment of Shinhan Bank's credit officers as to the borrower's ability to repay. Financial considerations include financial variables and ratios based on customer's financial statements, such as return on assets and cash flow to total debt ratios, and non-financial considerations include, among other things, the industry to which the borrower's businesses belong, the borrower's competitive position in its industry, its operating and funding capabilities, the quality of its management and controlling stockholders (based in part on interviews with its officers and employees), technological capabilities and labor relations.

In addition, in order to enhance the accuracy of its internal credit reviews, Shinhan Bank also considers reports prepared by external credit rating services, such as Nice Information Service and Korea Enterprise Data, and monitors and improves the effectiveness of the credit risk-rating systems using a database that it updates continually with actual default records.

Based on the scores calculated under the credit rating system, which takes into account the evaluation criteria described above and the probability of default, Shinhan Bank assigns the borrower one of 23 grades (from the highest of AAA to the lowest of D3). Grades AA through B are further broken down into +, 0 or -. Grades AAA through B- are classified as normal, grade CCC precautionary, and grades CC through D3 non-performing. The credit risk-rating model is further differentiated by the size of the corporate borrower and the type of credit facilities.

Loan Approval Process

Loans are generally approved after evaluations and approvals by the relationship manager at the branch level as well as the committee of the applicable business unit at Shinhan Bank. The approval limit for retail loans is made based on Shinhan Bank's automated credit scoring system. In the case of large corporate loans, approval limits are also reviewed and approved by a Credit Officer at the headquarter level. Depending on the size and the importance of the loan, the approval process is further reviewed by the Credit Officer Committee or the Master Credit Officer Committee. If the loan is considered significant or the amount exceeds the discretion limit of the Master Credit Officer Committee, further evaluation is made by the Credit Review Committee, which is Shinhan Bank's highest decision-making body in relation to credit approval. The Credit Review Committee's evaluation and approval of loan limits vary depending on the credit ratings of the borrowers as determined by Shinhan Bank's internal credit rating system. For example, for borrowers with a credit rating of B-, the Credit Review Committee evaluates and approves unsecured loans in excess of ₩10 billion and secured loans in excess of ₩15 billion, whereas for borrowers with a credit rating of AAA, the Credit Review Committee evaluates and approves unsecured loans in excess of ₩40 billion and secured loans in excess of ₩90 billion. The Credit Review Committee holds at least two meetings a week to approve applications for large-sized loans whose principal amounts exceed prescribed levels set by it.

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The chart below summarizes the credit approval process of our banking operation. The Master Credit Officer and the Head of Business Division do not make individual decisions on loan approval, but are part of the decision-making process at the group level.

The reviewer at each level of the review process may in its discretion approve loans up to a maximum amount per loan assigned to such level. The discretionary loan approval limit for each level of the loan approval process takes into account the total amount of loans extended to the borrower, the credit level of the applicant based on credit review, the existence and value of collateral and the level of credit risk established by the credit rating system. The discretionary loan amount approval limit ranges from ₩15 million for unsecured retail loans with a credit rating of B-, which are subject to approvals by the retail branch manager, to ₩90 billion for secured loans with a credit rating of AAA, which are subject to approvals by the Master Credit Officer Committee. Any loans exceeding the maximum discretionary loan amount approval limit must be approved by the Credit Review Committee.

Credit Review and Monitoring

Shinhan Bank continually reviews and monitors credit risks primarily with respect to borrowers. In particular, Shinhan Bank's automated early warning system conducts daily examination for borrowers using over 206 financial and non-financial factors, and the branch manager and the credit officer must conduct periodic loan review and report to an independent Credit Review Department which analyzes in detail the results and adjusts credit ratings accordingly. Based on these reviews, Shinhan Bank adjusts a borrower's credit rating, credit limit and credit policies. In addition, the group credit rating of the borrower's group, if applicable, may be adjusted following a periodic review of the main debtor groups, mostly comprised of the largest Korean commercial conglomerates known as *chaebols*, as identified by the Governor of the Financial Supervisory Service based on their outstanding credit exposures, of which 60 were identified as such as of December 31, 2018. Shinhan Bank also continually reviews other factors, such as industry-specific conditions for the borrower's business and its domestic and overseas asset base and operations, in order to ensure that the assigned ratings are appropriate. The Credit Review Department provides credit review reports, independent of underwriting, to the Chief Risk Officer on a monthly basis.

The early warning system performs automatic daily checks for borrowers to whom Shinhan Bank has more than ₩1 billion of total exposure (which represents the total outstanding amount due from a borrower, net of collateral for deposit, installment savings, guarantees and import guarantee money) or ₩500 million of exception for credit exposure (which represents total exposure net of effective collateral). When the early warning systems detects a warning signal, such signal and other findings from the monitoring are reviewed by the Credit Review Department in the case of a borrower to whom Shinhan Bank has more than ₩2 billion of exposure, and by the branch manager and the Credit Officer in the case of a borrower to whom Shinhan Bank has ₩2 billion or less of exposure. In addition, Shinhan Bank carries out a timeless credit review of each borrower in accordance with changes in credit risk factors based on changes in the economic environment. The results of such credit review are continually reported to the Chief Risk Officer of Shinhan Bank.

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Depending on the nature of the signals detected by the early warning system, a borrower may be classified as worsening credit and become subject to evaluation for a possible downgrade in credit rating, or may be initially classified as showing early warning signs or become reinstated to the normal borrower status. For borrowers classified as showing early warning signs, the relevant branch manager gathers information and conducts a review of the borrower to determine whether the borrower should be classified as a worsening credit or whether to impose management improvement warnings or implement joint creditors management. If the borrower becomes non-performing, Shinhan Bank's collection department directly manages such borrower's account in order to maximize recovery rate, and conducts auctions, court proceedings, sale of assets or corporate restructuring as needed.

Pursuant to the foregoing credit review and monitoring procedures and in order to promptly prevent deterioration of loan qualities, Shinhan Bank classifies potentially problematic borrowers into (i) borrowers that show early warning signals, (ii) borrowers that require precaution, (iii) borrowers that require observation and (iv) normal borrowers, and treats them differentially accordingly.

In order to curtail delinquency among its corporate customers, Shinhan Bank takes primarily the following measures: (i) systematic monitoring of borrowers with sizable outstanding loans, (ii) heightened monitoring of borrowers with bad credit history and/or belonging to troubled industries and (iii) assignment of industry-specific lending caps, as adjusted for whether specific industries are particularly sensitive to general business cycles and/or are troubled at a given time.

Systematic monitoring of borrowers with sizable outstanding loans. Shinhan Bank currently applies a heightened monitoring system to corporate borrowers with outstanding loans (other than guaranteed loans and loans secured by specified types of collaterals such as deposits with us or letters of credit) in the aggregate amount of ₩1 billion or more and borrowers with net outstanding loans (i.e., the outstanding loan amount minus the fair value of collaterals (other than as aforesaid) securing such loans) in the aggregate amount of ₩500 million or more. Under this monitoring system, each such borrower is assigned one of the following ratings:

Normal borrower a borrower who is determined to have a low probability of insolvency with a credit rating above CCC (sub-borrower rating applicable);

Borrower that requires observation a borrower that carries some risk of affecting the corporate insolvency in the future and is subject to consistent observation to detect any change of such risk;

Borrower that requires precaution a borrower with a possibility of insolvency due to an increase in risk of default and therefore requires detailed inspection of the credit quality of such borrower and precaution in extending any further loans;

Borrower with early warning signs a borrower with a high possibility of insolvency; and

Problematic or reorganized borrower a borrower currently undergoing rehabilitation procedures, such as management improvement plans, workout or corporate recovery or showing no signs of recovery.

Shinhan Bank conducts systematic monitoring of the foregoing borrowers at intervals depending on the borrower's credit rating (for example, every 12 months for normal borrowers with a credit rating of AAA to A, every nine months for normal borrowers with a credit rating of A- to BBB+, every six months for a credit rating of BBB to B- and every three months for borrowers with a credit rating of CCC or below and borrowers not deemed to be normal). In addition, the loan reviewer may request more frequent monitoring if the borrower is showing signs of deteriorating credit quality. For borrowers with outstanding loan amounts of ₩2 billion or more, Shinhan Bank also monitors the revenues and earnings of such borrower on a quarterly basis within 10 weeks following the end of each quarter.

Heightened monitoring of borrowers with bad credit history and/or belonging to troubled industries. In addition to the systematic monitoring discussed above, Shinhan Bank also carries out additional monitoring for

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borrowers that, among others, (i) are rated as requiring observation, requiring precaution or with early warning signs as noted above, (ii) have prior history of delinquency or restructuring or (iii) have borrowings that are classified as substandard or below. Based on the heightened monitoring of these borrowers, Shinhan Bank adjusts contingency planning as to how the overall asset quality of a specific industry should change for each phase of the business cycle, how Shinhan Bank should limit or reduce its exposure to such borrowers, and how our group-wide delinquency and non-performing ratio would change, among other things.

Credit Risk Assessment and Control

In order to assess credit risk in a systematic manner, Shinhan Bank has developed and upgraded systems designed to quantify credit risk based on selection and monitoring of various statistics, including delinquency rate, non-performing loan ratio, expected loan loss and weighted average risk rating.

Shinhan Bank controls loan concentration by monitoring and managing loans at two levels: portfolio level and individual loan account level. In order to maintain portfolio-level credit risk at an appropriate level, Shinhan Bank manages its loans using value-at-risk (VaR) limits for the entire bank as well as for each of its business units. In order to prevent concentration of risk in a particular borrower or borrower class, Shinhan Bank also manages credit risk by borrower, industry, country and other detailed categories.

Shinhan Bank measures credit risk using internally accumulated data. Shinhan Bank measures expected and unexpected losses with respect to total assets monthly, which Shinhan Bank refers to when setting risk limits for, and allocating capital to, its business groups. Expected loss is calculated based on the probability of default, the loss given default, the exposure at default and the past bankruptcy rate and recovery rate, and Shinhan Bank provides allowance for loan losses accordingly. Shinhan Bank makes provisioning at a level which is the higher of the Financial Supervisory Service requirement or Shinhan Bank's internal calculation. Unexpected loss is predicted based on VaR, which is used to determine compliance with the aggregate credit risk limit for Shinhan Bank as well as the credit risk limit for the relevant department within Shinhan Bank. Shinhan Bank uses the AIRB method as proposed by the Basel Committee to compute VaR at the account-specific level as well as to measure risk adjusted performance.

Credit Risk Management of Shinhan Card

Major policies for Shinhan Card's credit risk management are determined by Shinhan Card's Risk Management Council, and Shinhan Card's Risk Management Committee is responsible for approving them. Shinhan Card's Risk Management Council is headed by the Chief Risk Officer, and also comprises of the heads of each business unit, supporting unit and relevant department at Shinhan Card. Shinhan Card's Risk Management Council convenes at least once every month and may also convene on an *ad hoc* basis as needed. Shinhan Card's Risk Management Committee is comprised of three Non-Standing Directors. Shinhan Card's Risk Management Committee convenes at least once every quarter and may also convene on an *ad hoc* basis as needed.

The risk of loss from default by the cardholders or credit card loan borrowers is Shinhan Card's greatest credit risk. Shinhan Card manages its credit risk based on the following principles:

achieve profit at a level corresponding to the level of risks involved;

improve asset quality and achieve an optimal mix of asset portfolios; and

closely monitor borrower's ability to repay the debt.

Credit Card Approval Process

Shinhan Card uses an automated credit scoring system to approve credit card applications or credit card authorizations. The credit scoring system is divided into two sub-systems: the behavior scoring system and the

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application scoring system. The behavior scoring system is based largely on the credit history of the cardholder or borrower, and the application scoring system is based largely on personal information of the applicant. For credit card applicants with whom we have an existing relationship, Shinhan Card's credit scoring system considers internally gathered information such as the ability to repay, total assets, the length of the existing relationship and the applicant's contribution to Shinhan Card's profitability. The credit scoring system also automatically conducts credit checks on all credit card applicants. Shinhan Card gathers information about the applicant's transaction history with financial institutions, including banks and credit card companies, from a number of third party credit reporting agencies including, among others, National Information & Credit Evaluation Inc. and Korea Credit Bureau. These credit checks reveal a list of the delinquent customers of all credit card issuers in Korea.

If a credit score assigned to an applicant is above the minimum threshold, the application is approved unless overridden based on other considerations such as delinquencies with other credit card companies. For a credit card application by a long-standing customer with a good credit history, Shinhan Card may, on a discretionary basis, approve the application notwithstanding the assigned credit score unless overridden by other considerations. All of these factors also serve as the basis for setting a credit limit for approved applications.

The following describes the process of how Shinhan Card sets credit limits for credit cards, cash advances and card loans:

Credit purchase and cash advance limits These limits are set based on the applicant's limit request and Shinhan Card's credit screening criteria. Unless a cardholder requests a reduction in the credit purchase and/or cash advance limit, Shinhan Card is required to provide prior notice to the cardholder for any reduction in such cardholder's limit. However, if the accountholder defaults or the cardholder's credit limit is reduced according to the terms of the card agreement, Shinhan Card may lower the credit limit before notifying the accountholder.

Card loan limit This limit is set monthly by Shinhan Card based on the cardholder's credit rating and transaction history. The card loan limit can be adjusted monthly based on the cardholder's credit standing without prior notification.

Monitoring

Shinhan Card continually monitors all cardholders and accounts using a behavior scoring system. The behavior scoring system predicts a cardholder's payment pattern by evaluating the cardholder's credit history, card usage and amounts, payment status and other relevant data. The behavior score is recalculated each month and is used to manage the accounts and approval of additional loans and other products to the cardholder. Shinhan Card also uses the scoring system to monitor its overall risk exposure and to modify its credit risk management strategy.

Loan Application Review and On-going Credit Review

When reviewing new applications and conducting an ongoing credit review for retail loans, installment purchase loans and personal leases, Shinhan Card uses criteria substantially similar to those used in the credit underwriting system and the credit review system for cardholders. For retail loans, installment purchase loans and personal leases to existing cardholders, Shinhan Card reviews their card usage history in addition to other factors such as their income, occupation and assets.

Fraud Loss Prevention

Shinhan Card seeks to minimize losses from the fraudulent use of credit cards issued by it. Shinhan Card focuses on preventing fraudulent uses and, following the occurrence of a fraudulent use, makes investigations in order to make the responsible party bear the losses. Misuses of lost credit cards account for a substantial majority

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of Shinhan Card's fraud-related losses. Through its fraud loss prevention system, Shinhan Card seeks to detect, on a real-time basis, transactions that are unusual or inconsistent with prior usage history and calls are made to the relevant cardholders to confirm their purchases. A team at Shinhan Card dedicated to investigating fraud losses also examines whether the cardholder was at fault by, for example, not reporting a lost card or failing to endorse the card, or whether the relevant merchant was negligent in checking the identity of the user. Fault may also lie with delivery companies that fail to deliver credit cards to the relevant applicant. In such instances, Shinhan Card attempts to recover fraud losses from the responsible party. To prevent misuse of a card as well as to manage credit risk, Shinhan Card's information technology system will automatically suspend the use of a card (i) when, as a result of ongoing monitoring, fraudulent use or loss of the card is suspected based on the account holder's credit score, or (ii) at the request of the account holder.

Approximately 94% of Shinhan Card's cardholders consent to Shinhan Card's accessing their travel records to detect any misuse of credit cards while they are traveling abroad. Shinhan Card also offers cardholders additional fraud protection through a fee-based texting service. At the cardholder's option, Shinhan Card notifies the cardholder of any credit card activity in his or her account by sending a text message to his or her mobile phone. This notification service allows customers to quickly and easily identify any fraudulent use of their credit cards.

Credit Risk Management of Shinhan Investment

In accordance with the guidelines of the Financial Supervisory Service, Shinhan Investment assesses its credit risks (including through VaR analyses) and allocates the maximum limit for the credit amount at risk by department. Shinhan Investment also assesses the counterparty risks in all credit-related transactions, such as loans, acquisition financings and derivative transactions and takes corresponding risk management measures. In assessing the credit risk of a corporate counterparty, Shinhan Investment considers such counterparty's corporate credit rating obtained from Shinhan Group Corporate Credit Rating System. Through its risk management system, Shinhan Investment also closely monitors credit risk exposures by counterparty, industry, conglomerates, credit ratings and country. Shinhan Investment conducts credit risk stress tests on a daily basis based on probability of default and also conducts more advanced stress tests from time to time, the results of which are then reported to its management as well as the Group Chief Risk Officer to support group-wide credit risk management.

Credit Risk Management of Shinhan Life Insurance

Shinhan Life Insurance also assesses credit risks for all of its credit-related transactions, including provision of loans and acquisitions of financial instruments. Shinhan Life Insurance conducts additional risk reviews for new types of investments and financial instruments, such as those denominated in currencies it previously did not deal with. In assessing the credit risk of corporate customers, Shinhan Life Insurance considers such corporation's credit rating obtained from Shinhan Group Corporate Credit Rating System. Through its risk management system Shinhan Life Insurance conducts credit risk monitoring based on the credit history of debtors. Furthermore, in the retail business, Shinhan Life Insurance operates its own credit-scoring system to assess credit risk and update customers' behavior scores.

Market Risk Management

Market risk is the risk of loss generated by fluctuations in market prices such as interest rates, foreign exchange rates and equity prices. The principal market risks to which we are exposed are interest rate risk and, to a lesser extent, foreign exchange and equity price risk. These risks stem from our trading and non-trading activities relating to financial instruments such as loans, deposits, securities and financial derivatives. We divide market risk into risks arising from trading activities and risks arising from non-trading activities.

Our market risks arise primarily from Shinhan Bank, and to a lesser extent, Shinhan Investment, our securities trading and brokerage subsidiary, which faces market risk relating to its trading activities.

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Shinhan Bank's Risk Management Committee establishes overall market risk management principles for both the trading and non-trading activities of Shinhan Bank. Based on these principles, the Risk Policy Committee acts as the executive decision-making body in relation to Shinhan Bank's market risks in terms of setting its risk management policies and risk limits in relation to market risks and assets and controlling market risks arising from trading and non-trading activities of Shinhan Bank. The Risk Policy Committee consists of deputy presidents in charge of Shinhan Bank's seven business groups and Shinhan Bank's Chief Risk Officer and the Chief Financial Officer. At least on a monthly basis, the Risk Policy Committee reviews and approves reports relating to, among others, the position and VaR with respect to Shinhan Bank's trading activities and the position, VaR, duration gap and market value analysis and net interest income simulation with respect to its non-trading activities. In addition, Shinhan Bank's Risk Engineering Department comprehensively manages market risks on an independent basis from Shinhan Bank's operating departments, and functions as the middle office of Shinhan Bank. Shinhan Bank measures market risk with respect to all assets and liabilities in bank accounts and trust accounts in accordance with the regulations promulgated by the Financial Services Commission.

Shinhan Investment manages its market risk based on its overall risk limit established by its risk management committee as well as the risk limits and detailed risk management guidelines for each product and department established by its Risk Management Working Committee. Shinhan Investment's Risk Management Working Committee is the executive decision-making body for managing market risks related to Shinhan Investment, and determines, among other things, Shinhan Investment's overall market risk management policies and strategies, and assesses and approves trading activities and limits. In addition, Shinhan Investment's Risk Management Department manages various market risk limits and monitors operating conditions on an independent basis from Shinhan Investment's operating departments. Shinhan Investment assesses the adequacy of these limits at least annually. In addition, Shinhan Investment assesses the market risks of its trading assets. The assessment procedure is based on the standard procedures set by the Financial Supervisory Service as well as an internally developed model. Shinhan Investment assesses the risk amount and VaR, and manages the risk by setting a risk limit per sector as well as a VaR limit.

Shinhan Life Insurance manages its market risk based on its overall risk limit established by its risk management committee. Shinhan Life Insurance manages market risk in regard to assets that are subject to trading activities and foreign exchange positions. Shinhan Life Insurance assesses the market risk amount and the ten-day VaR, a procedure based on the delta-normal method, and manages market risk by setting a ten-day VaR limit. Shinhan Life Insurance assessed the adequacy of these limits at least annually and implements back tests on market risk determinations by comparing daily profit and loss against one-day VaR in 2017.

Shinhan Card does not have any assets with significant exposure to market risks and therefore does not maintain a risk management policy with respect to market risks.

We use financial information prepared on a separate basis according to IFRS for the market risk management of our subsidiaries and, unless otherwise specified herein, financial information in this annual report presented for quantitative market risk disclosure relating to our subsidiaries have been prepared in accordance with IFRS on a separate basis.

Market Risk Exposure from Trading Activities

Shinhan Bank's trading activities principally consist of:

trading activities to realize short-term profits from trading in the equity and debt securities markets and the foreign currency markets based on Shinhan Bank's short-term forecast of changes in market situation and customer demand, for its own account as well as for the trust accounts of Shinhan Bank's customers; and

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trading activities primarily to realize profits from arbitrage transactions involving derivatives such as swaps, forwards, futures and options, and, to a lesser extent, to sell derivative products to Shinhan Bank's customers and to cover market risk associated with those trading activities.

Shinhan Investment's trading activities principally consist of trading for customers and for proprietary accounts equity and debt securities and derivatives based on stock prices, stock indexes, interest rates, foreign currency exchange rates and commodity prices.

As a result of these trading activities, Shinhan Bank is exposed principally to interest rate risk, foreign currency exchange rate risk and equity risk, and Shinhan Investment is exposed principally to equity risk and interest rate risk.

Interest Rate Risk

Shinhan Bank's exposure to interest rate risk arises primarily from Won-denominated debt securities, directly held or indirectly held through beneficiary certificates, and, to a lesser extent, from interest rate derivatives. Shinhan Bank's exposure to interest rate risk arising from foreign currency-denominated trading debt securities is minimal since its net position in those securities is not significant. As Shinhan Bank's trading accounts are marked-to-market daily, it manages the interest rate risk related to its trading accounts using VaR, a market value-based tool.

Shinhan Investment's interest rate risk arises primarily from management of its interest rate-sensitive asset portfolio, which mainly consists of debt securities, interest rate swaps and government bond futures, and the level of such risk exposure depends largely on the variance between the interest rate movement assumptions built into the asset portfolio and the actual interest rate movements and the spread between a derivative product and its underlying assets. Shinhan Investment quantifies and manages the interest rate-related exposure by daily conducting VaR and stress tests on a marked-to-market basis.

Foreign Currency Exchange Rate Risk

Shinhan Bank's exposure to foreign currency exchange rate risk mainly relates to its assets and liabilities, including derivatives such as foreign currency forwards and futures and currency swaps, which are denominated in currencies other than the Won. Shinhan Bank manages foreign currency exchange rate risk, including the corresponding risks faced by its overseas branches, on a consolidated basis by covering all of its foreign exchange spot and forward positions in both trading and non-trading accounts.

Shinhan Bank's net foreign currency open position represents the difference between its foreign currency assets and liabilities as offset against forward foreign currency positions, and is Shinhan Bank's principal exposure to foreign currency exchange rate risk. The Risk Policy Committee oversees Shinhan Bank's foreign currency exposure for both trading and non-trading activities by establishing limits for the net foreign currency open position, loss limits and VaR limits. Shinhan Bank centrally monitors and manages its foreign exchange positions through its Financial Engineering Center. Dealers in the Financial Engineering Center manage Shinhan Bank's consolidated position within preset limits through spot trading, forward contracts, currency options, futures and swaps and foreign currency swaps. Shinhan Bank sets a limit for net open positions by currency. The limits for currencies other than the U.S. Dollar, Japanese Yen, Euro and Chinese Yuan are set in a conservative manner in order to minimize trading in such currencies.

Shinhan Investment faces foreign currency exchange rate risk in relation to the following product offerings: currency forwards, currency swaps and currency futures. Shinhan Investment centrally monitors and manages transactions involving such products through its Fixed Income, Currency & Commodities Departments. Shinhan Investment's Risk Management Working Committee, which is delegated with the authority to approve foreign currency-related transactions and limits on the related open positions, manages the related foreign exchange risk

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by setting nominal limits on the amounts of foreign exchange-related products and monitoring compliance with such limits on a daily basis. As of December 31, 2018, Shinhan Investment's net open position related to foreign currency-related products was US\$845.4 million, and its open positions related to the sale of Won-U.S. Dollar forwards and Won-U.S. Dollar futures were US\$331.2 million and US\$52 million, respectively.

Shinhan Capital manages its foreign exchange risk resulting from the difference in its foreign currency assets and liabilities through derivative transactions such as forwards or swaps and maintains its net exposure at US\$11.3 million.

The net open foreign currency positions held by our other subsidiaries are insignificant.

The following table shows Shinhan Bank's net foreign currency open positions as of December 31, 2016, 2017 and 2018. Positive amounts represent long exposures and negative amounts represent short exposures.

Currency	As of December 31,		
	2016	2017	2018
	(In millions of US\$)		
U.S. Dollars	\$ (125.0)	\$ 47.3	\$ 38.9
Japanese Yen	(9.2)	(3.9)	(9.6)
Euro	(4.6)	3.4	0.9
Others	886.4	1,113.9	1,104.1
Total	\$ 747.6	\$ 1,160.8	\$ 1,134.3

Equity Risk

Shinhan Bank's equity risk related to trading activities mainly involves trading equity portfolios of Korean companies and Korea Stock Price Index futures and options. The trading equity portfolio consists of stocks listed on the KRX KOSPI Market or the KRX KOSDAQ Market of the Korea Exchange and nearest-month or second nearest-month futures contracts under strict limits on diversification as well as limits on positions. Shinhan Bank maintains strict scrutiny of these activities in light of the volatility in the Korean stock market and closely monitors the loss limits and the observance thereof. Although Shinhan Bank holds a substantially smaller amount of equity securities than debt securities in its trading accounts, the VaR of trading account equity risk is generally higher than that of trading account interest rate risk due to high volatility in the value of equity securities. As of December 31, 2016, 2017 and 2018, Shinhan Bank held ₩192.9 billion, ₩219.0 billion and ₩184.2 billion respectively, of equity securities in its trading accounts (including the trust accounts).

Shinhan Investment's equity risk related to trading activities also mainly involves the trading of equity portfolio of Korean companies and Korea Stock Price Index futures and options. As of December 31, 2016, 2017 and 2018, the total amount of equity securities at risk held by Shinhan Investment was ₩36.7 billion, ₩22.8 billion and ₩31.3 billion, respectively.

Equity positions held by our other subsidiaries are insignificant.

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The following table presents an overview of market risk, measured by VaR, from trading activities of Shinhan Bank and Shinhan Investment, respectively, as of and for the year ended December 31, 2018. For market risk management purposes, Shinhan Bank includes in the computation of total VaR its trading portfolio in bank accounts and assets in trust accounts, in each case, for which it guarantees principal or fixed return in accordance with the Financial Services Commission regulations.

	Trading Portfolio VaR for the Year 2018			
	Average	Minimum	Maximum	As of December 31, 2018
	(In billions of Won)			
Shinhan Bank:⁽¹⁾				
Interest rate	₩ 22.6	₩ 16.2	₩ 29.8	₩ 18.8
Foreign exchange ⁽²⁾	39.3	34.1	45.7	34.3
Equities	12.1	2.0	25.7	22.2
Option volatility ⁽³⁾	0.1	0.03	0.6	0.3
Commodity	0.0	0.0	0.0	0.0
Less: portfolio diversification ⁽⁴⁾	(30.1)	(14.3)	(44.3)	(21.3)
Total VaR⁽⁵⁾	₩ 44.0	₩ 38.0	₩ 57.5	₩ 54.3
Shinhan Investment:⁽¹⁾				
Interest rate	₩ 7.6	₩ 3.7	₩ 14.3	₩ 7.3
Equities	64.1	6.2	103.9	43.8
Foreign exchange	6.0	0.2	13.8	0.2
Option volatility ⁽³⁾	9.2	2.2	31.8	31.8
Less: portfolio diversification ⁽⁴⁾	(12.0)	(1.0)	(35.5)	(1.4)
Total VaR	₩ 74.8	₩ 11.2	₩ 128.3	₩ 81.7

Notes:

- (1) Shinhan Bank and Shinhan Investment's ten-day VaR is based on a 99.9% confidence level.
- (2) Includes both trading and non-trading accounts as Shinhan Bank and Shinhan Investment manage foreign exchange risk on a total position basis.
- (3) Volatility implied from the option price using the Black-Scholes or a similar model.
- (4) Calculation of portfolio diversification effects is conducted on different days' scenarios for different risk components. Total VaRs are less than the simple sum of the risk component VaRs due to offsets resulting from portfolio diversification.
- (5) Includes trading portfolios in Shinhan Bank's bank accounts and assets in trust accounts, in each case, for which it guarantees principal or fixed return.

Shinhan Bank generally manages its market risk from the trading activities of its portfolios on an aggregated basis. To control its trading portfolio market risk, Shinhan Bank uses position limits, VaR limits, stop loss limits, Greek limits and stressed loss limits. In addition, it establishes separate limits for investment securities. Shinhan Bank maintains risk control and management guidelines for derivative trading based on the regulations and guidelines promulgated by the Financial Services Commission, and measures market risk from trading activities to monitor and control the risk of its operating divisions and teams that perform trading activities. Shinhan Bank manages VaR measurements and limits on a daily basis based on automatic interfacing of its trading positions into its market risk measurement system. In addition, Shinhan Bank presets limits on loss, sensitivity, investment and stress for its trading departments and desks and monitors such limits and observance thereof on a daily basis.

Value-at-risk analysis. Shinhan Bank uses ten-day and one-day VaRs to measure its market risk. Shinhan Bank calculates (i) ten-day VaRs on a daily basis based on data for the previous 12 months for the holding

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periods of ten days and (ii) one-day VaRs on a daily basis based on data for the previous 12 months for the holding periods of one day. A ten-day VaR and one-day VaR are statistically estimated maximum amounts of loss that can occur for ten days and one day, respectively, under normal market conditions. If a VaR is measured using a 99% confidence level, the actual amount of loss may exceed the expected VaR, on average, once out of every 100 business days, while if a VaR is measured using a 99.9% confidence level, the actual amount of loss may exceed the expected VaR, on average, once out of 1,000 business days.

Shinhan Bank currently uses the ten-day 99% confidence level-based VaR and stressed VaR for purposes of calculating the regulatory capital used in reporting to the Financial Supervisory Service. Stressed VaR reflects the potential significant loss in the current trading portfolio based on scenarios derived from a crisis simulation during the preceding 12 months. Shinhan Bank also uses the more conservative ten-day 99.9% confidence level-based VaR for purposes of calculating its economic capital used for internal management purposes, which is a concept used in determining the amount of Shinhan Bank's requisite capital in light of the market risk. In addition, Shinhan Bank uses the one-day 99% confidence level-based VaR on a supplemental basis for purposes of setting and managing risk limits specific to each desk or team in its operating units as well as for back-testing purposes. For Shinhan Bank, the amount of losses (either actual or virtual) exceeded the one-day 99% confidence level-based VaR amount once in 2016 and three times in 2017, and there were no such instances in 2018. Most recently, losses exceeded the one-day 99% confidence level-based VaR amount by 6.2% on October 10, 2017. The VaR exceptions referred to above were all due to the amount of virtual losses exceeding the VaR amount. Virtual losses represent the potential changes in the value of a portfolio when simulating the same portfolio with market variables of the next trading day.

Shinhan Investment currently uses the same ten-day 99.9% confidence level-based historical VaR for purposes of calculating its economic capital used for internal management purposes, although such model is not subject to regulatory review or reporting requirements. In addition, Shinhan Investment applies this VaR as a risk limit for the entire company as well as individual departments and products, and the adequacy of such VaR is reviewed by way of daily back-testing. When computing VaR, Shinhan Investment does not assume any particular probability distribution and calculates it through a simulation of the full valuation method based on changes of market variables such as stock prices, interest rates and foreign exchange rates in the past one year. For Shinhan Investment, the amount of losses (either actual or virtual) exceeded the one-day 99% confidence level-based VaR amount once in 2016 and two times in 2017, and there were no such instances in 2018. The VaR exceptions referred to above were all due to the amount of virtual losses exceeding the VaR amount. Most recently, losses exceeded the one-day 99% confidence level-based VaR amount by 175% on May 19, 2017.

Value-at-risk is a commonly used market risk management technique. However, VaR models have the following shortcomings:

VaR estimates possible losses over a certain period at a particular confidence level using past market movement data. Past market movement, however, is not necessarily a reliable indicator of future events, particularly those that are extreme in nature;

VaR may underestimate the probability of extreme market movements;

Shinhan Bank's VaR models assume that a holding period of generally one to ten days is sufficient prior to liquidating the underlying positions, but such assumption regarding the length of the holding period may

actually prove to be inadequate;

The 99.9% confidence level does not take into account or provide indication of any losses that might occur beyond this confidence level; and

VaR does not capture all complex effects of various risk factors on the value of positions and portfolios and could underestimate potential losses.

Currently, Shinhan Bank and Shinhan Investment conduct back-testing of VaR results against actual outcomes on a daily basis.

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Shinhan Bank operates an integrated market risk management system which manages Shinhan Bank's Won-denominated and foreign-denominated accounts. This system uses historical simulation to measure both linear risks arising from products such as equity and debt securities and nonlinear risks arising from other products including options. We believe that this system enables Shinhan Bank to generate elaborate and consistent VaR information and to perform sensitivity analysis and back testing in order to check the validity of the models on a daily basis. Shinhan Life Insurance also measures market risks based on a VaR analysis.

Stress test. In addition to VaR, Shinhan Bank performs stress tests to measure market risk. As VaR assumes normal market situations, Shinhan Bank assesses its market risk exposure to unlikely abnormal market fluctuations through the stress test. Stress test is a valuable supplement to VaR since VaR does not cover potential loss if the market moves in a manner which is outside Shinhan Bank's normal expectations. Stress test projects the anticipated change in value of holding positions under certain scenarios assuming that no action is taken during a stress event to change the risk profile of a portfolio.

Shinhan Bank uses seven relatively simple but fundamental scenarios for stress test by taking into account four market risk components: foreign currency exchange rates, stock prices, and Won-denominated interest rates and foreign currency-denominated interest rates. For the worst case scenario, Shinhan Bank assumes instantaneous and simultaneous movements in four market risk components: appreciation of Won by 20%, a decrease in Korea Exchange Composite Index by 30% and increases in Won-denominated and U.S. Dollar-denominated interest rates by 200 basis points each, respectively. Under this worst-case scenario, the market value of Shinhan Bank's trading portfolio would have declined by ₩337 billion as of December 31, 2018. Shinhan Bank performs stress test on a daily basis and reports the results to its Risk Policy Committee on a monthly basis and its Risk Management Committee on a quarterly basis.

Shinhan Investment uses nine scenarios for stress tests by taking into account four market risk components: stock prices (both in terms of stock market indices and β -based individual stock prices), interest rates for Won-denominated loans, foreign currency exchange rates and historical volatility. As of December 31, 2018, under the worst case scenario assuming a 1% point increase in the three-year government bond yield, the market value of Shinhan Investment's trading portfolio would have fluctuated by ₩32.1 billion for one day.

Shinhan Bank sets limits on stress testing for its overall operations. Shinhan Investment sets limits on stress testing for its overall operations as well as at its department level. Although Shinhan Life Insurance does not set any limits on stress testing, it monitors the impact of market turmoil or other abnormalities. In the case of Shinhan Bank, Shinhan Investment and Shinhan Life Insurance, if the potential impact is large, their respective head of Risk Management will notify such impact and may request a portfolio restructuring or other proper action.

Hedging and Derivative Market Risk

The principal objective of our group-wide hedging strategy is to manage market risk within established limits. We use derivative instruments to hedge our market risk as well as to make profits by trading derivative products within preset risk limits. Our derivative trading includes interest rate and cross-currency swaps, foreign currency forwards and futures, stock index and interest rate futures, and stock index and currency options.

While we use derivatives for hedging purposes, derivative transactions by nature involve market risk since we take trading positions for the purpose of making profits. These activities consist primarily of the following:

arbitrage transactions to make profits from short-term discrepancies between the spot and derivative markets or within the derivative markets;

sales of tailor-made derivative products that meet various needs of our corporate customers, principally of Shinhan Bank and Shinhan Investment, and related transactions to reduce their exposure resulting from those sales;

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taking positions in limited cases when we expect short-swing profits based on our market forecasts; and

trading to hedge our interest rate and foreign currency risk exposure as described above.

In accordance with accounting requirements under IFRS 9, *Financial Instruments*, which has replaced IAS 39, *Financial Instruments: Recognition and Measurement* since January 1, 2018, we have implemented internal processes which include a number of key controls designed to ensure that fair value is measured appropriately, particularly where a fair value model is internally developed and used to price a significant product.

Shinhan Bank assesses the adequacy of the fair market value of a new product derived from its internal model prior to the launch of such product. The assessment process involves the following:

computation of an internal dealing system market value (based on assessment by the quantitative analysis team of the adequacy of the formula and the model used to compute the market value as derived from the dealing system);

computation of the market value as obtained from an outside credit evaluation company; and

following comparison of the market value derived from an internal dealing system to that obtained from outside credit evaluation companies, determination as to whether to use the internally developed market value based on inter-departmental consensus.

The dealing system market value, which is used officially by Shinhan Bank after undergoing the assessment process above, does not undergo a sampling process that confirms the value based on review of individual transactions, but is subject to an additional assessment procedure of comparing such value against the profits derived from the dealing systems based on the deal portfolio sensitivity.

Shinhan Investment follows an internal policy as set by its Fair Value Evaluation Committee for computing and assessing the adequacy of fair value of all of its over-the-counter derivative products. Shinhan Investment computes the fair value based on an internal model and internal risk management systems and assesses the adequacy of the fair value through cross-departmental checks as well as comparison against fair values obtained from outside credit evaluation companies.

See Item 5.A. Operating Results Critical Accounting Policies and Note 3 of the notes to our consolidated financial statements included in this annual report.

Market risk from derivatives is not significant since derivative trading activities of Shinhan Bank and Shinhan Investment are primarily driven by arbitrage and customer deals with highly limited open trading positions. Market risk from derivatives is also not significant for Shinhan Life Insurance as its derivative trading activities are limited to those within preset risk limits and are subject to heavy regulations imposed on the insurance industry. Market risk from derivatives is not significant for our other subsidiaries since the amount of such positions by our other subsidiaries is insignificant.

Market Risk Management for Non-trading Activities

Interest Rate Risk

Interest rate risk represents Shinhan Bank's principal market risk from non-trading activities. Interest rate risk is the risk of loss resulting from interest rate fluctuations that adversely affect the financial condition and results of operations of Shinhan Bank. Shinhan Bank's interest rate risk primarily relates to the differences between the timing of rate changes for interest-earning assets and that for interest-bearing liabilities.

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Interest rate risk affects Shinhan Bank's earnings and the economic value of Shinhan Bank's net assets as follows:

Earnings: interest rate fluctuations have an effect on Shinhan Bank's net interest income by affecting its interest-sensitive operating income and expenses.

Economic value of net assets: interest rate fluctuations influence Shinhan Bank's net worth by affecting the present value of cash flows from the assets, liabilities and other transactions of Shinhan Bank.

Accordingly, Shinhan Bank measures and manages interest rate risk for non-trading activities by taking into account the effects of interest rate changes on both its income and net asset value. Shinhan Bank measures and manages interest rate risk on a daily and monthly basis with respect to all interest-earning assets and interest-bearing liabilities in Shinhan Bank's bank accounts (including derivatives denominated in Won which are principally interest rate swaps entered into for the purpose of hedging) and in trust accounts, except that Shinhan Bank measures VaRs on a monthly basis. Most of Shinhan Bank's interest-earning assets and interest-bearing liabilities are denominated in Won.

Interest Rate Risk Management

The principal objectives of Shinhan Bank's interest rate risk management are to generate stable net interest income and to protect Shinhan Bank's net asset value against interest rate fluctuations. Through its asset and liability management system, Shinhan Bank monitors and manages its interest rate risk based on various analytical measures such as interest rate gap, duration gap and net present value and net interest income simulations, and monitors on a monthly basis its interest rate VaR limits, interest rate earnings at risk (EaR) limits and interest rate gap ratio limits. Shinhan Bank measures its interest rate VaR and interest rate EaR based on simulated estimation of the maximum decrease in net asset value and net interest income in a one-year period based on various scenario analyses of historical interest rates. The Risk Policy Committee sets the interest rate risk limits for Shinhan Bank's Won-denominated and foreign currency-denominated non-trading accounts and trust accounts, and the Risk Management Committee sets Shinhan Bank's overall interest rate risk limit, in both cases, at least annually. The Risk Management Department monitors Shinhan Bank's compliance with these limits and reports the monitoring results to the Risk Policy Committee on a monthly basis and the Risk Management Committee on a quarterly basis. Shinhan Bank uses interest rate swaps to control its interest rate exposure limits.

Interest rate VaR represents the maximum anticipated loss in a net present value calculation (computed as the present value of interest-earning assets minus the present value of interest-bearing liabilities), whereas interest rate EaR represents the maximum anticipated loss in a net earnings calculation (computed as interest income minus interest expenses) for the immediately following one-year period, in each case, as a result of negative movements in interest rates. Therefore, interest rate VaR is a more expansive concept than interest rate EaR in that the former covers all interest-earning assets and all interest-bearing liabilities, whereas the latter covers only those interest-earning assets and interest-bearing liabilities that are exposed to interest rate volatility for a one-year period.

Hence, for interest rate VaRs, the duration gap (namely, the weighted average duration of all interest-earning assets minus the weighted average duration of all interest-bearing liabilities) can be a more critical factor than the relative sizes of the relevant assets and liabilities in influencing interest rate VaRs. In comparison, for interest rate EaRs, the relative sizes of the relevant assets and liabilities in the form of the one year or less interest rate gap (namely, the volume of interest-earning assets with maturities of less than one year minus the volume of interest-bearing liabilities with maturities of less than one year) is the most critical factor in influencing the interest rate EaRs.

The interest rate VaR limits are set as the difference between (i) the average of the anticipated loss in a net present value calculation (computed based on the average of 2,000 scenarios) and (ii) the standard deviation at the 99.9% confidence level.

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The interest rate EaR limits are set at the maximum decrease in net interest income by (i) assuming that the estimated interest rate gap will expand to the maximum level of manageable (tolerable) situations and (ii) applying the interest rate shock scenario to the annual volatility of interest rates using past 10-year market interest rates.

On a monthly basis, we monitor whether the non-trading positions for interest rate VaR and EaR exceed their respective limits as described above.

Interest rate VaR cannot be meaningfully compared to the ten-day 99% confidence level based VaR (market risk VaR) for managing trading risk principally because (i) the underlying assets are different (namely, non-trading interest-bearing assets as well as liabilities in the case of the interest rate VaR, compared to trading assets only in the case of the market risk VaR), and (ii) interest rate VaR is sensitive to interest rate movements only while the market risk VaR is sensitive to interest rate movements as well as other factors such as foreign currency exchange rates, stock market prices and option volatility.

Even if comparison were to be made between the interest rate VaR and the interest rate portion only of the market risk VaR, we do not believe such comparison would be meaningful since the interest rate VaR examines the impact of interest rate movements on both assets and liabilities (which will likely have offsetting effects), whereas the interest rate portion of the market VaR examines the impact of interest rate movements on assets only.

Shinhan Bank uses various analytical methodologies to measure and manage its interest rate risk for non-trading activities on a daily and monthly basis, including the following analyses:

Interest rate gap analysis;

Duration gap analysis;

Market value analysis; and

Net interest income simulation analysis.

Interest Rate Gap Analysis

Shinhan Bank performs an interest gap analysis to measure the difference between the amount of interest-earning assets and that of interest-bearing liabilities at each maturity and re-pricing date for specific time intervals by preparing interest rate gap tables in which Shinhan Bank's interest-earning assets and interest-bearing liabilities are allocated to the applicable time intervals based on the expected cash flows and re-pricing dates.

On a daily basis, Shinhan Bank performs interest rate gap analysis for Won- and foreign currency-denominated assets and liabilities in its bank and trust accounts. Shinhan Bank's gap analysis includes Won-denominated derivatives (which are interest rate swaps for the purpose of hedging) and foreign currency-denominated derivatives (which are currency swaps for the purpose of hedging), which are managed centrally at the Financial Engineering Center. Through the interest rate gap analysis that measures interest rate sensitivity gaps, cumulative gaps and gap ratios, Shinhan Bank assesses its exposure to future interest risk fluctuations. For interest rate gap analysis, Shinhan Bank assumes and uses the following maturities for different types of assets and liabilities:

With respect to the maturities and re-pricing dates of Shinhan Bank's assets, Shinhan Bank assumes that the maturity of Shinhan Bank's prime rate-linked loans is the same as that of its fixed-rate loans. Shinhan Bank excludes equity securities from interest-earning assets.

With respect to the maturities and re-pricing of Shinhan Bank's liabilities, Shinhan Bank assumes that money market deposit accounts and non-core demand deposits under the Financial Services

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Commission guidelines have a maturity of one month or less for both Won-denominated accounts and foreign currency-denominated accounts.

With respect to core demand deposits under the Financial Services Commission guidelines, Shinhan Bank assumes that they have maturities of eight different intervals ranging from one month to five years. The following tables show Shinhan Bank's interest rate gaps as of December 31, 2018 for (i) Won-denominated non-trading bank accounts, including derivatives entered into for the purpose of hedging and (ii) foreign currency-denominated non-trading bank accounts, including derivatives entered into for the purpose of hedging.

Won-denominated non-trading bank accounts⁽¹⁾

	As of December 31, 2018						Total
	0-3	3-6	6-12	1-2	2-3	Over 3	
	Months	Months	Months	Years	Years	Years	
	(In billions of Won, except percentages)						
Interest-earning assets	₩ 121,433	₩ 57,702	₩ 28,158	₩ 23,618	₩ 16,779	₩ 19,477	₩ 267,167
Fixed rates	18,277	12,900	17,804	15,869	10,519	10,966	86,334
Floating rates	101,816	43,723	8,264	7,749	6,229	8,502	176,283
Interest rate swaps	1,340	1,080	2,090	0	30	10	4,550
Interest-bearing liabilities	₩ 103,635	₩ 43,398	₩ 65,910	₩ 20,402	₩ 13,141	₩ 24,386	₩ 270,873
Fixed liabilities	44,625	32,092	54,261	10,205	2,844	3,298	147,326
Floating liabilities	54,460	11,306	11,649	10,197	10,297	21,088	118,997
Interest rate swaps	4,550	0	0	0	0	0	4,550
Sensitivity gap	17,798	14,304	(37,752)	3,215	3,638	(4,909)	(3,706)
Cumulative gap	17,798	32,102	(5,650)	(2,435)	1,203	(3,706)	(3,706)
% of total assets	6.66%	12.02%	(2.11)%	(0.91)%	0.45%	(1.39)%	(1.39)%

Foreign currency-denominated non-trading bank accounts⁽¹⁾

	As of December 31, 2018					Total
	0-3	3-6	6-12	1-3	Over 3	
	Months	Months	Months	Years	Years	
	(In millions of US\$, except percentages)					
Interest-earning assets	\$ 23,491	\$ 7,333	\$ 2,677	\$ 3,669	\$ 4,676	\$ 41,847
Interest-bearing liabilities	21,750	4,312	4,869	6,554	5,715	43,200
Sensitivity gap	1,741	3,021	(2,191)	(2,886)	(1,038)	(1,354)
Cumulative gap	1,741	4,762	2,570	(315)	(1,354)	(1,354)

% of total assets	4.16%	11.38%	6.14%	(0.75)%	(3.23)%	(3.23)%
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Note:

(1) Includes merchant banking accounts.

Duration Gap Analysis

Shinhan Bank performs a duration gap analysis to measure the differential effects of interest rate risk on the market value of its assets and liabilities by examining the difference between the durations of Shinhan Bank's interest-earning assets and those of its interest-bearing liabilities, which durations represent their respective weighted average maturities calculated based on their respective discounted cash flows using applicable yield curves. These measurements are done on a daily basis and for each operating department, account, product and currency, the respective durations of interest-earning assets and interest-bearing liabilities.

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The following tables show duration gaps and market values of Shinhan Bank's Won-denominated interest-earning assets and interest-bearing liabilities in its non-trading accounts as of December 31, 2018 and changes in these market values when interest rate increases by one percentage point.

Duration as of December 31, 2018 (for non-trading Won-denominated bank accounts⁽¹⁾)

	Duration as of December 31, 2018 (In months)
Interest-earning assets	10.29
Interest-bearing liabilities	10.83
Gap	(0.54)

Note:

(1) Includes merchant banking accounts and derivatives for the purpose of hedging.

Market Value Analysis

Shinhan Bank performs a market value analysis to measure changes in the market value of Shinhan Bank's interest-earning assets compared to that of its interest-bearing liabilities based on the assumption of parallel shifts in interest rates. These measurements are done on a monthly basis.

Market Value as of December 31, 2018 (for non-trading Won-denominated bank accounts⁽¹⁾)

	Market Value as of December 31, 2018		
	Actual	1% Point Increase	Changes
	(In billions of Won)		
Interest-earning assets	₩ 282,971	₩ 280,706	₩ (2,265)
Interest-bearing liabilities	275,808	273,468	(2,340)
Gap	7,163	7,238	75

Note:

(1) Includes merchant banking accounts and derivatives for the purpose of hedging.

Net Interest Income Simulation

Shinhan Bank performs net interest income simulation to measure the effects of the change in interest rate on its results of operations. Such simulation uses the deterministic analysis methodology to measure the estimated changes in Shinhan Bank's annual net interest income (interest income less interest expenses) under the current maturity structure, using different scenarios for interest rates (assuming parallel shifts) and funding requirements. For simulations involving interest rate changes, based on the assumption that there is no change in funding requirements, Shinhan Bank applies three scenarios of parallel shifts in interest rate: (1) no change, (2) a 1% point increase in interest rates and (3) a 1% point decrease in interest rates.

		VaR for the Year 2018⁽¹⁾			As of
		Average	Minimum	Maximum	December 31
		(In billions of Won)			
Interest rate mismatch and liabilities	non-trading assets	₩ 203	₩ 164	₩ 278	₩ 164

Note:

- (1) One-year VaR results with a 99.9% confidence level. Computed based on Shinhan Bank's internal model. Under the internal model, non-trading assets and liabilities VaR is computed based on historical simulation

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at the 99.9% confidence level, namely by computing the average net present value based on the net present value distribution under historical interest rate scenarios and subtracting from such average net present value the net present value at the 0.1% percentile.

Interest Rate Risk for Other Subsidiaries

Shinhan Card monitors and manages its interest rate risk for all its interest-bearing assets and liabilities (including off-balance sheet items) in terms of the impact on its earnings and net asset value from changes in interest rates. Shinhan Card primarily uses interest rate VaR and EaR analyses to measure its interest rate risk.

The interest rate VaR analysis used by Shinhan Card principally focuses on the maximum impact on its net asset value from adverse movements in interest rates and consists of (i) historical interest rate VaR analysis and (ii) interest rate gap analysis. The historical interest rate VaR analysis is made through simulation of net asset value based on the interest rate volatility over a fixed past period to produce expected future interest rate scenarios and computes the maximum value at risk at a 99.9% confidence level by analyzing the net present value distribution under each such scenario. As for interest rate gap analysis, Shinhan Card computes the value at risk based on the duration proxies and interest rate shocks for each time interval as recommended under the Basel Accord.

The interest rate EaR analysis used by Shinhan Card computes the maximum loss in net interest income for a one-year period following adverse movements in interest rates, based on an interest rate gap analysis using the time intervals and the middle of time band as recommended under the Basel Accord.

Shinhan Investment uses historical interest rate VaR analysis based on its internal model to monitor and manage its interest rate risk. The historical interest rate VaR analysis is made through simulation of net asset value based on the interest rate volatility over the past three years to compute the maximum value at risk at a 99.9% confidence level.

Shinhan Life Insurance monitors and manages its interest rate risk for its investment assets and liabilities based on simulations of its asset-liability management system. These simulations typically involve subjecting Shinhan Life Insurance's current and future assets and liabilities to more than 2,000 market scenarios based on varying assumptions, such as new debt purchases and current investment portfolios, so as to derive its net asset value forecast for the next one year at a 99.9% confidence level.

Interest rate risk for our other subsidiaries is insignificant.

Equity Risk

Substantially all of Shinhan Bank's equity risk relates to its portfolio of common stock in Korean companies. As of December 31, 2018, Shinhan Bank held an aggregate amount of ₩153.7 billion of equity interest in unlisted foreign companies (including ₩1.2 billion invested in unlisted private equity funds).

The equity securities in Won held in Shinhan Bank's investment portfolio consist of stocks listed on the KRX KOSPI Market or the KRX KOSDAQ Market of the Korea Exchange and certain non-listed stocks. Shinhan Bank sets exposure limits for most of these equity securities to manage their related risk. As of December 31, 2018, Shinhan Bank held equity securities in an aggregate amount of ₩552.5 billion in its non-trading accounts, including equity securities in the amount of ₩156.6 billion that it held, among other reasons, for management control purposes and as a result of debt-to-equity conversion as a part of reorganization proceedings of the companies to which it had extended loans.

As of December 31, 2018, Shinhan Bank held Won-denominated convertible bonds in an aggregate amount of ₩237.2 billion and did not hold any Won-denominated exchangeable bonds or Won-denominated bonds with

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warrants in its non-trading accounts. Shinhan Bank does not measure equity risk with respect to convertible bonds, exchangeable bonds or bonds with warrants, and the interest rate risk of these equity-linked securities are measured together with the other debt securities. As such, Shinhan Bank measures interest rate risk VaRs but not equity risk VaRs for these equity-linked securities.

Liquidity Risk Management

Liquidity risk is the risk of insolvency, default or loss due to disparity between inflow and outflow of funds, including the risk of having to obtain funds at a high price or to dispose of securities at an unfavorable price due to lack of available funds. Each of our subsidiaries seeks to minimize liquidity risk through early detection of risk factors related to the sourcing and managing of funds that may cause volatility in liquidity and by ensuring that it maintains an appropriate level of liquidity through systematic management. At the group-wide level, we manage our liquidity risk by conducting monthly stress tests that compare liquidity requirements under normal situations against those under three types of stress situations, namely, our group-specific internal crisis, crisis in the external market and a combination of internal and external crisis. In addition, in order to preemptively and comprehensively manage liquidity risk, we measure and monitor liquidity risk management using various indices, including the limit management index, early warning index and monitoring index.

Shinhan Bank applies the following basic principles for liquidity risk management:

raise funds in sufficient amounts, at the optimal time at reasonable costs;

maintain liquidity risk at appropriate levels and preemptively manage them through a prescribed risk limit system and an early warning signal detection system;

secure stable sources of revenue and minimize actual losses by implementing an effective asset-liability management based on diversified sources of funding with varying maturities;

monitor and manage daily and intra-daily liquidity positions and risk exposures for timely payment and settlement of financial obligations due under both normal and crisis situations;

conduct periodic liquidity stress test in anticipation of any potential liquidity crisis and establish and implement contingency funding plans in case of an actual crisis; and

consider liquidity-related costs, benefits of and risks in determining the pricing of our products and services, performance evaluations and approval of launching of new products and services.

Each of our subsidiaries manages liquidity risk in accordance with the risk limits and guidelines established internally and by the relevant regulatory authorities. Pursuant to principal regulations applicable to financial holding companies and banks as promulgated by the Financial Services Commission, we, at the holding company level, are required to maintain a liquidity coverage ratio and a foreign currency liquidity coverage ratio. These ratios require us to maintain the relevant ratios above certain minimum levels.

Shinhan Bank manages its liquidity risk within the limits set on Won and foreign currency accounts in accordance with the regulations of the Financial Services Commission. The Financial Services Commission implemented a minimum liquidity coverage ratio requirement for Korean banks, including Shinhan Bank, of at least 90.0% as of January 1, 2017, 95.0% as of January 1, 2018 and 100.0% as of January 1, 2019. The Financial Services Commission defines liquidity coverage ratio as high quality liquid assets that can be immediately converted into cash with little or no loss in value, as divided by the net amount of cash outflow for the next 30 day period, under the stress level established according to the liquidity coverage ratio, pursuant to the Regulation on the Supervision of the Banking Business, which was amended as of June 28, 2016 to implement the liquidity coverage ratio requirements under Basel III. In addition to the liquidity coverage ratio, the Financial Supervisory Commission introduced the net stable funding ratio into the Regulation on the Supervision of the Banking Business that came in effect in January 2018. Whereas liquidity coverage ratio is aimed at measuring liquidity for the next 30-day period, net stable funding ratio, calculated as the ratio of available stable funding to required

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stable funding, is aimed at measuring liquidity for the next one-year period. A bank's available stable funding is the portion of its capital and liabilities that are safely expected to remain with the bank for more than one year. A bank's required stable funding is the amount of stable funding that it is required to hold given the liquidity characteristics and residual maturities of its assets and the contingent liquidity risk arising from its off-balance sheet exposures. Shinhan Bank is required by the Financial Services Commission to maintain a net stable funding ratio of at least 100%.

With respect to foreign currency liquidity coverage ratio, the Regulation on the Supervision of the Banking Business requires that financial institutions dealing with foreign exchange affairs (i.e., banks) whose foreign-currency denominated liabilities are equal to or greater than US\$500 million or 5% of its total liabilities, as of the end of the immediately preceding half-year period, maintain a foreign currency liquidity coverage ratio of 60% or higher beginning January 1, 2017, 70% or higher beginning January 1, 2018 and 80% or higher beginning January 1, 2019. The term "foreign currency liquidity coverage ratio" means the ratio of high-liquidity assets to the net cash outflow in respect of foreign-currency denominated assets and liabilities for the next 30 days. In the case of financial institutions dealing with foreign exchange affairs whose foreign-currency denominated liabilities are less than US\$500 million and less than 5% of its total liabilities, as of the end of the immediately preceding half-year period, the following ratios shall be maintained and foreign-currency denominated assets and liabilities shall be categorized and managed according to such different remaining maturities: (i) the ratio of assets for which remaining maturities are less than three months to liabilities for which remaining maturities are less than three months shall be at least 85%, and (ii) the assets for which remaining maturities are less than one month shall not exceed liabilities for which the remaining maturities are less than one month by more than 10%.

Shinhan Bank's Treasury Department is in charge of liquidity risk management with respect to Shinhan Bank's Won and foreign currency funds. The Treasury Department submits Shinhan Bank's monthly funding and asset management plans to Shinhan Bank's Asset and Liability Committee for approval, based on the analysis of various factors, including macroeconomic indices, interest rate and foreign exchange movements and maturity structures of Shinhan Bank's assets and liabilities. Shinhan Bank's Risk Engineering Department measures Shinhan Bank's liquidity coverage ratio on a daily basis and net stable funding ratio on a monthly basis and reports whether they are in compliance with the respective limits to Shinhan Bank's Risk Policy Committee, which sets and monitors Shinhan Bank's liquidity coverage ratio and net stable funding ratio on a monthly basis.

The following tables show Shinhan Bank's (i) average liquidity coverage ratio, (ii) average foreign currency liquidity coverage ratio, and (iii) net stable funding ratio, each for the month of December 2018 in accordance with the regulations of the Financial Services Commission.

Shinhan Bank's Average Liquidity Coverage Ratio for the Month of December 2018

	For the Month of December 2018 (in billions of Won, except percentages)	
High quality liquid assets (A)	₩	52,736
Net cash outflows over the next 30 days (B)		53,988
Cash outflow		84,835
Cash inflow		30,847
Liquidity coverage ratio (A/B)		97.68%

Table of Contents**Shinhan Bank's Average Foreign Currency Liquidity Coverage Ratio for the Month of December 2018**

	For the Month of December 2018	
	(in millions of US\$, except percentages)	
High quality liquid assets (A)	₩	3,583
Net cash outflows over the next 30 days (B)		3,044
Cash outflow		10,618
Cash inflow		7,574
Liquidity coverage ratio (A/B)		117.71%

Shinhan Bank's Net Stable Funding Ratio for the Month of December 2018

	For the Month of December 2018	
	(in billions of Won, except percentages)	
Available stable funding (A)	₩	2,170,955
Required stable funding (B)		1,928,511
Net stable funding ratio (A/B)		112.57%

Shinhan Bank maintains diverse sources of liquidity to facilitate flexibility in meeting its funding requirements. Shinhan Bank funds its operations principally by accepting deposits from retail and corporate depositors, accessing the call loan market (a short-term market for loans with maturities of less than one month), issuing debentures and borrowing from the Bank of Korea. Shinhan Bank uses the funds primarily to extend loans or purchase securities. Generally, deposits are of shorter average maturity than loans or investments.

Shinhan Card manages its liquidity risk according to the following principles: (i) provide a sufficient volume of necessary funding in a timely manner at a reasonable cost, (ii) establish an overall liquidity risk management strategy, including in respect of liquidity management targets, policy and internal control systems, and (iii) manage its liquidity risk in conjunction with other risks based on a comprehensive understanding of the interaction among the various risks. As for any potential liquidity shortage at or near the end of each month, Shinhan Card maintains liquidity at a level sufficient to withstand credit shortage for three months.

In addition, Shinhan Card manages liquidity risk by setting and complying with specific guidelines for various measures of liquidity, including the breakdown of contractual payment obligations by maturity, overseas funding, the ratio of asset-backed securitized borrowings to the total borrowing, the ratio of requisite liquidity to reserve liquidity, and the ratio of fixed interest rate borrowings to floating interest rate borrowings. Furthermore, Shinhan Card closely monitors various indicators of a potential liquidity crisis, such as the actual liquidity gap ratio (in relation to the different maturities for assets as compared to liabilities), the liquidity buffer ratio. Shinhan Card also has contingency plans in place in case of any emergency or crisis. In managing its liquidity risk, Shinhan Card focuses on a prompt response system based on periodic monitoring of the relevant early signals, stress testing and contingency plan formulations. Shinhan Card identifies its funding needs on a daily, monthly, quarterly and annual basis based on the maturity schedule of its liabilities as well as short-term liquidity needs, based upon which it formulates its funding plans using diverse sources such as corporate debentures, commercial papers, asset-backed securitizations and credit line facilities. When entering into asset-backed securitizations, Shinhan Card provides sufficient credit enhancements to avoid triggering early amortization events. In addition, prior to entering into any funding transaction and related

derivative transaction, Shinhan Card conducts pre-transaction risk analyses, including in respect of counterparty credit risk and its total exposure limit by country and by financial institution.

Shinhan Card also manages its liquidity risk within the limits set on Won accounts in accordance with the regulations of the Financial Services Commission. Under the Specialized Credit Financial Business Act and the regulations thereunder, credit card companies in Korea are required to maintain a Won liquidity ratio of at least 100.0%.

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The following tables show Shinhan Card's liquidity status and limits for Won-denominated accounts as of December 31, 2018 in accordance with the regulations of the Financial Services Commission.

Shinhan Card's Won-denominated accounts

Won-Denominated Accounts	As of December 31, 2018						Total
	7 Days or Less	1 Month or Less	3 Months or Less	6 Months or Less	1 Year or Less	Over 1 Year	
	(In billions of Won, except percentages)						
Assets	₩ 2,692	₩ 11,922	₩ 17,426	₩ 20,588	₩ 24,027	₩ 6,138	₩ 30,165
Liabilities	837	3,719	4,569	5,633	7,437	15,562	22,999
Liquidity ratio			381.4%				

Shinhan Investment manages its liquidity risk for its Won-denominated accounts by setting a limit of ₩300 billion on each of its seven-day and one-month liquidity gap, a limit of 110% on its one-month and three-months liquidity ratios and a limit of ₩8 billion on its liquidity VaR. As for its foreign currency-denominated accounts, Shinhan Investment manages the liquidity risk on a quarterly basis in compliance with the guidelines of the Financial Supervisory Service, which requires the one-week and one-month maturity mismatch ratios to be 0% and -10% or less, respectively, and the three months liquidity ratio to be 85% or higher.

Our other subsidiaries fund their operations primarily through call money, bank loans, commercial paper, corporate debentures and asset-backed securities. Our holding company acts as a funding vehicle for long-term financing of our subsidiaries whose credit ratings are lower than the holding company, including Shinhan Card and Shinhan Capital, to lower the overall funding costs within regulatory limitations. Under the Monopoly Regulation and Fair Trade Act of Korea, however, a financial holding company is prohibited from borrowing funds in excess of 200% of its total stockholders' equity.

In addition to liquidity risk management under the normal market situations, we have contingency plans to effectively cope with possible liquidity crisis. Liquidity crisis arises when we would not be able to effectively manage the situations with our normal liquidity management measures due to, among other reasons, inability to access our normal sources of funds or epidemic withdrawals of deposits as a result of various external or internal factors, including a collapse in the financial markets or abrupt deterioration of our credit. We have contingency plans corresponding to different stages of liquidity crisis: namely, alert stage, imminent-crisis stage and crisis stage, based on the following liquidity indices:

indices that reflect the market movements such as interest rates and stock prices;

indices that reflect financial market sentiments, an example being the size of money market funds; and

indices that reflect our internal liquidity condition.

Operational Risk Management

Operational risk is difficult to quantify and subject to different definitions. The Basel Committee defines operational risk as the risk of loss resulting from inadequate or failed internal processes, people and systems or from other external events. Similarly, we define operational risk as the risks related to our overall management other than credit risk, market risk, interest rate risk and liquidity risk. These include risks arising from system failure, human error, non-adherence to policy and procedures, fraud, inadequate internal controls and procedures or environmental changes and resulting in financial and non-financial loss. We monitor and assess operational risks related to our business operations, including administrative risk, information technology risk (including cyber security risk), managerial risk and legal risk, with a view to minimizing such losses.

Our holding company's Audit Committee, which consists of three outside directors, one of whom is an accounting or financial expert as required by internal control regulations under the Act on Corporate Governance of Financial Companies, oversees and monitors our operational compliance with legal and regulatory

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requirements. The Audit Committee also oversees management's operations and may, at any time it deems appropriate, demand additional operations-related reporting from management and inspects our asset condition. At the holding company level, we define each subsidiary's operational process and establish an internal review system applicable to each subsidiary. Each subsidiary's operational risk is internally monitored and managed at the subsidiary level and the Group Internal Audit Department at our holding company, which reports to our Audit Committee, continuously monitors the integrity of our subsidiaries' operational risk management system. Our holding company's board of directors and the Group Risk Management Committee establish our basic policies for operational risk management at the group level. The Group Internal Audit Department at our holding company is directly responsible for overseeing our operational risk management with a focus on legal, regulatory, operational and reputational risks. The Group Internal Audit Department audits both our and our subsidiaries' operations and asset condition in accordance to our annual audit plan, which is approved by the Audit Committee, and submits regular reports to the Audit Committee pursuant to our internal reporting system. If the Group Internal Audit Department discovers any non-compliance with operational risk procedures or areas of weaknesses, it promptly alerts the business department in respect of which such non-compliance was discovered and demands implementation of corrective measures. Implementation of such corrective measures is subsequently reviewed by the Group Internal Audit Department.

To monitor and manage operational risk, Shinhan Bank maintains a system of comprehensive policies and has in place a control framework designed to provide a stable and well-managed operational environment throughout the organization. Currently, the primary responsibility for ensuring compliance with our banking operational risk procedures remains with each of the business units and operational teams. In addition, the Audit Department, the Risk Management Department and the Compliance Department of Shinhan Bank also play important roles in reviewing and maintaining the integrity of Shinhan Bank's internal control environment.

The operational risk management system of Shinhan Bank is managed by the operational risk team under the Risk Management Department. The current system principally consists of risk control self-assessment, risk quantification using key risk indicators, loss data collection, scenario analysis and operational risk capital measurement. Shinhan Bank operates several educational and awareness programs designed to have all of its employees to be familiar with this system. In addition, Shinhan Bank has a designated operational risk manager at each of its departments and branch offices, who serves as a coordinator between the operational risk team at the headquarters and the employees in the front office and seeking to provide centralized feedback to further improve the operational risk management system.

As of December 31, 2018, Shinhan Bank has conducted risk control self-assessments on its departments as well as domestic and overseas branch offices, from which it collects systematized data on all of its branch offices, and uses the findings from such self-assessments to improve the procedures and processes for the relevant departments or branch offices. In addition, Shinhan Bank has accumulated risk-related data since 2003, improved the procedures for monitoring operational losses and is developing risk simulation models. In addition, Shinhan Bank selects and monitors, at the department level, approximately 186 key risk indicators.

The Audit Committee of Shinhan Bank, which consists of one standing director and two outside directors, is an independent inspection authority that supervises Shinhan Bank's internal controls and compliance with established ethical and legal principles. The Audit Committee performs internal audits of, among other matters, Shinhan Bank's overall management and accounting, and supervises its Audit Department, which assists Shinhan Bank's Audit Committee. Shinhan Bank's Audit Committee also reviews and evaluates Shinhan Bank's accounting policies and their changes, financial and accounting matters and fairness of financial reporting.

Shinhan Bank's Audit Committee, Audit Department and Compliance Department supervise and perform the following duties:

general audits, including full-scale audits performed annually for the overall operations, sectional audits of selected operations performed as needed, and periodic and irregular spot audits;

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special audits, performed when the Audit Committee deems it necessary or pursuant to requests by the chief executive officer or supervisory authorities such as the Financial Supervisory Service;

day-to-day audits, performed by the standing member of Shinhan Bank's Audit Committee for material transactions or operations that are subject to approval by the heads of Shinhan Bank's operational departments or senior executives;

real-time monitoring audits, performed by the computerized audit system to identify any irregular transactions and take any necessary actions; and

self-audits as a self-check by each operational department to ensure its compliance with our business regulations and policies, which include daily audits, monthly audits and special audits.

In addition to these audits and compliance activities, Shinhan Bank's Audit Department designates operational risk management examiners to monitor the appropriateness of operational risk management frameworks and the functions and activities of the board of directors, relevant departments and business units, and conducts periodic checks on the operational risk and reports such findings. Shinhan Bank's Risk Management Department also reviews in advance proposed banking products or other business or service plans with a view to minimizing operational risk.

As for Shinhan Investment, its audit department conducts an annual inspection as to whether the internal policy and procedures of Shinhan Investment relating to its overall operational risk management are being effectively complied. The inspection has a particular focus on the appropriateness of the scope of operational risks and the collection, maintenance and processing of relevant operating data. Shinhan Investment, through its operational risk management system, also conducts self-assessments of risks, collects loss data and manages key risk indicators. The operational risk management system is supervised by its audit department, compliance department and risk management department, as well as a risk management officer in each of Shinhan Investment's departments.

Shinhan Card's audit committee reviews whether the internal policy and procedures of Shinhan Card are effective and implements measures to improve such policies as needed. Shinhan Card's audit committee also contributes to work efficiency, financial risk minimization and management rationalization. Shinhan Card is expected to develop an operational risk management system once the Financial Supervisory Service announces its oversight guidelines regarding operational risk measurement.

Shinhan Life Insurance's Risk Management Department and Compliance Department reviews whether the internal policy and procedures of Shinhan Life Insurance are being effectively complied with. Shinhan Life Insurance implemented an operational risk management process in 2018 by setting up key risk indicators in each department and utilizes it to assess operational risk, collect data and manage key indicators. Furthermore, Shinhan Life Insurance established a standard roadmap to improve its operational risk assessment capabilities.

General audits, special audits, day-to-day audits and real-time monitoring audits are performed by our examiners, and self-audits are performed by the self-auditors of the relevant operational departments.

In addition to internal audits and inspections, the Financial Supervisory Service conducts general annual audits of our and our subsidiaries' operations. The Financial Supervisory Service also performs special audits as the need arises on particular aspects of our and our subsidiaries' operations such as risk management, credit monitoring and liquidity. In the ordinary course of these audits, the Financial Supervisory Service routinely issues warning notices where it

determines that a regulated financial institution or such institution's employees have failed to comply with the applicable laws or rules, regulations and guidelines of the Financial Supervisory Service. We and our subsidiaries have in the past received, and expect in the future to receive, such notices and we have taken and will continue to take appropriate actions in response to such notices. For example, the Financial Supervisory Service conducted a comprehensive audit of Shinhan Bank from November to December

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2012, and in July 2013 notified Shinhan Bank of an institutional caution (which does not give rise to significant sanctions unlike in the case of repeated institutional warnings), imposed disciplinary actions against 65 Shinhan Bank employees and assessed a fine of ₩87.5 million after finding that Shinhan Bank had monitored customer accounts without proper authorization, breached confidentiality with respect to certain financial transactions and violated its obligation to disclose and report to the Financial Supervisory Service an investment in an affiliated company of Shinhan Bank. Furthermore, in March 2013 the Financial Supervisory Service conducted a special audit of Shinhan Bank as to incidents of alleged malfunctioning of its financial computer network and in December 2013, notified Shinhan Bank of an institutional caution and imposed disciplinary actions against five Shinhan Bank employees after finding that Shinhan Bank did not properly maintain its information technology administrator account and vaccine server. From October 2013 to November 2014, the Financial Supervisory Service also conducted a series of special audits of Shinhan Bank as to incidents of alleged unauthorized monitoring of customer accounts, and in February 2014, the Prosecutors' Office in Korea also commenced an investigation of Shinhan Bank with respect to same. In December 2015, the Financial Supervisory Service notified Shinhan Bank of an institutional caution and imposed disciplinary actions against two former Shinhan Bank officers after finding that Shinhan Bank had monitored customer accounts without proper authorization, whereas in April 2016, the Prosecutors' Office determined not to prosecute the former officers of Shinhan Bank because of insufficient evidence. In addition, the Financial Supervisory Service conducted a periodic audit of Shinhan Bank from April to May 2015 and notified Shinhan Bank of five items requiring management's attention and three items for improvement in June 2016 in connection with such audit. The Financial Supervisory Service conducted an additional audit in April 2017 and notified Shinhan Bank of 11 items requiring a management attention and 18 items for improvement in connection with such audit.

The Financial Supervisory Service also conducted a special audit of Shinhan Card, together with BC Card and KB Kookmin Card, from June to July 2013, in relation to alleged imperfect sales of insurance products, and in March 2014, issued an institutional warning against each of the three credit card companies based on a finding that card customers were provided inadequate or misleading disclosures regarding the risks relating to such products at the time of sale. The Financial Supervisory Service also imposed disciplinary actions against three Shinhan Card employees and assessed a fine of ₩10 million against Shinhan Card as well as similar sanctions against BC Card and KB Kookmin Card. In addition, the Financial Supervisory Service conducted a comprehensive audit of Shinhan Card, together with Samsung Card and Hyundai Card, in September 2014, and in November 2015, issued an institutional warning against each of the three credit card companies based on a finding that they had illegally provided personal credit information of potential new cardholders to their credit card sales agents. The Financial Supervisory Service also imposed disciplinary actions against six Shinhan Card employees and assessed a fine of ₩6 million against Shinhan Card as well as similar sanctions against Samsung Card and Hyundai Card. In December 2014, the Financial Supervisory Service also issued institutional cautions against Shinhan Life Insurance for selling insurance products without adequate disclosure and for incomplete payments of agency fees, together with a fine of ₩338 million in relation to the former case.

We consider legal risk as a part of operational risk. The uncertainty of the enforceability of obligations of our customers and counterparties, including foreclosure on collateral, creates legal risk. Changes in laws and regulations could also adversely affect us. Legal risk is higher in new areas of business where the law is often untested in the courts although legal risk can also increase in our traditional business to the extent that the legal and regulatory landscape in Korea changes and many new laws and regulations governing the banking industry remain untested. We seek to minimize legal risk by using stringent legal documentation, employing procedures designed to ensure that transactions are properly authorized and consulting legal advisers. The Compliance Department operates Shinhan Financial Group's compliance system. This system is designed to ensure that all employees of Shinhan Financial Group and its subsidiaries comply with the relevant laws and regulations. The compliance system's main function is to monitor the degree of improvement in compliance with the relevant laws and regulations, maintain internal controls (including ensuring that each department has established proper internal policies and that it complies with those

policies) and educate employees about observance of the relevant laws and regulations. The Compliance Department also supervises the management, execution and performance of self-audits.

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Our recent material upgrades in relation to risk management systems are as follows.

Shinhan Financial Group

In May 2015, we developed and implemented a credit review system to unify our corporate credit review and risk measurements, allowing us and our subsidiaries to utilize a uniform and consistent credit review system with respect to each borrower. In addition, in preparation of full implementation of Basel III requirements relating to liquidity coverage ratios for bank holding companies and to enhance our liquidity risk management capabilities, we have implemented a Basel III liquidity coverage ratio risk management system by which we calculate our liquidity coverage ratio each month.

Shinhan Bank

In order to strengthen risk management of its overseas subsidiaries and effectively comply with local and domestic regulations, Shinhan Bank is in the process of laying out a global risk management system network, which records the risk data of its overseas subsidiaries. Shinhan Bank seeks to leverage the development of this system for further overseas expansion and stable growth of existing overseas subsidiaries. To date, Shinhan Bank has completed the development of such system for its subsidiaries in China, Japan, Vietnam, the United States, Canada, India, Europe and Mexico. Shinhan Bank also plans to expand the application of this system to its other overseas subsidiaries.

Shinhan Bank has also completed development of a system to calculate stressed VaR based on Basel II standards in order to prepare for stress situations such as the global financial crisis in 2008. Shinhan Bank has received approval for such system from the Financial Supervisory Service and has been implemented since 2012.

In 2012, Shinhan Bank developed a system for improving collection and recovery of bad assets through enhanced loss given default data processing. In addition, in 2012, Shinhan Bank received approvals from the Financial Supervisory Service for upgrades to its credit evaluation modeling for risk assessment of small- to medium-sized enterprises that are not required to be audited by outside accounting firms and for SOHOs, which upgrades related to factoring in the credit profile of the head of such enterprises and SOHOs. In 2014, Shinhan Bank further upgraded the credit evaluation modeling for risk assessment of small- and medium-size enterprises that are not required to be audited by outside accounting firms by entirely revamping the modeling for enterprises subject to outside audits, enterprises that are not subject to outside auditors and enterprise heads. Such upgraded modeling was approved by the Financial Supervisory Service, and Shinhan Bank began implementation of the upgraded system since 2014. In 2014, Shinhan Bank reclassified its credit evaluation models for risk assessment of enterprises into the following four categories: (i) IFRS (enterprises subject to external audits under Korean IFRS), (ii) GAAP (enterprises subject to external audits under Generally Accepted Accounting Principles), (iii) small- and medium-size enterprises and (iv) SOHO. Such reclassification was approved by the Financial Supervisory Service, and Shinhan Bank began to implement the system in 2015.

In addition, in 2013, Shinhan Bank obtained approval from the Financial Supervisory Service to use an internal evaluation model with respect to Basel II credit risks related to Shinhan Bank's retail SOHO exposures. In 2016, Shinhan Bank developed a new internal evaluation model and obtained approval from the Financial Supervisory Service to use the new model with respect to Basel II credit risks related to Shinhan Bank's retail exposures. In addition, Shinhan Bank received another approval in 2016 for loss given default data processing using the AIRB approach in order to reflect changes in economic conditions such as prolonged recovery periods and low interest rates, and the newly approved loss given default data processing will replace existing loss given default data processing for

both retail and SOHO exposures.

Shinhan Bank also upgraded the asset and liability management system in 2012 in order to timely comply with Basel III, IFRS and other regulatory requirements as well as to upgrade the quality of risk-related data. In

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2014, Shinhan Bank upgraded the liquidity coverage ratio and net stable funding ratio systems under Basel III in order to facilitate daily measurement and efficient management.

Following the approval by the Financial Supervisory Service of the advanced measurement approach for risk management, Shinhan Bank has re-established the operational risk management system in order to further enhance its operational risk management capabilities.

Shinhan Card

In 2012, Shinhan Card completed further upgrades to its credit risk measurement system in satisfaction of the Basel II standards, as well as other regulatory requirements and internal needs in order to address the ongoing volatility in the economic and regulatory environment. In December 2016, Shinhan Card obtained approval from the Financial Supervisory Service to use a new internal evaluation model with respect to Basel III credit risks related to its retail and SOHO exposures.

Shinhan Investment

In 2016, Shinhan Investment established a Risk Engineering Team and updated its market risk management system to increase its value assessment capabilities for over-the-counter derivatives, strengthen its VaR risk analysis capabilities and improve various simulation functions. Beginning in 2017, the Risk Engineering Team conducts value assessment and reviews over-the-counter derivatives directly using various enhanced simulation functions such as updated stress tests in order to stabilize financial accounting prices and enhance the risk management of over-the-counter derivatives. In January 2019, the Risk Engineering Team was elevated to a department, becoming the Risk Engineering Department, expanding the scope of products reviewed by the department and strengthening its simulation analysis capabilities.

Shinhan Life Insurance

In 2017, Shinhan Life Insurance completed further upgrades to its interest rate risk measurement system, called the ALM system, in anticipation of Korea-ICS, a new insurance liability market valuation system designed to replace the existing risk based capital system, and IFRS 17, both expected to become effective beginning 2022. In 2018, the new asset liability management system implemented an interest rate risk management system based on the Europe Solvency II standard. The asset liability management system can measure both asset and liability based on marking to market valuation. Shinhan Life Insurance also updated its interest rate risk management system to control net income margin volatility resulting from market interest rate changes and has tailored its business scheme to this system in order to better manage risk and profits and match the duration of its assets and liabilities.

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Supervision and Regulation

Principal Regulations Applicable to Financial Holding Companies

General

The Korean financial holding companies and their subsidiaries are regulated by the Financial Holding Companies Act (last amended on December 31, 2018, Law No. 16182). In addition, Korean financial holding companies and their subsidiaries are subject to the regulations and supervision of the Financial Services Commission and the Financial Supervisory Service.

Pursuant to the Financial Holding Companies Act, the Financial Services Commission regulates various activities of financial holding companies. For instance, it approves the application for setting up a new financial holding company and promulgates regulations on the capital adequacy of financial holding companies and their subsidiaries and other regulations relating to the supervision of financial holding companies.

The Financial Supervisory Service is subject to the instructions and directives of the Financial Services Commission and carries out supervision and examination of financial holding companies and their subsidiaries. In particular, the Financial Supervisory Service sets forth liquidity and capital adequacy requirements for financial holding companies and reporting requirements pursuant to the authority delegated to the Financial Supervisory Service under the Financial Services Commission regulations, pursuant to which financial holding companies are required to submit quarterly reports on business performance, financial status and other matters prescribed in the Presidential Decree of the Financial Holding Companies Act.

Under the Financial Holding Companies Act, the establishment of a financial holding company must be approved by the Financial Services Commission. A financial holding company is required to be mainly engaged in controlling its subsidiaries by holding the shares or equities of the subsidiaries in the amount of not less than 50% of aggregate amount of such financial holding company's assets based on the latest balance sheet. A financial holding company is prohibited from engaging in any profit-making businesses other than controlling the management of its subsidiaries and certain ancillary businesses as prescribed in the Presidential Decree of the Financial Holding Companies Act which include the following businesses:

financially supporting its subsidiaries and the subsidiaries of its subsidiaries (the direct and indirect subsidiaries), including lending properties with economic values such as monies and securities, guaranteeing obligation performance and other direct or indirect transactions involving transactional credit risk;

raising capital necessary for the investment in subsidiaries or providing financial support to its direct and indirect subsidiaries;

supporting the business of its direct and indirect subsidiaries for the joint development and marketing of new products;

supporting the operations of its direct and indirect subsidiaries by providing access to data processing, legal and accounting resources; and

pursuing any other activities exempted from authorization, permission or approval under the applicable laws and regulations.

The Financial Holding Companies Act requires every financial holding company (other than any financial holding company that is controlled by any other financial holding company) or its subsidiaries to obtain the prior approval from the Financial Services Commission before acquiring control of another company or to file with the Financial Services Commission a report within thirty days after acquiring such control. Permission to liquidate or to merge with any other company must be obtained in advance from the Financial Services Commission. A financial holding company must report to the Financial Services Commission regarding certain events including:

when there is a change of its largest shareholder;

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when there is a change of principal shareholders of a bank holding company;

when the shareholding of the largest shareholder or a principal shareholder as prescribed under the Financial Holding Companies Act or a person who is in a special relationship with such largest or principal shareholder (as defined under the Presidential Decree of the Financial Holding Companies Act) changes by 1% or more of the total issued and outstanding voting shares of the financial holding company;

when there is a change of its name;

when there is a cause for dissolution; and

when it or its subsidiary ceases to control any of its respective direct and indirect subsidiaries by disposing of the shares of such direct and indirect subsidiaries.

Capital Adequacy

The Financial Holding Companies Act does not provide for a minimum paid-in capital of financial holding companies. All financial holding companies, however, are required to maintain a specified level of solvency. In addition, in its allocation of the net profit earned in a fiscal term, a financial holding company is required to set aside in its legal reserve an amount equal to at least 10% of the net income after tax each time it pays dividends on its net profits earned until its legal reserve reaches at least the aggregate amount of its paid-in capital.

A financial holding company controlling banks or other financial institutions conducting banking business as prescribed in the Financial Holding Company Act (hereinafter, the bank holding company) is required to maintain a minimum consolidated equity capital ratio of 8.0%. Consolidated equity capital ratio is defined as the ratio of equity capital as a percentage of risk-weighted assets on a consolidated basis, determined in accordance with the Financial Services Commission requirements that have been formulated based on the Bank of International Settlements standards. Equity capital, as applicable to bank holding companies, is defined as the sum of Tier I capital, Tier II capital, and Tier III capital less any deductible items, each as defined under the Regulation on the Supervision of Financial Holding Companies. Risk-weighted assets is defined as the sum of credit risk-weighted assets and market risk-weighted assets.

For regulatory reporting purposes, we maintain allowances for credit losses on the following loan classifications that classify corporate and retail loans as required by the Financial Services Commission. In making these classifications, we take into account a number of factors, including the financial position, profitability and transaction history of the borrower, the value of any collateral or guarantee taken as security for the extension of credit, probability of default and loss amount in the event of default. This classification method, and our related provisioning policy, is intended to reflect the borrower's capacity to repay. To the extent there is any conflict between the Financial Services Commission guidelines and our internal analysis in such classifications, we adopt whichever is more conservative.

The following table sets forth loan classifications according to the guidelines of the Financial Services Commission.

Loan Classification

Loan Characteristics

Normal	Loans extended to customers that, based on our consideration of their business, financial position and future cash flows, do not raise concerns regarding their ability to repay the loans.
Precautionary	Loans extended to customers that (i) based on our consideration of their business, financial position and future cash flows, show potential risks with respect to their ability to repay the loans, although showing no immediate default risk or (ii) are in arrears for one month or more but less than three months.

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Loan Classification

Loan Characteristics

Substandard

(i) Loans extended to customers that, based on our consideration of their business, financial position and future cash flows, are judged to have incurred considerable default risks as their ability to repay has deteriorated; or

(ii) the portion that we expect to collect of total loans (a) extended to customers that have been in arrears for three months or more, (b) extended to customers that have incurred serious default risks due to the occurrence of, among other things, final refusal to pay their debt instruments, entry into liquidation or bankruptcy proceedings or closure of their businesses, or (c) extended to customers who have outstanding loans that are classified as doubtful or estimated loss.

Doubtful

Loans exceeding the amount that we expect to collect of total loans to customers that:

(i) based on our consideration of their business, financial position and future cash flows, have incurred serious default risks due to noticeable deterioration in their ability to repay; or

(ii) have been in arrears for three months or more but less than twelve months.

Estimated loss

Loans exceeding the amount that we expect to collect of total loans to customers that:

(i) based on our consideration of their business, financial position and future cash flows, are judged to be accounted as a loss because the inability to repay became certain due to serious deterioration in their ability to repay;

(ii) have been in arrears for twelve months or more; or

(iii) have incurred serious risks of default in repayment due to the occurrence of, among other things, final refusal to pay their debt instruments, liquidation or bankruptcy proceedings or closure of their business.

In accordance with the Regulations for the Supervision of Financial Institutions, we establish regulatory reserve for loan loss in the amount of the difference between allowance for credit losses as calculated pursuant to our provisioning policy in accordance with IFRS and allowance for credit losses based on the loan classifications set forth

above as required by the Financial Services Commission. In determining consolidated equity capital ratio, we deduct regulatory reserve for loan loss from equity capital.

Liquidity

All financial holding companies are required to match the maturities of their assets to those of liabilities in accordance with the Financial Holding Companies Act in order to ensure liquidity. Financial holding companies are required to submit quarterly reports regarding their liquidity to the Financial Supervisory Service and must:

maintain a Won liquidity ratio (defined as Won assets due within one month, including marketable securities, divided by Won liabilities due within three months) of not less than 100%;

maintain a foreign currency liquidity ratio (defined as foreign currency liquid assets due within three months divided by foreign currency liabilities due within three months) of not less than 80% except for financial holding companies with a foreign currency liability to total assets ratio of less than 1%;

maintain a ratio of foreign currency liquid assets due within seven days less foreign currency liabilities due within seven days divided by total foreign currency assets of not less than 0%, except for financial holding companies with a foreign currency liability to total assets ratio of less than 1%; and

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maintain a ratio of foreign currency liquid assets due within a month less foreign currency liabilities due within a month divided by total foreign currency assets of not less than negative 10% except for financial holding companies with a foreign currency liability to total assets ratio of less than 1%.

Financial Exposure to Any Single Customer and Major Shareholders

Subject to certain exceptions, the total sum of credit (as defined in the Presidential Decree of the Financial Holding Companies Act, the Bank Act, the Presidential Decree of the Financial Investment Services and Capital Markets Act, the Insurance Act, the Mutual Savings Bank Act and the Specialized Credit Financial Business Act, respectively) of a financial holding company and its direct and indirect subsidiaries which are banks, merchant banks or securities companies (Financial Holding Company Total Credit) extended to a single group of companies that belong to the same conglomerate as defined in the Monopoly Regulations and Fair Trade Act will not be permitted to exceed 25% of the Net Total Equity Capital.

Net Total Equity Capital for the purpose of the calculation of financial exposure to any single customer and Major Shareholder (as defined below) as applicable to us and our subsidiaries is defined under the Presidential Decree of the Financial Holding Companies Act as

- (a) the sum of:
- (i) in the case of a financial holding company, the shareholders' equity as defined under Article 24-3, Section 7(2) of the Presidential Decree of the Financial Holding Companies Act, which represents the difference between the total assets less total liabilities on the balance sheet as of the end of the most recent quarter;
 - (ii) in the case of a bank, the shareholders' equity as defined under Article 2, Section 1(5) of the Bank Act, which represents the sum of Tier I and Tier II capital amounts determined according to the standards set by the BIS;
 - (iii) in the case of a merchant bank, the capital amount as defined in Article 342, Section (1) of the Financial Investment Services and Capital Markets Act;
 - (iv) in the case of a financial investment company, the shareholders' equity as defined under Article 37, Section 3 of the Presidential Decree of the Financial Investment Services and Capital Markets Act, which represents the total shareholders' equity as adjusted as determined by the Financial Services Commission, such as the amount of increase or decrease in paid-in capital after the end of the most recent fiscal year;
 - (v) in the case of an insurance company, the shareholders' equity as defined under Article 2, Section 15 of the Insurance Act, which represents the sum of items designated by the Presidential Decree, such as paid-in-capital, capital surplus, earned surplus and any equivalent items, less the value of good will and other equivalent items;

- (vi) in the case of a mutual savings bank, the shareholders' equity as defined under Article 2, Section 4 of the Mutual Savings Bank Act, which represents the sum of Tier I and Tier II capital amounts determined in accordance with the standards set by the Bank for International Settlements; and
- (vii) in the case of a credit card company or a specialty credit provider, the shareholders' equity as defined under Article 2, Section 19 of the Specialized Credit Financial Business Act, which represents the sum of the items designated by the Presidential Decree, such as paid-in-capital, capital surplus, earned surplus and any equivalent items;

(b) less the sum of:

- (i) the amount of shares in direct and indirect subsidiaries held by the financial holding company;

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(ii) the amount of shares in the direct and indirect subsidiaries that are cross-held by such subsidiaries; and

(iii) the amount of shares in the financial holding company held by its direct and indirect subsidiaries.

The Financial Holding Company Total Credit to a single individual or legal entity may not exceed 20% of the Net Total Equity Capital.

Furthermore, the total sum of credits (as defined under the Financial Holding Companies Act, the Banking Act and the Financial Investment Services and Capital Markets Act, respectively) of a bank holding company and its direct and indirect subsidiaries (Bank Holding Company Total Credit) extended to a Major Shareholder (together with the persons who have special relationship with such Major Shareholder) (as defined below) generally may not exceed the smaller of (x) 25% of the Net Total Equity Capital and (y) the amount of the equity capital of the financial holding company multiplied by the shareholding ratio of such Major Shareholder, subject to certain exceptions.

Major Shareholder is defined under the Financial Holding Companies Act as follows:

(a) a shareholder holding (together with persons who have a special relationship with such shareholder as defined in the Presidential Decree of the Financial Holding Companies Act) in excess of 10% (or in the case of a financial holding company controlling regional banks only, 15%) in the aggregate of the financial holding company's total issued and outstanding voting shares; or

(b) a shareholder holding (together with persons who have a special relationship with such shareholder as defined in the Presidential Decree of the Financial Holding Companies Act) more than 4% in the aggregate of the total issued and outstanding voting shares of the financial holding company controlling national banks (other than a financial holding company controlling regional banks only), excluding shares related to the shareholding restrictions on non-financial business group companies as described below, where such shareholder is the largest shareholder or has actual control over the major business affairs of the financial holding company through, for example, appointment and dismissal of the officers pursuant to the Presidential Decree of the Financial Holding Companies Act.

In addition, the total sum of the Bank Holding Company Total Credit extended to all of a bank holding company's Major Shareholder may not exceed 25% of the Net Total Equity Capital. Furthermore, the bank holding company and its direct and indirect subsidiaries that intend to extend the Bank Holding Company Total Credit to the bank holding company's Major Shareholder not less than the lesser of (i) the amount equivalent to 0.1% of the Net Total Equity Capital or (ii) ₩5 billion, with respect to a single transaction, must obtain prior unanimous board resolutions and then, immediately after the completion of the transaction, must file a report with the Financial Services Commission and publicly disclose the filing of such report (for example, through a website).

Restrictions on Transactions among Direct and Indirect Subsidiaries and Financial Holding Company

Generally, a direct or indirect subsidiary of a financial holding company may not extend credit to the financial holding company which directly or indirectly controls such subsidiary. In addition, a direct or indirect subsidiary of a financial holding company may not extend credit to any other single direct or indirect subsidiary of the financial holding company in excess of 10% of its stockholders' equity and to any other direct and indirect subsidiaries of the financial holding company in excess of 20% of its stockholders' equity in the aggregate. The direct or indirect subsidiaries of a financial holding company must obtain an appropriate level of collateral for the credits extended to the other direct and indirect subsidiaries unless otherwise approved by the Financial Services Commission. The appropriate level of collateral for each type of such collateral is as follows:

- (i) For deposits and installment savings, obligations of the Korean government or the Bank of Korea, obligations guaranteed by the Korean government or the Bank of Korea, obligations secured by

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securities issued or guaranteed by the Korean government or the Bank of Korea: 100% of the amount of the credit extended;

- (ii) (a) For obligations of local governments under the Local Autonomy Act, local public enterprises under the Local Public Enterprises Act, and investment institutions and other quasi-investment institutions under the Basic Act on the Management of Government-Invested Institution (hereinafter, the public institutions and others); (b) obligations guaranteed by the public institutions and others; and (c) obligations secured by the securities issued or guaranteed by public institutions and others: 110% of the amount of the credit extended; and

- (iii) For any property other than those set forth in the above (i) and (ii): 130% of the amount of the credit extended.

Subject to certain exceptions, a direct or indirect subsidiary of a financial holding company is prohibited from owning the shares of any other direct or indirect subsidiaries (other than those directly controlled by the direct and indirect subsidiaries in question) in common control by the financial holding company. However, a direct or indirect subsidiary of a financial holding company may invest as a limited partner in a private equity fund that is a direct or indirect subsidiary of the same financial holding company. The transfer of certain assets subject to or below the precautionary criteria between the financial holding company and its direct or indirect subsidiary or between the direct and indirect subsidiaries of a financial holding company is prohibited except for (i) the transfer to an asset-backed securitization company, typically a special purpose entity, or the entrustment with a trust company, under the Asset-Backed Securitization Act, (ii) the transfer to a mortgage-backed securitization company under the Mortgage-Backed Securitization Company Act, (iii) the transfer or in-kind contribution to a corporate restructuring vehicle under the Corporate Restructuring Investment Company Act or (iv) the acquisition by a corporate restructuring company under the Industrial Development Act.

Disclosure of Management Performance

For the purpose of protecting the depositors and investors in the subsidiaries of the financial holding companies, the Financial Services Commission requires financial holding companies to disclose certain material matters including (i) financial condition and profit and loss of the financial holding company and its direct and indirect subsidiaries, (ii) how capital was raised by the financial holding company and its direct and indirect subsidiaries and how such capital was used, (iii) any sanctions levied on the financial holding company and its direct and indirect subsidiaries under the Financial Holding Companies Act or any corrective measures or sanctions under the Law on Improvement of Structure of Financial Industry or (iv) occurrence of any non-performing assets or financial incident which may have a material adverse effect.

Restrictions on Shareholdings in Other Companies

Subject to certain exceptions, a bank holding company may not own more than 5% of the total issued and outstanding shares of another company (other than its direct and indirect subsidiaries). If the financial holding company owns shares of another company (other than its direct and indirect subsidiaries) which is not a finance-related company, the financial holding company is required to exercise its voting rights in the same manner and same proportion as the other shareholders of the company exercise their voting rights in favor of or against any resolutions under consideration at the shareholders' meeting of the company.

Restrictions on Shareholdings by Direct and Indirect Subsidiaries

Generally, a direct subsidiary of a financial holding company is prohibited from controlling any other company; *provided* that a direct subsidiary of a financial holding company may control (as an indirect subsidiary of the financial holding company): (i) subsidiaries in foreign jurisdiction which are engaged in a financial business, (ii) certain financial institutions which are engaged in the business that the direct subsidiary may conduct without any licenses or permits, (iii) certain financial institutions whose business is related to the

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business of the direct subsidiary as prescribed under the Presidential Decree of the Financial Holding Companies Act (for example, the companies which a bank subsidiary may control are limited to credit information companies, credit card companies, trust business companies, securities investment management companies, investment advisory companies, futures business companies, and asset management companies), (iv) certain financial institutions whose business is related to financial business as prescribed by the regulations of the Ministry of Strategy and Finance, and (v) certain companies which are not financial institutions but whose business is related to the financial business of the financial holding company as prescribed by the Presidential Decree of the Financial Holding Companies Act (e.g. finance-related research company, finance-related information technology company, etc.). Acquisition by the direct subsidiaries of such indirect subsidiaries requires a prior permission from the Financial Services Commission or a report to be submitted to the Financial Services Commission, depending on the types of the indirect subsidiaries and the amount of total assets of the indirect subsidiaries.

An indirect subsidiary of a financial holding company is prohibited from controlling any other company, provided, however, that in the case where a company held control over another company at the time such company initially became an indirect subsidiary of a financial holding company, such indirect subsidiary shall be required to dispose of its interest in such other company within two years after becoming an indirect subsidiary of a financial holding company.

A subsidiary of a financial holding company may invest in a special purpose company as its largest shareholder for purposes of making investments under the Act on Private Investment in Social Infrastructure without being deemed as controlling such special purpose company.

In addition, a private equity fund established in accordance with the Financial Investment Services and Capital Markets Act is not considered to be a subsidiary of a financial holding company even if the financial holding company is the largest investor in the private equity fund unless the financial holding company is the asset management company for the private equity fund.

Restrictions on Transactions Between a Financial Holding Company and its Major Shareholder

A bank holding company and its direct and indirect subsidiaries are prohibited from acquiring (including acquisition by a trust account of its subsidiary bank) shares issued by such bank holding company's Major Shareholder in excess of 1% of the Net Total Equity Capital. In addition, the financial holding company and its direct and indirect subsidiaries which intend to acquire shares issued by such Major Shareholder not less than the lesser of (i) the amount equivalent to 0.1% of the Net Total Equity Capital or (ii) ₩5 billion, with respect to a single transaction, must obtain prior unanimous board resolutions and then, immediately after the acquisition, must file a report with the Financial Services Commission and publicly disclose the filing of such report (for example, through a website).

Restrictions on Financial Holding Company Ownership

Under the Financial Holding Companies Act, foreign financial institutions are permitted to establish financial holding companies in Korea. Pursuant to the Presidential Decree of the Financial Holding Companies Act, a foreign financial institution can control a financial holding company if, subject to satisfying certain other conditions, it, together with its specially-related persons, holds 100% of the total shares in the financial holding company.

In addition, any single shareholder and persons who stand in a special relationship with such shareholder (as defined under the Presidential Decree to the Financial Holding Companies Act) may acquire beneficial ownership of up to 10% of the total issued and outstanding shares with voting rights of a financial holding company controlling national banks (or 15% in the case of a financial holding company controlling regional banks only). The Government and the

Korea Deposit Insurance Corporation are not subject to such a ceiling.

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However, non-financial business group companies (as defined below) may not acquire beneficial ownership of shares of a bank holding company in excess of 4% of such financial holding company's outstanding voting shares, provided that such non-financial business group companies may acquire beneficial ownership of up to 10% of such financial holding company's outstanding voting shares with the approval of the Financial Services Commission under the condition that such non-financial business group companies will not exercise voting rights in respect of such shares in excess of the 4% limit. In addition, any person (whether a Korean national or a foreigner), with the exception of non-financial business group companies described above, may also acquire in excess of 10% of total voting shares issued and outstanding of a financial holding company which controls national bank, provided that an approval from the Financial Services Commission is obtained in instances where the total holding exceeds 10% (or 15% in the case of a financial holding company controlling regional banks only), 25% or 33% of the total voting shares issued and outstanding of such bank holding company.

Non-financial business group companies are defined under the Financial Holding Companies Act as companies, which include:

- (i) any same shareholder group with aggregate net assets of all non-financial business companies belonging to such group of not less than 25% of the aggregate net assets of all members of such group;
- (ii) any same shareholder group with aggregate assets of all non-financial business companies belonging to such group of not less than ₩2 trillion;
- (iii) any mutual fund in which a same shareholder group identified in item (i) or (ii) above holds more than 4% of the total shares issued and outstanding of such mutual fund;
- (iv) any private equity fund (x) which has a partner with limited liability that falls under item (i), (ii) or (iii) above and holds equity equivalent to 10% or greater of the total amount invested by the private equity fund, (y) which has a partner with unlimited liability that falls under item (i), (ii) or (iii) above or (z) whose affiliates belonging to an enterprise group subject to limitation on mutual investment hold in aggregate equity equivalent to 30% or greater of the total amount invested by such private equity fund; or
- (v) any investment purpose company in which a private equity fund that falls under item (iv) above acquires and holds no less than 4% of such company's shares or equity or exercises de-facto influence on such company's significant managerial matters.

The Act on Corporate Governance of Financial Companies

The Act on Corporate Governance of Financial Companies came into effect as of August 1, 2016. The Act was enacted to address calls for strengthened regulations on corporate governance of financial companies and to serve as a uniform regulation on corporate governance matters applicable to all financial companies in place of the separate regulations for each sector that existed. The Act contains several key measures, including, but not limited, to (i) condition of eligibility of officers of financial companies and standards for determining whether financial companies' officers may hold concurrent positions in other companies, (ii) standards for composition and operation of board of directors, (iii) standards for establishment, composition and operation of committees of the board of

directors, (iv) internal control and risk management, (v) requirements and procedures for the approval of a change of major shareholders and (vi) special regulations for rights of minority shareholders of financial companies.

Financial Investment Services and Capital Markets Act

General

The Financial Investment Services and Capital Markets Act categorizes capital markets-related business into six different functions, as follows:

dealing (trading and underwriting of financial investment products (as defined below));

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brokerage (brokerage of financial investment products);

collective investment (establishment of collective investment schemes and the management thereof);

investment advice;

discretionary investment management; and

trusts (together with the five business set forth above, the Financial Investment Businesses).

Accordingly, all financial business relating to financial investment products are reclassified as one or more of the Financial Investment Businesses described above, and financial institutions are subject to the regulations applicable to their relevant Financial Investment Businesses, irrespective of the type of the financial institution it is. For example, under the Financial Investment Services and Capital Markets Act, derivative businesses conducted by securities companies and future companies will be subject to the same regulations under the Financial Investment Services and Capital Markets Act, at least in principle.

The banking business and insurance business are not subject to the Financial Investment Services and Capital Markets Act and will continue to be regulated under separate laws; provided, however, that they may become subject to the Financial Investment Services and Capital Markets Act if their activities involve any financial investment businesses requiring a license based on the Financial Investment Services and Capital Markets Act.

Comprehensive Definition of Financial Investment Products

In an effort to encompass the various types of securities and derivative products available in the capital markets, the Financial Investment Services and Capital Markets Act sets forth a comprehensive term financial investment products, defined to mean all financial products with a risk of loss in the invested amount (in contrast to deposits, which are not financial investment products for which the invested amount is protected or preserved). Financial investment products are classified into two major categories: (i) securities (relating to financial investment products where the risk of loss is limited to the invested amount) and (ii) derivatives (relating to financial investment products where the risk of loss may exceed the invested amount). As a result of the general and open-ended manner in which financial investment products are defined, any future financial product could potentially fall under the definition of financial investment products, which would enable Financial Investment Companies (as defined below) to handle a broader range of financial products. Under the Financial Investment Services and Capital Markets Act, securities companies, asset management companies, futures companies and other entities engaging in any Financial Investment Business are classified as Financial Investment Companies.

License System

Financial Investment Companies are able to choose what Financial Investment Business to engage in (through the check the box method set forth in the relevant license application), by specifying the desired (i) Financial Investment Business, (ii) financial investment product and (iii) target customers to which financial investment products may be sold (namely, general investors or professional investors). Licenses will be issued under the specific business sub-categories described above. For example, it would be possible for a Financial Investment Company to obtain a license to engage in the Financial Investment Business of (i) dealing (ii) over-the-counter derivatives products

(iii) only with professional investors.

Expanded Business Scope of Financial Investment Companies

Under the previous regulatory regime in Korea, it was difficult for a financial institution to explore a new line of business or expand upon its existing line of business. For example, a financial institution licensed as a securities company generally could not engage in the asset management business. In contrast, under the Financial

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Investment Services and Capital Markets Act, pursuant to the integration of its current business involving financial investment products into a single Financial Investment Business, a licensed Financial Investment Company is permitted to engage in all types of Financial Investment Businesses, subject to compliance with the relevant regulations, for example, maintaining an adequate Chinese Wall, to the extent required. As to incidental businesses (i.e., a financial related business which is not a Financial Investment Business), the Financial Investment Services and Capital Markets Act generally allows a Financial Investment Company to freely engage in such incidental businesses by shifting away from the previous system of permitting only the listed activities towards a more comprehensive system. In addition, a Financial Investment Company is permitted (i) to outsource marketing activities by contracting with introducing brokers that are individuals but not employees of the Financial Investment Company, (ii) to engage in foreign exchange business related to their Financial Investment Business and (iii) to participate in the settlement network, pursuant to an agreement among the settlement network participants.

Improvement in Investor Protection Mechanism

While the Financial Investment Services and Capital Markets Act broadens the scope of financial businesses in which financial institutions are permitted to engage, a more rigorous investor-protection mechanism is imposed upon Financial Investment Companies dealing in financial investment products. The Financial Investment Services and Capital Markets Act makes a distinction between general investors and sophisticated investors and provides new or enhanced protections to general investors. For instance, the Financial Investment Services and Capital Markets Act expressly provides for strict know-your-customer rules for general investors and imposes an obligation on Financial Investment Companies that they should market financial investment products suitable to each general investor considering his or her personal attributes, including investment objective, net worth, and investment experience. Under the Financial Investment Services and Capital Markets Act, a Financial Investment Company can be held liable if a general investor proves (i) damages or losses relating to such general investor's investment in financial investment products solicited by such Financial Investment Company and (ii) absence of explanation, false explanation, or omission of material fact (without having to prove fault or causation). In case there are any conflicts of interest between the Financial Investment Companies and investors, the Financial Investment Services and Capital Markets Act expressly requires (i) disclosure of any conflict of interest to investors and (ii) mitigation of conflicts of interest to a comfortable level or abstention from the relevant transaction.

Other Regulatory Changes Related to Securities and Investments

The Financial Investment Services and Capital Markets Act brought changes to various rules in securities regulations including those relating to public disclosure, insider trading and proxy contests, which had previously been governed by the Securities and Exchange Act. For example, the 5% and 10% reporting obligations under the Securities and Exchange Act have become more stringent under the Financial Investment Services and Capital Markets Act. For instance, the numbers of events requiring an investor to update its 5% report have increased under the Financial Investment Services and Capital Markets Act. Previously, only a change in the shareholding of 1% or more or in the purpose of shareholding (such as an intention to influence management) could trigger the obligation to update the 5% report. The Government has issued detailed regulations stipulating additional events requiring updates to 5% reports, such as the change in the type of holding and change in any major aspect of the relevant contract. As for the 10% report filing obligation, the initial filing is expected to be required to be made within five business days of the date of the event triggering the 10% reporting obligation, compared to 10 calendar days under the previous law. The due date for reporting a subsequent change after the initial 10% report filing has been reduced from the 10th day of the first month immediately following the month in which such change took place to five business days of the date of such change. Under the previous law, there had been a limitation on the type of investment vehicles that could be used in a collective investment scheme (namely, to trusts and corporations), the type of funds that could be used for collective investments, and the types of assets and investment securities a fund could invest in. However, the Financial

Investment Services and Capital Markets Act significantly liberalizes these restrictions, permitting all legal entities, including limited

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liability companies or partnerships, to be used for the purpose of collective investments, allowing the formation of fund complexes and permitting investment funds to invest in a wide variety of different assets and investment instruments.

Principal Regulations Applicable to Banks

General

The banking system in Korea is governed by the Banking Act and the Bank of Korea Act of 1950, as amended (the Bank of Korea Act). In addition, Korean banks are subject to the regulations and supervision of the Bank of Korea, the Bank of Korea's Monetary Policy Committee, the Financial Services Commission and its executive body, the Financial Supervisory Service.

The Bank of Korea, established in June 1950 under the Bank of Korea Act, performs the customary functions of a central bank. It seeks to contribute to the sound development of the national economy by price stabilization through establishing and implementing efficient monetary and credit policies. The Bank of Korea acts under instructions of the Monetary Policy Committee, the supreme policy-making body of the Bank of Korea.

Under the Bank of Korea Act, the Monetary Policy Committee's primary responsibilities are to formulate monetary and credit policies and to determine the operations, management and administration of the Bank of Korea. The Financial Services Commission, established on April 1, 1998 as the Financial Supervisory Commission and later changed its name to the Financial Services Commission on March 3, 2008, regulates commercial banks pursuant to the Banking Act, including establishing guidelines on capital adequacy of commercial banks, and promulgates regulations relating to supervision of banks. Furthermore, pursuant to the Amendment to the Government Organization Act and the Banking Act on May 24, 1999, the Financial Services Commission, instead of the Ministry of Strategy and Finance, now regulates market entry into the banking business.

The Financial Supervisory Service is subject to the instructions and directives of the Financial Services Commission and carries out supervision and examination of commercial banks. In particular, the Financial Supervisory Service sets requirements both for the prudent control of liquidity and for capital adequacy and establishes reporting requirements pursuant to the authority delegated to it under the Financial Services Commission regulations, pursuant to which banks are required to submit annual reports on financial performance and shareholdings, regular reports on management strategy and non-performing loans, including write-offs, and management of problem companies and plans for the settlement of bad loans.

Under the Banking Act, approval to commence a commercial banking business or a long-term financing business must be obtained from the Financial Services Commission. Commercial banking business is defined as the lending of funds acquired predominantly from the acceptance of deposits for a period not exceeding one year or, subject to the limitation established by the Financial Services Commission, for a period between one year and three years. Long-term financing business is defined as the lending, for periods in excess of one year, of funds acquired predominantly from paid-in capital, reserves or other retained earnings, the acceptance of deposits with maturities of at least one year, or the issuance of bonds or other securities. A bank wishing to enter any business other than commercial banking and long-term financing businesses, such as the trust business, must obtain approval from the Financial Services Commission. Approval to merge with any other banking institution, to liquidate, to close a banking business or to transfer all or a part of a business must also be obtained from the Financial Services Commission.

If the Financial Services Commission deems a bank's financial condition to be unsound or if a bank fails to meet the applicable capital adequacy ratio set forth under Korean law, the Financial Services Commission may order, among

others,:

capital increases or reductions;

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suspension of officers performance of their duties and appointment of custodians;

stock cancellations or consolidations;

transfers of a part or all of business;

sale of assets and bar on acquisition of high-risk assets;

closures or downsizing of branch offices or workforce;

mergers or becoming a subsidiary under the Financial Holding Companies Act of a financial holding company;

acquisition of a bank by a third party;

suspensions of a part or all of business operation; or

assignments of contractual rights and obligations relating to financial transactions.

Capital Adequacy

The Banking Act requires nationwide banks to maintain a minimum paid-in capital of ₩100 billion and regional banks to maintain a minimum paid-in capital of ₩25 billion.

In addition to minimum capital requirements, all banks including foreign bank branches in Korea are required to maintain a prescribed solvency position. A bank must also set aside as its legal reserve an amount equal to at least 10% of its net profits after tax each time it pays dividends on net profits earned until such time when the reserve equals the amount of its total paid-in capital.

Under the Banking Act, the capital of a bank is divided into two categories: Tier I and Tier II capital. Tier I capital (typically referred to as Core Capital) consists of (i) the capital that can absorb losses incurred by a bank such as capital, capital surplus and earned surplus generated from the issuance of common shares (collectively, Common Stock Capital), and (ii) the capital that can absorb the losses of a bank after depletion of the Common Stock Capital such as capital and capital surplus generated from the issuance of Tier I capital instruments satisfying the requirements designated by the Financial Supervisory Service (collectively, Other Core Capital). Tier II capital (typically referred to as Supplementary Capital) represents the capital which is equivalent to, but not included in, the Core Capital and can absorb losses incurred upon the liquidation of a bank such as capital and capital surplus generated from the issuance of Tier II capital instruments satisfying the requirements designated by the Financial Supervisory Service and allowance for bad debts set aside for loans classified as normal or precautionary.

Under the Detailed Regulations on the Supervision of the Banking Business, Tier I capital instruments must satisfy, among others, the following requirements in order to be recognized as Other Core Capital:

- (i) the price for such instruments shall have been fully paid through the procedure for issuance, and the instruments shall be in a perpetual form with no cause triggering a step-up or redemption;
- (ii) such instruments shall be bound by a special agreement on being subordinate to depositors, general creditors and subordinated debt of the bank (referring to a special agreement under which subordinated creditors' right to claim payment shall take effect only after unsubordinated creditors' claims are fully paid, when bankruptcy or any similar incident occurs; hereinafter the same shall apply) but shall not fall within liabilities exceeding assets at the time when bankruptcy is declared under the Debtor Rehabilitation and Bankruptcy Act;
- (iii) the payment of dividends or interests shall be suspended from the date when the bank is designated as a insolvent financial institution under the Act on Structural Improvement of the Financial Industry of Korea or under the Depositor Protection act of Korea as applicable, or the Financial Supervisory

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Service takes measures under the Regulations on the Supervision of the Banking Business such as the managerial improvement recommendation, the managerial improvement request, the managerial improvement order and the emergency measures against the bank to the date when the above-mentioned event is removed;

- (iv) the payment of dividends or interests shall not be determined in connection with the credit rating of the bank;
- (v) the dividends may only be paid out of distributable income;
- (vi) the bank shall be able to revoke in its sole discretion the payment of dividends or interests at any time;
- (vii) the cancellation of paying dividends must not impose restrictions on the bank except in relation to dividends to common stockholders;
- (viii) the revocation of the payment of dividends or interests shall not be deemed as the event of defaults, and the bank shall be able to use in its sole discretion the amount which was revoked to pay as dividends or interests to redeem any other debts of the bank then due and payable;
- (ix) such instruments shall not be redeemed within five years from the issuance date and the bank shall be able to determine in its sole discretion whether it redeems such instruments even after five years from the issuance date, and the instruments shall not be subject to any condition that arouse investors' expectation to have the instruments redeemed or any condition that imposes a burden of redemption upon the issuing bank in fact;
- (x) the requirements prescribed in Appendix 3-5 (Trigger Events for Contingent Capital Securities) of the Detailed Enforcement Rules of Regulation on Supervision of Banking Business shall be satisfied;
- (xi) the bank or the person who has de facto control over the bank shall not purchase capital instruments or provide a purchaser of such securities with funds for the purchase by providing a collateral or guarantee for payment or by lending a loan, shall not raise the priority of its claims, legally or economically, for the price paid for the securities, and shall not provide a collateral or guarantee to the purchasers of the securities directly or via a related company; and
- (xii) such capital instruments shall have no condition that hinders the issuing bank's procurement or expansion of capital in the future.

Under the Detailed Regulations on the Supervision of the Banking Business, Tier II capital instruments must satisfy, among others, the following requirements in order to be recognized as Supplementary Capital:

- (i) the procedure for issuance shall have been completed, the price for such capital instruments shall have been fully paid, and the capital instruments shall be bound by a special agreement of subordination to deposits and ordinary debts;
- (ii) the maturity shall not be less than five years from the issuance date, and Tier II capital instruments shall not be redeemed within five years from the issuance date;
- (iii) there is no condition to promote the bank to redeem such capital instruments such as a step-up provision, and the bank shall be able to determine in its sole discretion whether to redeem such instruments prior to the maturity date, and the instruments shall not be subject to any condition that arouse investors' expectation to have the instruments redeemed or any condition that imposes a burden of redemption upon the issuing bank in fact;
- (iv) other than the case where the bank is subject to the bankruptcy or liquidation, the holder of Tier II capital instruments shall not have the right to require bank to pay the principal or interests of such instruments earlier than the original due date thereof;
- (v) the payment of dividends or interests shall not be determined in connection with the credit rating of the bank;

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- (vi) the requirements prescribed in Appendix 3-5 (Trigger Events for Contingent Capital Securities) of the Detailed Enforcement Rules of Regulation on Supervision of Banking Business shall be satisfied;
- (vii) the bank or any person or entity over which the bank exercises substantial control shall not purchase the capital instruments issued by such bank nor provide, directly or indirectly, the funds to acquire the capital instruments by providing any collateral or guaranty or loan in favor of the person or entity which tries to acquire such instruments; and
- (viii) the bank shall not enhance, legally or economically, the payment priority of the capital instruments, nor provide, directly or indirectly through its affiliated company, any collateral or guaranty in favor of the person or entity which acquires such instruments.

All banks must meet standards regarding minimum ratios of Tier I and Tier II capital (less any capital deductions) to risk-weighted assets, determined in accordance with the Financial Services Commission requirements that have been formulated based on the BIS Standards. These standards were adopted and became effective in 1996. Under these regulations, all domestic banks and foreign bank branches are required to meet the minimum ratio of Tier I and Tier II capital (less any capital deductions) to risk-weighted assets of 8%.

Furthermore, as Basel III was adopted and is being implemented in stages in Korea since December 1, 2013, all banks in Korea are required to meet minimum ratios of common stock capital (less any capital deductions) and core capital (less any capital deductions) to risk-weighted assets as set out in the Regulation on the Supervision of the Banking Business. The required minimum ratio of common stock capital (less any capital deductions) to risk-weighted assets is 4.5%, and the required minimum ratio of core capital (less any capital deductions) to risk-weighted assets is 6.0%. In addition, additional capital conservation buffer requirements have been implemented in stages from January 1, 2016 to January 1, 2019. Under such requirements, all banks in Korea are required to maintain a capital conservation buffer of 0.625% from January 1, 2016, which was gradually increased to 1.25% on January 1, 2017, 1.875% on January 1, 2018 and 2.5% on January 1, 2019.

Under the Regulation on the Supervision of the Banking Business and the Detailed Regulations promulgated thereunder, Korean banks apply the following risk-weight ratios in respect of their home mortgage loans:

- (i) for those banks adopting a standardized approach for calculating credit risk-weighted assets, the risk-weight ratio of 35% (only in the case where the loan is fully secured by a first ranking mortgage); and
- (ii) for those banks adopting an internal ratings-based approach for calculating credit risk-weighted assets, a risk-weight ratio calculated with reference to the probability of default, loss given default and exposure at default, each as defined in the Detailed Regulations on the Supervision of the Banking Business.

In Korea, Basel II, a convention entered into by the Basel committee in June 2004 for the purpose of improving risk management and increasing capital adequacy of banks, was implemented in January 2008. Pursuant to Basel II, operational risk, such as inadequate procedure, loss risk by employees, internal system, occurrence of unexpected event, as well as credit risk and market risk, is taken into account in calculating the risk-weighted assets, in addition to maintaining the capital adequacy ratio of 8% for banks. Under Basel II, the capital requirements for credit risk can be calculated by the internal rating based (IRB) approach or the standardized approach.

Under the standardized approach, a home mortgage loan fully secured by a first ranking mortgage over the residential property is risk-weighted at 35%, but certain home mortgage loans with loan-to-value ratio exceeding 60% are risk weighted at 50% pursuant to an amendment of the Detailed Regulation on the Supervision of the Banking Business on December 31, 2018.

Under the Regulation on the Supervision of the Banking Business, banks shall set aside allowances for bad debts for each class of soundness in accordance with IFRS as adopted by Korea. If the amount for each class of

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soundness calculated in accordance with the following criteria exceeds the allowances for bad debts set aside, the excess amount shall, at the time of each settlement of accounts, be set aside as regulatory reserve for credit losses.

0.85% of normal credits (or 0.9% in the case of normal credits comprising loans to certain industries including construction, retail and wholesale sales, accommodations, restaurant, real estate and lease, 1.0% in the case of normal credits comprising loans to individuals and households, 2.5% in the case of normal credits comprising credit card loans and 1.1% in the case of normal credits comprising other credit card receivables);

7% of precautionary credits (or 10% in the case of precautionary credits comprising loans to individuals and households, 50% in the case of precautionary credits comprising credit card loans and 40% in the case of precautionary credits comprising other credit card receivables);

20% of substandard credits (or 10% in the case of substandard credits comprising assets for which the bank has the right to receive payment in priority pursuant to the Corporate Restructuring Promotion Act of Korea or Paragraph 180, Subparagraph 2 of the Debtor Rehabilitation and Bankruptcy Act of Korea (the Priority Assets), 65% in the case of substandard credits comprising credit card loans and 60% in the case of substandard credits comprising other credit card receivables);

50% of doubtful credits (or 25% in the case of doubtful credits comprising Priority Assets, 55% in the case of doubtful credits comprising loans to individuals and households and 75% in the case of doubtful credits comprising credit card loans and other credit card receivables); and

100% of estimated loss credits (or 50% in the case of estimated loss credits comprising of Priority Assets). Furthermore, under the Regulation on the Supervision of the Banking Business, banks must maintain allowances for bad debts and regulatory reserve for credit losses in respect of their confirmed guarantees (including confirmed acceptances) and outstanding non-used credit lines in an aggregate amount calculated at the same rates applicable to normal, precautionary, substandard, doubtful and estimated loss credits comprising their outstanding loans and other credits as set forth above.

As of January 1, 2016, the Financial Services Commission implemented Basel III requirements relating to accumulation of additional capital for systemically important banks and countercyclical capital buffer requirements. Each year, the Financial Services Commission may designate banks with significant influence (based on size and connectivity with other financial institutions) on the domestic financial system as a domestic systemically important bank and require the accumulation of additional capital in accordance with the highest of: (i) ratio of common equity capital to risk-weighted assets, ranging from 0.0% to 2.0%, depending on the systematic importance evaluation score, (ii) if the bank's holding company is a domestic systemically important bank holding company, the capital ratio corresponding to the additional capital required for the bank holding company under the Financial Holding Company Supervision Regulations, or (iii) if the bank is also a global systemically important bank, as defined by the Basel Committee, the capital ratio as required by the Basel Committee. Shinhan Financial Group and Shinhan Bank were selected as a domestic systemically important bank holding company and domestic systemically important bank, respectively, from 2016 through 2019. According to the instructions of the Financial Services Commission, domestic

systematically important banks including Shinhan Bank have been required to maintain an additional capital buffer of 0.25% since January 1, 2016, with such buffer increased by 0.25% annually to reach 1.00% as of January 1, 2019. The Financial Services Commission may also, upon quarterly review, determine and require banks to accumulate a required level of countercyclical capital buffer within the range of 0% to 2.5% of risk-weighted assets, taking into account factors such as the degree of increase in credit relative to the gross domestic product. Since March 2016, the Financial Services Commission has maintained countercyclical capital buffer requirements at 0%, and the Financial Supervisory Service has maintained the countercyclical capital buffer requirement at 0% for the first quarter of 2019. In addition, the Regulation on the Supervision of the Banking Business is expected to be amended during

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2019 such that the countercyclical capital buffer requirement also takes into account the increase of credit in the retail sector. The Detailed Regulation on the Supervision of the Banking Business was also amended on June 30, 2018 to add concentration of risk in the retail sector as an additional criteria when the Financial Supervisory Service evaluates the risk management systems of Korean banks.

Liquidity

All banks are required to match the maturities of their assets and liabilities in accordance with the Banking Act in order to ensure adequate liquidity. Banks may not invest in excess of an amount exceeding 100% of their Tier I and Tier II capital (less any capital deductions) in stocks and other securities with a period remaining to maturity of over three years. However, this restriction does not apply to government bonds or to Monetary Stabilization Bonds issued by the Bank of Korea.

The Financial Services Commission requires Korean banks to maintain a liquidity coverage ratio of at least 90.0% as of January 1, 2017, 95.0% as of January 1, 2018 and 100.0% as of January 1, 2019. The Financial Services Commission defines liquidity coverage ratio as high quality liquid assets that can be immediately converted into cash with little or no loss in value, as divided by the net amount of cash outflow for the next 30 day period, under the stress level established according to the liquidity coverage ratio, pursuant to the Regulation on the Supervision of the Banking Business, which was amended as of June 28, 2016 to implement the liquidity coverage ratio requirements under Basel III.

With respect to foreign currency liquidity coverage ratio, the Regulation on the Supervision of the Banking Business requires that financial institutions dealing with foreign exchange affairs (i.e., banks) whose foreign-currency denominated liabilities are equal to or greater than US\$500 million or 5% of its total liabilities, as of the end of the immediately preceding half-year period, maintain a foreign currency liquidity coverage ratio of 60% or higher beginning January 1, 2017, 70% or higher beginning January 1, 2018 and 80% or higher beginning January 1, 2019. The term foreign currency liquidity coverage ratio means the ratio of high-liquidity assets to the net cash outflow in respect of foreign-currency denominated assets and liabilities for the next 30 days. In the case of financial institutions dealing with foreign exchange affairs whose foreign-currency denominated liabilities are less than US\$500 million and less than 5% of its total liabilities, as of the end of the immediately preceding half-year period, the following ratios shall be maintained and foreign-currency denominated assets and liabilities shall be categorized and managed according to such different remaining maturities: (i) the ratio of assets for which remaining maturities are less than three months to liabilities for which remaining maturities are less than three months shall be at least 85%, and (ii) the assets for which remaining maturities are less than one month shall not exceeded liabilities for which the remaining maturities are less than one month by more than 10%.

The Monetary Policy Committee of the Bank of Korea is authorized to fix and alter minimum reserve requirements that banks must maintain against their deposit liabilities. The current minimum reserve ratio is 7.0% of average balances for Won-denominated demand deposits outstanding, 0.0% of average balances for Won-denominated employee asset establishment savings deposits, employee long-term savings deposits, employee house purchase savings deposits, long-term house purchase savings deposits, household long-term savings deposits and employee preferential savings deposits outstanding and 2.0% of average balances for Won-denominated time and savings deposits, mutual installments, housing installments and certificates of deposit outstanding. For foreign currency deposit liabilities, a 2.0% minimum reserve ratio is applied to savings deposits outstanding and a 7.0% minimum reserve ratio is applied to demand deposits, while a 1.0% minimum reserve ratio is applied for offshore accounts, immigrant accounts and resident accounts opened by foreign exchange banks.

Loan-to-Deposit Ratio

In December 2009, the Financial Supervisory Service announced that it would introduce a new set of regulations on the loan-to-deposit ratio by amending the Regulation on the Supervision of the Banking Business

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upon its determination that the overall liquidity of banks in Korea had become unstable due to the ongoing increase in the loan-to-deposit ratio resulting from banks expanding their asset size too competitively by granting mortgages on houses and loans to small- and medium-sized enterprises over the last couple of years. The Regulation on the Supervision of the Banking Business, which was amended as of August 19, 2010 and December 26, 2014 and took effect on January 1, 2014 and January 1, 2015, respectively, requires banks with Won-denominated loans of not less than ₩2 trillion in value as of the last month of the immediately preceding quarter to maintain a ratio of Won-denominated loans (excluding certain types of loans using funds borrowed from Korea Development Bank or the Korean government or loans made under certain operational rules of Korea Federation of Banks) to Won-denominated deposits (excluding certificates of deposit) and the balance of the covered bonds under the Act on Issuance of Covered Bonds, the maturity of which is not less than five years (only in case when such financing from the issuance of covered bonds is used in Won currency and up to 1% of Won-denominated deposits) not more than 1:1. Shinhan Bank's loan-to-deposit ratio as of December 31, 2018 was 99.2%, based on monthly average balances.

Currently, in calculating the loan to deposit ratio, there is no differentiation between retail loans and corporate loans. However, the Regulation on the Supervision of the Banking Business was amended on July 12, 2018 to provide that, beginning on January 1, 2020, in calculating such loan to deposit ratio, retail loans and corporate loans will be weighed differently, with retail loans subject to a multiple of 115% and corporate loans (excluding loans to SOHOs) subject to a multiple of 85%, thereby increasing the impact of retail loans and reducing the impact of corporate loans in calculating such ratio.

Financial Exposure to Any Single Customer and Major Shareholders

Under the Banking Act, the sum of material credit exposures by a bank, namely, the total sum of its credits to single individuals, legal entities or persons sharing credit risk with such individuals or legal entities such as companies belonging to the same enterprise groups as defined under the Monopoly Regulation and Fair Trade Act that exceed 10% of the sum of Tier I and Tier II capital (less any capital deductions), must not exceed five times the sum of Tier I and Tier II capital (less any capital deductions), subject to certain exceptions. Subject to certain exceptions, no bank is permitted to extend credit (including loans, guarantees, purchases of securities (only in the nature of a credit) and such other transactions which directly or indirectly create credit risk) in excess of 20% of the sum of Tier I and Tier II capital (less any capital deductions) to an individual or a legal entity, and no bank may grant credit in excess of 25% of the sum of Tier I and Tier II capital (less any capital deductions) to individuals, legal entities and companies that belong to the same enterprise group as defined in the Monopoly Regulations and Fair Trade Act.

Under the Banking Act, certain restrictions apply to extending credits to a major shareholder. The definition of a major shareholder is as follows:

a shareholder holding (together with persons who have a special relationship with such shareholder as defined in the Presidential Decree of the Banking Act) in excess of 10% (or in the case of regional banks, 15%) in the aggregate of the bank's total issued and outstanding voting shares; or

a shareholder holding (together with persons who have a special relationship with such shareholder as defined in the Presidential Decree of the Banking Act) more than 4% in the aggregate of the total issued and outstanding voting shares of a bank (other than a regional bank), where such shareholder is the largest shareholder or is able to actually control the major business affairs of the bank, for example, through appointment and dismissal of the chief executive officer or of the majority of the executives.

Under the Banking Act, banks are prohibited from extending credits in the amount greater than the lesser of (1) 25% of the sum of such bank's Tier I and Tier II capital (less any capital deductions) and (2) the relevant major shareholder's shareholding ratio multiplied by the sum of the bank's Tier I and Tier II capital (less any capital deductions) to a major shareholder (together with persons who have special relationship with such major shareholder as defined in the Presidential Decree of the Banking Act). Also, no bank is allowed to grant credit to

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its major shareholders in the aggregate in excess of 25% of its Tier I and Tier II capital (less any capital deductions).

When managing the credit risk of banks, among the methods for providing credit support by banks, a loan agreement, a purchase agreement for asset-backed commercial papers, purchase of subordinate beneficiary certificates, and assumption of liability by providing warranty against default under asset-backed securitization are examples of creating financial exposure to banks.

Interest Rates

Korean banks remain dependent on the acceptance of deposits as their primary source of funds. Currently, there are no legal controls on interest rates on bank loans in Korea, except for the cap of 24.0% per annum on interest rates under the Act on Lending Business.

Lending to Small- and Medium-sized Enterprises

When commercial banks (including Shinhan Bank) make Won-denominated loans to certain startup, venture, innovative and other strategic small- and medium-sized enterprises specially designated by the Bank of Korea as priority borrowers, the Bank of Korea generally provides the underlying funding to these banks at concessionary rates for up to 50% of all such loans made to the priority borrowers subject to a monthly-adjusted limit prescribed by the Bank of Korea (currently ₩5.9 trillion) provided that if such loans to priority borrowers made by all commercial banks exceed the prescribed limit for a given month, the concessionary funding for the following month will be allocated to each commercial bank in proportion to such bank's lending to priority borrowers two months prior to the time of such allocation, which has the effect that, if a particular bank lags other banks in making loans to priority borrowers, the amount of funding such bank can receive from the Bank of Korea at concessionary rates will be proportionately reduced.

Disclosure of Management Performance

For the purpose of enforcing mandatory disclosure of management performance so that the general public, especially depositors and stockholders, will be in a better position to monitor banks, the Financial Services Commission requires commercial banks to disclose certain matters as follows:

loans bearing no profit made to a single business group in an amount exceeding 10% of the sum of the bank's Tier I and Tier II capital (less any capital deductions) as of the end of the previous month (where the loan exposure to such borrower is calculated pursuant to the criteria under the Detailed Regulations promulgated under the Regulation on the Supervision of the Banking Business), except where the loan exposure to a single business group is not more than ₩4 billion; and

any loss due to court judgments or similar decisions in civil proceedings in an amount exceeding 1% of the sum of the bank's Tier I and Tier II capital (less any capital deductions) as of the end of the previous month, except where the loss is not more than ₩1 billion.

Restrictions on Lending

According to the Banking Act, commercial banks are prohibited from making any of the following categories of loans:

loans made directly or indirectly on the pledge of a bank's own shares;

loans made directly or indirectly to enable a natural or a legal person to buy the bank's own shares;

loans made to any of the bank's officers or employees other than de minimis loans of up to (1) ~~₩~~20 million in the case of a general loan, (2) ~~₩~~50 million in the case of a general loan plus a housing loan, or (3) ~~₩~~60 million in the aggregate for general loans, housing loans and loans to pay damages arising from wrongful acts of employees in financial transactions;

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credit (including loans) secured by a pledge of shares of a subsidiary corporation of the bank or to enable a natural or juridical person to buy shares of a subsidiary corporation of the bank; and

loans to any officers or employees of a subsidiary corporation of the bank, other than general loans of up to ₩20 million or general and housing loans of up to ₩50 million in the aggregate.

Recent Regulations Relating to Retail Household Loans

The Financial Services Commission implemented a number of changes in recent years to the mechanisms by which a bank evaluates and report its retail household loan balances and has proposed implementing further changes. In order to rationalize the regulations on the housing loans, the Financial Services Commission and the Financial Supervisory Service provided administrative instructions in July 2014 with effect from August 1, 2014, which have been extended and amended several times, that all financial institutions including banks under the Banking Act were subject to the maximum loan-to-value ratio of 70% (irrespective of the location of the property, subject to certain exceptions) and the maximum debt-to-income ratio of 60% (only in respect of apartment units located in the greater Seoul metropolitan area, subject to certain exceptions). However, due to a rapid increase in the volume of loans secured by homes and other forms of housing, the Financial Services Commission and the Financial Supervisory Service implemented the following regulations designed to curtail extension of new or refinanced loans secured by housing by respectively amending the Regulation on the Supervision of the Banking Business and the Detailed Regulation on the Supervision of the Banking Business to replace the above administrative instructions in August 2017:

as to loans secured by collateral of housing located nationwide, the loan-to-value ratio (the aggregate principal amount of loans secured by such collateral over the appraised value of the collateral) shall not exceed 70%;

as to loans secured by collateral of housing located in adjustment targeted areas, as designated by the government, the loan-to-value ratio for loans should not exceed 60%;

as to loans secured by collateral of housing located in overheated speculative districts or speculative districts, as designated by the government, the loan-to-value ratio for loans should not exceed 40%;

as to loans secured by collateral of housing to be extended to a low income household satisfying certain requirements such as (i) in respect of the housing located in adjustment targeted areas, the annual income of households being less than ₩60 million (and ₩70 million for first home buyers) and the value of housing being less than ₩500 million, and (ii) in respect of the housing located in overheated speculative districts or speculative districts, the annual income of households being less than ₩70 million (and ₩80 million for first home buyers) and the value of housing being less than ₩600 million, the maximum loan-to-value ratio is 10% higher than the applicable loan-to-value ratios of 60% in adjustment targeted areas and 40% in overheated speculative districts or speculative districts described above;

as to loans secured by collateral of housing to be extended to a household which has already received one or more loans secured by collateral of housing, the maximum loan-to-value ratio is 10% lower than the

applicable loan-to-value ratios of 60% in adjustment targeted areas and 40% in overheated speculative districts or speculative districts described above;

as to loans secured by collateral of housing (limited to an apartment) located in the greater Seoul metropolitan area, the borrower's debt-to-income ratio (calculated as (i) the aggregate annual total payment amount of (x) the principal of and interest on loans secured by such housing and existing mortgage and home equity loans and (y) the interest on other loans of the borrower over (ii) the borrower's annual income) shall not exceed 60%;

as to loans secured by collateral of housing (limited to an apartment) located in adjustment targeted areas, as designated by the government, the borrower's debt-to-income ratio shall not exceed 50%;

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as to loans secured by collateral of housing located in overheated speculative districts or speculative districts, as designated by the government, the borrower's debt-to-income ratio shall not exceed 40%;

as to loans secured by collateral of housing to be extended to a low income household, the maximum debt-to-income ratio is 10% higher than the applicable debt-to-income ratios of 50% in adjustment targeted areas and 40% in overheated speculative districts or speculative districts described above;

as to loans secured by collateral of housing to be extended to a household which has already received one or more loans secured by collateral of housing, the maximum debt-to-income ratio is 10% lower than the applicable debt-to-income ratios of 50% in adjustment targeted areas and 40% in overheated speculative districts or speculative districts described above;

as to apartments located in speculative districts, as designated by the government, a household is permitted to have only one new loan secured by such apartment; and

where a household has two or more loans secured by apartments located in speculative districts, as designated by the government, the loan with the earliest maturity date must be repaid first and the number of loans must be eventually reduced to one.

As housing prices in the greater Seoul metropolitan area continued to rise despite the above measures, on September 13, 2018, the Government announced a more robust policy to curb housing prices. Effective from September 14, 2018, these measures include, among other things, tighter regulations on maximum loan-to-value ratios in overheated speculative districts, speculative districts and adjustment targeted areas (collectively, the regulated areas), under which the maximum loan-to-value ratio applicable to owners of single or multiple residential units attempting to purchase an additional residential unit located in any of the regulated areas using a mortgage loan will be nil with certain exceptions applicable only to owners of a single residential unit attempting to purchase an additional residential unit. The maximum loan-to-value ratio will be also nil, with certain exceptions, in the case of purchases of high value residential units (for which the declared value is more than ₩900 million) located in any of the regulated areas not being made for the purpose of actual residence.

Restrictions on Investments in Property

A bank may possess real estate property only to the extent necessary for conducting its business; provided that the aggregate value of such real estate property must not exceed 60% of the sum of its Tier I and Tier II capital (less any capital deductions). Any property acquired by a bank (1) through the exercise of its rights as a secured party or (2) the acquisition of which is prohibited by the Banking Act must be disposed of within three years, unless otherwise provided by the regulations thereunder.

Restrictions on Shareholdings in Other Companies

Under the Banking Act, a bank may not own more than 15% of shares outstanding with voting rights of another company, except where, among other reasons:

the company issuing such shares is engaged in a business that falls under the category of financial businesses set forth by the Financial Services Commission (including companies which business purpose is to own equity interests in private equity funds); or

the acquisition of shares by the bank is necessary for corporate restructuring of such company and is approved by the Financial Services Commission.

In the above cases, a bank must satisfy either of the following requirements:

the total investment in companies in which the bank owns more than 15% of the outstanding shares with voting rights does not exceed 20% of the sum of Tier I and Tier II capital (less any capital deductions); or

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the total investment in companies in which the bank owns more than 15% of the outstanding shares with voting rights does not exceed 30% of the sum of Tier I and Tier II capital (less any capital deductions) where the acquisition satisfies the requirements determined by the Financial Services Commission.

The Banking Act provides that a bank using its bank accounts and its trust accounts is not permitted to acquire the shares issued by the Major Shareholder of such bank in excess of an amount equal to 1% of the sum of Tier I and Tier II capital (less any capital deductions).

Restrictions on Bank Ownership

Under the Banking Act, subject to certain exceptions, a single shareholder and persons who stand in a special relationship with such shareholder (as described in the Presidential Decree to the Banking Act) may acquire beneficial ownership of up to 10% of a national bank's total issued and outstanding shares with voting rights and up to 15% of a regional bank's total issued and outstanding shares with voting rights. The government, the Korea Deposit Insurance Corporation and financial holding companies qualifying under the Financial Holding Companies Act are not subject to such ceilings. However, non-financial business group companies—namely, (1) any same shareholder group with an aggregate net assets of all non-financial companies belonging to such group of not less than 25% of the aggregate net assets of all corporations that are members of such group; (2) any group with aggregate assets of all non-financial companies belonging to such group of not less than ₩2 trillion; (3) any mutual fund in which a same shareholder group, as described in items (1) and (2) above, owns more than 4% of the total shares issued and outstanding; (4) a private equity fund (under the Financial Investment Services and Capital Markets Act) where (i) the general partner of such private equity fund, (ii) the limited partner whose equity holding ratio in such private equity fund is 10% or more, or (iii) the limited partners, being member companies of a single group of companies that belong to the same conglomerate as defined in the Monopoly Regulations and Fair Trade Act, whose aggregate equity holding ratio in such private equity fund is 30% or more falls under either of item (1) to (3) above; or (5) a special purpose company of a private equity fund where a private equity fund, as described in item (4) above, owns 4% or more of the special purpose company's issued and outstanding shares or has actual control over the major business affairs of the special purpose company through, for example, appointment and dismissal of the officers—may not acquire beneficial ownership of shares of a national bank in excess of 4% of such bank's outstanding voting shares, provided that such non-financial business group companies may acquire beneficial ownership of:

up to 10% of a national bank's outstanding voting shares with the approval of the Financial Services Commission under the condition that such non-financial group companies will not exercise voting rights in respect of such shares in excess of the 4% limit; and

in the event that a foreigner, as defined in the Foreign Investment Promotion Act, owns not less than 10% of a national bank's outstanding voting shares, up to 10% of such bank's outstanding voting shares without the approval of the Financial Services Commission, and in excess of 10%, 25% or 33% of such bank's outstanding voting shares, with the approval of the Financial Services Commission, up to the number of shares owned by such foreigner.

In addition, any person (whether a Korean national or a foreigner), with the exception of non-financial business group companies described above, may also acquire in excess of 10% of a national bank's total voting shares issued and outstanding, provided that an approval from the Financial Services Commission is obtained in instances where the total holding exceeds 10% (or 15% in the case of regional banks), 25% or 33% of the bank's total voting shares issued and outstanding.

Deposit Insurance System

The Depositor Protection Act provides, through a deposit insurance system, insurance for certain deposits of banks in Korea. Under the Depositor Protection Act, all banks governed by the Banking Act, including Shinhan

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Bank and Jeju Bank, are required to pay to the Korea Deposit Insurance Corporation an insurance premium on a quarterly basis at such rate as determined by the Presidential Decree to the Depositor Protection Act, which shall not exceed 0.5% of the bank's insurable deposits in any given year. The current insurance premium is 0.02% of insurable deposits for each quarter. If the Korea Deposit Insurance Corporation pays the insured amount, it will acquire the claims of the depositors within the payment amount. Under current rules, the Korea Deposit Insurance Corporation insures only up to a total of ₩50 million per an individual for deposits and interest in a single financial institution, regardless of when the deposits were made and the size of the deposits.

Trust Business

A bank that intends to enter into the trust business must obtain the approval of the Financial Services Commission. Trust activities of banks are governed by the Financial Investment Services and Capital Markets Act. Banks engaged in the banking business and trust business are subject to certain legal and accounting procedures requirements, including the following:

under the Banking Act, the Financial Investment Services and Capital Markets Act and the Trust Act, assets accepted in trust by a bank in Korea must be segregated from its other assets in the accounts of such bank; accordingly, banks engaged in the banking and trust businesses must maintain two separate accounts, the banking accounts and the trust accounts, and two separate sets of records which provide details of their banking and trust businesses, respectively; and

assets comprising the trust accounts are not available to depositors or other general creditors of such bank in the event the trustee is liquidated or is wound up.

In the event that a bank qualifies and operates as a collective investment business entity, a trustee, a custodian or a general office administrator under the Financial Investment Services and Capital Markets Act, it is required to establish relevant operation and management systems to prevent potential conflicts of interest among the banking business, the collective investment business, the trustee or custodian business and general office administration. These measures include:

prohibitions against officers, directors and employees of one particular business operation from serving as an officer, director and employee in another business operation, except where an officer or a director (1) serving in two or more business operations with no significant conflict of interest in accordance with the Presidential Decree on the Financial Investment Services and Capital Markets Act or (2) serving in a trustee business or a custodian business and simultaneously serving in a general office administrator business in accordance with the Financial Investment Services and Capital Markets Act;

prohibitions against the joint use or sharing of computer equipment or office equipment; and

prohibitions against the sharing of information by and among officers, directors and employees engaged in the different business operations.

A bank which qualifies and operates as a collective investment business entity may engage in the sale of beneficiary certificates of investment trusts which are managed by such bank. However, such bank is prohibited from engaging in the following activities:

acting as trustee of an investment trust managed by such bank;

purchasing with such bank's own funds beneficiary certificates of an investment trust managed by such bank;

using in its sales activities of other collective investment securities information relating to the trust property of an investment trust managed by such bank;

selling through other banks established under the Banking Act beneficiary certificates of an investment trust managed by such bank;

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establishing a short-term financial collective investment vehicle; and

establishing a mutual fund.

Laws and Regulations Governing Other Business Activities

To enter the foreign exchange business, a bank must register with the Minister of the Ministry of Strategy and Finance. The foreign exchange business is governed by the Foreign Exchange Transaction Law. To enter the securities business, a bank must obtain the approval of the Financial Services Commission. The securities business is governed by regulations under the Financial Investment Services and Capital Markets Act. Pursuant to the above-mentioned laws, banks are permitted to engage in the foreign exchange business and the underwriting business for government and other public bonds.

Recently, regulatory authorities are encouraging financial institutions to lower the ATM usage fees in order to decrease the financial expense burden on consumers. Further, in light of the increasing household debt, regulatory authorities are encouraging financial institutions to gradually increase the proportion of the principal of retail loans that are subject to the fixed interest rates from 14% in 2012 to 45% by 2017.

Principal Regulations Applicable to Credit Card Companies

General

Any person, including a bank, wishing to engage in the credit card business must obtain a license from the Financial Services Commission. In addition, in order to enter the credit card business, a bank must obtain a license from the Financial Services Commission (hereinafter, a bank which obtains such license is defined as licensed bank engaged in the credit card business). The credit card business is regulated and governed by the Specialized Credit Financial Business Act. Under the Specialized Credit Financial Business Act and regulations thereunder, a company in the same conglomerate group (as defined in the Monopoly Regulation and Fair Trade Act) may engage in the credit card business even though another company in the same conglomerate group is already engaged in such business, which was previously not permitted.

The Specialized Credit Financial Business Act establishes guidelines on capital adequacy and provides for other regulations relating to the supervision of credit card companies. The Specialized Credit Financial Business Act delegates regulatory authority over credit card companies to the Financial Services Commission and its executive body, the Financial Supervisory Service.

A licensed bank engaging in the credit card business is regulated by the Financial Services Commission and the Financial Supervisory Service.

The Financial Services Commission regulates credit card companies and licensed banks engaged in the credit card business by establishing guidelines or regulations on management of such companies. Moreover if the Financial Services Commission deems the financial condition of a credit card company or a licensed bank engaged in the credit card business to be unsound or such companies fail to satisfy the guidelines or regulations, the Financial Services Commission may take certain measures to improve the financial condition of such companies.

Restrictions on Scope of Business

Under the Specialized Credit Financial Business Act, a credit card company may conduct only the following types of business: (i) credit card business as licensed or other specialized credit finance businesses as registered pursuant to the Specialized Credit Financial Business Act; (ii) the businesses ancillary to the credit card business, (for example, providing cash advance loans to existing credit card holders, issuing and settling of debit cards and issuing, selling and settling of pre-paid cards); (iii) provision of unsecured or secured loans; (iv) provision of

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discount on notes; (v) purchase, management and collection of account receivables originated by companies in the course of providing goods and services; (vi) provision of payment guarantee; (vii) asset management business under the Asset Backed Securitization Act; (viii) credit investigation; and (ix) other incidental businesses related to the foregoing. Under the Specialized Credit Financial Business Act, a credit card company's scope of business includes businesses that utilize existing manpower, assets or facilities in a credit card company, as designated by the Financial Services Commission. Under the current regulation established by the Financial Services Commission, a credit card company may engage in various types of business including, but not limited to, e-commerce, operation of insurance agency, delegation of card issuance, supply of payment settlement system, loan brokerage and brokerage of collective investment securities.

A credit card company's average balance of claim amounts arising from the advance of loans to credit card holders (excluding such claims arising from the re-advance of loans to credit card holders following a change in the maturity or interest rate of such loans as part of a debt restructuring) as of the end of each quarter may not exceed the sum of the following amounts:

Average balance of claims during a quarter arising from the purchase of goods or services by credit card holders with credit cards; and

Amount of debit card usage during a quarter by debit card members.

Capital Adequacy

The Specialized Credit Financial Business Act provides for a minimum paid-in capital amount of: (i) ₩20 billion in the case of a specialized credit financial business company which wishes to engage in no more than two kinds of core businesses (i.e. credit card, installment finance, leasing and new technology business) and (ii) ₩40 billion in the case of an specialized credit financial business company, which wishes to engage in three or more kinds of core businesses.

Under the Specialized Credit Financial Business Act and regulations thereof, a credit card company must maintain a capital adequacy ratio, defined as the ratio of adjusted equity capital to adjusted total asset, of 8% or more and a delinquent claim ratio, defined as the ratio of delinquent claims to total claims as set forth under the regulations relating to the Specialized Credit Financial Business Act, of less than 10%.

Under the Specialized Credit Financial Business Act and regulations thereof, the minimum ratio of allowances for losses on loans, leased assets (except assets subject to an operating lease) and suspense receivables as of the date of accounting settlement (including semiannual preliminary accounts settlement) would be 0.5% of normal assets, 1% of precautionary assets and 20% of substandard assets, 75% of doubtful assets and 100% of estimated loss assets, and the minimum ratio of allowances for losses on card assets would be 1.1% (or 2.5%, in the case of card loan assets and revolving assets) of normal assets, 40% (or 50%, in the case of card loan assets and revolving assets) of precautionary assets, 60% (or 65%, in the case of card loan assets and revolving assets) of substandard assets, 75% of doubtful assets and 100% of estimated loss assets. In addition, a credit card company has to reserve a certain amount calculated according to relevant regulations as loss allowances for unused credit limits.

Liquidity

Under the Specialized Credit Financial Business Act and regulations thereunder, a credit card company must maintain a Won liquidity ratio (Won-denominated current assets/Won-denominated current liabilities) of 100% or more. In

addition, once a credit card company is registered as a foreign exchange business institution with the Minister of the Ministry of Strategy and Finance, such credit card company is required to (1) maintain a foreign-currency liquidity ratio within three months (defined as foreign-currency liquid assets due within three months divided by foreign-currency liabilities due within three months) of not less than 80%, (2) maintain a ratio of foreign-currency liquid assets due within seven days (defined as foreign-currency liquid assets due within seven

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days less foreign-currency liabilities due within seven days, divided by total foreign-currency assets) of not less than 0% and (3) maintain a ratio of foreign-currency liquid assets due within a month (defined as foreign-currency liquid assets due within a month less foreign-currency liabilities due within a month, divided by total foreign-currency assets) of not less than negative 10%. The Financial Services Commission requires a credit card company to submit quarterly reports with respect to the maintenance of these ratios.

Restrictions on Funding

Under the Specialized Credit Financial Business Act, a credit card company may raise funds using only the following methods: (i) borrowing from financial institutions, (ii) issuing corporate debentures or notes, (iii) selling securities held by the credit card company, (iv) transferring claims held by the credit card company, (v) borrowing and issuing foreign currency securities after registering itself as a foreign exchange business institutions under the Foreign Exchange Transactions Law, (vi) transferring claims held by the credit card company in connection with its businesses, or (vii) issuing securities backed by the claims held by the credit card company relating to its businesses.

Furthermore, a credit card company may borrow funds from offshore or issue foreign currency denominated securities once it is registered as a foreign exchange business institution with the Minister of the Ministry of Strategy and Finance.

A credit card company must ensure that its total asset does not exceed six times the amount of its equity capital. However, if the credit card company cannot comply with such limit due to the occurrence of unavoidable events such as drastic changes in the domestic and global financial markets, such limit of its total assets compared to the equity capital may be adjusted by a resolution of the Financial Services Commission. A non-credit card company must ensure that its total asset does not exceed ten times the amount of its equity capital.

Restrictions on Loans to Affiliate Companies

Under the Specialized Credit Financial Business Act and regulations thereof, a credit card company may not provide loans exceeding 50% of its equity capital, in the aggregate, to its specially related persons (as defined under the relevant laws) including, but not limited to, its affiliates.

Restrictions on Assistance to Other Companies

Under the Specialized Credit Financial Business Act, a credit card company may not engage in any of the following acts in conjunction with other financial institutions or companies: (i) holding voting shares under cross shareholding or providing credit for the purpose of avoiding the restrictions on loans to affiliate companies; (ii) acquiring shares under cross shareholding for the purpose of avoiding the limitation on purchase of its treasury shares under the Korean Commercial Code or the Financial Investment Services and Capital Markets Act; or (iii) other acts which are likely to have a material adverse effect on the interests of transaction parties as stipulated by the Presidential Decree to the Specialized Credit Financial Business Act, which are not yet provided.

A credit card company also may not extend credit for enabling another person to purchase the shares of such credit card company or to arrange financing for the purpose of avoiding the restrictions on loans to affiliate companies.

Restrictions on Investment in Real Estate

Under the Specialized Credit Financial Business Act and the regulations thereof, a credit card company may possess real estate only to the extent that such business conduct is designated by such laws and regulations, with

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certain exceptions such as for the purposes of factoring or leasing or as a result of enforcing its security rights, provided that the Financial Services Commission may limit the maximum amount a credit card company may invest in real estate investments for business purposes up to a percentage equal to or in excess of 100% of its equity capital.

Restrictions on Shareholding in Other Companies

Under the Specialized Credit Financial Business Act and the Act on the Structural Improvement of the Financial Industry, a credit card company and its affiliate financial institutions (together a group) are required to obtain prior approval of the Financial Services Commission if such credit card company, together with its affiliate financial institutions, (i) owns 20% or more of outstanding voting shares of a target company or (ii) owns 5% or more of outstanding voting shares of a target company, and shall be deemed to have control of the target company, including being the largest shareholder of such target company or otherwise.

Disclosure and Reports

Pursuant to the Specialized Credit Financial Business Act and the regulations thereof, the ordinary disclosure requirement for a credit card company is to disclose any material matters relating to management performance, profits and losses, corporate governance, competence of the employees or risk management within three months from the end of each fiscal year and within two months from the end of the first half of the fiscal year. In addition, a credit card company is required to disclose on an on-going basis certain matters such as the occurrence of non-performing loans, a financial incident or losses exceeding certain amounts. In addition, under the regulations issued by the Financial Services Commission, a credit card company or a licensed bank engaging in the credit card business must submit such report as required by the Governor of the Financial Supervisory Service, with certain important matters being reported as frequently as each month. In addition, all companies engaged in the specialized credit financial business under the Specialized Credit Financial Business Act, including, without limitation, credit card companies, must file a report to the Financial Supervisory Service regarding the result of settlement of accounts within one month after the end of its fiscal year. Also, these companies are required to conduct a provisional settlement of accounts for each quarter and file a report to the Financial Supervisory Service within one month after the end of such quarter.

Risk of Loss Due to Lost, Stolen, Forged or Altered Credit Cards

Under the Specialized Credit Financial Business Act, upon notice from the holder of a credit card or a debit card of its loss or theft, a credit card company or a licensed bank engaged in the credit card business, as the case may be, is liable for any loss arising from the unauthorized use of credit cards or debit cards thereafter as well as any loss from unauthorized transactions made within 60 days prior to such notice. However, a credit card company or a licensed bank engaged in the credit card business, as the case may be, may transfer to the cardholder all or part of the risks of loss associated with unauthorized transactions made within 60 days prior to such notice, in accordance with the standard terms and conditions agreed between the credit card company or the licensed bank engaged in the credit card business, as the case may be, and the cardholder, provided that the loss or theft must be due to the cardholder's willful misconduct or negligence. Disclosure of a cardholder's password under duress or threat to the cardholder's or his/her family's life or health will not be deemed as the cardholder's willful misconduct or negligence.

Moreover, a credit card company or a licensed bank engaged in the credit card business, as the case may be, is also responsible for any losses resulting from the use of forged or altered credit cards, debit cards and pre-paid cards. However, a credit card company or a licensed bank engaged in the credit card business, as the case may be, may transfer all or part of this risk of loss to holders of credit cards in the event of willful misconduct or gross negligence by holders of such cards if the terms and conditions of the written agreement entered between the credit card company or a licensed bank engaged in the credit card business, as the case may be, and holders of such cards specifically

provide for such transfer. For these purposes, disclosure of a customer's password that is

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made intentionally or through gross negligence, or the transfer of or giving as collateral of the credit card or debit card, is considered willful misconduct or gross negligence.

In addition, the Specialized Credit Financial Business Act prohibits a credit card company from transferring to merchants the risk of loss arising from lost, stolen, forged or altered credit cards, debit cards or pre-paid cards; provided, however, that a credit card company may enter into an agreement with a merchant under which the merchant agrees to be responsible for such loss if caused by the merchant's gross negligence or willful misconduct.

Each credit card company or a licensed bank engaged in the credit card business must institute appropriate measures such as establishing reserves, purchasing insurance or joining a cooperative association in order to fulfill its obligations related to the risk of loss arising from unauthorized use due to lost, stolen, forged or altered credit cards, debit cards or pre-paid cards.

Under the Specialized Credit Financial Business Act, the Financial Services Commission may take necessary measures to maintain credit order and protect consumers by establishing standards to be complied with by credit card companies relating to:

maximum limits for cash advances on credit cards;

restrictions on debit cards with respect to per day or per transaction usage;

aggregate issuance limits and maximum limits on the amount per card on pre-paid cards;

calculation and determination of credit limits;

determination of the amount limit of credit cards;

provisions included in credit card agreements;

management of credit card merchants;

collection on claims; or

classification of credit card holders for purposes of determining the fees applicable to such holders.

Lending Ratio in Ancillary Business

Pursuant to the Presidential Decree of the Specialized Credit Financial Business Act, as amended in January 2019, a credit card company must maintain a quarterly average balance of receivables arising from cash advances to credit

card holders (excluding cash advances incurred by re-lending to a credit card holder after modifying the terms and conditions, such as maturity or interest rate, of the original cash advance for debt rescheduling purposes) no greater than its aggregate quarterly average balance of receivables arising from credit card holders purchase of goods and services (excluding the amount of receivables arising from the purchase of goods and services using an exclusive use card for business purposes) plus its aggregate quarterly amount of payments made by members using their debit cards.

Issuance of New Cards and Solicitation of New Card Holders

The Presidential Decree of the Specialized Credit Financial Business Act establishes the conditions under which a credit card company or a licensed bank engaged in the credit card business may issue new cards and solicit new members. Specifically, new credit cards may be issued only to the following persons that meet all of the following criteria: (i) age of 19 years or more as defined in the Korean Civil Code, or age of 18 years or more with evidence of employment as of the date of the credit card application; (ii) satisfaction of a minimum credit score as publicly announced by the Financial Services Commission, provided that the minimum personal credit score requirement will not apply in the case where (a) the credit card company can confirm through objective

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evidence that an applicant is sufficiently capable of paying for his or her credit card use or such applicant can provide objective evidence therefor, or (b) a credit card function is added to an existing debit card for added convenience to the card holder and the credit card function is subject to limits determined by the Financial Services Commission; (iii) satisfaction of the application scoring system for the relevant credit; and (iv) verification of personal identity.

In addition, a credit card company or a licensed bank engaged in the credit card business, as the case may be, may not engage in the following methods of soliciting credit card holders: (i) providing economic benefits or conditioning such benefits in excess of 10% of the annual credit card fee (in the case of no-annual fee credit cards, the average annual fees will be ₩10,000) in connection with issuance of credit cards; (ii) solicitation on streets and private roads as prescribed under the Road Act and Private Road Act, public place and corridors used by the general public; (iii) solicitation through visits, except those visits made upon prior consent and visits to a business area; (iv) solicitation through pyramid sales methods; and (v) solicitation through the Internet, as further discussed below.

In addition, a credit card company or a licensed bank engaged in the credit card business is required to check whether the credit card applicant has any delinquent debt owed to any other credit card company or other financial institutions which the applicant is unable to repay, and also require, in principle, with respect to solicitations made through the Internet, the certified electronic signature of the applicant. Moreover, persons who intend to engage in solicitation of credit card applicants must register with the Financial Services Commission, unless the solicitation is made by officers or employees of a credit card company or a company in business alliance with such credit card company.

Compliance Rules on Collection of Receivable Claims

Pursuant to the Specialized Credit Financial Business Act and its regulations, a credit card company or a licensed bank engaged in the credit card business are prohibited from collecting its claims by way of:

exerting violence or threat of violence;

informing a Related Party (a guarantor of the debtor, blood relative or fiancée of the debtor, a person living in the same household as the debtor or a person working in the same workplace as the debtor) of the debtor's liability without just cause;

providing false information relating to the debtor's obligation to the debtor or his or her Related Party;

threatening to sue or suing the debtor for fraud despite lack of affirmative evidence to establish that the debtor has submitted forged or false documentation with respect to his/her capacity to make payment;

visiting or telephoning the debtor during late hours between 9:00 p.m. and 8:00 a.m.; and

utilizing other uncustomary methods to collect the receivables thereby invading the privacy or the peacefulness in the workplace of the debtor or his or her Related Party.

Principal Regulations Applicable to Financial Investment Companies

General

The securities business is regulated and governed by the Financial Investment Services and Capital Markets Act. Financial investment companies are under the regulation and supervision of the Financial Services Commission, the Financial Supervisory Service and the Securities and Futures Commission.

Under the Financial Investment Services and Capital Markets Act, a financial investment company may engage in dealing, brokerage, collective investment, investment advice, discretionary investment management or trust businesses if it has obtained relevant licenses from the Financial Services Commission.

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A financial investment company may also engage in certain businesses ancillary to the primary business or certain other additional businesses by submitting a report to the Financial Services Commission at least seven days prior to the commencement of the business without obtaining any separate license. Approval to merge with any other entity or to transfer all or substantially all of a business must also be obtained from the Financial Services Commission.

Under the Act on the Structural Improvement of the Financial Industry, if the Korean government deems a financial investment company's financial condition to be unsound or if a financial investment company fails to meet the applicable Net Operating Equity Ratio (as defined below), the government may order certain sanctions, including among others, sanctions against a financial investment company or its officers or employees, capital increase or reduction and a suspension or assignment of a part or all of business operation.

Regulations on Financial Soundness – Capital Adequacy

The Financial Investment Services and Capital Markets Act sets forth various types of brokerage and/or dealing business licenses based on (i) the scope of products and services that may be provided by each type of the brokerage and/or dealing licensee and (ii) the type of customers to which such products and services may be provided. For example, a financial investment company engaged in the brokerage, dealing and underwriting businesses with retail investors as well as professional investors in connection with all types of securities is required to have a minimum paid-in capital of ₩53 billion in order to obtain a license for such brokerage, dealing and underwriting businesses.

Under the Financial Investment Service Regulations, as amended and effective as of January 31, 2019, the soundness requirement of financial investment companies changed from the previous net operating equity ratio requirement to a net equity ratio requirement. The net equity ratio is calculated according to the following formula:

$$\text{Net Equity Ratio} = (\text{Net Operating Equity} - \text{Total Risk}) / \text{Equity Capital Maintenance Requirement for Each Service Unit}$$

The terms "Net Operating Equity" and "Total Risk" for the purpose of the above-stated formula are defined and elaborated in the regulations of the Financial Services Commission. Generally, the Net Operating Equity, the Total Risk and the Equity Capital Maintenance Requirement for Each Service Unit are to be calculated according to the following formula:

Net Operating Equity = Net assets (total assets - total liabilities) - the total of items that may be deducted + the total of items that may be added;

Total Risk = market risk + counterparty risk + management risk; and

Equity Capital Maintenance Requirement for Each Service Unit = Mandatory Equity Capital to be Required for Each Licensed Service Unit × 70%

The regulations of the Financial Services Commission requires, among other things, financial investment companies to maintain the net equity ratio at a level equal to or higher than 100% at the end of the each quarter of the fiscal year.

In addition, all Korean companies, including financial investment companies, are required to set aside, as a legal reserve, 10% of the cash portion of the annual dividend or interim dividend in each fiscal year until the reserve reaches 50% of the stated capital.

Under the Financial Investment Services and Capital Markets Act and regulations thereunder, the minimum ratio of allowances for losses on loans and suspense receivables specified under such regulations is 0.5% of

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normal assets, 2% of precautionary assets, 20% of substandard assets, 75% of doubtful assets and 100% of estimated loss assets.

Other Provisions on Financial Soundness

The Financial Investment Services and Capital Markets Act, the Presidential Decree of the Financial Investment Services and Capital Markets Act and the regulations of the Financial Services Commission also include certain provisions which are designed to regulate certain types of activities relating to the management of the assets of a securities company, subject to certain exceptions. Such provisions include:

restrictions on the holdings by a securities company of securities issued by another company which is the largest shareholder or the major shareholder (each as defined under the Financial Investment Services and Capital Markets Act) of such securities company; and

restrictions on providing money or credit to the largest shareholder (including specially-related persons of such shareholder), major shareholders, officers and specially-related persons of the securities company.

Principal Regulations Applicable to Insurance Companies

General

Insurance companies are regulated and governed by the Insurance Business Act (the Insurance Business Act). In addition, insurance companies in Korea are under the regulation and supervision of the Financial Services Commission and its governing entity, the Financial Supervisory Service.

Under the Insurance Business Act, approval to commence an insurance business must be obtained from the Financial Services Commission based on the type of insurance businesses, which are classified as life insurance business, non-life insurance business and third type insurance business. Life insurance business means an insurance business which deals with life insurance policies or pension insurance policies (including retirement insurance policies). Non-life insurance business means an insurance business which deals with fire insurance policies, marine insurance policies, car insurance policies, guaranty insurance policies, reinsurance policies, liability insurance policies or other insurance policies prescribed under the Presidential Decree of the Insurance Business Act. Third type insurance business means an insurance business which deals with injury insurance policies, health insurance policies or nursing care insurance policies. Under the Insurance Business Act, insurance companies are not allowed to engage in both a life insurance business and a non-life insurance business, subject to certain exceptions.

If the Korean government deems an insurance company's financial condition to be unsound or if an insurance company fails to properly manage the business as set forth under relevant Korean law, the government may order certain sanctions including, among others, sanctions against an insurance company or its officers or employees, capital increase or reduction and a suspension or assignment of a part or all of business operation.

Capital Adequacy

The Insurance Business Act requires a minimum paid-in capital of ₩30 billion for an insurance company; provided, that, the insurance company which intends to engage in only certain types of insurance policies may have a lower paid-in capital pursuant to the Presidential Decree of the Insurance Business Act.

In addition to the minimum capital requirement, an insurance company is required to maintain a Solvency Margin Ratio of 100% or more. Solvency Margin Ratio is the ratio of the Solvency Margin to the Standard Amount of the Solvency Margin. Solvency Margin is the aggregate amount of paid-in capital, reserve for dividends to policyholders, allowance for bad debt and subordinated debt amount and others similar thereto as set

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out in the regulation of the Financial Services Commission, less non-amortized acquisition costs, goodwill and others similar thereto as appearing in the regulation of the Financial Services Commission. The Standard Amount of Solvency Margin for life insurance companies is defined under the regulation of the Financial Services Commission and is required to comply with the risk based capital regime.

Under the Insurance Business Act, the Presidential Decree and other regulations thereunder, for each accounting period, insurance companies are required to appropriate policy reserve that is earmarked for future payments of insurance money, refund and dividends to policyholders (hereinafter collectively referred to as Insurance Money) for each insurance contract. However, if an insurance company has reinsured a portion of its insurance contracts with a creditworthy reinsurance company in order to lower its overall risk, in principle, the insurance company is not required to appropriate policy reserve for the reinsured contracts. Instead, the reinsurance company is required to appropriate such policy reserve for the reinsured contracts. However, if an insurance company transfers more than 50% of its risk to a reinsurance company, the amount of risk transferred in excess of 50% will be disregarded for purposes of calculating the solvency margin ratio. In particular, if the ratio of the risks transferred to the reinsurance company to the total risks insured by an insurance company exceeds 50%, such insurance company will be required to have net assets in relation to such risks transferred in excess of the 50% threshold for purposes of the solvency margin requirement. The Insurance Business Act was amended on January 24, 2011 to classify the insurance products into two categories: (i) reportable insurance products and (ii) voluntary insurance products. Under this amendment, only the changes to the terms and conditions of the reportable insurance products require a prior report and approval from the Financial Supervisory Service and the voluntary insurance products can be sold without prior approval from the Financial Supervisory Service. The policy reserve needs to be appropriated in accordance with the policy reserve calculation method for each insurance product as stipulated in amended Insurance Business Act.

The policy reserve amount consists of the following: (i) premium reserves and prepaid insurance premiums which are calculated under the methods determined by the written calculation methods for insurance premiums and policy reserves by insurance types or by lapses of insurance period, with regard to the contracts for which the causes for payment of the Insurance Money have yet to occur as of the end of each accounting period; (ii) amounts for which a lawsuit is pending on the Insurance Money or amounts for which a payment has been fixed with regard to the contracts for which the causes for payment of Insurance Money have occurred as of the end of each accounting period, and amounts which have not been paid yet due to an unsettled amount for paying the Insurance Money, even if the causes for payment of the Insurance Money have already occurred; and (iii) amounts reserved by an insurance company for allocation to policyholders.

Pursuant to the regulations established by the Financial Services Commission, insurance companies are required to maintain allowances for outstanding loans, accounts receivables and other credits (including accrued income, payment on account, and bills receivables or dishonored) in an aggregate amount covering not less than 0.5% of normal credits, 2% of precautionary credits, 20% of substandard credits, 50% of doubtful credits and 100% of estimated loss credits, provided that the minimum ratio of allowances for certain type of outstanding loans by insurance companies to individuals and households (including, retail loans, housing loans, and other forms of retail loans extended to individuals not registered for business), is increased to 1% of normal credits, 10% of precautionary credits and 55% of doubtful credits. Furthermore, the regulations on insurance companies became more stringent in September 2010 by adding a requirement that insurance companies maintain allowance for bad debts in connection with real estate project financing loans in excess of 0.9% of normal credits and 7% of precautionary credits.

Variable Insurance and Bancassurance Agents

Variable insurance is regulated pursuant to the Insurance Business Act and the Financial Investment Services and Capital Markets Act. In order for an insurance company to sell variable insurance to a policyholder and operate such

variable insurance, the insurance company must obtain a license with respect to collective investment business from the Financial Services Commission and register as a selling company with the

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Financial Services Commission. In this case, according to the Financial Investment Services and Capital Markets Act, an insurance company will be regulated as an investment trust and assets acquired in connection with variable insurance must be held by a trust company that is registered with the Financial Services Commission pursuant to the Financial Investment Services and Capital Markets Act.

According to the Financial Investment Services and Capital Markets Act, insurance companies may operate variable insurance through (i) mandating all of the management and the management instruction business to another asset management company, (ii) operating by way of discretionary investment all of the assets constituting the investment advisory assets out of the investment trust assets, or (iii) operating all of the investment trust assets into other collective investment securities, thereby allowing all of the particular variable insurance assets to be outsourced.

The Insurance Business Act permits banks, securities companies, credit card companies and other financial institutions to register as insurance agents or insurance brokers and engage in the insurance business (the Bancassurance Agents), who are currently permitted to sell all types of life and non-life insurance products, except for protection type insurance products, such as whole life insurance, critical illness insurance and automobile insurance.

Restrictions on Investment of Assets

According to the Insurance Business Act, insurance companies are prohibited from making any of the following investment of assets:

owning any real estate (excluding any real estate owned as a result of enforcing their own security interest) other than real estate for conducting its business as designated by the Presidential Decree. In any case, the total amount of real estate owned by an insurance company must not exceed 25% of its Total Assets, provided that investment in real estate for a separate account is limited to 15% of the assets of such separate account;

loans made for the purpose of speculation in commodities or securities;

loans made directly or indirectly to enable a natural or legal person to buy their own shares;

loans made directly or indirectly to finance political campaigns and other similar activities; and

loans made to any of the insurance company's officers or employees other than loans based on insurance policy or de minimis loans of up to (1) ₩20 million in the case of a general loan, (2) ₩50 million in the case of a general loan plus a housing loan, or (3) ₩60 million in the aggregate for general loans and housing loans.

In addition, insurance companies are not allowed to exceed the following limits in making the following investments:

with respect to holding foreign currency under the Foreign Exchange Transaction Act or owning offshore real estate, 30% of its Total Assets; and

with respect to the sum of margins for a futures exchange designated by the Presidential Decree or a foreign futures exchange, and commitment amounts of over-the-counter derivatives must not exceed 6% of its Total Assets, provided that the over-the-counter derivative trades are limited to 3%. The derivatives trades of a separate account are limited to 6% of the assets of separate account, provided that the over-the-counter derivatives trades are limited to 3%.

Regulations on Class Actions Regarding Securities

The Law on Class Actions Regarding Securities was enacted as of January 20, 2004 and last amended on May 28, 2013. The Law on Class Actions Regarding Securities governs class actions suits instituted by one or

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more representative plaintiff(s) on behalf of 50 or more persons who claim to have been damaged in a capital markets transaction involving securities issued by a listed company in Korea.

Applicable causes of action with respect to such suits include:

claims for damages caused by misleading information contained in a securities statement;

claims for damages caused by the filing of a misleading business report, semi-annual report, or quarterly report;

claims for damages caused by insider trading or market manipulation; and

claims instituted against auditors for damages caused by accounting irregularities.

Any such class action may be instituted upon approval from the presiding court and the outcome of such class action will have a binding effect on all potential plaintiffs who have not joined the action, with the exception of those who have filed an opt out notice with such court.

U.S. Regulations

As a substantial majority of our and our subsidiaries' operations are in Korea, we are primarily subject to the regulations and supervision of the Financial Services Commission and the Financial Supervisory Service. Our subsidiaries, however, have limited operations in the United States, and we own a bank in the United States. Therefore, we and our U.S. operations are subject to U.S. supervision, regulation and enforcement by relevant authorities in the United States with regard to our U.S. operations.

U.S. Banking Regulations

Our operations in the United States are subject to a variety of regulatory regimes. Shinhan Bank maintains an uninsured branch in New York, which is licensed by the New York State Department of Financial Services (the Department) and registered with the banking authority of Korea. Shinhan Bank's New York branch is subject to regulation and examination by the Department under its licensing authority. In addition, the Board of Governors of the Federal Reserve System (the Federal Reserve Board) exercises examination and regulatory authority over Shinhan Bank's U.S. branch. We also own a non-member state chartered bank, Shinhan Bank America, which is regulated by the Department, as its chartering authority, and by the Federal Deposit Insurance Corporation (FDIC), as its primary federal banking regulator and as the insurer of its deposits. Our U.S. branch and U.S. bank subsidiary are subject to restrictions on their respective activities, as well as prudential restrictions, such as limits on extensions of credit to a single borrower, and restrictions on transactions with affiliates, among other things. We are also a financial holding company and a bank holding company under U.S. banking laws and our U.S. operations are subject to regulation, supervision and enforcement by the Federal Reserve Board.

Shinhan Bank's U.S. Branch

The Department, as the licensing authority of Shinhan Bank's U.S. branch, has the authority, in certain circumstances, to take possession of the business and property of Shinhan Bank located in New York. Such circumstances generally include violations of law, unsafe business practices and insolvency. If the Department exercised this authority over the New York branch of Shinhan Bank, all assets of Shinhan Bank located in New York would generally be applied first to satisfy creditors of the New York branch. Any remaining assets would be applied to satisfy creditors of other U.S. offices of Shinhan Bank, after which any residual assets of the New York branch would be returned to the principal office of Shinhan Bank, and made available for application pursuant to any Korean insolvency proceeding.

Financial Holding Company

In addition to the direct regulation of Shinhan Bank's U.S. branch by the Department and the Federal Reserve Board, because we operate a U.S. branch and have a subsidiary bank in the U.S., our nonbanking

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activities in the United States are subject to regulation by the Federal Reserve Board pursuant to the International Banking Act of 1978, the Bank Holding Company Act of 1956 (the BHC Act), and other laws. We have elected to be a financial holding company under the BHC Act. Financial holding companies may engage in a broader spectrum of activities than bank holding companies or foreign banking organizations that are not financial holding companies, including underwriting and dealing in securities. To maintain our financial holding company status, (i) we and our U.S. subsidiary bank located in New York are required to be well capitalized and well managed, (ii) our U.S. branch is required to meet certain examination ratings, and (iii) our subsidiary bank in New York is required to maintain a rating of at least satisfactory under the Community Reinvestment Act of 1977 (the CRA).

A major focus of U.S. governmental policy relating to financial institutions in recent years has been aimed at fighting money laundering and terrorist financing. Regulations applicable to us and our subsidiaries impose obligations to maintain effective policies, procedures and controls to detect, prevent and report money laundering and terrorist financing and to verify the identities of clients. Failure of a financial institution to maintain and implement adequate programs to combat money laundering and terrorist financing could have serious consequences for the firm, both in legal terms and in terms of our reputation.

The Dodd-Frank Wall Street Reform and Consumer Protection Act (the Dodd-Frank Act), which was enacted on July 21, 2010 in response to the financial crisis, impacts the financial services industry by addressing, among other issues, systemic risk oversight, bank capital standards, the liquidation of failing systemically important institutions, over-the-counter and cleared derivatives, the ability of banking entities, including non-U.S. banks with branches in the U.S., like us, to engage in proprietary trading activities and invest in hedge funds and private equity (the so-called Volcker rule), consumer and investor protection, hedge fund registration, securitization, investment advisors, shareholder say on pay, the role of credit-rating agencies, and more. The Dodd-Frank Act requires various federal banking and financial regulatory authorities to adopt a broad range of implementing rules and regulations. Such authorities have significant discretion in drafting the implementing rules and regulations.

The Dodd-Frank Act provides regulators with tools to impose greater capital, leverage and liquidity requirements and other prudential standards, particularly for financial institutions that pose significant systemic risk. Pursuant to the Dodd-Frank Act, the Federal Reserve Board has implemented rules that establish enhanced prudential standards for the U.S. operations of foreign banking organizations (FBOs) such as us. In imposing such heightened prudential standards on non-U.S. banks such as us, the Federal Reserve Board is directed to take into account the principle of national treatment and equality of competitive opportunity, and the extent to which the foreign bank holding company is subject to comparable home country standards.

Our combined U.S. operations are currently and may continue to be subject to certain enhanced prudential standards.

In particular, enhanced prudential standards currently applicable to FBOs:

require an FBO with both significant total global consolidated assets and significant U.S. assets (excluding the total assets of each U.S. branch and agency) to establish a U.S. top-tier intermediate holding company (IHC) over all U.S. bank and nonbank subsidiaries subject to the proposal;

subject an FBO's IHC to the same capital adequacy standards, including minimum risk based capital and leverage requirements, as those applicable to U.S. bank holding companies;

require an FBO with significant combined U.S. assets to have its U.S. operations satisfy certain liquidity risk management standards, conduct liquidity stress tests, and maintain a buffer of highly liquid assets over specified time horizons, and an FBO with less significant combined U.S. assets to conduct an internal liquidity stress test and report the results to the Federal Reserve Board on an annual basis; and

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subject the largest FBOs with the most significant U.S. operations to heightened compliance obligations with respect to capital plans, capital and leverage standards, capital stress testing, liquidity stress testing and risk management, as well as single counterparty credit limits.

The currently applicable enhanced prudential standards also include requirements relating to overall risk management and debt-to-equity limits for the U.S. operations of FBOs. Rules imposing early remediation requirements on FBOs have yet to be finalized. We continue to assess the full impact of these enhanced prudential requirements on our business, as well as legislative and administrative amendments that may be enacted to change various asset or other thresholds for the application of enhanced prudential standards and other requirements.

The current regulatory environment in the United States may be impacted by future legislative developments, such as amendments to key provisions of the Dodd-Frank Act. On February 3, 2017, U.S. President Donald Trump signed an executive order calling for a review of U.S. financial laws and regulations in order to determine their consistency with a set of core principles identified in the order. On May 24, 2018, the Economic Growth, Regulatory Relief and Consumer Protection Act (the Reform Act) was signed into law. Among other regulatory changes, the Reform Act amends various sections of the Dodd-Frank Act, including by modifying the Volcker Rule to exempt certain depository institutions and by raising the asset threshold for U.S. banking organizations to become subject to enhanced prudential standards. The ultimate consequences of the Reform Act and its potential impact on us remain uncertain.

The Reform Act raised the threshold for automatic application of enhanced prudential standards to FBOs under the Dodd-Frank Act from \$50 billion in total global consolidated assets to \$250 billion. The bill exempted FBOs with total global consolidated assets of less than \$100 billion from these enhanced prudential standards effective immediately upon enactment of the bill. FBOs with total global consolidated assets between \$100 billion to \$250 billion will be exempt from these enhanced prudential standards following an 18-month period unless the Federal Reserve Board determines to apply some or all of these standards to some or all such FBOs or to subject such FBOs to less stringent versions of these standards. In October 2018, the Federal Reserve Board issued a proposed rule that would implement the Reform Act's changes to the application of enhanced prudential standards with respect to U.S. bank holding companies, and in April 2019 the Federal Reserve Board issued a proposed rule that would implement Reform Act's changes to the application of enhanced prudential standards with respect to FBOs (the FBO Tailoring Proposal). The FBO Tailoring Proposal would delineate three categories of enhanced prudential standards applicable to FBOs based on an FBO's asset size and other factors such as the degree of the cross-jurisdictional activity, reliance on short-term wholesale funding, nonbank assets, and off-balance sheet exposures of an FBO's U.S. operations. The FBO Tailoring Proposal generally would determine the stringency of enhanced prudential standards applicable to FBOs based on the risk profile of the FBO's U.S. operations, rather than its global footprint, with most enhanced prudential standards applying only to FBOs with combined U.S. assets of at least \$100 billion. FBOs with global assets of \$100 billion or more and a relatively limited U.S. presence, such as us, would be subject to certain minimum standards, with the Federal Reserve Board relying primarily on compliance with comparable home-country prudential standards with respect to such FBOs.

In addition, as an FBO with more than \$100 billion in total consolidated assets, we are currently required to submit annually to the Federal Reserve Board and FDIC a resolution plan for the orderly resolution of our U.S. operations under the U.S. Bankruptcy Code or other applicable insolvency laws in a rapid and orderly fashion in the event of future material financial distress or failure. If the Federal Reserve Board and the FDIC jointly determine that the resolution plan is not credible and the deficiencies are not cured in a timely manner, they may jointly impose more stringent capital, leverage or liquidity requirements or restrictions on our growth, activities or operations. If we were to fail to address the deficiencies in the resolution plan when required, we could eventually be required to divest certain assets or operations.

In April 2019, the Federal Reserve Board and FDIC issued a proposed rule addressing the applicability of resolution planning requirements for FBOs (the FBO Resolution Plan Proposal). The FBO Resolution Plan

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Proposal would apply reduced resolution plan filing requirements to FBOs that have \$250 billion or more in total global consolidated assets and that do not otherwise meet certain category thresholds identified in the FBO Tailoring Proposal, such as us, requiring such FBOs to submit a reduced content resolution plan every three years. It remains unclear whether the Federal Reserve Board will adopt final rules amending the enhanced prudential standards or resolution planning requirements currently applicable to us and, if such rules were to be adopted, we cannot predict at this time the extent to which the scope of such final rules would resemble the FBO Tailoring Proposal or FBO Resolution Plan Proposal. It also remains unclear whether any other particular legislative or regulatory proposals will be enacted or adopted. In addition, it is not possible to determine the full extent of any impact on us of any such potential financial reform legislation or rulemaking, or whether any proposed legislation or rulemaking will become enacted or adopted.

Shinhan Bank America

Shinhan Bank America, a state chartered bank that is located in New York and is not a member of the Federal Reserve Board, is subject to extensive regulation and examination by the Department, as its chartering authority, and by the FDIC, as the insurer of its deposits and as its primary federal banking regulator. The federal and state laws and regulations which are applicable to banks regulate, among other things, the activities in which they may engage and the locations at which they may engage in them, their investments, their reserves against deposits, the timing of the availability of deposited funds and transactions with affiliates, among other things. Shinhan Bank America must file reports with the Department and the FDIC concerning its activities and financial condition, in addition to obtaining regulatory approvals prior to entering into certain transactions, such as establishing branches and mergers with, or acquisitions of, other depository institutions. The Department and the FDIC periodically examine the bank to test Shinhan Bank America's safety and soundness and its compliance with various regulatory requirements. This comprehensive regulatory and supervisory framework restricts the activities in which a bank can engage and is intended primarily for the protection of the FDIC insurance fund and the bank's depositors. The regulatory structure also gives the regulatory authorities extensive discretion in connection with their supervisory and enforcement activities and examination policies, including policies with respect to the classification of assets and the establishment of adequate loan loss reserves. Any change in such regulations, whether by the Department, the FDIC or as a result of the enactment of legislation, could have a material adverse impact on Shinhan Bank America and its operations.

Capital Requirements. The FDIC imposes capital adequacy standards on state-chartered banks like Shinhan Bank America. The prompt corrective action framework under the Federal Deposit Insurance Corporation Improvement Act of 1991 (FDICIA), provides, among other things, for expanded regulation of insured depository institutions, including banks, and their parent holding companies. As required by FDICIA, the federal banking agencies have established five capital tiers ranging from well capitalized to critically undercapitalized for insured depository institutions. In order for our U.S. bank subsidiary to be classified as well capitalized, which is necessary in order for us to maintain our financial holding company status, it must maintain a minimum 5% Tier I leverage ratio, a 6.5% common equity Tier I capital ratio, a 8% Tier I risk-based capital ratio and a 10% total risk-based capital ratio.

In order for Shinhan Bank America to be classified as adequately capitalized under FDICIA's prompt corrective action standards, which is necessary in order for Shinhan Bank America to avoid certain restrictions under FDICIA, it must maintain a minimum 4% Tier I leverage ratio, a 4.5% common equity Tier I capital ratio, a 6% Tier I risk-based capital ratio and a 8% total risk-based capital ratio.

As of December 31, 2018, Shinhan Bank America exceeded all of the capital ratio standards for a well capitalized bank with a Tier I leverage ratio of 14.61%, a common equity Tier I risk-based capital ratio of 19.12%, a Tier I risk-based capital ratio of 19.12% and a total risk-based capital ratio of 19.88%.

Activities and Investments of New York-Chartered Banks. Shinhan Bank America derives its lending, investment and other authority primarily from the applicable provisions of New York State Banking Law and the

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regulations of the Department, as well as FDIC regulations and other federal laws and regulations. See *Activities and Investments of FDIC-Insured State-Chartered Banks* below. These New York laws and regulations authorize Shinhan Bank America to invest in real estate mortgages, consumer and commercial loans, certain types of debt securities, including certain corporate debt securities and obligations of federal, State and local governments and agencies, and certain other assets. A bank's aggregate lending powers are not subject to percentage of asset limitations, but, as discussed below, there are limits on the amount of credit exposure that a bank may have to a single borrower or group of related borrowers. A New York-chartered bank may also exercise trust powers upon approval of the Department. Shinhan Bank America does not have trust powers.

With certain limited exceptions, Shinhan Bank America may not make loans or extend credit for commercial, corporate or business purposes (including lease financing) to a single borrower, the aggregate amount of which would be in excess of 15% of Shinhan Bank America's net worth, on an unsecured basis, and 25% of the net worth if the excess is collateralized by readily marketable collateral or collateral otherwise having a value equal to the amount by which the loan exceeds 15% of Shinhan Bank America's net worth. In calculating the amount of outstanding loans or credit to a particular borrower for this purpose, Shinhan Bank America must include its credit exposure arising from derivative transactions with the borrower.

Activities and Investments of FDIC-Insured State-Chartered Banks. The activities and equity investments of FDIC-insured, state-chartered banks are generally limited to those that are permissible for national banks. Under regulations dealing with equity investments, an insured state bank generally may not directly or indirectly acquire or retain any equity investment of a type, or in an amount, that is not permissible for a national bank. An insured state bank may, among other things, (i) acquire or retain a majority interest in a subsidiary that is engaged in activities that are permissible for the bank itself to engage in, (ii) invest as a limited partner in a partnership the sole purpose of which is direct or indirect investment in the acquisition, rehabilitation or new construction of a qualified housing project, provided that such limited partnership investments may not exceed 2% of the bank's total assets, and (iii) acquire up to 10% of the voting stock of a company that solely provides or reinsures directors', trustees' and officers' liability insurance coverage or bankers' blanket bond group insurance coverage for insured depository institutions. In addition, an FDIC-insured state-chartered bank may not directly, or indirectly through a subsidiary, engage as principal in any activity that is not permissible for a national bank unless the FDIC has determined that such activities would pose no risk to the insurance fund of which it is a member and the bank is in compliance with applicable regulatory capital requirements.

Regulatory Enforcement Authority. Applicable banking laws include substantial enforcement powers available to federal banking regulators. This enforcement authority includes, among other things, the ability to assess civil money penalties, to issue cease-and-desist or removal orders and to initiate injunctive actions against banking organizations and institution-affiliated parties, as defined. In general, these enforcement actions may be initiated for violations of laws and regulations and unsafe or unsound practices. Other actions or inactions may provide the basis for enforcement action, including misleading or untimely reports filed with regulatory authorities. On June 12, 2017, Shinhan Bank America entered into a consent order with the FDIC with respect to certain weaknesses relating to its anti-money laundering compliance program. Shinhan Bank America has taken corrective measures and provides periodic reports to the FDIC with regard to such matters.

Under the New York State Banking Law, the Department may issue an order to a New York-chartered banking institution to appear and explain an apparent violation of law, to discontinue unauthorized or unsafe practices and to keep prescribed books and accounts. Upon a finding by the Department that any director, trustee or officer of any banking organization has violated any law, or has continued unauthorized or unsafe practices in conducting the business of the banking organization after having been notified by the Department to discontinue such practices, such director, trustee or officer may be removed from office by the Department after notice and an opportunity to be heard.

The Department also may take possession of a banking organization under specified statutory criteria.

Prompt Corrective Action. Section 38 of the Federal Deposit Insurance Act provides the federal banking regulators with broad power to take prompt corrective action to resolve the problems of undercapitalized

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institutions. The extent of the regulators' powers depends on whether the institution in question is well capitalized, adequately capitalized, undercapitalized, significantly undercapitalized or critically undercapitalized. A bank is deemed to be (i) well capitalized if it has total risk-based capital ratio of 10.0% or greater, has a Tier I risk-based capital ratio of 8.0% or greater, has a common equity Tier I capital ratio of 6.5% or greater, has a Tier I leverage capital ratio of 5.0% or greater, and is not subject to specified requirements to meet and maintain a specific capital level for any capital measure, (ii) adequately capitalized if it has a total risk-based capital ratio of 8.0% or greater, has a Tier I risk-based capital ratio of 6.0% or greater, has a common equity Tier I capital ratio of 4.5% or greater, has a Tier I leverage capital ratio of 4.0% or greater and does not meet the definition of well capitalized, (iii) undercapitalized if it has a total risk-based capital ratio that is less than 8.0%, has a Tier I risk-based capital ratio that is less than 6.0%, has a common equity Tier I capital ratio of less than 4.5%, or has a Tier I leverage capital ratio that is less than 4.0%, (iv) significantly undercapitalized if it has a total risk-based capital ratio that is less than 6.0%, has a Tier I risk-based capital ratio that is less than 4.0%, has a common equity Tier I capital ratio that is less than 3.0%, or has or a Tier I leverage capital ratio that is less than 3.0%, and (v) critically undercapitalized if it has a ratio of tangible equity to total assets that is equal to or less than 2.0%. The regulations also provide that a federal banking regulator may, after notice and an opportunity for a hearing, reclassify a well capitalized institution as adequately capitalized and may require an adequately capitalized institution or an undercapitalized institution to comply with supervisory actions as if it were in the next lower category if the institution is in an unsafe or unsound condition or engaging in an unsafe or unsound practice. The federal banking regulator may not, however, reclassify a significantly undercapitalized institution as critically undercapitalized.

An institution generally must file a written capital restoration plan which meets specified requirements, as well as a performance guaranty by each company that controls the institution, with an appropriate federal banking regulator within 45 days of the date that the institution receives notice or is deemed to have notice that it is undercapitalized, significantly undercapitalized or critically undercapitalized. Immediately upon becoming undercapitalized, an institution becomes subject to statutory provisions, which, among other things, set forth various mandatory and discretionary restrictions on the operations of such an institution.

FDIC Insurance. Shinhan Bank America's deposits are insured by the FDIC. As insurer, the FDIC is authorized to conduct examinations of, and to require reporting by, FDIC-insured institutions. It also may prohibit any FDIC-insured institution from engaging in any activity the FDIC determines by regulation or order to pose a serious threat to the FDIC.

During the 2008-2009 financial crisis, there were many failures and near-failures among financial institutions. The FDIC insurance fund reserve ratio, representing the ratio of the fund to the level of insured deposits, declined due to losses caused by bank failures and the FDIC then increased its deposit insurance premiums on remaining institutions in order to replenish the insurance fund. The FDIC insurance fund balance increased throughout 2010 and turned positive in 2011. The Dodd-Frank Act requires the FDIC to increase the ratio of the FDIC insurance fund to estimated total insured deposits (Reserve Ratio) to 1.35% by September 30, 2020. If bank failures in the future are more costly than the FDIC currently anticipates, then the FDIC may be required to continue to impose higher insurance premiums. Any such increase would increase our non-interest expense. Thus, despite the prudent steps Shinhan Bank America may take to avoid the mistakes made by other banks, its costs of operations may increase as a result of those mistakes by others.

As required by the Dodd-Frank Act, the FDIC revised its deposit insurance premium assessment rates in 2011. In 2016, the FDIC adopted a rule in accordance with provisions of the Dodd-Frank Act that requires large institutions to bear the burden of raising the Reserve Ratio from 1.15% to 1.35% through assessment surcharges for such large institutions. The Reserve Ratio exceeded 1.35% in September 2018.

As a result of the Dodd-Frank Act, the increase in the standard FDIC insurance limit from US\$100,000 to US\$250,000 was made permanent. The Dodd-Frank Act also removed the prohibition on banks paying interest on demand deposits.

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The FDIC may terminate the deposit insurance of any insured depository institution, including Shinhan Bank America, if it determines, after a hearing, that the institution has engaged or is engaging in unsafe or unsound practices, is in an unsafe or unsound condition to continue operations, or has violated any applicable law, regulation, order or any condition imposed by an agreement with the FDIC. It also may suspend deposit insurance temporarily during the hearing process for the permanent termination of insurance, if the institution has no tangible capital. If insurance of accounts is terminated, the accounts at the institution at the time of the termination, less subsequent withdrawals, shall continue to be insured for a period of six months to two years, as determined by the FDIC. Management is aware of no existing circumstances that would result in termination of Shinhan Bank America's deposit insurance.

Brokered Deposits. Under federal law and applicable regulations, (i) a well capitalized bank may solicit and accept, renew or roll over any brokered deposit without restriction, (ii) an adequately capitalized bank may not accept, renew or roll over any brokered deposit unless it has applied for and been granted a waiver of this prohibition by the FDIC and (iii) an undercapitalized bank may not (x) accept, renew or roll over any brokered deposit or (y) solicit deposits by offering an effective yield that exceeds by more than 75 basis points the prevailing effective yields on insured deposits of comparable maturity in such institution's normal market area or in the market area in which such deposits are being solicited. The term "undercapitalized insured depository institution" is defined to mean any insured depository institution that fails to meet the minimum regulatory capital requirement prescribed by its appropriate federal banking agency. The FDIC may, on a case-by-case basis and upon application by an adequately capitalized insured depository institution, waive the restriction on brokered deposits upon a finding that the acceptance of brokered deposits does not constitute an unsafe or unsound practice with respect to such institution. In December 2018, the FDIC sought public comment on aspects of FDIC's brokered deposit and interest rate regulations. The outcome of this request for comment on the FDIC's regulations in the future is uncertain. Shinhan Bank America had an aggregate amount of US\$35.61 million of brokered deposits outstanding as of December 31, 2018.

Community Reinvestment and Consumer Protection Laws. In connection with its lending activities, Shinhan Bank America is subject to a variety of federal laws designed to protect borrowers and promote lending to various sectors of the economy and population. Included among these are the Home Mortgage Disclosure Act, Real Estate Settlement Procedures Act, Truth-in-Lending Act, Equal Credit Opportunity Act, Fair Credit Reporting Act and CRA.

The CRA requires FDIC insured banks to define the assessment areas that they serve, identify the credit needs of those assessment areas and take actions that respond to the credit needs of the community. The FDIC must conduct regular CRA examinations of Shinhan Bank America and assign it a CRA rating of outstanding, satisfactory, needs improvement or unsatisfactory. Shinhan Bank America is also subject to provisions of the New York State Banking Law which impose similar obligations to serve the credit needs of its assessment areas. The Department and the FDIC each periodically assess a bank's compliance, and makes the assessment available to the public. Federal and New York State laws both require consideration of these ratings when reviewing a bank's application to engage in certain transactions, including mergers, asset purchases and the establishment of branch offices. A negative assessment may serve as a basis for the denial of any such application. Shinhan Bank America has received satisfactory ratings from both the Department and the FDIC.

The Dodd-Frank Act created the Consumer Financial Protection Bureau (the Bureau) with broad authority to regulate and enforce consumer protection laws. The Bureau has the authority to adopt regulations under numerous existing federal consumer protection statutes. The Bureau may also decide that a particular consumer financial product or service, or the manner in which it is offered, is an unfair, deceptive, or abusive act or practice. If the Bureau so decides, it has the authority to outlaw such act or practice.

Limitations on Dividends. The payment of dividends by Shinhan Bank America is subject to various regulatory requirements. Under New York State Banking Law, a New York-chartered stock bank may declare and pay dividends out of its net profits, unless there is an impairment of capital, but approval of the

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Superintendent of Banks is required if the total of all dividends declared in a calendar year would exceed the total of its net profits for that year combined with its retained net profits of the preceding two years, subject to certain adjustments.

Assessments. Banking institutions are required to pay assessments to both the FDIC and the Department to fund the operations of those agencies. The assessments are based upon the amount of Shinhan Bank America's total assets. Shinhan Bank America must also pay an examination fee to the Department when it conducts an examination.

Transactions with Related Parties. Shinhan Bank America's authority to engage in transactions with related parties or affiliates (i.e., any entity that controls or is under common control with an institution) is limited by Sections 23A and 23B of the Federal Reserve Act. Section 23A limits the aggregate amount of transactions with any individual affiliate to 10% of the capital and surplus of the institution and also limits the aggregate amount of transactions with all affiliates to 20% of the institution's capital and surplus. The term "affiliate" includes, for this purpose, us and any company that we control other than Shinhan Bank America and its subsidiaries.

Loans to affiliates must be secured by collateral with a value that depends on the nature of the collateral. The purchase of low quality assets from affiliates is generally prohibited. Loans and asset purchases with affiliates must be on terms and under circumstances, including credit standards, that are substantially the same or at least as favorable to the institution as those prevailing at the time for comparable transactions with nonaffiliated companies. In the absence of comparable transactions, such transactions may only occur under terms and circumstances, including credit standards that in good faith would be offered to or would apply to nonaffiliated companies. Shinhan Bank America's authority to extend credit to executive officers, directors and 10% shareholders, as well as entities controlled by such persons, is governed by Regulation O of the Federal Reserve Board. Regulation O generally requires such loans to be made on terms substantially similar to those offered to unaffiliated individuals (except for preferential loans made in accordance with broad based employee benefit plans), places limits on the amount of loans Shinhan Bank America may make to such persons based, in part, on Shinhan Bank America's capital position, and requires certain approval procedures to be followed.

Standards for Safety and Soundness. FDIC regulations require that Shinhan Bank America adopt procedures and systems designed to foster safe and sound operations in the areas of internal controls, information systems, internal and audit systems, loan documentation, credit underwriting, interest rate risk exposure, asset growth, asset quality, earnings and compensation, fees and benefits. Among other things, these regulations prohibit compensation and benefits and arrangements that are excessive or that could lead to a material financial loss. If Shinhan Bank America fails to meet any of these standards, it will be required to submit to the FDIC a plan specifying the steps that will be taken to cure the deficiency. If it fails to submit an acceptable plan or fails to implement the plan, the FDIC will require it to correct the deficiency and until corrected, may impose restrictions on it.

The FDIC has also adopted regulations that require Shinhan Bank America to adopt written loan policies and procedures that are consistent with safe and sound operation, are appropriate for its size, and must be reviewed by its board of directors annually. Shinhan Bank America has adopted such policies and procedures, the material provisions of which are discussed above as part of the discussion of our lending operations.

U.S. Regulation of Other U.S. Operations

In the United States, Shinhan Investment America Inc., our U.S.-registered broker-dealer subsidiary, is subject to regulations that cover all aspects of the securities business, including, sales methods, trade practices among broker-dealers, use and safekeeping of clients' funds and securities, capital structure; record-keeping, the financing of clients' purchases, and the conduct of directors, officers and employees.

Shinhan Investment America Inc. is regulated by a number of different government agencies and self-regulatory organizations, including the SEC and the Financial Industry Regulatory Authority (FINRA). Our

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U.S. subsidiaries are also regulated by some or all of the NYSE, the Municipal Securities Rulemaking Board, the U.S. Department of the Treasury, the Federal Reserve Board and the Commodities Futures Trading Commission. In addition, the U.S. states, provinces and territories have local securities commissions that regulate and monitor activities in the interest of investor protection. These regulators have a variety of sanctions available, including the authority to conduct administrative proceedings that can result in censure, fines, the issuance of cease-and-desist orders or the suspension or expulsion of the broker-dealer or its directors, officers or employees.

FINRA is dedicated to investor protection and market integrity through effective and efficient regulation and complementary compliance and technology-based services. FINRA covers a broad spectrum of securities businesses, including, registering and educating industry participants, examining securities firms, writing rules, enforcing those rules and the federal securities laws, informing and educating the investing public, providing trade reporting and other industry utilities, and administering a dispute resolution forum for investors and registered firms. It also performs market regulation under contract for the NASDAQ Stock Market, the American Stock Exchange and the Chicago Climate Exchange.

Many of the provisions of the Dodd-Frank Act discussed above will affect the operation of Shinhan Investment America, as well as our U.S. banking operations. Again, the impact of this statute on our operations will depend on the final regulations ultimately adopted by various agencies and oversight boards in coming years.

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ITEM 4.C. Organizational Structure

We currently have 15 direct and 26 indirect subsidiaries. The following diagram provides an overview of our organizational structure, including our significant subsidiaries and our ownership of such subsidiaries as of the date of this annual report:

- 1) Currently in liquidation proceedings.
- 2) We and our subsidiaries currently own 32.6% in the aggregate.
- 3) We and our subsidiaries currently own 34.6% in the aggregate.
- 4) We and our subsidiaries currently own 1.8% in the aggregate.
- 5) We and our subsidiaries currently own 18.9% in the aggregate.
- 6) We and our subsidiaries currently own 25.27% in the aggregate.

All of our subsidiaries are incorporated in Korea, except for the following:

Shinhan Asia Limited (incorporated in Hong Kong);

Shinhan Bank America (incorporated in the United States);

Shinhan Bank Canada (incorporated in Canada);

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Shinhan Bank (China) Limited (incorporated in the People's Republic of China);

Shinhan Bank Europe GmbH (incorporated in Germany);

Shinhan Bank Kazakhstan Limited (incorporated in Kazakhstan);

Shinhan Bank Japan (incorporated in Japan);

Shinhan Khmer Bank PLC (incorporated in Cambodia);

Shinhan Bank Vietnam Ltd. (incorporated in Vietnam);

PT Bank Shinhan Indonesia (incorporated in Indonesia);

Banco Shinhan de Mexico (incorporated in Mexico);

LLP MFO Shinhan Finance (incorporated in Kazakhstan);

PT Shinhan Indo Finance (incorporated in Indonesia);

Shinhan Microfinance Co., Ltd. (incorporated in Myanmar);

Shinhan Investment Corp., USA Inc. (incorporated in the United States);

Shinhan Investment Corp., Asia Ltd. (incorporated in Hong Kong);

Shinhan Securities Vietnam Co., Ltd. (incorporated in Vietnam);

PT Shinhan Sekuritas Indonesia (incorporated in Indonesia);

Shinhan Asset Management Indonesia (incorporated in Indonesia);

Shinhan BNP Paribas Asset Management (Hong Kong) Limited (incorporated in Hong Kong); and

Shinhan DS Vietnam Co. Limited (incorporated in Vietnam).

ITEM 4.D. Properties

The following table provides information regarding certain of our properties in Korea.

Type of Facility	Location	Area (In square meters)	
		Building	Site (If Different)
Registered office and corporate headquarters	20, Sejong-daero 9-gil, Jung-gu, Seoul, Korea 04513	59,519	5,418
Shinhan Investment Corp.	70, Yeoui-daero, Yeongdeungpo-gu, Seoul, Korea 07325	70,170	4,765
Shinhan Centennial Building	29, Namdaemun-ro 10-gil, Jung-gu, Seoul, Korea 04540	19,697	1,389
Shinhan Bank Gwanggyo Branch	54, Cheonggyecheon-ro, Jung-gu, Seoul, Korea 04540	16,727	6,783
Shinhan Myongdong Branch	43, Myeongdong-gil, Jung-gu, Seoul, Korea 04534	8,936	1,017
Shinhan Youngdungpo Branch	27, Yeongjung-ro, Yeongdeungpo-gu, Seoul, Korea 07301	6,171	1,983
Shinhan Back Office Support Center	1311, Jungang-ro, Ilsandong-gu, Goyang-si, Gyeonggi-do, Korea 10401	25,238	5,856
Shinhan Bank Back Office and Call Center	251, Yeoksam-ro, Gangnam-gu, Seoul, Korea 06225	40,806	7,964
Shinhan Bank Back Office and Storage Center	1221, Isunwhan-ro, Sangdang-gu, Cheongju-Si, Chungcheongbuk-do, Korea 28777	6,019	5,376

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Type of Facility	Location	Area (In square meters)	
		Building	Site (If Different)
Shinhan Card Yoksam-Dong Building	176, Yeoksam-ro, Gangnam-gu, Seoul, Korea 06248	7,348	1,185
Shinhan Data Center	67, Digital Valley-ro, Suji-gu, Yongin-si, Gyeonggi-do, Korea 16878	45,277	9,114
Shinhan Life Insurance headquarters	358, Samil-daero, Jung-gu, Seoul, Korea 04542	30,833	1,978

Our subsidiaries own or lease various land and buildings for their branches and sales offices.

As of December 31, 2018, Shinhan Bank had a countrywide network of 876 branches. Approximately 22.1% of these facilities were housed in buildings owned by us, while the remaining branches were leased properties. Lease terms are generally between two to three years and generally do not exceed five years. As of December 31, 2018, Jeju Bank had 38 branches of which we own 18 of the buildings in which the facilities are located, representing 47.4% of its total branches. Lease terms are generally between one to two years and seldom exceed five years.

As of December 31, 2018, Shinhan Card had 23 branches, all but one of which was leased. Lease terms are generally between one to two years. We also lease Shinhan Card's headquarters for a term of five years. As of December 31, 2018, Shinhan Investment had a nationwide network of 118 branches of which we own five of the buildings in which the facilities are located, representing 4.24% of its total branches in Korea. Lease terms are generally between one to two years. As of December 31, 2018, Shinhan Life Insurance had 155 branches which we leased for a term of generally one to two years.

The net book value of all the properties owned by us at December 31, 2018 was ₩2,680 billion. We do not own any material properties outside of Korea.

ITEM 4A. UNRESOLVED STAFF COMMENTS

We do not have any unresolved comments from the staff of the U.S. Securities and Exchange Commission regarding our periodic reports under the Securities Exchange Act of 1934, as amended.

ITEM 5. OPERATING AND FINANCIAL REVIEW AND PROSPECTS

You should read the following discussion and analysis of our financial condition and results of operations together with our consolidated financial statements and notes thereto included in this annual report. The following discussion is based on our consolidated financial statements, which have been prepared in accordance with IFRS.

ITEM 5.A. Operating Results**Overview**

We are one of the leading financial institutions in Korea in terms of total assets, revenues, profitability and capital adequacy, among others. Incorporated on September 1, 2001, we are the first privately-held financial holding

company to be established in Korea. Since inception, we have developed and introduced a wide range of financial products and services in Korea and aimed to deliver comprehensive financial solutions to clients through a convenient one-portal network. According to reports by the Financial Supervisory Service, we are the second largest financial services provider in Korea (as measured by consolidated total assets as of December 31, 2018) and operate the second largest banking business (as measured by consolidated total bank assets as of December 31, 2018) and the largest credit card business (as measured by total credit purchase volume in 2018) in Korea.

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Most of our assets are located in, and we generate most of our income from, Korea. Accordingly, our business and profitability are largely dependent on the general economic and social conditions in Korea, including interest rates, inflation, exports, personal expenditures and consumption, unemployment, demand for business products and services, debt service burden of households and businesses, the general availability of credit, the asset value of real estate and securities and other factors affecting the financial well-being of our corporate and retail customers. The Korean economy is closely integrated with, and is significantly affected by, developments in the global economy and financial markets. In recent years, the global economy and financial markets experienced adverse conditions and volatility, which also had an adverse impact on the Korean economy and in turn on our business and profitability. See Item 3.D. Risk Factors – Risks Relating to Our Overall Business – Difficult conditions and turbulence in the Korean and global economy and financial markets may adversely affect our business, asset quality, capital adequacy and earnings.

We derive most of our income from interest earned on our corporate and retail loans, net of funding costs (which primarily consist of interest payable on customer deposits). Net interest income is largely a function of the average volume of loans and the net interest spread thereon.

In 2017, the average volume of retail loans increased by 4.9% from 2016, primarily as a result of continued increase in the demand of home rental long-term deposits loans. The increase in retail loans continued to slow during 2017 as the Government, amid concerns about increasing household debt, continued its policies and measures designed to curb the rapid growth in the volume of mortgage and home equity loans in 2017. In 2017, the average volume of corporate loans increased by 5.3% from 2016, primarily as a result of increased demands from SOHO and small- and medium sized enterprises, particularly from those in the manufacturing industry.

In 2018, the average volume of retail loans increased by 9.1% from 2017, primarily as a result of continued increase in home rental long-term deposits loans. In 2018, the average volume of corporate loans increased by 7.8% from 2017, primarily as a result of increased loans to SOHO and small- and medium sized enterprises in the manufacturing, real estate and service industries.

From 2016 to 2017, the average yield on both retail loans and corporate loans increased primarily due to the increase in the base interest rate by the Bank of Korea in November 2017, while the average rate on deposits decreased since our deposits generally have longer maturity profiles than our retail and corporate loans and are therefore less sensitive to movements in base and market interest rates and also due to an increase in the proportion of low cost funding deposits such as liquidity core deposits. Shinhan Bank's net interest income increased by 10.8% from ₩4,504 billion in 2016 to ₩4,992 billion in 2017. Net interest income after provision for loan losses amounted to ₩3,848 billion and ₩4,508 billion in 2016 and 2017, respectively. Shinhan Bank's operating income increased by 12.6% from ₩1,959 billion in 2016 to ₩2,206 billion in 2017.

From 2017 to 2018, the average yield on both retail loans and corporate loans and the average rate on deposits increased primarily due to the increase in the base interest rate by the Bank of Korea in November 2017 and November 2018. Meanwhile, the increase in the average yield rate on retail and corporate loans was higher than that of deposits since our deposits generally have longer maturity profiles than our retail and corporate loans and are therefore less sensitive to movements in the base and market interest rates. Shinhan Bank's net interest income increased by 11.9% from ₩4,992 billion in 2017 to ₩5,586 billion in 2018. Net interest income after provision for loan losses amounted to ₩4,508 billion and ₩5,340 billion in 2017 and 2018, respectively. Shinhan Bank's operating income increased by 43.5% from ₩2,206 billion in 2017 to ₩3,165 billion in 2018.

As for Shinhan Card, its operating revenue is largely dependent on transaction volume and less sensitive to interest rate movements than our banking business, since merchant fees (representing a fixed percentage of a credit card purchase amount) provide a stable source of income and our credit card business enjoys more diversified sources of

funding, including commercial paper, corporate debentures (which have maturities longer than most bank deposit products) and asset-backed securitizations. The credit card transaction volume is largely dependent on the overall trends of the general Korean economy, such as general consumer spending patterns in

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Korea. Shinhan Card's operating revenues increased by 11.2% from ₩4,673 billion in 2016 to ₩5,197 billion in 2017, largely due to an increase in reversal of allowances for credit card loan losses. Shinhan Card's operating revenues decreased by 27.8% from ₩5,197 billion in 2017 to ₩3,752 billion in 2018, largely due to a decrease in fees and commission income as a result of the application of IFRS 15. Consideration payables to customers, which had previously been recognized as fees and commission expense, are now recognized as reductions of fees and commission income under IFRS 15. In addition, fees and commission income was further decreased as a result of the Government's policies to lower credit card merchant fees, which was partially offset by an increase in fees and commission income from lease operations resulting from Shinhan Card's efforts to diversify its revenue sources in response to such Government policies.

The following provides a discussion of the major trends surrounding the general economy and the financial services sector in Korea in 2018 and our current outlook for 2019 as they relate to our core businesses. The following discussion represents the subjective view of our management and may significantly differ from the actual results for 2019.

Trends in the Korean Economy

During the first half of 2018, the global economy showed continued signs of recovery, but momentum weakened during the second half of 2018. During the first half of 2018, major economies implemented quantitative easing and fiscal expansion policies, resulting in increased liquidity and the consequent rise in asset prices, driving strong to moderate growth and continued recovery for both major and emerging economies. During the first half of the year, major economies including the United States continued to experience strong growth, and China and India led the moderate growth of Asian economies. Economies relying primarily on raw material exports such as Russia and Brazil also began to shake off sluggishness. However, during the latter half of 2018, concerns over a general global economic slowdown arose amid slowing signs of growth in major economies, U.S. interest rate hikes and potential escalation and/or prolonging of the trade war between the U.S. and China as each country introduced tariffs on goods traded with the other. In particular, monetary tightening in major economies, such as the Federal Reserve Board's decision to increase interest rates and the European Central Bank's quantitative easing policies has had a dampening effect on asset prices, including stock prices and real estate assets, which has contributed to the weakening of consumer and investor sentiment.

In 2018, the Korean economy recorded a growth rate of 2.7% compared to a growth rate of 3.1% in 2017 due to sluggish economic growth as well as a decline in consumer sentiment during 2018 compared to 2017. Korea's annual growth rate of gross domestic product was 2.8% in the first quarter of 2018, 2.8% in the second quarter of 2018, 2.0% in the third quarter of 2018 and 3.1% in the fourth quarter of 2018. Exports continued to grow steadily in 2018, partly driven by an increase in exports of semiconductors. However, stronger regulations on household debt by the Government and reductions to the social overhead capital budget negatively affected the construction industry, and global and domestic demand for traditional manufacturing businesses including the automotive industry showed signs of decline which led to weaker levels of production and investments in infrastructure. Despite the Government's income based growth and employment policies, job creation levels dropped and unemployment rates rose to historic levels since the financial crisis, adversely affecting private consumption and consumer sentiment in the Korean economy. In 2019, the overall sluggishness in the Korean economy is expected to continue as investments in infrastructure are expected to remain weak and as exports and domestic consumption levels are expected to show signs of slowing. The growth in exports for semiconductors, which has been the main driver of exports in recent years, are expected to slow slightly due to an increase in supply from China, and a lower level of investments in infrastructure is expected to have a further dampening effect on investor sentiment surrounding the Korean economy. However, Government efforts to stimulate the economy, particularly policies towards increasing social overhead capital budget are expected to contribute to a recovery in the Korean economy and act as a buffer against dramatic

economic declines.

In 2019, we consider the following as potential risks to the Korean economy: (i) a prolonged slump in the Korean economy resulting from slowing of job creation and exacerbation of unemployment issues, particularly a

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rise in youth unemployment; (ii) China's slowing growth and the possibility of a hard landing for China; (iii) potential decline in productivity due to aging demographics and low birth rates; (iv) concerns within the financial sectors due to high levels of household debt; (v) uncertainty and volatility regarding the political and economic policies, including growing protectionism, of the United States and other major economies; (vi) the possibility of more rapid than expected increases in interest rates by the major economies; (vii) the increased volatility of foreign exchange markets due to the varying monetary policies of the global economies including increases in base interest rates; and (viii) political risks including political instability due to North Korea.

As for interest rate movements, since 2009, Korea, like many other countries, has experienced a low interest rate environment despite some marginal fluctuations, in part due to the Government's policy to stimulate the economy through active rate-lowering measures. Between 2009 and 2014, the base interest rate set by the Bank of Korea remained within the band between 2.00% and 3.25%. In an effort to support Korea's economy in light of the recent slowdown in Korea's growth and uncertain global economic prospects, the Bank of Korea reduced the base interest rate to 1.75% in March 2015, 1.50% in June 2015 and further reduced such rate to the historic low of 1.25% in June 2016. In November 2017, the Bank of Korea raised the base interest rate to 1.50%, marking the first time it increased the base interest rate since 2011, and in November 2018 further raised the base interest rate from 1.50% to 1.75%, citing concerns over household debt in the aggregate exceeding ₩1,500 trillion and potential outflow of funds due to the widening interest rate differential between the base interest rate of the Bank of Korea and the benchmark interest rate of the Federal Reserve Board. After increasing its benchmark interest rate three times during 2017, the Federal Reserve Board increased its benchmark interest rate four times during 2018, most recently to a range of 2.25% to 2.50% in December 2018 when it signaled that it expected to raise the benchmark interest rate another two times during 2019. The Bank of Korea's policy path of interest rates in 2019 and for the foreseeable future remains uncertain and will be affected in part by the policy path of the Federal Reserve Board, which also remains uncertain for the foreseeable future.

Recent Developments and Outlook for the Korean Financial Sector***Commercial Banking***

In 2018, major commercial banks in Korea continued to experience modest growth in terms of assets, principally due to continued growth in the demand for loans from both corporate and retail customers, particularly small- and medium-sized enterprises and other personal retail loans, despite weakened demand for mortgage loans due to Government measures including real estate measures aimed at curbing household debt. Asset quality also continued to improve in terms of delinquency and non-performing loan ratio. Net interest margin for commercial banks generally increased, largely due to an increase in market interest rates in 2017 resulting from increases in base interest rate by the Bank of Korea in November 2017 and November 2018.

In 2019, the Government is expected to further tighten regulations aimed at curbing household loans, which may pose as a potential limiting factor on the growth of commercial banks in Korea. In addition, the acceleration of digitalization, including as a result of the rapid growth of new competitors such as online service providers, technology companies and Internet-only banks introducing and operating financial platforms that did not exist in the past, have dismantled many of the traditional barriers among players in the financial industry and, together with social issues such as sluggish growth amid an aging population and low birthrates, have further intensified competition faced by commercial banks. The resulting competition is also expected to be more complex and go beyond traditional price based competition, requiring banks to focus on integrating their services with new and existing financial platforms in order to provide differentiated value. Government policies focusing on protection of financial consumers and encouraging inclusive financial policies are also expected to lead to further competition among banks for relevant businesses such as businesses to support the middle class, socially disadvantaged classes, small businesses and

startups. As there is increased risk of a decline in asset quality, particularly in an higher interest rate environment, we believe increased risk management capabilities will become increasingly important and have a more direct impact on the financial performance of commercial banks.

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In 2018, despite a steady increase in the total amount of card usage, credit card companies in Korea generally experienced a decline in net profits due to regulations such as decreases in the applicable rate of merchant fees for small- and medium-sized enterprises and reductions to the interest rates for loans. In addition, there were increasingly competitive offerings from Internet-only banks through accounts with lower merchant fees compared to conventional checking accounts.

In 2019, following the widespread usage of fintech, increased competition with Internet communications technology companies and other fintech related competitors is expected to continue. Government regulations aimed at reducing merchant fees chargeable by credit card companies are expected to put further downward pressure on the results of operations for credit card companies, and government initiatives including the launch of Zero Pay and plans to establish an open banking system are also expected to limit the growth potential for credit card companies in 2019. We believe that strengthening the competitiveness of our existing businesses, continuing to develop new sources of growth through the cultivation of new business opportunities, such as big data-related businesses, and expanding our businesses in global markets will be essential in an increasingly competitive market.

Securities

During the first half of 2018, the securities industry in Korea reported an increase in net profits due to an increase in fees and commissions resulting from a general rebound in the global stock markets. However, the volume of domestic transactions decreased during the second half of 2018 amid concerns over a general global economic slowdown, leading to a gradual decrease in brokerage commissions and hence revenue for securities firms in Korea.

In 2019, we expect various groups of competition to emerge as the scope of businesses security firms are permitted to take on become different according to the amount of available capital. Investment companies, which are classified into financial investment business entities and comprehensive financial investment business entities depending on the amount of available capital, are expected to differentiate their main business models according to the scope of business they are licensed to conduct. Due to increasing economic uncertainty and market volatility, it is expected that demand for asset management services will increase and, as such, wealth management capabilities will become increasingly important.

In order to enhance the competitiveness of Korea's capital market, the Government is implementing changes such as the liberalization of lending by financial investment companies, deregulation of private equity funds and introduction of the individual savings account (ISA) system. The Government is also planning to strengthen the capital market's international competitiveness through a restructuring of the Korea Exchange, including its transformation into a holding company. On the competitive side, we expect competition to remain intense as the securities brokerage industry is already overcrowded with relatively low barriers of entry, although the industry is showing some signs of consolidation (such as the sale of Woori Investment & Securities to NH Securities, the acquisition of IM Investment & Securities by Meritz Securities, the acquisition of KDB Daewoo Securities by Mirae Asset and the acquisition of Hyundai Securities by KB Financial Group). We expect that mergers and acquisitions and partnerships between banks and financial investment companies will continue to play a significant role in shaping the competitive landscape for the securities industry in Korea.

Due to low entry barriers, limited differentiation and standardized product offerings, competition in the securities industry is intense. The Government is working to implement measures to develop large scale financial investment companies in order to increase competitiveness and expand the number of potential growth opportunities for securities companies, and securities companies have been moving quickly to seize opportunities of consolidation and expansion.

In order to improve profitability, it is becoming increasingly important for companies in the securities industry to develop new profit models and product offerings that will allow differentiation and utilization of the company's unique strengths.

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In 2018, the life insurance industry's overall revenue increased slightly despite an increase in loss from insurance businesses, due to an increase in gains on investments.

In 2019, the life insurance industry's overall revenue is expected to remain stable or decrease slightly as factors such as slowing economic growth, aging population and low birthrates are expected to be mostly offset by a steady increase in demand for health insurance products and retirement pension insurance products and an increase in gains on investments following the trend of increasing interest rates. Under IFRS 17, which is expected to become effective beginning 2022, insurance contract liabilities will be calculated in terms of market value instead of book value, and life insurance companies may have significantly higher debt balances due to higher insurance liabilities, thereby resulting in a decrease in risk-based capital and the need for capital expansion. Competition is expected to remain intense as the life insurance industry in Korea is mature and saturated, and the ability to offer differentiated services in order to attract the growing population of the elderly and the retirees' products will continue to be an ever important competitive factor.

Asset Management

In 2018, the total amount of assets under management increased by 7.3% from ₩949.6 trillion in 2017 to ₩1,018.7 trillion in 2018, primarily due to an increase in private equity funds, including real estate funds and special asset funds. Operating profits increased slightly by 4.2% to ₩814.5 billion in 2018 due to an increase in fees and commissions primarily as a result of the increase in the total amount of assets under management, which was partially offset by a decrease in non-operating income.

In 2019, we expect the overall volume of the asset management industry to continue to grow, mainly driven by an expansion of the private fund market including pension funds and institutional investors, which is expected to continue to outpace the growth of the public fund market. The asset management industry is highly volatile and sensitive to the general trends in the overall cycles in the general economy and financial markets. Global market volatility is likely to remain intense given the geopolitical risks such as the ongoing trade disputes and Brexit. Investment in medium-risk, medium-return funds is expected to increase as retail investors tend to avoid high risk investments while the private fund market focusing on high net-worth clients is expected to continue to grow amid income polarization. Whereas the retail public fund market focusing on retail investors is shrinking, the demand for long-term investment funds such as individual pension trust and retirement pension trust is expected to continue to grow. In addition, socially responsible or environmental, social and governance investments are expected to grow amid implementation of the Korea Stewardship Code and similar initiatives and the resulting trend of increasing payouts by companies.

Specialized Credit

The specialized credit business was introduced in Korea in August 1997. The specialized credit business cannot accept customer deposits and generally involves providing a combination of four types of financing: equipment and facilities leasing, installment finance, new technology finance and credit card services, and sources funding primarily by issuing debentures and commercial papers. The specialized credit business generally targets customers with higher risk profile in return for higher return compared to customers of commercial banks, which makes risk management (including customer screening) a particularly key factor for commercial success of this business.

Due, in part, to the variety of services being offered and the broad range of potential customers, specialized credit providers often find it relatively easy to develop new customer segments and provide niche offerings. Due to the

relatively low barriers of entry, however, competition is intense and is expected to further intensify as a result of the commencement of automobile loan offerings by commercial banks and the expanded entry into personal loan markets by micro lenders. In addition, on September 30, 2015, the National Assembly of Korea

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passed an amendment to the Credit Finance Business Act, which, among other things, aims at alleviating restrictions on entry into the credit finance industry by lowering the minimum capital requirements for new entrants. In line with recent Government policies emphasizing productive finance, we expect that specialized credit providers will continue to focus their efforts on finding new business opportunities, including by expanding the new technology finance segment and selective overseas expansions.

Interest Rates

Interest rate movements, in terms of magnitude and timing as well as their relative impact on our assets and liabilities, have a significant impact on our net interest margins and profitability, particularly with respect to its financial products that are sensitive to such movements. For example, if the interest rates applicable to Shinhan Bank's loans (which are recorded as our assets) decrease at a faster pace or by a wider margin, or increase at a slower pace or by a thinner margin, compared to the interest rates applicable to its deposits (which are recorded as our liabilities), Shinhan Bank's net interest margin will shrink and its profitability will be negatively affected. In addition, the relative size and composition of Shinhan Bank's variable rate loans and deposits (as compared to our fixed rate loans and deposits) may also impact Shinhan Bank's net interest margin. Furthermore, the difference in the average repricing frequency of Shinhan Bank's interest-earning assets (primarily loans) compared to its interest-bearing liabilities (primarily deposits) may also impact its net interest margin. For example, since Shinhan Bank's deposits currently have a longer term, on average, than that of its loans, its deposits are on average less sensitive to movements in the base interest rates on which its deposits and loans tend to be pegged, and therefore, an increase in the base interest rates tends to increase its net interest margin while a decrease in the base interest rates tends to have the opposite effect. Since Shinhan Bank is one of our principal operating subsidiaries, its net interest margin and profitability have a substantial effect on our overall net interest margin and profitability. While we continually manage our assets and liabilities to minimize our exposure to the interest rate volatility, such efforts by us may not mitigate the impact of interest rate volatility in a timely or effective manner.

The interest rate charged to customers by our banking subsidiaries is based, in part, on the cost of funds index, or COFIX, which is published by the Korean Federation of Banks. COFIX is computed based on the weighted average interest of select funding products (including time deposits, housing and other installment savings deposits, repos, discounted bills and senior non-convertible financial debentures) of eight major Korean banks (comprised of Shinhan Bank, Kookmin Bank, Woori Bank, KEB Hana Bank, Nonghyup Bank, Industrial Bank of Korea, Citibank Korea and Standard Chartered Bank Korea). Each bank then independently determines the interest rate applicable to its respective customers by adding a spread to the COFIX based on the difference between the COFIX and such bank's general funding costs, administration fees, the customer's credit score, the maturity of the loan and other customer-specific premiums and discounts based on the customer relationship with such bank. These interest rates are typically adjusted on a monthly basis. In January 2019, the Financial Services Commission announced plans to reflect rates for short term deposits such as demand deposits when computing the cost of funds index, or COFIX, which is expected to result in lower interest rates for household loans compared to the previous COFIX rate.

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The following table shows certain benchmark Won-denominated borrowing interest rates as of the dates indicated.

	Corporate Bond Rates⁽¹⁾	Treasury Bond Rates⁽²⁾	Certificate of Deposit Rates⁽³⁾	COFIX Balance-Based⁽⁴⁾	COFIX New Borrowing-Based⁽⁵⁾
June 30, 2014	3.10	2.68	2.65	2.78	2.58
December 31, 2014	2.43	2.10	2.13	2.58	2.10
June 30, 2015	2.01	1.79	1.65	2.22	1.75
December 31, 2015	2.11	1.66	1.67	1.90	1.66
June 30, 2016	1.69	1.25	1.37	1.75	1.54
December 31, 2016	2.13	1.64	1.52	1.62	1.51
June 30, 2017	2.24	1.70	1.38	1.58	1.47
December 31, 2017	2.68	2.14	1.66	1.66	1.77
June 30, 2018	2.77	2.12	1.65	1.83	1.82
December 31, 2018	2.29	1.82	1.93	1.95	1.96

Source: Korea Financial Investment Association Bond Information Service

Notes:

- (1) Measured by the yield on three-year AA- rated corporate bonds.
- (2) Measured by the yield on three-year treasury bonds.
- (3) Measured by the yield on certificates of deposit (with maturity of 91 days).
- (4) Measured based on the weighted average of the borrowing rates for the monthly ending balances of the funding made by the commercial banks that are subject of the COFIX reporting.
- (5) Measured based on the weighted average of the borrowing rates for new funding for each month made by the commercial banks that are subject of the COFIX reporting.

Critical Accounting Policies

The notes to our consolidated financial statements contain a summary of our significant accounting policies, including a discussion of recently issued accounting pronouncements. Certain of these policies are critical to the portrayal of our financial condition, since they require management to make difficult, complex or subjective judgments, some of which may relate to matters that are inherently uncertain. We discuss these critical accounting policies below. The accounting policies set out below have been applied consistently to all periods presented in our consolidated financial statements included in this annual report, unless otherwise indicated.

Non-derivative Financial Assets

Classification, measurement and impairment of non-derivative financial assets has been amended due to the adoption of IFRS 9 Financial Instruments which became effective from January 1, 2018. As this report exhibits comparative financial statements prior to and after the adoption of the new standard, the critical accounting policies presented herein include information with regard to both IAS 39 and IFRS 9.

Non-derivative financial Assets classification and measurement policy applicable before January 1, 2018 under IAS 39

Financial assets are classified into four categories. (i) Financial assets at fair value through profit or loss (FVTPL) are financial assets that are held for trading or designated at fair value through profit or loss upon initial recognition. These financial assets are measured at fair value after initial recognition and the changes in the fair value are recognized through profit or loss of the period. Costs attributable to the acquisition are immediately expensed in the period. (ii) Held-to-maturity financial assets are non-derivative assets with fixed or determinable payments and fixed maturity that we have the positive intent and ability to hold to maturity. They

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are carried at amortized cost using the effective interest method after their initial recognition. (iii) Loans and receivables are financial assets with fixed or determinable payments that are not quoted in an active market. Such assets are recognized initially at fair value plus any directly attributable transaction costs. Subsequent to initial recognition, loans and receivables are measured at amortized cost using the effective interest method, less any impairment losses. (iv) Available-for-sale (AFS) financial assets are non-derivative financial assets that are designated as available-for-sale or are not classified as financial assets at fair value through profit or loss, held-to-maturity investments or loans and receivables. They are measured at fair value after their initial recognition.

Non-derivative financial Assets classification and measurement policy applicable from January 1, 2018 under IFRS 9

Under IFRS 9, non-derivative financial assets are classified and measured at fair value through profit or loss with the changes in fair value recognized in profit and loss as they arise, unless restrictive criteria are met for classifying and measuring the asset at either amortized cost (AC) or fair value through other comprehensive income (FVOCI). A financial asset shall be measured at FVOCI or at AC if both of the following conditions are met:

the objective of our business model is to hold assets only to collect cash flows, or to collect cash flows and to sell (the Business Model test); and

the contractual cash flows of an asset give rise to payments on specified dates that are solely payments of principal and interest (SPPI) on the principal amount outstanding (the SPPI test).

Despite meeting both criteria of the Business Model test and the SPPI test, we may, at initial recognition, irrevocably designate a financial asset as measured at fair value through profit or loss if doing so eliminates or significantly reduces a measurement or recognition inconsistency (sometimes referred to as an accounting mismatch). Hybrid financial instruments which do not meet the criteria of contractual cash flow characteristics such as convertible bonds, equity-linked securities and structured deposits were classified as FVTPL regardless of its business model because the accounting to bifurcate embedded derivatives from the host contract is not allowed under IFRS 9.

Also, a special designation for equity instruments is allowed at initial recognition that would otherwise be measured at fair value through profit or loss to present subsequent changes in fair value in other comprehensive income. It becomes important to distinguish these equity investments from other financial assets. IFRS 9 defines an equity investment as one meeting the definition of an equity instrument in IAS 32, *Financial Instruments: Presentation* i.e., any contract that evidences a residual interest in the assets of an entity after deducting all of its liabilities. Under IFRS 9, puttable instruments, which were previously classified as equity instruments in accordance with the exemption of IAS 32, are no longer qualified to be classified as equity instruments from the investor's perspective. Some equity stocks, equity investments and beneficiary certificates which had been included in available-for-sale equity instruments under IAS 39 were re-classified into FVTPL because of their puttable characteristics upon adoption of IFRS 9.

Valuation of Financial Assets and Liabilities

All financial assets are measured at fair value except held-to-maturity financial assets and loans and receivables under IAS 39 and financial assets at amortized cost under IFRS 9. The fair value of financial instruments being traded in an active market are determined by the published market prices at the end of each period. The published market prices of financial instruments being held by us are based on notifications by trading agencies. Where the market for a financial

instrument is not active, such as in the case of over-the-counter market derivatives, fair value is determined by using either a valuation technique or an independent third-party valuation service.

We use various valuation techniques and set rational assumptions based on the present market situations. Such valuation techniques may include using recent arm's length market transactions between knowledgeable

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and willing parties, if available, reference to the current fair value of another instrument that is substantially the same, discounted cash flow analysis or option pricing models. The main assumptions and estimates which our management considers when applying a model with valuation techniques are:

The likelihood and expected timing of future cash flows on the instrument. These cash flows are usually governed by the terms of the instrument, although judgment may be required when the ability of the counterparty to service the instrument in accordance with the contractual terms is in doubt. Future cash flows may be sensitive to changes in market rates.

Selecting an appropriate discount rate for the instrument. The determination of this rate is based on an assessment of what a market participant would regard as the appropriate spread of the rate for the instrument over the appropriate risk-free rate.

Judgment to determine what model should be used to calculate fair value in areas where the choice of valuation model is particularly subjective (for example, valuation of complex derivative products).

We classify and disclose fair value of financial instruments into the following three-level of IFRS fair value hierarchy:

Level 1: Financial instruments measured at quoted prices from active markets are classified as level 1.

Level 2: Financial instruments measured using valuation techniques where all significant inputs are observable market data are classified as level 2.

Level 3: Financial instruments measured using valuation techniques where one or more significant inputs are not based on observable market data are classified as level 3.

Impairment of Financial Assets

Under IAS 39, a financial asset (or in aggregate thereof) as of the end of the reporting period was considered to be impaired only when there was objective evidence of impairment as a result of one or more events that occurred after the initial recognition of the asset (a loss event) and that loss event (or events) has an impact on the estimated future cash flows of the financial asset or group of financial assets that can be reliably estimated. Losses expected as a result of future events, no matter how likely, were not recognized under IAS 39. However, after the adoption of IFRS 9, we changed our impairment policy to recognized loss allowance for expected credit loss, and therefore we have been recognizing impairment loss on a more forward-looking basis and in a more timely manner than we did previously.

As IFRS 9 is based on expected credit loss, we evaluate whether the credit risk on a financial asset has increased significantly since initial recognition at the end of each reporting period. When making such assessment, we use the change in the risk of a default occurring over the expected life of the financial asset instead of the change in the amount of expected credit losses. In order to make this assessment, we compare the risk of a default occurring on the financial asset as at the end of the reporting period with the risk of a default occurring on the financial asset as at the date of initial recognition, considering reasonable and supportable information that is available without undue cost or

effort and that demonstrates significant increases in credit risk since initial recognition. We consider changes in the risk of default estimated from changes in internal credit rating, qualitative factors, days of delinquency, and others as part of the evaluation criteria for significant increases in credit risk. For details, see Note 4 of the notes to our consolidated financial statements included in this annual report. Impairment losses under IAS 39 on the other hand were estimated on the basis of historical loss experience, and estimated future cash flows for financial assets, assessed collectively, were calculated based on impairment history of other similar financial assets with similar credit risk characteristics.

As for measurement model, IAS 39 determined whether to use an individual or collective assessment basis depending on the individual significance and the existence of objective evidence of impairment. However, IFRS 9 has three types of measurement models – general approach, impairment approach, or simplified approach,

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depending on whether the financial asset was already impaired at the date of initial recognition and the classification of financial asset. We apply the general approach to most of our loans at amortized cost. The general approach requires recognition of lifetime expected credit losses for all financial assets for which there have been significant increases in credit risk since initial recognition whether assessed on an individual or collective basis considering all reasonable and supportable information, including that which is forward-looking.

As for measurement items, impairment standards of IAS 39 were applied to loans and receivables, available-for-sale securities and held-to-maturity securities, respectively. However, expected credit losses under IFRS 9 are recognized on debt instruments at FVOCI or at AC, loan commitments and financial guarantee contracts regardless of whether the type of financial instrument is securities or loans or whether it is on-balance or off-balance. In addition, as all equity instruments under IFRS 9 are measured at FVTPL or at FVOCI and the amount recognized in other comprehensive income shall not be subsequently transferred to profit or loss, impairment standards of IFRS 9 are not applied to equity instruments. In contrast, under IAS 39, a significant or prolonged decline in fair value of an available-for-sale equity security below its cost was considered as objective evidence of impairment, and the cumulative other comprehensive gain or loss was realized to profit or loss.

Allowance for Loan Losses

Loans are classified as financial assets at amortized cost except certain loans whose contractual cash flows do not consist solely of payments of principal and interest on the principal amount outstanding. Under IAS 39, loans were only permitted to be classified as loans and receivables. Loans at amortized cost under IFRS 9 are and loans and receivables under IAS 39 were subject to the application of impairment standards. The allowance for loan losses has increased due to the adoption of IFRS 9 and the subsequent application of the new impairment model expected credit loss model (whereas IAS 39 previously applied the incurred loss model). The allowance for loan losses for the comparative financial statements as at the end of the period prior to adoption of the new standard were not restated, and the transition impact upon the initial adoption of IFRS 9 was recognized in retained earnings as of January 1, 2018.

The methodology for determining allowance for loan losses is as follows and is mainly focused on Shinhan Bank which holds the majority of our loan assets.

- Allowance for loan losses assessed individually

Allowance for loan losses assessed individually is based on the management's best estimate derived from present value of future cash flows that are expected to be collected from debt instruments subject to assessment. When forecasting these cash flows, we utilize all relevant information and financial circumstances available such as net realizable value of relevant collateral and operating cash flows of counterparties. Based on the individual significance, Shinhan Bank determines whether to apply individual or collective assessment collective assessment is applied for loans that are not individually significant or loans that are individually significant but do not have significant increases in credit risk. Individual assessment is applied for loans that have relatively large balances and which have had significant increase in credit risk or have become impaired. Under IAS 39, Shinhan Bank evaluated impaired loans with relatively large balances individually. Shinhan Bank classifies credit-impaired borrowers with loan amounts of over ₩3 billion as subject to individual assessment (quantitative criteria) and also considers certain other factors such as asset quality, financial ratios, audit opinions and signs of insolvency (qualitative criteria).

Meanwhile, retail loans are not subject to individual assessment as they are not significant in amount from Shinhan Bank's overall credit risk management perspective.

- Allowance for loan losses assessed collectively

Allowance for loan losses assessed collectively uses estimation model based on experience loss ratio in order to measure expected credit loss (incurred loss under IAS 39) embedded in portfolios. This model considers

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various factors such as the type of borrower, credit rating and maturity in order to apply Probability of Default (PD) of each financial asset (or in the aggregate), recovery rate per loan and collateral, as well as Loss Given Default (LGD). Additionally, we modelize the measurement of inherent loss and apply consistent assumptions in order to determine the input variables based on current circumstances and historical and forward-looking information. For forward-looking information, we utilize economic outlooks published by domestic and overseas research institutes or government and public agencies. We also reflect estimates of future macroeconomic conditions that we believe have been prepared without bias from a neutral viewpoint in measuring expected credit losses. The methodology and assumptions used in this model are reviewed on a regular basis in order to minimize the difference between estimated allowance for loan loss and actual loan loss.

Shinhan Bank uses a PD/LGD model for collective assessment using three risk components Exposure At Default (EAD), PD and LGD. EAD refers to the expected exposure at the time of default. EAD of financial assets are equal to the total carrying amount of such asset, and EAD of loan commitments or financial guarantee contracts are calculated as the sum of the amount already used and the amount expected to be used in the future.

As for measurement of PD by loan type, we estimate PD for corporate credit exposure based on internal credit ratings and PD for retail credit exposure based on Behavior Scoring System (BSS) ratings (which are largely based on the credit history of retail loan borrowers and predict such borrowers payment patterns) and product type. If there hasn't been a significant increase in credit risk since initial recognition, we use probability of default events occurring within the next 12 months. However if there has been a significant increase in credit risk, we use probability of default events occurring over the remaining lifetime of the loan.

LGD refers to the expected loss if a borrower defaults. We calculate LGD, where $LGD = (1 - RR)$, based on the Recovery Rate (RR) measured from past default exposures. The model for measuring LGD is developed to reflect type of collateral, seniority of collateral, type of borrower and cost of recovery. In particular, LGD for retail loan products use loan-to-value ratio as a key variable. The recovery rate reflected in the LGD calculation is based on the present value of recovery amount, discounted at the effective interest rate.

We believe that the accounting estimates related to impairment of loans at amortized cost and our allowance for loan losses are critical accounting policies because: (1) they are highly susceptible to change from period to period since they require us to make assumptions about future default rates and losses relating to our loan portfolio; and (2) any significant difference between our estimated losses on loans (as reflected in our allowance for loan losses) and actual losses on loans could require us to record additional provisions for loan losses which, if significant, could have a material impact on our profit. Our assumptions about estimated losses require significant judgment because actual losses have fluctuated in the past and are expected to continue to do so, based on a variety of factors.

Derivative Financial Instruments

Derivatives are recognized initially at fair value and attributable transaction costs are recognized in profit or loss as incurred. Subsequent to initial recognition, derivatives are measured at fair value, and changes therein are accounted for as described below.

Hedge Accounting

We hold derivative financial instruments to hedge our foreign currency and interest rate risk exposures. On initial designation of the hedge, we formally document the relationship between the hedging instrument(s) and hedged item(s), including the risk management objectives and strategy in undertaking the hedge transaction, together with the methods that will be used to assess the effectiveness of the hedging relationship. We make an assessment, both at the

inception of the hedge relationship as well as on an ongoing basis, whether the hedging instruments are expected to be highly effective in offsetting the changes in the fair value or cash flows of the respective hedged items during the period for which the hedge is designated, and whether the actual results of

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each hedge are within a range of 80-125%. For a cash flow hedge of a forecast transaction, the transaction should be highly probable to occur and should present an exposure to variations in cash flows that could ultimately affect reported net income.

IFRS 9 maintains the mechanics of hedge accounting (three types of hedge accounting) as defined in IAS 39 but modifies it such that it becomes less complex and more aligned with the actual way risks are managed as compared to IAS 39. Previous hedging relationships which hedge accounting had been applied under IAS 39 therefore still remain effective after adoption of IFRS 9.

Fair Value Hedges

When a derivative is designated as the hedging instrument in a hedge of the change in fair value of a recognized asset or liability or a firm commitment that could affect profit or loss, changes in the fair value of the derivative are recognized immediately in profit or loss together with changes in the fair value of the hedged item that are attributable to the hedged risk (in the same line item in the consolidated statements of comprehensive income as the hedged item).

If the hedging derivative expires or is sold, terminated or exercised, or the hedge no longer meets the criteria for fair value hedge accounting, or the hedge designation is revoked, hedge accounting is discontinued prospectively. Any adjustment arising from gain or loss on the hedged item attributable to the hedged risk is amortized to profit or loss from the date the hedge accounting is discontinued.

Cash Flow Hedges

When a derivative is designated as the hedging instrument in a hedge of the variability in cash flows attributable to a particular risk associated with a recognized asset or liability or a highly probable forecast transaction that could affect profit or loss, the effective portion of changes in the fair value of the derivative is recognized in other comprehensive income, net of tax, and presented in the hedging reserve in equity. The amount recognized in other comprehensive income is removed and included in profit or loss in the same period as the hedged cash flows affect profit or loss under the same line item in the consolidated statements of comprehensive income as the hedged item. Any ineffective portion of changes in the fair value of the derivative is recognized immediately in profit or loss.

If the hedging instrument no longer meets the criteria for hedge accounting, expires or is sold, terminated or exercised, or the designation is revoked, then hedge accounting is discontinued prospectively. The cumulative gain or loss on the hedging instrument that has been recognized in other comprehensive income from the period when the hedge was effective remains separately in equity until the forecast transaction occurs. When the transaction occurs, the related cumulative gain or loss on the hedging instrument recognized in other comprehensive income is reclassified from equity to profit or loss as a reclassification adjustment in the same period that the hedged item affects profit or loss. If the forecast transaction is no longer expected to occur, the cumulative gains or losses that had been recognized in other comprehensive income are immediately reclassified to profit or loss.

Net Investment in a Foreign Operation

Hedges of a net investment in a foreign operation, including a hedge of a monetary item that is accounted for as part of the net investment are recognized in other comprehensive income to the extent that the hedge is effective. To the extent that the hedge is ineffective, such differences are recognized in profit or loss. When the hedged part of a net investment is disposed of, in whole or in part, the gain or loss on hedging instrument relating to the effective portion of the hedge that has been recognized in other comprehensive income is reclassified from equity to profit or loss in accordance with IAS 21 *The Effects of Changes in Foreign Exchange Rates* .

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Intangible Assets

Goodwill

Goodwill that arises upon the acquisition of subsidiaries is included in intangible assets. Goodwill is measured at cost less accumulated impairment losses. In respect of associates, the carrying amount of goodwill is included in the carrying amount of the investment, and an impairment loss on such an investment is not allocated to any asset, including goodwill, that forms part of the carrying amount of the equity method accounted investee.

Impairment of Non-financial Assets

The carrying amounts of our non-financial assets, other than assets arising from employee benefits, deferred tax assets and assets held for sale, are reviewed at each reporting date to determine whether there is any indication of impairment. If any such indication exists, then the asset's recoverable amount is estimated. For goodwill, and intangible assets that have indefinite useful lives or that are not yet available for use, the recoverable amount is estimated each year at the same time.

The recoverable amount of an asset or cash-generating unit is the greater of its value in use and its fair value less costs to sell. In assessing value in use, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset. For the purpose of impairment testing, assets that cannot be tested individually are grouped together into the smallest group of assets that generates cash inflows from continuing use that are largely independent of the cash inflows of other assets or groups of assets (the cash-generating unit, or CGU).

An impairment loss is recognized if the carrying amount of an asset or its CGU exceeds its estimated recoverable amount. Impairment losses are recognized in profit or loss. Impairment losses recognized in respect of CGUs are allocated first to reduce the carrying amount of any goodwill allocated to the units, and then to reduce the carrying amounts of the other assets in the unit (group of units) on a pro rata basis.

An impairment loss in respect of goodwill is not reversed. In respect of other assets, impairment losses recognized in prior periods are assessed at each reporting date for any indications that the loss has decreased or no longer exists. An impairment loss is reversed if there has been a change in the estimates used to determine the recoverable amount. An impairment loss is reversed only to the extent that the asset's carrying amount does not exceed the carrying amount that would have been determined, net of depreciation or amortization, if no impairment loss had been recognized.

Goodwill that forms part of the carrying amount of an investment in an associate is not recognized separately, and therefore is not tested for impairment separately. Instead, the entire amount of the investment in an associate is tested for impairment as a single asset when there is objective evidence that the investment in an associate may be impaired.

Employee Benefits

Short-term Employee Benefits

Short-term employee benefit obligations are measured on an undiscounted basis and are expensed as the related service is provided.

A liability is recognized for the amount expected to be paid under short-term cash bonus or profit-sharing plans if we have a present legal or constructive obligation to pay this amount as a result of past service provided by the employee,

and the obligation can be estimated reliably.

Other Long-term Employee Benefits

Our net obligation in respect of long-term employee benefits other than pension plans is the amount of future benefit that employees have earned in return for their service in the current and prior periods; that benefit

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is discounted to determine its present value, and the fair value of any related assets is deducted. The discount rate is the yield at the reporting date on AA credit-rated bonds that have maturity dates approximating the terms of our obligations. The calculation is performed using the projected unit credit method. Any actuarial gains and losses are recognized in profit or loss in the period in which they arise.

Defined Benefit Plans

A defined benefit plan is a post-employment benefit plan other than a defined contribution plan. Our net obligation in respect of defined benefit plans is calculated by estimating the amount of future benefit that employees have earned in return for their service in the current and prior periods; that benefit is discounted to determine its present value. The fair value of plan assets is deducted. The calculation is performed annually by an independent actuary using the projected unit credit method.

Remeasurements of the net defined benefit liability, which comprise actuarial gains and losses, the return on plan assets (excluding interest) and the effect of the asset ceiling (if any, excluding interest), are recognized immediately in other comprehensive income. We determine the net interest expense (income) on the net defined benefit liability (asset) for the period by applying the discount rate used to measure the defined benefit obligation at the beginning of the annual period to the then-net defined benefit liability (asset), taking into account any changes in the net defined benefit liability (asset) during the period as a result of contributions and benefit payments. Net interest expense and other expenses related to defined benefit plans are recognized in personnel expenses in profit or loss.

The discount rate is the yield at the reporting date on high-quality corporate bonds that have maturity dates approximating the terms of our obligations and that are denominated in the same currency in which the benefits are expected to be paid. We recognize service cost and net interest on the net defined benefit liability (asset) in profit or loss and remeasurement of the net defined benefit liability (asset) in other comprehensive income.

When the benefits of a plan are changed or when a plan is curtailed, the resulting change in benefit that relates to past service or the gain or loss on curtailment is recognized immediately in profit or loss. We recognize gains and losses on the settlement of a defined benefit plan when the settlement occurs.

Defined Contribution Plans

A defined contribution plan is a post-employment benefit plan under which an entity pays fixed contributions into a separate entity and will have no legal or constructive obligation to pay further amounts. Obligations for contributions to defined contribution pension plans are recognized as an employee benefit expense in profit or loss in the periods during which services are rendered by employees. Prepaid contributions are recognized as an asset to the extent that a cash refund or a reduction in future payments is available.

Termination Benefits

Termination benefits are recognized as an expense when we are committed demonstrably, without realistic possibility of withdrawal, to a formal detailed plan to either terminate employment before the normal retirement date, or to provide termination benefits as a result of an offer made to encourage voluntary redundancy. Termination benefits for voluntary redundancies are recognized as an expense if we have made an offer of voluntary redundancy, it is probable that the offer will be accepted, and the number of acceptances can be estimated reliably. If benefits are payable more than 12 months after the reporting period, then they are discounted to their present value.

Share-based Payment Transactions

The grant date fair value of share-based payment awards granted to employees is recognized as an employee expense, with a corresponding increase in equity, over the period that the employees unconditionally become

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entitled to the awards. The amount recognized as an expense is adjusted to reflect the number of awards for which the related service and non-market vesting conditions are expected to be met, such that the amount ultimately recognized as an expense is based on the number of awards that do meet the related service and non-market performance conditions at the vesting date. For share-based payment awards with non-vesting conditions, the grant date fair value of the share-based payment is measured to reflect such conditions and there is no true-up for differences between expected and actual outcomes.

The fair value of the amount payable to employees in respect of share appreciation rights, which are settled in cash, is recognized as an expense with a corresponding increase in liabilities, over the period that the employees unconditionally become entitled to payment. The liability is remeasured at each reporting date and at settlement date. Any changes in the fair value of the liability are recognized as personnel expense in profit or loss.

Income Tax

Income tax expense comprises current and deferred tax. Current tax and deferred tax are recognized in profit or loss except to the extent that it relates to a business combination, or items recognized directly in equity or in other comprehensive income.

Current tax is the expected tax payable or receivable on the taxable income or loss for the year, using tax rates enacted or substantively enacted at the reporting date, and any adjustment to tax payable in respect of previous years. Taxable profit is different from accounting profit for the period since taxable profit excludes temporary differences (which will be taxable or deductible in determining taxable profit (tax loss) of future periods) and non-taxable or non-deductible items from accounting profit.

Deferred tax is recognized in respect of temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for taxation purposes. A deferred tax liability is recognized for all taxable temporary differences. A deferred tax asset is recognized for all deductible temporary differences to the extent that it is probable that there will be taxable profit against which such deductible temporary differences can be utilized. However, deferred tax is not recognized for the following temporary differences: (i) taxable temporary differences arising from the initial recognition of goodwill, (ii) the initial recognition of assets or liabilities in a transaction that is not a business combination and that affects neither accounting nor taxable profit or loss, and (iii) differences associated with investments in subsidiaries, associates, and interests in joint ventures, to the extent that we are able to control the timing of the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future. Deferred tax is measured at the tax rates that are expected to be applied to temporary differences when they reverse, based on the laws that have been enacted or substantively enacted by the reporting date. Deferred tax assets and liabilities are offset if there is a legally enforceable right to offset current tax liabilities and assets, and they relate to income taxes levied by the same tax authority on the same taxable entity, or on different tax entities, but they intend to settle current tax liabilities and assets on a net basis or their tax assets and liabilities will be realized simultaneously.

A deferred tax asset is recognized for unused tax losses, tax credits and deductible temporary differences, to the extent that it is probable that future taxable profits will be available against which they can be utilized. Deferred tax assets are reviewed at each reporting date and are reduced to the extent that it is no longer probable that the related tax benefit will be realized.

We file our national income tax return with the Korean tax authorities under the consolidated corporate tax system, which allows us to make national income tax payments based on our and our wholly owned domestic subsidiaries consolidated profits or losses. Deferred taxes are measured based on the future tax benefits expected to be realized in

consideration of the expected profits or losses of eligible companies in accordance with the consolidated corporate tax system. Consolidated corporate tax amounts, once determined, are allocated to each of our subsidiaries and are used as a basis for the income taxes to be recorded in their separate financial statements.

Table of Contents***Recently Adopted Standards and Interpretations******IFRS 9, Financial Instruments***

IFRS 9, published on September 25, 2015, is effective for annual periods beginning on or after January 1, 2018, with earlier adoption permitted. It replaces existing guidance in IAS 39, Financial Instruments: Recognition and Measurement. We have adopted IFRS 9 for the year beginning on January 1, 2018 and have recognized the accumulated effect resulting from the initial application of IFRS 9 starting January 1, 2018, the date of initial application.

Key features related to our management accounting estimates due to the change of this accounting standard are described above, and the transition effects of the adoption of this new standard are included in Note 60 of the notes to our consolidated financial statements included in this report. The implementation of IFRS 9 with effect from January 1, 2018 renders certain of our historical financial information as of and for the years ended December 31, 2015, 2016 and 2017 not directly comparable with that of our financial information after January 1, 2018.

IFRS 15, Revenue from Contracts with Customers

IFRS 15, published on November 6, 2015, is a new accounting standard on revenue recognition and is effective for annual reporting periods beginning on or after January 1, 2018, with earlier application permitted. IFRS 15 replaces existing revenue recognition standards, including IAS 18, Revenue, IAS 11, Construction Contracts, SIC-31, Revenue-Barter Transactions Involving Advertising Services, IFRIC 13, Customer Loyalty Programmes, IFRIC 15, Agreements for the Construction of Real Estate and IFRIC 18, Transfers of Assets from Customers.

We have adopted IFRS 15 from January 1, 2018 using the cumulative effect method, and the effect of initially applying this standard is recognized at January 1, 2018, the date of initial application.

The existing standards suggest revenue recognition guidance by type of transactions such as sale of goods, rendering of services, interest revenue, royalty revenue, dividends revenue and construction contracts. However, according to IFRS 15, all types of contracts recognize revenue through a five-step revenue recognition model: (i) identifying the contract, (ii) identifying performance obligations, (iii) determining the transaction price, (iv) allocating the transaction price to performance obligations and (v) recognizing the revenue by satisfying performance obligations.

Effects on equity as a result of initial application of IFRS 15 are included in Note 60 of the notes to our consolidated financial statements included in this annual report.

New Standards and Interpretations Not Yet Adopted***IFRS 16, Lease***

IFRS 16, enacted on May 22, 2017, is effective for annual reporting periods beginning on or after January 1, 2019 and may not be applied earlier. IFRS 16 replaces existing lease standards, including IAS 17 Leases, IFRIC 4, Determining whether an arrangement contains a lease, SIC-15 Operating lease: Incentive and SIC-27, Evaluating the substances of transactions involving the legal form of a lease.

At the inception of a contract, an entity shall assess whether the contract is, or contains, a lease. However, as a practical expedient, for contracts previously identified either as leases or not leases, an entity is not required to reassess whether the contract is, or contains, a lease at the date of initial application. For a contract that is, or contains,

a lease, a lessee or a lessor shall account for each lease component within the contract as a lease separately from non-lease components of the contract.

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A lessee shall recognize a right-of-use asset, which indicates an asset that represents a lessee's right to use an underlying asset for the lease term, and a lease liability, which indicates an obligation to make lease payments. However, a lessee may elect not to apply the requirements to short-term leases and leases for which the underlying asset is of low value. Also, as a practical expedient, a lessee may elect, by class of underlying asset, not to separate non-lease components from lease components and instead account for each lease component and any associated non-lease components as a single lease component. There has not been a material change in the accounting treatment for a lessor under IFRS 16 as compared to that under the existing standard IAS 17.

Average Balance Sheet and Volume and Rate Analysis***Average Balances and Related Interest***

The following table shows our average balances and interest rates, as well as the net interest spread, net interest margin and asset liability ratio, in 2016, 2017 and 2018.

	Year Ended December 31,									
	2016			2017			2018			
	Average	Interest		Average	Interest		Average	Interest		
	Balance ⁽¹⁾	Income/ Expense Yield / Rate		Balance ⁽¹⁾	Income/ Expense Yield / Rate		Balance ⁽¹⁾	Income/ Expense Yield / Rate		
(In billions of Won, except percentages)										
Assets:										
Interest-earning assets										
Due from banks ⁽²⁾	₩ 17,552	₩ 186	1.06%	₩ 10,726	₩ 168	1.56%	₩ 10,747	₩ 189	1.76%	
Loans ⁽³⁾										
Retail loans	101,092	3,236	3.20	105,998	3,416	3.22	115,622	4,029	3.48	
Corporate loans	126,891	4,117	3.24	133,602	4,395	3.29	144,063	5,154	3.58	
Public and other loans	2,261	73	3.23	2,126	70	3.30	2,486	87	3.49	
Loans to banks	5,898	96	1.64	5,430	112	2.05	4,915	122	2.48	
Credit card loans	18,804	1,708	9.09	19,943	1,681	8.43	21,527	1,790	8.32	
Total loans	254,946	9,230	3.62	267,099	9,674	3.62	288,613	11,182	3.87	
Securities ⁽⁴⁾	79,092	1,692	2.14	91,215	1,871	2.05	101,614	2,113	2.08	
Other interest-earning assets		128			86			88		
Total interest-earning assets	₩ 351,590	₩ 11,236	3.20%	₩ 369,040	₩ 11,799	3.20%	₩ 400,974	₩ 13,572	3.38%	
Non-interest-earning assets										

Cash and due from banks	₩	3,367			₩	10,844			₩	11,409					
Derivative assets		2,207				2,020				2,263					
Property and equipment and intangible assets		7,319				7,293				7,313					
Other non-interest-earning assets		22,539				23,089				24,328					
Total non-interest-earning assets	₩	35,432			₩	43,246			₩	45,313					
Total assets	₩	387,022	₩	11,236	₩	412,286	₩	11,799	₩	446,287	₩	13,572			
Liabilities:															
Interest-bearing liabilities															
Deposits															
Demand deposits	₩	30,865	₩	113	0.37%	₩	35,978	₩	129	0.36%	₩	37,714	₩	148	0.39%
Savings deposits		63,061		374	0.59		69,671		353	0.51		74,467		415	0.56
Time deposits		123,716		2,030	1.64		121,050		1,873	1.55		130,846		2,362	1.81
Other deposits		4,744		70	1.47		8,164		127	1.57		8,525		167	1.96
Total interest-bearing deposits		222,386		2,587	1.16		234,863		2,482	1.06		251,552		3,092	1.23
Trading Liabilities		10					2								
Borrowings		24,832		301	1.21		28,158		352	1.25		29,364		468	1.59

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	Year Ended December 31,								
	2016			2017			2018		
	Average	Interest		Average	Interest		Average	Interest	
	Balance ⁽¹⁾	Income/ Expense	Yield /Rate	Balance ⁽¹⁾	Income/ Expense	Yield /Rate	Balance ⁽¹⁾	Income/ Expense	Yield /Rate
(In billions of Won, except percentages)									
Debt securities issued	42,578	1,086	2.55	47,151	1,085	2.30	55,931	1,337	2.39
Other interest-bearing liabilities	2,897	57	1.99	3,276	37	1.09	3,213	95	2.98
Total interest-bearing liabilities	₩ 292,703	₩ 4,031	1.38%	₩ 313,450	₩ 3,956	1.26%	₩ 340,060	₩ 4,992	1.47%
Non-interest-bearing liabilities									
Non-interest-bearing deposits	₩ 3,336			₩ 3,574			₩ 3,547		
Derivatives liabilities	2,676			2,228			2,889		
Insurance liabilities	21,201			23,453			25,388		
Other non-interest-bearing liabilities	35,503			36,595			39,739		
Total non-interest-bearing liabilities	₩ 62,716			₩ 65,850			₩ 71,563		
Total liabilities	₩ 355,419	₩ 4,031		₩ 379,300	₩ 3,956		₩ 411,623	₩ 4,992	
Total equity attributable to equity holder of the Group	30,764			32,210			33,876		
Non-controlling interests	839			776			788		
Total liabilities and equity	₩ 387,022	₩ 4,031		₩ 412,286	₩ 3,956		₩ 446,287	₩ 4,992	
Net interest spread ⁽⁵⁾			1.82%			1.94%			1.91%
Net interest margin ⁽⁶⁾			2.05%			2.13%			2.14%
Average asset liability ratio ⁽⁷⁾			120.12%			117.73%			117.91%

Notes:

- (1) Average balances are based on (a) daily balances for Shinhan Bank and (b) quarterly balances for other subsidiaries.
- (2) Due from banks as of December 31, 2018 consists of due from banks at amortized cost and due from banks at fair value through profit or loss.
- (3) Non-accruing loans are included in the respective average loan balances. Income on such non-accruing loans is no longer recognized from the date the loan is placed on nonaccrual status. We reclassify loans as accruing when interest (including default interest) and principal payments are current. Loans as of December 31, 2018 consist of loans at amortized cost and loans at fair value through profit or loss.
- (4) Average balance of and yield on securities are based on book value. Securities as of December 31, 2018 consist of securities at fair value through profit or loss, securities at fair value through other comprehensive income and securities at amortized cost.
- (5) Represents the difference between the average rate of interest earned on interest-earning assets and the average rate of interest paid on interest-bearing liabilities.
- (6) Represents the ratio of net interest income to average interest-earning assets.
- (7) Represents the ratio of average interest-earning assets to average interest-bearing liabilities.

Table of Contents**Analysis of Changes in Net Interest Income – Volume and Rate Analysis**

The following table provides an analysis of changes in interest income, interest expense and net interest income between changes in volume and changes in rates for (i) 2018 compared to 2017 and (ii) 2017 compared to 2016. Volume and rate variances have been calculated on the movement in average balances and the change in the interest rates on average interest-earning assets and average interest-bearing liabilities in proportion to absolute volume and rate change.

	From 2017 to 2018		
	Volume	Rate	Change
	(In billions of Won)		
Increase (decrease) in interest income			
Due from banks	₩	₩ 21	₩ 21
Loans:			
Retail loans	323	290	613
Corporate loans	358	401	759
Public and other loans	12	5	17
Loans to banks	(11)	21	10
Credit card loans	132	(23)	109
Total loans	814	694	1,508
Securities	216	26	242
Other interest-earning assets		2	2
Total interest income	₩ 1,030	₩ 743	₩ 1,773
Increase (decrease) in interest expense			
Deposits:			
Demand deposits	₩ 6	₩ 13	₩ 19
Savings deposits	25	37	62
Time deposits	160	329	489
Other deposits	6	34	40
Total interest-bearing deposits	197	413	610
Borrowings	16	100	116
Debt securities issued	209	43	252
Other interest-bearing liabilities	(1)	59	58
Total interest expense	₩ 421	₩ 615	₩ 1,036
Net increase (decrease) in net interest	₩ 609	₩ 128	₩ 737

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	From 2016 to 2017		
	Interest Increase (Decrease) Due to		
	Change in		
	Volume	Rate	Change
	(In billions of Won)		
Increase (decrease) in interest income			
Due from banks	₩ (88)	₩ 70	₩ (18)
Trading assets	46	5	51
Loans:			
Retail loans	158	22	180
Corporate loans	220	58	278
Public and other loans	(4)	1	(3)
Loans to banks	(8)	24	16
Credit card loans	100	(127)	(27)
Total loans	466	(22)	444
Securities:			
Available-for-sale financial assets	84	(45)	39
Held-to-maturity financial assets	147	(58)	89
Total securities	231	(103)	128
Other interest-earning assets		(42)	(42)
Total interest income	₩ 655	₩ (92)	₩ 563
Increase (decrease) in interest expense			
Deposits:			
Demand deposits	₩ 18	₩ (2)	₩ 16
Savings deposits	37	(58)	(21)
Time deposits	(43)	(114)	(157)
Other deposits	53	4	57
Total interest-bearing deposits	65	(170)	(105)
Borrowings	41	10	51
Debt securities issued	111	(112)	(1)
Other interest-bearing liabilities	7	(27)	(20)
Total interest expense	₩ 224	₩ (299)	₩ (75)
Net increase (decrease) in net interest	₩ 431	₩ 207	₩ 638

Results of Operations*2018 Compared to 2017*

The following table sets forth, for the periods indicated, the principal components of our operating income.

	Year Ended December 31,		
	2017	2018	% Change
	(In billions of Won, except percentages)		
Net interest income	₩ 7,843	₩ 8,580	9.4%
Net fees and commission income	1,711	1,939	13.3
Net other operating income (expense)	(5,724)	(6,020)	5.2
Operating income	₩ 3,830	₩ 4,499	17.5%

Table of Contents*Net Interest Income*

The following table shows, for the periods indicated, the principal components of our net interest income.

	Year Ended December 31,		
	2017	2018	% Change
(In billions of Won, except percentages)			
Interest income:			
Cash and due from banks	₩ 168	₩ 189	12.5%
Loans	9,674	11,182	15.6
Securities	1,871	2,113	12.9
Other interest income	86	88	2.3
Total interest income	₩ 11,799	₩ 13,572	15.0%
Interest expense:			
Deposits	₩ 2,482	₩ 3,092	24.6%
Borrowings	352	468	33.0
Debt securities issued	1,085	1,337	23.2
Other interest expense	37	95	156.8
Total interest expense	₩ 3,956	₩ 4,992	26.2%
Net interest income	₩ 7,843	₩ 8,580	9.4%
Net interest margin ⁽¹⁾	2.13%	2.14%	

Note:

(1) Represents the ratio of net interest income to average interest-earning assets. See Average Balance Sheet and Volume and Rate Analysis Average Balances and Related Interest.

Interest income. Interest income increased by 15.0% from ₩11,799 billion in 2017 to ₩13,572 billion in 2018 primarily due to an increase in interest on loans and, to a lesser extent, an increase in interest on securities resulting from an increase in the average balance of government and public bonds. Interest on loans increased by 15.6% from ₩9,674 billion in 2017 to ₩11,182 billion in 2018 primarily as a result of increases in the average balances of and average lending rates on both retail loans and corporate loans as further described below.

Interest on retail loans increased by 17.9% from ₩3,416 billion in 2017 to ₩4,029 billion in 2018, primarily due to a 9.1% increase in the average balance of retail loans from ₩105,998 billion in 2017 to ₩115,622 billion in 2018 as well as an increase in the average lending rate for retail loans from 3.22% in 2017 to 3.48% in 2018. The average balance of retail loans increased primarily as a result of the relatively low interest rate environment and increased demand in the housing market despite stricter regulations on maximum debt-to-income and loan-to-value ratios implemented by the Government on mortgage loans. In particular, the volume of mortgage and home equity loans

increased as more households chose to purchase homes due to a continued increase in the amounts of long-term deposits required for housing rentals and a decrease in the supply of homes available for long-term deposit leases. The average lending rate for retail loans increased primarily as a result of the general increase in market interest rates largely driven by the increases in base interest rate by the Bank of Korea from 1.25% to 1.50% in November 2017 and from 1.50% to 1.75% in November 2018. The base rate set by the Bank of Korea largely determines the market rates for certificates of deposit, which in turn largely determines our lending rates for a substantial majority of our retail loans.

Interest income from corporate loans increased by 17.3% from ₩4,395 billion in 2017 to ₩5,154 billion in 2018, primarily due to a 7.8% increase in the average balance of such loans from ₩133,602 billion in 2017 to ₩144,063 billion in 2018, as well as an increase in the average lending rate for corporate loans from 3.29% in 2017 to 3.58% in 2018. The average balance of corporate loans increased principally as a result of increased loan

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demand from SOHOs and small- and medium-sized enterprises amid the Government's policy initiatives to promote the growth of such enterprises. The average lending rate for corporate loans increased largely as a result of the general increase in market interest rates as described above.

Interest expense. Interest expense increased by 26.2% from ₩3,956 billion in 2017 to ₩4,992 billion in 2018, due primarily to a 24.6% increase in interest expense on deposits from ₩2,482 billion in 2017 to ₩3,092 billion in 2018, as well as a 23.2% increase in interest expense on debt securities issued from ₩1,085 billion in 2017 to ₩1,337 billion in 2018.

The increase in interest expense on deposits was due to an increase in the average interest rate payable on deposits from 1.06% in 2017 to 1.23% in 2018 as well as an 8.1% increase in the average balance of deposits from ₩234,863 billion in 2017 to ₩251,552 billion in 2018. The increase in the average interest rate payable on deposits resulted mainly from an increase in the average interest rate payable on time deposits from 1.55% in 2017 to 1.81% in 2018, as well as an increase in the average interest rate payable on savings deposits from 0.51% in 2017 to 0.56% in 2018. The average interest rate payable on time and savings deposits increased largely as a result of a general increase in market interest rates reflecting the increase in the base interest rate set by the Bank of Korea. The increase in the average balance of deposits was primarily due to an 8.1% increase in the average balance of time deposits and a 6.9% increase in the average balance of saving deposits, which was largely a result of customers' preference for low-risk investments in light of the continuing uncertainty in financial markets.

The increase in interest expense on debt securities issued was due primarily to a 18.6% increase in the average balance of debt securities issued from ₩47,151 billion in 2017 to ₩55,931 billion in 2018 as well as an increase in the average interest rate payable on debt securities from 2.30% in 2017 to 2.39% in 2018. The average interest rate payable on debt securities issued increased largely due to the general increase in market interest rates in 2018.

Net interest margin. Net interest margin represents the ratio of net interest income to the average balance of interest-earning assets. Our overall net interest margin increased by 1 basis points from 2.13% in 2017 to 2.14% in 2018 largely due to the increase in net interest income described above outpacing the increase in the average volume of interest-earning assets as a result of the general increase in market interest rates largely driven by the increase in base interest rate by the Bank of Korea from 1.25% to 1.50% in November 2017 and 1.50% to 1.75% in November 2018.

Net interest spread, which represents the difference between the average rate of interest earned on interest-earning assets and the average rate of interest paid on interest-bearing liabilities, decreased by 3 basis points from 1.94% in 2017 to 1.91% in 2018 primarily due to a 21 basis point increase in the average rate of interest on interest-bearing liabilities and an 18 basis point increase in the average rate of interest on interest-earning assets. Although our interest-bearing liabilities have, on average, longer maturity profiles than our interest-earning assets do and are therefore less sensitive to movements in base and market interest rates, the average rate of interest on interest-bearing liabilities outpaced that of interest-earning assets primarily due to an 11 basis point decrease in the average interest rate on credit card receivables resulting from the effect of promotion providing lower interest rates as part of revenue diversification strategy of Shinhan Card. The average volume of interest-earning assets increased by 8.7% to ₩400,974 billion in 2018 from ₩369,040 billion in 2017 largely as a result of an increase in the volume of retail and corporate loans. The average volume of interest-bearing liabilities increased by 8.5% to ₩340,060 billion in 2018 from ₩313,450 billion in 2017 largely as a result of an increase in deposits, primarily driven by customers' preference for low-risk investments in light of the continuing uncertainty in financial markets and our effort to attract more low cost deposits.

Table of Contents*Fees and Commission Income (Expense), Net*

The following table shows, for the periods indicated, the principal components of our net fees and commission income.

	Year Ended December 31,		
	2017	2018	% Change
(In billions of Won, except percentages)			
Fees and commission income:			
Credit placement fees	₩ 59	₩ 63	6.8%
Commission received as electronic charge receipt	143	146	2.1
Brokerage fees	373	412	10.5
Commission received as agency	129	121	(6.2)
Investment banking fees	66	91	37.9
Commission received in foreign exchange activities	198	214	8.1
Asset management fees	191	235	23.0
Credit card fees	2,370	1,360	(42.6)
Others	516	653	26.6
Total fees and commission income	₩ 4,045	₩ 3,295	(18.5)%
Fees and commission expense:			
Credit-related fees	₩ 36	₩ 37	2.8%
Credit card fees	1,989	945	(52.5)
Others	309	374	21.0
Total fees and commission expense	₩ 2,334	₩ 1,356	(41.9)%
Net fees and commission income	₩ 1,711	₩ 1,939	13.3%

Net fees and commission income increased by 13.3% from ₩1,711 billion in 2017 to ₩1,939 billion in 2018 primarily as a result of a 23.0% increase in asset management fees income from ₩191 billion in 2017 to ₩235 billion in 2018. The increase in asset management fees income was primarily due to an increase in management fees received from specified money and real estate related trust accounts of Shinhan Bank.

Credit card fees expense decreased by 52.5% from ₩1,989 billion in 2017 to ₩945 billion in 2018, and credit card fees income decreased by 42.6% from ₩2,370 billion in 2017 to ₩1,360 billion in 2018. Such decrease in credit card fees income and expense was due to the application of IFRS 15. Under IFRS 15, amounts allocated to credit card points are considered payables to the customers and recognized as a reduction of fees and commission income, estimated as the fair value of the monetary benefits, taking into account the expected redemption rate. In addition, cardholder service fees paid to customers, which had previously been recognized as fees and commission expense, are recognized as reductions of fees and commission income under IFRS 15. However, these changes do not have a material effect on net fees and commission income as any such decrease in fees and commission income are offset by a corresponding decrease in fees and commission expense. For further details, see Note 60 of the notes to our consolidated financial statements included in this annual report.

Table of Contents*Other Operating Income (Expense), Net*

The following table shows, for the periods indicated, the principal components of our net operating expense.

	Year Ended December 31,		
	2017	2018	% Change
(In billions of Won, except percentages)			
Net insurance loss	₩ (460)	₩ (472)	2.6%
Dividend income	257	88	(65.8)
Net gain on financial instruments at fair value through profit or loss		420	
Net gain on financial instruments at fair value through profit or loss (overlay approach)		75	
Net trading income (loss)	963		
Net loss on financial instruments designated at fair value through profit or loss (IFRS 9)		(27)	
Net loss on financial instruments designated at fair value through profit or loss (IAS 39)	(1,060)		
Net foreign currency transaction gain	364	194	(46.7)
Net gain on disposal of financial asset at fair value through other comprehensive income		21	
Net gain on disposal of available-for-sale financial assets	499		
Provision for credit loss allowance		(748)	
Impairment loss on financial assets	(1,014)		
General and administrative expenses	(4,811)	(4,742)	(1.4)
Others	(462)	(829)	79.4
Other operating income (expense)	₩(5,724)	₩(6,020)	5.2%

Net other operating expenses increased by 5.2% to ₩6,020 billion in 2018 from ₩5,724 billion in 2017, primarily as a result of a 79.4% increase in others to ₩829 billion in 2018 from ₩462 billion in 2017 and a 65.8% decrease in dividend income to ₩88 billion in 2018 from ₩257 billion in 2017. Changes other than those mentioned are mainly due to changes in classification criteria of financial instruments as a result of the adoption of IFRS 9.

Others increased largely due to a decrease in loss allowances for unused credit limits of Shinhan Card. Dividend income decreased due to the change of classification criteria of debt instruments and equity instruments. IFRS 9 requires to classify puttable instruments such as beneficiary certificates as debt instruments which had been classified as equity instruments under previous IAS 39 and the income resulted from those financial instruments has been recognized as interest income accordingly, not dividend.

As a result of the adoption of IFRS 9, gains or losses on securities, which had previously recognized as (i) trading income or loss, (ii) gain or loss on financial instruments designated at FVTPL or (iii) gain or loss on sale of AFS securities, are now recognized as (i) valuation and disposal gain or loss on financial instruments at FVTPL, (ii) valuation and disposal gain or loss on financial instruments designated at FVTPL or (iii) valuation and disposal gain or loss on financial instruments at FVOCI. Following the adoption of IFRS 9, measurement model and measurement items specified in the impairment standard were changed. Allowance for expected credit losses are

required to be recognized for all debt instruments except those classified as financial assets at FVTPL, regardless of loans or securities. Equity instruments, on the other hand, are no longer subject to impairment assessment. As such, we recognized provision for credit loss allowance for loans at AC and debt securities at AC or FVOCI measured based on the expected credit loss model whereas we had previously recognized impairment loss for loans and equity instruments based on the incurred loss model. For further information, see Notes 2 and 60 of the notes to our consolidated financial statements included in this annual report.

Table of Contents*Impairment Loss on Financial Assets and Provision for Credit Loss Allowance on Financial Assets*

The following table sets forth for the periods indicated the impairment loss by type of financial asset. The table for the year ended December 31, 2018 has been presented separately due to the adoption of IFRS 9 from January 1, 2018.

	Year Ended December 31, 2018	
	(In billions of Won, except percentages)	
Loans:		
Retail	₩	383
Corporate		104
Credit card		202
Others		16
Subtotal		705
Securities ⁽¹⁾		14
Others		29
Total provision for credit loss allowance on financial assets	₩	748

Note:

(1) Consist of securities at amortized cost and securities at fair value through other comprehensive income.

	Year Ended December 31, 2017	
	(In billions of Won, except percentages)	
Loans:		
Retail	₩	146
Corporate		403
Credit card		252
Others		(1)
Subtotal		800
Securities ⁽¹⁾		198
Others		16
Total impairment loss on financial assets	₩	1,014

Note:

(1) Consist of available-for-sale financial assets.

We recognized provision for credit loss allowance of ₩748 billion in 2018 compared to net impairment loss on financial assets of ₩1,014 billion in 2017. For loans, we recognized provision for credit loss allowance for loans of ₩705 billion in 2018 compared to net impairment loss on loans of ₩800 billion in 2017. As of January 1, 2018, we increased our credit loss allowance for loans by ₩561 billion, from ₩2,311 billion to ₩2,872 billion, which was a result of the measurement model being changed from the incurred loss model under the previous guidance to a more forward-looking expected credit loss model upon adopting IFRS 9. The effect of such increase in credit loss allowance for loans was recorded in our retained earnings as of January 1, 2018. While the provision for credit loss allowance for loans in 2018 decreased compared to the net impairment loss on loans in 2017, which was mainly due to the reversal of impairment loss on certain corporate borrowers during 2018, credit loss allowance for loans increased to ₩2,725 billion as of December 31, 2018 under IFRS 9 from ₩2,311 billion as of December 31, 2017 under the previous guidance of IAS 39. For further information on the financial impact of IFRS 9 on our credit loss allowance, see Item 3.D. Risk Factors Risks Relating to Law, Regulation and Government Policy The implementation of IFRS 9 has caused us to increase our

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allowance for impairment losses to cover expected credit loss on our loan portfolio and other financial instruments and may increase volatility in our profit or loss. We also recognized provision for credit loss allowance for securities of ₩14 billion in 2018 compared to net impairment loss on securities of ₩198 billion in 2017, which was principally due to impairment loss on available-for-sale equity instruments, including, a significant decline in the fair value of ₩131 billion in Shinhan Bank's investments in Kookmin Cable Investment Inc. during 2017, which was the largest portion of impairment loss on securities, no longer being subject to impairment assessment upon the implementation of IFRS 9.

Income Tax Expense

Income tax expense increased by 49.5% from ₩848 billion in 2017 to ₩1,268 billion in 2018 primarily as a result of an increase in profit before income taxes by 17.6% to ₩4,466 billion in 2018 from ₩3,797 billion in 2017 as well as an increase in the corporate tax rate from 24.2% to 27.5%. Our effective rate of income tax increased to 28.4% in 2018 from 22.3% in 2017.

Net Income for the Period

As a result of the foregoing, our net income for the period increased by 8.4% from ₩2,949 billion in 2017 to ₩3,198 billion in 2018.

Other Comprehensive Income (loss) for the Period

	Year Ended December 31,		
	2017	2018	% Change
	(In billions of Won, except percentages)		
Items that are or may be reclassified to profit or loss:			
Valuation gain on financial asset at fair value through other comprehensive income	₩	₩ 161	%
Loss on financial instruments at fair value through profit or loss (overlay approach)		(54)	
Loss on available-for-sale financial assets	(323)		
Equity in other comprehensive income (loss) of associates	(23)	7	N/M
Foreign currency translation adjustments for foreign operations	(194)	20	N/M
Net change in unrealized fair value of cash flow hedges	16	(20)	N/M
Other comprehensive income (loss) of separate account	(9)	9	N/M
	(533)	123	N/M
Items that will never be reclassified to profit or loss:			
Remeasurements of defined benefit liability	103	(93)	N/M
Equity in other comprehensive income of associates	1		
Valuation gain on financial asset at fair value through other comprehensive income		23	
Loss on disposal of financial asset at fair value through other comprehensive income		(3)	
Changes in own credit risk on financial liabilities designated at fair value through profit of loss		2	

	104	(71)	N/M
Total other comprehensive income (loss), net of income tax	₩ (429)	₩ 52	N/M%

N/M = not meaningful

We recorded other comprehensive income of ~~₩~~52 billion in 2018 compared to other comprehensive loss of ~~₩~~429 billion in 2017. The items recognized in other comprehensive income were changed due to the adoption of

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IFRS 9, particularly related to classification and measurement of securities. We recognized valuation gain on financial asset at fair value through other comprehensive income of ₩184 billion in 2018 compared to loss on available-for-sale financial assets of ₩323 billion in 2017. We recognized gain on foreign currency translation adjustments for foreign operations of ₩20 billion in 2018 compared to loss on foreign currency translation adjustments for foreign operations of ₩194 billion in 2017, primarily due to an increase in exchange rates in 2018.

2017 Compared to 2016

The following table sets forth, for the periods indicated, the principal components of our operating income.

	Year Ended December 31,		
	2016	2017	% Change
	(In billions of Won, except percentages)		
Net interest income	₩ 7,205	₩ 7,843	8.9%
Net fees and commission income	1,566	1,711	9.3
Net other operating income (expense)	(5,662)	(5,724)	1.1
Operating income	₩ 3,109	₩ 3,830	23.2%

Net Interest Income

The following table shows, for the periods indicated, the principal components of our net interest income.

	Year Ended December 31,		
	2016	2017	% Change
	(In billions of Won, except percentages)		
Interest income:			
Cash and due from banks	₩ 186	₩ 168	(9.7)%
Trading assets	454	490	7.9
Financial assets designated at fair value through profit or loss	43	58	34.9
Loans	9,230	9,674	4.8
Available-for-sale financial assets	633	672	6.2
Held-to-maturity financial assets	562	651	15.8
Other interest income	128	86	(32.8)
Total interest income	₩ 11,236	₩ 11,799	5.0%
Interest expense:			
Deposits	₩ 2,587	₩ 2,482	(4.1)%
Borrowings	301	352	16.9
Debt securities issued	1,086	1,085	(0.1)
Other interest expense	57	37	(35.1)

Total interest expense	₩ 4,031	₩ 3,956	(1.9)%
Net interest income	₩ 7,205	₩ 7,843	8.9%
Net interest margin ⁽¹⁾	2.05%	2.13%	

Note:

(1) Represents the ratio of net interest income to average interest-earning assets. See Average Balance Sheet and Volume and Rate Analysis Average Balances and Related Interest.

Interest income. The 5.0% increase in interest income was due primarily to an increase in interest on loans. Interest on loans increased by 4.8% from ₩9,230 billion in 2016 to ₩9,674 billion in 2017 primarily as a result

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of increases in the average balances of and average lending rates on both retail loans and corporate loans as further described below, which was partially offset by a 32.8% decrease in other interest income from ₩128 billion in 2016 to ₩86 billion in 2017.

Interest on retail loans increased by 5.6% from ₩3,236 billion in 2016 to ₩3,416 billion in 2017, primarily due to a 4.9% increase in the average balance of retail loans from ₩101,092 billion in 2016 to ₩105,998 billion in 2017 as well as an increase in the average lending rate for retail loans from 3.20% in 2016 to 3.22% in 2017. The average balance of retail loans increased primarily as a result of a continued increase in demand for home rental long-term deposits loans following increased house prices in the domestic market. The average lending rate for retail loans increased primarily as a result of the general increase in market interest rates largely driven by the increase in the base interest rate set by the Bank of Korea to 1.50% in 2017 from 1.25% in 2016. The base rate set by the Bank of Korea largely determines the market rates for certificates of deposit, which in turn largely determines our lending rates for a substantial majority of our retail loans.

Interest income from corporate loans increased by 6.8% from ₩4,117 billion in 2016 to ₩4,395 billion in 2017, primarily due to a 5.3% increase in the average balance of such loans from ₩126,891 billion in 2016 to ₩133,602 billion in 2017, as well as an increase in the average lending rate for corporate loans from 3.24% in 2016 to 3.29% in 2017. The average balance of corporate loans increased principally as a result of increased loan demand from SOHOs and small- and medium-sized enterprises, which have recently become an increasing source of demand for our corporate loans. The average lending rate for corporate loans increased largely as a result of the general increase in market interest rates, as well as our efforts to diversify income structure, such as by developing products that provide a moderate interest rate while bearing relatively low risk.

Interest expense. Interest expense decreased by 1.9% from ₩4,031 billion in 2016 to ₩3,956 billion in 2017, due primarily to a 4.1% decrease in interest expense on deposits from ₩2,587 billion in 2016 to ₩2,482 billion in 2017, which was partially offset by a 16.9% increase in interest expense on borrowings from ₩301 billion in 2016 to ₩352 billion in 2017.

The decrease in interest expense on deposits was due to a decrease in the average interest rate payable on deposits from 1.16% in 2016 to 1.09% in 2017, which was partially offset by a 5.6% increase in the average balance of deposits from ₩222,386 billion in 2016 to ₩234,863 billion in 2017. The decrease in the average interest rate payable on deposits resulted mainly from a decrease in the average interest rate payable on time deposits from 1.64% in 2016 to 1.55% in 2017, as well as a decrease in the average interest rate payable on savings deposits from 0.59% in 2016 to 0.51% in 2017, largely reflecting a general decrease in market interest rates attributable to the decrease in the base interest rate set by the Bank of Korea in 2016, as well as an increase in the proportion of low cost funding deposits, namely liquidity core deposits, which are deposits with low interest rates. The average interest rate payable on time and savings deposits in 2017 was largely affected by the base interest rate set by the Bank of Korea in 2016 due to their longer maturity profiles. The increase in the average balance of deposits was primarily due to a 16.6% increase in the average balance of demand deposits, largely resulting from an increase in liquidity core deposits.

The increase in interest expense on borrowings was due to an increase in the average interest rate payable on borrowings from 1.21% in 2016 to 1.25% in 2017, as well as a 13.4% increase in the average balance of borrowings from ₩24,832 billion in 2016 to ₩28,158 billion in 2017. The average interest rate payable on borrowings increased largely due to the general increase in market interest rates in 2017. The average balance of borrowings increased due to an increase in borrowings from policy institutions as a result of an increase in demand for loans with government funds.

Net interest margin. Net interest margin represents the ratio of net interest income to the average balance of interest-earning assets. Our overall net interest margin increased by 8 basis points from 2.05% in 2016 to 2.13% in 2017 primarily due to a decrease in the average rate of interest on interest-bearing liabilities by 12 basis points from 1.38% in 2016 to 1.26% in 2017 as further explained below, which was partially offset by an increase in the

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average volume of interest-earning assets by 5.0% from ₩351,590 billion in 2016 to ₩369,040 billion in 2017 while the average rate of interest receivable on interest-earning assets remained stable.

Net interest spread, which represents the difference between the average rate of interest earned on interest-earning assets and the average rate of interest paid on interest-bearing liabilities, increased by 12 basis points from 2016 to 2017 primarily due to a 12 basis point decrease in the average rate of interest payable on interest-bearing liabilities, principally consisting of deposits and debt securities issued, from 1.38% in 2016 to 1.26% in 2017, which was largely attributable to lower funding costs associated with Won-denominated debt securities issued and other Won-denominated funding sources due to favorable market conditions, which allowed us to raise capital at lower interest rates, while the average rate of interest receivable on interest-earning assets, which primarily consist of Won-denominated loans and securities held by us, remained stable. In general, an increase in the base rates set by the Bank of Korea tends to increase our net interest margin since our deposits (on which we pay interest) have, on average, a longer maturity profile than our loans (from which we receive interest) do and are therefore less sensitive to movements in base and market interest rates. See [Overview](#) [Interest Rates](#).

Fees and Commission Income (Expense), Net

The following table shows, for the periods indicated, the principal components of our net fees and commission income.

	Year Ended December 31,		
	2016	2017	% Change
	(In billions of Won, except percentages)		
Fees and commission income:			
Credit placement fees	₩ 74	₩ 59	(20.3)%
Commission received as electronic charge receipt	137	143	4.4
Brokerage fees	334	373	11.7
Commission received as agency	131	129	(1.5)
Investment banking fees	66	66	
Commission received in foreign exchange activities	183	198	8.2
Asset management fees	116	191	64.7
Credit card fees	2,343	2,370	1.2
Others	420	516	22.9
Total fees and commission income	₩ 3,804	₩ 4,045	6.3%
Fees and commission expense:			
Credit-related fees	₩ 32	₩ 36	12.5%
Credit card fees	1,899	1,989	4.7
Others	307	309	0.7
Total fees and commission expense	₩ 2,238	₩ 2,334	4.3%
Net fees and commission income	₩ 1,566	₩ 1,711	9.3%

Net fees and commission income increased by 9.3% from ₩1,566 billion in 2016 to ₩1,711 billion in 2017, primarily as a result of a 64.7% increase in asset management fees income from ₩116 billion in 2016 to ₩191 billion in 2017 and a 11.7% increase in brokerage fees income from ₩334 billion in 2016 to ₩373 billion in 2017, which were partially offset by a 4.7% increase in credit card fees expenses.

The increase in asset management fees income was primarily due to an increase in trust fees and commissions received from trust accounts as a result of an increase in the volume of trust accounts of Shinhan Bank. The increase in brokerage fees income was primarily due to an increase in sales of collective investment products of Shinhan Bank and Shinhan Investment, as well as an increase in brokerage fees primarily due to increased daily average stock trading volume due to favorable stock market conditions in 2017.

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The increase in credit card fees expense was principally attributable to an increase in membership service fees and card member recruitment fees of Shinhan Card as part of its enhanced marketing efforts.

Other Operating Income (Expense), Net

The following table shows, for the periods indicated, the principal components of our net operating expense.

	Year Ended December 31,		
	2016	2017	% Change
(In billions of Won, except percentages)			
Net insurance loss	₩ (419)	₩ (460)	9.8%
Dividend income	282	257	(8.9)
Net trading income (loss)	370	963	160.3
Net foreign currency transaction gain	462	364	(21.2)
Net gain (loss) on financial instruments designated at fair value through profit or loss	(502)	(1,060)	111.2
Net gain on disposal of available-for-sale financial assets	648	499	(23.0)
Impairment loss on financial assets	(1,196)	(1,015)	(15.1)
General and administrative expense	(4,509)	(4,811)	6.7
Others	(798)	(462)	(42.1)
Other operating income (expense)	₩(5,662)	₩(5,725)	1.1%

Net other operating expenses increased by 1.1% to ₩5,725 billion in 2017 from ₩5,662 billion in 2016, primarily as a result of a 111.2% increase in net loss on financial instruments designated at fair value through profit or loss to ₩1,060 billion in 2017 from ₩502 billion in 2016 and a 6.7% increase in general and administrative expense to ₩4,811 billion in 2017 from ₩4,509 billion in 2016, which were partially offset by a 160.3% increase in net trading income to ₩963 billion in 2017 from ₩370 billion in 2016, as well as a 42.1% decrease in other expense to ₩462 billion in 2017 from ₩798 billion in 2016.

The increase in net loss on financial instruments designated at fair value through profit or loss was largely due to an increase in disposal loss from financial instruments designated at fair value through profit or loss held by Shinhan Investment. General and administrative expense increased primarily due to an increase in retirement allowances paid to early retirees of Shinhan Bank and Shinhan Card.

The increase in net trading income was primarily due to an increase in net gain on transactions and valuation of derivatives. The decrease in other expense was primarily due to an increase in reversal of allowances for credit card loan losses.

Table of Contents*Impairment Loss on Financial Assets*

The following table sets forth for the periods indicated the impairment loss by type of financial asset.

	Year Ended December 31,		
	2016	2017	% Change
	(In billions of Won, except percentages)		
Loans:			
Retail	₩ 135	₩ 146	8.1%
Corporate	656	403	(38.6)
Credit card	313	252	(19.5)
Others	(1)	(1)	
Subtotal	1,103	800	(27.5)
Securities ⁽¹⁾	88	198	125.0
Others	5	16	220.0
Total impairment loss on financial assets	₩ 1,196	₩ 1,014	(15.2)%

Note:

(1) Consist of available-for-sale financial assets.

Impairment loss on financial assets decreased by 15.2% from ₩1,196 billion in 2016 to ₩1,014 billion in 2017 principally due to a 27.5% decrease in impairment loss on loans from ₩1,103 billion in 2016 to ₩800 billion in 2017, which was partially offset by a 125% increase in impairment on securities from ₩88 billion in 2016 to ₩198 billion in 2017.

Our impairment loss on loans decreased primarily due to a 38.6% decrease in impairment loss on corporate loans from ₩656 billion in 2016 to ₩403 billion in 2017 and a 19.5% decrease in impairment loss on credit card loans from ₩313 billion in 2016 to ₩252 billion in 2017, which was partially offset by a 8.1% increase in impairment loss on retail loans from ₩135 billion in 2016 to ₩146 billion in 2017. The decrease in impairment loss on corporate loans was principally due to an improvement in the quality of corporate loans largely resulting from write-offs of non-performing loans with higher allowance rates during 2016. The decrease in impairment loss on credit card loans was principally due to an increase in reversal of allowances for credit card loan losses as a result of changing the allowance model of Shinhan Card from a roll-rate model in 2016 to an internal model approach in 2017. The increase in impairment loss on retail loans was principally due to increased exposure as a result of an increase in the volume of retail loans.

Substantially all of our impairment losses recorded on available-for-sale financial assets were related to the impairments of our available-for-sale equity investments primarily resulting from the decline in the market price or fair value of such investments. We recognized impairment losses on available-for-sale financial assets of ₩202,360 million in 2017, of which ₩147,630 million, or 73.0%, was due to a significant decline in our investment in Kookmin Cable Investment Inc. We recognized impairment losses on available-for-sale financial assets of ₩96,381 million in 2016, of which ₩29,032 million, or 30%, was due to a significant decline in our investment in

Samsung C&T Corporation. To a limited extent, we have also recognized impairment losses due to liquidation, bankruptcy proceedings, de-listing and other qualitative factors.

Income Tax Expense

Income tax expense increased by 145.1% from ₩346 billion in 2016 to ₩848 billion in 2017 primarily due to a decrease in tax income from recognition of deferred tax assets as we recognized significant deferred tax assets in 2016 relating to expired unused tax losses as well as due to an increase in our taxable income in 2017 compared to 2016. Our effective rate of income tax increased to 22.3% in 2017 from 10.9% in 2016.

Table of Contents*Net Income for the Period*

As a result of the foregoing, our net income for the period increased by 4.4% from ₩2,825 billion in 2016 to ₩2,949 billion in 2017.

Other Comprehensive Income for the Period

	Year Ended December 31,		
	2016	2017	% Change
(In billions of Won, except percentages)			
Items that are or may be reclassified to profit or loss:			
Foreign currency translation adjustments for foreign operations	₩ 12	₩ (194)	N/M%
Gain (loss) on available-for-sale financial assets	(434)	(323)	(25.6)
Equity in other comprehensive income (loss) of associates	3	(23)	N/M
Net change in unrealized fair value of cash flow hedges	(1)	16	N/M
Other comprehensive income (loss) of separate account	(4)	(9)	125.0
	(424)	(533)	25.7
Items that will never be reclassified to profit or loss:			
Remeasurements of defined benefit liability	15	103	586.7
Equity in other comprehensive income of associates		1	N/M
	15	104	593.3
Total other comprehensive loss, net of income tax	₩ (409)	₩ (429)	4.9%

N/M = not meaningful

Other comprehensive loss increased by 4.9% from ₩409 billion in 2016 to ₩429 billion in 2017, primarily due to a change in foreign currency translation differences for foreign operations from a net gain of ₩12 billion in 2016 to a net loss of ₩194 billion in 2017, which was partially offset by a 25.6% decrease in net loss arising from net change in fair value of available-for-sale financial assets from ₩434 billion in 2016 to ₩323 billion in 2017. The change in foreign currency translation differences for foreign operations from a net gain to a net loss was largely due to decreases in the exchange rates in 2017. The decrease in net loss on fair value of available-for-sale financial assets was largely due to fluctuations in interest rates and stock prices, as well as a decrease of adjustment amount reclassified from equity to profit or loss due to recognition of impairment losses and disposal.

Results by Principal Business Segment

As of December 31, 2018, we were organized into five major business segments as follows:

commercial banking services, which are principally provided by Shinhan Bank;

credit card services, which are principally provided by Shinhan Card;

securities brokerage services, which are provided by Shinhan Investment;

life insurance services, which are provided by Shinhan Life Insurance; and

other.

We report our segment information in accordance with the provisions of IFRS 8 (Operating Segments). We previously categorized our operating segments according to the legal entities of our subsidiaries. In order to actively adapt to the changing business environment and increase synergy, under our channel integration strategy called One Portal, we have focused on increasing crossover across different businesses and entities in the Group, including increasing crossover between our retail and corporate banking businesses, expanding our

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network of hybrid branches, expanding the traditional businesses of individual legal entities and developing combined products and services. In line with these changes, we realigned our reporting segments during 2016 from the previous legal entity based approach to a business based approach, and prior years reportable segment information has been restated accordingly. There has been no change in our total consolidated financial condition or results of operations previously reported as a result of the change in our segment structure. See Note 7 of the notes to our consolidated financial statements included in this annual report.

Operating Income by Principal Business Segment

The table below provides the income statement data for our principal business segments for the periods indicated.

	Year Ended December 31,			% Change	
	2016	2017	2018	2016/2017	2017/2018
	(In billions of Won, except percentages)				
Banking	₩ 1,860	₩ 2,089	₩ 3,047	12.3%	45.9%
Credit card	1,041	1,304	873	25.3	(33.1)
Securities	143	253	333	76.9	31.6
Life insurance	160	160	181		13.1
Others	(75)	32	102	N/M	218.8
Consolidation adjustment ⁽¹⁾	(20)	(8)	(37)	(60.0)	362.5
Total operating income	₩ 3,109	₩ 3,830	₩ 4,499	23.2%	17.5%

N/M = not meaningful

Note:

(1) Consolidation adjustment consists of adjustments for inter-segment transactions.

Banking Services

The banking services segment offers commercial banking and related services and includes: (i) retail banking, which consists of banking and other services provided primarily through the retail branches of Shinhan Bank and Jeju Bank to individuals and households; (ii) corporate banking, which consists of corporate banking products and services provided through Shinhan Bank's corporate banking branches to its corporate customers, most of which are small- and medium-sized enterprises and large corporations, including members of the *chaebol* groups; (iii) international banking, which primarily consists of the operations of Shinhan Bank's overseas subsidiaries and branches; and (iv) other banking, which primarily consists of treasury business for our banking business (including internal asset and liability management and other non-deposit funding activities), securities investing and trading and derivatives trading, as well as administration of our overall banking operations.

The table below provides the income statement data for our banking services segment for the periods indicated.

	Year Ended December 31,			% Change	
	2016	2017	2018	2016/2017	2017/2018
	(In billions of Won, except percentages)				
Net interest income (expense)	₩ 4,605	₩ 5,108	₩ 5,708	10.9%	11.7%
Net fees and commission income (expense)	717	817	851	13.9	4.2
Net other income (expense)	(3,462)	(3,836)	(3,512)	10.8	(8.4)
Operating income (expense)	₩ 1,860	₩ 2,089	₩ 3,047	12.3%	45.9%

Table of Contents*Comparison of 2018 to 2017*

Operating income for banking services increased by 45.9% from ₩2,089 billion in 2017 to ₩3,047 billion in 2018.

Net interest income (expense). Net interest income increased by 11.7% from ₩5,108 billion in 2017 to ₩5,708 billion in 2018 primarily due to increases in net interest income for retail banking, corporate banking, and international banking which was partially offset by a decrease in net interest income for other banking services. More specifically:

Net interest income for retail banking increased by 11.7% from ₩2,940 billion in 2017 to ₩3,285 billion in 2018 primarily due to an increase in Shinhan Bank's net interest margin as well as an increase in the average volume of retail loans. The increase in Shinhan Bank's net interest margin was largely due to the general increase in market interest rates largely driven by the increase in the base interest rate set by the Bank of Korea. The average volume of retail loans increased largely due to an increase in home mortgage loans.

Net interest income for corporate banking increased by 14.8% from ₩1,418 billion in 2017 to ₩1,628 billion in 2018 primarily due to increases in the average balance and the average lending rate of corporate loans. The average balance of corporate loans increased principally as a result of increased loan demand from SOHOs and small- and medium-sized enterprises amid the Government's policy initiatives to promote the growth of such enterprises. The average lending rate for corporate loans increased largely as a result of the general increase in market interest rates as described above.

Net interest income for international banking increased by 35.9% from ₩463 billion in 2017 to ₩629 billion in 2018 primarily due to an increase in the average balance of loans extended by Shinhan Bank's overseas subsidiaries, especially its subsidiaries in Vietnam.

Net interest income for other banking services decreased by 42.2% from ₩287 billion in 2017 to ₩166 billion in 2018.

Net fees and commission income (expense). Net fees and commission income increased by 4.2% from ₩817 billion in 2017 to ₩851 billion in 2018 primarily due to an increase in net fees and commission income for corporate banking and international banking services, which was partially offset by a decrease in net fees and commissions for other banking services. Net fees and commission income for corporate banking increased primarily due to an increase in investment banking fees and commissions principally resulting from an increased volume of mergers and acquisitions, SOC (social overhead capital) projects and other corporate transactions. Net fees and commission income for international banking services increased primarily due to an increase in credit cards fees and commissions charged by Shinhan Bank Vietnam. Net fees and commission income for other banking decreased primarily due to a decrease in fees and commissions related to beneficiary certificates.

Net other income (expense). Net other expense decreased by 8.4% from ₩3,836 billion in 2017 to ₩3,512 billion in 2018 due primarily to a decrease in net other expense for other banking services, which was partially offset by increases in net other expense for retail banking and international banking. Net other expense for other banking services decreased primarily as we recorded net gain on financial instruments at fair value through profit or loss in 2018 compared to net trading loss in 2017, which was partially offset by a decrease in income from foreign currency

transactions due to the decline in foreign currency exchange rates amid stronger valuation of the Won. Net other expense for retail banking and international banking increased primarily due to an increase in rental expenses due to an overall increase in rental fees and an increase in expenses related to the expansion of Shinhan Bank's overseas network.

Comparison of 2017 to 2016

Operating income for banking services increased by 12.3% from ₩1,860 billion in 2016 to ₩2,089 billion in 2017.

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Net interest income (expense). Net interest income increased by 10.9% from ₩4,605 billion in 2016 to ₩5,108 billion in 2017 primarily due to increases in net interest income for retail banking, corporate banking, international banking and other banking services. More specifically:

Net interest income for retail banking increased by 3.0% from ₩2,854 billion in 2016 to ₩2,940 billion in 2017 primarily due to an increase in the average volume of retail loans in addition to a widening of the Bank's net interest margin. The average volume of retail loans increased largely due to an increase in home rental long-term deposit loans and mortgage loans for new home purchases. The widening of net interest margin was largely due to an increase in liquidity core deposits, which are deposits with low interest rates, and the increase in market interest rates reflecting the increase in the base interest rate set by the Bank of Korea in 2017, which was increased from 1.25% in June 2016 to 1.50% in November 2017. The changes in the base interest rate generally have a greater impact on the average interest rate on loans relative to that of deposits due to the difference in relative maturity profiles.

Net interest income for corporate banking increased by 27.6% from ₩1,111 billion in 2016 to ₩1,418 billion in 2017 primarily due to an increase in the average balance of corporate loans. The increase in the average balance of corporate loans was largely due to the general increase in market interest rates and increased loan demand from SOHOs and small- and medium-sized enterprises, which have recently become an increasing source of demand for our corporate loans. The widening of the net interest margin was largely due to the increase in the market interest rates reflecting the increase in the base interest rates set by the Bank of Korea in 2017, as described above.

Net interest income for international banking increased by 26.5% from ₩366 billion in 2016 to ₩463 billion in 2017 primarily due to an increase in the average balance of loans extended by Shinhan Bank's overseas subsidiaries, especially its subsidiaries in China and Vietnam.

Net interest income for other banking services increased by 4.7% from ₩274 billion in 2016 to ₩287 billion in 2017 primarily due to the increase in the general level of interest rates.

Net fees and commission income (expense). Net fees and commission income increased by 13.9% from ₩717 billion in 2016 to ₩817 billion in 2017 primarily due to an increase in net fees and commission income for corporate banking and other banking services, which was partially offset by a decrease in net fees and commissions for retail banking services. Net fees and commission income for corporate banking increased primarily due to an increase in fees and commissions charged in relation to credit fees, brokerage and consulting fees. Net fees and commission income for other banking services increased primarily due to adjustments in internal fee allocation. Net fees and commission income for retail banking decreased primarily due to a decrease in fees and commission received on non-face-to-face transactions (online channels).

Net other income (expense). Net other expense increased by 10.8% from ₩3,462 billion in 2016 to ₩3,836 billion in 2017 due primarily to an increase in net other expense for other banking services, which was partially offset by decreases in net other expense for retail banking and international banking. Net other expense for other banking services increased primarily due to a decrease in gains on disposal of equity and debt securities and an increase in retirement allowances paid to early retirees. Net other expense for retail banking and international banking decreased primarily due to an increase in net foreign currency transaction gain, which was primarily driven by an increase in net

valuation gain on foreign-currency denominated assets and liabilities resulting from currency fluctuations during 2017.

Table of Contents**Credit Card Services**

The credit card services segment consists of the credit card business of Shinhan Card, including its installment finance and automobile leasing businesses.

	Year Ended December 31,			% Change	
	2016	2017	2018	2016/2017	2017/2018
(In billions of Won, except percentages)					
Income statement data					
Net interest income (expense)	₩ 1,485	₩ 1,501	₩ 1,583	1.1%	5.5%
Net fees and commission income (expense)	409	359	433	(12.2)	20.6
Net other income (expense)	(853)	(556)	(1,143)	(34.8)	105.6
Operating income (expense)	₩ 1,041	₩ 1,304	₩ 873	25.3%	(33.1)%

Comparison of 2018 to 2017

Operating income for the credit card business decreased by 33.1% from ₩1,304 billion in 2017 to ₩873 billion in 2018.

Net interest income increased by 5.5% primarily due to an increase in interest income resulting from an increase in the average balance of credit card receivables, which was partially offset by an increase in interest expense on borrowings and bonds resulting from increases in the average balances of such liabilities amid increased need for working capital following asset growth. The average balance of credit card receivables increased in accordance with our strategy of diversifying our revenue structure to promote credit card loans and cash advances in response to decreased merchant fee rates resulting from Government policies lowering merchant fees chargeable by credit card companies.

Net fees and commission income increased by 20.6% primarily as a result of an increase in fees and commission income from lease operations as part of the revenue diversification strategy described above.

Net other expense increased by 105.6% primarily due to an increase in provision for credit loss allowance. Provision for credit loss allowance increased primarily as a result of an increase in the balance of credit card receivables as well as an increase in the proportion of assets with relatively high allowance rates, such as card loans and cash advances.

Comparison of 2017 to 2016

Operating income for the credit card business increased by 25.3% from ₩1,041 billion in 2016 to ₩1,304 billion in 2017.

Net interest income increased by 1.1% primarily due to a decrease in interest expense resulting from a decrease in the average borrowing rate, which was partially offset by the decrease in the average balance of cash advances and an increase in the usage of interest-free installment payment programs (under which no interest is charged on credit card purchases for a limited duration, typically up to three months).

Net fees and commission income decreased by 12.2% primarily as a result of an increase in fees and commission expense due to an increase in membership service fees and card member recruitment fees as part of Shinhan Card's

enhanced marketing efforts, which was partially offset by an increase in fees and commission income due to an increase in debit card merchant fees and annual fees.

Net other expense decreased by 34.8% primarily as a result of an increase in reversal of allowances for credit card loan losses and an increase in gains from net foreign currency transactions, which was partially offset by an increase in general administrative expenses such as payroll expenses, bonuses and retirement allowances paid to early retirees.

Table of Contents**Securities Brokerage Services**

Securities brokerage services segment primarily reflects securities brokerage and dealing services on behalf of customers, which is conducted by Shinhan Investment, our principal securities brokerage subsidiary.

	Year Ended December 31,			% Change	
	2016	2017	2018	2016/2017	2017/2018
(In billions of Won, except percentages)					
Income statement data					
Net interest income (expense)	₩ 391	₩ 433	₩ 429	10.7%	(0.9)%
Net fees and commission income (expense)	249	298	389	19.7	30.5
Net other income (expense)	(497)	(478)	(485)	(3.8)	1.5
Operating income (expense)	₩ 143	₩ 253	₩ 333	76.9%	31.6%

Comparison of 2018 to 2017

Operating income for securities brokerage services increased by 31.6% from ₩253 billion in 2017 to ₩333 billion in 2018.

Net interest income decreased by 0.9% due primarily to an increase in the average volume of debt securities issued resulting from the issuance of unguaranteed corporate bonds and subordinated bonds, which was partially offset by an increase in the average volume of beneficiary certificates resulting from an increase in investments in fund of funds.

Net fees and commission income increased by 30.5% due primarily to an increase in brokerage fees income resulting from increased daily average stock trading volume amid favorable stock market performance in 2018, as well as an increase in fees and commission income related to investment banking business such as financial guarantee fees and underwriting fees as a result of an expansion of our investment banking business.

Net other expense increased by 1.5% due primarily to an increase in employee costs such as performance-linked incentives resulting from an increase in operating income as compared to the prior year.

Comparison of 2017 to 2016

Operating income for securities brokerage services increased by 76.9% from ₩143 billion in 2016 to ₩253 billion in 2017.

Net interest income increased by 10.7% due primarily to an increase in the volume of loans due to Shinhan Investment's new qualification as a comprehensive financial investment business entity, allowing Shinhan Investment to make loans directly to corporate customers.

Net fees and commission income increased by 19.7% due primarily to an increase in brokerage fees income resulting from an increase in sales of foreign bonds and collective investment funds as well as increased daily average stock trading volume as a result of favorable stock market performance in 2017.

Net other expense decreased by 3.8% due primarily to an increase in net gain on transactions and valuation of derivatives, which was partially offset by an increase in net loss on financial instruments designated at fair value through profit or loss.

Table of Contents**Life Insurance Services**

Life insurance services segment consists of life insurance services provided by Shinhan Life Insurance.

	Year Ended December 31,			% Change	
	2016	2017	2018	2016/2017	2017/2018
	(In billions of Won, except percentages)				
Income statement data					
Net interest income (expense)	₩ 704	₩ 728	₩ 762	3.4%	4.7%
Net fees and commission income (expense)	19	53	70	178.9	32.1
Net other income (expense)	(563)	(621)	(651)	10.3	4.8
Operating income (expense)	₩ 160	₩ 160	₩ 181	%	13.1%

Comparison of 2018 to 2017

Operating income for life insurance services increased by 13.1% from ₩160 billion in 2017 to ₩181 billion in 2018.

Net interest income increased by 4.7% due primarily to an increase in interest income from investments on government and public bonds resulting from an increase in the average volume of such assets. Our purchases of long-term government bonds increased in accordance with our strategy to extend asset duration.

Net fees and commission income increased by 32.1% due primarily to an increase in fees and commission related to contracts transferred from separate accounts to general accounts. Where a beneficiary reaches the eligible age for receiving pension payments, balances in the separate accounts are transferred to general accounts and we recognize such balance as fees and commission income.

Net other expense increased by 4.8% from ₩621 billion in 2017 to ₩651 billion in 2018 primarily due to an increase in insurance contract cancellations as well as a decrease in premiums received for new contracts underwritten, which was partially offset by a decrease in provisions for insurance reserves resulting from such changes.

Comparison of 2017 to 2016

Operating income for life insurance services remained stable from ₩160 billion in 2016 to ₩160 billion in 2017.

Net interest income increased by 3.4% due primarily to an increase in interest income from investments of held-to-maturity overseas finance debentures as the average volume of such assets increased during the year.

Net fees and commission income increased by 178.9% due primarily to an increase in fee income earned from our management of separate accounts resulting from an increase in the volume of separate accounts.

Net other expense increased by 10.3% from ₩563 billion in 2016 to ₩621 billion in 2017 primarily due to an increase in insurance contract cancellations, which was partially offset by a decrease in provisions for insurance reserves resulting from such increase in insurance contract cancellations.

Others

Other segment primarily reflects all other activities of Shinhan Financial Group, as the holding company, and our other subsidiaries, including the results of operations of Shinhan Capital, Shinhan Credit Information,

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Shinhan BNP Paribas Asset Management, Shinhan Alternative Investment Management, Shinhan Savings Bank, Shinhan REITs Management and back-office functions maintained at the holding company.

	Year Ended December 31,			% Change	
	2016	2017	2018	2016/2017	2017/2018
	(In billions of Won, except percentages)				
Net interest income (expense)	₩ 13	₩ 69	₩ 96	430.8%	39.1%
Net fees and commission income (expense)	169	181	199	7.1	9.9
Net other income (expense)	(257)	(218)	(193)	(15.2)	(11.5)
Operating income (expense)	₩ (75)	₩ 32	₩ 102	N/M%	218.8%

N/M = not meaningful

Comparison of 2018 to 2017

Operating income for others increased by 218.8% from ₩32 billion in 2017 to ₩102 billion in 2018.

Net interest income increased by 39.1% from ₩69 billion in 2017 to ₩96 billion in 2018 primarily due to an increase in interest income from consolidated structured entities resulting from an increase in the number of consolidated structured entities, and, to a lesser extent, an increase in interest income from Shinhan Savings Bank due to an increase in its average balance of total loans.

Net fees and commission income increased by 9.9% primarily due to increased fees and commission income recognized by Shinhan REITs Management, which was incorporated in October 2017.

Net other expense decreased by 11.5% from ₩218 billion in 2017 to ₩193 billion in 2018, primarily due to a decrease in provision for credit loss allowance of loans by Shinhan Capital resulting from a decrease in the volume of loans provided for the financing of shipment projects.

Comparison of 2017 to 2016

We recorded operating income for others of ₩32 billion in 2017 compared to operating expense of ₩75 billion in 2016.

Net interest income increased by 430.8% from ₩69 billion in 2017 to ₩13 billion in 2016 primarily due to an increase in interest income received from trading government and public bonds and corporate bonds of consolidated structured entities as the average volume of such assets increased during the year, and, to a lesser extent, an increase in interest income from Shinhan Savings Bank due to an increase in its average balance of total loans.

Net fees and commission income increased by 7.1% primarily due to an increase in asset management fees from Shinhan BNP Paribas Asset Management as a result of an increase in the average volume of assets under management.

Net other expense decreased by 15.2% from ₩257 billion in 2016 to ₩218 billion in 2017, primarily due to a decrease in recognition of provisions for loan losses from Shinhan Capital resulting from a decrease in the volume of loans provided for the financing of shipment projects, which was partially offset by an increase in recognition of provision for loan losses of Shinhan Savings Bank.

Table of Contents**Financial Condition****Assets**

The following table sets forth, as of the dates indicated, the principal components of our assets.

	As of December 31,			% Change	
	2016	2017	2018	2016/2017	2017/2018
	(In billions of Won, except percentages)				
Cash and due from banks at amortized cost	₩	₩	₩ 17,349	%	%
Cash and due from banks	19,181	22,669		18.2	
Financial assets at fair value through profit or loss			43,535		
Trading assets	26,696	28,464		6.6	
Financial assets designated at fair value through profit or loss (IAS 39)	3,416	3,579		4.8	
Derivative assets	3,003	3,400	1,794	13.2	(47.2)
Securities at fair value through other comprehensive income			38,314		
Available-for-sale financial assets	37,663	42,117		11.8	
Securities at amortized cost			28,478		
Held-to-maturity financial assets	19,805	24,991		26.2	
Loans at amortized cost			299,609		
Loans	259,011	275,566		6.4	
Property and equipment	3,146	3,022	3,004	(3.9)	(0.6)
Intangible assets	4,227	4,273	4,320	1.1	1.1
Investments in associates	354	631	671	78.2	6.3
Current tax receivables	13	25	45	92.3	80.0
Deferred tax assets	641	592	427	(7.6)	(27.9)
Investment property	353	418	475	18.4	13.6
Other assets	18,167	16,552	21,572	(8.9)	30.3
Assets held for sale	4	8	8	100.0	
Total assets	₩ 395,680	₩ 426,307	₩ 459,601	7.7%	7.8%

2018 Compared to 2017

Our assets increased by 7.8% from ₩426,307 billion as of December 31, 2017 to ₩459,601 billion as of December 31, 2018, principally due to increases in loans at amortized cost and, to a lesser extent, an increase in securities at fair value through other comprehensive income and securities at amortized cost based on IFRS 9.

We had loans of ₩275,566 billion as of December 31, 2017. As a result of adopting IFRS 9, on January 1, 2018, ₩274,819 billion and ₩747 billion of net loans as of December 31, 2017 were transferred to loans at net amortized cost and loans at fair value through profit or loss, respectively. Our loans at amortized cost increased by 9.2% to ₩299,609 billion as of December 31, 2018 from ₩274,254 billion as of January 1, 2018, due primarily to an increase

in retail loans and corporate loans.

We had available-for-sale financial assets of ₩42,117 billion as of December 31, 2017. As a result of adopting IFRS 9, on January 1, 2018, ₩37,248 billion and ₩4,869 billion of available-for-sale financial assets as of December 31, 2017 were transferred to securities at fair value through other comprehensive income and securities at fair value through profit or loss, respectively. Our securities at fair value through other comprehensive income increased by 2.9% to ₩38,314 billion as of December 31, 2018 from ₩37,248 billion as of January 1, 2018, due primarily to an increase in government bonds.

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We had held-to-maturity financial assets of ₩24,991 billion as of December 31, 2017. As a result of adopting IFRS 9, on January 1, 2018, ₩24,425 billion and ₩566 billion of held-to-maturity financial assets as of December 31, 2017 (which constituted all of our held-to-maturity financial assets as of December 31, 2017) were transferred to securities at amortized cost and securities at fair value through profit or loss, respectively. Our securities at amortized cost increased by 16.6% to ₩28,478 billion as of December 31, 2018 from ₩24,416 billion as of January 1, 2018 due primarily to an increase in government bonds.

For further information on a comparison between our assets as at December 31, 2018 and as at December 31, 2017, see Note 60 of the notes to our consolidated financial statements included in this annual report.

2017 Compared to 2016

Our assets increased by 7.7% from ₩395,680 billion as of December 31, 2016 to ₩426,307 billion as of December 31, 2017, principally due to increases in loans and, to a lesser extent, held-to-maturity financial assets, available-for-sale financial assets and cash and due from banks, which was partially offset by a decrease in other assets.

Our loans increased by 6.4% from ₩259,011 billion as of December 31, 2016 to ₩275,566 billion as of December 31, 2017, principally as a result of increases in general purpose loans to individuals and households, mortgage loans and home equity loans, as well as loans to SOHO and small- and medium-sized enterprise borrowers as discussed above.

Our held-to-maturity financial assets increased by 26.2% from ₩19,805 billion as of December 31, 2016 to ₩24,991 billion as of December 31, 2017, principally due to our continued efforts to find stable sources of interest income outside of our core lending activities and the increased necessity of held-to-maturity financial assets for duration matching purposes under our asset and liability management system.

Our available-for-sale financial assets increased by 11.8% from ₩37,663 billion as of December 31, 2016 to ₩42,117 billion as of December 31, 2017, largely reflecting our strategy to acquire additional highly liquid assets in light of the increased minimum liquidity coverage ratio requirements applicable to banks since January 2015.

Our cash and due from banks increased by 18.2% from ₩19,181 billion as of December 31, 2016 to ₩22,669 billion as of December 31, 2017, principally due to an increase in additional required reserve deposits with the Bank of Korea resulting from an increase in short term deposits such as demand deposits.

Our other assets decreased by 8.9% from ₩18,167 billion as of December 31, 2016 to ₩16,552 billion as of December 31, 2017, primarily due to a decrease in the balance of domestic exchange settlement accounts which fluctuate on a daily basis.

Table of Contents***Liabilities and Equity***

The following table sets forth, as of the dates indicated, the principal components of our liabilities.

	As of December 31,			% Change	
	2016	2017	2018	2016/2017	2017/2018
	(In billions of Won, except percentages)				
Deposits	₩ 235,138	₩ 249,419	₩ 265,000	6.1%	6.2%
Financial liabilities at fair value through profit or loss			1,420		
Trading liabilities	1,977	1,848		(6.5)	
Financial liabilities designated at fair value through profit or loss (IFRS 9)			8,536		
Financial liabilities designated at fair value through profit or loss (IAS 39)	9,234	8,298		(10.1)	
Derivative liabilities	3,528	3,488	2,440	(1.1)	(30.0)
Borrowings	25,294	27,587	29,819	9.1	8.1
Debt securities issued	44,327	51,341	63,228	15.8	23.2
Liability for defined benefit obligations	131	7	127	(94.7)	1714.3
Provisions	729	429	508	(41.2)	18.4
Current tax payable	273	349	430	27.8	23.2
Deferred tax liabilities	11	10	22	(9.1)	120.0
Liabilities under insurance contracts	22,377	24,515	26,219	9.6	7.0
Other liabilities	20,916	25,312	25,200	21.0	(0.4)
Total liabilities	363,935	392,603	422,949	7.9	7.7
Total equity attributable to equity holders of the Group	31,110	32,820	35,726	5.5	8.9
Non-controlling interests	635	884	926	39.2	4.8
Total equity	31,745	33,704	36,652	6.2	8.7
Total liabilities and equity	₩ 395,680	₩ 426,307	₩ 459,601	7.7%	7.8%

2018 Compared to 2017

Our total liabilities increased by 7.7% from ₩392,603 billion as of December 31, 2017 to ₩422,949 billion as of December 31, 2018, primarily due to an increase in deposits (which principally consist of customer deposits) and, to a lesser extent, an increase in debt securities issued.

Our deposits increased by 6.2% from ₩249,419 billion as of December 31, 2017 to ₩265,000 billion as of December 31, 2018, primarily due to an increase in time and savings deposits largely resulting from customers preference for low-risk investments in light of the continuing uncertainty in financial markets.

Our debt securities issued increased by 23.2% from ₩51,341 billion as of December 31, 2017 to ₩63,228 billion as of December 31, 2018, primarily due to an increase in debentures issued by Shinhan Card and Shinhan Capital.

Total equity increased by 8.7% from ₩33,704 billion as of December 31, 2017 to ₩36,652 billion as of December 31, 2018, largely due to an increase in retained earnings from profit for the year and, to a lesser extent, the issuance of hybrid bonds.

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Our total liabilities increased by 7.9% from ₩363,935 billion as of December 31, 2016 to ₩392,603 billion as of December 31, 2017 primarily due to an increase in deposits (which principally consist of customer deposits) and, to a lesser extent, an increase in debt securities issued and borrowings.

Our deposits increased by 6.1% from ₩235,138 billion as of December 31, 2016 to ₩249,149 billion as of December 31, 2017, primarily due to an increase in customer deposits largely resulting from an increase in liquidity core deposits of Shinhan Bank.

Our debt securities issued increased by 15.8% from ₩44,327 billion as of December 31, 2016 to ₩51,341 billion as of December 31, 2017, primarily due to Shinhan Bank's increased minimum liquidity coverage ratio requirements since January 2015 and an increase in loan assets, as well as an increase in debentures issued by Shinhan Investment and Shinhan Card for general corporate purposes.

Our borrowings increased by 9.1% from ₩25,294 billion as of December 31, 2016 to ₩27,587 billion as of December 31, 2017, primarily due to an increase in borrowings from policy institutions such as Korea Finance Corporation and The Export-Import Bank of Korea resulting from an increase in the demand for loans with government funds and an increase in short-term borrowings such as repurchase transactions and borrowings from the Bank of Korea as part of our liquidity management policy.

Total equity increased by 6.2% from ₩31,745 billion as of December 31, 2016 to ₩33,704 billion as of December 31, 2017, largely due to a net income of ₩2,918 billion, which more than offset a dividend payout of ₩688 billion in 2017 and a decrease in accumulated other comprehensive loss of ₩429 billion in 2017.

ITEM 5.B. Liquidity and Capital Resources

We are exposed to liquidity risk arising from the funding of our lending, trading and investment activities and in the management of trading positions. The goal of liquidity management is for us to be able, even under adverse conditions, to meet all of our liability repayments on time and fund all investment opportunities. For an explanation of how we manage our liquidity risk, see Item 4.B. Business Overview Risk Management Market Risk Management Market Risk Management for Non-trading Activities Liquidity Risk Management. In our opinion, the working capital is sufficient for our present requirements.

The following table sets forth our capital resources as of December 31, 2018.

	As of December 31, 2018	
	(In billions of Won)	
Deposits	₩	265,000
Long-term debt		60,753
Call money		1,425
Borrowings from the Bank of Korea		2,330
Other short-term borrowings		21,884
Asset securitizations		7,615
Stockholders' equity ⁽¹⁾		13,672

Total	₩	372,679
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Note:

(1) Includes capital stock, share premium, and hybrid bonds issued.

We obtain funding from a variety of sources, both domestic and foreign. Our principal source of funding is customer deposits obtained from our banking operations, and we from time to time issue equity and debt securities. In addition, our subsidiaries acquire funding through call money, borrowings from the Bank of Korea, other short-term borrowings, corporate debentures, other long-term debt and asset-backed securitizations.

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Our primary funding strategy has been to achieve low-cost funding by increasing the average balances of low-cost retail customer deposits. Customer deposits accounted for 73.7% of our total funding as of December 31, 2016, 72.9% of our total funding as of December 31, 2017 and 71.1% of our total funding as of December 31, 2018. Historically, except in limited circumstances, largely due to the lack of alternative investment opportunities for individuals and households in Korea, especially in light of a low interest rate environment and volatile stock market conditions, a substantial portion of such customer deposits were rolled over upon maturity and accordingly provided a stable source of funding for our banking subsidiaries. However, in the face of attractive alternative investment opportunities such as during a bullish run of the stock market, customers may transfer a significant amount of bank deposits to alternative investment products in search of higher returns, which may result in temporary difficulties in finding sufficient funding on commercial terms favorable to us. In addition, in recent years, we have faced increasing pricing competition from our competitors with respect to our deposit products. If we do not continue to offer competitive interest rates to our deposit customers, we may lose their business, which has traditionally provided a stable and low-cost source of funding. Even if we are able to match our competitors' pricing, doing so may result in an increase in our funding costs, which may have an adverse impact on our results of operations.

While our banking subsidiaries generally have not faced, and currently are not facing, liquidity difficulties in any material respect, if we or our banking subsidiaries are unable to obtain the funding we need on terms commercially acceptable to us for an extended period of time for reasons of Won devaluation or otherwise, we may not be able to ensure our financial viability, meet regulatory requirements, implement our strategies or compete effectively. See Item 3.D. Risk Factors – Risks Related to Our Overall Business – Changes in interest rates, foreign exchange rates, bond and equity prices, and other market factors have affected and will continue to affect our business, results of operations and financial condition.

As of December 31, 2016, 2017 and 2018, ₩5,656 billion, ₩5,639 billion and ₩5,645 billion, or 2.5%, 2.3% and 2.2%, respectively, of Shinhan Bank's total deposits were deposits made by litigants in connection with legal proceedings in Korean courts. Court deposits carry interest rates, which are generally lower than market rates.

In addition, we obtain funding through borrowings and the issuances of debt and equity securities, primarily through Shinhan Bank. Our borrowings consist mainly of borrowings from financial institutions, the Korean government and Korean government-affiliated funds. Call money, which is available in both Won and foreign currencies, is obtained from the domestic call loan market, a short-term loan market for loans with maturities of less than one month. As for our long-term debt, it is principally in the form of corporate debt securities issued by Shinhan Bank. Since 1999, Shinhan Bank has actively issued and continues to issue long-term debt securities with maturities of over one year in the Korean fixed-income market. Shinhan Bank and we have maintained one of the highest credit ratings in the domestic fixed-income market since their inception in 1999 and 2001, respectively. As Shinhan Bank maintains one of the highest debt ratings in the fixed-income market in Korea, we believe that Shinhan Bank will be able to obtain replacement funding through the issuance of long-term debt securities. Shinhan Bank's interest rates on long-term debt securities are in general 20 to 30 basis points higher than the interest rates offered on their deposits. However, since long-term debt is not subject to premiums paid for deposit insurance and the Bank of Korea reserves, we estimate that our funding costs on long-term debt securities are generally on par with our funding costs on deposits. In addition, Shinhan Bank may also issue long-term debt securities denominated in foreign currencies in overseas markets and has a global medium term notes program under which foreign currency-denominated notes may be issued with an aggregate program limit of US\$6 billion. As of December 31, 2016, 2017 and 2018, our long-term debt amounted to ₩48,084 billion, ₩53,140 billion and ₩60,753 billion, respectively.

We also have funding requirements for our credit card activities. We obtain funding for our credit card activities from a variety of sources, primarily in Korea. The principal sources of funding for Shinhan Card are debentures, commercial papers (including call money), borrowings from the holding company and third-parties, which amounted

to ₩16,692 billion, ₩1,625 billion, ₩700 billion and ₩90 billion, or 87.4%, 8.5%, 3.7% and

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0.4%, respectively, of the funding for our credit card activities, as of December 31, 2018. Unlike other credit card companies, Shinhan Card has the benefit of obtaining funding at favorable rates through loans from Shinhan Financial Group, which currently maintains the highest credit rating assigned by local rating agencies. Shinhan Card aims to further diversify its funding sources and more actively tap the domestic and international capital markets to ensure access to liquidity as needed.

Credit ratings affect the cost and other terms upon which we and our subsidiaries are able to obtain funding. Domestic and international rating agencies regularly evaluate us and our subsidiaries and their ratings of our and our subsidiaries long-term debt are based on a number of factors, including our financial strength as well as conditions affecting the financial services industry generally.

There can be no assurance that we or our subsidiaries will maintain our current credit ratings if, among other reasons, the global or Korean economy were to face another downturn, there are any changes in our corporate governance or our businesses significantly deteriorate. Our failure to maintain current credit ratings and outlooks could increase the cost of our funding, limit our access to capital markets and other borrowings, and require us to post additional collateral in financial transactions, any of which could adversely affect our liquidity, net interest margins and profitability.

Secondary funding sources also include call money, borrowings from the Bank of Korea and other short-term borrowings which amounted to ₩14,945 billion, ₩18,145 billion and ₩25,639 billion, as of December 31, 2016, 2017 and 2018, respectively, each representing 4.7%, 5.3% and 6.9%, respectively, of our total funding as of such dates.

We may also from time to time obtain funding through issuance of equity securities. For example, in the first quarter of 2009, we conducted a rights offering in the face of an expanding global credit crisis in order to enhance our capital position to prepare for potential contingencies, despite having fully met the required capital adequacy ratios required under applicable laws and regulations and not facing any significant liquidity constraints or financial distress. As a result of such offering, which was substantially fully subscribed and resulted in a capital increase of approximately 16.4%, we raised approximately ₩1,310 billion (before underwriting commissions and other offering expenses).

In limited situations, we may also issue convertible and/or preferred shares. For example, in August 2003, in order to partly fund our acquisition of Chohung Bank, we raised a total of ₩2,552 billion through domestic private placements of redeemable preferred shares and redeemable convertible preferred shares to domestic financial institutions and governmental entities in Korea, all of which shares have since been redeemed or converted. In addition, in January 2007, partly to fund the acquisition of LG Card, we raised a total of ₩3,750 billion through domestic private placements of redeemable preferred shares and redeemable convertible preferred shares, all of which have been redeemed as of the date hereof. In April 2011, we issued redeemable preferred shares to fund redemption of such securities, and in April 2016, we redeemed the redeemable preferred shares issued in April 2011. Since April 2016, we have not issued additional preferred shares. For further details, see Item 10.B. Memorandum and Articles of Incorporation Description of Preferred Stock.

Pursuant to laws and regulations in Korea, we may redeem our preferred stock to the extent of our retained earnings of the previous fiscal year, net of certain reserves. At this time, we expect that cash from our future operations would be adequate to provide us with sufficient capital resources to enable us to redeem our preferred stock on or prior to their scheduled maturities. In the event there is a short-term shortage of liquidity to make the required cash payments for redemption as a result of, among other things, failure to receive dividend payments from our operating subsidiaries on time or as a result of significant expenditures resulting from future acquisitions, we plan to raise cash liquidity through the issuance of long-term debt in the Korean fixed-income market in advance of the scheduled maturity on our

preferred stock. To the extent we need to obtain additional liquidity, we plan to do so through the issuance of long-term corporate debentures or further preferred stock and/or the use of our other secondary funding sources.

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We generally may not acquire our own shares except in certain limited circumstances such as a capital reduction. However, pursuant to the Financial Investment Services and Capital Markets Act and regulations under the Financial Holding Companies Act, we may purchase our own shares on the KRX KOSPI Market of the Korea Exchange or through a tender offer, or retrieve our own shares from a trust company upon termination of a trust agreement subject to the restrictions that (1) the aggregate purchase price of such shares may not exceed the total amount available for distribution of dividends at the end of the preceding fiscal year less the amounts of dividends and reserves for such fiscal year, subtracted by the sum of (a) the purchase price of treasury stock acquired if any treasury stock has been purchased after the end of the preceding fiscal year pursuant to the Commercial Act or the Financial Investment Services and Capital Markets Act, (b) the amount subject to a trust contract, and (c) the amount of dividends approved at the ordinary general shareholders meeting after the end of the preceding fiscal year and the amount of retained earnings reserve required under the Commercial Act; plus if any treasury stock has been disposed of after the end of the preceding fiscal year, the acquisition cost of such treasury stock, and (2) the purchase of such shares shall meet the requisite ratio under the Financial Holding Companies Act and regulations thereunder. In addition, pursuant to the Financial Investment Services and Capital Markets Act, in certain limited circumstances, dissenting holders of shares have the right to require us to purchase their shares.

Contractual Obligations, Commitments and Guarantees

In the ordinary course of our business, we have certain contractual cash obligations and commitments which extend for several years. As we are able to obtain liquidity and funding through various sources as described in *Liquidity and Capital Resources* above, we do not believe that these contractual cash obligations and commitments will have a material effect on our liquidity or capital resources.

Contractual Cash Obligations

The following table sets forth our contractual cash obligations as of December 31, 2018.

	As of December 31, 2018						
	Payments Due by Period ⁽¹⁾						
	Less than 1 Month	1-3 Months	3-6 Months	6-12 Months	1-5 Years	More than 5 Years	Total
	(In billions of Won)						
Deposits	₩ 123,166	₩ 24,737	₩ 34,096	₩ 56,061	₩ 28,317	₩ 2,880	₩ 269,257
Borrowings	13,542	2,880	2,208	2,965	5,854	2,553	30,002
Debt securities issued	3,780	5,433	5,633	10,468	36,694	5,292	67,300
Total	₩ 140,488	₩ 33,050	₩ 41,937	₩ 69,494	₩ 70,865	₩ 10,725	₩ 366,559

Note:

(1)

Reflects all estimated contractual interest payments due on our interest-bearing deposits, borrowings and debt securities issued, and the estimated contractual interest payments on borrowings and debt securities that are on a floating rate basis as of December 31, 2018 were computed as if the interest rate used on the last applicable date (for example, the interest payment date for such floating rate loans immediately preceding the determination date) were the interest rate applicable throughout the remainder of the term.

Commitments and Guarantees

In the normal course of business, our subsidiaries make various commitments and guarantees to meet the financing needs of our customers. Commitments and guarantees are usually in the form of, among others, commitments to extend credit, commercial letters of credit, standby letter of credit and performance guarantees. The contractual amount of these financial instruments represents the maximum possible loss amount if the counterparty draws down the commitment or we should fulfill our obligation under the guarantee and the

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counterparty fails to perform under the contract. See Item 4.B. Business Overview Description of Assets and Liabilities Credit-Related Commitments and Guarantees.

The following table sets forth our commitments and guarantees as of December 31, 2018. These commitments, apart from certain guarantees and acceptances, are not included within our consolidated statements of financial position.

	As of December 31, 2018			
	Commitment Expiration by Period			
	Less than 1 Year	1-5 Years	More than 5 Years	Total
	(In billions of Won)			
Commitments to extend credit ⁽¹⁾	₩ 68,816	₩ 10,756	₩ 10,301	₩ 89,873
Commercial letters of credit ⁽²⁾	3,141	21		3,162
Financial guarantees ⁽³⁾	1,731	557	21	2,309
Performance guarantees ⁽⁴⁾	4,662	2,913	95	7,670
Liquidity facilities to SPEs ⁽⁵⁾	1,229	691	164	2,084
Acceptances ⁽⁶⁾	283			283
Endorsed bills ⁽⁷⁾	7,796			7,796
Unused credit limits on credit cards	71,897			71,897
Other	775	171	975	1,921
Total	₩ 160,330	₩ 15,109	₩ 11,556	₩ 186,995

Notes:

- (1) Commitments to extend credit represent unfunded portions of authorizations to extend credit in the form of loans. The commitments expire on fixed dates and a customer is required to comply with predetermined conditions to draw funds under the commitments. Commitments to extend credit, including credit lines, are in general subject to provisions that allow us to withdraw such commitments in the event there are material adverse changes affecting an obligor.
- (2) Commercial letters of credit are undertakings on behalf of customers authorizing third parties to draw drafts on us up to a stipulated amount under specific terms and conditions. These are generally short-term and collateralized by the underlying shipments of goods to which they relate.
- (3) Financial guarantees are contracts that require us to make specified payments to reimburse the holder for a loss it incurs because a specified debtor fails to make payment when due in accordance with the terms of a debt instrument. Financial guarantee liabilities are recognized initially at their fair value, and the initial fair value is amortized over the life of the financial guarantee. The financial guarantee liability is subsequently carried at the higher of this amortized amount and the present value of any expected payment when a payment under the guarantee has become probable. Financial guarantees are included within other liabilities.
- (4) Performance guarantees are issued to guarantee customers tender bids on construction or similar projects or to guarantee completion of such projects in accordance with contractual terms. They are also issued to support a

- customer's obligation to supply products, commodities, maintenance or other services to third parties.
- (5) Liquidity facilities to SPEs represent irrevocable commitments to provide contingent credit lines including commercial paper purchase agreements to special purpose entities for which we serve as the administrator.
 - (6) Acceptances represent guarantees by us to pay a bill of exchange drawn on a customer. We expect most acceptances to be presented, but reimbursement by the customer is normally immediate.
 - (7) Endorsed bills represent notes transferred to third parties by us. We are obligated to fulfill the duty of payment if the person primarily liable does not honor the bill on the due date.

See also Note 53 of the notes to our consolidated financial statements included in this annual report.

Table of Contents**Capital Adequacy**

The following table sets forth a summary of our capital and capital adequacy ratios as of December 31, 2016, 2017 and 2018 based on Basel III.

	As of December 31,		
	2016	2017	2018
	(In millions of Won, except percentages)		
Tier I Capital:			
Tier I CE Capital	₩ 25,325,054	₩ 26,756,509	₩ 28,696,267
Paid-in capital	2,645,053	2,645,053	2,645,053
Capital reserve	9,494,769	9,494,769	9,494,769
Retained earnings	18,640,038	20,790,599	22,959,440
Non-controlling interests in consolidated subsidiaries	85,524	83,996	77,847
Others	(5,540,330)	(6,257,908)	(6,480,842)
Additional Tier I Capital	885,366	916,383	1,981,609
Total Tier I Capital	₩ 26,210,420	₩ 27,672,891	₩ 30,677,876
Tier II Capital:			
Allowances for credit losses	463,018	372,621	599,913
Subordinated debt	210,000	175,000	140,000
Others	2,903,077	2,492,951	2,575,272
Total Tier II capital	₩ 3,576,095	₩ 3,040,572	₩ 3,315,185
Total Capital	₩ 29,786,515	₩ 30,713,464	₩ 33,993,061
Risk-weighted assets			
Credit risk	₩ 175,175,755	₩ 182,783,264	₩ 201,623,530
Market risk	8,656,295	9,404,768	9,995,964
Operational risk	14,810,593	15,580,603	17,058,611
Total risk-weighted assets	₩ 198,642,643	₩ 207,768,636	₩ 228,678,105
Capital adequacy ratio	15.00%	14.78%	14.87%
Tier I capital adequacy ratio	13.19%	13.32%	13.42%
Common equity capital adequacy ratio	12.75%	12.88%	12.55%

ITEM 5.C. Research and Development, Patents and Licenses, etc.

Not applicable.

ITEM 5.D. Trend Information

These matters are discussed under Items 4.B., 5.A. and 5.B. above where relevant.

ITEM 5.E. Off-Balance Sheet Arrangements

We have several types of off-balance sheet arrangements, including guarantees for loans, debentures, trade financing arrangements, guarantees for other financings, credit lines, letters of credit and credit commitments. In the normal course of our banking activities, we make various commitments and guarantees to meet the financing needs of our customers. Commitments and guarantees are usually in the form of, among others, commitments to extend credit, commercial letters of credit, standby letters of credit and performance guarantees. The contractual amount of these financial instruments represents the maximum possible loss amount if the account party draws down the commitment or we should fulfill our obligation under the guarantee and the account party fails to

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perform under the contract. See Item 4.B. Business Overview Description of Assets and Liabilities Credit-Related Commitments and Guarantees.

Details of our off-balance sheet arrangements are provided in Note 53 of the notes to our consolidated financial statements included in this annual report.

ITEM 5.F. Tabular Disclosure of Contractual Obligations

See Item 5.B. Liquidity and Capital Resources Contractual Obligations, Commitments and Guarantees.

ITEM 6. DIRECTORS, SENIOR MANAGEMENT AND EMPLOYEES**ITEM 6.A. Directors and Senior Management****Executive Directors**

Our executive director is as follows:

Name	Age	Position	Director Since	Date Term Ends⁽¹⁾
Cho Yong-byoung	62	Chairman and Chief Executive Officer	March 23, 2017	March 2020

Note:

(1) The date on which the term will end will be the date of the general shareholders' meeting in the relevant year. *Cho Yong-byoung* is our Chairman and Chief Executive Officer. Prior to being elected to his current position on March 23, 2017, Mr. Cho served as the president and chief executive officer of Shinhan Bank from 2015. Mr. Cho also served as the chief executive officer of Shinhan BNP Paribas Asset Management in 2013 and as the deputy president of Shinhan Bank in 2011. Mr. Cho received a bachelor's degree in law from Korea University.

Non-Executive and Outside Directors

Non-executive directors are directors who are not our employees and do not hold executive officer positions with us. Outside directors are non-executive directors who also satisfy the requirements set forth under the Financial Investment Services and Capital Markets Act to be independent of our major shareholders, affiliates and management. Our non-executive directors are selected based on the candidates' talents and skills in diverse areas, such as law, finance, economics, management and accounting. Currently, 12 non-executive directors are in office, all of whom were nominated by our board of directors and approved at a general meeting of shareholders.

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Our non-executive and outside directors are as follows:

Name	Age	Position	Director Since	Date Term Ends⁽¹⁾
<i>Jin Ok-dong</i>	58	Non-Executive Director	March 23, 2017	March 2021
<i>Park Cheul</i>	73	Outside Director	March 25, 2015	March 2020
<i>Kim Hwa-nam</i>	74	Outside Director	March 22, 2018	March 2020
<i>Park Ansoon</i>	74	Outside Director	March 23, 2017	March 2020
<i>Byeon Yang-ho</i>	65	Outside Director	March 27, 2019	March 2021
<i>Sung Jae-ho</i>	59	Outside Director	March 27, 2019	March 2021
<i>Lee Manwoo</i>	65	Outside Director	March 26, 2014	March 2019
<i>Lee Yoon-jae</i>	69	Outside Director	March 27, 2019	March 2021
<i>Choi Kyong-rok</i>	53	Outside Director	March 22, 2018	March 2020
<i>Huh Yong-hak</i>	61	Outside Director	March 27, 2019	March 2021
<i>Philippe Avril</i>	59	Outside Director	March 25, 2015	March 2019
<i>Yuki Hirakawa</i>	59	Outside Director	March 25, 2015	March 2019

Note:

(1) The date on which each term will end will be the date of the general shareholders' meeting in the relevant year. *Jin Ok-dong* has been our non-executive director since March 27, 2019. Mr. Jin is currently the chief executive officer of Shinhan Bank and previously served as the deputy president of Shinhan Financial Group from 2017 to 2018, the deputy president of Shinhan Bank in 2017 and the chief executive officer of Shinhan Bank Japan from 2015 to 2016. Mr. Jin received a master's degree in business administration from Chung Ang University.

Park Cheul has been our outside director since March 25, 2015. Mr. Park is currently the chairman of our board of directors. Mr. Park served as the chairman and chief executive officer of Leading Investment & Securities Co., Ltd. from 2006 to 2013, an outside director of the Korea Development Bank from 2003 to 2006, a committee member of the National Economy Advisory Council in 2004 and the senior deputy governor of the Bank of Korea from 2000 to 2003. Mr. Park received a master's degree in economics from New York University.

Kim Hwa-nam has been our outside director since March 22, 2018. Mr. Kim currently serves as the chief executive officer of Gimhae Corporation Co., Ltd. Mr. Kim previously served as the chairman of the World Federation of Korea Association of Commerce in Japan from 2013 to 2016. He also served as an outside director at Shinhan Life Insurance from 2006 to 2010 and Shinhan Investment Corp. from 1999 to 2002. Mr. Kim received a bachelor's degree in economics from Rikkyo University.

Park Ansoon has been our outside director since March 23, 2017. Mr. Park currently serves as the chairman of Taisei Group Co., Ltd. and the chairman of the Korean Residents Union in Japan. Mr. Park served as the chief executive officer from 1993 to 2012 and held various executive roles at Taisei Group Co., Ltd. from 1968 to 2018. Mr. Park received a bachelor's degree in philosophy from Waseda University.

Byeon Yang-ho has been our outside director since March 27, 2019. Mr. Byeon is currently a company advisor at VIG Partners and also served as the non-executive director of Tong Yang Life Insurance. Mr. Byeon received a Ph.D. in economics from Northern Illinois University.

Sung Jae-ho has been our outside director since March 27, 2019. Mr. Sung currently is currently a professor at Sung Kyun Kwan University School of Law. Mr. Sung previously served as an outside director of NICE Holdings from 2018 to 2019 and Shinhan Card from 2015 to 2019, and chairman of Korea Council of International Law. Mr. Sung received a Ph.D in Law from Sung Kyun Kwan University.

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Lee Manwoo has been our outside director since March 26, 2014. Mr. Lee is currently a professor at Korea University Business School. Mr. Lee served as the chairman of the Korean Accounting Association from 2007 to 2008, the chairman of the Korean Academic Society of Taxation from 2006 to 2007 and a member of the Securities Listing Committee of the Korea Exchange from 2001 to 2007. Mr. Lee received a Ph.D. in business administration from the University of Georgia.

Lee Yoon-jae has been our outside director since March 27, 2019. Mr. Lee served as an outside director in various Korean companies, such as LG, KT&G and S-Oil from 2006 to 2015. In addition he held the chief executive officer position at KorEI from 2001 to 2010. Mr. Lee received a master's degree in business administration from Stanford Graduate School of Business.

Choi Kyong-rok has been our outside director since March 22, 2018. Mr. Choi currently serves as the chief executive officer of CYS Corporation. Mr. Choi served as an outside director of Shinhan Life Insurance from 2010 to 2015. Mr. Choi received a master's degree in computational science from Keio University.

Huh Yong-hak has been our outside director since March 27, 2019. Mr. Huh currently serves as the chief executive officer of First Bridge Strategy Ltd since 2015. Mr. Huh served as the chief investment officer of alternative investment in Hong Kong Monetary Authority from 2008 to 2014. Mr. Huh received a master's degree in international affairs from Columbia University.

Philippe Avril has been our outside director since March 25, 2015. Mr. Avril currently serves as the chief executive officer and representative director of BNP Paribas Securities (Japan) Ltd. and the chief country officer of BNP Paribas, Tokyo Branch. Mr. Avril received a master's degree in economics from Université Paris-Dauphine.

Yuki Hirakawa has been our outside director since March 25, 2015. Mr. Hirakawa currently serves as the chief executive officer of Level River Co., Ltd. Mr. Hirakawa served as the chief executive officer of Hirakawa Industry Co., Ltd. from 1994 to 2012. Mr. Hirakawa received a bachelor's degree in Spanish from Osaka University.

Any director wishing to enter into a transaction with Shinhan Financial Group or any of its subsidiaries in his or her personal capacity is required to obtain the prior approval of our board of directors. The director having an interest in the transaction may not vote at the meeting of our board of directors at which the relevant transaction is subject to vote for approval.

Table of Contents**Executive Officers**

In addition to the executive directors who are also our executive officers, we currently have the following executive officers.

Name	Age	Position	In Charge of
Park Woo-hyuk	56	Deputy President and Chief Strategic Officer	Strategic Planning Team One Shinhan Strategy Team Digital Strategy Team Platform Marketing Team
Yu Sung-hun	54	Deputy President and Chief Financial Officer	Finance Management Team Accounting Team Investor Relations Team Internal Control on Financial Reporting Team
Lee Byeong-cheol	56	Deputy President and Chief Public Relations Officer	Brand Strategy Division
Jang Dong-ki	55	Deputy President	Global Markets & Securities Business Group
Jeong Woon-jin	55	Deputy President	Global Investment Banking Business Group
Wang Mi-hwa	55	Deputy President	Wealth Management Planning Group
Jeong Jiho	56	Deputy President	Global Business Management Group
Kim Im-geun	56	Deputy President and Chief Risk Officer	Risk Management Team Risk Model Validation Team Credit Review Team
Wang Ho-min	55	Managing Director and Chief Compliance Officer	Compliance Team
Lee Een-kyoon	52	Managing Director and Chief Operating Officer	Shinhan Leadership Center Management Support Team Management Innovation Team

None of the executive officers have any significant activities outside Shinhan Financial Group.

Park Woo-hyuk has been our deputy president since January 1, 2019. Mr. Park previously served as the chief executive officer of Shinhan Bank America and deputy president and head of the management support group and trust & pension management group of Shinhan Bank. Mr. Park received a bachelor's degree in economics from Kyung Hee University.

Yu Sung-hun has been our deputy president and Chief Financial Officer since January 1, 2019. Mr. Yu previously served as the managing director of Shinhan Financial Group and head of the Investor Relations Team. Mr. Yu received a bachelor's degree in English linguistics from Hankuk University of Foreign Studies.

Lee Byeong-cheol has been our deputy president and Chief Public Relations Officer since January 1, 2019. Mr. Lee previously served as a managing director of Shinhan Bank. Mr. Lee received a bachelor's degree in law from Korea National Open University.

Jang Dong-ki has been our deputy president since January 1, 2018. Mr. Jang previously served as Chief Financial Officer of Shinhan Financial Group and head of finance management team and managing director and head of the capital market and trading division of Shinhan Bank. Mr. Jang received a bachelor's degree in economics from Seoul National University.

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Jeong Woon-jin has been our deputy president since January 1, 2019. Mr. Jeong previously served as the deputy president and head of management planning group of Shinhan Bank. Mr. Jeong received a bachelor's degree in economics from Seoul National University.

Wang Mi-hwa has been our deputy president since January 1, 2019. Ms. Wang previously served as the managing director, head of wealth management department and head of Shinhan Gangnam private banking center of Shinhan Bank. Ms. Wang graduated from Busanjin Girls Commercial High School.

Jeong Jiho has been our deputy president since January 1, 2019. Mr. Jeong previously served as the managing director and head of global business department of Shinhan Bank and chief executive officer of Shinhan Bank Kazakhstan Ltd. Mr. Jeong received a bachelor's degree in business administration from Korea University.

Kim Im-geun has been our deputy president since January 1, 2019. Mr. Kim previously served as the managing director and Chief Risk Officer of Shinhan Financial Group and head of risk management department of Shinhan Bank. Mr. Kim received a bachelor's degree in statistics from Korea University.

Wang Ho-min has been our managing director since January 1, 2019. Mr. Wang previously served as the branch manager of Southern Jam-sil branch, Seoul southern district court branch and head of corporate culture development team. Mr. Wang received a bachelor's degree in law from Hankuk University of Foreign Studies.

Lee Een-kyoon has been our managing director since January 1, 2019. Mr. Lee previously served as the head of management support team and head of secretary's office of Shinhan Bank. Mr. Lee received a bachelor's degree in English literature from Hanyang University.

There are no family relationships among our directors and/or executive officers.

ITEM 6.B. Compensation

The aggregate remuneration and benefits-in-kind paid by us to our chairman, our executive directors, our non-executive directors and our executive officers for the year ended December 31, 2018 was ₩3.5 billion, consisting of ₩2.6 billion in salaries and wages and ₩0.9 billion in bonus payments.

We do not have service contracts with any of our directors or executive officers providing for benefits upon termination of their employment with us. We do not pay any severance payment to our chairman or directors upon their retirement, but we pay fixed sums of severance payment to other members of senior management pursuant to internal guidelines on severance payments to members of senior management. In 2018, we accrued ₩0.1 billion for retirement bonus.

Prior to April 1, 2010, we granted stock options to our chairman, our president and chief executive officer and other directors and executive officers. Effective April 1, 2010, we ceased granting stock options. On March 18, 2015, the exercise period for all outstanding stock options expired, except for a limited number of stock options for which exercise of such stock options (and hence the expiration of the exercise period as well) were suspended by a resolution of the board of directors in December 2010. In May 2017 and September 2017, by a resolution of the board of directors, we lifted such suspension for a portion of the stock options. As of December 31, 2018, stock options for 9,466 of our shares remain unexercisable. We did not record any accrued expense for stock options in 2018.

During the period from March 20, 2007 to December 31, 2013, we granted performance units to certain high-ranking officers of select group companies. These performance units are performance-based cash compensation, the per-unit value of which is initially determined at the time of grant subject to adjustment after a fixed number of years based on the operating and financial performance of the relevant group company over the

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same or another fixed term, at the end of which a cash amount equal to the adjusted number of the performance units is paid out. For performance units granted prior to April 1, 2010, the performance review period was three years, and the payout was made at the end of the three-year term. For performance units granted on or after April 1, 2010 until December 31, 2013, the applicable performance review period is generally four years (and to a limited extent, five years), and the payment is made at the end of such four- or five-year term. We ceased granting performance units since January 1, 2014.

Since April 1, 2010, we have also granted performance shares to certain high-ranking officers of select group companies. The performance shares are conceptually similar to the performance units granted since April 1, 2010, in that the number of performance shares is based on the operating and financial performance of the relevant group company, except that the number of performance shares granted is adjusted on the basis of movements in the market price of our shares. The aggregate amount of performance shares granted to a given grantee is generally equal to the expected incentive compensation payable to such grantee for three years (in the case of performance shares granted prior to January 1, 2014) and one year (in the case of performance shares granted since January 1, 2014) of service starting from the grant date, which initial amount is computed based on the expected performance of the grantee's company and the expected price movements of our shares over the applicable adjustment period, which is generally four years (and to a limited extent, five years). The performance shares are paid out in cash at the end of the applicable adjustment period (even if employment is terminated prior to such date), and the grantee is contractually and in accordance with our internal regulations required to use the payout solely to purchase our shares in the market at the then-prevailing market price (in the case of performance shares granted prior to January 1, 2014).

Neither performance units nor performance shares have been granted to outside directors. In 2018, we recognized no accrued expenses for performance units and ₩2.0 billion as accrued expenses for performance shares.

Under the Financial Supervisory Service's standards for preparing corporate disclosure forms, which standards were amended in December 2016, we are required to disclose in our Korean annual report the individual annual compensation (including stock options) paid by us to our directors and statutory auditors if the individual annual compensation for such persons is ₩500 million or greater.

In 2018, Cho Yong-byoung, our Chairman and Chief Executive Officer, received ₩1,149 million, consisting of salary and wages. In addition, in 2018 Mr. Cho was granted 18,200 performance shares. The exercisability of these performance shares will be determined based on a review of our business performance and share price movements during a four-year period beginning with the fiscal year in which such shares were granted.

ITEM 6.C. Board Practices

Board of Directors

Our board of directors, which currently consists of one executive director, one non-executive director and eleven outside directors, has the ultimate responsibility for the management of our affairs.

Our Articles of Incorporation provide for no less than three but no more than 15 directors, the number of outside directors must be more than 50% of the total number of directors, and we must maintain at least three outside directors. All directors are elected for a term not exceeding three years as determined by the shareholders' meeting, except that outside directors are elected for a term not exceeding two years, provided that the term of re-election shall not exceed one year and the term cannot be extended in excess of six years. The aggregate term served as an outside director of us or any of our subsidiaries shall not exceed nine years.

Terms are renewable and are subject to the Korean Commercial Code, the Financial Holding Companies Act, the Act on Corporate Governance of Financial Companies and related regulations. See Item 6.A. Directors

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and Senior Management above for information concerning the terms of office of our directors and executive officers.

Our board of directors meets on a regular basis to discuss and resolve material corporate matters. Additional extraordinary meetings may also be convened at the request of the chairman and chief executive officer or a director designated by the board.

Currently, there are no outstanding service contracts between any of our directors or executive officers and us or any of our subsidiaries providing for benefits upon termination of employment by such director or executive officer.

Committees of the Board of Directors

We currently have eight management committees that serve under the board:

the Board Steering Committee;

the Risk Management Committee;

the Audit Committee;

the Remuneration Committee;

the Outside Director Recommendation Committee;

the Audit Committee Member Recommendation Committee;

the Corporate Governance and Chief Executive Officer Recommendation Committee; and

the Corporate Social Responsibility Committee.

Each committee member is appointed by the board of directors, except for members of the Audit Committee, who are elected at the general meeting of shareholders.

Board Steering Committee

The Board Steering Committee currently consists of five directors, namely Cho Yong-byoung, Park Cheul, Byeon Yang-ho, Sung Jae-ho and Choi Kyong-rok. The committee is responsible for ensuring the efficient operations of the board and the facilitation of the board's functions. The committee's responsibilities also include reviewing and assessing the board's structure and the effectiveness of that structure in fulfilling the board's fiduciary responsibilities. The committee holds regular meetings every quarter.

Risk Management Committee

The Risk Management Committee currently consists of four outside directors, namely Byeon Yang-ho, Choi Kyong-rok, Philippe Avril and Huh-Yong-hak. The committee oversees and makes determinations on all issues relating to our comprehensive risk management function. In order to ensure our stable financial condition and to maximize our profits, the committee monitors our overall risk exposure and reviews our compliance with risk policies and risk limits. In addition, the committee reviews risk and control strategies and policies, evaluates whether each risk is at an adequate level, establishes or abolishes risk management divisions, reviews risk-based capital allocations, and reviews the plans and evaluation of internal control. The committee holds regular meetings every quarter.

Audit Committee

The Audit Committee currently consists of three outside directors, namely Lee Manwoo, Sung Jae-ho and Lee Yoon-jae. The committee oversees our financial reporting and approves the appointment of and interaction

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with our independent auditors and our internal audit-related officers. The committee also reviews our financial information, audit examinations, key financial statement issues and the administration of our financial affairs by the board of directors. In connection with the general meetings of stockholders, the committee examines the agenda for, and financial statements and other reports to be submitted by, the board of directors for each general meeting of stockholders. The committee holds regular meetings every quarter.

Remuneration Committee

The Remuneration Committee currently consists of three outside directors, namely Huh Yong-hak, Park Cheul and Lee Manwoo. At least one-half of the members of this committee must be outside directors. This committee is responsible for reviewing and approving the management's evaluation and compensation programs. The committee meetings are called by the chairman of this committee, who must be an outside director.

Outside Director Recommendation Committee

The Outside Director Recommendation Committee currently consists of five outside directors, namely Sung Jae-ho, Kim Hwa-nam, Lee Manwoo, Lee Yoon-jae and Choi Kyong-rok. Members of this committee will be appointed by our board of directors only to the extent necessary to recommend and nominate candidates for our outside director positions and related matters. The committee meetings are called by the chairman of this committee, who must be an outside director. This committee is responsible and authorized for: (i) establishment, review and reinforcement of policies for outside director selection, (ii) recommendation of outside director candidates for approval at the general shareholders' meeting and (iii) continual recruitment and screening of potential outside director candidates.

Audit Committee Member Recommendation Committee

The Audit Committee Member Recommendation Committee consists of only outside directors. Members of this committee must be outside directors and will be appointed by our board of directors on an as-needed basis to recommend and nominate candidates for our Audit Committee member positions and related matters. This committee recommends candidates for the members of the Audit Committee and is required to act on the basis of a two-thirds vote of the members present.

Corporate Governance and Chief Executive Officer Recommendation Committee

The Corporate Governance and Chief Executive Officer (CEO) Recommendation Committee was established in March 2012 and currently consists of seven directors, namely Lee Manwoo, Kim Hwa-nam, Park Cheul, Byeon Yang-ho, Sung Jae-ho, Yuki Hirakawa and Philippe Avril. This committee is responsible for reviewing and making recommendations in relation to the overall corporate governance of our group (including any aspects of corporate governance relating to code of ethics and other code of behavior, size of the board of directors and other matters necessary for improving our overall corporate governance structure), as well as recommendation of the nominees for the president and/or chief executive officer of our group and development, operation and review of our management succession plan, including setting the qualifications for the CEO, evaluating CEO candidate pool and recommending CEO candidates. The chairperson of the committee must be an outside director, and the incumbent CEO may be restricted from participating and voting on matters related to the CEO selection.

Corporate Social Responsibility Committee

The Corporate Social Responsibility Committee was established in March 2015 and currently consists of five directors, namely Cho Yong-byoung, Lee Yoon-jae, Park Ansoon, Byeon Yang-ho and Yuki Hirakawa. This committee is

responsible for setting the general corporate policy and discussing specific business agenda in relation to enhancing our role as a responsible corporate citizen.

Table of Contents**ITEM 6.D. Employees**

At the holding company level, we had 147, 143 and 156 regular employees as of December 31, 2016, 2017 and 2018, respectively, almost all of whom are employed within Korea. Our subsidiaries had 21,542, 21,262 and 20,971 regular employees as of December 31, 2016, 2017 and 2018, respectively, almost all of whom are employed within Korea. In addition, we had five, six and seven non-regular employees at the holding company level as of December 31, 2016, 2017 and 2018, respectively, and 1,693, 1,540 and 1,490 non-regular employees at the subsidiary level as of December 31, 2016, 2017 and 2018, respectively. Of the total number of regular and non-regular employees at both the holding company and subsidiaries, approximately 0.37% were managerial or executive employees.

9,984 employees of Shinhan Bank and 336 employees of Jeju Bank were members of the Korean Financial Industry Union as of December 31, 2018. 2,160 employees of Shinhan Card were members of the Korean Federation of Clerical and Financial Labor Union as of December 31, 2018. 1,576 employees of Shinhan Investment and 1,087 employees of Shinhan Life Insurance were members of the Korea Finance & Service Workers Union as of December 31, 2018.

Under Korean law, we may not terminate full time employees except under limited circumstances.

Since our acquisition of Chohung Bank in 2003, we have not experienced any general employee work stoppages and consider our employee relations to be good.

Under the Korean National Pension Law, we annually contribute an amount equal to 4.5% of employee wages, and each employee contributes 4.5% of his or her wages, to the National Pension Management Corporation. In addition, pursuant to the Employee Retirement Security Act, we operate a retirement pension system under which we make annual contributions to pension funds managed by financial institutions (which replaced our former retirement pension system under which we managed the pension fund in-house) that provide employees both regular pension payments and a lump sum payment upon termination of employment. We believe that our retirement pension system confers the following benefits: (1) insulation of employees from the risk of default on their pension payments as the pension funds are deposited with large financial institutions; (2) offer of varied forms of payment, i.e., regular pension payments and a lump sum payment, upon termination of employment; (3) offer to employees the option to make investment decisions for his or her individual pension account and (4) elimination of the ability of employees to cash in his or her retirement fund prematurely, thereby guaranteeing such employee a lump sum payment upon termination of employment. Under this retirement pension system, we and our subsidiaries can opt for either a defined benefit plan or a defined contribution plan, or a combination of both. Under the defined benefit plan, the amount of pension payable upon an employee's retirement is fixed in advance, and the employer is responsible for making the requisite payments to the pension fund and making investment decisions in relation to the fund assets. Under the defined contribution plan, the employee sets aside a fixed percentage or amount of his salaries to the pension fund and exercises investment decisions for his or her individual pension account. As of December 31, 2016, 2017 and 2018, we recognized liabilities for defined benefit obligations of ₩131 billion, ₩7 billion and ₩127 billion, respectively. See Note 32 of the notes to our consolidated financial statements included in this annual report.

ITEM 6.E. Share Ownership

As of April 3, 2019, the persons who are currently our directors or executive officers, as a group, beneficially held an aggregate of 1,091,744 shares of our common stock, representing approximately 0.23% of our outstanding common stock as of such date. None of these persons individually held more than 1% of our outstanding common stock as of such date.

Members of the employee stock ownership association have certain pre-emptive rights in relation to our shares that are publicly offered under the Financial Investment Services and Capital Markets Act. As of December 31, 2018, the employee stock ownership association owned 22,179,229 shares of our common stock.

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Prior to April 1, 2010, we granted stock options to our chairman, our president and chief executive officer and other directors and executive officers. Effective April 1, 2010, we ceased granting stock options. On March 18, 2015, the exercise period for all outstanding stock options expired, except for a limited number of stock options for which exercise of such stock options (and hence the expiration of the exercise period as well) were suspended by a resolution of the board of directors in December 2010. In May 2017 and September 2017, by a resolution of the board of directors, we lifted such suspension for a portion of the stock options. As of December 31, 2018, stock options for 9,466 of our shares remain unexercisable.

ITEM 7. MAJOR SHAREHOLDERS AND RELATED PARTY TRANSACTIONS**ITEM 7.A. Major Shareholders**

The following table sets forth certain information relating to the beneficial ownership of our common shares as of December 31, 2018.

Name of Shareholder	Number of Common Shares Beneficially Owned	Beneficial Ownership (%)
National Pension Service	44,497,838	9.38%
BlackRock Fund Advisors ⁽¹⁾	25,225,925	5.32
Shinhan Financial Group Employee Stock Ownership Association ⁽²⁾	22,179,229	4.68
BNP Paribas SA	16,826,276	3.55
Citibank, N.A. (ADR Department)	14,223,838	3.00
The Government of Singapore	11,972,346	2.52
Norges Bank	8,062,776	1.70
Samsung Asset Management.	7,034,053	1.48
Vanguard Total International Stock Index	6,237,149	1.32
Peoples Bank of China	5,095,455	1.07
Lazard Fund Inc.	5,006,452	1.06
Others	307,838,250	64.92%
Total⁽³⁾	474,199,587	100.00%

Notes:

- (1) Based on Form SC 13G filed by BlackRock, Inc. on February 8, 2019.
- (2) According to the filing of share ownership dated April 22, 2019, available through the Financial Supervisory Service's Data Analysis, Retrieval and Transfer System (DART), as of April 19, 2019, Shinhan Financial Group Employee Stock Ownership Association beneficially owns 24,036,170 common shares, or 5.07% beneficial

ownership of the total number of shares issued as of April 19, 2019.

(3) Total number of shares issued.

Other than those listed above, no other person or entity known by us, jointly or severally, directly or indirectly own more than 1% of our issued and outstanding voting securities or otherwise exercise control or could exercise control over us. None of our shareholders have different voting rights.

As of the date hereof, our total authorized share capital is 1,000,000,000 shares, par value ₩5,000 per share.

As of December 31, 2018, the latest date on which we closed our shareholders registry, 614 shareholders of record were notated as U.S. persons, holding in the aggregate 25.00% of our then total outstanding shares (including Citibank, N.A., as the depository for our American depository shares, each representing one share of our common stock effective October 15, 2012, prior to which each American depository share represented two common shares).

ITEM 7.B. Related Party Transactions

Since the beginning of the preceding three financial years, none of our directors or officers has or had any transactions with us that are or were unusual in their nature or conditions or significant to our business, other than as set forth below and also described in Note 55 of the notes to our consolidated financial statements included in this annual report.

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In December 2001, BNP Paribas acquired 4.00% of our common stock in return for an investment of approximately ₩155 billion in cash pursuant to an alliance agreement. Under the terms of the alliance agreement, for so long as BNP Paribas does not sell or otherwise transfer (except to any of its wholly-owned subsidiaries) any portion of its ownership interest in our common stock and maintains, after any issuances of new shares by us from time to time, its shareholding percentage of not less than 3.5% of our issued common stock, we are required to call a meeting of our shareholders to recommend that one nominee of BNP Paribas be elected to our board of directors. In addition, under the alliance agreement, BNP Paribas has the right to subscribe for new issuances of our common shares in the event that such new issuances would result in the dilution of the shareholding percentage of BNP Paribas below 3.5%. As of December 31, 2018, BNP Paribas held 16,826,276 shares, or 3.55%, of our total common stock.

As of December 31, 2016, 2017 and 2018, we had principal loans outstanding to our directors, executive officers and their affiliates in the principal amount of ₩1.9 billion, ₩3.2 billion and ₩3.3 billion, which were made in the ordinary course of business on substantially the same terms, including interest rate and collateral, as those prevailing at the time for comparable transactions with other persons, and did not involve more than the normal risk of collectability or present other unfavorable features.

ITEM 7.C. Interests of Experts and Counsel

Not applicable.

ITEM 8. FINANCIAL INFORMATION**ITEM 8.A. Consolidated Statements and Other Financial Information**

See Item 18. Financial Statements and our consolidated financial statements included in this annual report.

Legal Proceedings

We and our subsidiaries are involved in various legal actions and regulatory proceedings arising from the normal course of business. As of December 31, 2018, we and our subsidiaries were defendants in pending lawsuits (including any government proceedings) in the aggregate claim amount of ₩104 billion, for which we recorded a provision of ₩26 billion.

The Financial Supervisory Service conducted a comprehensive audit of Shinhan Bank from November to December 2012, and in July 2013 notified Shinhan Bank of an institutional caution (which does not give rise to significant sanctions unlike in the case of repeated institutional warnings), imposed disciplinary actions against 65 Shinhan Bank employees and assessed a fine of ₩87.5 million after finding that Shinhan Bank had monitored customer accounts without proper authorization, breached confidentiality with respect to certain financial transactions and violated its obligation to disclose and report to the Financial Supervisory Service an investment in an affiliated company of Shinhan Bank. Furthermore, in March 2013 the Financial Supervisory Service conducted a special audit of Shinhan Bank as to incidents of alleged malfunctioning of its financial computer network and in December 2013, notified Shinhan Bank of an institutional caution and imposed disciplinary actions against five Shinhan Bank employees after finding that Shinhan Bank did not properly maintain its information technology administrator account and vaccine server. From October 2013 to November 2014, the Financial Supervisory Service also conducted a series of special audits of Shinhan Bank as to incidents of alleged unauthorized monitoring of customer accounts, and in February

2014, the Prosecutors' Office in Korea also commenced an investigation of Shinhan Bank with respect to same. In December 2015, the Financial Supervisory Service notified Shinhan Bank of an institutional caution and imposed disciplinary actions against two former Shinhan Bank officers after finding that Shinhan Bank had monitored customer accounts without proper authorization, whereas in April 2016, the Prosecutors' Office determined not to prosecute the former

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officers of Shinhan Bank because of insufficient evidence. In addition, the Financial Supervisory Service conducted a periodic audit of Shinhan Bank from April to May 2015 and notified Shinhan Bank of five items requiring management's attention and three items for improvement in June 2016 in connection with such audit. The Financial Supervisory Service conducted an additional audit in April 2017 and notified Shinhan Bank of 11 items requiring an institutional caution and 18 items for improvement in connection with such audit.

The Financial Supervisory Service also conducted a special audit of Shinhan Card, together with BC Card and KB Kookmin Card, from June to July 2013, in relation to alleged imperfect sales of insurance products, and in March 2014, issued an institutional warning against each of the three credit card companies based on a finding that card customers were provided inadequate or misleading disclosures regarding the risks relating to such products at the time of sale. The Financial Supervisory Service also imposed disciplinary actions against three Shinhan Card employees and assessed a fine of ₩10 million against Shinhan Card as well as similar sanctions against BC Card and KB Kookmin Card. In addition, the Financial Supervisory Service conducted a comprehensive audit of Shinhan Card, together with Samsung Card and Hyundai Card, in September 2014, and in November 2015, issued an institutional warning against each of the three credit card companies based on a finding that they had illegally provided personal credit information of potential new cardholders to their credit card sales agents. The Financial Supervisory Service also imposed disciplinary actions against six Shinhan Card employees and assessed a fine of ₩6 million against Shinhan Card as well as similar sanctions against Samsung Card and Hyundai Card. In December 2014, the Financial Supervisory Service also issued institutional cautions against Shinhan Life Insurance for selling insurance products without adequate disclosure and for incomplete payments of agency fees, together with a fine of ₩338 million in relation to the former case.

It has been reported in the press that certain employees of Shinhan Bank have been indicted by the Prosecutors' Office for allegedly illegally influencing the hiring process of new employees and manipulating hiring standards for certain candidates. As of the date hereof, six current and former employees of Shinhan Bank, each of whom had occupied positions within Shinhan Bank's recruiting department between 2013 and 2016, have been indicted for alleged illegal hiring activities while they occupied such positions at Shinhan Bank, and Shinhan Bank has also been indicted for gender discrimination under the Equal Employment Opportunity and Work-Family Balance Assistance Act. In addition to these indictments, on September 17, 2018, the Prosecutors' Office also indicted our Chairman and Chief Executive Officer, who previously served as Shinhan Bank's president, chief executive officer and executive director from March 2015 through March 2017, for alleged illegal hiring activities while he occupied such position at Shinhan Bank. The trials for these individuals are currently pending at the Seoul Eastern District Court. We believe that we have robust and fair internal procedures for hiring new employees. As part of Shinhan Bank's efforts to enhance fairness and transparency of its hiring practices, Shinhan Bank recently adopted the model hiring procedures promulgated by the Korea Federation of Banks, and beginning in 2018 has established a hiring committee consisting of third-party human resources experts and internal compliance officers. However, it is difficult to predict the results of these proceedings and the potential impact they may have on us, Shinhan Bank or the price of our common stock, ADSs or other securities. Accordingly we cannot assure you that these proceedings and related events will not have an adverse effect on us, Shinhan Bank or the price of our common stock, ADSs or other securities.

Our management believes that these lawsuits will not have a material adverse effect on our financial condition, equity or results of operations. For further details of these and other litigations, see Note 53 of the notes to our consolidated financial statements.

Dividend Policy

For a detailed description on the dividend policy, please see Item 10.B. Memorandum and Articles of Incorporation Description of Share Capital - Dividends.

ITEM 8.B. Significant Changes

Not applicable.

Table of Contents**ITEM 9. THE OFFER AND LISTING****ITEM 9.A. Offer and Listing Details****Market Prices of Common Stock and American Depositary Shares**

The principal trading market for our common shares is the KRX KOSPI Market Division of the Korea Exchange, where our common shares were listed on September 10, 2001. Our American depositary shares have been listed on the New York Stock Exchange since September 16, 2003 and are identified by the symbol SHG.

The table below sets forth, for the periods indicated, the high and low closing prices and the average daily volume of trading activity on the Korea Exchange for our common stock since 2014, and their high and low closing prices and the average daily volume of trading activity on the New York Stock Exchange for our American depositary shares since 2014.

	Korea Exchange			New York Stock Exchange		
	Closing Price per Common Stock		Average Daily Trading Volume (Shares)	Closing Price per ADS		Average Daily Trading Volume (ADSs)
	High	Low		High	Low	
2014	53,400	42,000	852,730	52.44	39.44	51,257
2015	46,650	39,000	968,985	42.83	32.13	84,145
2016	47,700	36,100	839,260	40.88	29.66	84,952
2017	55,400	44,800	998,487	48.76	36.81	85,658
First Quarter	49,750	44,800	1,102,971	43.68	36.81	78,489
Second Quarter	50,800	45,600	941,348	45.35	40.20	85,487
Third Quarter	55,400	48,000	912,026	48.76	42.50	82,087
Fourth Quarter	51,700	47,100	1,042,064	46.80	43.12	76,535
2018	53,400	39,050	1,024,181	50.35	34.78	101,168
First Quarter	53,400	44,550	1,031,010	45.20	38.14	98,021
Second Quarter	48,400	43,000	947,591	45.35	45.35	86,258
Third Quarter	45,710	41,450	1,010,829	40.43	36.58	84,538
Fourth Quarter	46,150	39,050	1,104,717	40.68	34.78	136,552
October	46,150	42,350	1,214,032	40.68	37.01	87,043
November	43,400	41,200	901,313	38.71	37.01	97,767
December	42,250	39,050	1,219,416	37.64	34.78	238,537
2019 (through April 19)	45,800	38,350	1,033,035	40.54	34.41	97,532
January	43,200	38,350	1,186,060	38.48	34.41	117,738
February	44,250	42,450	1,054,474	39.21	37.60	83,589
March	44,200	42,000	1,025,203	38.95	37.14	105,781
April (through April 19)	45,800	43,750	794,746	40.54	39.16	73,771

Source: Korea Exchange; New York Stock Exchange.

ITEM 9.B. Plan of Distribution

Not applicable.

ITEM 9.C. Markets

The Korea Exchange

Pursuant to the Korea Stock and Futures Exchange Act, as of January 27, 2005, the Korea Stock Exchange, which began its operations in 1956, the KRX KOSDAQ, which began its operation in July 1, 1996, and the Korea Futures Exchange (as an exchange operating futures market and options market), which began its operation in February 1, 1999, were unified to form the Korea Exchange.

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The Korea Exchange was established in a form of a limited liability stock company in accordance with the Korean Commercial Code with the minimum paid-in capital of ₩100 billion in accordance with the Financial Investment Services and Capital Markets Act. Historically, the Korea Exchange was the only exchange authorized under the Financial Investment Services and Capital Markets Act. On May 28, 2013, however, the Financial Investment Services and Capital Markets Act was amended to implement a license system under which a license may be granted to an exchange upon satisfaction of certain requirements. In addition, the Financial Services Commission has authorized the establishment of alternative trading systems that engage in the trading of listed beneficial certificates, among other things, for a multiple number of parties through electronic means. Notwithstanding the foregoing regulatory developments, the Korea Exchange is presently the only duly licensed exchange in Korea and there have been no definitive developments regarding newly licensed exchanges or alternative trading systems in Korea. The Korea Exchange operates and supervises four market divisions, the KRX KOSPI Market Division, the KRX KOSDAQ Market Division, the KRX Futures Market Division and the KRX KONEX Market Division. It has its principal office in Busan.

As of December 31, 2018, the aggregate market value of equity securities listed on the KOSPI was approximately ₩1,344 trillion. The average daily trading volume of equity securities for 2018 was approximately 398 million shares with an average transaction value of ₩6,549 billion.

Even though the Financial Investment Services and Capital Markets Act prescribed that the Korea Exchange be established in a form of a limited liability stock company, the Korea Exchange is expected to play a public role as a public organization. In order to safeguard against a possible conflict, the Financial Investment Services and Capital Markets Act has placed restrictions on the ownership and operation of the Korea Exchange and any newly established exchanges approved by the Financial Services Commission as follows:

Any person's ownership of shares in the Korea Exchange is limited to 5% or less except for an investment trust company or investment company established under the Financial Investment Services and Capital Markets Act, or the Korean government. However, more than 5% ownership in Korea Exchange is permitted if necessary for forming a strategic alliance with a foreign stock or futures exchange and such amount of ownership is approved by the Financial Services Commission on grounds that such ownership may contribute to the efficiency and soundness of capital markets and the distribution of shares held by shareholders;

The number of outside directors on the board of directors of the Korea Exchange shall be more than half of the total number of directors;

Any amendment to the Articles of Incorporation, transfer or consolidation of business, spin off, stock swap in its entirety or transfer of shares in its entirety of the Korea Exchange will receive prior approval from the Financial Services Commission; and

In the event the Financial Services Commission determines that the chief executive officer of the Korea Exchange is not appropriate for the position, the Financial Services Commission can request the Korea Exchange upon reasonable cause, within one month from the chief executive officer's election, to dismiss the chief executive officer. Subsequently, the chief executive officer will be suspended from performing his

duties and the Korea Exchange will elect a new chief executive officer within two months from the request. The Korea Exchange has the power in some circumstances to suspend trading in the shares of a given company or to de-list a security. The Korea Exchange also restricts share price movements. All listed companies are required to file accounting reports annually, semiannually and quarterly and to release immediately all information that may affect trading in a security.

The Government has in the past exerted, and continues to exert, substantial influence over many aspects of the private sector of the Korean economy and its actions may depress or boost the stock market. In the past, the Government has informally both encouraged and restricted the declaration and payment of dividends, induced mergers to reduce what it considers excess capacity in a particular industry and induced private companies to offer publicly their securities.

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The Korea Exchange publishes the Korea Composite Stock Price Index (KOSPI) every ten seconds, which is an index of all equity securities listed on the Korea Exchange. Historical movements in KOSPI are set out in the following.

	Opening ⁽¹⁾	High	Low	Closing
2001	503.31	715.93	463.54	693.70
2002	698.00	943.54	576.49	627.55
2003	633.03	824.26	512.30	810.71
2004	821.26	939.52	713.99	895.92
2005	893.71	1,383.14	866.17	1,379.37
2006	1,389.27	1,464.70	1,192.09	1,434.46
2007	1,435.26	2,085.45	1,345.08	1,897.13
2008	1,853.45	1,901.13	892.16	1,124.47
2009	1,157.40	1,723.17	992.69	1,682.77
2010	1,696.14	2,051.00	1,552.79	2,051.00
2011	2,070.08	2,228.96	1,652.71	1,825.74
2012	1,826.37	2,049.28	1,769.31	1,997.05
2013	2,031.10	2,059.58	1,780.63	2,011.34
2014	1,967.19	2,082.61	1,886.85	1,915.59
2015	1,926.44	2,173.41	1,829.81	1,961.31
2016	1,918.76	2,068.72	1,835.28	2,026.46
2017	2,026.16	2,557.97	2,026.16	2,467.49
2018	2,479.65	2,598.19	1,996.05	2,041.04
2019 (through April 19)	2,041.04	2,248.63	1,993.70	2,216.15

Source: Korea Exchange

Note:

(1) The figures represent the daily closing price of the first trading day of the respective year.

Shares are quoted ex-dividend on the first trading day of the relevant company's accounting period. Ex-dividend refers to a share no longer carrying the right to receive the following dividend payment because the settlement date occurs after the record date for determining which shareholders are entitled to receive dividends. Ex-rights refers to shares no longer carrying the right to participate in the following rights offering or bonus issuance because the settlement date occurs after the record date for determining which shareholders are entitled to new shares. The calendar year is the accounting period for the majority of listed companies, this may account for the drop in KOSPI between its closing level at the end of one calendar year and its opening level at the beginning of the following calendar year.

With certain exceptions, principally to take account of a share being quoted ex-dividend and ex-rights, permitted upward and downward movements in share prices of any category of shares on any day are limited under the rules of the Korea Exchange to 30% of the previous day's closing price of the shares, rounded down as set out below:

Previous Day's Closing Price	Rounded Down to Won
Less than 1,000	1
1,000 to less than 5,000	5
5,000 to less than 10,000	10
10,000 to less than 50,000	50
50,000 to less than 100,000	100
100,000 to less than 500,000	500
500,000 or more	1,000

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As a consequence, if a particular closing price is the same as the price set by the fluctuation limit, the closing price may not reflect the price at which persons would have been prepared, or would be prepared to continue, if so permitted, to buy and sell shares. Orders are executed on an auction system with priority rules to deal with competing bids and offers.

Due to deregulation of restrictions on brokerage commission rates, the brokerage commission rate on equity securities transactions may be determined by the parties, subject to commission schedules being filed with the Korea Exchange by the financial investment companies with brokerage licenses. In addition, beginning on June 3, 2019, the securities transaction tax for shares listed on the KRX KOSPI Market and KRX KOSDAQ Market will each be lowered by 0.05%, from 0.15% to 0.10% for shares listed on the KRX KOSPI Market and from 0.30% to 0.25% for shares listed on the KRX KOSDAQ Market. The securities transaction tax will generally be imposed on the transfer of shares or certain securities representing rights to subscribe for shares on the Korea Exchange. A special agricultural and fishery tax of 0.15% of the sales prices is also imposed on the transfer of these shares and securities on the KRX KOSPI Market (but not on transfers on the KRX KOSDAQ Market). See Item 10.E. Taxation Korean Taxation.

The number of companies listed on the KRX KOSPI Market, the corresponding total market capitalization at the end of the periods indicated and the average daily trading volume for those periods are set forth in the following table.

Year	Number of Listed Companies	Total Market Capitalization		Average Daily Trading Volume, Value		
		(Millions of Won)	(Thousands of Dollars) ⁽¹⁾	Thousands of Shares	(Millions of Won)	(Thousands of Dollars) ⁽¹⁾
2000	704	₩ 188,041,490	\$ 148,414,751	306,163	₩ 2,602,211	\$ 2,053,837
2001	689	255,850,070	194,784,979	473,241	1,997,420	1,520,685
2002	683	258,680,756	218,056,778	857,245	3,041,598	2,563,937
2003	684	355,362,626	298,123,008	542,010	2,216,636	1,859,594
2004	683	412,588,139	398,597,371	372,895	2,232,109	2,156,419
2005	702	655,074,595	648,588,708	467,629	3,157,662	3,126,398
2006	731	704,587,508	757,620,976	279,096	3,435,180	3,693,742
2007	746	951,917,907	1,017,223,666	363,846	5,540,151	5,920,229
2008	765	576,927,703	457,153,489	355,440	5,190,180	4,112,663
2009	770	887,935,183	763,060,356	485,657	5,795,552	4,980,495
2010	777	1,141,885,458	1,009,981,831	380,859	5,619,768	4,970,607
2011	791	1,041,999,162	899,438,206	353,760	6,863,146	5,924,166
2012	784	1,154,294,167	1,085,638,395	486,480	4,823,643	4,536,739
2013	777	1,185,973,724	1,123,826,139	328,325	3,993,422	3,784,158
2014	773	1,192,252,867	1,092,907,569	278,082	3,983,580	3,651,646
2015	770	1,242,832,089	1,062,885,563	455,256	5,351,734	4,576,870
2016	779	1,308,440,374	1,087,015,348	376,773	4,523,044	3,757,617
2017	774	1,605,820,912	1,504,422,814	340,457	5,325,760	4,989,470
2018	788	1,343,971,858	1,207,630,387	397,972	6,548,622	5,884,286
2019 (through April 19)	791	1,468,420,930	1,293,307,143	398,857	5,375,499	4,734,454

Source: Korea Exchange

Note:

(1) Converted at the Noon Buying Rate at the end of the periods indicated.

The Korean securities markets are principally regulated by the Financial Services Commission and the Financial Investment Services and Capital Markets Act. The law imposes restrictions on insider trading and price manipulation, requires specified information to be made available by listed companies to investors and establishes rules regarding margin trading, proxy solicitation, takeover bids, acquisition of treasury shares and reporting requirements for shareholders holding substantial interests.

Table of Contents**Protection of Customer's Interest in Case of Insolvency of Financial Investment Companies**

Under Korean law, the relationship between a customer and a financial investment company in connection with a securities sell or buy order is deemed to be consignment and the securities acquired by a consignment agent (i.e., the securities company) through such sell or buy order are regarded as belonging to the customer in so far as the customer and the consignment agent's creditors are concerned. Therefore, in the event of a bankruptcy or reorganization procedure involving a financial investment company, the customer of the financial investment company is entitled to the proceeds of the securities sold by the financial investment company. In addition, the Financial Investment Services and Capital Markets Act recognizes the ownership of a customer in securities held by a financial investment company in such customer's account.

When a customer places a sell order with a financial investment company which is not a member of the Korea Exchange and this financial investment company places a sell order with another financial investment company which is a member of the Korea Exchange, the customer is still entitled to the proceeds of the securities sold received by the non-member company from the member company regardless of the bankruptcy or reorganization of the non-member company. Likewise, when a customer places a buy order with a non-member company and the non-member company places a buy order with a member company, the customer has the legal right to the securities received by the non-member company from the member company because the purchased securities are regarded as belonging to the customer in so far as the customer and the non-member company's creditors are concerned.

In addition, under the Financial Investment Services and Capital Markets Act, the Korea Exchange is obliged to indemnify any loss or damage incurred by a counterparty as a result of a breach by its members. If a financial investment company which is a member of the Korea Exchange breaches its obligation in connection with a buy order, the Korea Exchange is obliged to pay the purchase price on behalf of the breaching member. Therefore, the customer can acquire the securities that have been ordered to be purchased by the breaching member.

As the cash deposited with a financial investment company is regarded as belonging to the financial investment company, which is liable to return the same at the request of its customer, the customer cannot take back deposited cash from the financial investment company if a bankruptcy or reorganization procedure is instituted against the financial investment company and, therefore, can suffer from loss or damage as a result. However, the Depositor Protection Act provides that the Korea Deposit Insurance Corporation will, upon the request of the investors, pay each investor up to ₩50 million per financial institution in case of the financial investment company's bankruptcy, liquidation, cancellation of securities business license or other insolvency events. The premiums related to this insurance are paid by financial investment companies. Pursuant to the Financial Investment Services and Capital Markets Act, a financial investment company with a dealing or brokerage license is required to deposit the cash received from its customers with the Korea Securities Finance Corporation, a special entity established pursuant to the Financial Investment Services and Capital Markets Act. Set-off or attachment of cash deposits by securities companies with the Korea Securities Finance Corporation is prohibited. In addition, in the event of bankruptcy or dissolution of the financial investment company, the cash so deposited shall be withdrawn and paid to the customer prior to payment to other creditors of the financial investment company.

Restrictions Applicable to ADSs

No Korean governmental approval is necessary for the sale and purchase of our ADSs in the secondary market outside Korea or for the withdrawal of shares of our common stock underlying the ADSs and the delivery inside Korea of shares in connection with the withdrawal, provided that a foreigner who intends to acquire the shares must obtain an investment registration card from the Financial Supervisory Service as described below. The acquisition of the shares by a foreigner must be immediately reported to the governor of the Financial Services Commission, either by the

foreigner or by his standing proxy in Korea.

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Persons who have acquired shares of our common stock as a result of the withdrawal of shares underlying our ADSs may exercise their preemptive rights for new shares, participate in free distributions and receive dividends on shares without any further Korean governmental approval.

Under current Korean laws and regulations, the depositary is required to obtain our prior consent for the number of shares of our common stock to be deposited in any given proposed deposit that exceeds the difference between:

- (1) the aggregate number of shares of our common stock deposited by us for the issuance of our ADSs (including deposits in connection with the initial issuance and all subsequent offerings of our ADSs and stock dividends or other distributions related to these ADSs); and
- (2) the number of shares of our common stock on deposit with the depositary at the time of such proposed deposit. We have agreed to grant such consent to the extent that the total number of shares on deposit with the depositary would not exceed 40,432,628 at any time.

Reporting Requirements for Holders of Substantial Interests

Under the Financial Investment Services and Capital Markets Act, any person whose direct or beneficial ownership of our common stock with voting rights, whether in the form of shares of common stock or ADSs, certificates representing the rights to subscribe for shares and equity-related debt securities including convertible bonds and bonds with warrants (which we refer to collectively as Equity Securities), together with the Equity Securities beneficially owned by certain related persons or by any person acting in concert with the person, accounts for 5% or more of the total outstanding shares (including Equity Securities of us held by such persons) is required to report the status of the holdings and the purpose of the holdings (for example, whether intending to seek management control) to the Financial Services Commission and the Korea Exchange within five business days after reaching the 5% ownership level. In addition, any change in the ownership interest subsequent to the report that equals or exceeds 1% of the total outstanding Equity Securities or change in the purpose of the holdings is required to be reported to the Financial Services Commission and the Korea Exchange within five business days from the date of the change (within ten days of the end of the month in which the change occurred, in the case of a person with no intent to seek management control and within ten days of the end of the quarter in which the change occurred, in the case of an institutional investor prescribed by the Financial Services Commission).

Violation of these reporting requirements may subject a person to criminal sanctions such as administrative sanctions, fines, imprisonment and/or a loss of voting rights with respect to the portion of ownership of Equity Securities exceeding 5% of the total outstanding shares. In addition, the Financial Services Commission may order the disposal of the unreported Equity Securities. Any persons who reports management control as the purpose for its holdings is prohibited from acquiring additional shares or from exercising voting rights during the following five days following the reporting date.

In addition to the reporting requirements described above, any person whose direct or beneficial ownership of our stock accounts for 10% or more of the total issued and outstanding shares (which we refer to as a major stockholder) must report the status of his/her shareholding to the Korea Securities Futures Commission and the Korea Exchange within five days after he/she becomes a major stockholder. In addition, any change in the ownership interest subsequent to the report must be reported to the Korea Securities Futures Commission and the Korea Exchange within five days after the change occurred, provided that the obligation to report such change shall be exempt if the number shares that changed in ownership is less than 1,000 shares and the aggregate amount of such shares that changed in

ownership is less than ₩10 million. Violation of these reporting requirements may subject a person to criminal sanctions such as fines or imprisonment. Any single stockholder or persons who have a special relationship with such stockholder that jointly acquire more than 10% (4% in case of non-financial business group companies) of the voting stock of a Korean financial holding company who controls national banks will be subject to reporting or approval requirements pursuant to the Financial Holding

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Company Act. See Item 4.B. Business Overview Supervision and Regulation Principal Regulations Applicable to Financial Holding Companies Restrictions on Financial Holding Company Ownership.

Restrictions Applicable to Shares

Under the Foreign Exchange Transaction Laws and Financial Services Commission regulations, as amended (collectively, the Investment Rules), foreigners may invest, with limited exceptions and subject to procedural requirements, in all shares of Korean companies, whether listed on the Stock Market Division of the Korea Exchange or on the KOSDAQ Market Division of the Korea Exchange, unless prohibited by specific laws. Foreign investors may trade shares listed on the Stock Market Division of the Korea Exchange or on the KOSDAQ Market Division of the Korea Exchange only through the Stock Market Division of the Korea Exchange or the KOSDAQ Market Division of the Korea Exchange, except in limited circumstances, including:

odd-lot trading of shares;

acquisition of shares (which we refer to as Converted Shares) by exercise of warrants, conversion rights or exchange rights under bonds with warrants, convertible bonds or exchangeable bonds or withdrawal rights under depositary receipts issued outside of Korea by a Korean company;

acquisition of shares as a result of inheritance, donation, bequest or exercise of stockholders rights, including preemptive rights or rights to participate in free distributions and receive dividends;

over-the-counter transactions between foreigners of a class of shares for which the ceiling on aggregate acquisition by foreigners, as explained below, has been reached or exceeded subject to certain exceptions; and

sale and purchase of shares at fair value between foreigners who are part of an investor group comprised of foreign companies investing under the control of a common investment manager pursuant to applicable laws or contract.

For over-the-counter transactions of shares between foreigners outside the Stock Market Division of the Korea Exchange or the KOSDAQ Market Division of the Korea Exchange for shares with respect to which the limit on aggregate foreign ownership has been reached or exceeded, a securities company licensed in Korea must act as an intermediary. Odd-lot trading of shares outside the Stock Market Division of the Korea Exchange or the KOSDAQ Market Division of the Korea Exchange must involve a licensed securities company in Korea as the other party. Foreign investors are prohibited from engaging in margin transactions with respect to shares that are subject to a foreign ownership limit.

The Investment Rules require a foreign investor who wishes to invest in shares on the Stock Market Division of the Korea Exchange or the KOSDAQ Market Division of the Korea Exchange (including Converted Shares and shares being issued for initial listing on the Stock Market Division of the Korea Exchange or on KOSDAQ Market Division of the Korea Exchange) to register its identity with the Financial Supervisory Service prior to making any such investment. The registration requirement does not, however, apply to foreign investors who acquire Converted Shares

with the intention of selling such Converted Shares within three months from the date of acquisition. Upon registration, the Financial Supervisory Service will issue to the foreign investor an investment registration card, which must be presented each time the foreign investor opens a brokerage account with a securities company. Foreigners eligible to obtain an investment registration card include foreign nationals who have not been residing in Korea for a consecutive period of six months or more, foreign governments, foreign municipal authorities, foreign public institutions, international financial institutions or similar international organizations, corporations incorporated under foreign laws and any person in any additional category designated by decree of the Ministry of Strategy and Finance under the Korean Securities and Exchange Act. All Korean offices of a foreign corporation as a group are treated as a separate foreigner from the offices of the corporation outside Korea for the purpose of investment registration. However, a foreign corporation or depository issuing depository receipts may obtain one or more investment registration cards in its name in certain circumstances as described in the relevant regulations.

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Upon a foreign investor's purchase of shares through the Stock Market Division of the Korea Exchange or the KOSDAQ Market Division of the Korea Exchange, no separate report by the investor is required because the investment registration card system is designed to control and oversee foreign investment through a computer system. However, a foreign investor's acquisition or sale of shares outside the Stock Market Division of the Korea Exchange or the KOSDAQ Market Division of the Korea Exchange (as discussed above) must be reported by the foreign investor or his standing proxy to the governor of the Financial Supervisory Service at the time of each such acquisition or sale. A foreign investor must ensure that any acquisition or sale by it of shares outside the Stock Market Division of the Korea Exchange or the KOSDAQ Market Division of the Korea Exchange in the case of trades in connection with a tender offer, odd-lot trading of shares, trades of a class of shares for which the aggregate foreign ownership limit has been reached or exceeded, is reported to the governor of the Financial Supervisory Service by himself or his standing proxy, or, in the case of sale and purchase of shares at fair value between foreigners, who are part of an investor group comprised of foreign companies investing under the control of a common investment manager pursuant to applicable laws or contract. A foreign investor may appoint a standing proxy from among the Korea Securities Depository, foreign exchange banks (including domestic branches of foreign banks), securities companies (including domestic branches of foreign securities companies), asset management companies, futures trading companies and internationally recognized custodians which will act as a standing proxy to exercise stockholders' rights or perform any matters related to the foregoing activities if the foreign investor does not perform these activities himself. Generally, a foreign investor may not permit any person, other than its standing proxy, to exercise rights relating to his shares or perform any tasks related thereto on his behalf. However, a foreign investor may be exempted from complying with these standing proxy rules with the approval of the governor of the Financial Supervisory Service in cases deemed inevitable by reason of conflict between laws of Korea and the home country of the foreign investor.

Certificates evidencing shares of Korean companies must be kept in custody with an eligible custodian in Korea. Only foreign exchange banks (including domestic branches of foreign banks), securities companies (including domestic branches of foreign securities companies), the Korea Securities Depository, asset management companies, futures trading companies and internationally recognized custodians are eligible to act as a custodian of shares for a non-resident or foreign investor. A foreign investor must ensure that his custodian deposits his shares with the Korea Securities Depository. However, a foreign investor may be exempted from complying with this deposit requirement with the approval of the governor of the Financial Supervisory Service in circumstances where compliance with that requirement is made impracticable, including cases where compliance would contravene the laws of the home country of such foreign investor.

Under the Investment Rules, with certain exceptions, foreign investors may acquire shares of a Korean company without being subject to any foreign investment ceiling. As one such exception, designated public corporations are subject to a 40% ceiling on the acquisition of shares by foreigners in the aggregate. Designated public corporations may set a ceiling on the acquisition of shares by a single person in their articles of incorporation. Furthermore, an investment by a foreign investor in 10% or more of the issued and outstanding shares with voting rights of a Korean company is defined as a foreign direct investment under the Foreign Investment Promotion Act of Korea. Generally, a foreign direct investment must be reported to the Ministry of Commerce, Industry and Energy of Korea. The acquisition of shares of a Korean company by a foreign investor may also be subject to certain foreign or other shareholding restrictions in the event that the restrictions are prescribed in a specific law that regulates the business of the Korean company. For a description of such restrictions applicable to Korean banks, see [Item 4.B. Business Overview](#) [Supervision and Regulation](#) [Principal Regulations Applicable to Banks](#) [Restrictions on Bank Ownership](#).

ITEM 9.D. Selling Shareholders

Not applicable.

ITEM 9.E. Dilution

Not applicable.

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ITEM 9.F. Expenses of the Issue

Not applicable.

ITEM 10. ADDITIONAL INFORMATION

ITEM 10.A. Share Capital

Not applicable.

ITEM 10.B. Memorandum and Articles of Incorporation

We are a financial holding company established under the Financial Holding Company Act. As set forth in our Articles of Incorporation, our objects and purposes as a financial holding company are, among others, to operate and manage financial companies or companies engaged in similar lines of business, to provide financial support to, or investments in, our subsidiaries and to develop and jointly sell products with our subsidiaries. We are registered with the commercial registry office of Seoul Central District Court.

Our articles of incorporation, which was last amended on March 27, 2019, is annexed to this annual report as Exhibit 1.1.

Description of Share Capital

This section provides information relating to our capital stock, including brief summaries of material provisions of our Articles of Incorporation, the Korean Commercial Code, the Financial Investment Services and Capital Markets Act, the Financial Holding Companies Act and certain related laws of Korea, all as currently in effect. The following summaries are intended to provide only summaries and are subject to the full text of the Articles of Incorporation and the applicable provisions of the Financial Investment Services and Capital Markets Act, the Korean Commercial Code, and certain other related laws of Korea.

General

As of December 31, 2018 and as of the date hereof, our authorized share capital is 1,000,000,000 shares. Our Articles of Incorporation provide that we are authorized to issue shares of preferred stock up to one-half of all of the issued and outstanding shares. Furthermore, through an amendment of the Articles of Incorporation, we have created new classes of shares in addition to the common shares and the preferred shares. As of December 31, 2018 and as of the date hereof, the number of our issued and outstanding common shares was 474,199,587.

On January 25, 2007, we issued 28,990,000 Series 10 redeemable preferred shares and 14,721,000 Series 11 redeemable convertible preferred shares as part of our funding for the acquisition of LG Card, all of which were redeemed on January 25, 2012.

On April 21, 2011, as part of funding for partial redemption of the Series 10 redeemable preferred stock and the Series 11 redeemable convertible preferred stock, we issued 11,100,000 shares of the Series 12 non-voting redeemable preferred stock, all of which were redeemed on April 21, 2016. See Description of Preferred Stock. There are no preferred shares authorized, issued or outstanding as of the date hereof.

All of the issued and outstanding shares are fully-paid and non-assessable, and are in registered form. As of the date hereof, our authorized but unissued share capital consists of 373,684,849 shares. We may issue the unissued shares without further shareholder approval but subject to a board resolution as provided in the Articles of Incorporation. See

Distribution of Free Shares. Share certificates are issued in denominations of one, five, ten, 50, 100, 500, 1,000 and 10,000 shares. The par value of our common shares per share is ₩5,000.

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Dividends are distributed to shareholders in proportion to the number of shares of the relevant class of capital stock owned by each shareholder following approval by the shareholders at an annual general meeting of shareholders. We pay full annual dividends on newly issued shares (such as the common shares representing the American depositary shares (ADSs)) for the year in which the new shares are issued. We declare our dividend annually at the annual general meeting of shareholders which is held within three months after the end of the fiscal year. Once declared, the annual dividend must be paid to the stockholders of record as of the end of the preceding fiscal year within one month after the annual general meeting unless otherwise resolved thereby. Annual dividends may be distributed either in (i) cash or (ii) shares provided that shares must be distributed at par value and, if the market price of the shares is less than their par value, dividends in shares may not exceed one-half of the total annual dividends (including dividends in shares). In addition to the annual dividend, we may also distribute cash dividends to the stockholders of record as of the end of March, June and September of each year upon a resolution by the board of directors. Under the Korean Commercial Code we do not have an obligation to pay any annual dividend unclaimed for five years from the scheduled payment date.

In addition, under the Korean Commercial Code and our Articles of Incorporation, we may pay interim dividends once during each fiscal year (in addition to the annual dividends). Interim dividends may be paid upon the resolution of the board of directors and are not subject to shareholder approval. The interim dividends, if any, will be paid to the shareholders of record at 12:00 a.m. midnight, July 1 of the relevant fiscal year in cash. Under the Korean Commercial Code, an interim dividend may not be more than the net assets on the balance sheet of the immediately preceding fiscal period, after deducting (i) the capital of the immediately preceding fiscal period, (ii) the sum of the capital reserve and legal reserve accumulated up to the immediately preceding fiscal period, (iii) the amount of earnings for dividend payment approved at the general shareholders meeting of the immediately preceding fiscal period, (iv) other special reserves accumulated up to the immediately preceding fiscal period, either pursuant to the provisions of our Articles of Incorporation or to the resolution of the general meeting of shareholders, and (v) amount of legal reserve that should be set aside for the current fiscal period following the interim dividend payment.

Under the Financial Holding Companies Act and the regulations thereunder, a financial holding company may not pay an annual dividend unless it has set aside as its legal reserve an amount equal to at least one-tenth of its net income after tax and shall set aside such amount as its legal reserve until its legal reserve reaches at least the aggregate amount of its stated capital.

Other than as set forth above and the dividend rights granted to preferred shareholders as further described in Description of Preferred Stock, our articles of incorporation do not provide special rights to our common or preferred shareholders to share in our profits. For information regarding Korean taxes on dividends, see Item 10.E. Taxation Korean Taxation.

Distribution of Free Shares

In addition to permitting dividends in the form of shares to be paid out of retained or current earnings, the Korean Commercial Code permits a company to distribute to its shareholders, in the form of free shares, an amount transferred from the capital surplus or legal reserve to stated capital. These free shares must be distributed to all of the shareholders pro rata. Our Articles of Incorporation require the same types of preferred shares to be distributed to the holders of preferred shares in case of distribution of free shares. For information regarding the treatment under Korean tax laws of free share distributions, see Item 10.E. Taxation Korean Taxation Taxation of Dividends on Shares of Common Stock or American Depositary Shares.

Preemptive Rights and Issuance of Additional Shares

Unless otherwise provided in the Korean Commercial Code, a company may issue authorized but unissued shares at such times and upon such terms as the board of directors of the company may determine. The company

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must offer the new shares on uniform terms to all shareholders who have preemptive rights and who are listed on the shareholders' register as of the record date. Our shareholders are entitled to subscribe for any newly issued shares in proportion to their existing shareholdings. However, as provided in the Articles of Incorporation, we may issue new shares by resolution of board of directors to persons other than existing shareholders if those shares are (1) publicly offered (where the number of such shares so offered may not exceed 50% of our total number of issued and outstanding shares); (2) preferentially allocated to the members of the ESOA pursuant to relevant provisions of the Financial Investment Services and Capital Markets Act; (3) issued for the purpose of issuing depositary receipts pursuant to relevant provisions of the Financial Investment Services and Capital Markets Act (where the number of such shares so issued may not exceed 50% of our total number of issued and outstanding shares); (4) issued to directors or employees as a result of exercise of stock options we granted to them pursuant to the Korean Commercial Code; (5) issued to a financial investment company, a private equity fund or a special purpose company under the Financial Investment Services and Capital Markets Act; or (6) issued to any specified foreign investors, foreign or domestic financial institutions or alliance companies for operational needs such as introduction of advanced financial technology, improvement of its or subsidiaries' financial structure and funding or strategic alliance (where such number of shares so issued may not exceed 50% of our total number of issued and outstanding shares). Under the Korean Commercial Code, a company may vary, without stockholders' approval, the terms of such preemptive rights for different classes of shares. Public notice of the preemptive rights to new shares and the transferability thereof must be given not less than two weeks (excluding the period during which the shareholders' register is closed) prior to the record date. We will notify the shareholders who are entitled to subscribe for newly issued shares of the deadline for subscription at least two weeks prior to the deadline. If a shareholder fails to subscribe on or before such deadline, the shareholder's preemptive rights will lapse. Our board of directors may determine how to distribute shares in respect of which preemptive rights have not been exercised or where fractions of shares occur. Under the Financial Investment Services and Capital Markets Act, if a listed company intends to issue new shares by way of allotment to shareholders, it must issue a certificate of preemptive right to the newly issued shares. Furthermore, the company must list the newly issued shares on the Korea Exchange for a certain period of time or designate a securities company to broker and/or deal in such newly issued shares in order to ensure that they are properly distributed. In the event certain shareholder forfeit their right to subscribe to newly issued shares, the company may allot the forfeited shares to a third party under certain conditions, including in relation to the purchase price of such shares, although in principle, the company must withdraw the forfeited shares. Under the Korean Commercial Code, when a company issues new shares by way of allotment to a third party, such company must notify its stockholders or make public notice of the conditions and other details of such new shares not less than two weeks prior to the relevant subscription payment date. Under the Financial Investment Services and Capital Markets Act, however, a listed company may substitute such notification or public notice by disclosing the material fact in a report publicly filed with the listing authorities.

Under the Financial Investment Services and Capital Markets Act, members of a company's employee stock ownership association, whether or not they are shareholders, have a preemptive right, subject to certain exceptions, to subscribe for up to 20% of the shares publicly offered pursuant to the Financial Investment Services and Capital Markets Act. However, this right is exercisable only to the extent that the total number of shares so acquired and held by such members does not exceed 20% of the total number of shares to be newly issued and shares then outstanding. As of December 31, 2018, the employee stock ownership association owned 22,179,229 shares, or 4.68%, of our common stock.

General Meeting of Shareholders

There are two types of general meetings of shareholders: annual general meetings and extraordinary general meetings. We are required to convene our annual general meeting within three months after the end of each fiscal year. Subject to a board resolution or court approval, an extraordinary general meeting of shareholders may be held when necessary or at the request of our Audit Committee. In addition, under the Korean Commercial Code, an extraordinary general

meeting of shareholders may be held at the request of the shareholders holding shares for at least six months of an aggregate of 1.5% or more of the outstanding shares with voting rights of the listed

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company, subject to a board resolution or court approval. Furthermore, under the Act on the Corporate Governance of Financial Companies of Korea and its sub-regulations, an extraordinary general meeting of shareholders may be held at the request of the shareholders holding shares for at least six months of an aggregate of 1.5% (0.75% in the case of a financial holding company (i) whose total assets at the end of the latest fiscal year is ₩5 trillion or more and (ii) who is in control of two or more subsidiaries, each with total assets of ₩2 trillion or more) or more of the outstanding shares of the company, subject to a board resolution or court approval. Meeting agendas are determined by the board of directors or proposed by holders of an aggregate of 3% or more of the outstanding shares with voting rights by way of a written proposal to the board of directors at least six weeks prior to the meeting. In addition, under the Korean Commercial Code, the meeting agenda may be proposed by the shareholders holding shares for at least six months of an aggregate of 1% (0.5% in the case of a listed company whose capital at the end of the latest operating year is ₩100 billion or more) or more of the outstanding shares of the listed company. Furthermore, under the Act on the Corporate Governance of Financial Companies and its sub-regulations, the meeting agenda may be proposed by the shareholders holding shares for at least six months of an aggregate of 0.1%. Written notices stating the date, place and agenda of the meeting must be given to the shareholders at least two weeks prior to the date of the general meeting of shareholders; provided, that, notice may be given to holders of 1% or less of the total number of issued and outstanding shares which are entitled to vote, by placing at least two public notices at least two weeks in advance of the meeting in at least two daily newspapers or by using an electronic method defined under the Korean Commercial Code and related regulations at least two weeks in advance of the meeting. Currently, we use *The Korea Economic Daily* and *Maeil Business Newspaper* for the publication of such notices. Shareholders who are not on the shareholders' register as of the record date are not entitled to receive notice of the general meeting of shareholders, and they are not entitled to attend or vote at such meeting.

The general meeting of shareholders is held at our executive office (which is our registered executive office) or, if necessary, may be held anywhere in the vicinity of our executive office.

Voting Rights

Holders of common shares are entitled to one vote for each share. However, voting rights with respect to common shares that we hold and common shares that are held by a corporate shareholder, more than one-tenth of the outstanding capital stock of which is directly or indirectly owned by us, may not be exercised. Unless stated otherwise in a company's Articles of Incorporation, the Korean Commercial Code permits holders of an aggregate of 3% (1%, in case of a company whose total assets as at the end of the latest fiscal year is ₩2 trillion or more) or more of the outstanding shares with voting rights to request cumulative voting when electing two or more directors. Our Articles of Incorporation currently do not prohibit cumulative voting. In addition, under the Korean Commercial Code, in case of appointment of an audit committee member who is an outside director, any shareholder holding more than 3% of the outstanding shares with voting rights shall not exercise its voting rights with respect to any portion of its shares exceeding the 3% limit; and in case of appointment of an audit committee member who is a non-outside director, the largest shareholder (together with certain related persons) holding more than 3% of the outstanding shares with voting rights shall not exercise its voting rights with respect to any portion of its shares exceeding the 3% limit.

The Korean Commercial Code and our Articles of Incorporation provide that an ordinary resolution may be adopted if approval is obtained from the holders of at least a majority of those common shares present or represented at such meeting and such majority also represents at least one-fourth of the total of our issued and outstanding common shares. Holders of non-voting shares (other than enfranchised non-voting shares) are not entitled to vote on any resolution or to receive notice of any general meeting of shareholders unless the agenda of the meeting includes consideration of a resolution on which such holders are entitled to vote. The Korean Commercial Code provides that a company's articles of incorporation may prescribe conditions for enfranchisement of non-voting shares. For example, if our general shareholders' meeting resolves not to pay to holders of preferred shares the annual dividend as

determined by the board of directors at the time of issuance of such shares, the holders of preferred shares will be entitled to exercise voting rights from the general

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shareholders meeting immediately following the meeting adopting such resolution until the end of the meeting to declare to pay such dividend with respect to the preferred shares. Holders of such enfranchised preferred shares have the same rights as holders of common shares to request, receive notice of, attend and vote at a general meeting of shareholders.

The Korean Commercial Code provides that to amend the Articles of Incorporation (which is also required for any change to the authorized share capital of the company) and in certain other instances, including removal of a director of a company, dissolution, merger or consolidation of a company, transfer of the whole or a significant part of the business of a company, acquisition of all of the business of any other company or issuance of new shares at a price lower than their par value, a special resolution must be adopted by the approval of the holders of at least two-thirds of those shares present or represented at such meeting and such special majority must also represent at least one-third of the total issued and outstanding shares with voting rights of the company.

In addition, in the case of amendments to the Articles of Incorporation or any merger or consolidation of a company or in certain other cases which affect the rights or interest of the shareholders of the preferred shares, a resolution must be adopted by a separate meeting of shareholders of the preferred shares. Such a resolution may be adopted if the approval is obtained from shareholders of at least two-thirds of the preferred shares present or represented at such meeting and such preferred shares also represent at least one-third of the total issued and outstanding preferred shares of the company.

A shareholder may exercise his voting rights by proxy given to another shareholder. If a particular shareholder intends to obtain proxy from another shareholder, a reference document specified by the Financial Supervisory Service must be sent to the shareholder giving proxy, with a copy furnished to the company's executive office or the branch office, transfer agent and the Financial Services Commission. The proxy must present the power of attorney prior to the start of the general meeting of shareholders.

Rights of Dissenting Shareholders

Pursuant to the Financial Investment Services and Capital Markets Act, in certain limited circumstances (including, without limitation, if we transfer all or any significant part of our business or if we merge or consolidate with another company), dissenting holders of shares have the right to require us to purchase their shares. Pursuant to the Financial Holding Companies Act, the Financial Investment Services and Capital Markets Act and the Korean Commercial Code, if a financial holding company acquires a new direct or indirect subsidiary through the exchange or transfer of shares except in limited circumstances, the dissenting holders of such shares have the right to require us to purchase their shares. To exercise such a right, shareholders must submit to us a written notice of their intention to dissent prior to the general meeting of shareholders. Within 20 days (or 10 days under certain circumstances according to the Financial Holding Companies Act) after the date on which the relevant resolution is passed at such meeting, such dissenting shareholders must request in writing that we purchase their shares. We are obligated to purchase the shares of dissenting shareholders within one month after the end of such request period at a price to be determined by negotiation between the shareholder and us. If we cannot agree on a price with the shareholder through such negotiations, the purchase price will be the arithmetic mean of (1) the weighted average of the daily closing share prices on the KRX KOSPI Market of the Korea Exchange for two months prior to the date of the adoption of the relevant board of directors' resolution, (2) the weighted average of the daily closing share prices on the KRX KOSPI Market of the Korea Exchange for one month prior to the date of the adoption of the relevant board of directors' resolution and (3) the weighted average of the daily closing share prices on the KRX KOSPI Market of the Korea Exchange for one week prior to the date of the adoption of the relevant board of directors' resolution. If we or the dissenting shareholder who requested purchase of their shares do not accept such purchase price, we or the shareholder may request to the court to adjust such purchase price.

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Register of Shareholders and Record Dates

We maintain the register of our shareholders at our transfer agent's office in Seoul, Korea. The Korea Securities Depository as our transfer agent, registers transfers of shares on the register of shareholders upon presentation of the share certificates.

The record date for annual dividends is December 31. For the purpose of determining the holders of shares entitled to annual dividends, the register of shareholders may be closed for the period from January 1 of each year up to January 15 of such year. Further, the Korean Commercial Code and the Articles of Incorporation permit us upon at least two weeks' public notice to set a record date and/or close the register of shareholders for not more than three months for the purpose of determining the shareholders entitled to certain rights pertaining to the shares. The trading of shares and the delivery of certificates in respect thereof may continue while the register of shareholders is closed.

Other Shareholder Rights

Our articles of incorporation do not have sinking fund provisions or provisions creating liability to further capital calls. Other than to amend our articles of incorporation in accordance with the Korean Commercial Code, no particular action is necessary to change the rights of holders of our capital stock. In addition, our articles of incorporation do not have specific provisions for governing changes in capital or which would have an effect of delaying, deferring or preventing a change in control of us and that would operate only with respect to a merger, acquisition or corporate restructuring involving us or any of our subsidiaries.

Directors

Under the Korean Commercial Code and our articles of incorporation, any director wishing to enter into a transaction with us or our subsidiaries in his or her personal capacity is required to obtain the prior approval of the board of directors, and any director having an interest in the transaction may not vote at the meeting of the board of directors to approve the transaction.

Neither our articles of incorporation nor applicable Korean laws have provisions relating to (i) the directors' power, in the absence of an independent quorum, to vote compensation to themselves or any members of their body (ii) borrowing powers exercisable by the directors and how such borrowing powers can be varied; (iii) retirement or non-retirement of directors under an age limit requirement; or (iv) the number of shares required for a director's qualification.

Description of Preferred Stock

On January 25, 2007, as part of funding our acquisition of LG Card, we issued 28,990,000 Series 10 non-voting redeemable preferred shares. On January 25, 2012, we redeemed all of the Series 10 preferred shares.

On January 25, 2007, as part of funding our acquisition of LG Card, we issued 14,721,000 Series 11 non-voting redeemable convertible preferred shares. On January 25, 2012, we redeemed all of the Series 11 preferred shares.

On April 21, 2011, as part of funding for preferred stocks due to be redeemed in January 2012, we issued 11,100,000 Series 12 non-voting redeemable preferred shares for the subscription price of ₩100,000 per share, or ₩1,110 billion in the aggregate. On April 21, 2016, we redeemed all of the Series 12 redeemable preferred shares.

There is currently no outstanding preferred stock.

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Under the Financial Investment Services and Capital Markets Act, we must file with the Financial Services Commission and the Korea Exchange an annual business report (containing audit report and audited annual nonconsolidated and consolidated financial statements) within 90 days after the end of our fiscal year as well as a semiannual business report within 45 days after the end of the first six months of our fiscal year and quarterly business reports within 45 days after the end of the first three months and nine months of our fiscal year, respectively (in each case, containing review report and reviewed interim nonconsolidated and consolidated financial statements). Copies of such reports are available for public inspection at the websites of the Financial Services Commission and the Korea Exchange.

Transfer of Shares

Under the Korean Commercial Code, the transfer of shares is effected by the delivery of share certificates. In order to exercise shareholders' rights, the transferee must have his name and address registered on the registry of shareholders. For this purpose, shareholders are required to file with us their name, address and seal. Nonresident shareholders must notify us of the name of their proxy in Korea to which our notice can be sent. Under the Financial Services Commission regulations, nonresident shareholders may appoint a standing proxy and may not allow any person other than the standing proxy to exercise rights regarding the acquired share or perform any task related thereto on his behalf, subject to certain exceptions. Under current Korean regulations, the Korea Securities Depository, foreign exchange banks (including domestic branches of foreign banks), financial investment companies with a dealing, brokerage or collective investment license and internationally recognized custodians are authorized to act as standing proxy and provide related services. Certain foreign exchange controls and securities regulations apply to the transfer of shares by nonresidents or non-Koreans. See Item 10.D. Exchange Controls. As to the ceiling on the aggregate shareholdings of a single shareholder and persons who have a special relationship with such shareholder, please see Item 4.B. Business Overview Supervision and Regulation Principal Regulations Applicable to Financial Holding Companies Restrictions on Financial Holding Company Ownership.

Acquisition of Treasury Shares

Under the Korean Commercial Code, we may acquire our own shares upon a resolution of the general meeting of the shareholders by either (i) purchasing them on a stock exchange or (ii) purchasing a number of shares, other than the redeemable shares as set forth in Article 345, Paragraph (1) of the Korean Commercial Code, from each shareholder in proportion to its existing shareholding ratio through the methods set forth in the Presidential Decree, provided that the total purchase price does not exceed the amount of our profit that may be distributed as dividends in respect of the immediately preceding fiscal year.

In addition, pursuant to the Financial Investment Services and Capital Markets Act and regulations under the Financial Holding Companies Act, we may purchase our own shares on the KRX KOSPI Market of the Korea Exchange, through a tender offer, or through a trust agreement with a trust company, or retrieve our own shares from a trust company upon termination of a trust agreement, subject to the restrictions that (1) the aggregate purchase price of such shares may not exceed the total amount available for distribution of dividends at the end of the preceding fiscal year less the amounts of dividends and reserves for such fiscal year, subtracted by the sum of (a) the purchase price of treasury stock acquired if any treasury stock has been purchased after the end of the preceding fiscal year pursuant to the Commercial Act or the Financial Investment Services and Capital Markets Act, (b) the amount subject to trust agreements, and (c) the amount of dividends approved at the ordinary general shareholders' meeting after the end of the preceding fiscal year and the amount of retained earnings reserve required under the Commercial Act; plus if any treasury stock has been disposed of after the end of the preceding fiscal year, the acquisition cost of such treasury

stock and (2) the purchase of such shares shall meet the requisite capital ratio under the Financial Holding Companies Act and the guidelines issued by the Financial Services Commission. In general, under the Financial Holding Companies Act, our subsidiaries are not permitted to acquire our shares.

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Liquidation Rights

In the event we are liquidated, the assets remaining after the payment of all debts, liquidation expenses and taxes will be distributed to shareholders in proportion to the number of shares held by such shareholders. Holders of preferred shares may have preferences over holders of common shares in liquidation.

ITEM 10.C. Material Contracts

None.

ITEM 10.D. Exchange Controls

General

The Foreign Exchange Transaction Act of Korea the related Presidential Decree and the regulations under such Act and Decree (collectively the Foreign Exchange Transaction Laws) herein, regulate investment in Korean securities by nonresidents and issuance of securities by Korean companies outside Korea. Under the Foreign Exchange Transaction Laws, nonresidents may invest in Korean securities only to the extent specifically allowed by these laws or otherwise permitted by the Ministry of Strategy and Finance of Korea. The Financial Services Commission has also adopted, pursuant to its authority under the Financial Investment Services and Capital Markets Act, regulations that restrict investment by foreigners in Korean securities and regulate issuance of securities by Korean companies outside Korea.

Under the Foreign Exchange Transaction Laws, (1) if the Korean government determines that it is inevitable due to the outbreak of natural calamities, wars, conflict of arms or grave and sudden changes in domestic or foreign economic circumstances or other situations equivalent thereto, the Ministry of Strategy and Finance may temporarily suspend payment, receipt or the whole or part of transactions to which the Foreign Exchange Transaction Laws apply, or impose an obligation to safe keep, deposit or sell means of payment in or to certain Korean governmental agencies or financial institutions; and (2) if the Korean government determines that international balance of payments and international finance face or are likely to face serious difficulty or the movement of capital between Korea and abroad will cause or is likely to cause serious obstacles in carrying out its currency policies, exchange rate policies and other macroeconomic policies, the Ministry of Strategy and Finance may take measures to require any person who intends to perform capital transactions to obtain permission or to require any person who performs capital transactions to deposit part of the payments received in such transactions at certain Korean governmental agencies or financial institutions, in each case subject to certain limitations.

Restrictions Applicable to Shares

Under the Foreign Exchange Transaction Laws, a foreign investor who intends to acquire shares must designate a foreign exchange bank at which he must open a foreign currency account and a Won account exclusively for stock investments. No approval is required for remittance into Korea and deposit of foreign currency funds in the foreign currency account. Foreign currency funds may be transferred from the foreign currency account at the time required to make a deposit for, or settle the purchase price of, a stock purchase transaction to a Won account opened at a financial investment company with a securities dealing or brokerage license. Funds in the foreign currency account may be remitted abroad without any Korean governmental approval.

Dividends on shares of Korean companies are paid in Won. No Korean governmental approval is required for foreign investors to receive dividends on, or the Won proceeds of the sale of, any shares to be paid, received and retained in Korea. Dividends paid on, and the Won proceeds of the sale of, any shares held by a nonresident of Korea must be deposited either in a Won account with the investor's financial investment company with a securities dealing or brokerage license or in his Won account. Funds in the investor's Won account may be

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transferred to his foreign currency account or withdrawn for local living expenses, provided that any withdrawal of local living expenses by any one person exceeding US\$10,000 per day needs to be reported to the governor of the Financial Supervisory Service by the foreign exchange bank at which the Won account is maintained. Funds in the Won account may also be used for future investment in shares or for payment of the subscription price of new shares obtained through the exercise of preemptive rights.

Financial investment companies with a securities dealing, brokerage or collective investment license are allowed to open foreign currency accounts with foreign exchange banks exclusively for accommodating foreign investors' stock investments in Korea. Through these accounts, financial companies with a securities dealing, brokerage or collective investment license may enter into foreign exchange transactions on a limited basis, such as conversion of foreign currency funds and Won funds, either as a counterparty to or on behalf of foreign investors, without the investors having to open their own accounts with foreign exchange banks.

ITEM 10.E. Taxation

The following summary is based upon tax laws, regulations, rulings, decrees, income tax conventions (treaties), administrative practice and judicial decisions of Korea and the United States as of the date of this annual report, and is subject to any change in Korean or United States law that may come into effect after such date. Investors in shares of common stock or American depositary shares are advised to consult their own tax advisers as to the Korean, United States or other tax consequences of the purchase, ownership and disposition of such securities, including the effect of any national, state or local tax laws.

Korean Taxation

The following summary of Korean tax considerations applies to you so long as you are not:

a resident of Korea;

a corporation having its head office, principal place of business, or place of effective management in Korea (a Korean corporation); or

engaged in a trade or business in Korea through a permanent establishment or a fixed base to which the relevant income is attributable or with which the relevant income is effectively connected.

Taxation of Dividends on Shares of Common Stock or American Depositary Shares

We will deduct Korean withholding tax from dividends (whether in cash or in shares) paid to you at a rate of 22% (including local income surtax). If you are a qualified resident and a beneficial owner of the dividends in a country that has entered into a tax treaty with Korea, you may qualify for a reduced rate of Korean withholding tax. See Tax Treaties below for a discussion of treaty benefits. If we distribute to you free shares representing a transfer of certain capital reserves or asset revaluation reserves into paid-in capital, such distribution may be subject to a Korean withholding tax.

Taxation of Capital Gains from Transfer of Common Shares or American Depositary Shares

As a general rule, capital gains earned by non-residents upon transfer of our common shares or American depositary shares (ADSs) are subject to a Korean withholding tax at the lower of (1) 11% (including local income surtax) of the gross proceeds realized or (2) 22% (including local income surtax) of the net realized gain, subject to the production of satisfactory evidence of acquisition costs and certain direct transaction costs associated with common shares or ADSs, unless exempt from Korean income taxation under an applicable tax treaty between Korea and the country of your tax residence. See Tax Treaties below for a discussion on treaty benefits. Even if you do not qualify for the exemption under a tax treaty, you will not be subject to the foregoing withholding tax on capital gains if you meet certain requirements for the exemption under Korean domestic tax laws discussed in the following paragraphs.

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You will not be subject to the Korean income taxation on capital gains realized upon a transfer of our common shares through the Korea Exchange if you (1) have no permanent establishment in Korea and (2) do not own and have never owned (together with any shares owned by any entity with which you have a special relationship and possibly including the shares represented by the ADSs) 25% or more of our total issued and outstanding shares at any time during the calendar year in which the sale occurs and during the five consecutive calendar years prior to the calendar year in which the sale occurs.

Under the tax law amendments effective for capital gains recognized or to be recognized from disposition of ADSs on or after January 1, 2008, ADSs are viewed as shares of stock for capital gains tax purposes. Accordingly, capital gains from sale or disposition of ADSs are taxed (if taxable) as if such gains are from sale or disposition of shares of our common stock. It should be noted that (i) capital gains earned by you (regardless of whether you have a permanent establishment in Korea) from a transfer of ADSs outside Korea will generally be exempt from Korean income taxation by virtue of the Special Tax Treatment Control Law of Korea, or the STTCL, provided that the issuance of ADSs is deemed to be an overseas issuance under the STTCL, but (ii) in the case where an owner of the underlying shares of stock transfers ADSs after conversion of the underlying shares into ADSs, the exemption under the STTCL described in (i) will not apply. In the case where an owner of the underlying shares of stock transfers the ADSs after conversion of the underlying shares of stock into ADSs, such person is obligated to file corporate income tax returns and pay tax unless a purchaser or a financial investment company with a brokerage license, as applicable, withholds and pays the tax on capital gains derived from transfer of ADSs, as discussed below.

If you are subject to tax on capital gains with respect to a sale of common shares or ADSs, the purchaser or, in the case of a sale of common shares on the Korea Exchange or through a financial investment company with a brokerage license in Korea, the financial investment company is required to withhold Korean tax from the sales proceeds in an amount equal to 11% (including local income surtax) of the gross realization proceeds and to remit the withheld tax to the Korean tax authority, unless you establish your entitlement to an exemption under an applicable tax treaty or domestic tax law or produce satisfactory evidence of your acquisition costs and certain direct transaction costs associated with common shares or ADSs. See the discussion under *Tax Treaties* below for an explanation of claiming treaty benefits.

Tax Treaties

Korea has entered into a number of income tax treaties with other countries, including the United States, which reduce or exempt Korean withholding tax on the income derived by residents of such treaty countries. For example, under the Korea-U.S. income tax treaty, reduced rates of Korean withholding tax on dividends of 16.5% or 11.0%, respectively (including local income surtax), depending on your shareholding ratio, and an exemption from Korean withholding tax on capital gains are generally available to residents of the United States that are beneficial owners of the relevant dividend income or capital gains. However, under Article 17 (Investment or Holding Companies) of the Korea-U.S. income tax treaty, such reduced rates and exemption do not apply if (1) you are a United States corporation, (2) by reason of any special measures the tax imposed on you by the United States with respect to such dividends or capital gains is substantially less than the tax generally imposed by the United States on corporate profits, and (3) 25% or more of your capital is held of record or is otherwise determined, after consultation between competent authorities of the United States and Korea, to be owned directly or indirectly by one or more persons who are not individual residents of the United States. Also, under Article 16 (Capital Gains) of the Korea-U.S. income tax treaty, the exemption on capital gains does not apply if (a) you have a permanent establishment in Korea and any shares of common stock in which you hold an interest and which gives rise to capital gains are effectively connected with such permanent establishment, (b) you are an individual and you maintain a fixed base in Korea for a period or periods aggregating 183 days or more during the taxable year and your common shares or ADSs giving rise to capital gains are effectively connected with such fixed base or (c) you are an individual and you are present in Korea for a period or

periods of 183 days or more during the taxable year.

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You should inquire for yourself whether you are entitled to the benefit of an income tax treaty with Korea. It is the responsibility of the party claiming the benefits of an income tax treaty in respect of dividend payments or capital gains to submit to us, the purchaser, the financial investment company, or other withholding agent, as the case may be, a certificate as to his tax residence. In the absence of sufficient proof, we, the purchaser, the financial investment company, or other withholding agent, as the case may be, must withhold tax at the normal rates. Furthermore, in order for you to claim the benefit of a tax rate reduction or tax exemption on certain Korean source income (e.g., dividends or capital gains) under an applicable tax treaty as the beneficial owner of such Korean source income, Korean tax law requires you (or your agent) to submit an application (in the case for reduced withholding tax rate, an application for entitlement to reduced tax rate, and in the case for exemption from withholding tax, an application for tax exemption) with a certificate of your tax residency issued by the competent authority of your country of tax residence, subject to certain exceptions (together, the BO application). For example, a U.S. resident would be required to provide a Form 6166 as a certificate of tax residency with the application for entitlement to reduced tax rate or the application for tax exemption, as the case may be. Subject to certain exceptions, where the relevant income is paid to an overseas investment vehicle that is not the beneficial owner of such income (an OIV), a beneficial owner claiming the benefit of an applicable tax treaty with respect to such income must submit its BO application to such OIV, which in turn must submit an OIV report and a schedule of beneficial owners to the withholding agent prior to the payment date of such income. In the case of a tax exemption application, the withholding agent is required to submit such application (together with the applicable OIV report in the event the income will be paid to an OIV) to the relevant district tax office by the ninth day of the month following the date of the payment of such income.

Inheritance Tax and Gift Tax

If you die while holding an ADS or donate an ADS, it is unclear whether, for Korean inheritance and gift tax purposes, you would be treated as the owner of the shares of common stock underlying the ADSs. If the tax authority interprets depositary receipts as the underlying share certificates, you may be treated as the owner of the shares of common stock and your heir or the donee (or in certain circumstances, you as the donor) will be subject to Korean inheritance or gift tax, which ranges from 10% to 50% recently, assessable based on the value of the ADSs or shares of common stock and the identity of the individual against whom the tax is assessed.

If you die while holding a common share or donate a subscription right or a common share, your heir or donee (or in certain circumstances, you as the donor) will be subject to Korean inheritance or gift tax at the same rate as indicated above.

At present, Korea has not entered into any tax treaty relating to inheritance or gift taxes.

Securities Transaction Tax

If you transfer common shares through the Korea Exchange, you will be subject to a securities transaction tax at the rate of 0.15% (which will be decreased to 0.1% beginning on June 3, 2019 pursuant to an amendment to the Enforcement Decree of the Securities Transaction Tax Act) and an agriculture and fishery special surtax at the rate of 0.15% of the sales price of common shares. If your transfer of common shares is not made through the Korea Exchange, subject to certain exceptions, you will be subject to a securities transaction tax at the rate of 0.5% but will not be subject to an agriculture and fishery special surtax.

Depositary receipts, which the ADSs constitute, are included in the scope of securities transfer subject to securities transaction tax. Nonetheless, transfer of depositary receipts listed on a foreign securities exchange similar to the Korea Exchange (e.g., the New York Stock Exchange, the NASDAQ National Market) will not be subject to the securities transaction tax.

In principle, the securities transaction tax, if applicable, must be paid by a transferor of common shares. When a transfer is effected through a securities settlement company, such settlement company is generally required to withhold and remit the tax to the tax authorities. When such transfer is made through a financial

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investment company only, such financial investment company is required to withhold and remit the tax. Where a transfer is affected by a non-resident who has no permanent establishment in Korea by a method other than through a securities settlement company or a financial investment company, the transferee is required to withhold the securities transaction tax.

Non-reporting or underreporting of securities transaction tax will generally result in the imposition of penalties equal to 20% to 60% of the non-reported or 10% to 60% of underreported tax amount and a failure to timely pay securities transaction tax due will result in penalties of 9.125% per annum of the due but unpaid tax. The penalty is imposed on the party responsible for paying the securities transaction tax or, if the securities transaction tax is to be withheld, on the party that has the withholding obligation.

Certain United States Federal Income Tax Consequences

The following summary describes certain U.S. federal income tax considerations for beneficial owners of our common shares or ADSs that hold the common shares or ADSs as capital assets and are U.S. holders. You are a U.S. holder if you are for U.S. federal income tax purposes:

- (i) an individual citizen or resident of the United States;
- (ii) a corporation, or other entity treated as a corporation for U.S. federal income tax purposes, created or organized in or under the laws of the United States, any state thereof or District of Columbia;
- (iii) an estate the income of which is subject to U.S. federal income taxation regardless of its source;
- (iv) a trust that is subject to the primary supervision of a court within the United States and has one or more U.S. persons with authority to control all substantial decisions of the trust; or
- (v) a trust that has a valid election in effect under applicable U.S. Treasury regulations to be treated as a U.S. person.

In addition, this summary only applies to you if you are a U.S. holder that is a resident of the United States for purposes of the current income tax treaty between the United States and Korea (the Treaty), your common shares or ADSs are not, for purposes of the Treaty, effectively connected with a permanent establishment in Korea and you otherwise qualify for the full benefits of the Treaty.

This summary is based upon the provisions of the Internal Revenue Code of 1986, as amended (the Code) and regulations (including proposed regulations), rulings and judicial decisions thereunder as of the date hereof, as well as the Treaty, all of which are subject to change, perhaps retroactively. It is for general purposes only and you should not consider it to be tax advice. In addition, it is based in part on representations by the ADS depository and assumes that each obligation under the deposit agreement will be performed in accordance with its terms. This summary does not represent a detailed description of all the U.S. federal income tax consequences to you in light of your particular circumstances, and does not address the Medicare tax on net investment income or the effects of any state, local or non-U.S. tax laws. In addition, it does not represent a detailed description of the U.S. federal income tax consequences

applicable to you if you are subject to special treatment under the U.S. federal income tax laws, including if you are:

a bank;

a dealer in securities or currencies;

an insurance company or one of certain financial institutions;

a regulated investment company;

a real estate investment trust;

a tax-exempt entity;

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a trader in securities that has elected to use a mark-to-market method of accounting for your securities holdings;

a person holding common shares or ADSs as part of a hedging, conversion, constructive sale or integrated transaction or a straddle;

a person liable for the alternative minimum tax;

a partnership or other pass-through entity for U.S. federal income tax purposes;

a person who owns or is deemed to own 10% or more of our stock (by vote or value);

a person required to accelerate the recognition of any item of gross income with respect to our common shares or ADSs as a result of such income being recognized on an applicable financial statement; or

a person whose functional currency is not the U.S. Dollar.

If a partnership (or other entity treated as a partnership for U.S. federal income tax purposes) holds our common shares or ADSs, the tax treatment of a partner will generally depend upon the status of the partner and the activities of the partnership. If you are a partner of a partnership holding our common shares or ADSs, you are urged to consult your tax advisor.

You should consult your own tax advisor concerning the particular U.S. federal tax consequences to you of the ownership and disposition of common shares or ADSs, as well as any consequences arising under the laws of any other taxing jurisdiction.

American Depositary Shares

If you hold ADSs, for U.S. federal income tax purposes, you generally will be treated as the owner of the underlying common shares that are represented by such ADSs. Accordingly, deposits or withdrawals of common shares for ADSs will not be subject to U.S. federal income tax.

Distributions on Common Shares or American Depositary Shares

Subject to the discussion below under **Passive Foreign Investment Company Rules**, the gross amount of distributions on our common shares or ADSs (including amounts withheld to reflect Korean withholding tax) will be taxable as dividends to the extent paid out of our current or accumulated earnings and profits (as determined under U.S. federal income tax principles). Such income (including withheld taxes) will be includable in your gross income as ordinary income on the day you actually or constructively receive it, in the case of our common shares, or the day actually or constructively received by the ADS depositary, in the case of ADSs. Such dividends will not be eligible for the dividends-received deduction allowed to corporations under the Code.

With respect to non-corporate U.S. holders, certain dividends received from a qualified foreign corporation may be subject to reduced rates of taxation. A qualified foreign corporation includes a foreign corporation that is eligible for the benefits of a comprehensive income tax treaty with the United States which the U.S. Treasury Department determines to be satisfactory for these purposes and which includes an exchange of information provision. The U.S. Treasury Department has determined that the Treaty meets these requirements, and we believe we are eligible for the benefits of the Treaty. A foreign corporation is also treated as a qualified foreign corporation with respect to dividends paid by that corporation on shares (or ADSs backed by such shares) that are readily tradable on an established securities market in the United States. Our common shares will generally not be considered readily tradable for these purposes. U.S. Treasury Department guidance indicates that securities such as our ADSs, which are listed on the New York Stock Exchange, are treated as readily tradable on an established securities market in the United States for these purposes. There can be no assurance that our ADSs will be considered readily tradable on an established securities market in later years. Non-corporate U.S. holders that do not meet a minimum holding period requirement during which they are not protected from a risk of loss

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or that elect to treat the dividend income as investment income pursuant to Section 163(d)(4) of the Code will not be eligible for the reduced rates of taxation regardless of our status as a qualified foreign corporation. In addition, the rate reduction will not apply to dividends if the recipient of a dividend is obligated to make related payments with respect to positions in substantially similar or related property. This disallowance applies even if the minimum holding period has been met. Furthermore, non-corporate U.S. holders will not be eligible for the rate reduction if we are a passive foreign investment company (as discussed below under **Passive Foreign Investment Company Rules**) in the taxable year in which such dividends are paid or were a passive foreign investment company in the preceding taxable year. If you are a non-corporate U.S. holder, you should consult your own tax advisor regarding the application of these rules given your particular circumstances.

The amount of any dividend paid in Korean Won will equal the U.S. Dollar value of the Korean Won received calculated by reference to the exchange rate in effect on the date you receive the dividend, in the case of our common shares, or the date received by the ADS depository, in the case of ADSs, regardless of whether the Korean Won are converted into U.S. Dollars. If the Korean Won received as a dividend are converted into U.S. Dollars on the date they are received, you generally will not be required to recognize foreign currency gain or loss in respect of the dividend income. If the Korean Won received are not converted into U.S. Dollars on the day of receipt, you will have a basis in the Korean Won equal to their U.S. Dollar value on the date of receipt. Any gain or loss realized on a subsequent conversion or other disposition of the Korean Won will be treated as United States source ordinary income or loss.

Subject to certain significant conditions and limitations, Korean taxes withheld from dividends (at a rate not exceeding the rate provided in the Treaty) will be treated as foreign income taxes eligible for credit against your U.S. federal income tax liability. See **Korean Taxation Tax Treaties** for a discussion of the Treaty rate. Korean taxes withheld in excess of the rate provided in the Treaty will not be eligible for credit against your U.S. federal income tax until you exhaust all effective and practical remedies to recover such excess withholding, including the seeking of competent authority assistance from the Internal Revenue Service. For purposes of the foreign tax credit, dividends paid on our common shares or ADSs will be treated as income from sources outside the United States and will generally constitute passive category income. If you do not elect to claim a credit for any foreign taxes paid during a taxable year, you may instead elect, subject to certain limitations, to claim a deduction in respect of such foreign taxes, provided that you apply this election to all foreign taxes paid or accrued in the taxable year.

Further, in certain circumstances, if you have held our common shares or ADSs for less than a specified minimum period during which you are not protected from risk of loss, or are obligated to make payments related to the dividends, you will not be allowed a foreign tax credit for foreign taxes imposed on dividends paid on our common shares or ADSs. The rules governing the foreign tax credit are complex. You are urged to consult your tax advisors regarding the availability of the foreign tax credit under your particular circumstances.

To the extent that the amount of any distribution exceeds our current and accumulated earnings and profits for a taxable year, as determined under U.S. federal income tax principles, the distribution will first be treated as a tax-free return of capital, causing a reduction of your adjusted basis in our common shares or ADSs (thereby increasing the amount of gain, or decreasing the amount of loss, to be recognized by you on a subsequent disposition of our common shares or ADSs), and the balance in excess of adjusted basis will be taxed as capital gain recognized on a sale or exchange. However, we do not expect to determine earnings and profits in accordance with U.S. federal income tax principles. Therefore, you should expect that a distribution will be reported and generally be treated as a dividend (as discussed above).

Distributions of our common shares or ADSs or rights to subscribe for our common shares or ADSs that are received as part of a pro rata distribution to all of our shareholders (including holders of ADSs) generally will not be subject to U.S. federal income tax to recipient common shareholders (including holders of ADSs). Consequently, such

distributions will not give rise to foreign source income and you will not be able to use the foreign tax credit arising from any Korean withholding tax unless such credit can be applied (subject to applicable limitations) against U.S. tax due on other income derived from foreign sources.

Table of Contents***Disposition of Common Shares or American Depositary Shares***

For U.S. federal income tax purposes, you will recognize gain or loss upon the sale, exchange or other disposition of our common shares or ADSs in an amount equal to the difference between the amount realized upon the sale, exchange or other disposition and your adjusted tax basis in our common shares or ADSs, as the case may be. Subject to the discussion below under **Passive Foreign Investment Company Rules**, such gain or loss will generally be capital gain or loss and will generally be long-term capital gain or loss if at the time of sale, exchange or other disposition, our common shares or ADSs have been held for more than one year. Long-term capital gains of non-corporate U.S. holders (including individuals) are eligible for reduced rates of taxation. The deductibility of capital losses is subject to limitations. Any gain or loss you recognize on the sale, exchange or other disposition of our common shares or ADSs will generally be treated as United States source gain or loss. Consequently, you may not be able to use the foreign tax credit arising from any Korean tax imposed on the disposition of our common shares or ADSs unless such credit can be applied (subject to applicable limitations) against tax due on other income treated as derived from foreign sources.

You should note that any Korean securities transaction tax generally will not be treated as a creditable foreign tax for U.S. federal income tax purposes, although you may be entitled to deduct such taxes, subject to applicable limitations under the Code.

Passive Foreign Investment Company Rules

Based upon the past and projected composition of our income and assets and valuation of our assets, including goodwill, we do not believe that we were a PFIC for 2018, and we do not expect to be a PFIC in 2019 or to become one in the foreseeable future, although there can be no assurance in this regard. However, PFIC status is a factual determination that is made annually. Accordingly, it is possible that we may become a PFIC in the current or any future taxable year due to changes in composition of our income or assets or valuation of our assets. Because we have valued our goodwill based on the market value of our common shares and ADSs, a decrease in the price of our common shares and ADSs may also result in our becoming a PFIC.

In general, we will be considered a PFIC for any taxable year in which:

at least 75% of our gross income is passive income; or

at least 50% of the value (determined based on a quarterly average) of our assets is attributable to assets that produce or are held for the production of passive income.

For this purpose, passive income generally includes dividends, interest, royalties and rents (other than royalties and rents derived in the active conduct of a trade or business and not derived from a related person). Certain proposed U.S. Treasury regulations and other administrative pronouncements from the Internal Revenue Service provide special rules for determining the character of income and assets derived in the active conduct of a banking business for purposes of the PFIC rules. Specifically, these rules treat certain income earned by a non-U.S. corporation engaged in the active conduct of a banking business as non-passive income. Although we believe we have adopted a reasonable interpretation of the proposed U.S. Treasury regulations and administrative pronouncements, there can be no assurance that the Internal Revenue Service will follow the same interpretation. You should consult your own tax advisor regarding the application of these rules.

If we own at least 25% by value of another corporation's stock, we will be treated, for purposes of the PFIC rules, as owning our proportionate share of the assets and receiving our proportionate share of the income of that corporation.

If we are a PFIC for any taxable year during which you hold our common shares or ADSs (and you do not make a timely mark-to-market election, as described below), you will be subject to special tax rules with respect to any excess distribution that you receive and any gain you realize from the sale or other disposition

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(including a pledge) of our common shares or ADSs. These special tax rules generally will apply even if we cease to be a PFIC in future years. Distributions you receive in a taxable year that are greater than 125% of the average annual distributions you received during the shorter of the three preceding taxable years or your holding period for our common shares or ADSs will be treated as excess distributions. Under these special tax rules:

the excess distribution or gain will be allocated ratably over your holding period for our common shares or ADSs;

the amount allocated to the current taxable year, and any taxable year prior to the first taxable year in which we are a PFIC, will be treated as ordinary income; and

the amount allocated to each other year will be subject to tax at the highest tax rate in effect for that year, and the interest charge generally applicable to underpayments of tax will be imposed on the resulting tax attributable to each such year.

In certain circumstances, you could make a mark-to-market election, under which in lieu of being subject to the special rules discussed above, you will include gain on our common shares or ADSs on a mark-to-market basis as ordinary income, provided that our common shares or ADSs are regularly traded on a qualified exchange or other market. Our common shares are listed on the Korea Exchange, which must meet certain trading, listing, financial disclosure and other requirements to be treated as a qualified exchange under applicable U.S. Treasury regulations for purposes of the mark-to-market election, and no assurance can be given that the common shares are or will continue to be regularly traded for purposes of the mark-to-market election. Our ADSs are currently listed on the New York Stock Exchange, which constitutes a qualified exchange, although there can be no assurance that the ADSs are or will be regularly traded. If you make a valid mark-to-market election, for each year that we are a PFIC you will include as ordinary income the excess of the fair market value of your common shares or ADSs at the end of the year over your adjusted tax basis in the common shares or ADSs. You will be entitled to deduct as an ordinary loss in each such year the excess of your adjusted tax basis in the common shares or ADSs over their fair market value at the end of the year, but only to the extent of the net amount previously included in income as a result of the mark-to-market election. If you make an effective mark-to-market election, in each year that we are a PFIC any gain you recognize upon the sale or other disposition of your common shares or ADSs will be treated as ordinary income, and any loss will be treated as ordinary loss, but only to the extent of the net amount previously included in income as a result of the mark-to-market election.

A U.S. holder's adjusted tax basis in common shares or ADSs will be increased by the amount of any income inclusion and decreased by the amount of any deductions under the mark-to-market rules. If a U.S. holder makes a mark-to-market election, it will be effective for the taxable year for which the election is made and all subsequent taxable years unless the common shares or ADSs are no longer regularly traded on a qualified exchange or other market or the Internal Revenue Service consents to the revocation of the election. You should consult your tax advisor about the availability of the mark-to-market election, and whether making the election would be advisable with respect to your particular circumstances.

In addition, a holder of common shares or ADSs in a PFIC can sometimes avoid the rules described above by electing to treat the company as a qualified electing fund under Section 1295 of the Code. This option is not available to you because we do not intend to comply with the requirements necessary to permit holders to make this election.

If we are a PFIC for any taxable year during which you hold our common shares or ADSs and any of our non-U.S. subsidiaries is also a PFIC, you will be treated as owning a proportionate amount (by value) of the shares of the lower-tier PFIC for purposes of the application of the PFIC rules. You are urged to consult your tax advisors about the application of the PFIC rules to any of our subsidiaries.

If you hold our common shares or ADSs in any year in which we are classified as a PFIC, you will generally be required to file Internal Revenue Service Form 8621.

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Non-corporate U.S. holders will not be eligible for reduced rates of taxation on any dividends received from us if we are a PFIC in the taxable year in which such dividends are paid or were a PFIC in the preceding taxable year. You should consult your tax advisor concerning the determination of our PFIC status and the U.S. federal income tax consequences of holding our common shares or ADSs if we are considered a PFIC in any taxable year.

Information Reporting and Backup Withholding

In general, information reporting will apply to dividends in respect of our common shares or ADSs and the proceeds from the sale, exchange or other disposition of our common shares or ADSs that are paid to you within the United States (and in certain cases, outside the United States), unless you are an exempt recipient. A backup withholding tax may apply to such payments if you fail to provide a taxpayer identification number or certification of other exempt status or fail to report in full dividend and interest income.

Backup withholding is not an additional tax. Any amounts withheld under the backup withholding rules will be allowed as a refund or a credit against your U.S. federal income tax liability provided the required information is timely furnished to the Internal Revenue Service.

FATCA

Under Sections 1471 through 1474 of the Code (such Sections commonly referred to as *FATCA*), certain entities in a broadly defined class of foreign financial institutions (*FFIs*) may be subject to a 30% United States withholding tax on certain United States source payments made to the FFI, unless the FFI is a participating FFI, which is generally defined as an FFI that (i) enters into an agreement with the Internal Revenue Service pursuant to which it agrees to comply with a complicated and expansive reporting regime or (ii) complies with the requirements of an intergovernmental agreement entered into by the United States and another jurisdiction regarding the implementation of FATCA (an *IGA*), or the FFI is otherwise deemed compliant with or exempt from FATCA.

The FATCA legislation also contains complex provisions requiring certain participating FFIs to withhold on certain foreign passthru payments made to FFIs that are not participating FFIs or otherwise exempt from FATCA withholding and to holders that fail to provide the information required by FATCA. Although the definition of a foreign passthru payment is still reserved under current regulations, the term generally refers to payments that are from non-United States sources but that are attributable to certain United States payments described above. Pursuant to proposed U.S. Treasury regulations (upon which taxpayers may rely until final regulations are issued), withholding on foreign passthru payments, if applicable, would not be required with respect to payments made before the date that is two years after the date of publication of final regulations defining the term foreign passthru payment. It is unclear whether or to what extent payments on our common shares or ADSs would be considered foreign passthru payments that are subject to withholding under FATCA.

On June 10, 2015, the United States and Korea entered into an IGA to implement the foregoing requirements. The IGA is intended to result in the automatic exchange of tax information through reporting by FFIs to the Internal Revenue Service. Prospective investors should consult their tax advisors regarding the application of the FATCA rules to an investment in our common shares.

ITEM 10.F. Dividends and Paying Agents

Not applicable.

ITEM 10.G. Statements by Experts

Not applicable.

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ITEM 10.H. Documents on Display

We are subject to the information requirements of the U.S. Securities Exchange Act of 1934, as amended, and, in accordance therewith, are required to file reports, including annual reports on Form 20-F, and other information with the U.S. Securities and Exchange Commission. You may inspect and copy these materials, including this annual report and the exhibits thereto, at SEC's Public Reference Room 100 Fifth Street, N.E., Washington, D.C. 20549. Please call the Commission at 1-800-SEC-0330 for further information on the public reference rooms. As a foreign private issuer, we are also required to make filings with the Commission by electronic means. Any filings we make electronically will be available to the public over the Internet at the Commission's web site at <http://www.sec.gov>.

ITEM 10.I. Subsidiary Information

Not applicable.

ITEM 11. *QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK*

See Item 4.B. Business Overview Risk Management for quantitative and qualitative disclosures about market risk.

ITEM 12. *DESCRIPTION OF SECURITIES OTHER THAN EQUITY SECURITIES*

ITEM 12.A. Debt Securities

Not applicable.

ITEM 12.B. Warrants and Rights

Not applicable.

ITEM 12.C. Other Securities

Not applicable.

ITEM 12.D. American Depositary Shares

Depository Fees and Charges

Under the terms of the Deposit Agreement in respect of our American depositary shares (ADSs), the holder of ADSs may be required to pay the following fees and charges to Citibank, N.A., acting as depository for our ADSs:

Item	Services	Fees	Paid by
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1	Issuance of ADSs upon deposit of common shares (excluding issuances contemplated by items 3(b) and 5 below	Up to US\$5.00 per 100 ADSs (or fraction thereof) issued	Person depositing common shares or person receiving ADSs
2	Delivery of deposited securities against surrender of ADSs	Up to US\$5.00 per 100 ADSs (or fraction thereof) surrendered	Person surrendering ADSs for purpose of withdrawal of deposited securities or person to whom deposited securities are delivered

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Item	Services	Fees	Paid by
3	Distribution of (a) cash dividends or (b) ADSs pursuant to stock dividends	No fee, to the extent prohibited by the exchange on which the ADSs are listed. If the charging of such fee is not prohibited, the fees specified in item 4 below shall be payable	Person to whom distribution is made
4	Distribution of (a) cash proceeds (i.e., upon sale of rights and other entitlements) or (b) free shares in the form of ADSs (not constituting a stock dividend)	Up to US\$2.00 per 100 ADSs (or fraction thereof) held	Person to whom distribution is made
5	Distribution of securities other than ADSs or rights to purchase additional ADSs (i.e., spinoff shares)	Up to US\$5.00 per 100 ADSs (or fraction thereof) distributed	Person to whom distribution is made
6	Depository Services	Unless prohibited by the exchange on which the ADSs are listed, up to US\$2.00 per 100 ADSs (or fraction thereof) held as of the last day of each calendar year, except to the extent of any cash dividend fee(s) charged under paragraph (3)(a) above during the applicable calendar year	Person holding ADSs on last day of calendar year
7	Distribution of ADSs pursuant to exercise of rights to purchase additional ADSs	Up to US\$2.00 per 100 ADSs (or fraction thereof) held	Person who exercises such rights

Holders and beneficial owners of ADSs, persons depositing common shares for deposit and persons surrendering ADSs for cancellation and for the purpose of withdrawing deposited securities shall be responsible for the following charges:

- (i) taxes (including applicable interest and penalties) and other governmental charges;
- (ii) such registration fees as may from time to time be in effect for the registration of common shares or other deposited securities on the share register and applicable to transfers of common shares or other deposited securities to or from the name of the custodian, the depository or any nominees upon the making of deposits and withdrawals, respectively;
- (iii) such cable, telex and facsimile transmission and delivery expenses as are expressly provided in the Deposit Agreement to be at the expense of the person depositing or withdrawing common shares or holders and

beneficial owners of ADSs;

- (iv) the expenses and charges incurred by the depositary in the conversion of foreign currency;
- (v) such fees and expenses as are incurred by the depositary in connection with compliance with exchange control regulations and other regulatory requirements applicable to common shares, deposited securities, ADSs and ADRs; and
- (vi) the fees and expenses incurred by the depositary, the custodian or any nominee in connection with the servicing or delivery of deposited securities.

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Depository fees payable upon the issuance and cancellation of ADSs are typically paid to the depository by the brokers (on behalf of their clients) receiving the newly-issued ADSs from the depository and by the brokers (on behalf of their clients) delivering the ADSs to the depository for cancellation. The brokers in turn charge these transaction fees to their clients.

Depository fees payable in connection with distributions of cash or securities to ADS holders and the depository services fee are charged by the depository to the holders of record of ADSs as of the applicable ADS record date. The depository fees payable for cash distributions are generally deducted from the cash being distributed. In the case of distributions other than cash (i.e., stock dividends, rights offerings), the depository charges the applicable fee to the ADS record date holders concurrent with the distribution. In the case of ADSs registered in the name of the investor (whether certificated or un-certificated in direct registration), the depository sends invoices to the applicable record date ADS holders. In the case of ADSs held in brokerage and custodian accounts via the central clearing and settlement system, The Depository Trust Company (DTC), the depository generally collects its fees through the systems provided by DTC (whose nominee is the registered holder of the ADSs held in DTC) from the brokers and custodians holding ADSs in their DTC accounts. The brokers and custodians who hold their clients' ADSs in DTC accounts in turn charge their clients' accounts the amount of the fees paid to the depository banks.

In the event of refusal to pay the depository fees, the depository may, under the terms of the Deposit Agreement, refuse the requested service until payment is received or may set-off the amount of the depository fees from any distribution to be made to the ADS holder.

The fees and charges the ADS holders may be required to pay may vary over time and may be changed by us and by the depository. The ADS holders will receive prior notice of such changes.

Depository Payments for the Fiscal Year 2018

In 2018, we received the following payments from Citibank, N.A., acting as depository for our ADSs:

Reimbursement of settlement infrastructure fees (including DTC fees)	US\$
Reimbursement of proxy process expenses (printing, postage and distribution)	US\$ 52,387.21
Legal expenses	US\$
Contributions towards our investor relations efforts (i.e. non-deal roadshows, investor conferences and IR agency fees) and legal expenses incurred in connection to the preparation of our Form 20-F for the fiscal year 2017	US\$ 178,205.37
Total:	US\$ 230,592.58

Note: The amounts provided above are after deduction of applicable of U.S. taxes.

ITEM 13. DEFAULTS, DIVIDEND ARREARAGES AND DELINQUENCIES

Not applicable.

ITEM 14. MATERIAL MODIFICATIONS TO THE RIGHTS OF SECURITY HOLDERS AND USE OF PROCEEDS

Not applicable.

ITEM 15. CONTROLS AND PROCEDURES

Disclosure Control

Under the supervision and with the participation of our management, including our chief executive officer and chief financial officer, we have evaluated the effectiveness of the design and operation of our disclosure

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controls and procedures (as defined in Rule 13a-15(e) under the Securities Exchange Act of 1934, as amended, or the Exchange Act) as of December 31, 2018. There are inherent limitations to the effectiveness of any system of disclosure controls and procedures, including the possibility of human error and the circumvention or overriding of the controls and procedures. Accordingly, even effective disclosure controls and procedures can provide only reasonable assurance of achieving their control objectives. Based upon our evaluation, our chief executive officer and chief financial officer concluded that the design and operation of our disclosure controls and procedures as of December 31, 2018 were effective to provide reasonable assurance that information required to be disclosed by us in the reports we file and submit under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the applicable rules and forms, and that it is accumulated and communicated to our management, including our chief executive officer and chief financial officer, as appropriate to allow timely decision regarding required disclosure.

Management's Annual Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act, for our company. Under the supervision and with the participation of our management, including our chief executive officer and chief financial officer, we have evaluated the effectiveness of our internal control over financial reporting as of December 31, 2018 based on the framework established in Internal Control-Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). Internal Control-Integrated Framework (2013) suspended the original framework issued by COSO in 1992 on December 15, 2014. We adopted the 2013 Framework on December 15, 2014. Further details of the changes made are set out below. Our internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of consolidated financial statements in accordance with generally accepted accounting principles and includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of a company's assets, (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of consolidated financial statements in accordance with generally accepted accounting principles, and that a company's receipts and expenditures are being made only in accordance with authorizations of a company's management and directors, and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of a company's assets that could have a material effect on the consolidated financial statements. Because of its inherent limitations, a system of internal control over financial reporting can provide only reasonable assurance with respect to consolidated financial statement preparation and presentation and may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate. Based on this evaluation, our management concluded that our internal control over financial reporting was effective as of December 31, 2018. The effectiveness of our internal control over financial reporting has been audited by KPMG Samjong, an independent registered public accounting firm, who has also audited our consolidated financial statements for the year ended December 31, 2018. KPMG Samjong has issued an attestation report on the effectiveness of our internal control over financial reporting under Auditing Standard No. 5 of the Public Company Accounting Oversight Board, which is included herein.

Attestation Report of the Independent Registered Public Accounting Firm

KPMG Samjong's attestation report on the effectiveness of internal control over financial reporting can be found on page F-2 of this annual report.

ITEM 16. [RESERVED]

ITEM 16A. AUDIT COMMITTEE FINANCIAL EXPERT

Our Audit Committee currently consists of three outside directors, namely Lee Manwoo, Sung Jae-ho and Lee Yoon-jae. Our board of directors has determined that Lee Manwoo, the chairman of our Audit Committee is

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an audit committee financial expert, as such term is defined by the regulations of the Securities and Exchange Commission issued pursuant to Section 407 of the Sarbanes-Oxley Act of 2002. Lee Manwoo, Sung Jae-ho and Lee Yoon-jae are independent as such term is defined in Section 303A.02 of the NYSE Listed Company Manual, Rule 10A-3 under the Exchange Act and the Korea Stock Exchange listing standards.

ITEM 16B. CODE OF ETHICS

We have adopted a code of ethics for our principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions as required under Section 406 of the Sarbanes-Oxley Act of 2002, together with an insider reporting system in compliance with Section 301 of the Sarbanes-Oxley Act. We have not granted any waiver, including an implicit waiver, from a provision of the code of ethics to any of the above-mentioned officers during our most recently completed fiscal year. As a further detailed guideline to the code of ethics, we have also adopted a code of ethics applicable to all the officers and employees of our holding company and our subsidiaries and established a supplemental code of behavior for all officers and employees of our holding company and our subsidiaries in order to provide additional guideline for the performance of their work-related duties as well as their daily behavior. Our code of ethics is available on our website www.shinhangroup.com.

ITEM 16C. PRINCIPAL ACCOUNTANT FEES AND SERVICES

The following table sets forth the aggregate fees billed for professional services rendered by KPMG Samjong Accounting Corp. for the years ended December 31, 2016, 2017 and 2018, our principal accountants for the respective period, depending on the various types of services and a brief description of the nature of such services.

Type of Services	Aggregate Fees Billed During the Year Ended December 31,			Nature of Services
	2016	2017	2018	
	(In millions of Won)			
Audit fees	₩ 6,447	₩ 7,572	₩ 8,009	Audit service for Shinhan Financial Group and its subsidiaries.
Audit related fees			40	Due diligence services rendered in the ordinary course of our business
Tax fees	288	265	209	Tax return and consulting advisory service.
All other fees				All other services which do not meet the two categories above. ⁽¹⁾
Total	₩ 6,735	₩ 7,837	₩ 8,258	

Note:

(1) Due diligence service fee.

Our Audit Committee generally pre-approves all engagements of our principal accountants pursuant to policies and procedures adopted by it. Our Audit Committee has adopted the following policies and procedures for consideration and approval of requests to engage our principal accountants to perform audit and non-audit services. Engagement requests must in the first instance be submitted as follows: (i) in the case of audit and non-audit services for our holding company, to our Planning & Financial Management subject to reporting to our Chief Financial Officer; and (ii) in the case of audit and non-audit services for our subsidiaries, to our Audit and Compliance Team subject to reporting to the Senior Executive Vice President of Audit & Compliance Team. If the request relates to services that would impair the independence of our principal accountants, the request must be rejected. If the engagement request relates to audit and permitted non-audit services, it must be forwarded to the Audit Committee for consideration. To facilitate the consideration of engagement requests between its

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meetings, the Audit Committee has delegated approval authority of the following: (i) permitted non-audit services to our holding company, (ii) audit services to our subsidiaries and (iii) permitted non-audit services to our subsidiaries, to one of its members who is independent as defined by the Securities and Exchange Commission and the New York Stock Exchange. Such member in our case is Lee Manwoo, the chairman of our Audit Committee, and he is required to report any approvals made by them to the Audit Committee at its next meeting. Our Audit Committee meets regularly once every quarter.

Any other audit or permitted non-audit service must be pre-approved by the Audit Committee on a case-by-case basis. Our Audit Committee did not pre-approve any non-audit services under the de minimis exception of Rule 2.01(c)(7)(i)(C) of Regulation S-X as promulgated by the Securities and Exchange Commission.

ITEM 16D. *EXEMPTIONS FROM THE LISTING STANDARDS FOR AUDIT COMMITTEES*

Not applicable.

ITEM 16E. *PURCHASES OF EQUITY SECURITIES BY THE ISSUER AND AFFILIATED PURCHASERS*

Neither we nor any affiliated purchaser, as defined in Rule 10b-18(a)(3) of the Exchange Act, purchased any of our equity securities during the period covered by this annual report.

ITEM 16F. *CHANGE IN REGISTRANT'S CERTIFYING ACCOUNTANT*

Not applicable.

ITEM 16G. *CORPORATE GOVERNANCE*

We are committed to high standards of corporate governance. We are in compliance with the corporate governance provisions of the Korean Commercial Code, the Financial Holding Companies Act of Korea, the Act on Corporate Governance of Financial Companies, the Financial Investment Services and Capital Markets Act and the Listing Rules of the Korea Exchange. We, like all other companies in Korea, must comply with the corporate governance provisions of the Korean Commercial Code. In addition, as a financial holding company, we are also subject to the Financial Holding Companies Act and the Act on Corporate Governance of Financial Companies. Also, our subsidiaries that are financial institutions must comply with the respective corporate governance provisions under the Act on Corporate Governance of Financial Companies and relevant laws under which they were established.

The Act on Corporate Governance of Financial Companies came into effect as of August 1, 2016. The Act was enacted to address calls for strengthened regulations on corporate governance of financial companies and to serve as a uniform regulation on corporate governance matters applicable to all financial companies in place of the separate regulations for each sector that existed. The Act contains several key measures, including, but not limited, to (i) condition of eligibility of officers of financial companies and standards for determining whether financial companies' officers may hold concurrent positions in other companies, (ii) standards for composition and operation of board of directors, (iii) standards for establishment, composition and operation of committees of the board of directors, (iv) internal control and risk management, (v) requirements and procedures for the approval of a change of major shareholders and (vi) special regulations for rights of minority shareholders of financial companies.

We are a foreign private issuer (as such term is defined in Rule 3b-4 under the Exchange Act), and our ADSs are listed on the New York Stock Exchange, or NYSE. Under Section 303A of the NYSE Listed Company Manual, NYSE-listed companies that are foreign private issuers are permitted to follow home country practice in

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lieu of the corporate governance provisions specified by the NYSE with limited exceptions. Under the NYSE Listed Company Manual, we as a foreign private issuer are required to disclose significant differences between NYSE's corporate governance standards and those we follow under Korean law. The following summarizes some significant ways in which our corporate governance practices differ from those followed by U.S. companies listed on the NYSE under the listing rules of the NYSE:

Majority of Independent Directors on the Board

Under the NYSE listing rules, U.S. companies listed on the NYSE must have a board the majority of which is comprised of independent directors satisfying the requirements of independence as set forth in Rule 10A-3 under the Exchange Act. While as a foreign private issuer, we are exempt from this requirement, but our board of directors is in compliance with this requirement as it currently consists of 13 directors, of which eleven directors satisfy the requirements of independence as set forth in Rule 10A-3 under the Exchange Act. Eleven of our directors are also outside directors as defined in the Financial Holding Companies Act of Korea. An outside director for purposes of the Act on Corporate Governance of Financial Companies and the Korean Commercial Code means a director who does not engage in the regular affairs of the financial holding company, and who is elected at a shareholders' meeting, after having been nominated by the outside director nominating committee, and none of the largest shareholder, those persons specially related to the largest shareholder of such company, persons who during the past two years have served as an officer or employee of such company, the spouses and immediate family members of an officer of such company, and certain other persons specified by law may qualify as an outside director of such company. Under the Korea Exchange listing rules and the Korean Commercial Code, at least one-fourth of a listed company's directors must be outside directors. In the case of large listed companies as defined under the Korean Commercial Code, like us, a majority of the directors must be outside directors provided that there must be at least three outside directors.

Executive Session

Under the NYSE listing rules, non-management directors of U.S. companies listed on the NYSE are required to meet on a regular basis without management present and independent directors must meet separately at least once per year. There is no such requirement under Korean law or listing standards or our internal regulations.

Audit Committee

Under the NYSE listing rules, listed companies must have an audit committee that has a minimum of three members, and all audit committee members must satisfy the requirements of independence set forth in Section 303A.02 of the NYSE Listed Company Manual and Rule 10A-3 under the Exchange Act. We are in compliance with this requirement as our Audit Committee is comprised of three outside directors meeting the requirements of independence set forth in Section 303A.02 of the NYSE Listed Company Manual and Rule 10A-3 under the Exchange Act. Under the Korea Exchange listing rules and the Korean Commercial Code, a large listed company must also establish an audit committee of which at least two-thirds of its members must be outside directors and whose chairman must be an outside director. In addition, under the Act on Corporate Governance of Financial Companies, at least one member of the audit committee who is an outside director must also be an accounting or financial expert. We are also in compliance with the foregoing requirements.

Nomination/Corporate Governance Committee

Under the NYSE listing rules, U.S. companies listed on the NYSE must have a nomination/corporate governance committee composed entirely of independent directors. In addition to identifying individuals qualified to become board members, this committee must develop and recommend to the board a set of corporate governance principles.

Under the Korean Commercial Code and other applicable laws, large listed companies, financial holding companies, commercial banks, and certain other financial institutions are required to have an

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outside director nominating committee of which at least one-half of its members are required to be outside directors. However, there is no requirement to establish a corporate governance committee under applicable Korean law. Our outside director nominating committee is formed on an ad hoc basis prior to a general shareholders meeting if the agenda for such meeting includes appointment of an outside director. The composition of the committee is in compliance with the relevant provisions under the Korean Commercial Code and the Act on Corporate Governance of Financial Companies, and the chairman of the committee must be an outside director pursuant to the Act on Corporate Governance of Financial Companies.

Although a corporate governance committee is not required under Korean law, in March 2012, we established the Corporate Governance and Chief Executive Officer Recommendation Committee, which is responsible for reviewing and making recommendations in relation to the overall corporate governance of our group (including any aspects of corporate governance relating to code of ethics and other code of behavior, size of the board of directors and other matters necessary for improving our overall corporate governance structure), as well as recommendation of the nominees for the president and/or chief executive officer of our group and development, operation and review of our management succession plan, including setting the qualifications for the CEO, evaluating CEO candidate pool and recommending CEO candidates. The chairperson of the committee must be an outside director, and the incumbent CEO may be restricted from participating and voting on matters related to the CEO selection.

Compensation Committee

Under the NYSE listing rules, U.S. companies listed on the NYSE are required to have a compensation committee which is composed entirely of independent directors. In January 2013, the SEC approved amendments to the listing rules of NYSE and NASDAQ regarding the independence of compensation committee members and the appointment, payment and oversight of compensation consultants. The listing rules were adopted as required by Section 952 of the Dodd-Frank Act and rule 10C-1 of the Securities Exchange Act of 1934, as amended, which direct the national securities exchanges to prohibit the listing of any equity security of a company that is not in compliance with the rules compensation committee director and advisor independence requirements. Certain elements of the listing rules became effective on July 1, 2013 and companies listed on the NYSE must comply with such listing rules by the earlier of the company's first annual meeting after January 15, 2014, or October 31, 2014.

Under the Act on Corporate Governance of Financial Companies, financial institutions including financial holding companies must establish a compensation committee of which at least one-half of its members must be outside directors and whose chairman must be an outside director.

We currently have a remuneration committee, which is responsible for reviewing and approving the management's evaluation and compensation programs. The committee consists of three members, all of whom are outside directors and satisfy the independent director requirements as set forth in Rule 10A-3 under the Exchange Act.

Corporate Governance Guidelines and Code of Business Conduct and Ethics

Under the NYSE listing rules, U.S. companies listed on the NYSE are required to establish corporate governance guidelines and to adopt a code of business conduct and ethics for directors, officers and employees, and promptly disclose any waivers of the code for directors or executive officers. As a foreign private issuer, we are exempt from this requirement. In Korea, the Financial Services Commission implemented the Standard Corporate Governance Guidelines for Financial Service Companies in December 2014, and accordingly, we have adopted in February 2015 and are currently complying with international regulators on corporate governance modeled after the standard guidelines implemented by the Financial Services Commission,

Pursuant to the requirements of the Sarbanes-Oxley Act, we have adopted a code of ethics applicable to all the officers and employees of our holding company and our subsidiaries, including all financial, accounting and

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other officers and employees that are involved in the preparation and disclosure of Shinhan Financial Group's consolidated financial statements and internal control of financial reporting. As a further detailed guideline to the code of ethics, we have also established a supplemental code of behavior for all officers and employees of our holding company and our subsidiaries in order to provide additional guideline for the performance of their work-related duties as well as their daily behavior. We have also adopted an insider reporting system in compliance with Section 301 of the Sarbanes-Oxley Act. The above-mentioned code of ethics and the code of behavior are available on our website www.shinhangroup.com.

On May 25, 2011, the SEC adopted final rules to implement whistleblower provisions of the Dodd-Frank Act, which are applicable to foreign private issuers with securities registered under the U.S. securities laws. The final rules provide that any eligible whistleblower who voluntarily provides the SEC with original information that leads to the successful enforcement of an action brought by the SEC under U.S. securities laws must receive an award of between 10 and 30 percent of the total monetary sanctions collected if the sanctions exceed US\$1,000,000. An eligible whistleblower is defined as someone who provides information about a possible violation of the securities laws that he or she reasonably believes has occurred, is ongoing, or is about to occur. The possible violation does not need to be material, probably or even likely, but the information must have a factually plausible relationship to some securities law violation; frivolous submissions would not qualify. The final rules also prohibit retaliation against the whistleblower. While the final rules do not require employees to first report allegations of wrongdoing through a company's corporate compliance system, they do seek to incentivize whistleblowers to utilize internal corporate compliance first by, among other things, (i) giving employees who first report information internally the benefit of the internal reporting date for purposes of the SEC program so long as the whistleblower submits the same information to the SEC within 120 days of the initial disclosure; (ii) clarifying that the SEC will consider, as part of the criteria for determining the amount of a whistleblower's award, whether the whistleblower effectively utilized the company's corporate compliance program or hindered the function of the program; and (iii) crediting a whistleblower who reports internally first and whose company passes the information along to the SEC, which would mean the whistleblower could receive a potentially higher award for information gathered in an internal investigation initiated as a result of the whistleblower's internal report.

In addition, the final rules address concerns that the whistleblower rules incentivize officers, directors and those with legal, audit, compliance or similar responsibilities to abuse these positions by making whistleblower complaints to the SEC with respect to information they obtained in these roles by generally providing that information obtained through a communication subject to attorney-client privilege or as a result of legal representation would not be eligible for a whistleblower award unless disclosure would be permitted by attorney conduct rules. Accordingly, officers and directors, auditors and compliance personnel and other persons in similar roles would not be eligible to receive awards for information received in these positions unless (x) they have a reasonable basis to believe that (1) disclosure of the information is necessary to prevent the entity from engaging in conduct that is likely to cause substantial injury to the financial interests of the entity or investors; or (2) the entity is engaging in conduct that will impede an investigation of the misconduct, for example, destroying documents or improperly influencing witnesses; or (y) 120 days have passed since the whistleblower provided the information to senior responsible persons at the entity or 120 days have passed since the whistleblower received the information at a time when these people were already aware of the information.

In Korea, the Act on the Protection of Public Interest Whistleblowers (the Act on Whistleblowers) was enacted in March 29, 2011 and became effective on September 30, 2011, and was last amended on April 17, 2018. Under the Act on Whistleblowers, a conduct detrimental to the public interest means any conduct falling under the penalty provisions of certain acts or any conduct subject to administrative measures such as cancellation or suspension of an approval or a permit. As the Financial Holding Companies Act is included in the certain acts above, any conduct falling under the penalty provisions or subject to administrative measures for a violation of the Financial Holding Companies Act

constitutes a conduct detrimental to the public interest. Any person deeming that a conduct detrimental to the public interest has been, or is likely to be, committed may make a public interest report to a representative of the organization involved or a relevant investigative agency. The

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personal information of a public interest whistleblower shall be kept in confidence, and the measures necessary for personal protection of a public interest whistleblower shall be taken. In addition, any disadvantageous measures against a public interest whistleblower, including discriminatory treatment and delayed payment of wage, are prohibited, and where a public interest report leads to a recovery of, or increase in, revenues of the Government, the public interest whistleblower may be entitled to compensation by the Anti-Corruption and Civil Rights Commission of Korea.

We established a group-wide whistleblower policy in July 2005 and maintain related policies and programs for most of our subsidiaries. For example, Shinhan Bank maintains a whistleblower program named *Shinhan Jikimi*, through which any employee, vendor or customer can raise concerns and report suspicious circumstances in confidence using a variety of channels including the Internet, email, postal mail, facsimile and mobile phones. In addition, Shinhan Bank distributes to its employees a quarterly email notice intended to raise awareness of the whistleblower program and posts relevant informative materials on the company bulletin board. At Shinhan Card and Shinhan Investment, we strive to maintain transparency in every aspect of business activities and provide secure and accessible channels for all related parties to raise concerns and report violations.

Shareholder Approval of Equity Compensation Plans

Under the NYSE listing rules, shareholders of U.S. companies listed on the NYSE are required to approve all equity compensation plans.

Under Korean law, if a company issues stock options amounting to 10% or more of its issued and outstanding shares, only a board of director resolution is required for such issuance if permitted by such company's articles of incorporation. Under our articles of incorporation, we may also grant stock options, but since April 1, 2010, we have not granted any stock options.

We currently have two equity compensation plans, consisting of a performance share plan for directors and key employees and an employee stock ownership plan for all employees under the Framework Act on Labor Welfare.

In accordance with our internal regulations, performance shares granted to directors are granted pursuant to a resolution by the board of director, subject to the limit amount set by a resolution at the shareholders' meeting while performance shares granted to key employees are granted pursuant to a resolution by the board of director, without any requirement that the limit amount be approved at the shareholders' meeting. There are no requirements relating to the granting of performance shares under applicable Korean laws and our articles of incorporation.

Under the Framework Act on Labor Welfare, a Korean company may issue stock options up to 20% of its issued and outstanding shares by a resolution at the shareholders' meeting, if permitted by the articles of incorporation. Our articles of incorporation does not contain such provision. The equity compensation scheme for the employee stock ownership association is governed by its internal regulations, over which we have no control under Korean law.

Annual Certification of Compliance

Under the NYSE listing rules, a chief executive officer of a U.S. company listed on the NYSE must annually certify that he or she is not aware of any violation by the company of NYSE corporate governance standards. As a foreign private issuer, we are not subject to this requirement. However, in accordance with rules applicable to both U.S. companies and foreign private issuers, we are required to promptly notify the NYSE in writing if any executive officer becomes aware of any material noncompliance with the NYSE corporate governance standards applicable to us. In addition, foreign private issuers, including us, are required to submit to the NYSE an annual written affirmation

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listed company manual, which are the NYSE corporate governance standards applicable to foreign private issuers. All written affirmations must be executed in the form provided by the NYSE, without modification. An annual written affirmation is required to be submitted to the NYSE within 30 days of filing with the SEC our annual report on Form 20-F. We have been in compliance with this requirement in all material respects and plan to submit such affirmation within the prescribed timeline.

ITEM 16H. *MINE SAFETY DISCLOSURE*

Not applicable.

ITEM 17. *FINANCIAL STATEMENTS*

We have responded to Item 18 in lieu of responding to this item.

ITEM 18. *FINANCIAL STATEMENTS*

Reference is made to Item 19(a) for a list of all financial statements filed as part of this annual report.

ITEM 19. *EXHIBITS*

(a) Exhibits filed as part of this Annual Report:

See Exhibit Index beginning on page 288 of this annual report.

(b) Financial Statements filed as part of this Annual Report:

See Index to Financial Statements on page F-1 of this annual report.

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INDEX OF EXHIBITS

- 1.1 Articles of Incorporation, last amended as of March 27, 2019 (in English)
- 2.1 Form of Common Stock Certificate (in English) *
- 2.2 Form of Deposit Agreement to be entered into among Shinhan Financial Group, Citibank, N.A., as depositary, and all owners and holders from time to time of American depositary shares issued thereunder, including the form of American depositary receipt*
- 2.3 Long-term debt instruments of Shinhan Financial Group, Shinhan Bank and other consolidated subsidiaries for which financial statements are required to be filed are omitted pursuant to Item 601(b)(4)(iii) of Regulation S-K. Shinhan Financial Group agrees to furnish the Commission on request a copy of any instrument defining the rights of holders of its long-term debt and that of any subsidiary for which consolidated or unconsolidated financial statements are required to be filed.*
- 4.1 Stock Purchase Agreement by and between Korea Deposit Insurance Corporation and Shinhan Financial Group dated July 9, 2003**
- 4.2 Investment Agreement by and between Shinhan Financial Group and Korea Deposit Insurance Corporation dated July 9, 2003*
- 4.3 Agreed Terms, dated June 22, 2003, by and among the President of Korea Deposit Insurance Corporation, CEO of Shinhan Financial Group, CEO of Chohung Bank, Chairman of the National Financial Industry Labor Union of Korea and the Head of the Chohung Bank Chapter of the National Financial Industry Labor Union*
- 4.4 Merger Agreement between Shinhan Bank and Chohung Bank (in English) ***
- 4.5 Split-Merger Agreement between Shinhan Card and Chohung Bank (in English) ****
- 4.6 Form of Share Purchase Agreement, dated January 17, 2007, by and between Shinhan Financial Group and the holders of the redeemable preferred shares and the redeemable convertible shares issued by Shinhan Financial Group as part of the funding for the acquisition of LG Card Co., Ltd. (in English) *****
- 4.7 LG Card Acquisition Agreement, dated 2006, between Korea Development Bank and 13 other financial institutions, on the one hand, and Shinhan Financial Group *****
- 8.1 List of all subsidiaries of Shinhan Financial Group
- 12.1 Certifications of our Chief Executive Officer required by Rule 13a-14(a) of the Exchange Act
- 12.2 Certifications of our Chief Financial Officer required by Rule 13a-14(a) of the Exchange Act
- 13.1 Certifications of our Chief Executive Officer required by Rule 13a-14(b) and Section 1350 of Chapter 63 of the United States Code (18 U.S.C. 1350)
- 13.2 Certifications of our Chief Financial Officer required by Rule 13a-14(b) and Section 1350 of Chapter 63 of the United States Code (18 U.S.C. 1350)
- 101 Interactive Data Files (XBRL-Related Documents)

A fair and accurate translation from Korean into English.

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- * Incorporated by reference to the registrant's previous filing on Form 20-F (No. 001-31798), filed on September 15, 2003.
- ** Incorporated by reference to the registrant's previous filing on Form 20-F (No. 001-31798), filed on September 15, 2003. Confidential treatment has been requested for certain portions of the Stock Purchase Agreement.
- *** Incorporated by reference to the registrant's previous filing on Form 20-F (No. 001-31798), filed on June 30, 2006.
- **** Incorporated by reference to the registrant's previous filing on Form 20-F (No. 001-31798), filed on June 29, 2007.
- ***** Incorporated by reference to registrant's previous filing on Form 20-F (No. 001-31798), filed on June 30, 2008.

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SIGNATURES

The registrant hereby certifies that it meets all of the requirements for filing on Form 20-F and that it has duly caused and authorized the undersigned to sign this annual report on its behalf.

Date: April 30, 2019

Shinhan Financial Group Co., Ltd.

By: /s/ Cho Yong-byoung
Name: Cho Yong-byoung
Title: Chairman and Chief Executive
Officer

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INDEX TO CONSOLIDATED FINANCIAL STATEMENTS

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Gangnam Finance Center 27th Floor, Fax 82-2-2112-0101

152, Teheran-ro, Gangnam-gu, Seoul 06236 www.kr.kpmg.com

Report of Independent Registered Public Accounting Firm

To the Stockholders and Board of Directors

Shinhan Financial Group Co., Ltd.:

Opinions on the Consolidated Financial Statements and Internal Control Over Financial Reporting

We have audited the accompanying consolidated statements of financial position of Shinhan Financial Group Co., Ltd. and subsidiaries (the Group) as of December 31, 2017 and 2018, the related consolidated statements of comprehensive income, changes in equity, and cash flows for each of the years in the three-year period ended December 31, 2018, and the related notes (collectively, the consolidated financial statements). We also have audited the Group's internal control over financial reporting as of December 31, 2018, based on criteria established in Internal Control Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Group as of December 31, 2017 and 2018, and the results of its operations and its cash flows for each of the years in the three-year period ended December 31, 2018, in conformity with International Financial Reporting Standards as issued by the International Accounting Standards Board. Also in our opinion, the Group maintained, in all material respects, effective internal control over financial reporting as of December 31, 2018 based on criteria established in Internal Control Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission.

Adoption of IFRS 9 Financial Instruments

As discussed in Note 2 to the consolidated financial statements, the Group has changed its method of accounting for financial assets and financial liabilities in 2018 due to the adoption of IFRS 9 *Financial Instruments*.

Basis for Opinions

The Group's management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Annual Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Group's consolidated financial statements and an opinion on the Group's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Group in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the *consolidated* financial statements are free of

material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

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Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

Definition and Limitations of Internal Control Over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ KPMG Samjong Accounting Corp.

We have served as the Group's auditor since 2002.

Seoul, Korea

April 30, 2019

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Consolidated Statements of Financial Position

As of December 31, 2017 and 2018

<i>(In millions of won)</i>	Note	2017	2018
Assets			
Cash and due from banks at amortized cost	4,8,24,60	₩	17,348,626
Cash and due from banks	4,9,24,60	22,668,598	
Financial assets at fair value through profit or loss	4,10,24,60		43,534,766
Trading assets	4,11,24,60	28,464,296	
Financial assets designated at fair value through profit or loss (IAS 39)	4,12,24,60	3,579,057	
Derivative assets	4,13,60	3,400,178	1,793,613
Securities at fair value through other comprehensive income	4,16,24,60		38,314,170
Available-for-sale financial assets	4,17,24,60	42,116,937	
Securities at amortized cost	4,16,24,60		28,478,136
Held-to-maturity financial assets	4,17,24,60	24,990,680	
Loans at amortized cost	4,14,24,60		299,609,472
Loans	4,15,24,60	275,565,766	
Property and equipment	18,24	3,021,772	3,003,886
Intangible assets	19,58	4,273,321	4,320,134
Investments in associates	20	631,294	671,330
Current tax receivable		25,015	45,100
Deferred tax assets	51	592,283	426,965
Investment property	21	418,303	474,820
Other assets	4,22,60	16,551,958	21,571,918
Assets held for sale		7,550	7,574
Total assets		₩426,307,008	459,600,510
Liabilities			
Deposits	4,25,60	₩249,419,224	265,000,190
Financial liabilities at fair value through profit or loss	4,26,60		1,420,306
Trading liabilities	4,27,60	1,848,490	
Financial liabilities designated at fair value through profit or loss (IFRS 9)	4,28,60		8,535,800
Financial liabilities designated at fair value through profit or loss (IAS 39)	4,29,60	8,297,609	
Derivative liabilities	4,13,60	3,487,661	2,439,892
Borrowings	4,30,60	27,586,610	29,818,542
Debt securities issued	4,31,60	51,340,821	63,227,699
Liabilities for defined benefit obligations	32	7,144	127,348
Provisions	33	428,958	508,416
Current tax payable		348,830	430,306

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Deferred tax liabilities	51	9,982	22,020
Liabilities under insurance contracts	34	24,515,288	26,218,882
Other liabilities	4,35,60	25,312,773	25,199,679
Total liabilities		₩ 392,603,390	422,949,080
Equity	36		
Capital stock		₩ 2,645,053	2,645,053
Hybrid bonds		423,921	1,531,759
Capital surplus		9,887,335	9,895,488
Capital adjustments		(398,035)	(552,895)
Accumulated other comprehensive loss	60	(529,734)	(753,220)
Retained earnings	57,60	20,791,681	22,959,440
Total equity attributable to equity holders of Shinhan Financial Group Co., Ltd.		32,820,221	35,725,625
Non-controlling interests		883,397	925,805
Total equity		33,703,618	36,651,430
Total liabilities and equity		₩ 426,307,008	459,600,510

See accompanying notes to the consolidated financial statements.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Consolidated Statements of Comprehensive Income

For the years ended December 31, 2016, 2017 and 2018

<i>(In millions of won)</i>	Notes	2016	2017	2018
Interest income		₩ 11,236,302	11,798,654	13,572,456
Interest expense		(4,030,936)	(3,955,701)	(4,992,367)
Net interest income	38	7,205,366	7,842,953	8,580,089
Fees and commission income		3,803,596	4,044,955	3,295,256
Fees and commission expense		(2,238,057)	(2,334,001)	(1,356,259)
Net fees and commission income	39	1,565,539	1,710,954	1,938,997
Insurance income		4,586,098	4,599,808	4,398,738
Insurance expenses		(5,004,602)	(5,059,847)	(4,870,437)
Net insurance loss	34	(418,504)	(460,039)	(471,699)
Dividend income	40	281,623	257,306	87,826
Net gain on financial instruments at fair value through profit or loss	41			420,026
Net gain on financial instruments at fair value through profit or loss (overlay approach)	10			74,944
Net trading income	42	369,510	963,223	
Net loss on financial instruments designated at fair value through profit or loss	43			(26,643)
Net gain (loss) on financial instruments designated at fair value through profit or loss	44	(501,955)	(1,059,826)	
Net foreign currency transaction gain		461,671	364,006	194,136
Net gain on disposal of financial asset at fair value through other comprehensive income	16			20,554
Net gain on disposal of available-for-sale financial assets	17	647,541	499,187	
Net loss on disposal of securities at amortized cost	16			(9)
Provision for credit loss allowance	45			(747,877)
Impairment loss on financial assets	46	(1,195,663)	(1,013,548)	
General and administrative expense	47	(4,508,575)	(4,811,198)	(4,741,575)
Other operating expenses, net	49	(797,911)	(462,992)	(829,355)
Operating income		3,108,642	3,830,026	4,499,414
Equity method income	20	9,995	20,393	17,488
Other non-operating income (expense), net	50	51,835	(52,811)	(50,292)

Profit before income taxes		3,170,472	3,797,608	4,466,610
Income tax expense	51	345,553	848,403	1,268,345
Profit for the year		₩ 2,824,919	2,949,205	3,198,265

See accompanying notes to the consolidated financial statements.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Consolidated Statements of Comprehensive Income (Continued)

For the years ended December 31, 2016, 2017 and 2018

<i>(In millions of won, except earnings per share)</i>	Notes	2016	2017	2018
Other comprehensive income (loss) for the year, net of income tax				
Items that are or may be reclassified to profit or loss:				
Gain on financial asset at fair value through other comprehensive income		₩		161,008
Loss on financial instruments at fair value through profit or loss (overlay approach)	10			(54,333)
Gain (loss) on available-for-sale financial assets		(433,657)	(323,127)	
Equity in other comprehensive income (loss) of associates		2,691	(22,813)	7,407
Foreign currency translation adjustments for foreign operations		12,103	(194,172)	19,983
Net change in unrealized fair value of cash flow hedges		(1,262)	15,904	(20,192)
Other comprehensive income (loss) of separate account		(4,330)	(9,278)	8,676
		(424,455)	(533,486)	122,549
Items that will never be reclassified to profit or loss:				
Remeasurements of the defined benefit liability		15,307	103,525	(93,098)
Equity in other comprehensive income (loss) of associates		(2)	847	28
Valuation gain on financial asset at fair value through other comprehensive income				22,725
Loss on disposal of financial asset at fair value through other comprehensive income				(2,635)
Changes in own credit risk on financial liabilities designated at fair value through profit of loss				1,723
		15,305	104,372	(71,257)
Total other comprehensive loss, net of income tax	36	(409,150)	(429,114)	51,292
Total comprehensive income for the year		₩ 2,415,769	2,520,091	3,249,557
Profit for the year attributable to:				
Equity holders of Shinhan Financial Group Co., Ltd.	36,52	₩ 2,774,778	2,918,816	3,156,722
Non-controlling interest		50,141	30,389	41,543
		₩ 2,824,919	2,949,205	3,198,265
Total comprehensive income attributable to:				
Equity holders of Shinhan Financial Group Co., Ltd.		₩ 2,367,062	2,491,251	3,207,602

Non-controlling interest		48,707	28,840	41,955
		₩ 2,415,769	2,520,091	3,249,557
Earnings per share:		36,52		
Basic and diluted earnings per share in won		₩ 5,736	6,118	6,579

See accompanying notes to the consolidated financial statements.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Consolidated Statements of Changes in Equity

For the years ended December 31, 2016, 2017 and 2018

(in millions of Korean won)

	Equity attributable to equity holders of Shinhan Financial Group Co., Ltd.						Sub-total	Non-controlling interests	Total
	Capital stock	Hybrid bonds	Capital surplus	Capital adjustments	Accumulated other comprehensive income	Retained earnings			
Balance at January 1, 2016	₩2,645,053	736,898	9,887,335	(423,536)	304,771	17,689,134	30,839,655	973,401	31,813,056
Comprehensive income for the year									
Profit for the year						2,774,778	2,774,778	50,141	2,824,919
Other comprehensive income (loss), net of income tax:									
Foreign currency translation adjustments					12,012		12,012	91	12,103
Net change in unrealized fair value of available-for-sale financial assets					(432,530)		(432,530)	(1,127)	(433,657)
Equity in other comprehensive income of associates					2,689		2,689		2,689
Net change in unrealized fair value of cash flow hedges					(1,262)		(1,262)		(1,262)
Other comprehensive income of separate account measurements defined					(4,330)		(4,330)		(4,330)
					15,705		15,705	(398)	15,307

Benefit plans							
Total other comprehensive income (loss)	(407,716)		(407,716)	(1,434)	(409,150)		
Total comprehensive income (loss)	(407,716)	2,774,778	2,367,062	48,707	2,415,769		
Other changes in equity							
Dividends		(630,978)	(630,978)		(630,978)		
Dividends to hybrid bonds		(36,091)	(36,091)		(36,091)		
Redemption of hybrid bonds	(238,582)	(1,418)	(240,000)		(240,000)		
Redemption of preferred stock		(1,125,906)	(1,125,906)		(1,125,906)		
Change in other capital							
Adjustments	(33,507)	362	(30,899)	(64,044)	(64,044)		
Redemption of subsidiary's hybrid bond and other change in non-controlling interests						(386,826)	(386,826)
	(238,582)	(34,925)	362	(1,823,874)	(2,097,019)	(386,826)	(2,483,845)

See accompanying notes to the consolidated financial statements

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Consolidated Statements of Changes in Equity (Continued)

For the years ended December 31, 2016, 2017 and 2018

	Equity attributable to equity holders of Shinhan Financial Group Co., Ltd.						Sub-total	Non-controlling interests	Total
	Capital stock	Hybrid bonds	Capital surplus	Capital adjustments	Accumulated other comprehensive income	Retained earnings			
Balance at December 31, 2016	₩ 2,645,053	498,316	9,887,335	(458,461)	(102,583)	18,640,038	31,109,698	635,282	31,744,980
Balance at January 1, 2017	₩ 2,645,053	498,316	9,887,335	(458,461)	(102,583)	18,640,038	31,109,698	635,282	31,744,980
Total comprehensive income for the period									
Profit for the year						2,918,816	2,918,816	30,389	2,949,205
Other comprehensive income (loss), net of income tax:									
Foreign currency translation adjustments					(193,474)		(193,474)	(698)	(194,172)
Net change in unrealized fair value of available-for-sale financial assets					(322,056)		(322,056)	(1,071)	(323,127)
Equity in other comprehensive loss of associates					(21,552)	(414)	(21,966)		(21,966)
Net change in unrealized fair value of cash flow hedges					15,904		15,904		15,904
Other					(9,278)		(9,278)		(9,278)
Total comprehensive income of									

Separate account remeasurements of defined benefit plans	103,305		103,305	220	103,525
Total other comprehensive loss	(427,151)	(414)	(427,565)	(1,549)	(429,114)
Total comprehensive income (loss)	(427,151)	2,918,402	2,491,251	28,840	2,520,091
Other changes in equity					
Dividends		(687,589)	(687,589)		(687,589)
Dividends to hybrid bonds		(17,678)	(17,678)		(17,678)
Issuance of hybrid bonds	224,466		224,466		224,466
Redemption of hybrid bond	(298,861)	(1,139)	(300,000)		(300,000)
Change in other capital adjustments		61,565	(61,493)	72	72
Change in other non-controlling interests				219,275	219,275
	(74,395)	60,426	(766,760)	219,275	(561,454)

See accompanying notes to the consolidated financial statements

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Consolidated Statements of Changes in Equity (Continued)

For the years ended December 31, 2016, 2017 and 2018

	Equity attributable to equity holders of Shinhan Financial Group Co., Ltd.						Sub-total	Non-controlling interests	Total
	Capital stock	Hybrid bonds	Capital surplus	Capital adjustments	Accumulated other comprehensive income	Retained earnings			
Balance at December 31, 2017	₩ 2,645,053	423,921	9,887,335	(398,035)	(529,734)	20,791,680	32,820,220	883,397	33,703,617
Balance at January 1, 2018	₩ 2,645,053	423,921	9,887,335	(398,035)	(529,734)	20,791,680	32,820,220	883,397	33,703,617
Adoption effect of IFRS 9 and IAS 15, net of tax (Note 60)					(277,011)	(251,854)	(528,865)	(3,155)	(532,020)
Balance at January 1, 2018 (adjusted)	2,645,053	423,921	9,887,335	(398,035)	(806,745)	20,539,826	32,291,355	880,242	33,171,597
Total comprehensive income for the year									
Profit for the year						3,156,722	3,156,722	41,543	3,198,265
Other comprehensive income (loss), net of income tax:									
Gain on financial asset at fair value through other comprehensive income					179,793		179,793	1,305	181,098
Loss on financial instrument at fair value through profit or					(54,333)		(54,333)		(54,333)

Loss (overlay approach)							
Foreign currency translation adjustments			20,465	20,465	(482)	19,983	
Equity in other comprehensive income of associates			7,435	7,435		7,435	
Net change in unrealized fair value of cash flow hedges			(20,192)	(20,192)		(20,192)	
Other comprehensive income of separate account measurements of defined benefit plans			8,676	8,676		8,676	
Changes in own credit risk on financial liabilities designated at fair value through profit or loss			(92,687)	(92,687)	(411)	(93,098)	
			1,723	1,723		1,723	
Total other comprehensive loss			50,880	50,880	412	51,292	
Total comprehensive income (loss)	₩		50,880	3,156,722	3,207,602	41,955	3,249,557
Other changes in equity							
Dividends	₩			(687,589)	(687,589)	(687,589)	
Dividends to hybrid bonds				(40,357)	(40,357)	(40,357)	
Issuance of hybrid bonds		1,107,838			1,107,838	1,107,838	
Acquisition of treasury stock			(155,923)		(155,923)	(155,923)	
Change in other capital adjustments		8,153	1,063	(6,517)	2,699	2,699	
					3,608	3,608	

change in other
non-controlling
interests

	1,107,838	8,153	(154,860)		(734,463)	226,668	3,608	230,276	
reclassification of OCI retained earnings				2,645	(2,645)				
Balance at December 31, 2018	₩2,645,053	1,531,759	9,895,488	(552,895)	(753,220)	22,959,440	35,725,625	925,805	36,651,430

See accompanying notes to the consolidated financial statements.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Consolidated Statements of Cash Flows

For the years ended December 31, 2016, 2017 and 2018

<i>(In millions of won)</i>	Notes	2016	2017	2018
Cash flows from operating activities				
Profit before income taxes		₩ 3,170,472	3,797,608	4,466,610
Adjustments for:				
Interest income	38	(11,236,302)	(11,798,654)	(13,572,456)
Interest expense	39	4,030,936	3,955,701	4,992,367
Dividend income	40	(281,623)	(257,306)	(87,826)
Net fees and commission expense		166,216	169,640	176,932
Net insurance loss		2,779,710	2,571,094	2,080,509
Net loss on financial instruments at fair value through profit or loss	41			66,455
Net gain on financial instruments at fair value through profit or loss (overlay approach)	10			(74,944)
Net trading loss (gain)	42	48,363	(334,133)	
Net foreign currency translation loss (gain)		(248,844)	(87,384)	377,632
Net gain on financial instrument designated at fair value through profit or loss	43			(382,667)
Net loss on financial instruments designated at fair value through profit or loss	44	147,813	231,772	
Net gain on disposal of financial asset at fair value through other comprehensive income	16			(20,554)
Net gain on disposal of available-for-sale financial assets	17	(647,541)	(499,187)	
Net loss on disposal of securities at amortized cost	16			9
Provision for credit loss allowance	45			747,877
Provision for credit losses	46	1,107,633	815,249	
Impairment losses on other financial assets	46	88,030	198,299	
Employee costs		203,639	232,709	155,672
Depreciation and amortization	47	259,941	253,344	301,916
Other operating expense (income)		70,236	602,027	(278,274)
Equity method income, net	20	(9,995)	(20,393)	(17,488)
Other non-operating expense (income), net		598	(29,080)	3,147
		₩ (3,521,190)	(3,996,302)	(5,531,693)

See accompanying notes to the consolidated financial statements.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Consolidated Statements of Cash Flows (Continued)

For the years ended December 31, 2016, 2017 and 2018

<i>(In millions of won)</i>	Notes	2016	2017	2018
Changes in assets and liabilities:				
Cash and due from banks at amortized cost	₩			6,024,743
Due from banks		3,937,005	(3,347,818)	
Securities at fair value through profit or loss				(3,082,516)
Due from banks at fair value through profit or loss				(82,014)
Loans at fair value through profit or loss				(422,326)
Trading assets and liabilities		(4,343,206)	(1,706,990)	
Financial asset designated at fair value through profit or loss (IFRS 9)				723,037
Financial instruments designated at fair value through profit or loss (IAS 39)		(2,439)	(1,300,760)	
Derivative instruments		(340,831)	(488,706)	203,006
Loans at amortized cost				(27,547,413)
Loans		(11,351,121)	(19,232,732)	
Other assets		(4,627,748)	(250,806)	(5,177,725)
Deposits		16,771,470	15,632,957	16,699,467
Liabilities for defined benefit obligations		(261,550)	(178,054)	(145,639)
Provisions		(77,514)	(69,584)	14,542
Other liabilities		(2,333,634)	4,845,053	174,590
		(2,629,568)	(6,097,440)	(12,618,248)
Income taxes paid		(561,604)	(664,286)	(850,696)
Interest received		11,109,313	11,425,960	13,208,601
Interest paid		(4,080,122)	(3,710,093)	(5,058,596)
Dividends received		309,876	265,887	63,826
Net cash provided by operating activities	₩	3,797,177	1,021,334	(6,320,196)

See accompanying notes to the consolidated financial statements.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Consolidated Statements of Cash Flows (Continued)

For the years ended December 31, 2016, 2017 and 2018

<i>(In millions of won)</i>	Notes	2016	2017	2018
Cash flows from investing activities				
Decrease in financial instruments at fair value through profit or loss		₩		2,150,860
Increase in financial instruments at fair value through profit or loss				(3,290,960)
Proceeds from disposal of financial assets at fair value through other comprehensive income				27,074,948
Acquisition of financial assets at fair value through other comprehensive income				(27,037,290)
Proceeds from disposal of available-for-sale financial assets		29,242,921	29,638,281	
Acquisition of available-for-sale financial assets		(32,844,558)	(34,703,066)	
Proceeds from disposal of financial assets at amortized cost				2,093,506
Acquisition of financial assets at amortized cost				(5,836,342)
Proceeds from disposal of held-to-maturity financial assets		1,839,275	1,712,326	
Acquisition of held-to-maturity financial assets		(5,277,451)	(7,033,310)	
Proceeds from disposal of property and equipment	18,50	5,793	11,459	39,202
Acquisition of property and equipment	18	(252,084)	(155,186)	(142,933)
Proceeds from disposal of intangible assets	19,50	8,268	9,286	3,638
Acquisition of intangible assets	19	(88,876)	(111,257)	(157,160)
Proceeds from disposal of investments in associates		67,082	163,649	189,118
Acquisition of investments in associates		(145,119)	(380,213)	(227,914)
Proceeds from disposal of investment property	21,50	22,900	4,869	15,433
Acquisition of investment property	21	(176,204)	(2,125)	(115,333)
Proceeds from disposal of assets held for sale		2,213	10,466	4,498
Proceeds from settlement of hedging derivative financial instruments for available-for-sale financial assets		27,265	85,616	67,039
Payment for settlement of hedging derivative financial instruments for available-for-sale financial assets		(69,175)	(27,629)	(26,653)
Business combination, net of cash acquired (used)	57,58	(4,280)	83,631	(4,498)
Other, net		48,156	(10,435)	(311,744)
Net cash used in investing activities		₩ (7,593,874)	(10,703,638)	(5,512,585)

See accompanying notes to the consolidated financial statements.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Consolidated Statements of Cash Flows (Continued)

For the years ended December 31, 2016, 2017 and 2018

<i>(In millions of won)</i>	Notes	2016	2017	2018
Cash flows from financing activities				
Issuance of hybrid bonds		₩	224,466	1,107,838
Redemption of hybrid bonds		(240,000)	(300,000)	
Net increase (decrease) in borrowings		3,389,832	3,047,844	1,772,203
Proceeds from debt securities issued		15,916,866	20,006,957	26,487,712
Repayments of debt securities issued		(11,988,965)	(12,222,815)	(14,689,246)
Dividends paid		(669,103)	(706,565)	(714,705)
Proceeds from settlement of hedging derivative financial instruments for debt securities issued		15,414	65,220	10,675
Payment for settlement of hedging derivative financial instruments for debt securities issued		(1,486)	(6,509)	(16,832)
Acquisition of treasury stock				(151,993)
Redemption of preferred stock		(1,125,906)		
Increase (decrease) in non-controlling interests		(451,208)	215,357	347
Other, net		(824)	8,498	528
Net cash provided by financing activities		4,844,620	10,332,453	13,806,527
Effect of exchange rate fluctuations on cash and cash equivalents held		(22,638)	(46,035)	(30,640)
Increase (decrease) in cash and cash equivalents		1,025,285	604,114	1,943,106
Cash and cash equivalents at beginning of year	54	4,607,251	5,632,536	6,236,650
Cash and cash equivalents at end of year	54	₩ 5,632,536	6,236,650	8,179,756

See accompanying notes to the consolidated financial statements.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

1. Reporting entity

Shinhan Financial Group Co., Ltd., the controlling company, and its subsidiaries included in consolidation (collectively the Group) are summarized as follows:

(a) Controlling company

Shinhan Financial Group Co., Ltd. (the Shinhan Financial Group), a controlling company, was incorporated on September 1, 2001 for the main purposes of Shinhan Bank, Shinhan Securities Co., Ltd., Shinhan Capital Co., Ltd., and Shinhan BNP Asset Management Co., Ltd. with a stock transfer. The total capital stock amounted to ₩1,461,721 million. Also, Shinhan Financial Group's shares has been listed on the Korea Exchange since September 10, 2001 and Shinhan Financial Group's American Depositary Shares were listed on the New York Stock Exchange since September 16, 2003.

(b) Ownership of Shinhan Financial Group and its major consolidated subsidiaries as of December 31, 2017 and 2018 are as follows:

Investor	Investee	Location	Date of financial information	Ownership (%)	
				2017	2018
Shinhan Financial Group Co., Ltd.	Shinhan Bank	Korea	December 31	100.0	100.0
	Shinhan Card Co., Ltd.			100.0	100.0
	Shinhan Investment Corp.			100.0	100.0
	Shinhan Life Insurance Co., Ltd.			100.0	100.0
	Shinhan Capital Co., Ltd.			100.0	100.0
	Jeju Bank (*1)			68.9	71.9
	Shinhan Credit Information Co., Ltd.			100.0	100.0
	Shinhan Alternative Investment Management Inc.			100.0	100.0
	Shinhan BNP Paribas Asset Management Co., Ltd.			65.0	65.0
	SHC Management Co., Ltd.			100.0	100.0
	Shinhan DS (*2)			100.0	100.0

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	Shinhan Savings Bank		100.0	100.0
	Shinhan AITAS Co., Ltd.		99.8	99.8
	Shinhan REITs Management Co., Ltd.		100.0	100.0
Shinhan Bank	Shinhan Asia Limited	Hong Kong	99.9	99.9
	Shinhan Bank America	USA	100.0	100.0
	Shinhan Bank Europe GmbH	Germany	100.0	100.0
	Shinhan Bank Cambodia (*3)	Cambodia	97.5	97.5
	Shinhan Bank Kazakhstan Limited	Kazakhstan	100.0	100.0
	Shinhan Bank Canada	Canada	100.0	100.0

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

1. Reporting entity (continued)

Investor	Investee	Location	Date of financial information	Ownership (%)	
				2017	2018
	Shinhan Bank (China) Limited	China		100.0	100.0
	Shinhan Bank Japan	Japan		100.0	100.0
	Shinhan Bank Vietnam Ltd.	Vietnam		100.0	100.0
	Banco Shinhan de Mexico	Mexico		100.0	100.0
	PT Bank Shinhan Indonesia	Indonesia		99.0	99.0
Shinhan Card Co., Ltd.	LLP MFO Shinhan Finance	Kazakhstan		100.0	100.0
	PT. Shinhan Indo Finance	Indonesia		50.0	50.0
	Shinhan Microfinance Co., Ltd.	Myanmar		100.0	100.0
Shinhan Investment Corp.	Shinhan Investment Corp. USA Inc.	USA		100.0	100.0
	Shinhan Investment Corp. Asia Ltd.	Hong Kong		100.0	100.0
Shinhan Investment Corp.	SHINHAN SECURITIES VIETNAM CO., LTD.	Vietnam	December 31	100.0	100.0
	PT. Shinhan Sekuritas Indonesia	Indonesia		99.0	99.0
PT. Shinhan Sekuritas Indonesia	PT Shinhan Asset Management Indonesia				75.0
Shinhan BNP Paribas Asset Management Co., Ltd.	Shinhan BNP Paribas Asset Management (Hong Kong) Limited	Hong Kong		100.0	100.0
Shinhan DS	SHINHAN DS VIETNAM CO., LTD.	Vietnam			100.0

(*1) The Group participated in the capital increase of Jeju Bank by acquisition of 7,854,600 shares. (₩5,000 per share)

(*2) Shinhan Data System changed its name into Shinhan DS for the year ended December 31, 2018 and the Group participated in the capital increase of ₩3 billion in October 2018.

(*3) Shinhan Khmer Bank PLC changed its name into Shinhan Bank Cambodia for the period ended December 31, 2018.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

1. Reporting entity (continued)

(c) Consolidated structured entities
Consolidated structured entities are as follows:

Category	Consolidated structured entities	Description
Trust	18 trusts managed by Shinhan Bank including development trust	A trust is consolidated when the Group as a trustee is exposed to variable returns, for example, if principle or interest amounts of the entrusted properties falls below guaranteed amount, the Group should compensate it; and the Group has the ability to affect those returns.
Asset-Backed Securitization	MPC Yulchon Green I and 130 others	An entity for asset backed securitization is consolidated when the Group has the ability to dispose assets or change the conditions of the assets, is exposed to variable returns and has the ability to affect the variable returns providing credit enhancement and purchases of subordinated securities.
Structured Financing	SHPE Holdings One Co., Ltd. and 2 others	An entity established for structured financing relating to real estate, shipping, or mergers and acquisitions is consolidated, when the Group has granted credit to the entity, has sole decision-making authority of these entities due to the entities default, and is exposed to, or has rights to related variable returns.
Investment Fund	KoFC Shinhan Frontier Champ 2010-4 PEF and 73 others	An investment fund is consolidated, when the Group manages or invests assets of the investment funds on behalf of other investors, or has the ability to dismiss the manager of the investment funds, and is exposed to, or has rights to, the variable returns.

(*) The Group provides ABPC purchase agreements of ₩1,397,717 million for the purpose of credit enhancement of structured companies.

2. Basis of preparation

(a) Statement of compliance

The consolidated financial statements have been prepared in accordance with International Financial Reporting Standards (IFRS). IFRS are the standards and related interpretations issued by the International Accounting Standards Board (IASB).

The consolidated financial statements were authorized for issue by the Board of Directors on February 12, 2019, which will be submitted for approval to the stockholder s meeting to be held on March 27, 2019.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

2. Basis of preparation (continued)

(b) Basis of measurement

The consolidated financial statements have been prepared on the historical cost basis, except for the following material items in the statement of financial position:

derivative financial instruments are measured at fair value

financial instruments at fair value through profit or loss are measured at fair value

available-for-sale financial assets are measured at fair value

other comprehensive income at fair values are measured at fair value

financial instruments through profit or loss are measured at fair value

liabilities for cash-settled share-based payment arrangements are measured at fair value

financial liabilities designated as hedged items in a fair value hedge accounting of which changes in fair value attributable to the hedged risk are recognized in profit or loss

liabilities for defined benefit plans that are recognized at the net of the total present value of defined benefit obligations less the fair value of plan assets

(c) Functional and presentation currency

These consolidated financial statements are presented in Korean won, which is the Controlling Company's functional currency and the currency of the primary economic environment in which the Group operates.

(d) Use of estimates and judgements

The preparation of the consolidated financial statements in conformity with IFRS requires management to make judgments, estimates and assumptions that affect the application of accounting policies and the reported amounts of assets, liabilities, income and expenses. Actual results may differ from these estimates.

Estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognized in the period in which the estimates are revised and in any future periods affected.

Information about critical judgements in applying accounting policies that have a significant effect on the amounts recognized in the consolidated financial statements and information about assumptions and estimation uncertainties that have a significant risk of resulting in a material adjustment within the next financial year are described in Note 5.

Management's assessment of the application of the Group's accounting policies and their estimates used in the consolidated financial statements is based on the same accounting policies and assumptions used in the consolidated financial statements for the year ended December 31, 2017.

Credit loss allowance

The Group recognizes credit loss allowance for expected credit losses on debt instruments, loans and receivables that are measured at amortized cost, loan commitments and financial guarantee contracts in accordance with IFRS 9

Financial Instruments. The allowance is determined by techniques, assumptions and input variables used by the Group to measure expected future cash flows of individual financial

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

2. Basis of preparation (continued)

instruments and to measure expected credit losses in a collective manner. The details of techniques, assumptions and input variables used to measure the credit loss allowance for expected credit losses as of December 31, 2018 are described in Note 4.

(e) Change in accounting policy

The Group has adopted the same accounting policies for the year ended December 31, 2018, except for the application of the first amendment standard, effective from January 1, 2018, as explained below.

i) IFRS 15, Revenue from Contracts with Customers

Effective January 1, 2018 the Group has applied IFRS 15, *Revenue from Contracts with Customers*, which replaces existing revenue recognition guidance, including IAS 18, *Revenue*, IAS 11, *Construction Contracts*, SIC-31, *Revenue-Barter Transactions Involving Advertising Services*, IFRIC 13, *Customer Loyalty Programmes*, IFRIC 15, *Agreement for the Construction of Real Estate*, and IFRIC 18, *Transfers of Assets from Customers*.

IAS 18 and other standards outlined revenue recognition for different types of transactions such as sales of goods and services, interest income, loyalty programs, dividend income and construction contracts; however, according to IFRS 15, all types of contracts recognize revenue through five-step revenue recognition model (Identifying the contract g Identifying performance obligations g Determining the transaction price g Allocating the transaction price to performance obligations g Recognizing the revenue by satisfying performance obligations).

Effects on equity as a result of initial application of IFRS 15 are included in Note 60.

ii) IFRS 2, Share-based Payment

The Standard has been amended to clarify that measurement of cash-settled share-based payment transactions shall reflect both vesting conditions and non-vesting conditions with the same approach as equity-settled share-based payment transactions, and to clarify classification of share-based payment transactions with a net settlement feature for withholding tax obligations.

iii) IAS 40, Investment property

Effective January 1, 2018 and after, the Group has adopted the amendments to IAS 40 Investment Property. The amendment clarifies that it meets the definition of an investment property and, if there is evidence of change in use, it is possible to substitute an investment property. We have also clarified that real estate under construction is included

in the scope. The effect of the amendment on the consolidated financial statements is not significant.

iv) IFRS 9, Financial Instruments

The Group has applied IFRS 9 *Financial Instruments*, which was published on September 25, 2015, from the year starting on January 1, 2018. IFRS 9 replaced IAS 39, *Financial Instruments: Recognition and Measurement*.

The main characteristics of IFRS 9 are: classification and measurement of financial instruments based on characteristics of contractual cash flows and business model, impairment model based on expected credit

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

2. Basis of preparation (continued)

losses, the expansion of the types of qualifying hedging instruments and hedged items, and changes in hedge effectiveness tests, etc.

In principle, IFRS 9 should be applied retrospectively. However, there are exemptions for restating the comparative information with respect to classification, measurement of financial instruments, and impairment. In addition, for hedge accounting, the new standard will be applied prospectively except for certain cases such as accounting for the time value of options. As permitted by the transition requirements of IFRS 9, comparative periods have not been restated. The effects of the first application of IFRS 9 on equity items, the reconciliation of the carrying amount of financial assets and financial liabilities, and the adjustment of loss provisions under IAS 39 are included in note 60.

3. Significant accounting policies

Except for the new standards and the amendment to the following standard, which are applied from January 1, 2018, the accounting policies applied by the Group in these consolidated financial statements are the same as those applied by the Group in its consolidated financial statements as of and for the year ended December 31, 2018 and have mentioned on the note 2.

(a) Operating segments

An operating segment is a component of the Group that engages in business activities from which it may earn revenues and incur expenses, including revenues and expenses that relate to transactions with any of the Group's other components, whose operating results are reviewed regularly by the chief operating decision maker to make decisions about resources allocated to each segment and assess its performance, and for which discrete financial information is available.

The segment reporting to a chief executive officer includes items directly attributable to a segment as well as those that can be allocated on a reasonable basis. Unallocated items comprise mainly general expenses and income tax assets and liabilities. The Group considers the Chief Executive Officer (CEO) of the Bank as the chief operating decision maker.

It is CEO's responsible for evaluating the resources to be distributed to the business and the performance of the business, and makes strategic decisions.

(b) Basis of consolidation

i) Subsidiaries

Subsidiaries are investees controlled by the Group. The Group controls an investee when it is exposed to, or has rights to, variable returns from its involvement with the investee and has the ability to affect those returns through its power over the investee. The financial statements of subsidiaries are included in the consolidated financial statements from the date that control commences until the date that control ceases.

If a member of the Group uses accounting policies other than those adopted in the consolidated financial statements for the same transactions and events in similar circumstances, appropriate adjustments are made to its financial statements in preparing the consolidated financial statements.

ii) Structured entity

The Group establishes or invests in various structured entities. A structured entity is an entity designed so that its activities are not governed by way of voting rights. When assessing control of a structured entity, the

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)

Group considers factors such as the purpose and the design of the investee; its practical ability to direct the relevant activities of the investee; the nature of its relationship with the investee; and the size of its exposure to the variability of returns of the investee. The Group does not recognize any non-controlling interests as equity in relation to structured entities in the consolidated statements of financial position since the non-controlling interests in these entities are recognized as liabilities of the Group.

iii) Intra-group transactions eliminated on consolidation

Intra-group balances, transactions, and any unrealized income and expenses arising from intra-group transactions, are eliminated in preparing the consolidated financial statements. Intra-group losses are recognized as expense if intra-group losses indicate an impairment that requires recognition in the consolidated financial statements.

iv) Non-controlling interests

Non-controlling interests in a subsidiary are accounted for separately from the parent's ownership interests in a subsidiary. Each component of net profit or loss and other comprehensive income is attributed to the owners of the parent and non-controlling interest holders, even when the allocation reduces the non-controlling interests balance below zero.

(c) Business combinations

i) Business combinations

A business combination is accounted for by applying the acquisition method, unless it is a combination involving entities or businesses under common control.

Each identifiable asset and liability is measured at its acquisition-date fair value except for below:

Leases and insurance contracts are required to be classified on the basis of the contractual terms and other factors

Only those contingent liabilities assumed in a business combination that are a present obligation and can be measured reliably are recognized

Deferred tax assets or liabilities are recognized and measured in accordance with IAS 12, Income Taxes

Employee benefit arrangements are recognized and measured in accordance with IAS 19, Employee Benefits

Indemnification assets are recognized and measured on the same basis as the indemnified liability or asset

Reacquired rights are measured in accordance with special provisions

Liabilities or equity instruments related to share-based payment transactions are measured in accordance with the method in IFRS 2, Share-based Payment

Non-current assets held for sale are measured at fair value less costs to sell in accordance with IFRS 5, Non-current Assets Held for Sale and Discontinued Operations

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)

As of the acquisition date, non-controlling interests in the acquirer are measured as the non-controlling interests proportionate share of the acquirer's identifiable net assets.

The consideration transferred in a business combination is measured at fair value, which is calculated as the sum of the acquisition-date fair values of the assets transferred by the acquirer, the liabilities incurred by the acquirer to former owners of the acquirer and the equity interests issued by the acquirer. However, any portion of the acquirer's share-based payment awards exchanged for awards held by the acquirer's employee that is included in consideration transferred in the business combination shall be measured in accordance with the method described above rather than at fair value.

Acquisition-related costs are costs the acquirer incurs to effect a business combination. Those costs include finder's fees; advisory, legal, accounting, valuation and other professional or consulting fees; general administrative costs, including the costs of maintaining an internal acquisitions department; and costs of registering and issuing debt and equity securities. Acquisition-related costs, other than those associated with the issue of debt or equity securities, which are recognized in accordance with IAS 32 and IFRS 9, are expensed in the periods in which the costs are incurred and the services are received.

ii) Goodwill

The Group measures goodwill at the acquisition date as:

the fair value of the consideration transferred; plus

the recognized amount of any non-controlling interests in the acquiree; plus

if the business combination is achieved in stages, the fair value of the pre-existing equity interest in the acquiree; less

the net recognized amount (generally fair value) of the identifiable assets acquired and liabilities assumed.

When the excess is negative, a bargain purchase gain is recognized immediately in profit or loss.

When the Group additionally acquires non-controlling interest, the Group does not recognize goodwill since the transaction is regarded as equity transaction.

(d) Investments in associates

An associate is an entity in which the Group has significant influence, but not control, over the entity's financial and operating policies. Significant influence is presumed to exist when the Group holds between 20 and 50 percent of the voting power of another entity.

A joint venture is a joint arrangement whereby the parties that have joint control of the arrangement have rights to the net assets of the arrangement. Joint control is the contractually agreed sharing of control of an arrangement, which exists only when decisions about the relevant activities require the unanimous consent of the parties sharing control.

The investment in an associate and a joint venture is initially recognized at cost, and the carrying amount is increased or decreased to recognize the Group's share of the profit or loss and changes in equity of the associate and the joint venture after the date of acquisition. Intra-group balances and transactions, and any unrealized income and expenses arising from intra-group transactions, are eliminated in preparing the consolidated financial statements. Intra-group losses are recognized as expense if intra-group losses indicate an impairment that requires recognition in the consolidated financial statements.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)

If an associate or a joint venture uses accounting policies different from those of the Group for like transactions and events in similar circumstances, appropriate adjustments are made to its financial statements in applying the equity method.

When the Group's share of losses exceeds its interest in an equity accounted investee, the carrying amount of that interest, including any long-term investments, is reduced to nil and the recognition of further losses is discontinued except to the extent that the Group has an obligation or has to make payments on behalf of the investee for further losses.

(e) Cash and cash equivalents

Cash and cash equivalents comprise cash balances and call deposits with original maturities of three months or less from the acquisition date that are subject to an insignificant risk of changes in their fair value, and are used by the Group in the management of its short-term commitments. Equity instruments are excluded from cash equivalents unless they are, in substance, cash equivalents, for example in the case of preferred shares acquired within a short period of their maturity and with a specified redemption date. However, the Group's account overdraft is included in borrowings.

(f) Non-derivative financial assets policy applicable from January 1, 2018

Financial assets are recognized when the Group becomes a party to the contractual provisions of the instrument. In addition, a regular way purchase or sale (a purchase or sale of a financial asset under a contract whose terms require delivery of the asset within the time frame established generally by regulation or convention in the market concerned) is recognized on the trade date.

A financial asset is measured initially at its fair value plus, for an item not at Fair Value Through Profit or Loss (FVTPL), transaction costs that are directly attributable to its acquisition of the financial asset. Transaction costs on the financial assets at FVTPL that are directly attributable to the acquisition are recognized in profit or loss as incurred.

i) Financial assets designated at FVTPL

Financial assets can be irrevocably designated as measured at FVTPL despite of classification standards stated below, if doing so eliminates or significantly reduces an accounting mismatch that would otherwise arise from measuring assets or liabilities or recognizing the gains or losses on them on different bases.

ii) Equity instruments

For the equity instruments that are not held for trading, at initial recognition, the Group may make an irrevocable election to present subsequent changes in fair value in other comprehensive income. Equity instruments that are not classified as financial assets at Fair Value through Other Comprehensive Income (FVOCI) are classified as financial assets at FVTPL.

The Group subsequently measures all equity investments at fair value. Valuation gains or losses of the equity instruments that are classified as financial assets at FVOCI previously recognized as other comprehensive income is not reclassified as profit or loss on derecognition. The Group recognizes dividends in profit or loss when the Group's right to receive payments of the dividend is established.

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Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)

Valuation gains or losses due to changes in fair value of the financial assets at FVTPL are recognized as gains or losses on financial assets at FVTPL. Impairment loss (reversal) on equity instruments at FVOCI is not recognized separately.

iii) Debt instruments

Subsequent measurement of debt instruments depends on the Group's business model in which the asset is managed and the contractual cash flow characteristics of the asset. Debt instruments are classified as financial assets at amortized cost, at FVOCI, or at FVTPL. Debt instruments are reclassified only when the Group's business model changes.

a) Financial assets at amortized cost

Assets that are held within a business model whose objective is to hold assets to collect contractual cash flows where those cash flows represent solely payments of principal and interest are measured at amortized cost. Impairment losses, and gains or losses on derecognition of the financial assets at amortized cost are recognized in profit or loss. Interest income on the effective interest method is included in the Interest income in the consolidated statement of comprehensive income.

b) Financial assets at FVOCI

Assets that are held within a business model whose objective is achieved by both collecting contractual cash flows and selling financial assets, where the assets' cash flows represent solely payments of principal and interest, are measured at FVOCI. Other than impairment losses, interest income amortized using effective interest method and foreign exchange differences, gains or losses of the financial assets at FVOCI are recognized as other comprehensive income in equity. On derecognition, gains or losses accumulated in other comprehensive income are reclassified to profit or loss. The interest income on the effective interest method is included in the Interest income in the consolidated statement of comprehensive income. Foreign exchange differences and impairment losses are included in the Net foreign currency transaction gain and Provision for credit loss allowance in the consolidated statement of comprehensive income, respectively.

c) Financial assets at FVTPL

Debt securities other than financial assets at amortized costs or FVOCI are classified at FVTPL. Unless hedge accounting is applied, gains or losses from financial assets at FVTPL are recognized as profit or loss and are included in Net gain on financial assets at fair value through profit or loss in the consolidated statement of comprehensive income.

iv) Embedded derivatives

Financial assets with embedded derivatives are classified regarding the entire hybrid contract, and the embedded derivatives are not separately recognized. The entire hybrid contract is considered when it is determined whether the contractual cash flows represent solely payments of principal and interest.

v) Derecognition of financial assets

The Group derecognizes a financial asset when the contractual rights to the cash flows from the asset expire, or it transfers the rights to receive the contractual cash flows on the financial asset in a transaction in which

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

3. Significant accounting policies (continued)

substantially all the risks and rewards of ownership of the financial asset are transferred. Any interest in transferred financial assets that is created or retained by the Group is recognized as a separate asset or liability.

If the Group retains substantially all the risks and rewards of ownership of the transferred financial assets, the Group continues to recognize the transferred financial assets and recognizes financial liabilities for the consideration received.

vi) Offsetting

Financial assets and financial liabilities are offset and the net amount is presented in the consolidated statement of financial position only when the Group currently has a legally enforceable right to set off the recognized amounts, and intends either to settle on a net basis or to realize the asset and settle the liability simultaneously.

(g) Non-derivative financial assets policy applicable before January 1, 2018

The Group recognizes and measures non-derivative financial assets by the following four categories: financial assets at fair value through profit or loss, held-to-maturity investments, loans and receivables and available-for-sale financial assets. The group recognizes financial assets in the separate statement of financial position when the group becomes a party to the contractual provisions of the instrument.

Upon initial recognition, non-derivative financial assets are measured at their fair value plus, in the case of a financial asset not at fair value through profit or loss, transaction costs that are directly attributable to the asset's acquisition or issuance.

i) Financial assets at fair value through profit or loss

A financial asset is classified as at fair value through profit or loss if it is held for trading or is designated at fair value through profit or loss. Upon initial recognition, transaction costs are recognized in profit or loss when incurred. Financial assets at fair value through profit or loss are measured at fair value, and changes therein are recognized in profit or loss.

A financial asset other than a financial asset held for trading may be designated as at FVTPL upon initial recognition if:

such designation eliminates or significantly reduces a recognition or measurement inconsistency that would otherwise arise; or

the financial asset forms part of a group of financial assets or financial liabilities or both, which is managed and its performance is evaluated on a fair value basis, in accordance with the Group's documented risk management or investment strategy, and information about the grouping is provided internally on that basis; or

it forms part of a contract containing one or more embedded derivatives that would be required to be separated from the host contract.

ii) Held-to-maturity financial assets(HTM)

A non-derivative financial asset with a fixed or determinable payment and fixed maturity, for which the Group has the positive intention and ability to hold to maturity, are classified as held-to-maturity

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)

investments. Subsequent to initial recognition, held-to-maturity investments are measured at amortized cost using the effective interest method.

iii) Loans and receivables

Loans and receivables are financial assets with fixed or determinable payments that are not quoted in an active market. Subsequent to initial recognition, loans and receivables are measured at amortized cost using the effective interest method.

iv) Available-for-sale financial assets(AFS)

Available-for-sale financial assets are those non-derivative financial assets that are designated as available-for-sale or are not classified as financial assets at fair value through profit or loss, held-to-maturity investments or loans and receivables. Subsequent to initial recognition, they are measured at fair value, which changes in fair value, net of any tax effect, recorded in other comprehensive income in equity. Investments in equity instruments that do not have a quoted market price in an active market and whose fair value cannot be reliably measured and derivatives that are linked to and must be settled by delivery of such unquoted equity instruments are measured at cost.

v) De-recognition of financial assets

The Group derecognizes a financial asset when the contractual rights to the cash flows from the asset expire, or it transfers the rights to receive the contractual cash flows on the financial asset in a transaction in which substantially all the risks and rewards of ownership of the financial asset are transferred. Any interest in transferred financial assets that is created or retained by the Group is recognized as a separate asset or liability.

If the Group retains substantially all the risks and rewards of ownership of the transferred financial assets, the Group continues to recognize the transferred financial assets and recognizes financial liabilities for the consideration received.

vi) Offsetting between financial assets and financial liabilities

Financial assets and financial liabilities are offset and the net amount is presented in the consolidated statement of financial position only when the Group currently has a legally enforceable right to offset the recognized amounts, and there is the intention to settle on a net basis or to realize the asset and settle the liability simultaneously.

(h) Derivative financial instruments policy applicable from January 1, 2018

Derivatives are initially recognized at fair value. Subsequent to initial recognition, derivatives are measured at fair value, and changes therein are accounted for as described below.

i) Hedge accounting

The Group holds forward exchange contracts, interest rate swaps, currency swaps and other derivative contracts to manage interest rate risk and foreign exchange risk. The Group designated derivatives as

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

3. Significant accounting policies (continued)

hedging instruments to hedge the risk of changes in the fair value of assets, liabilities or firm commitments (a fair value hedge) and foreign currency risk of highly probable forecasted transactions or firm commitments (a cash flow hedge).

On initial designation of the hedge, the Group formally documents the relationship between the hedging instrument(s) and hedged item(s), including the risk management objectives and strategy in undertaking the hedge transaction, together with the methods that will be used to assess the effectiveness of the hedging relationship.

Fair value hedge

Changes in the fair value of a derivative hedging instrument designated as a fair value hedge are recognized in profit or loss. The gain or loss from remeasuring the hedging instrument at fair value for a derivative hedging instrument and the gain or loss on the hedged item attributable to the hedged risk are recognized in profit or loss in the same line item of the separate statement of comprehensive income.

The Group discontinues fair value hedge accounting if the hedging instrument expires or is sold, terminated or exercised, or if the hedge no longer meets the criteria. Any adjustment arising from G/L on the hedged item attributable to the hedged risk is amortized to profit or loss from the date the hedge accounting is discontinued.

Cash flow hedge

When a derivative is designated to hedge the variability in cash flows attributable to a particular risk associated with a recognized asset or liability or a highly probable forecasted transaction that could affect profit or loss, the effective portion of changes in the fair value of the derivative is recognized in other comprehensive income, net of tax, and presented in the hedging reserve in equity. Any ineffective portion of changes in the fair value of the derivative is recognized immediately in profit or loss.

If the hedging instrument no longer meets the criteria for hedge accounting, expires or is sold, terminated, exercised, or the designation is revoked, then hedge accounting is discontinued prospectively. The cumulative gain or loss on the hedging instrument that has been recognized in other comprehensive income is reclassified to profit or loss in the periods during which the forecasted transaction occurs. If the forecasted transaction is no longer expected to occur, then the balance in other comprehensive income is recognized immediately in profit or loss.

Net investment hedge

The portion of the change in fair value of a financial instrument designated as a hedging instrument that meets the requirements for hedge accounting for a net investment in a foreign operation is recognized in other comprehensive

income and the ineffective portion of the hedge is recognized in profit or loss. Recognize. The portion recognized as other comprehensive income that is effective as a hedge is recognized in the statement of comprehensive income as a result of reclassification adjustments in accordance with IAS 21, Effect of Changes in Foreign Exchange Rates at the time of disposing of its overseas operations or disposing of a portion of its overseas operations to profit or loss.

Other derivative financial instruments

Changes in the fair value of other derivative financial instrument not designated as a hedging instrument are recognized immediately in profit or loss.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)

Unobservable valuation differences at initial recognition

Any difference between the fair value of over the counter derivatives at initial recognition and the amount that would be determined at that date using a valuation technique in a situation in which the valuation is dependent on unobservable parameters is not recognized in profit or loss but is recognized on a straight-line basis over the life of the instrument or immediately when the fair value becomes observable.

(i) Derivative financial instruments policy applicable before January 1, 2018

Derivatives are initially recognized at fair value. Subsequent to initial recognition, derivatives are measured at fair value, and changes therein are accounted for as described below.

i) Hedge accounting

The Group holds forward exchange contracts, interest rate swaps, currency swaps and other derivative contracts to manage interest rate risk and foreign exchange risk. The Group designated derivatives as hedging instruments to hedge the risk of changes in the fair value of assets, liabilities or firm commitments (a fair value hedge) and foreign currency risk of highly probable forecasted transactions or firm commitments (a cash flow hedge).

On initial designation of the hedge, the Group formally documents the relationship between the hedging instrument(s) and hedged item(s), including the risk management objectives and strategy in undertaking the hedge transaction, together with the methods that will be used to assess the effectiveness of the hedging relationship.

Fair value hedge Changes in the fair value of a derivative hedging instrument designated as a fair value hedge are recognized in profit or loss. The gain or loss from remeasuring the hedging instrument at fair value for a derivative hedging instrument and the gain or loss on the hedged item attributable to the hedged risk are recognized in profit or loss in the same line item of the consolidated statement of comprehensive income. The Group discontinues fair value hedge accounting if the hedging instrument expires or is sold, terminated or exercised, or if the hedge no longer meets the criteria for hedge accounting. Any adjustment arising from gain or loss on the hedged item attributable to the hedged risk is amortized to profit or loss from the date the hedge accounting is discontinued.

Cash flow hedge When a derivative is designated to hedge the variability in cash flows attributable to a particular risk associated with a recognized asset or liability or a highly probable forecasted transaction that could affect profit or loss, the effective portion of changes in the fair value of the derivative is recognized in other comprehensive income, net of tax, and presented in the hedging reserve in equity. Any ineffective portion of changes in the fair value of the derivative is recognized immediately in profit or loss. If the hedging instrument no longer meets the criteria for hedge accounting, expires or is sold, terminated, exercised, or the designation is revoked, then hedge accounting is discontinued prospectively. The cumulative gain or loss on the hedging instrument that has been recognized in other comprehensive income is reclassified to profit or loss in the periods during which the forecasted transaction occurs. If the forecasted transaction is no longer expected to occur, then the balance in other comprehensive income is recognized immediately in profit or loss.

Hedge of net investment Foreign currency differences arising on the retranslation of a financial liability designated as a hedge of a net investment in a foreign operation are recognized in other comprehensive income to the extent that the hedge is effective. To the extent that the hedge is

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(In millions of won)

3. Significant accounting policies (continued)

ineffective, such differences are recognized in profit or loss. When the hedged part of a net investment is disposed of, the relevant amount in the accumulated other comprehensive income is transferred to profit or loss as part of the profit or loss on disposal in accordance with IAS 21, The Effects of Changes in Foreign Exchange Rates .

ii) Separable embedded derivatives

Embedded derivatives are separated from the host contract and accounted for separately only if the following criteria has been met: (a) the economic characteristics and risks of the embedded derivative are not closely related to those of the host contract; (b) a separate instrument with the same terms as the embedded derivative would meet the definition of a derivative; and (c) the hybrid instrument is not measured at fair value with changes in fair value recognized in profit or loss. Changes in the fair value of separable embedded derivatives are recognized immediately in profit or loss.

iii) Other derivative financial instruments

Changes in the fair value of other derivative financial instrument not designated as a hedging instrument are recognized immediately in profit or loss.

iv) Unobservable valuation differences at initial recognition

Any difference between the fair value of over the counter derivatives at initial recognition and the amount that would be determined at that date using a valuation technique in a situation in which the valuation is dependent on unobservable parameters is not recognized in profit or loss but is recognized on a straight-line basis over the life of the instrument or immediately when the fair value becomes observable.

(j) Impairment: Financial assets and contract assets policy applicable from January 1, 2018

The Group recognize provision for credit loss allowance for debt instruments measured at amortized cost and fair value through other comprehensive income, and lease receivable, loan commitments and financial guarantee contracts using the expected credit loss impairment model. Financial assets migrate through the following three stages based on the change in credit risk since initial recognition and loss allowances for the financial assets are measured at the 12-month expected credit losses (ECL) or the lifetime ECL, depending on the stage.

Category**Provision for credit loss allowance**

STAGE 1	When credit risk has not increased significantly since the initial recognition	12-months ECL: the ECL associated with the probability of default events occurring within the next 12 months
STAGE 2	When credit risk has increased significantly since the initial recognition	Lifetime ECL: a lifetime ECL associated with the probability of default events occurring over the remaining lifetime
STAGE 3	When assets are impaired	Same as above

The Group, meanwhile, only recognizes the cumulative changes in lifetime expected credit losses since the initial recognition as a loss allowance for purchased or originated credit-impaired financial assets. The total period refers to the expected life span of the financial instrument up to the contract expiration date.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

3. Significant accounting policies (continued)

Reflection of forward-looking information

The Group reflects forward-looking information presented by internal experts based on a variety of information when measuring expected credit losses. For the purpose of estimating these forward-looking information, the Group utilizes the economic outlook published by domestic and overseas research institutes or government and public agencies.

The Group reflects future macroeconomic conditions anticipated from a neutral standpoint that is free from bias in measuring expected credit losses. Expected credit losses in this respect reflect conditions that are most likely to occur and are based on the same assumptions that the Group used in its business plan and management strategy.

Measurement of amortization cost regarding the expected credit loss of financial assets

The expected credit loss of an amortized financial asset is measured as the difference between the present value of the cash flows expected to be received and the cash flow expected to be received. For this purpose, we calculate expected cash flows for individually significant financial assets.

For non-individual significant financial assets, the financial assets collectively include expected credit losses as part of a set of financial assets with similar credit risk characteristics.

Expected credit losses are deducted using the allowance for doubtful accounts and are amortized as if the financial assets were not recoverable. The allowance of bad debts is increased when the loan receivables are subsequently recovered and the changes in the credit loss allowance are recognized in profit or loss.

Measurement of estimated credit loss of financial assets at FVOCI

The calculation of expected credit losses is the same as for financial assets measured at amortized cost, but changes in credit loss allowance are recognized in other comprehensive income. In the case of disposal and redemption of other comprehensive income fair value, the credit loss allowance is reclassified from other comprehensive income to profit or loss and recognized in profit or loss.

(k) Impairment: Financial assets and contract assets policy applicable before January 1, 2018

A financial asset not carried at fair value through profit or loss is assessed at each reporting date to determine whether there is objective evidence that it is impaired. A financial asset is impaired if objective evidence indicates that a loss event has occurred after the initial recognition of the asset, and that the loss event had a negative effect on the estimated future cash flows of that asset that can be estimated reliably. However, losses expected as a result of future

events, regardless of likelihood, are not recognized.

In addition, for an investment in an equity security, a significant or prolonged decline in its fair value below its cost is objective evidence of impairment.

If financial assets have objective evidence that they are impaired, impairment losses should be measured and recognized.

Objective evidence that a financial asset or group of assets is impaired includes observable data that comes to the attention of the holder of the asset about the following loss events:

significant financial difficulty of the issuer or obligor

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

3. Significant accounting policies (continued)

a breach of contract, such as a default or delinquency in interest or principal payments;

the lender, for economic or legal reasons relating to the borrower's financial difficulty, granting to the borrower a concession that the lender would not otherwise consider

it becoming probable that the borrower will enter bankruptcy or other financial reorganization

the disappearance of an active market for that financial asset because of financial difficulties

observable data indicating that there is a measurable decrease in the estimated future cash flows from a group of financial assets since the initial recognition of those assets, although the decrease cannot yet be identified with the individual financial assets in the group.

i) Loans and receivables

The Group first assesses whether objective evidence of impairment exists individually for loans and receivables that are individually significant, and individually or collectively for financial assets that are not individually significant. If the Group determines that no objective evidence of impairment exists for an individually assessed financial asset, whether significant or not, it includes the asset in a group of financial assets with similar credit risk characteristics and collectively assesses them for impairment. Assets that are individually assessed for impairment and for which an impairment loss is or continues to be recognized are not included in a collective assessment of impairment.

If there is objective evidence that an impairment loss on loans and receivables has been incurred, the amount of the loss is measured as the difference between the asset's carrying amount and the present value of estimated future cash flows (excluding future credit losses that have not been incurred) discounted at the financial asset's original effective interest rate (i.e., the effective interest rate computed at initial recognition).

If the interest rate of a loan or receivable is a floating rate, the discount rate used to evaluate impairment loss is the current effective interest rate defined in the loan agreement. The present value of estimated future cash flows of secured financial assets is calculated by including cash flows from collateral after deducting costs to acquire and sell the collateral.

In assessing collective impairment, the Group rates and classifies financial assets, based on credit risk assessment or credit rating assessment process that takes into account asset type, industry, regional location, collateral type,

delinquency and other relative factors.

Future cash flow of financial assets applicable to collective impairment assessment is estimated by using statistical modelling of historical trends of the probability of default, timing of recoveries and the amount of loss incurred, adjusted for management's judgment as to whether current economic and credit conditions are such that the impairment losses are likely to be greater or less than suggested by historical modelling. In adjusting the future cash flow by historical modelling, the result has to be in line with changes and trends of observable data. Methodologies and assumptions used to estimate future cash flow are evaluated on a regular basis in order to reduce any discrepancy between impairment loss estimation and actual loss.

Impairment losses are recognized in profit or loss and reflected in an allowance account against loans and receivables. When a subsequent event causes the amount of impairment loss to decrease, and the decrease can be related objectively to an event occurring after the impairment was recognized, the decrease in impairment loss is reversed through profit or loss of the year.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)*ii) Available-for-sale financial assets*

When a decline in the fair value of an available-for-sale financial asset has been recognized in other comprehensive income and there is objective evidence that the asset is impaired, the cumulative loss that had been recognized in other comprehensive income is reclassified from equity to profit or loss as a reclassification adjustment even though the financial asset has not been derecognized. Impairment losses recognized in profit or loss for an investment in an equity instrument classified as available-for-sale are not reversed through profit or loss. If, in a subsequent period, the fair value of a debt instrument classified as available-for-sale increases and the increase can be objectively related to an event occurring after the impairment loss is recognized in profit or loss, the impairment loss is reversed, with the amount of the reversal recognized in profit or loss.

iii) Held-to-maturity financial assets

An impairment loss in respect of held-to-maturity financial assets measured at amortized cost is calculated as the difference between its carrying amount and the present value of the estimated future cash flows discounted at the asset's original effective interest rate and is recognized in profit or loss. Interest on the impaired asset continues to be recognized through the unwinding of the discount. When a subsequent event causes the amount of impairment loss to decrease, the decrease in impairment loss is reversed through profit or loss.

(I) Property and equipment

Property and equipment are initially measured at cost and after initial recognition. The cost of property and equipment includes expenditures arising directly from the construction or acquisition of the asset, any costs directly attributable to bringing the asset to the location and condition necessary for it to be capable of operating in the manner intended by management and the initial estimate of the costs of dismantling and removing the item and restoring the site on which it is located.

Property and equipment are carried at cost less accumulated depreciation and accumulated impairment losses. Certain land and buildings are measured at fair value at the date of transition to IFRS, which is deemed cost, in accordance with IFRS 1, *First-time Adoption of IFRS*. Dividend from relevant revaluation surplus is prohibited in accordance with the resolution of the board of directors.

The Group recognizes in the carrying amount of an item of property and equipment the cost of replacing part of property and equipment when that cost is incurred if it is probable that future economic benefits associated with the item will flow to the Group and the cost of the item can be measured reliably. The carrying amount of those parts that are replaced is derecognized. The costs of the day-to-day servicing of property and equipment are recognized in profit

or loss as incurred.

Land is not depreciated. Other property and equipment are depreciated on a straight-line basis over the estimated useful lives, which most closely reflect the expected pattern of consumption of the future economic benefits embodied in the asset. Leased assets under finance leases are depreciated over the shorter of the lease term and their useful lives. The estimated useful lives for the current and comparative periods are as follows:

Descriptions	Useful lives
Buildings	40 years
Other properties	4~5 years

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)

The gain or loss arising from the derecognition of an item of property and equipment, which is included in profit or loss, is determined as the difference between the net disposal proceeds, if any, and the carrying amount of the item. Depreciation methods, useful lives and residual values are reassessed at each fiscal year-end and any adjustment is accounted for as a change in accounting estimate.

(m) Intangible assets

Intangible assets are measured initially at cost and, subsequently, are carried at cost less accumulated amortization and accumulated impairment losses.

Amortization of intangible assets except for goodwill is calculated on a straight-line basis over the estimated useful lives of intangible assets as below from the date that they are available for use. The residual value of intangible assets is zero. However, as there are no foreseeable limits to the periods over which club memberships are expected to be available for use, this intangible asset is determined as having indefinite useful lives and not amortized.

Descriptions

Software and capitalized development cost
Other intangible assets

Useful lives

5 years
5 years or contract periods,
whichever the shorter

Amortization periods and the amortization methods for intangible assets with finite useful lives are reviewed at the end of each reporting period. The useful lives of intangible assets that are not being amortized are reviewed at the end of each reporting period to determine whether events and circumstances continue to support indefinite useful life assessments for those assets. Changes are accounted for as changes in accounting estimates.

Expenditures on research activities, undertaken with the prospect of gaining new technical knowledge and understanding, are recognized in profit or loss as incurred. Development expenditures are capitalized only if development costs can be measured reliably, the product or process is technically and commercially feasible, future economic benefits are probable, and the Group intends to and has sufficient resources to complete development and to use or sell the asset. Other development expenditures are recognized in profit or loss as incurred.

(n) Investment properties

Investment property is property held either to earn rental income or for capital appreciation or both. An investment property is initially recognized at cost including any directly attributable expenditure. Subsequent to initial recognition, the asset is measured at cost less accumulated depreciation and accumulated impairment losses, if any.

The depreciation method and the estimated useful lives for the current and comparative periods were as follows:

Descriptions	Depreciation method	Useful lives
Buildings	Straight-line	40 years

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

3. Significant accounting policies (continued)

Subsequent costs are recognized in the carrying amount of investment property at cost or, if appropriate, as separate items if it is probable that future economic benefits associated with the item will flow to the Group and the cost of the item can be measured reliably. The carrying amount of the replaced part is derecognized. The costs of the day-to-day servicing are recognized in profit or loss as incurred.

Depreciation methods, useful lives and residual values are reviewed at the end of each reporting date and adjusted, if appropriate. The change is accounted for as changes in accounting estimates.

(o) Leased assets

The Group classifies and accounts for leases as either a finance or operating lease, depending on the terms. Leases where the Group assumes substantially all of the risks and rewards of ownership are classified as finance leases. All other leases are classified as operating leases.

i) Finance leases

At the commencement of the lease term, the Group recognizes as finance assets and finance liabilities in its consolidated statements of financial position, the lower amount of the fair value of the leased property and the present value of the minimum lease payments, each determined at the inception of the lease. Any initial direct costs are added to the amount recognized as an asset.

Minimum lease payments are apportioned between the finance charge and the reduction of the outstanding liability. The finance charge is allocated to each period during the lease term so as to produce a constant periodic rate of interest on the remaining balance of the liability. Contingent rents are charged as expenses in the periods in which they are incurred.

The depreciable amount of a leased asset is allocated to each accounting period during the period of expected use on a systematic basis consistent with the depreciation policy the lessee adopts for depreciable assets that are owned. If there is no reasonable certainty that the lessee will obtain ownership by the end of the lease term, the asset is fully depreciated over the shorter of the lease term and its useful life. The Group reviews to determine whether the leased asset may be impaired.

ii) Operating leases

Payments made under operating leases are recognized in profit or loss on a straight-line basis over the period of the lease.

iii) Lessor

Under a finance lease, the lessor recognizes a finance lease receivable. Over the lease term the lessor accrues interest income on the net investment. The receipts under the lease are allocated between reducing the net investment and recognizing finance income, so as to produce a constant rate of return on the net investment.

Under an operating lease, the lessor recognizes the lease payments as income over the lease term and the leased asset in its statement of financial position.

(p) Assets held for sale

Non-current assets, or disposal groups comprising assets and liabilities, that are expected to be recovered primarily through sale rather than through continuing use, are classified as held for sale. In order to be

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

3. Significant accounting policies (continued)

classified as held for sale, the asset (or disposal group) must be available for immediate sale in its present condition and its sale must be highly probable. The assets or disposal group that are classified as non-current assets held for sale are measured at the lower of their carrying amount and fair value less cost to sell.

The Group recognizes an impairment loss for any initial or subsequent write-down of an asset (or disposal group) to fair value less costs to sell, and a gain for any subsequent increase in fair value less costs to sell, up to the cumulative impairment loss previously recognized in accordance with IAS 36, *Impairment of Assets*.

An asset that is classified as held for sale or part of a disposal group classified as held for sale is not depreciated (or amortized).

(q) Impairment of non-financial assets

The carrying amounts of the Group's non-financial assets, other than assets arising from employee benefits, deferred tax assets and non-current assets held for sale, are reviewed at the end of the reporting period to determine whether there is any indication of impairment. If any such indication exists, then the asset's recoverable amount is estimated.

Goodwill and intangible assets that have indefinite useful lives or that are not yet available for use, irrespective of whether there is any indication of impairment, are tested for impairment annually by comparing their recoverable amount to their carrying amount.

The Group estimates the recoverable amount of an individual asset, if it is impossible to measure the individual recoverable amount of an asset, then the Group estimates the recoverable amount of cash-generating unit (CGU). A CGU is the smallest identifiable group of assets that generates cash inflows that are largely independent of the cash inflows from other assets or group of assets. The recoverable amount of an asset or a CGU is the greater of its value in use and its fair value less costs to sell. The value in use is estimated by applying a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset or the CGU for which estimated future cash flows have not been adjusted, to the estimated future cash flows expected to be generated by the asset or the CGU.

An impairment loss is recognized if the carrying amount of an asset or a CGU exceeds its recoverable amount. Impairment losses are recognized in profit or loss.

Goodwill acquired in a business combination is allocated to each CGU that is expected to benefit from the synergies arising from the goodwill acquired. Any impairment identified at the CGU level will first reduce the carrying value of goodwill and then be used to reduce the carrying amount of the other assets in the CGU on a pro rata basis. Except for

impairment losses in respect of goodwill which are never reversed, an impairment loss is reversed if there has been a change in the estimates used to determine the recoverable amount. An impairment loss is reversed only to the extent that the asset's carrying amount does not exceed the carrying amount that would have been determined, net of depreciation or amortization, if no impairment loss had been recognized.

(r) Non-derivative financial liabilities policy applicable from January 1, 2018

The Group recognizes financial liabilities in the consolidated statement of financial position when the Group becomes a party to the contractual provisions of the financial liability in accordance with the substance of the contractual arrangement and the definitions of financial liabilities.

Transaction costs on the financial liabilities at FVTPL are recognized in profit or loss as incurred.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)*i) Financial liabilities designated at FVTPL*

Financial liabilities can be irrevocably designated as measured at FVTPL if doing so eliminates or significantly reduces an accounting mismatch that would otherwise arise from measuring assets or liabilities or recognizing the gains and losses on them on different bases, or a group of financial instruments is managed and its performance is evaluated on a fair value basis, in accordance with a documented risk management or investment strategy. The amount of change in the fair value of the financial liabilities designated at FVTPL that is attributable to changes in the credit risk of that liabilities shall be presented in other comprehensive income.

ii) Financial liabilities at FVTPL

Since initial recognition, financial liabilities at FVTPL is measured at fair value, and changes in the fair value are recognized as profit or loss.

iii) Other financial liabilities

Non-derivative financial liabilities other than financial liabilities at fair value through profit or loss are classified as other financial liabilities. At the date of initial recognition, other financial liabilities are measured at fair value minus transaction costs that are directly attributable to the acquisition. Subsequent to initial recognition, other financial liabilities are measured at amortized cost using the effective interest method.

The Group derecognizes a financial liability from the consolidated statement of financial position when it is extinguished (i.e. when the obligation specified in the contract is discharged, cancelled or expires).

(s) Non-derivative financial liabilities policy applicable before January 1, 2018

The Group classifies non-derivative financial liabilities into financial liabilities at fair value through profit or loss or other financial liabilities in accordance with the substance of the contractual arrangement and the definitions of financial liabilities. The Group recognizes financial liabilities in the consolidated statement of financial position when the Group becomes a party to the contractual provisions of the financial liability.

i) Financial liabilities at fair value through profit or loss

Financial liabilities at fair value through profit or loss include financial liabilities held for trading or designated as such upon initial recognition. Subsequent to initial recognition, financial liabilities at fair value through profit or loss are measured at fair value, and changes therein are recognized in profit or loss. Upon initial recognition, transaction

costs that are directly attributable to the acquisition are recognized in profit or loss as incurred.

The criteria for designation of financial liabilities at FVTPL upon initial recognition are the same as those of financial assets at FVTPL.

ii) Other financial liabilities

Non-derivative financial liabilities other than financial liabilities at fair value through profit or loss are classified as other financial liabilities. At the date of initial recognition, other financial liabilities are

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)

measured at fair value minus transaction costs that are directly attributable to the acquisition. Subsequent to initial recognition, other financial liabilities are measured at amortized cost using the effective interest method.

The Group derecognizes a financial liability from the consolidated statement of financial position when it is extinguished (i.e. when the obligation specified in the contract is discharged, cancelled or expires).

(t) Foreign currencies

i) Foreign currency transactions

Transactions in foreign currencies are translated to the respective functional currencies of the Group at exchange rates at the dates of the transactions. Monetary assets and liabilities denominated in foreign currencies at the reporting date are retranslated to the functional currency using the reporting date's exchange rate. The foreign currency gain or loss on monetary items is the difference between amortized cost in the functional currency at the beginning of the period, adjusted for effective interest and payments during the period, and the amortized cost in foreign currency translated at the exchange rate at the end of the reporting period. Non-monetary assets and liabilities denominated in foreign currencies that are measured at fair value are retranslated to the functional currency at the exchange rate at the date that the fair value was determined.

ii) Foreign operations

If the presentation currency of the Group is different from a foreign operation's functional currency, the financial statements of the foreign operation are translated into the presentation currency using the following methods:

The assets and liabilities of foreign operations, whose functional currency is not the currency of a hyperinflationary economy, are translated to presentation currency at exchange rates at the reporting date. The income and expenses of foreign operations are translated to functional currency at exchange rates at the dates of the transactions. Foreign currency differences are recognized in other comprehensive income.

Any goodwill arising on the acquisition of a foreign operation and any fair value adjustments to the carrying amounts of assets and liabilities arising on the acquisition of that foreign operation are treated as assets and liabilities of the foreign operation and are translated using the exchange rate at the reporting date.

iii) Net investment in a foreign operation

If the settlement of a monetary item receivable from or payable to a foreign operation is neither planned nor likely in the foreseeable future, then foreign currency differences arising on the item form part of the net investment in the foreign operation and are recognized in other comprehensive income and reclassified from equity to profit or loss on disposal of the net investment.

(u) Equity capital

i) Capital stock

Capital stock is classified as equity. Incremental costs directly attributable to the transaction of stock are deducted from equity, net of any tax effects.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)

Preferred stocks are classified as equity if they do not need to be repaid or are repaid only at the option of the Group and if payment is determined by the Group's discretion, and dividends are recognized when the shareholders' meeting approves the dividends. Preferred stocks that are eligible for reimbursement of a defined or determinable amount on or after a certain date are classified as liabilities. The related dividend is recognized in profit or loss at the time of occurrence as interest expense.

ii) Hybrid bonds

The Group classifies an issued financial instrument, or its component parts, as a financial liability or an equity instrument depending on the substance of the contractual arrangement of such financial instrument. Hybrid bonds where the Group has an unconditional right to avoid delivering cash or another financial asset to settle a contractual obligation are classified as an equity instrument and presented in equity.

iii) Capital structure

The effect of changes in ownership interests in subsidiaries that do not lose control over the equity attributable to owners of the parent is included in capital adjustments.

(v) Employee benefits*i) Short-term employee benefits*

Short-term employee benefits are employee benefits that are due to be settled within 12 months after the end of the period in which the employees render the related service. When an employee has rendered service to the Group during an accounting period, the Group recognizes the undiscounted amount of short-term employee benefits expected to be paid in exchange for that service.

ii) Other long-term employee benefits

The Group's net obligation in respect of other long-term employee benefits that are not expected to be settled wholly before 12 months after the end of the annual reporting period in which the employees render the related service, is the amount of future benefit that employees have earned in return for their service in the current and prior periods. That benefit is discounted to determine its present value. Remeasurements are recognized in profit or loss in the period in which they arise.

iii) Retirement benefits: defined benefit plans

A defined benefit plan is a post-employment benefit plan other than a defined contribution plan. The Group's net obligation in respect of defined benefit plans is calculated by estimating the amount of future benefit that employees have earned in return for their service in the current and prior periods; that benefit is discounted to determine its present value. The fair value of plan assets is deducted. The calculation is performed annually by an independent actuary using the projected unit credit method.

The discount rate is the yield at the reporting date on high-quality corporate bonds that have maturity dates approximating the terms of the Group's obligations and that are denominated in the same currency in which the benefits are expected to be paid. The Group recognizes service cost and net interest on the net defined benefit liability (asset) in profit or loss and remeasurements of the net defined benefit liability (asset) in other comprehensive income.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)

iv) Retirement benefits: defined contribution plans

The Group recognizes the contribution expense as an account of severance payments in profit or loss in the period according to the defined contribution plans.

Defined benefit liabilities are calculated annually by independent actuaries using the predicted unit credit method. If the net present value of the defined benefit obligation less the fair value of the plan assets is an asset then the present value of the economic benefits available to the entity in the form of a refund from the plan or a reduction in future contributions to the plan.

The remeasurement component of net defined benefit liability is the change in the effect of the asset except for the amount included in the net interest income of plan assets and net revenues of plan assets excluding actuarial gains and losses to the net of defined benefit liabilities. It is immediately recognized in other comprehensive income. The Group determines the net interest on the net defined benefit obligation (asset) by multiplying the net defined benefit obligation (asset) by the discount rate determined at the beginning of the annual reporting period and is the net present value of the net defined benefit obligation. It is determined by taking into consideration the fluctuations. Net interest expense and other expenses related to defined benefit plans are recognized in profit or loss.

When an amendment or reduction of the system occurs, the gain or loss resulting from the change or decrease in the benefits to the past service is immediately recognized in profit or loss. The Group recognizes gains or losses on settlement when the defined benefit plan is settled.

v) Termination benefits

Termination benefits are recognized as an expense when the Group is committed demonstrably, without realistic possibility of withdrawal, to a formal detailed plan to either terminate employment before the normal retirement date, or to provide termination benefits as a result of an offer made to encourage voluntary redundancy. Termination benefits for voluntary redundancies are recognized as an expense if the Group has made an offer of voluntary redundancy, it is probable that the offer will be accepted, and the number of acceptances can be estimated reliably. If benefits are payable more than 12 months after the reporting period, then they are discounted to their present value.

(w) Share-based payment transactions

The grant date fair value of share-based payment awards granted to employees is recognized as an employee expense, with a corresponding increase in equity, over the period that the employees unconditionally become entitled to the awards. The amount recognized as an expense is adjusted to reflect the number of awards for which the related service

and non-market vesting conditions are expected to be met, such that the amount ultimately recognized as an expense is based on the number of awards that do meet the related service and non-market performance conditions at the vesting date. For share-based payment awards with non-vesting conditions, the grant date fair value of the share-based payment is measured to reflect such conditions and there is no true-up for differences between expected and actual outcomes.

The fair value of the amount payable to employees in respect of share appreciation rights, which are settled in cash, is recognized as an expense with a corresponding increase in liabilities, over the period that the employees unconditionally become entitled to payment. The liability is remeasured at each reporting date and at settlement date. Any changes in the fair value of the liability are recognized as personnel expense in profit or loss.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)

(x) Provisions

Provisions are recognized when the Group has a present legal or constructive obligation as a result of a past event, it is probable that an outflow of resources embodying economic benefits will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation.

The risks and uncertainties that inevitably surround many events and circumstances are taken into account in reaching the best estimate of a provision. Where the effect of the time value of money is material, provisions are determined at the present value of the expected future cash flows.

Provisions are reviewed at the end of each reporting period and adjusted to reflect the current best estimate. If it is no longer probable that an outflow of resources embodying economic benefits will be required to settle the obligation, the provision is reversed.

Provisions shall be used only for expenditures for which the provisions are originally recognized.

(y) Financial guarantee contract policy applicable from January 1, 2018

A financial guarantee contract is a contract that requires the Group to make specified payments to reimburse the holder for a loss it incurs because a specified debtor fails to make payment when due in accordance with the original or modified terms of a debt instrument.

Financial guarantee contracts are recognized initially at their fair value, and the initial fair value is amortized over the life of the financial guarantee contract. The financial guarantee liability is subsequently measured at the higher of the amount of the best estimate of the expenditure required to settle the present obligation at the end of reporting period; and the amount initially recognized less, cumulative amortization recognized on a straight-line basis over the guarantee period. Financial guarantee liabilities are included within other liabilities.

After initial recognition, financial guarantee contracts are measured at the higher of:

Loss allowance in accordance with IFRS 9, *Financial Instruments*

The amount initially recognized less, when appropriate, the cumulative amount of income recognized in accordance with the principles of IFRS 15, *Revenue from Contracts with Customers*

(z) Financial guarantee contract policy applicable before January 1, 2018

A financial guarantee contract is a contract that requires the issuer (the Group) to make specified payments to reimburse the holder for a loss it incurs because a specified debtor fails to make payments when due in accordance with the original or modified terms of a debt instrument.

Financial guarantee contracts are initially measured at their fair values and, if not designated as at fair value through profit or loss, are subsequently measured at the higher of:

The amount determined in accordance with IAS 37 *Provisions, Contingent Liabilities and Contingent Assets* and

The initial amount recognized, less, when appropriate, cumulative amortization recognized in accordance with IAS 18, *Revenue*

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)

(aa) Insurance contracts

1) Investment contract liabilities, including insurance contract liabilities and discretionary dividend factors

The group establishes liability reserves in accordance with the Insurance Business Law and the related regulations. The reserves are calculated according to the insurance policy, insurance premiums and liability reserve calculation method. The main contents are as follows.

1-1) Premium reserves

The present value of the premiums payable to the policy holders after the balance sheet date is the present value of the net premium to be paid after the end of the reporting period. The amount is deducted from the value.

1-2) Unpaid premium reserves

As of the end of the reporting period, premiums that have paid due are calculated based on premiums and the liability reserve calculation method.

1-3) Guarantee reserves

The total amount of reserve for variable minimum guarantee () and reserve for general account guarantee () is provided as guarantee reserve.

Variable minimum guarantee reserve

This reserve is the amount that must be accumulated to guarantee insurance premiums above a certain level for contracts maintained as of the end of the reporting period, and is measured at the higher of:

- i) the average amount of the top 30% of net loss expected in the future
 - ii) the minimum required amount by insurance types, minimum guarantees and limits of stock investment portion
- General account guarantee reserve

As of the end of the reporting period, the amount of reserve for insurance contracts that are insured under general account is required to be paid to guarantee the level of refunds,

- i) Average of the amount deducted from the appropriateness of the liability reserve calculated by excluding the guarantee option from the appropriateness evaluation of the liability reserve calculated by including the guarantee option for each interest rate scenario
- ii) The amount of compensation (including annulment contract) against the guarantee received from the policy holder by the rate applied at the premium calculation in the insurance premium and liability reserve calculation method

1-4) Reserve for outstanding claims

As of the end of the reporting period, the Group has accrued the amount for which the reason for the payment of insurance claims, etc. has been incurred and the amount of the claim payment has not been paid yet due to the dispute or lawsuit related to the insurance settlement. In addition, the Group recognizes unrecognized losses based on historical experience.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)

1-5) Reserves for participating policyholders' dividends

The reserve is provided for the purpose of contributing to the policyholder dividend according to the laws and regulations and the reserve for dividend reserve for the policyholder and the dividend reserve for the subsequent business year.

The policyholder dividend reserve is the amount that is not paid as of the end of the reporting period for the settlement amount and the reserve for dividend policy for the next fiscal year is based on the policyholder dividend calculated on the insurance contract effective as of the end of the reporting period.

Excess crediting rate reserve

In the case of a dividend insurance contract which has been maintained for more than one year as of the end of the reporting period among contracts signed before October 1, 1997, the difference between the planned interest rate and the one-year maturity deposit rate shall be preserved.

Mortality dividend reserve

Dividends arising from contracts that are maintained for more than one year at the end of the reporting period are used to offset the expected mortality and actual mortality rates applied to premiums.

Interest dividend reserve

For the contracts that have been maintained for more than one year as of the end of the reporting period, the amount calculated by applying the interest dividend reserve rate to the net written premium reserve less the unearned acquisition costs. However, the insurance sold before October 1, 1997 is applied to the amount deducted from the net premium in the event that the planned interest rate by the insurance product is less than the dividend standard.

Reserves for long-term special dividends

For the effective dividend policy agreement that has been maintained for 6 years or more, the amount calculated by applying the long-term special dividend rate to the amount deducted from the net premiums for the end of the year.

However, insurance sold before October 1, 1997 is applied to the deduction of unearned premiums at the end of the year when the expected interest rate by the insurance product is less than the dividend standard rate.

1-6) Reserve for interest dividends

In order to cover the policyholder dividend in the future, the amount is accumulated in accordance with the laws and regulations and the insurance contracts.

1-7) Reserve for dividend insurance loss reserve

In accordance with the regulations set by the supervisory authority, dividend insurance profit is accumulated within 30/100 of the contractor's stake. The reserve loss for dividend insurance shall be preserved at the end of the reporting period and shall be used as the policyholder dividend source for the individual contractor.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)

2) Contractor's equity adjustment

The Group classifies the gains and losses on available-for-sale financial assets as of the end of the reporting period as contractor's equity and shareholder's equity based on the ratio of the average liability reserves of the dividend and non-dividend policies for the fiscal year.

3) Evaluation of debt appropriateness

At the end of each reporting period, the group assesses whether the recognized insurance liability is appropriate using the current estimates of future cash flows of the policy, and if the carrying amount of the insurance liability is deemed to be inappropriate in terms of the estimated future cash flows. The reserve for premiums is added to the profit or loss by the amount corresponding to the deficiency.

4) Reinsurance assets

The group presents the recoverable amount of reinsurance assets. The group assesses at the end of each reporting period whether there is objective evidence that a reinsurance asset is impaired. If there is objective evidence that the entity will not be able to collect all amounts under the terms of the agreement as a result of an event that occurred after the initial recognition and if the event has a reliable and measurable impact on the amount to be received. If reinsurance assets are determined to be impaired, impairment loss is recognized in the profit and loss for the current period.

5) Deferred acquisition cost

The group recognizes unrealized gains and losses arising from long-term insurance contracts as assets and amortizes the premiums over the life of the insurance contracts equally. If the contribution period exceeds 7 years, the amortization period is 7 years if there is an unrecognized balance at the date of the cancellation, the entire amount of the cancellation is amortized in the fiscal year to which the cancellation date belongs. But, if the ratio of additional premiums is higher at the early stage of the insurance period for the purpose of recovering the excess of the unearned premiums and the early settlement costs, the new settlement expenses are treated as the period expense.

(ab) Recognition of revenues and expenses

Other than revenues under the scope of IAS 17, Leases, IAS 28, Investments in Associates and Joint Ventures, IFRS 9, Financial Instruments, IFRS 10, Consolidated Financial Statements, and IFRS 11, Joint Arrangements, the Group's revenues are recognized using five-step revenue recognition model as follows: Identifying the contract, Identifying

performance obligations g Determining the transaction price g Allocating the transaction price to performance obligations g Recognizing the revenue by satisfying performance obligations .

i) Interest income and expense

Interest income and expense are recognized in profit or loss using the effective interest method. The effective interest rate is the rate that exactly discounts the estimated future cash payments and receipts through the expected life of the financial asset or liability or, where appropriate, a shorter period to the net carrying amount of the financial asset or liability. When calculating the effective interest rate, the Group

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)

estimates cash flows considering all contractual terms of the financial instrument, but does not consider future credit losses. The calculation includes all fees and points paid or received between parties to the contract that are an integral part of the effective interest rate, and all other premiums or discounts. When it is not possible to estimate reliably the cash flows or the expected life of a financial instrument, the Group uses the contractual cash flows over the full contractual term of the financial instrument.

Once a financial asset or a group of similar financial assets has been written down as a result of an impairment loss, interest income is thereafter recognized using the rate of interest used to discount the future cash flows for the purpose of measuring the impairment loss.

ii) Fees and commission

The recognition of revenue for financial service fees depends on the purposes for which the fees are assessed and the basis of accounting for any associated financial instrument.

a) Fees that are an integral part of the effective interest rate of a financial instrument

Such fees are generally treated as an adjustment to the effective interest rate. Such fees may include compensation for activities such as evaluating the borrower's financial condition, evaluating and recording guarantees, collateral and other security arrangements, preparing and processing documents, closing the transaction and the origination fees received on issuing financial liabilities. However, when the financial instrument is measured at fair value with the change in fair value recognized in profit or loss, the fees are recognized as revenue when the instrument is initially recognized.

b) Fees earned as services are provided

Fees and commission income, including investment management fees, sales commission, and account servicing fees, are recognized as the related services are provided.

c) Fees that are earned on the execution of a significant act

The fees that are earned on the execution of a significant act including commission on the allotment of shares or other securities to a client, placement fee for arranging a loan between a borrower and an investor and sales commission, are recognized as revenue when the significant act has been completed.

iii) Insurance income

The Group recognizes insurance income for the insurance premium paid of which the payment date arrived by the premium payment methods of the insurance contract; and recognizes advance receipts for the insurance premium paid of which the payment date has not arrived at the end of the reporting period.

iv) Dividends

Dividends income is recognized when the shareholder's right to receive payment is established. Usually this is the ex-dividend date for equity securities. The Group provides compensation in various forms such as payment discounts and gifts.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)**(ac) Revenue from Contracts with Customers policy applicable from January 1, 2018**

The fair value of the consideration received or receivable in exchange for the initial transaction is allocated to the reward points (points) and the remainder of the fee income. The consideration to be allocated to the points is estimated based on the fair value of the monetary benefits to be provided in consideration of the expected recovery rate of points awarded in accordance with the customer loyalty program and the expected time of recovery. Points for distribution through the cost paid by the customer is recognized by deducting from the revenue from fees.

(ad) Customer loyalty system policy applicable before January 1, 2018

Under the Customer Loyalty system, the fair value of the consideration received or receivable in exchange for the initial transaction is allocated to the reward points (points) and the remainder of the fee income. The Group provides compensation in various forms such as payment discounts and gifts. The consideration allocated to the points is based on the fair value of the monetary benefits to be provided for the points to be recovered. The fair value of the benefits provided for the points reclaimed in accordance with the customer loyalty program is estimated taking into account the expected recovery rate and the expected recovery time. The consideration to be allocated to the points is estimated based on the fair value of the monetary benefits to be provided in consideration of the expected recovery rate of points awarded in accordance with the customer loyalty program and the expected time of recovery. Revenue recognition is measured based on the relative size of the points recovered and exchanged for monetary consideration at the total points expected to be recovered.

In addition, if the unavoidable costs incurred to fulfill the compensation obligation in connection with the customer loyalty system are expected to exceed the amount not recognized as revenue allocated to the compensation score at the time of initial sale, the excess amount is recognized as provision.

(ae) Income tax

Income tax expense comprises current and deferred tax. Current tax and deferred tax are recognized in profit or loss except to the extent that it relates to a business combination, or items recognized directly in equity or in other comprehensive income.

i) Current tax

Current tax is the expected tax payable or receivable on the taxable profit or loss for the year, using tax rates enacted or substantively enacted at the end of the reporting period and any adjustment to tax payable in respect of previous years. The taxable profit is different from the accounting profit for the period since the taxable profit is calculated

excluding the temporary differences, which will be taxable or deductible in determining taxable profit (tax loss) of future periods, and non-taxable or non-deductible items from the accounting profit.

ii) Deferred tax

Deferred tax is recognized, using the asset-liability method, in respect of temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for taxation purposes. A deferred tax liability is recognized for all taxable temporary differences. A deferred tax asset is

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)

recognized for all deductible temporary differences to the extent that it is probable that taxable profit will be available against which they can be utilized. However, deferred tax is not recognized for the following temporary differences: taxable temporary differences arising on the initial recognition of goodwill, or the initial recognition of assets or liabilities in a transaction that is not a business combination and that affects neither accounting profit or loss nor taxable income.

The Group recognizes deferred tax liabilities for all taxable temporary differences associated with investments in subsidiaries, associates, and interests in joint ventures, except to the extent that the Group is able to control the timing of the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future. The Group recognizes deferred tax assets for all deductible temporary differences arising from investments in subsidiaries and associates, to the extent that it is probable that the temporary difference will reverse in the foreseeable future and taxable profit will be available against which the temporary difference can be utilized.

Deferred tax assets and liabilities are measured at the tax rates that are expected to apply to the period when the asset is realized or the liability is settled, based on tax rates (and tax laws) that have been enacted or substantively enacted by the end of the reporting period. The measurement of deferred tax liabilities and deferred tax assets reflects the tax consequences that would follow from the manner in which the Group expects, at the end of the reporting period to recover or settle the carrying amount of its assets and liabilities.

The carrying amount of a deferred tax asset is reviewed at the end of each reporting period and reduced the carrying amount to the extent that it is no longer probable that sufficient taxable profit will be available to allow the benefit of part or all of that deferred tax asset to be utilized.

Deferred tax assets and liabilities are offset only if there is a legally enforceable right to offset the related current tax liabilities and assets, and they relate to income taxes levied by the same tax authority and they intend to settle current tax liabilities and assets on a net basis.

If any additional income tax expense exists by payment of dividends, the Group recognizes it when the liability relating to the payment is recognized.

(af) Accounting for trust accounts

The Group accounts for trust accounts separately from its bank accounts under the Financial Investment Services and Capital Markets Act and thus the trust accounts are not included in the accompanying consolidated financial statements. Borrowings from trust accounts are included in other liabilities. Trust fees and commissions in relation to the service provided to trust accounts by the Group are recognized as fees and commission income.

(ag) Earnings per share

The Group presents basic and diluted earnings per share (EPS) data for its ordinary shares. Basic EPS is calculated by dividing the profit or loss attributable to the ordinary shareholder of the Group by the weighted average number of common shares outstanding during the period, adjusted for own shares held. Diluted EPS is determined by adjusting the profit or loss attributable to ordinary shareholders and the weighted average number of ordinary shares outstanding, adjusted for own shares held, for the effects of all dilutive potential ordinary shares, which comprise share options granted to employees.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

3. Significant accounting policies (continued)

(ah) New standards and interpretations not yet adopted

The following new standards and amendments to existing standards have been published and are mandatory for the Group to adopt for annual periods beginning on or after January 1, 2018, and the Group has not early adopted them.

i) IFRS 16 Lease

IFRS 16, Leases, which was enacted on May 22, 2017, is effective for annual periods beginning on or after January 1, 2019, but may be applied early.

The Standard is based on current IAS 17 Leases, IFRIC 4, Determining whether an arrangement contains a lease, IFRIC 15 Operating lease: Incentive. It will replace IFRIC 27, Evaluating the substances of transactions involving the legal form of a lease.

At the date of commitment, the Group determines whether the contract is a lease or whether the contract includes a lease, and identifies whether the contract includes a lease or a lease in accordance with this standard. The lessee and lessor must account for each lease element of the lease as a lease, separate from the non-lease element in an agreement that includes a lease or lease.

The lessee is required to recognize an asset that represents the right to use the underlying asset and a liability that represents the obligation to pay the lease payments. However, in the case of short-term lease and small asset lease, the lessee is not required to separate the non-lease component from the lease component in accordance with the simplified method, and can apply the method of accounting for each lease component and related non-lease component as one lease component.

The accounting treatment of lessor is not significantly different from the accounting treatment of the current IAS 17.

< Accounting treatment as a lessee >

Application method of IFRS 16 Lease

The lessee recognizes the cumulative effect of applying the retrospective application (full retroactive method) to each past reporting period presented in accordance with IAS 8, Accounting Policies, Changes in Accounting Estimates and Errors (Cumulative Effect Batch Reconciliation Action).

The Group plans to apply IFRS 16 for the first time by applying cumulative effect and cumulative temporary adjustment measures as of January 1, 2019. Accordingly, the cumulative effect of applying IFRS 16 is adjusted in the

retained earnings (or, where appropriate, other components of equity) at the date of initial application and the comparative financial statements are not going to be restated.

Financial effect of IFRS 16 Lease

We assessed the impact on the financial statements for the year 2019 based on the information and available information as of January 1, 2019, in order to assess the financial impact of the initial adoption of IFRS 16.

The aggregate amount of the minimum lease payments prior to the present value discount of the assets currently used as operating leases is ₩610,091 million and the discount amount is ₩591,714 million at the incremental borrowing rate of the lessee. However, the Group will account for each lease element and associated non-lease element as a single lease element, using the simplified method of accounting for contracts that include all or part of the lease or lease.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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3. Significant accounting policies (continued)

As a result of a detailed analysis of the effect on the financial statements, the Group expects the assets and liabilities to be pledged as of January 1, 2019 to increase by ₩581,925 million and ₩536,831 million, respectively.

< Accounting treatment as a lessor >

Application method and financial impact of IFRS 16 Lease

As a lessor, the Group has specifically assessed the effect of accounting for the identification of lease contracts, separation of lease components on the financial statements in accordance with IFRS 16. There is no impact on finance lease payment receivables as of January 1, 2019.

If the Group is a medium-term lease contractor, it is classified as an operating lease before the initial application date. The lease is classified as operating lease or finance lease according to IFRS 16. If the lease is classified as a finance lease, it is accounted for as a new finance lease at the date of initial application. As a result of assessing the specific financial impact based on the context and available information as of January 1, 2019, we have not been accounted for as a new finance lease. However, the financial impact assessment may change depending on additional information available in the future.

ii) Amendment of IFRS 9 Financial instruments

Financial assets that are redeemable with reimbursable financial assets are remeasured to be measured at amortized cost. When the financial liabilities measured at amortized cost are changed but not eliminated, the effect of the change should be recognized in profit or loss. These amendments will be effective from the fiscal year beginning on or after January 1, 2019 and are subject to early adoption.

iii) Amendment of IAS 19 Employee benefits

If the change in the defined benefit plan results in the revision, reduction or settlement of the plan, the assumptions used in remeasurement of the net defined benefit obligation (asset) to estimate the current service cost and net interest for the remaining period of the period after the adjustments in the plan. In addition, the decrease in excess of the amount of unrecognized actuarial gain or loss is reflected in profit or loss as a part of past service cost or settlement profit or loss. The amendments are applied prospectively to the amendment, reduction, and settlement of systems that have occurred since the fiscal year beginning on or after January 1, 2019.

iv) Amendment of IAS 28 Investment in associates and joint ventures

The clarification has been conducted that other financial instruments (financial instruments that do not apply the equity method) to the related companies or joint ventures are subject to IFRS 9, and that the long-term investment interests that form part of the net investment in the related companies or joint ventures was revised accordingly with the IFRS 9. These amendments will be effective from the fiscal year beginning on or after January 1, 2019 and are subject to early adoption. In addition, the first-time adoption of this standard does not require reclassification of comparative information by applying the transitional provisions of 9, and the effect of retroactive application is reflected in the beginning retained earnings (or other appropriate capital elements) at the date of initial application.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

3. Significant accounting policies (continued)

v) Establishment of IFRIC 23 Uncertainty over income tax treatments

The interpretation is applied to the recognition and measurement of deferred tax and deferred income tax if there is uncertainty about whether or not the tax treatment applied by the entity will be recognized by the taxing authority. Guidance on accounting units of uncertainty in taxation and circumstances requiring reevaluation Includes. The interpretation is effective from January 1, 2019, and it can choose between retroactively reclassifying comparative financial statements or reflect the effect of the change on the basis of the first year of adoption.

vi) Annual amendments through year 2015 2017

vi-i) IFRS 3 Business combination

The business combination that is held in stages to acquire control over the joint business (meeting the definition of the business) while retaining the rights and liabilities for the assets related to the joint business. Therefore, remeasurement should be conducted for all underlying assets and liabilities. The amendments are effective for annual periods beginning on or after January 1, 2019, or reflect the effect of the change on the basis of the first year of adoption.

vi-ii) IFRS 11 Joint arrangements

If a jointly controlled entity that participates in a joint venture but does not have joint control obtains joint control over the joint venture, the previously held equity interest in the joint venture is not remeasured. This amendment is effective for transactions beginning after January 1, 2019 and beginning after the fiscal year beginning on or reflect the effect of the change on the basis of the first year of adoption.

vi-iii) IAS 12 Income taxes

The provisions of paragraph 57A of IAS 12 (defining the timing and recognition of dividend tax effects) apply to all income tax effects of dividends and are recognized in profit or loss, other comprehensive income or capital. This amendment is effective for fiscal years beginning on or after January 1, 2019, but may be applied early.

vi-iv) IAS 23 Borrowing costs

If most of the necessary activities to enable us to use (or sell) our qualifying assets has been completed, it will include the funds borrowed for specific purposes in ordinary borrowings to acquire those assets. This amendment applies to borrowing costs incurred subsequent to the first year of the application of the amendment and may be applied early in the financial year beginning after January 1, 2019.

4. Financial risk management

(a) Overview

As a financial services provider, Shinhan Financial Group Co., Ltd. and its subsidiaries (collectively the Group) are exposed to various risks relating to lending, credit card, insurance, securities investment, and trading and leasing businesses, its deposit taking and borrowing activities in addition to the operating environment.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

The principal risks to which the Group is exposed are credit risk, market risk, interest rate risk, liquidity risk and operational risk. These risks are recognized, measured and reported in accordance with risk management guidelines established at the Group level and implemented at the subsidiary level through a carefully stratified checks-and-balances system.

i) Risk management principles

The Group risk management is guided by the following core principles:

identifying and managing all inherent risks;

standardizing risk management process and methodology;

ensuring supervision and control of risk management independent of business activities;

continuously assessing risk preference;

preventing risk concentration;

operating a precise and comprehensive risk management system including statistical models; and

balancing profitability and risk management through risk-adjusted profit management.

ii) Risk management organization

The Group risk management system is organized along with the following hierarchy: from the top and at the Group level, the Group Risk Management Committee, the Group Risk Management Council, the Chief Risk Officer and the Group Risk Management Team, and at the subsidiary level, the Risk Management Committees and the Risk Management Team of the relevant subsidiary.

The Group Risk Management Committee, which is under the supervision of the controlling company's Board of Directors, sets the basic group wide risk management policies and strategies. The controlling company's Chief Risk Officer reports to the Group Risk Management Committee, and the Group Risk Management Council, whose members consist of the controlling company's Chief Risk Officer and the risk management team heads of each of subsidiaries, coordinates the risk management policies and strategies at the group level as well as at the subsidiary level among each of subsidiaries.

Each of subsidiaries also has a separate Risk Management Committee, Risk Management Working Committee and Risk Management Team, whose tasks are to implement the group wide risk management policies and strategies at the subsidiary level as well as to set risk management policies and strategies specific to such subsidiary in line with the group wide guidelines. The Group also has the Group Risk Management Team, which supports the controlling company's Chief Risk Officer in his or her risk management and supervisory role.

In order to maintain the group wide risk at an appropriate level, the Group use a hierarchical risk limit system under which the Group Risk Management Committee assigns reasonable risk limits for the entire group and each of subsidiaries, and the Risk Management Committee and the Risk Management Council of each of subsidiaries manage the subsidiary-specific risks by establishing and managing risk limits in more details by type of risk and type of product for each department and division within such subsidiary.

Risk management The Group maintain a group wide risk management system to detect the signals of any risk crisis and, in the event of a crisis actually happening, to respond on a timely, efficient and

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

flexible basis so as to ensure the Group's survival as a going concern. Each subsidiary maintains crisis planning for three levels of contingencies, namely, alert, imminent crisis and crisis, determination of which is made based on quantitative and qualitative monitoring and consequence analysis, and upon the happening of any such contingency, is required to respond according to a prescribed contingency plan. At the controlling company level, the Group maintains and installs crisis detection and response system which is applied consistently group wide, and upon the happening of any contingency at two or more subsidiary level, the Group directly takes charge of the situation so that the Group manages it on a concerted group wide basis.

(b) Credit risk

Credit risk is the risk of potential economic loss that may be caused if a customer or counterparty to a financial instrument fails to meet its contractual obligations, and the largest risk which the Group is facing. The Group's credit risk management encompasses all areas of credit that may result in potential economic loss, including not just transactions that are recorded on balance sheets, but also off-balance-sheet transactions such as guarantees, loan commitments and derivative transactions.

Credit Risk Management of Shinhan Bank

Major policies for Shinhan Bank's credit risk management, including Shinhan Bank's overall credit risk management plan and credit policy guidelines, are determined by the Risk Policy Committee of Shinhan Bank, the executive decision-making body for management of credit risk. The Risk Policy Committee is headed by the Chief Risk Officer, and also comprises of the Chief Credit Officer, the heads of each business unit and the head of the Risk Management Department. In order to separate the loan approval functions from credit policy decision-making, Shinhan Bank has a Credit Review Committee that performs credit review evaluations, which focus on improving the asset quality and profitability from the loans being made, and operates separately from the Risk Policy Committee.

Shinhan Bank complies with credit risk management procedures pursuant to internal guidelines and regulations and continually monitors and improves these guidelines and regulations. Its credit risk management procedures include:

credit evaluation and approval;

credit review and monitoring; and

credit risk assessment and control

Each of Shinhan Bank's borrowers is assigned a credit rating, which is based on a comprehensive internal credit evaluation system that considers a variety of criteria. For retail borrowers, the credit rating takes into account the borrower's past dealings with Shinhan Bank and external credit rating information, among others. For corporate borrowers, the credit rating takes into account financial indicators as well as non-financial indicators such as industry risk, operational risk and management risk, among others. The credit rating, once assigned, serves as the fundamental instrument in Shinhan Bank's credit risk management, and is applied in a wide range of credit risk management processes, including credit approval, credit limit management, loan pricing and computation of credit loss allowance. Shinhan Bank has separate credit evaluation systems for retail customers, SOHO customers and corporate customers, which are further segmented and refined to meet Basel III requirements.

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(In millions of won)

4. Financial risk management (continued)

Loans are generally approved after evaluations and approvals by the manager at the branch level as well as the committee of the applicable business unit at Shinhan Bank. The approval limit for retail loans is made based on Shinhan Bank's automated credit scoring system. In the case of large corporate loans, approval limits are also reviewed and approved by a Credit Officer at the headquarter level. Depending on the size and the importance of the loan, the approval process is further reviewed by the Credit Officer Committee or the Master Credit Officer Committee. If the loan is considered, further evaluation is made by the Credit Review Committee, which is Shinhan Bank's highest decision-making body in relation to credit approval.

Pursuant to the foregoing credit review and monitoring procedures and in order to promptly prevent deterioration of loan qualities, Shinhan Bank classifies potentially problematic borrowers into (i) borrowers that show early warning signals, (ii) borrowers that require close monitoring and (iii) normal borrowers, and treats them differentially accordingly.

In order to maintain portfolio-level credit risk at an appropriate level, Shinhan Bank manages its loans using value-at-risk (VaR) limits for the entire bank as well as for each of its business units. In order to prevent concentration of risk in a particular borrower or borrower class, Shinhan Bank also manages credit risk by borrower, industry, country and other detailed categories.

Credit Risk Management of Shinhan Card

Major policies for Shinhan Card's credit risk management are determined by Shinhan Card's Risk Management Council and Shinhan Card's Risk Management Committee is responsible for approving them. Shinhan Card's Risk Management Council is headed by the Chief Risk Officer, and also comprises of the heads of each business unit, supporting unit and relevant department at Shinhan Card. In order to separate credit policy decision-making from credit evaluation functions, Shinhan Card also has a Risk Management Committee, which evaluates applications for corporate loans exceeding a certain amount and other loans deemed important. Shinhan Card uses an automated credit scoring system to approve credit card applications or credit card authorizations. The credit scoring system is divided into two sub-systems: the application scoring system and the behaviour scoring system. The behaviour scoring system is based largely on the credit history, and the application scoring system is based largely on personal information of the applicant. For credit card applicants with whom the Shinhan Card has an existing relationship, Shinhan Card's credit scoring system considers internally gathered information such as repayment ability, total assets, the length of the existing relationship and the applicant's contribution to profitability. The credit scoring system also automatically conducts credit checks on all credit card applicants.

If a credit score awarded to an applicant is above a minimum threshold, the application is approved unless overridden based on other considerations such as delinquencies with other credit card companies.

Shinhan Card continually monitors all accountholders and accounts using a behaviour scoring system. The behaviour scoring system predicts a cardholder's payment pattern by evaluating the cardholder's credit history, card usage and amounts, payment status and other relevant data. The behaviour score is recalculated each month and is used to manage the accounts and approval of additional loans and other products to the cardholder. Shinhan Card also uses the scoring system to monitor its overall risk exposure and to modify its credit risk management strategy.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)*i) Techniques, assumptions and input variables used to measure impairment**i-1) Determining significant increases in credit risk since initial recognition*

At each reporting date, the Group assesses whether the credit risk on a financial instrument has increased significantly since initial recognition. When making the assessment, the Group uses the change in the risk of a default occurring over the expected life of the financial instrument instead of the change in the amount of expected credit losses. To make that assessment, the Group compares the risk of a default occurring on the financial instrument as at the reporting date with the risk of a default occurring on the financial instrument as at the date of initial recognition and consider reasonable and supportable information, that is available without undue cost or effort, that is indicative of significant increases in credit risk since initial recognition.

i-1-1) Measuring the risk of default

The Group assigns an internal credit risk rating to each individual exposure based on observable data and historical experiences that have been found to have a reasonable correlation with the risk of default. The internal credit risk rating is determined by considering both qualitative and quantitative factors that indicate the risk of default, which may vary depending on the nature of the exposure and the type of borrower.

i-1-2) Measuring term structure of probability of default

The Group accumulates information after analyzing the information regarding exposure to credit risk and default information by the type of product and borrower and results of internal credit risk assessment. For some portfolios, the Group uses information obtained from external credit rating agencies when performing these analyses. The Group applies statistical techniques to estimate the probability of default for the remaining life of the exposure from the accumulated data and to estimate changes in the estimated probability of default over time.

i-1-3) Significant increases in credit risk

The Group uses the indicators defined as per portfolio to determine the significant increase in credit risk and such indicators generally consist of changes in the risk of default estimated from changes in the internal credit risk rating, qualitative factors, days of delinquency, and others. The method used to determine whether credit risk of financial instruments has significantly increased after the initial recognitions is summarized as follows:

Corporate exposures**Retail exposures****Card exposures**

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Significant change in credit ratings	Significant change in credit ratings	Significant change in credit ratings
Continued past due more than 30 days	Continued past due more than 30 days	Continued past due more than 7 days (personal card)
Loan classification of and below precautionary	Loan classification of and below precautionary	Loan classification of and below precautionary
Borrower with early warning signals	Borrower with early warning signals	Specific pool segment

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

Corporate exposures	Retail exposures	Card exposures
Negative net assets	Specific pool segment	
Adverse audit opinion or disclaimer of opinion	Loans relating to constructor whose collective loans are insolvent	
Interest coverage ratios of below 1 for consecutive three years		
Negative cash flows from operating activities for consecutive two years		

The Group considers the credit risk of financial instrument has been significantly increased since initial recognition if a specific exposure is past due more than 30 days (however, for a specific portfolio if it is past due more than 7 days). The Group counts the number of days past due from the earliest date on which the Group has not fully received the contractual payments from the borrower and does not consider the grace period granted to the borrower.

The Group regularly reviews the criteria for determining if there have been significant increases in credit risk from the following perspective.

A significant increase in credit risk shall be identified prior to the occurrence of default.

The criteria established to judge the significant increase in credit risk shall have a more predictive power than the criteria for days of delinquency.

As a result of applying the judgment criteria, financial instruments shall not be to move too frequently between the 12-months expected credit losses measurement and the lifetime expected credit losses measurement.

i-2) Modified financial assets

If the contractual cash flows on a financial asset have been renegotiated or modified and the financial asset was not derecognized, the Group assesses whether there has been a significant increase in the credit risk of the financial instrument by comparing the risk of a default occurring at initial recognition based on the original, unmodified contractual terms and the risk of a default occurring at the reporting date based on the modified contractual terms.

The Group may adjust the contractual cash flows of loans to customers who are in financial difficulties in order to manage the risk of default and enhance the collectability (hereinafter referred to as debt restructuring). These adjustments generally involve extension of maturity, changes in interest payment schedule, and changes in other contractual terms.

Debt restructuring is a qualitative indicator of a significant increase in credit risk and the Group recognizes lifetime expected credit losses for the exposure expected to be the subject of such adjustments. If a borrower faithfully makes payments of contractual cash flows that were modified in accordance with the debt restructuring or if the borrower's internal credit rating has recovered to the level prior to the recognition of the lifetime expected credit losses, the Group recognizes the 12-months expected credit losses for that exposure again.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

i-3) Risk of default

The Group considers a financial asset to be in default if it meets one or more of the following conditions:

If a borrower is overdue 90 days or more from the contractual payment date,

If the Group judges that it is not possible to recover principal and interest without enforcing the collateral on a financial asset

The Group uses the following indicators when determining whether a borrower is in default:

Qualitative factors (e.g. breach of contract terms),

Quantitative factors (e.g. if the same borrower does not perform more than one payment obligations to the Group, the number of days past due per payment obligation. However, in the case of a specific portfolio, the Group uses the number of days past due for each financial instrument)

Internal data and external data

The definition of default applied by the Group generally conforms to the definition of default defined for regulatory capital management purposes; however, depending on the situations, the information used to determine whether a default has incurred and the extent thereof may vary.

i-4) Reflection of forward-looking information

The Group reflects forward-looking information presented by internal experts based on a variety of information when measuring expected credit losses. For the purpose of estimating these forward-looking information, the Group utilizes the economic outlook published by domestic and overseas research institutes or government and public agencies.

The Group reflects future macroeconomic conditions anticipated from a neutral standpoint that is free from bias in measuring expected credit losses. Expected credit losses in this respect reflect conditions that are most likely to occur and are based on the same assumptions that the Group used in its business plan and management strategy.

The Group identified the key macroeconomic variables needed to forecast credit risk and credit losses for each portfolio as follows by analyzing past experience data and drew correlations across credit risk for each variable.

Key macroeconomic variables	Correlation with credit risk
Economic growth	Negative
Consumer price index	Negative
Benchmark rate	Positive
10-year Korea Treasury Bond	Positive
3-year Corporate Bond	Positive
KOSPI	Negative

The predicted correlations between the macroeconomic variables and the risk of default, used by the Group, were derived based on data from the past nine years.

i-5) Measurement of expected credit losses

Key variables used in measuring expected credit losses are as follows:

Probability of default (PD)

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

Loss given default (LGD)

Exposure at default (EAD)

These variables have been estimated from historical experience data by using the statistical techniques developed internally by the Group and have been adjusted to reflect forward-looking information.

Estimates of PD over a specified period are estimated by reflecting characteristics of counterparties and their exposure, based on a statistical model at a specific point of time. The Group uses its own information to develop a statistical credit assessment model used for the estimation, and additional information observed in the market is considered for some portfolios such as a group of large corporates. When a counterparty or exposure is concentrated in specific grades, the method of measuring PD for that grades would be adjusted, and the PD by grade is estimated by considering contract expiration of the exposure.

LGD refers to the expected loss if a borrower defaults. The Group calculates LGD based on the experience recovery rate measured from past default exposures. The model for measuring LGD is developed to reflect type of collateral, seniority of collateral, type of borrower, and cost of recovery. In particular, LGD for retail loan products uses loan to value (LTV) as a key variable. The recovery rate reflected in the LGD calculation is based on the present value of recovery amount, discounted at the effective interest rate.

EAD refers to the expected exposure at the time of default. The Group derives EAD reflecting a rate at which the current exposure is expected to be used additionally up to the point of default within the contractual limit. EAD of financial assets is equal to the total carrying amount of the asset, and EAD of loan commitments or financial guarantee contracts is calculated as the sum of the amount expected to be used in the future.

When measuring expected credit losses on financial assets, the Group reflects a period of expected credit loss measurement based on a contractual maturity. The Group takes into consideration of the extension rights held by a borrower when deciding the contractual maturity.

Risk factors of PD, LGD and EAD are collectively estimated according to the following criteria:

Type of products

Internal credit risk rating

Type of collateral

Loan to value (LTV)

Industry that the borrower belongs to

Location of the borrower or collateral

Days of delinquency

The criteria classifying groups is periodically reviewed to maintain homogeneity of the group and adjusted if necessary. The Group uses external benchmark information to supplement internal information for a particular portfolio that did not have sufficient internal data accumulated from the past experience.

i-6) Write-off of financial assets

The Group writes off a portion of or entire loan or debt security that is not expected to receive its principal and interest. In general, the Group conducts write-off when it is deemed that the borrower has no sufficient

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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4. Financial risk management (continued)

resources or income to repay the principal and interest. Such determination on write-off is carried out in accordance with the internal rules of the Group and is carried out with the approval of an external institution, if necessary. Apart from write-off, the Group may continue to exercise its right of collection under its own recovery policy even after the write-off of financial assets.

ii) Maximum exposure to credit risk

Exposure to credit risk is the exposure related to due from banks, loans, investments in debt securities, derivative transactions, off-balance sheet accounts such as loan commitment. The exposures of due from banks and loans were classified into government, bank, corporation, or retail based on the exposure classification criteria of BASEL III credit risk weights.

The Group's maximum exposure to credit risk without taking into account of any collateral held or other credit enhancements as of December 31, 2017 and December 31, 2018 are as follows:

	2017
Due from banks and loans (*1)(*3):	
Banks	₩ 13,373,140
Retail	124,868,554
Government	14,442,747
Corporations	123,637,882
Card receivable	20,119,514
	296,441,837
Trading assets	23,829,943
Financial assets designated at FVTPL	2,344,701
AFS financial assets	37,186,552
HTM financial assets	24,990,680
Derivative assets	3,400,178
Other financial assets (*1)(*2)	12,041,304
Financial guarantee contracts	3,267,707
Loan commitments and other credit liabilities	139,264,031
	₩ 542,766,933

- (*1) The maximum exposure amounts for due from banks, loans and other financial assets are recorded as net of allowances.
- (*2) Other financial assets mainly comprise brokerage, securities and spot transaction related receivables, accrued interest receivables, secured key money deposits and domestic exchange settlement debit settled in a day.
- (*3) Due from banks and loans were classified as similar credit risk group when calculating the BIS ratio under new Basel Capital Accord (Basel III).

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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4. Financial risk management (continued)

	2018
Due from banks and loans at amortized cost (*1)(*3):	
Banks	₩ 17,935,816
Retail	136,499,558
Government	6,517,215
Corporations	131,795,992
Card receivable	21,592,287
	314,340,868
Deposits and loans at FVTPL (*1)(*3)	
Bank	890,660
Corporations	1,189,190
	2,079,850
Securities at FVTPL	40,289,846
Securities measured at fair value OCI	37,677,646
Securities measured at amortized cost	28,478,136
Derivative assets	1,793,613
Other financial assets (*1)(*2)	16,837,141
Financial guarantee contracts	4,413,874
Loan commitments and other credit liabilities	165,399,937
	₩611,310,911

(*1) The maximum exposure amounts for due from banks, loans and other financial assets at amortized cost are recorded as net of allowances.

(*2) Other financial assets mainly comprise brokerage, securities and spot transaction related receivables, accrued interest receivables, secured key money deposits and domestic exchange settlement debit settled in a day.

(*3) Due from banks and loans were classified as similar credit risk group when calculating the BIS ratio under new Basel Capital Accord (Basel III).

iii) The maximum amount of exposure to credit risk by type of collateral of held financial instruments as of December 31, 2018 is as follows:

Classification	12 months		Life time expected credit loss		Total
	Expected credit loss	Not recognized	Recognized		
Guarantee	₩ 13,608,254	3,870,047	61,623	17,539,924	
Deposits and Savings	1,016,391	241,567	1,379	1,259,337	
Property and equipment	1,051,573	244,571	18,766	1,314,910	
Real estate	119,174,347	13,856,638	281,943	133,312,928	
Securities	3,460,263	105,397		3,565,660	
Other	2,593,792	28	218	2,594,038	
Total	₩ 140,904,620	18,318,248	363,929	159,586,797	

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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4. Financial risk management (continued)*iv) Impairment information by credit risk of financial assets*

Credit loss allowances of financial assets as of December 31, 2018 are as follows:

	12-month expected credit loss		Life time expected credit loss			Total	Allowances	Net	Mitigation of credit due collateral
	Grade 1 (*1)	Grade 2 (*1)	Grade 1 (*1)	Grade 2 (*1)	Impaired				
from and loans ortized									
	₩ 16,873,064	980,673	94,866	11,493		17,960,096	(24,280)	17,935,816	5
	122,318,451	6,122,202	4,991,709	3,103,779	402,975	136,939,116	(439,558)	136,499,558	81,21
ment	6,474,219	2,399	45,871			6,522,489	(5,274)	6,517,215	1
erations	82,476,923	28,445,914	9,800,260	11,659,375	882,394	133,264,866	(1,468,874)	131,795,992	74,06
receivable	16,129,536	2,022,525	1,791,147	2,039,390	411,595	22,394,193	(801,906)	21,592,287	
	244,272,193	37,573,713	16,723,853	16,814,037	1,696,964	317,080,760	(2,739,892)	314,340,868	155,36
ties at lue h other prehensive e (*2)	30,705,879	6,865,937		105,830		37,677,646		37,677,646	
ties at zed cost	27,661,749	803,174	22,474			28,487,397	(9,261)	28,478,136	
g balance	₩ 302,639,821	45,242,824	16,746,327	16,919,867	1,696,964	383,245,803	(2,749,153)	380,496,650	155,36

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4. Financial risk management (continued)

(*1) Credit quality of due from banks and loans was classified based on the internal credit rating as follows:

Type of Borrower	Grade 1	Grade 2
Banks and governments	OECD sovereign credit rating of 6 or above (as applied to the nationality of the banks and governments)	OECD sovereign credit rating of below 6 (as applied to the nationality of the banks and governments)
Retail	Pool of retail loans with probability of default of less than 2.25%	Pool of retail loans with probability of default of 2.25% or more
Corporations	Internal credit rating of BBB+ or above	Internal credit rating of below BBB+ (Probability of default for loans with internal credit rating of BBB is 2.25%)
Credit cards	For individual card holders, score of 7 or higher in Shinhan Card's internal behavior scoring system For corporate cardholders, same as corporate loans	For individual card holders, score of below 7 in Shinhan Card's internal behavior scoring system For corporate cardholders, same as corporate loans

(*2) Provision for credit loss allowance for securities at fair value through other comprehensive income amounted to ₩26,084 million.

Credit quality of due from banks and loans that are neither past due nor impaired as of December 31, 2017 are as follows:

	2017					
	Banks	Retail	Government	Corporations	Card	Total
Grade 1 (*3)	₩ 13,382,414	116,304,917	14,447,016	86,831,895	16,314,189	247,280,431
Grade 2 (*3)	7,857	8,056,563		36,835,347	3,473,826	48,373,593

	13,390,271	124,361,480	14,447,016	123,667,242	19,788,015	295,654,024
Less: allowance (collective)	(17,131)	(212,502)	(4,269)	(647,694)	(288,362)	(1,169,958)
	₩ 13,373,140	124,148,978	14,442,747	123,019,548	19,499,653	294,484,066
Mitigation of credit risk						
due to collateral (*2) ₩	96,835	80,354,889		64,018,607	6,358	144,476,689

(*1) Credit quality of deposits and loans is classified according to internal credit rating.

(*2) The credit risk mitigation effect of the collateral was estimated based on the fair value of the collateral.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

4. Financial risk management (continued)

(*3) Credit quality of due from banks and loans was classified based on the internal credit rating as follows:

Type of Borrower	Grade 1	Grade 2
Banks and governments	OECD sovereign credit rating of 6 or above (as applied to the nationality of the banks and governments)	OECD sovereign credit rating of below 6 (as applied to the nationality of the banks and governments)
Retail	Pool of retail loans with probability of default of less than 2.25%	Pool of retail loans with probability of default of 2.25% or more
Corporations	Internal credit rating of BBB+ or above	Internal credit rating of below BBB+ (Probability of default for loans with internal credit rating of BBB is 2.25%)
Credit cards	For individual card holders, score of 7 or higher in Shinhan Card's internal behavior scoring system For corporate cardholders, same as corporate loans	For individual card holders, score of below 7 in Shinhan Card's internal behavior scoring system For corporate cardholders, same as corporate loans

Aging analyses of due from banks and loans that are past due but not impaired as of December 31, 2017 are as follows:

	2017					
	Banks	Retail	Government	Corporations	Card	Total
Less than 30 days	₩	458,968		131,624	446,658	1,037,250
30 days ~ less than 60 days		65,152		33,749	58,283	157,184
60 days ~ less than 90 days		42,427		16,972	37,972	97,371
90 days or more		15,430		11,787	390	27,607
		581,977		194,132	543,303	1,319,412

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Less: allowance		(56,774)	(8,898)	(81,990)	(147,662)
	₩	525,203	185,234	461,313	1,171,750
Mitigation of credit risk due to collateral	₩	325,631	94,388	90	420,109

Due from banks and loans that are impaired as of December 31, 2017 are as follows:

	2017				
	Banks	Retail	Government Corporations	Card	Total
Impaired	₩	362,707	1,010,036	420,316	1,793,059
Less: allowance		(168,334)	(576,936)	(261,768)	(1,007,038)
	₩	194,373	433,100	158,548	786,021
Mitigation of credit risk due to collateral	₩	128,906	384,815	12	513,733

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)*v) Credit risk exposures per credit grade of off-balance items*

Credit risk exposures per credit grade of off-balance items as of December 31, 2018 are as follows:

		2018		
	Grade 1 (*1)	Grade 2 (*1)	Impaired	Total
Financial guarantee:				
12-month expected credit loss	₩ 2,137,695	1,975,877		4,113,572
Life time expected credit loss	146,236	152,277		298,513
Impaired			1,789	1,789
	2,283,931	2,128,154	1,789	4,413,874
Loan commitment and other credit line:				
12-month expected credit loss	137,920,323	19,044,745		156,965,068
Life time expected credit loss	6,636,365	1,787,965		8,424,330
Impaired			10,539	10,539
	144,556,688	20,832,710	10,539	165,399,937
	₩ 146,840,619	22,960,864	12,328	169,813,811

(*1) Grade 1: BBB+ or above per internal credit rating

Grade 2: Below BBB+ per internal credit rating

vi) Credit ratings of debt securities

Credit ratings of debt securities as of December 31, 2017 are as follows:

	2017					Total
	Trading assets	Financial assets designated at FVTPL	Available for-sale financial assets	Held-to-maturity financial assets		
AAA	₩ 8,837,093	630,247	23,949,843	20,057,480	53,474,663	
AA- to AA+	5,193,659	589,193	5,582,125	3,956,290	15,321,267	
A- to A+	5,442,892	792,715	4,300,764	444,711	10,981,082	
BBB- to BBB+	1,614,012	252,258	1,508,224	166,906	3,541,400	
Lower than BBB-	275,200		435,651	177,840	888,691	
Unrated	2,277,790	80,288	1,409,945	187,453	3,955,476	
	₩ 23,640,646	2,344,701	37,186,552	24,990,680	88,162,579	

The credit quality of securities (debt securities) according to the credit ratings by external rating agencies is as follows:

Internal credit ratings	KIS (*1)	KR (*2)	S&P	Fitch	Moody s
AAA			AAA	AAA	Aaa
AA- to AA+	AAA	AAA	AA- to AA+	AA- to AA+	Aa3 to Aa1
A- to A+	AA- to AA+	AA- to AA+	A- to A+	A- to A+	A3 to A1
BBB- to BBB+	BBB- to A	BBB- to A	BBB- to BBB+	BBB- to BBB+	Baa3 to Baa1
Lower than BBB-	Lower than BBB-	Lower than BBB-	Lower than BBB-	Lower than BBB-	Lower than Baa3
Unrated	Unrated	Unrated	Unrated	Unrated	Unrated

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

(*1) KIS: Korea Investors Service

(*2) KR: Korea Ratings

Credit status of debt securities as of December 31, 2017 are as follows:

	2017
Neither past due nor impaired	₩ 88,160,626
Impaired	1,953
	₩ 88,162,579

Credit quality of derivative assets as of December 31, 2017 and 2018 are as follows:

	2017	2018
Grade 1 (*1)(*2)	₩ 3,290,638	1,687,005
Grade 2 (*1)(*2)	109,540	106,608
	₩ 3,400,178	1,793,613

(*1) Credit qualities of derivative assets were classified based on the internal credit ratings of counterparties.

(*2) Grade 1: Internal credit rating of BBB+ or above, Grade 2: Internal credit rating of below BBB+

vii) Concentration by geographic location

An analysis of concentration by geographic location for financial instrument, net of allowance, as of December 31, 2017 and 2018 are as follows:

	2017								
	Korea	USA	England	Japan	Germany	Vietnam	China	Other	Total
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Due from banks and loans:										
Banks	₩	6,315,655	1,186,576	205,705	268,533	144,382	583,094	3,420,223	1,248,972	13,373,140
Retail		119,993,323	346,746	3,811	2,695,890	2,057	745,725	615,079	465,923	124,868,554
Government Corporations		12,887,534	130,553		388,142	134,011	35,786	664,030	202,691	14,442,747
Card		110,025,699	2,371,400	175,038	2,169,445	73,998	1,613,022	2,530,507	4,678,773	123,637,882
		20,002,457	7,434	282	2,208	174	76,608	16,806	13,545	20,119,514
		269,224,668	4,042,709	384,836	5,524,218	354,622	3,054,235	7,246,645	6,609,904	296,441,837
Trading assets										
		23,294,062	235,474	189,297	985	8,704	5,074	60,037	36,310	23,829,943
Financial assets designated at FVTPL										
		2,262,222	82,479							2,344,701
AFS financial assets										
		34,323,438	1,242,570	14,517	163,652	32,148	474,134	510,678	425,415	37,186,552
HTM financial assets										
		22,458,896	1,466,037		34,487		237,641	37,096	756,523	24,990,680
	₩	351,563,286	7,069,269	588,650	5,723,342	395,474	3,771,084	7,854,456	7,828,152	384,793,713

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

4. Financial risk management (continued)

					2018					
	Korea	USA	England	Japan	Germany	Vietnam	China	Other	Total	
Due from banks and loans at amortized cost:										
Banks	₩ 8,996,272	1,712,675	462,540	640,895	213,399	947,315	3,221,442	1,741,278	17,935,816	
Retail	130,034,683	359,668	4,432	3,440,623	2,151	1,031,299	974,568	652,134	136,499,558	
Government Corporations	4,257,877	499,742		750,676	108,667	182,822	546,597	170,834	6,517,215	
Card	116,621,693	2,707,273	109,295	2,578,989	96,468	1,846,470	2,621,744	5,214,060	131,795,992	
	21,453,128	8,435	301	2,107	208	92,992	20,785	14,331	21,592,287	
	281,363,653	5,287,793	576,568	7,413,290	420,893	4,100,898	7,385,136	7,792,637	314,340,868	
Deposits and loans at FVTPL:										
Bank	186,465	704,195							890,660	
Corporations	1,189,190								1,189,190	
	1,375,655	704,195							2,079,850	
Securities measured at FVTPL	38,782,201	973,716	163,658	28,062	11,507	20,740	104,853	205,109	40,289,846	
Securities at FVOCI	34,667,702	1,209,756	21,749	197,234	46,417	392,668	616,143	525,977	37,677,646	
Securities at amortized cost	26,053,245	1,048,909		68,594		360,953	34,923	911,512	28,478,136	
	₩ 382,242,456	9,224,369	761,975	7,707,180	478,817	4,875,259	8,141,055	9,435,235	422,866,346	

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)*viii) Concentration by industry sector*

An analysis of concentration by industry sector of financial instrument, net of allowance, as of December 31, 2017 and 2018 are as follows:

	2017								Total
	Finance and insurance	Manu- facturing	Retail and wholesale	Real estate and service	Construction service	Hotel and food service	Other	Retail customers	
From banks and ins at ortized t:									
Banks	₩ 11,094,855	1,592		56,744			2,219,949		13,373,140
Retail								124,868,554	124,868,554
Government	13,381,461	1,314					1,059,972		14,442,747
Corporations	5,474,353	40,364,768	16,563,849	23,005,675	2,880,851	2,413,929	32,934,457		123,637,882
Card									
Reivable	41,825	295,290	140,117	37,801	38,580	12,257	395,145	19,158,499	20,119,564
	29,992,494	40,662,964	16,703,966	23,100,220	2,919,431	2,426,186	36,609,523	144,027,053	296,441,877
Ending									
Assets	17,183,669	1,139,609	1,206,133	176,273	112,409	71,656	3,940,194		23,829,943
Financial									
net									
Designated at									
fair value									
through									
profit or loss	1,201,464	202,906	36,112	45,178	27,678		831,363		2,344,701
FS									
Financial									
Assets	23,384,608	1,409,017	227,289	632,410	348,269		11,184,959		37,186,552
MM	5,975,448	48,981		785,859	557,591		17,622,801		24,990,680
Financial									

ets

₩77,737,683 43,463,477 18,173,500 24,739,940 3,965,378 2,497,842 70,188,840 144,027,053 384,793,7

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

4. Financial risk management (continued)

	2018								
	Finance and insurance	Manu- facturing	Retail and wholesale	Real estate and service	Construction service	Hotel and food service	Other	Retail customers	Total
from and at ized	₩ 17,579,099	2,219		300			354,198		17,933,608
								136,499,558	136,499,558
ment	6,385,776			2,795			128,644		6,517,215
rations	8,456,599	43,957,565	17,420,532	27,009,286	3,272,406	5,610,146	26,066,753	2,705	131,795,931
able	36,343	210,324	169,070	43,236	42,209	23,506	20,968,820	98,779	21,593,417
	32,457,817	44,170,108	17,589,602	27,055,617	3,314,615	5,633,652	47,518,415	136,601,042	314,349,038
bits and at L:	870,656			20,004					890,660
rations	554,832	213,715	209,631	2,593	1,621	900	205,898		1,188,580
	1,425,488	213,715	209,631	22,597	1,621	900	205,898		2,079,840
ties red at L	25,067,491	1,646,132	1,185,571	342,124	208,455	60,829	11,779,244		40,289,846
ties at CI	22,436,768	1,695,624	302,789	480,979	480,585		12,280,901		37,677,646
ties at ized	6,634,975	99,437		775,580	595,334		20,372,810		28,478,136
	₩ 88,022,539	47,825,016	19,287,593	28,676,897	4,600,610	5,695,381	92,157,268	136,601,042	422,865,346

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

4. Financial risk management (continued)

(c) Market risk

Market risk from trading positions is the risk that changes in market prices, such as foreign exchange rates, interest rates and equity prices will affect the Group's income or the value of its holdings of financial instruments.

Interest rate risk from non-trading positions is the risk of loss resulting from interest rate fluctuations that adversely affect the financial condition and results of operations of the Group and affects the earnings and the economic value of net assets of the Group.

Foreign exchange risk arises from the Group's assets and liabilities which are denominated in currencies other than Korean won.

The Group's market risks arise primarily from Shinhan Bank, and to a lesser extent, Shinhan Investment, which incurs market risk relating to its trading activities.

Shinhan Bank's Risk Policy Committee acts as the executive decision making body in relation to market risks setting the risk management policies and risk limits and controlling market risks arising from trading and non-trading activities. In addition, Shinhan Bank's Risk Management Department comprehensively manages market risks on an independent basis from Shinhan Bank's operating departments, and functions as the middle office of Shinhan Bank.

Shinhan Investment's Risk Management Working Committee is the executive decision-making body for managing market risks related to Shinhan Investment, and determines, among other things, Shinhan Investment's overall market risk management policies and strategies, and assesses and approves trading activities and limits. In addition, Shinhan Investment's Risk Management Department manages various market risk limits and monitors operating conditions on an independent basis from Shinhan Investment's operating departments.

i) Market risk management from trading positions

Trading activities are to realize short-term trading profits in debt and stock markets and foreign exchange markets based on short-term forecast of changes in market situation and profits from arbitrage transactions in derivatives such as swap, forward, futures and option transactions. The Group manages market risk related to its trading positions using VaR, market value-based tool.

Shinhan Bank currently ten-day 99.9% confidence level-based VaR for purposes of calculating its economic capital used for internal management purposes, which is a concept used in determining the amount of Shinhan Bank's requisite capital in light of the market risk. Shinhan Bank manages VaR measurements and limits on a daily basis based on an automatic interfacing of its trading positions into its market risk measurement system. In addition, Shinhan Bank establishes pre-set loss, sensitivity, investment and stress limits for its trading departments and desks

and monitors such limits daily.

Shinhan Investment currently uses the ten-day 99.9% confidence level-based historical VaR for purposes of calculating its economic capital used for internal management purposes. When computing the VaR, Shinhan Investment does not assume any particular probability distribution and calculates it through a simulation of the full valuation method based on changes of market variables such as stock prices, interest rates, and foreign exchange rates in the past one year. In addition, Shinhan Investment applies this VaR as a risk limit for the entire company as well as individual departments and products, and the adequacy of such VaR is reviewed by way of daily back-testing.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

4. Financial risk management (continued)

An analysis of the Group's requisite capital in light of the market risk for trading positions as of and for the years ended December 31, 2017 and 2018 based on the standard guidelines for risk management promulgated by the Financial Supervisory Service, was as follows:

	2017			
	Average	Maximum	Minimum	December 31
Interest rate	₩ 431,065	463,340	414,689	415,139
Stock price	186,652	225,553	157,730	199,041
Foreign exchange	113,208	121,041	105,823	121,041
Commodity	11,395	22,366	4,562	4,562
Option volatility	10,405	12,599	7,809	12,599
	₩ 752,725	844,899	690,613	752,382

	2018			
	Average	Maximum	Minimum	December 31
Interest rate	₩ 425,235	453,644	403,195	453,644
Stock price	201,408	227,167	143,238	143,238
Foreign exchange	143,202	174,702	124,292	139,617
Commodity	6,250	9,026	4,501	6,343
Option volatility	34,334	56,834	22,045	56,834
	₩ 810,429	921,373	697,271	799,676

i-1) Shinhan Bank

The analyses of the ten-day 99.9% confidence level-based VaR for managing market risk for trading positions of Shinhan Bank as of and for the years ended December 31, 2017 and 2018 are as follows:

	2017		
	Average	Maximum	Minimum
			December 31

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Interest rate	₩ 38,370	50,206	22,226	25,071
Stock price	4,051	5,622	3,040	4,675
Foreign exchange (*)	43,827	46,108	41,562	41,947
Option volatility	70	124	43	66
Commodity	22	46		14
Portfolio diversification				(26,367)
	₩ 49,943	56,103	42,031	45,406

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

4. Financial risk management (continued)

	2018			
	Average	Maximum	Minimum	December 31
Interest rate	₩ 22,559	29,748	16,194	18,797
Stock price	12,118	25,701	1,976	22,212
Foreign exchange (*)	39,282	45,738	34,162	34,294
Option volatility	131	511	30	261
Commodity	17	61		24
Portfolio diversification				(21,298)
	₩ 43,957	57,462	38,026	54,290

(*) Both trading and non-trading accounts are included since Shinhan Bank manages foreign exchange risk on a total position basis.

i-2) Shinhan Card

The analyses of Shinhan Card's requisite capital in light of the market risk for trading positions as of and for the years ended December 31 2017, and 2018, based on the standard guidelines for risk management promulgated by the Financial Supervisory Service, are as follows:

	2017			
	Average	Maximum	Minimum	December 31
Interest rate	₩ 1,809	2,550	1,050	1,800

	2018			
	Average	Maximum	Minimum	December 31
Interest rate	₩ 1,257	1,972	768	1,269

(*) The subsidiaries that are located overseas are excluded from the calculation.

i-3) Shinhan Investment

The analyses of the ten-day 99.9% confidence level-based VaR for managing market risk for trading positions of Shinhan Investment as of and for the years ended December 31, 2017 and 2018 are as follows:

	2017			December 31
	Average	Maximum	Minimum	
Interest rate	₩ 9,939	18,090	7,329	11,232
Stock price	12,015	22,496	7,068	10,830
Foreign exchange	7,140	12,604	2,760	5,506
Option volatility	3,404	4,536	2,710	3,216
Portfolio diversification				(9,583)
	₩ 22,221	34,564	12,980	21,201

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

4. Financial risk management (continued)

	2018			
	Average	Maximum	Minimum	December 31
Interest rate	₩ 7,563	14,314	3,656	7,321
Stock price	64,107	103,846	6,202	43,748
Foreign exchange	5,992	13,798	154	154
Option volatility	9,200	31,810	2,195	31,810
Portfolio diversification				(1,375)
	₩ 74,821	128,261	11,174	81,658

i-4) Shinhan Life Insurance

The analyses of the ten-day 99.9% confidence level-based VaR for managing market risk for trading positions of Shinhan Life Insurance as of and for the year ended December 31, 2017 and 2018 are as follows:

	2017			
	Average	Maximum	Minimum	December 31
Interest rate	₩ 3,838	16,598	85	3,848
Stock price	1,195	3,368		3,178
Foreign exchange	1,213	3,569	3	1,924
Option volatility	5,083	7,423	2,777	3,809
	₩ 11,329	30,958	2,865	12,759

	2018			
	Average	Maximum	Minimum	December 31
Interest rate	₩ 2,994	6,410	260	293
Stock price	4,084	4,933	2,030	4,793
Foreign exchange	1,111	2,825	40	352
Option volatility	824	4,916	89	106
	₩ 9,013	19,084	2,419	5,544

ii) *Interest rate risk management from non-trading positions*

Principal market risk from non-trading activities of the Group is interest rate risk, which affects the Group's earnings and the economic value of the Group's net assets:

Earnings: interest rate fluctuations have an effect on the Group's net interest income by affecting its interest-sensitive operating income and expenses and EaR (Earnings at Risk) is a commonly used risk management technique.

Economic value of net assets: interest rate fluctuations influence the Group's net worth by affecting the present value of cash flows from the assets, liabilities and other transactions of the Group and VaR is a commonly used risk management technique.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

Interest rate VaR represents the maximum anticipated loss in a net present value calculation, whereas interest rate EaR represents the maximum anticipated loss in a net earnings calculation for the immediately following one-year period, in each case, as a result of negative movements in interest rates. Accordingly, the Group measures and manages interest rate risk for non-trading activities by taking into account effects of interest rate changes on both its income and net asset value.

The principal objectives of Shinhan Bank's interest rate risk management are to generate stable net interest income and to protect Shinhan Bank's net asset value against interest rate fluctuations. Through its asset and liability management system, Shinhan Bank measures and manages its interest rate risk based on various analytical measures such as interest rate gap, duration gap and net present value and net interest income simulations, and monitors on a monthly basis its interest rate VaR limits, interest rate earnings at risk (EaR) limits and interest rate gap ratio limits. Shinhan Bank measures its interest rate VaR and interest rate EaR based on a simulated estimation of the maximum decrease in net asset value and net interest income in a one-year period based on various scenario analyses of historical interest rates.

Shinhan Card and Shinhan Life Insurance also monitors and manages its interest rate risk limits for all its interest-bearing assets and liabilities (including off-balance sheet items) in terms of impact on its earnings and net asset value from changes in interest rates. The interest rate VaR analysis used by Shinhan Card and Shinhan Life Insurance principally focuses on the maximum impact on its net asset value from adverse movement in interest rates.

Non-trading positions for interest rate VaR and EaR as of December 31, 2017 and 2018 are as follows:

ii-1) Shinhan Bank

	2017	2018
VaR (*1)	₩ 293,355	164,393
EaR (*2)	174,262	316,718

ii-2) Shinhan Card

	2017	2018
VaR (*1)	₩ 147,932	163,804
EaR (*2)	32,081	28,267

ii-3) Shinhan Investment

	2017	2018
VaR (*1)	₩ 44,505	31,274
EaR (*2)	108,866	112,093

ii-4) Shinhan Life Insurance

	2017	2018
VaR (*1)	₩ 319,689	442,008
EaR (*2)	70,434	61,942

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

(*1) The interest rate VaR represents the maximum anticipated loss in a net asset value in one year under confidence level of 99.9% and is measured by the internal model with one year look-back period.

(*2) The interest rate EaR was calculated by the Financial Supervisory Service regulations based on the middle of time band and interest shocks by 200 basis points for each time bucket as recommended under the Basel Accord.

iii) Foreign exchange risk

Exposure to foreign exchange risk can be defined as the difference (net position) between assets and liabilities presented in foreign currency, including derivative financial instruments linked to foreign exchange rate. Foreign exchange risk is a factor that causes market risk of the trading position and is managed by the Group under the market risk management system.

The management of Shinhan Bank's foreign exchange position is centralized at the FX & Derivatives Department. Dealers in the FX & Derivatives Department manage Shinhan Bank's overall position within the set limits through spot trading, forward contracts, currency options, futures and swaps and foreign exchange swaps. Shinhan Bank sets a limit for net open positions by currency and the limits for currencies other than the U.S. dollars, Japanese yen, Euros and Chinese yuan are set in order to minimize exposures from the other foreign exchange trading.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

4. Financial risk management (continued)

Foreign currency denominated assets and liabilities as of December 31, 2017 and 2018 are as follows:

		2017					
	USD	JPY	EUR	CNY	Other	Total	
Assets:							
Cash and due from banks	₩ 3,589,642	983,260	324,246	1,940,542	1,652,631	8,490,321	
Trading assets	1,911,537	6,314	181,023		233,924	2,332,798	
Financial assets designated at FVTPL	884,946				197	885,143	
Derivative assets	74,083	4	766	203	1,455	76,511	
Loans	14,967,502	5,741,854	1,196,346	2,774,264	5,059,707	29,739,673	
AFS financial assets	2,725,039	113,239	52,583	395,150	666,486	3,952,497	
HTM financial assets	1,513,025	137,100		37,096	1,000,064	2,687,285	
Other financial assets	1,646,688	288,243	154,853	458,166	289,715	2,837,665	
	₩ 27,312,462	7,270,014	1,909,817	5,605,421	8,904,179	51,001,893	
Liabilities:							
Deposits	₩ 12,367,273	6,307,142	759,380	4,289,224	4,930,479	28,653,498	
Trading liabilities	2,602				434,586	437,188	
Financial liabilities designated at FVTPL	983,382					983,382	
Derivative liabilities	105,141	195	631	4,734	713	111,414	
Borrowings	5,385,706	294,000	231,539	407,678	68,988	6,387,911	
Debt securities issued	4,913,896	249,616	31,981	196,380	1,018,628	6,410,501	
Other financial liabilities	2,612,191	208,516	208,665	472,207	278,181	3,779,760	
	₩ 26,370,191	7,059,469	1,232,196	5,370,223	6,731,575	46,763,654	
Net assets	₩ 942,271	210,545	677,621	235,198	2,172,604	4,238,239	
Off-balance derivative exposure	130,976	6,094	(586,904)	80,183	(623,648)	(993,299)	
Net position	₩ 1,073,247	216,639	90,717	315,381	1,548,956	3,244,940	

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

4. Financial risk management (continued)

	2018					
	USD	JPY	EUR	CNY	Other	Total
Assets:						
Cash and due from banks at amortized cost	₩ 4,797,714	1,216,221	259,631	1,595,799	1,654,668	9,524,033
Due from banks at FVTPL	704,195					704,195
Loan receivables measured at FVTPL	347,966	3,430	4,127			355,523
Loan at amortized cost	16,301,367	6,862,146	1,275,174	3,496,937	5,934,670	33,870,294
Securities at FVTPL	3,812,541	998	81,300		313,750	4,208,589
Derivative assets	133,197	285	2,299	406	11,875	148,062
Securities at FVOCI	3,209,293	125,512		357,682	728,456	4,420,943
Securities at amortized cost	1,405,775	128,512		34,955	1,175,733	2,744,975
Other financial assets	2,958,609	135,984	70,321	456,405	357,856	3,979,175
	₩ 33,670,657	8,473,088	1,692,852	5,942,184	10,177,008	59,955,789
Liabilities:						
Deposits	₩ 13,333,500	7,217,318	727,291	4,565,067	5,232,529	31,075,705
Financial liabilities at FVTPL	4,389				458,934	463,323
Derivative liabilities	172,556		1,914	2,089	4,892	181,451
Borrowings	6,287,797	446,102	280,949	395,719	173,731	7,584,298
Debt securities issued	6,517,415	317,125	293,708		1,715,780	8,844,028
Financial liabilities designated at FVTPL	1,168,024					1,168,024
Other financial liabilities	2,684,717	192,161	125,434	573,544	548,754	4,124,610
	₩ 30,168,398	8,172,706	1,429,296	5,536,419	8,134,620	53,441,439
Net assets	₩ 3,502,259	300,382	263,556	405,765	2,042,388	6,514,350
Off-balance derivative exposure	(2,056,586)	(157,445)	(217,232)	(34,986)	(164,797)	(2,631,046)
Net position	₩ 1,445,673	142,937	46,324	370,779	1,877,591	3,883,304

(d) Liquidity risk

Liquidity risk is the risk that the Group will encounter difficulty in meeting the obligations associated with its financial liabilities that are settled by delivering cash or another financial asset.

Each subsidiary seeks to minimize liquidity risk through early detection of risk factors related to the sourcing and managing of funding that may cause volatility in liquidity and by ensuring that it maintains an appropriate level of liquidity through systematic management. At the group level, the Group manages liquidity risk by conducting monthly stress tests that compare liquidity requirements under normal situations against those under three types of stress situations, namely, the group-specific internal crisis, crisis in the external market and a combination of internal and external crisis. In addition, in order to preemptively and comprehensively manage liquidity risk, the Group measure and monitor liquidity risk management using various indices, including the limit management index , early warning index and monitoring index .

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

Shinhan Bank applies the following basic principles for liquidity risk management:

raise funding in sufficient amounts, at the optimal time at reasonable costs;

maintain risk at appropriate levels and preemptively manage them through a prescribed risk limit system and an early warning signal detection system;

secure stable sources of revenue and minimize actual losses by implementing an effective asset-liability management system based on diversified sources of funding with varying maturities;

monitor and manage daily and intra-daily liquidity positions and risk exposures for timely payment and settlement of financial obligations due under both normal and crisis situations;

conduct periodic contingency analysis in anticipation of any potential liquidity crisis and establish and implement emergency plans in case of a crisis actually happening; and

consider liquidity-related costs, benefits of and risks in determining the pricing of the Group's products and services, employee performance evaluations and approval of launching of new products and services.

As for any potential liquidity shortage at or near the end of each month, Shinhan Card maintains liquidity at a level sufficient to withstand credit shortage for three months. In addition, Shinhan Card manages liquidity risk by defining and managing various indicators of liquidity risk, such as the actual liquidity gap ratio (in relation to the different maturities for assets as compared to liabilities), the liquidity buffer ratio, the maturity repayment ratio, the ratio of actual funding compared to budgeted funding and the ratio of asset-backed securities to total borrowings, at different risk levels of caution, unstable and at risk, and the Group also has contingency plans in place in case of any emergency or crisis.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

4. Financial risk management (continued)

Contractual maturities for financial instruments including cash flows of principal and interest and off balance as of December 31, 2017 and 2018 are as follows:

	Less than 1 month	1~3 months	3~6 months	2017 6 months ~ 1 year	1~5 years	More than 5 years	Total
Non-derivative financial instruments:							
Assets:							
Cash and due from banks	₩ 19,576,010	868,907	945,027	1,290,451	8,320	49,767	22,738,482
Trading assets (*3)	27,327,076	627,936	247,905	54,631	183,577	31,862	28,472,987
Financial assets designated at fair value through profit or loss	2,819,112	35,001	91,487	20,097	364,898	248,609	3,579,204
Loans	29,831,671	34,176,546	43,120,328	63,496,597	76,247,244	59,983,675	306,856,061
Available-for-sale financial assets (*3)	37,273,740	352,098	20,013	2,472,184	408,106	1,598,529	42,124,670
Held-to-maturity financial assets	153,833	178,514	309,115	1,672,095	15,018,937	14,954,247	32,286,741
Other financial assets	10,457,000	13,915	22,999	401,431	1,151,508	104,097	12,150,950
	₩ 127,438,442	36,252,917	44,756,874	69,407,486	93,382,590	76,970,786	448,209,095
Liabilities:							
Deposits (*2)	₩ 130,916,019	21,725,284	31,482,983	52,440,287	16,137,734	1,940,194	254,642,501
Trading liabilities (*3)	1,848,490						1,848,490
Financial liabilities	303,065	324,807	548,868	916,388	5,106,209	1,098,518	8,297,855

designated at fair
value through
profit or loss

Borrowings	15,286,424	2,543,847	1,655,662	2,823,721	3,658,670	1,844,417	27,812,741
Debt securities issued	2,261,028	3,717,185	3,651,503	10,565,098	30,391,156	4,224,471	54,810,441
Other financial liabilities	19,387,718	42,948	137,810	335,104	363,245	59,188	20,326,013
	₩ 170,002,744	28,354,071	37,476,826	67,080,598	55,657,014	9,166,788	367,738,041

Off balance (*4):

Finance guarantee contracts	₩ 3,267,707						3,267,707
Loan commitments and other	140,675,467						140,675,467
	₩ 143,943,174						143,943,174

Derivatives:

Cash inflows	₩ 3,735,274	790,313	829,659	1,411,010	2,684,189	143,032	9,593,477
Cash outflows	(3,324,459)	(498,396)	(727,887)	(1,321,939)	(2,594,372)	(60,717)	(8,527,770)
	₩ 410,815	291,917	101,772	89,071	89,817	82,315	1,065,707

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

4. Financial risk management (continued)

	Less than 1 month	1~3 months	3~6 months	2018 6 months ~ 1 year	1~5 years	More than 5 years	Total
Non-derivative financial instruments:							
Assets:							
Cash and due from banks at amortized cost	₩ 14,451,366	796,510	905,259	1,196,790	1,526	57,259	17,408,710
Due from banks at fair value through profit or loss	115,476	131,712	518,109	105,359	6,053		876,709
Loans at fair value through profit or loss	290,724	388,218	42,550	201,591	257,873	48,982	1,229,938
Loans at amortized cost	34,025,588	34,254,065	45,151,571	68,239,781	87,760,434	66,889,553	336,320,992
Securities at fair value through profit or loss	36,043,891	41,287	35,677	403,849	1,572,268	3,351,681	41,448,653
Securities at fair value through other comprehensive income	37,519,813	12,093	5,145	20,291	255,091	507,920	38,320,353
Securities at amortized cost	505,417	1,378,525	481,193	2,270,447	15,067,164	16,896,833	36,599,579
Other financial assets	15,130,599	5,629	19,173	433,060	92,753	1,215,953	16,897,167
	₩ 138,082,874	37,008,039	47,158,677	72,871,168	105,013,162	88,968,181	489,102,101
Liabilities:							
Deposits (*2)	₩ 123,166,403	24,736,962	34,096,334	56,060,670	28,316,319	2,880,197	269,256,885

Financial liabilities at fair value through profit or loss	1,402,726	193	53	10,403	10,124		1,423,499
Borrowings	13,542,317	2,879,693	2,207,560	2,965,132	5,854,335	2,553,162	30,002,199
Debt securities issued	3,779,407	5,433,266	5,633,286	10,468,221	36,694,200	5,291,240	67,299,620
Financial liabilities designated at fair value through profit or loss	332,249	303,996	171,927	1,061,443	5,552,824	1,113,361	8,535,800
Other financial liabilities	19,423,802	22,744	110,883	146,256	432,277	71,318	20,207,280
	₩ 161,646,904	33,376,854	42,220,043	70,712,125	76,860,079	11,909,278	396,725,283
Off balance (*4):							
Finance guarantee contracts	₩ 4,413,874						4,413,874
Loan commitments and other	166,498,542						166,498,542
	₩ 170,912,416						170,912,416
Derivatives:							
Cash inflows	₩ 2,402,504	585,267	814,009	1,110,368	6,223,707	6,746,091	17,881,946
Cash outflows	(2,854,430)	(591,008)	(840,579)	(1,116,920)	(6,261,239)	(6,756,747)	(18,420,923)
	₩ (451,926)	(5,741)	(26,570)	(6,552)	(37,532)	(10,656)	(538,977)

(*1) These amounts include cash flows of principal and interest on financial assets and financial liabilities.

(*2) Demand deposits amounting to ₩102,928,642 million and ₩106,160,833 million as of December 31, 2017 and December 31, 2018 are included in the Less than 1 month category, respectively.

(*3) Short-term financial instruments that are valued at market prices are classified as the shortest within one month.

(*4) Financial guarantees such as financial guarantee contracts and loan commitments and others provided by the Group are classified based on the earliest date at which the Group should fulfill the obligation under the guarantee when the counterparty requests payment.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

(e) Measurement of fair value

The fair values of financial instruments being traded in an active market are determined by the published market prices of each period end. The published market prices of financial instruments being held by the Group are based on the trading agencies' notifications. If the market for a financial instrument is not active, such as OTC (Over The Counter market) derivatives, fair value is determined either by using a valuation technique or independent third-party valuation service.

The Group uses various valuation techniques and is setting rational assumptions based on the present market situations. Such valuation techniques may include using recent arm's length market transactions between knowledgeable, willing parties, if available, reference to the current fair value of another instrument that is substantially the same, discounted cash flow analysis and option pricing models.

The Group classifies and discloses fair value of financial instruments into the following three-level hierarchy:

Level 1: Financial instruments measured at quoted prices from active markets are classified as fair value level 1.

Level 2: Financial instruments measured using valuation techniques where all significant inputs are observable market data are classified as level 2.

Level 3: Financial instruments measured using valuation techniques where one or more significant inputs are not based on observable market data are classified as level 3.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

4. Financial risk management (continued)*i) Financial instruments measured at fair value*

The fair value hierarchy of financial instruments presented at their fair values in the statements of financial position as of December 31, 2017 and 2018 are as follows:

	2017			
	Level 1	Level 2	Level 3	Total
Financial assets				
Trading assets:				
Debt securities	₩ 5,897,898	17,479,033	263,715	23,640,646
Equity securities	1,350,888	2,872,437	411,028	4,634,353
Gold deposits	189,297			189,297
Financial assets designated at fair value through profit or loss:				
Debt securities and others	569,259	1,509,023	266,419	2,344,701
Equity securities	3,475	948,705	282,176	1,234,356
Derivative assets:				
Trading	31,858	2,955,377	293,540	3,280,775
Hedging		117,603	1,800	119,403
Available-for-sale financial assets:				
Debt securities	10,493,483	26,286,175	406,894	37,186,552
Equity securities	427,227	613,616	3,889,542	4,930,385
	₩ 18,963,385	52,781,969	5,815,114	77,560,468
Financial liabilities:				
Trading liabilities:				
Securities sold	₩ 1,413,904			1,413,904
Gold deposits	434,586			434,586
Financial liabilities designated at fair value through profit or loss:				
Securities sold	36,973			36,973
Derivatives-combined securities		986,882	7,273,754	8,260,636
Derivative liabilities:				

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Trading	20,738	2,706,249	77,847	2,804,834
Hedging		257,665	425,162	682,827
	₩ 1,906,201	3,950,796	7,776,763	13,633,760

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

		2018			
	Level 1	Level 2	Level 3	Total	
Financial assets					
Due from banks measured at FVTPL	₩		57,236	813,420	870,656
Loan receivables measured at FVTPL			891,636	317,558	1,209,194
Financial assets at FVTPL:					
Debt securities and other securities	5,084,767	29,552,429	5,497,769		40,134,965
Equity securities	528,113	143,139	493,818		1,165,070
Gold deposits	154,881				154,881
Derivative assets:					
Trading	62,275	1,548,769	116,277		1,727,321
Hedging		61,706	4,586		66,292
Securities measured at FVOCI:					
Debt securities	10,532,244	27,095,555	49,846		37,677,645
Equity securities	135,866		500,659		636,525
	₩ 16,498,146	59,350,470	7,793,933		83,642,549
Financial liabilities:					
Financial liabilities measured at FVTPL:					
Securities sold	₩	961,372			961,372
Gold deposits		458,934			458,934
Financial liabilities designated at fair value through profit or loss:					
Derivatives-combined securities		1,702,063	6,833,737		8,535,800
Derivative liabilities:					
Trading		116,160	1,444,545	285,965	1,846,670
Hedging			232,102	361,120	593,222
	₩ 1,536,466	3,378,710	7,480,822		12,395,998

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

Changes in carrying values of financial instruments classified as Level 3 for the years ended December 31, 2017 and 2018 are as follows:

	2017				
	Trading assets	Financial assets designated at FVTPL	Available-for-sale financial assets	Derivative assets and liabilities, net	Financial liabilities designated at FVTPL
Beginning balance	₩ 82,477	614,039	3,883,441	(492,136)	(7,574,327)
Recognized in total comprehensive income for the year:					
Recognized in profit (loss) for the year (*1)	41,127	(9,202)	(200,701)	634,438	(913,760)
Recognized in other comprehensive income (loss) for the year			(3,149)		
	41,127	(9,202)	(203,850)	634,438	(913,760)
Purchase	589,144	210,856	1,150,904	29,333	
Issue				4,541	(8,710,656)
Settlement	(139,562)	(267,098)	(565,146)	(383,873)	9,924,989
Transfer in (*2)	101,557		31,087	28	
Transfer out (*2)					
Ending balance	₩ 674,743	548,595	4,296,436	(207,669)	(7,273,754)

	2018				
	Financial asset at fair value through profit or loss	Financial asset designated at fair value through profit or loss	Securities at fair value through other comprehensive	Derivative assets and liabilities, net	Financial liabilities designated at fair value through profit or loss

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			profit or loss		
Beginning balance	₩ 5,831,369	152,091	621,207	(250,662)	(7,273,754)
Recognized in total comprehensive income for the year:					
Recognized in profit (loss) for the year (*1)	359,160	3,390	4,692	(128,816)	10,090
Recognized in other comprehensive income (loss) for the year			29,388		235
	359,160	3,390	34,080	(128,816)	10,325
Purchase	2,143,853		2,510	2,236	
Issue					(7,127,670)
Settlement	(1,212,202)	(155,481)	(107,292)	(148,987)	7,557,362
Transfer in (*2)	1,370			6	
Transfer out (*2)	(985)				
Ending balance	₩ 7,122,565		550,505	(526,223)	(6,833,737)

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

4. Financial risk management (continued)

(*1) Recognized profit or loss of the changes in carrying value of financial instruments classified as Level 3 for the years ended December 31, 2017 and 2018 are included in the accounts of the statements of comprehensive income, of which the amounts and the related accounts are as follows:

	Amounts recognized in profit or loss	2017 Recognized profit or loss from the financial instruments held as of December 31
Trading income	₩ 843,657	121,643
Loss on financial instruments designated at FVTPL	(922,962)	(129,654)
Gain on disposal of available-for-sale financial assets	17,193	977
Impairment losses on financial assets	(180,206)	(180,206)
Other operating expenses	(205,780)	(216,135)
	₩ (448,098)	(403,375)

	Amounts recognized in profit or loss	2018 Recognized profit or loss from the financial instruments held as of December 31
Net gain (loss) on financial assets at fair value through profit or loss	₩ 179,658	(14,586)
Net gain on financial assets designated at fair value through profit or loss	10,090	392,096
Net gain on securities at fair value through other comprehensive income	2,575	
Reversal of (provision for) credit loss allowance	17	(28)
Other operating expenses	56,176	57,317
	₩ 248,516	434,799

(*2) Changes in levels for the financial instruments occurred due to the change in the availability of observable market data. The Group reviews the levels of financial instruments as of the end of the reporting period considering the related events and circumstances in the reporting period.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

Valuation techniques and inputs used in measuring the fair value of financial instruments classified as level 2 as of December 31, 2018 are as follows:

Type of financial instrument	Valuation technique	Carrying Value	Significant inputs
Assets			
Financial asset at fair value through profit or loss			
Debt securities	DCF (*1),	₩ 30,501,301	Discount rate
Equity securities	NAV (*2)	143,139	Price of underlying assets
		30,644,440	
Derivative assets			
Trading	Option model,		Discount rate, foreign exchange rate, volatility, stock price, commodity index, etc.
	DCF (*1)	1,548,769	
Hedging		61,706	
		1,610,475	
Securities at fair value through other comprehensive income	DCF (*1),	27,095,555	Discount rate, foreign exchange rate, volatility, stock price, commodity index, etc.
		₩ 59,350,470	
Liabilities			
Financial liabilities designated at fair value through profit or loss			
Derivative liabilities	DCF (*1)	₩ 1,702,063	Discount rate
Trading	Option model,		Discount rate, foreign exchange rate, volatility, stock price, commodity index, etc.
	DCF (*1)	1,444,545	
Hedging		232,102	

1,676,647

₩ 3,378,710

(*1) DCF: Discounted cash flow

(*2) NAV: Net asset value

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(In millions of won)

4. Financial risk management (continued)

Valuation techniques and significant inputs, but not observable, used in measuring the fair value of financial instruments classified as level 3 as of December 31, 2018 are as follows:

Type of financial instrument	Valuation technique	Carrying value (*2)	Significant unobservable inputs	Range
Financial assets				
Financial asset at fair value through profit or loss				
Debt securities				
			The volatility of the underlying asset Correlations	16.39%~42.56%
	DCF, Option model (*1)	₩6,628,747		1.26%~39.45%
				0.00%
Equity securities				
	DCF, NAV	493,818	The volatility of the underlying asset Correlations	5.80%~41.00%
				0.00%~74.00%
		7,122,565		
Derivative assets				
Equity and foreign exchange related				
	Option model (*1)	43,183	The volatility of the underlying asset Correlations	2.20%~38.00%
Interest rates related				
			The volatility of the underlying asset Regression coefficient	0.00%~1.00%
	Option model (*1)	44,848	Correlations	0.42%~1.65%
Credit and commodity related				
	Option model (*1)	32,832	The volatility of the underlying asset Correlations	44.93%~91.00%
				1.00%~33.00%
				33.00%~67.00%
		120,863		
Securities at fair value through other comprehensive income				
Debt securities				
	DCF	49,846	Discount rate	8.43%~17.40%

Equity securities	NAV	500,659	Growth rate	0.00%~3.00%
		550,505		
		₩7,793,933		

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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4. Financial risk management (continued)

Type of financial instrument	Valuation technique	Carrying Type value (*2)	Significant unobservable inputs	Range
Financial liabilities				
Financial liabilities designated at fair value through profit or loss				
Equity related				
	Option model (*1)	₩6,833,737	The volatility of the underlying asset Correlations	0.00%~107.00% -42.00%~93%
Derivative liabilities				
Equity and foreign exchange related				
	Option model (*1)	199,504	The volatility of the underlying asset Correlations	2.20%~98.00% -3.00%~82.00%
Interest rates related				
	Option model (*1)		The volatility of the underlying asset	0.00%~33.00%
			Regression coefficient	0.42%~2.77%
		374,976	Correlations	28.15%~91.00%
Credit and commodity related				
	Option model (*1)	72,605	The volatility of the underlying asset Correlations	1.00%~107.00% -20.00%~93.00%
		647,085		
		₩7,480,822		

(*1) Option model that the Group uses in derivative valuation includes Black-Scholes model, Hull-White model, Monte Carlo simulation, etc.

(*2) There is no disclosure for valuation techniques and input variables related to items where the carrying amount is recognized as a reasonable approximation of fair value and the carrying amount is disclosed at fair value.

Sensitivity analysis for fair value measurements in Level 3

Although the Group believes that its estimates of fair value are appropriate, the use of different methodologies or assumptions could lead to different measurements of fair value.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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4. Financial risk management (continued)

For level 3 fair value measurement, changing one or more of the unobservable inputs used to reasonably possible alternative assumptions would have the following effects on profit or loss, or other comprehensive income as of December 31, 2017 and 2018.

	2017	
	Favorable changes	Unfavorable changes
Financial assets:		
Effects on profit or loss for the period (*1):		
Trading assets	₩ 2,792	(2,742)
Financial assets designated at fair value through profit or loss	1,843	(1,941)
Derivative assets	29,059	(28,077)
	33,694	(32,760)
Effects on other comprehensive income for the period:		
Available-for-sale financial assets (*2)	39,460	(25,505)
	₩ 73,154	(58,265)
Financial liabilities:		
Effects on profit or loss for the period (*1):		
Financial liabilities designated at fair value through profit or loss	₩ 72,063	(56,754)
Derivative liabilities	32,770	(33,343)
	₩ 104,833	(90,097)
2018		
	Favorable changes	Unfavorable changes
Financial assets:		
Effects on profit or loss for the period (*1):		
Financial asset at fair value through profit or loss	₩ 45,760	(20,662)
Derivative assets	28,115	(27,201)

	73,875	(47,863)
Effects on other comprehensive income for the period:		
Securities at fair value through other comprehensive income (*2)	23,885	(17,231)
	₩ 97,760	(65,094)
Financial liabilities:		
Effects on profit or loss for the period (*1):		
Financial liabilities designated at fair value through profit or loss	₩ 112,212	(131,080)
Derivative liabilities	103,938	(88,348)
	₩ 216,150	(219,428)

(*1) Fair value changes are calculated by increasing or decreasing the volatility of the underlying asset (-10~10%) or correlations (-10~10%).

(*2) Fair value changes are calculated by increasing or decreasing discount rate (-1~1%) or growth rate (0~1%).

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)*ii) Financial instruments measured at amortized cost*

The method of measuring the fair value of financial instruments measured at amortized cost is as follows:

Type	Measurement methods of fair value
Cash and due from banks	The carrying amount and the fair value for cash are identical and most of deposits are floating interest rate deposits or next day deposits of a short-term instrument. For this reason, the carrying value approximates fair value.
Loans	The fair value of the loans is measured by discounting the expected cash flow at the market interest rate and credit risk.
Securities measured at amortized cost	The minimum price between the Korea Asset Pricing s valuation, and KIS Pricing s is used as a fair value.
Deposits and borrowings	The carrying amount and the fair value for demand deposits, cash management account deposits, call money as short-term instrument are identical. The fair value of others is measured by discounting the contractual cash flow at the market interest rate that takes into account the residual risk.
Debt securities issued	Where available, the fair value of deposits and borrowings is based on the published price quotations in an active market. In case there is no data for an active market price, it is measured by discounting the contractual cash flow at the market interest rate that takes into account the residual risk.

The carrying value and the fair value of financial instruments measured at amortized cost as of December 31, 2017 and 2018 are as follows:

	2017	
	Carrying value	Fair value

Assets:		
Loans	₩ 275,565,766	275,988,557
Held-to-maturity financial assets	24,990,680	25,390,335
Other financial assets	12,041,304	12,038,310
	₩ 312,597,750	313,417,202
Liabilities:		
Deposits	₩ 249,419,224	249,333,154
Borrowings	27,586,610	27,596,841
Debt securities issued	51,340,821	51,277,693
Other financial liabilities	20,205,312	20,179,542
	₩ 348,551,967	348,387,230

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

	2017			
	Level 1	Level 2	Level 3	Total
Assets:				
Loans	₩ 3,065	845,567	275,139,925	275,988,557
Held-to-maturity financial assets	7,851,134	17,539,201		25,390,335
Other financial assets	79,889	6,832,567	5,125,854	12,038,310
	₩ 7,934,088	25,217,335	280,265,779	313,417,202
Liabilities:				
Deposits	₩ 2,922,841	105,939,876	140,470,437	249,333,154
Borrowings	5,958,846	566,718	21,071,277	27,596,841
Debt securities issued in won		33,622,407	17,655,286	51,277,693
Other financial liabilities	84,665	5,642,143	14,452,734	20,179,542
	₩ 8,966,352	145,771,144	193,649,734	348,387,230

	2018	
	Carrying value	Fair value
Assets:		
Deposits measured at amortized cost	₩ 14,471,988	14,471,920
Loans measured at amortized cost	299,609,472	302,089,329
Securities measured at amortized cost	28,478,136	29,676,691
Other financial assets	16,837,141	16,859,986
	₩ 359,396,737	363,097,926
Liabilities:		
Deposits	₩ 265,000,190	264,986,928
Borrowings	29,818,542	29,898,645
Debt securities issued	63,227,699	63,506,309
Other financial liabilities	20,545,181	20,233,920
	₩ 378,591,612	378,625,802

	2018			
	Level 1	Level 2	Level 3	Total
Assets:				
Deposits measured at amortized cost	₩ 3,105,588	10,587,086	779,246	14,471,920
Loans measured at amortized cost	590	2,498,193	299,590,546	302,089,329
Securities measured at amortized cost	8,607,060	20,986,587	83,044	29,676,691
Other financial assets	74,625	11,606,369	5,178,992	16,859,986
	₩ 11,787,863	45,678,235	305,631,828	363,097,926
Liabilities:				
Deposits	₩ 2,801,700	109,083,014	153,102,214	264,986,928
Borrowings	5,708,217	1,084,036	23,106,392	29,898,645
Debt securities issued		41,894,406	21,611,903	63,506,309
Other financial liabilities	74,638	6,630,725	13,528,557	20,233,920
	₩ 8,584,555	158,692,181	211,349,066	378,625,802

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

4. Financial risk management (continued)

For financial instruments not measured at fair value in the statement of financial position but for which the fair value is disclosed, information on valuation technique and inputs used in measuring fair value of financial instruments classified as level 2 or level 3 at December 31, 2017 and 2018 are as follows:

	Fair value (*2)	2017 Valuation technique	Inputs
Financial instruments classified as level 2:			
Assets			
Loans	₩ 845,567	DCF (*1)	Discount rate, credit spread, prepayment rate
Held-to-maturity financial assets	17,539,201	DCF (*1)	Discount rate
Other financial assets	6,832,567	DCF (*1)	Discount rate
	₩ 25,217,335		
Liabilities			
Deposits	₩ 105,939,876	DCF (*1)	Discount rate
Borrowings	566,718	DCF (*1)	Discount rate
Debt securities issued	33,622,407	DCF (*1)	Discount rate
Other financial liabilities	5,642,143	DCF (*1)	Discount rate
	₩ 145,771,144		
Financial instruments classified as level 3:			
Assets			
Loans	₩ 275,139,925	DCF (*1)	Discount rate, credit spread, prepayment rate
Other financial assets	5,125,854	DCF (*1)	Discount rate
	₩ 280,265,779		
Liabilities			
Deposits	₩ 140,470,437	DCF (*1)	Discount rate
Borrowings	21,071,277	DCF (*1)	Discount rate
Debt securities issued	17,655,286	DCF (*1)	Discount rate,

			regression coefficient,
			correlation coefficient
Other financial liabilities	14,452,734	DCF (*1)	Discount rate
	₩ 193,649,734		

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

4. Financial risk management (continued)

	Fair value (*2)	2018 Valuation technique	Inputs
Financial instruments classified as level 2:			
Assets			
Due from banks measured at amortized cost	₩ 10,587,086	DCF (*1)	Discount rate
Loans measured at amortized cost	2,498,193	DCF (*1)	Discount rate, credit spread, prepayment rate
Securities measured at amortized cost	20,986,587	DCF (*1)	Discount rate
Other financial assets	11,606,369	DCF (*1)	Discount rate
	₩ 45,678,235		
Liabilities			
Deposits	₩ 109,083,014	DCF (*1)	Discount rate
Borrowings	1,084,036	DCF (*1)	Discount rate
Debt securities issued	41,894,406	DCF (*1)	Discount rate
Other financial liabilities	6,630,725	DCF (*1)	Discount rate
	₩ 158,692,181		
Financial instruments classified as level 3:			
Assets			
Due from banks measured at amortized cost	₩ 779,246	DCF (*1)	Discount rate
Loans measured at amortized cost	299,590,546	DCF (*1)	Discount rate, credit spread, prepayment rate
Securities measured at amortized cost	83,044	DCF (*1)	Discount rate
Other financial assets	5,178,992	DCF (*1)	Discount rate
	₩ 305,631,828		
Liabilities			
Deposits	₩ 153,102,214	DCF (*1)	Discount rate
Borrowings	23,106,392	DCF (*1)	Discount rate
Debt securities issued	21,611,903	DCF (*1)	Discount rate,

			regression coefficient,
			correlation coefficient
Other financial liabilities	13,528,557	DCF (*1)	Discount rate
	₩ 211,349,066		

(*1) DCF: discounted cash flow

(*2) Valuation techniques and inputs are not disclosed when the carrying amount is a reasonable approximation of fair value

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

iii) Changes in the difference between the fair value at initial recognition (the transaction price) and the value using models with unobservable inputs for the years ended December 31, 2017 and 2018

	2017	2018
Beginning balance	₩ (89,695)	(137,393)
Deferral on new transactions	(108,832)	(91,625)
Recognized in profit for the year	66,063	102,907
Ending balance	₩ (132,464)	(126,111)

(f) Classification by categories of financial instruments

Financial assets and liabilities are measured at fair value or amortized cost. The financial instruments measured at fair value or amortized costs are measured in accordance with the Group's valuation methodologies, which are described in Note 4.(e) Measurement of fair value.

The carrying amounts of each category of financial assets and financial liabilities as December 31, 2017 and 2018 are as follows:

	2017						
	Trading assets	FVTPL assets	AFS	HTM	Loans and receivable	Derivatives held for hedging	Total
Assets:							
Cash and due from banks	₩				22,668,598		22,668,598
Trading assets	28,464,296						28,464,296
Financial assets designated at FVTPL		3,579,057					3,579,057
Derivatives	3,280,775					119,403	3,400,178

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Loans				275,565,766		275,565,766	
AFS financial assets		42,116,937				42,116,937	
HTM financial assets			24,990,680			24,990,680	
Other				12,041,304		12,041,304	
	₩ 31,745,071	3,579,057	42,116,937	24,990,680	310,275,668	119,403	412,826,816

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

	Trading liabilities	FVTPL liabilities	2017 Financial liabilities measured at amortized cost	Derivatives held for hedging	Total
Liabilities:					
Deposits	₩		249,419,224		249,419,224
Trading liabilities	1,848,490				1,848,490
Financial liabilities designated at FVTPL		8,297,609			8,297,609
Derivatives	2,804,834			682,827	3,487,661
Borrowings			27,586,610		27,586,610
Debt securities issued			51,340,821		51,340,821
Other			20,205,312		20,205,312
	₩ 4,653,324	8,297,609	348,551,967	682,827	362,185,727

	FVTPL	FVOCI	2018 Amortized cost	Derivatives held for hedging	Total
Assets:					
Cash and due from banks at amortized cost	₩		17,348,626		17,348,626
Due from banks at fair value through profit or loss	870,656				870,656
Securities at fair value through profit or loss	41,454,916				41,454,916
Loans at fair value through profit or loss	1,209,194				1,209,194
Derivatives	1,727,321			66,292	1,793,613
Securities at fair value through other comprehensive income		38,314,170			38,314,170
Securities at amortized cost			28,478,136		28,478,136

Loans at amortized cost			299,609,472		299,609,472
Other			16,837,141		16,837,141
	₩ 45,262,087	38,314,170	362,273,375	66,292	445,915,924

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

4. Financial risk management (continued)

	FVTPL	FVTPL liabilities designated	2018 Financial liabilities measured at amortized cost	Derivatives held for hedging	Total
Liabilities:					
Deposits	₩		265,000,190		265,000,190
Financial liabilities at fair value through profit or loss	1,420,306				1,420,306
Financial liabilities designated at FVTPL		8,535,800			8,535,800
Derivatives	1,846,669			593,223	2,439,892
Borrowings			29,818,542		29,818,542
Debt securities issued			63,227,699		63,227,699
Other			20,545,181		20,545,181
	₩ 3,266,975	8,535,800	378,591,612	593,223	390,987,610

(g) Transfer of financial instruments*i) Transfers that do not qualify for derecognition*

Bonds sold under repurchase agreements as of December 31, 2017 and 2018 are as follows:

	2017	2018
Transferred asset:		
Financial assets at fair value through profit or loss	₩ 7,688,025	
Available-for-sale financial assets	1,240,063	
Held-to-maturity financial assets	615,352	
Loans	51,900	
Securities at FVTPL		6,711,060
Securities at FVOCI		688,593

Securities at amortized cost		156,066
Loans at FVTPL		
Loans at amortized cost		
	₩ 9,595,340	7,555,719
Associated liabilities:		
Bonds sold under repurchase agreements	₩ 9,057,138	7,167,364

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

Securities loaned as of December 31, 2017 and 2018 are as follows:

	2017	2018	Borrowers
Government bonds	₩495,737	1,216,381	Korea Securities Finance Corp., Korea Securities Depository and others
Financial institutions bonds	319,581	409,831	Korea Securities Finance Corp., Korea Securities Depository
Equity securities	34,870	6,029	Korea Securities Finance Corp.
	₩850,188	1,632,241	

ii) Financial instruments qualified for derecognition and continued involvement

There was no financial instruments which qualify for derecognition and in which the Group has continuing involvements as of December 31, 2017, and 2018.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)**(h) Offsetting financial assets and financial liabilities**

Financial assets and liabilities subject to offsetting, enforceable master netting arrangements and similar agreements as of December 31, 2017 and 2018 are as follows:

	2017		2017				
	Gross amounts of recognized financial assets/liabilities	Gross amounts of recognized financial liabilities set off in the statement of financial position	Net amounts of financial assets presented in the statement of financial position	Related amounts not set off in the statement of financial position	Financial instruments	Cash collateral received	Net amount
Assets:							
Derivatives (*1)	₩ 3,219,982		3,219,982				
Other financial instruments (*1)	5,911,577	1,535,615	4,375,962	5,626,795	318,813		1,650,336
Bonds purchased under repurchase agreements (*2)	12,861,514		12,861,514	12,312,131			549,383
Securities loaned (*2)	850,188		850,188	633,407			216,781
Domestic exchange settlement debit (*3)	33,367,006	30,367,425	2,999,581	79,882			2,919,699
Receivables from disposal of securities (*4)	15,568	1,152	14,416				14,416
Insurance receivables	6,807		6,807	3,376			3,431
	₩ 56,232,642	31,904,192	24,328,450	18,655,591	318,813		5,354,046
Liabilities:							
Derivatives (*1)	₩ 12,625,941		12,625,941				
Other financial instruments (*1)	5,195,260	1,535,615	3,659,645	6,378,052			9,907,534
Bonds purchased under repurchase	9,057,138		9,057,138	9,057,138			

agreements (*2)					
Securities borrowed (*2)	1,450,877		1,450,877	1,450,877	
Domestic exchange settlement pending (*3)	32,202,236	30,367,425	1,834,811	1,763,331	71,480
Payable from purchase of securities (*4)	1,519	1,152	367	326	41
Insurance payables	3,376		3,376	3,376	
	₩ 60,536,347	31,904,192	28,632,155	18,653,100	9,979,055

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

	2018		Related amounts not set off in the statement of financial position			
	Gross amounts of recognized assets/liabilities	Gross amounts of recognized financial liabilities set off in the statement of financial position	Net amounts of financial assets presented in the statement of financial position	Financial instruments	Cash collateral received	Net amount
Assets:						
Derivatives (*1)	₩ 1,730,828		1,730,828			
Other financial instruments (*1)	7,476,505	1,268,779	6,207,726	6,746,640	26,638	1,165,276
Bonds purchased under repurchase agreements (*2)	12,945,380		12,945,380	12,557,025		388,355
Securities loaned (*2)	1,827,066		1,827,066	1,246,157		580,909
Domestic exchange settlement debit (*3)	32,647,367	26,502,611	6,144,756	74,552		6,070,204
Receivables from disposal of securities (*4)	22,906	519	22,387			22,387
Insurance receivables	8,014		8,014	4,872		3,142
	₩ 56,658,066	27,771,909	28,886,157	20,629,246	26,638	8,230,273
Liabilities:						
Derivatives (*1)	₩ 11,858,108		11,858,108			
Other financial instruments (*1)	6,594,979	1,268,779	5,326,200	7,850,210		9,334,098
Bonds purchased under repurchase agreements (*2)	7,170,744		7,170,744	7,170,744		
Securities borrowed (*2)	936,705		936,705	936,705		
Domestic exchange settlement pending (*3)	27,647,185	26,502,611	1,144,574	1,090,808		53,766
Payable from purchase of securities (*4)	552	519	33	33		

Insurance payables	4,984		4,984	4,871	113
	₩ 54,213,257	27,771,909	26,441,348	17,053,371	9,387,977

- (*1) The Group has certain derivative transactions subject to the ISDA (International Derivatives Swaps and Dealers Association) agreement. According to the ISDA agreement, when credit events (e.g. default) of counterparties occur, all derivative agreements are terminated and set off.
- (*2) Resale and repurchase agreement, securities borrowing and lending agreement are also similar to ISDA agreement with respect to enforceable netting agreements.
- (*3) The Group has legally enforceable right to set off and settles financial assets and liabilities on a net basis under normal business terms. Therefore, domestic exchanges settlement receivables (payables) are recorded on a net basis in the consolidated statements of financial position.
- (*4) Receivables and payables related to settlement of purchase and disposition of enlisted securities are offset and the net amount is presented in the consolidated statement of financial position because the Group currently has a legally enforceable right to set off the recognized amounts and intends to settle on a net basis.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)**(i) Capital risk management**

The controlling company, banks or other financial institutions conducting banking business as prescribed in the Financial Holding Company Act, is required to maintain a minimum consolidated equity capital ratio of 8.0%.

Consolidated equity capital ratio is defined as the ratio of equity capital as a percentage of risk-weighted assets on a consolidated basis, determined in accordance with the Financial Services Commission requirements that have been formulated based on Bank of International Settlement standards. Equity capital, as applicable to bank holding companies, is defined as the sum of Common Equity Tier 1 capital (including common stock, share premium resulting from the issue of instruments classified as common equity Tier 1, retained earnings, etc.), Additional Tier 1 capital (with the minimum set of criteria for an instrument issued by the Group to meet, i.e. perpetual) and Tier 2 capital (to provide loss absorption on a gone-concern basis) less any deductible items (including goodwill, income tax assets, etc.), each as defined under the Regulation on the Supervision of Financial Holding Companies. Risk-weighted assets is defined as the sum of credit risk-weighted assets and market risk-weighted assets.

The capital adequacy ratio of the Group as of December 31, 2017 and 2018 are as follows:

	2017	2018
Capital:		
Tier I common equity capital	₩ 26,756,509	28,696,267
Additional tier 1 capital	916,383	1,981,609
Tier I capital	27,672,892	30,677,876
Tier II capital	3,040,572	3,315,185
Total capital (A)	₩ 30,713,464	33,993,061
Total risk-weighted assets (B)	₩ 207,768,636	228,678,105
Capital adequacy ratio (A/B)	14.78%	14.87%
Tier I capital adequacy ratio	13.32%	13.42%
Common equity capital adequacy ratio	12.88%	12.55%

As of December 31, 2017 and 2018, the Group met the regulatory capital ratio above 8%.

5. Significant estimates and judgments

The preparation of consolidated financial statements requires the application of certain critical estimates and judgments relative to the future. Management's estimated outcomes may differ from actual outcomes. The change in an accounting estimate is recognized prospectively in profit or loss in the period of the change, if the change affects that period only, or the period of the change and future periods, if the change affects both.

(a) Estimation of impairment of goodwill

The Group reviews the goodwill annually in accordance with the accounting policy in Note 3. The recoverable amount of the cash-generating unit (group) was determined based on the value-in-use calculation. These calculations are based on estimates.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

5. Significant estimates and judgments (continued)

(b) Income taxes

The Group is subject to tax laws from various countries. In the normal course of business, there are various types of transactions and different accounting methods that may add uncertainties to the decision of the final income taxes. The Group has recognized current and deferred taxes that reflect tax consequences based on the best estimates in which the Group expects, at the end of the reporting period, to recover or settle the carrying amount of its assets and liabilities. However, actual income taxes in the future may not be identical to the recognized deferred tax assets and liabilities, and this difference can affect current and deferred tax at the period when the final tax effect is determined.

(c) Fair value of financial instruments

The fair values of financial instruments which are not actively traded in the market are determined by using valuation techniques. The Group determines valuation methods and assumptions based on significant market conditions at the end of each reporting period. Diverse valuation techniques are used to determine the fair value of financial instruments, from generic valuation techniques to internally developed valuation models that incorporate various types of assumptions and variables.

(d) Credit loss allowance, guarantees and unused loan commitments

The Group determines and recognizes allowances for losses on debt securities, loans and other receivables measured at amortized cost or FVOCI, and recognizes provisions for guarantees and unused loan commitments through impairment testing. The accuracy of allowances and provisions for credit losses is determined by the estimation of expected cash flows for individually assessed allowances, and methodology and assumptions used for collectively assessed allowances and provisions for groups of loans, guarantees and unused loan commitments.

(e) Defined benefit obligation

The present value of a defined benefit obligation that is measured by actuarial valuation methods uses various assumptions which can change according to various elements. The rate used to discount post-employment benefit obligations is determined by reference to market yields at the end of the reporting period on high quality corporate bonds. The currency and term of the corporate bonds are consistent with the currency and estimated term of the post-employment benefit obligations. Actuarial gains and losses including experience adjustments and the effects of changes in actuarial assumptions are recognized in other comprehensive income. Other significant assumptions related to defined benefit obligations are based on current market situations.

(f) Hedging relationship

The Group expects a high risk hedging effect throughout the hedging period in designating the hedging relationship and it is probable that the hedged transaction will be highly probable in the cash flow hedge.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

6. Investment in subsidiaries

- (a) The summarized financial information of the controlling company and the Group's major subsidiaries as of December 31, 2017 and 2018 is as follows:

Investees (*1)(*2)	2017 (*3)			2018		
	Asset balance	Liability balance	Equity balance	Asset balance	Liability balance	Equity balance
Shinhan Financial Group (separate)	₩ 27,639,783	7,447,705	20,192,078	30,114,232	8,464,164	21,650,068
Shinhan Bank	324,314,242	301,660,298	22,653,944	348,523,615	324,331,076	24,192,539
Shinhan Card Co., Ltd.	26,367,562	20,092,443	6,275,119	29,429,455	23,427,988	6,001,467
Shinhan Investment Corp.	28,644,288	25,391,599	3,252,689	29,140,427	25,767,858	3,372,569
Shinhan Life Insurance Co., Ltd.	29,719,359	27,987,427	1,731,932	31,823,631	30,078,522	1,745,109
Shinhan Capital Co., Ltd.	5,315,366	4,603,786	711,580	6,116,585	5,368,265	748,320
Jeju Bank	5,562,924	5,158,123	404,801	5,980,941	5,507,949	472,992
Shinhan Credit Information Co., Ltd.	22,726	8,144	14,582	24,377	8,750	15,627
Shinhan Alternative Investment Management Inc.	86,902	76,250	10,652	102,079	92,194	9,885
Shinhan BNP Paribas Asset Management Co., Ltd.	174,839	18,286	156,553	173,964	14,841	159,123
SHC Management Co., Ltd.	9,438	190	9,248	9,755	198	9,557
Shinhan DS	39,799	24,446	15,353	43,095	23,118	19,977
Shinhan Savings Bank	1,287,170	1,139,533	147,637	1,454,290	1,291,012	163,278
Shinhan AITAS Co., Ltd.	58,158	6,209	51,949	65,725	7,367	58,358
Shinhan REITs Management Co., Ltd.	29,319	71	29,248	36,298	3,496	32,802

(*1) The consolidated financial statements of the consolidated subsidiaries are based on consolidated financial statements, if applicable.

(*2) Trusts, beneficiary certificates, securitization special limited liability companies, associates and private equity investment specialists that are not actually operating their own business are excluded.

(*3) As the accounting treatment for the acquisition of ANZ Retail business by Shinhan Bank Vietnam Co. Ltd was completed, the amount was adjusted retrospectively.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

6. Investment in subsidiaries (continued)

- (b) The summarized income information of the controlling company and the Group's major subsidiaries for the years ended December 31, 2016, 2017 and 2018 is as follows:

	Operating Income	2016		2017 (*3)			2018		Comprehe Income
		Net Income	Comprehensive Income	Operating Income	Net Income	Comprehensive Income	Operating Income	Net Income	
Shinhan Financial Group(separate)	₩ 1,739,924	1,470,250	1,469,850	1,008,868	754,727	755,018	1,519,197	1,234,883	1,234,0
Shinhan Bank	16,672,337	1,940,621	1,717,969	21,240,193	1,712,314	1,496,582	19,731,711	2,279,362	2,333,2
Shinhan Card Co.,	4,672,819	707,344	558,438	5,186,592	898,723	787,956	3,752,232	517,761	477,1
Shinhan Investment Corp.	4,549,941	115,440	120,238	5,558,862	211,919	195,910	5,553,118	251,268	269,0
Shinhan Life Insurance Co.,	5,693,702	150,556	109,754	5,997,997	120,642	46,062	5,633,679	131,021	150,9
Shinhan Capital Ltd.	302,710	33,868	34,059	351,772	87,647	88,128	439,031	103,400	100,3
Shinhan Bank	190,191	25,160	19,969	208,661	25,143	22,053	224,766	27,446	30,5
Shinhan Credit Information Co.,	24,975	(1,174)	(1,047)	32,836	340	377	37,616	1,392	9
Shinhan Alternative Investment Management Inc.	2,404	512	844	29,410	(844)	(842)	21,590	(780)	(7
Shinhan BNP Paribas Asset Management Co.,	69,834	14,302	14,363	77,474	19,705	20,073	78,378	18,868	18,9
Shinhan Management Ltd.	115	416	416	177	1,036	1,036	140	309	3
Shinhan DS	79,004	1,186	2,617	79,063	1,404	2,482	99,279	1,314	1,5
Shinhan Savings Bank	64,229	12,505	11,170	78,516	16,800	16,757	94,636	19,384	18,9
	37,061	7,631	7,631	40,781	6,481	6,481	44,729	8,461	8,4

Shinhan AITAS Ltd.						
Shinhan REITs Management Co.,	70	(752)	(752)	7,386	3,564	3,564

- (*1) The consolidated financial statements of the consolidated subsidiaries are based on consolidated financial statements, if applicable.
- (*2) Trusts, beneficiary certificates, securitization special limited liability companies, associates and private equity investment specialists that are not actually operating their own business are excluded.
- (*3) As the accounting treatment for the acquisition of ANZ Retail business by Shinhan Bank Vietnam Co. Ltd was completed, the amount was adjusted retrospectively.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

6. Investment in subsidiaries (continued)

(c) Change in the scope of consolidation

(1) Change in consolidated subsidiaries for the year ended December 31, 2017 are as follows:

	Company	Description
Included (2017)	Shinhan REITs Management	Newly invested subsidiary

(2) Change in consolidated subsidiaries for the year ended December 31, 2018 are as follows:

	Company	Description
Included (2018)	PT Shinhan Asset Management Indonesia	Newly acquired subsidiary
	SHINHAN DS VIETNAM CO, LTD	Newly invested subsidiary

Subsidiaries such as trust, beneficiary certificate, corporate restructuring fund and private equity fund which are not actually operating their own business are excluded.

7. Operating segments

(a) Segment information

The general descriptions by operating segments as of December 31, 2018 are as follows:

Segment	Description
Banking	The banking segment offers commercial banking services such as lending to and receiving deposits from corporations and individuals and also includes securities investing and trading and derivatives trading primarily through domestic and overseas bank branches and subsidiaries.
Credit card	

	<p>The credit card segment primarily consists of the credit card business of Shinhan Card, including its installment finance and automobile leasing businesses.</p>
Securities	<p>Securities segment comprise securities trading, underwriting and brokerage services.</p>
Life insurance	<p>Life insurance segment consists of life insurance services provided by Shinhan Life Insurance.</p>
Others	<p>Leasing, assets management and other businesses.</p>

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

7. Operating segments (continued)

(b) The following tables provide information of income and expense for each operating segment for the years ended December 31, 2016, 2017 and 2018:

				2016			
	Banking	Credit card	Securities	Life insurance	Others	Consolidation adjustment	Total
Net interest income	₩ 4,605,046	1,484,697	390,761	704,489	13,028	7,345	7,205,366
Net fees and commission income	717,097	408,601	248,845	19,068	169,081	2,847	1,565,539
Impairment losses on financial assets	(746,126)	(347,179)	(8,035)	(9,559)	(85,009)	245	(1,195,663)
General and administrative expenses	(2,907,314)	(802,037)	(406,017)	(227,639)	(215,759)	50,191	(4,508,575)
Other income (expense), net	190,909	296,829	(82,480)	(326,251)	43,783	(80,815)	41,975
Operating income	1,859,612	1,040,911	143,074	160,108	(74,876)	(20,187)	3,108,642
Equity method income	8,615		(273)	(1,188)	4,277	(1,436)	9,995
Income tax expense	64,214	235,140	30,066	2,951	14,190	(1,008)	345,553
Profit (loss) for the period	₩ 1,866,811	806,313	115,440	150,556	(79,150)	(35,051)	2,824,919
Controlling interest	₩ 1,866,446	814,836	115,438	150,556	(79,151)	(93,347)	2,774,778
Non-controlling interests	365	(8,523)	2		1	58,296	50,141

				2017 (*)			
	Banking	Credit card	Securities	Life insurance	Others	Consolidation adjustment	Total
Net interest income	₩ 5,107,888	1,501,054	433,047	727,917	69,231	3,816	7,842,953
Net fees and commission income	816,795	359,408	297,718	53,271	180,510	3,252	1,710,954
	(674,706)	(291,694)	(15,752)	(13,162)	(36,830)	18,596	(1,013,548)

Impairment losses on financial assets							
General and administrative expenses	(3,149,436)	(831,927)	(444,935)	(222,650)	(234,649)	72,399	(4,811,198)
Other income (expense), net	(11,556)	567,234	(17,229)	(385,226)	53,815	(106,173)	100,865
Operating income	2,088,985	1,304,075	252,849	160,150	32,077	(8,110)	3,830,026
Equity method income (loss)	1,306		12,081	(910)	8,796	(880)	20,393
Income tax expense	418,679	285,853	63,472	41,441	32,805	6,153	848,403
Profit for the period	₩ 1,623,425	1,012,755	211,919	120,642	9,600	(29,136)	2,949,205
Controlling interest	₩ 1,623,184	1,027,823	211,907	120,642	9,600	(74,340)	2,918,816
Non-controlling interests	241	(15,068)	12			45,204	30,389

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

7. Operating segments (continued)

				2018			
	Banking	Credit card	Securities	Life insurance	Others	Consolidation adjustment	Total
Net interest income	₩ 5,707,813	1,583,100	429,095	761,742	95,618	2,721	8,580,089
Net fees and commission income	850,646	433,043	388,944	69,780	198,828	(2,244)	1,938,997
Reversal of (provision of) credit loss	(250,134)	(466,447)	(9,226)	(13,400)	(10,238)	1,568	(747,877)
General and administrative expenses	(3,098,629)	(751,580)	(493,906)	(227,740)	(263,046)	93,326	(4,741,575)
Other income (expense), net	(163,104)	74,954	17,963	(409,151)	80,857	(131,739)	(530,220)
Operating income	3,046,592	873,070	332,870	181,231	102,019	(36,368)	4,499,414
Equity method income	(977)		15,228	(1,026)	6,909	(2,646)	17,488
Income tax expense	832,494	225,837	95,438	50,429	59,556	4,591	1,268,345
Profit (loss) for the period	₩ 2,195,263	629,307	251,268	131,021	49,168	(57,762)	3,198,265
Controlling interest	₩ 2,194,950	630,993	251,265	131,021	49,168	(100,675)	3,156,722
Non-controlling interests	313	(1,686)	3			42,913	41,543

(*) As the accounting treatment for the acquisition of ANZ Retail business by Shinhan Bank Vietnam Co. Ltd was completed, the amount was adjusted retrospectively.

(c) The following tables provide information of net interest income (expense) of each operating segment for the years ended December 31, 2016, 2017 and 2018

		2016		
	Banking	Securities	Others	Total

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		Credit card		Life insurance		Consolidation adjustment	
Net interest income from:							
External customers	₩ 4,610,536	1,507,748	392,973	704,188	(10,079)		7,205,366
Internal transactions	(5,490)	(23,051)	(2,212)	301	23,107	7,345	
	₩ 4,605,046	1,484,697	390,761	704,489	13,028	7,345	7,205,366

				2017			
	Banking	Credit card	Securities	Life insurance	Others	Consolidation adjustment	Total
Net interest income from:							
External customers	₩ 5,113,584	1,517,399	427,888	727,975	56,107		7,842,953
Internal transactions	(5,696)	(16,345)	5,159	(58)	13,124	3,816	
	₩ 5,107,888	1,501,054	433,047	727,917	69,231	3,816	7,842,953

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

7. Operating segments (continued)

				2018			
	Banking	Credit card	Securities	Life insurance	Others	Consolidation adjustment	Total
Net interest income from:							
External customers	₩ 5,714,568	1,602,849	423,156	762,978	76,538		8,580,089
Internal transactions	(6,755)	(19,749)	5,939	(1,236)	19,080	2,721	
	₩ 5,707,813	1,583,100	429,095	761,742	95,618	2,721	8,580,089

- (d) The following tables provide information of net fees and commission income (expense) of each operating segment for the years ended December 31, 2016, 2017 and 2018

				2016			
	Banking	Credit card	Securities	Life insurance	Others	Consolidation adjustment	Total
Net fees and commission income from:							
External customers	₩ 744,464	427,592	255,999	26,769	110,715		1,565,539
Internal transactions	(27,367)	(18,991)	(7,154)	(7,701)	58,366	2,847	
	₩ 717,097	408,601	248,845	19,068	169,081	2,847	1,565,539

				2017			
	Banking	Credit card	Securities	Life insurance	Others	Consolidation adjustment	Total
Net fees and commission income from:							
External customers	₩ 844,349	384,356	306,407	60,555	115,287		1,710,954
Internal transactions	(27,554)	(24,948)	(8,689)	(7,284)	65,223	3,252	
	₩ 816,795	359,408	297,718	53,271	180,510	3,252	1,710,954

	2018						
	Banking	Credit card	Securities	Life insurance	Others	Consolidation adjustment	Total
Net fees and commission income from:							
External customers	₩ 872,631	464,342	400,227	77,145	124,652		1,938,997
Internal transactions	(21,985)	(31,299)	(11,283)	(7,365)	74,176	(2,244)	
	₩ 850,646	433,043	388,944	69,780	198,828	(2,244)	1,938,997

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

7. Operating segments (continued)

(e) Financial information of geographical area

The following table provides information of income from external consumers by geographical area for the years ended December 31, 2016, 2017 and 2018.

	2016	2017 (*2)	2018
Domestic	₩ 2,876,073	3,504,780	4,023,916
Overseas	232,569	325,246	475,498
	₩ 3,108,642	3,830,026	4,499,414

The following table provides information of non-current assets by geographical area as of December 31, 2017 and 2018.

	2017 (*2)	2018
Domestic	₩ 7,513,736	7,597,266
Overseas	199,660	201,574
	₩ 7,713,396	7,798,840

(*1) Non-current assets comprise property and equipment, intangible assets and investment properties.

(*2) As the accounting treatment for the acquisition of ANZ Retail business by Shinhan Bank Vietnam Co. Ltd was completed, the amount was adjusted retrospectively.

8. Cash and due from banks at amortized cost

(a) Cash and due from banks at amortized cost as of December 31, 2018 are as follows:

2018

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Cash and cash equivalents	₩ 2,617,231
Deposits in won:	
Reserve deposits	2,360,416
Time deposits	1,346,015
Other	2,271,812
	5,978,243
Deposits in foreign currency:	
Deposits	5,045,513
Time deposits	2,791,486
Other	930,977
	8,767,976
Allowance for credit losses	(14,824)
	₩ 17,348,626

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

8. Cash and due from banks at amortized cost (continued)

(b) Restricted due from banks at amortized cost as of December 31, 2018 are as follows:

	2018
Deposits denominated in won:	
Reserve deposits	₩ 2,360,416
Other (*1)	2,182,119
	4,542,535
Deposits denominated in foreign currency	1,632,971
	₩ 6,175,506

(*1) Pursuant to the Regulation on Financial Investment Business, the Group is required to deposit certain portions of customers' deposits with the Korean Securities Finance Corporation (KSFC) or banks to ensure repayment of customer deposits and the deposits may not be pledged as collateral.

9. Cash and due from banks

(a) Cash and due from banks as of December 31, 2017 are as follows:

	2017
Cash and cash equivalents	₩ 1,792,527
Deposits in won:	
Reserve deposits	8,689,515
Time deposits	1,361,612
Other	3,023,087
	13,074,214
Deposits in foreign currency:	
Deposits	4,064,408

Time deposits	3,053,464
Other	698,039
	7,815,911
Allowance for credit losses	(14,054)
	₩ 22,668,598

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

9. Cash and due from banks (continued)

(b) Restricted due from banks as of December 31, 2017 are as follows:

	2017
Deposits denominated in won:	
Reserve deposits	₩ 8,689,515
Other (*1)	3,628,419
	12,317,934
Deposits denominated in foreign currency	1,117,597
	₩ 13,435,531

(*1) Pursuant to the Regulation on Financial Investment Business, the Group is required to deposit certain portions of customers' deposits with the Korean Securities Finance Corporation (KSFC) or banks to ensure repayment of customer deposits and the deposits may not be pledged as collateral.

10. Financial assets at fair value through profit or loss

(a) Financial assets at fair value through profit or loss as of December 31, 2018 are as follows:

	2018
Debt securities:	
Governments	₩ 2,765,054
Financial institutions	9,415,470
Corporations	6,664,839
Stocks with put option	381,844
Equity investment with put option	1,080,723
Beneficiary certificates	9,062,004
Commercial papers	5,535,397
CMA (*1)	3,001,831

Others (*2)	2,227,802
	40,134,964
Equity securities:	
Stocks	1,050,097
Equity investment	4,908
Others	110,066
	1,165,071
	41,300,035
Other:	
Loans at fair value	1,209,194
Due from banks at fair value	870,656
Gold deposits	154,881
	₩43,534,766

(*1) CMA: Cash management account deposits

(*2) Restricted reserve for claims of customers deposits (trusts) as of December 31, 2018 are ₩1,040,180 million.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

10. Financial assets at fair value through profit or loss (continued)

- (b) Financial assets to which overlay approach were applied in accordance with IFRS 9 Financial Instruments and IFRS 4 Insurance Contracts as of December 31, 2018 are as follows.

	2018
Due from banks at fair value through profit or loss	₩ 870,656
Securities at fair value through profit or loss	3,160,525
	₩4,031,181

A financial asset is eligible for designation for the overlay approach, if it is measured at fair value through profit or loss applying IFRS 9 but would not have been measured at fair value through profit or loss in its entirety applying IAS 39; and it is not held in respect of an activity that is not associated with contracts within the scope of IFRS 4.

The reclassified amounts between profit or loss and other comprehensive income due to the overlay approach as of and for the year ended December 31, 2018 are as follows:

	Profit or loss		Other comprehensive income	
	IFRS 9	IAS 39	Amount	Tax effect
Net gain (loss) on valuation of financial assets at fair value through profit or loss	₩ (77,179)	(4,425)	(72,754)	20,007
Net gain (loss) on disposal of financial assets at fair value through profit or loss	4,310	6,498	(2,188)	602
	₩ (72,869)	2,073	(74,942)	20,609

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

11. Trading assets

Trading assets as of December 31, 2017 are as follows:

	2017
Debt securities:	
Governments	₩ 3,254,587
Financial institutions	8,014,128
Corporations	5,097,200
Commercial papers	3,625,436
CMA (*1)	3,157,475
Others	491,820
	23,640,646
Equity securities:	
Stocks	738,666
Beneficiary certificates	3,728,027
Others	167,660
	4,634,353
Other	
Gold deposits	189,297
	₩ 28,464,296

(*1) CMA: Cash management account deposits

12. Financial asset designated at fair value through profit or loss

Financial asset designated at fair value through profit or loss as of December 31, 2017 are as follows:

	2017	Reason for designation
Debt securities	₩ 2,110,809	

		Evaluation and management on a fair value basis, accounting mismatch
Equity securities (*1)	1,234,356	Evaluation and management on a fair value basis, accounting mismatch
Others	233,892	Combined instrument
	₩ 3,579,057	

(*1) Restricted reserve for claims of customers deposits (trusts) as of December 31, 2017 are ~~₩~~958,236 million.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

13. Derivatives

(a) The notional amounts of derivatives as of December 31, 2017 and 2018 are as follows:

	2017	2018
Foreign currency related:		
Over the counter:		
Currency forwards	₩ 100,806,648	139,804,552
Currency swaps	30,269,510	31,794,900
Currency options	1,178,047	1,939,939
	132,254,205	173,539,391
Exchange traded:		
Currency futures	1,179,986	436,714
	133,434,191	173,976,105
Interest rates related:		
Over the counter:		
Interest rate swaps	30,269,249	31,228,489
Interest rate options	310,000	294,000
	30,579,249	31,522,489
Exchange traded:		
Interest rate futures	1,545,905	1,739,697
Interest rate swaps (*1)	53,625,962	56,862,374
	55,171,867	58,602,071
	85,751,116	90,124,560
Credit related:		
Over the counter:		
Credit swaps	2,443,609	3,094,077
Equity related:		

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Over the counter:

Equity swaps and forwards	4,223,096	5,149,967
Equity options	1,230,635	645,709
	5,453,731	5,795,676

Exchange traded:

Equity futures	526,913	630,409
Equity options	3,238,049	2,708,557
	3,764,962	3,338,966

	9,218,693	9,134,642
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Commodity related:

Over the counter:

Commodity swaps and forwards	931,644	1,062,588
Commodity options	4,880	4,780
	936,524	1,067,368

Exchange traded:

Commodity futures and options	122,394	245,751
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	1,058,918	1,313,119
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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

13. Derivatives (continued)

	2017	2018
Hedge:		
Currency forwards	1,227,354	1,522,306
Currency swaps	3,866,015	4,143,828
Interest rate swaps	8,088,422	10,147,731
	13,181,791	15,813,865
	₩ 245,088,318	293,456,368

(*1) The notional amount of derivatives which is settled in the Central Counter Party (CCP) system.

(b) Fair values of derivative instruments as of December 31, 2017 and 2018 are as follows:

	2017		2018	
	Assets	Liabilities	Assets	Liabilities
Foreign currency related:				
Over the counter:				
Currency forwards	₩ 1,895,225	1,636,715	912,795	870,984
Currency swaps	854,892	865,551	393,702	372,725
Currency options	12,023	12,070	7,637	12,273
	2,762,140	2,514,336	1,314,134	1,255,982
Exchange traded:				
Currency futures	416	553	11	
	2,762,556	2,514,889	1,314,145	1,255,982
Interest rates related:				
Over the counter:				
Interest rate swaps	204,449	208,901	251,251	172,019
Interest rate options		1,893		5,347

	204,449	210,794	251,251	177,366
Exchange traded:				
Interest rate futures	1,771	544	412	1,569
	206,220	211,338	251,663	178,935
Credit related:				
Over the counter:				
Credit swaps	63,359	10,617	37,951	14,916
Equity related:				
Over the counter:				
Equity swap and forwards	112,282	13,502	51,869	205,709
Equity options	91,040	12,177	2,265	2,352
	203,322	25,679	54,134	208,061

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

13. Derivatives (continued)

	2017		2018	
	Assets	Liabilities	Assets	Liabilities
Exchange traded:				
Equity futures	72	805	15,937	778
Equity options	23,562	18,521	37,690	109,795
	23,634	19,326	53,627	110,573
	226,956	45,005	107,761	318,634
Commodity related:				
Over the counter:				
Commodity swaps and forwards	15,576	22,593	7,548	74,158
Commodity options	72	77	27	29
	15,648	22,670	7,575	74,187
Exchange traded:				
Commodity futures	6,037	315	8,226	4,016
	₩ 21,685	22,985	15,801	78,203
Hedge:				
Currency forwards	₩ 50,492	1,567	9,185	30,497
Currency swaps	59,399	161,896	21,976	79,492
Interest rate swaps	9,511	519,364	35,131	483,233
	119,402	682,827	66,292	593,222
	₩ 3,400,178	3,487,661	1,793,613	2,439,892

(c) Gain or loss on valuation of derivatives for the years ended December 31, 2016, 2017 and 2018 are as follows:

	2016	2017	2018
Foreign currency related			
Over the counter			
Currency forwards	₩ (80,907)	85,498	41,188
Currency swaps	7,193	91,410	(34,444)
Currency options	9,704	5,422	8,247
	(64,010)	182,330	14,991
Exchange traded			
Currency futures	(33)	(137)	11
	(64,043)	182,193	15,002
Interest rates related			
Over the counter			
Interest rate swaps	(68,490)	(17,805)	86,675
Interest rate options	1,116	413	(1,459)
	(67,374)	(17,392)	85,216

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

13. Derivatives (continued)

	2016	2017	2018
Exchange traded			
Interest rate futures	3,849	6,950	(2,512)
	(63,525)	(10,442)	82,704
Credit related			
Over the counter			
Credit swaps	10,761	46,593	(8,318)
Equity related			
Over the counter			
Equity swap and forwards	111,723	73,490	(270,929)
Equity options	11,639	36,662	4,326
	123,362	110,152	(266,603)
Exchange traded			
Equity futures	626	(733)	15,159
Equity options	3,420	22,315	(44,163)
	4,046	21,582	(29,004)
	127,408	131,734	(295,607)
Commodity related			
Over the counter			
Commodity swaps and forwards	(8,988)	13,435	(89,902)
Commodity options	(44)	(10)	33
	(9,032)	13,425	(89,869)
Exchange traded			
Commodity futures	98	5,722	4,209
	(8,934)	19,147	(85,660)
Hedge			

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Currency forwards	(80,958)	48,050	(26,031)
Currency swaps	19,366	(143,737)	66,156
Interest rate swaps	(239,596)	(191,233)	38,767
	(301,188)	(286,920)	78,892
	₩ (299,521)	82,305	(212,987)

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

13. Derivatives (continued)

(d) Impact of hedge accounting on the consolidated financial statements

i) Gains (losses) on fair value hedged items and hedging instruments attributable to the hedged ineffectiveness for the year ended December 31, 2018 were as follows:

	Gains on fair value hedges (hedged items)	Gains on fair value hedges (hedging instruments)	Hedge ineffectiveness recognized in profit or loss (*2)
Fair value hedges			
Interest rate swaps (*1)	₩ (76,573)	79,635	3,062
Foreign exchange risk (*1)	55,188	(60,380)	(5,192)
	₩ (21,385)	19,255	(2,130)

(*1) The related account categories are presented as interest rate swap assets / liabilities and currency swap assets.

(*2) Ineffective portion of hedge: The difference between hedging instruments and hedged items

ii) Due to the ineffectiveness of hedge of cash flow risk and hedge of net investment in foreign operations during the year, the amounts recognized in the income statement and other comprehensive income are as follows.

	Gains on hedges recognized in other comprehensive income	Hedge ineffectiveness recognized in profit or loss (*2)	From cash flow hedge reserve to profit or loss Reclassified amount
Cash flow hedges			
Foreign exchange risk (*1)	₩ 65,386	(5,188)	70,051
Interest rate risk (*1)	(23,186)		
Hedge of net investments			
Foreign exchange risk (*1)	(35,879)	(3,765)	

₩	6,321	(8,953)	70,051
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(*1) The related account categories are presented as interest rate swap assets / liabilities and currency swap assets / liabilities, currency forwards assets / liabilities and borrowings.

(*2) Ineffective portion of hedge: The difference between hedging instruments and hedged items.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

13. Derivatives (continued)

(e) Nominal values and average hedge ratio for derivatives as of December 31, 2018 are as follows:

	Less than 1 year	1~2 years	2~3 years	2018 3~4 years	4~5 years	More than 5 years	Total
Interest risk:							
Nominal values:	₩ 190,000	737,632	723,177	707,254	1,305,584	6,484,084	10,147,731
Average hedge ratio:	100%	100%	100%	100%	100%	100%	100%
Exchange risk:							
Nominal values:	2,731,517	1,958,746	827,158	1,038,935	302,423		6,858,779
Average hedge ratio:	100%	100%	100%	100%	100%		100%

(f) Effect of hedge accounting on financial statement, statement of comprehensive income, statement of changes in equity

i) Purpose and strategy of risk avoidance

The Group transacts with derivative financial instruments to hedge its interest rate risk and currency risk arising from the assets and liabilities of the Group. The Group applies the fair value hedge accounting for the changes in the market interest rates of the Korean won structured notes, foreign currency generated financial debentures, structured deposits in foreign currencies, foreign currency structured deposits and foreign currency investment receivables; and cash flow hedge accounting for interest rate swaps and currency swaps to hedge cash flow risk due to interest rates and foreign exchange rates of the Korean won debt, the Korean won bonds, foreign currency bonds, etc. In addition, in order to hedge the exchange rate risk of the net investment in overseas business, the Group applies the net investment hedge accounting for foreign operations using currency forward and non-derivative financial instruments.

- ii) Effect of derivatives on statement financial position, statement of comprehensive income, statement of changes in equity

	Nominal amount	BV of asset (*1)	BV of liabilities (*1)	Changes if fair value in the period
Fair value hedges				
Interest rate swap	₩ 9,377,731	35,093	467,381	55,244
Currency swap	33,543	433		(1,502)
Cash flow hedge				
Interest rate swap	770,000	38	15,853	(23,186)
Currency swap	4,110,285	21,543	79,492	(54)
Currency forward	1,298,686	3,191	24,925	(33,460)
Hedge of net investments in foreign operations				
Currency forward	223,620	5,994	5,572	(3,261)
Borrowings	1,192,645		1,186,792	(36,383)

(*1) The related account categories are presented as interest rate swap assets / liabilities and currency forwards.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

13. Derivatives (continued)

- iii) Effect of hedging items on statement financial position, statement of comprehensive income, statement of changes in equity

	BV of asset	BV of liabilities	Assets of Cumulative fair value hedge adjustment	Liabilities of Cumulative fair value hedge adjustment	Changes if fair value in the period	Cash flow hedge reserve	Foreign currency conversion reserves
Fair value hedges							
Interest rate risk	₩ 293,215	8,873,059	(2,832)	(524,459)	(56,462)		
Foreign exchange risk	62,406				2,675		
Cash flow hedge							
Interest rate risk		1,539,005				(10,184)	
Foreign exchange risk	2,795,320	2,716,148			63,860	(2,006)	
Hedge of net investments in foreign operations							
Foreign exchange risk					(35,879)		138,416

(*1) The related account categories are presented as interest rate swap assets / liabilities and currency forwards.

14. Loans at amortized cost

- (a) Loans at amortized cost as of December 31, 2018 are as follows:

	2018
Household loans	₩ 120,832,081
Corporate loans	152,164,476
Public and other loans	2,831,026
Loans to banks	3,585,563
Credit card receivables	22,447,614

	301,860,760
Discount	(23,588)
Deferred loan origination costs and fees	497,368
	302,334,540
Less: Allowance for credit loss	(2,725,068)
	₩ 299,609,472

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

14. Loans at amortized cost (continued)

(b) Changes in book value of Loans at amortized cost and other assets as of December 31, 2018 are as follows:

	Loans at amortized cost			Other assets (*1)			Total
	12 month expected credit loss	Life time expected credit loss	Impaired financial asset	12 month expected credit loss	Life time expected credit loss	Impaired financial asset	
Beginning balance	₩ 245,310,809	30,030,619	1,784,601	31,599,203	456,538	23,243	309,205,013
Transfer (from) to 12 month expected credit losses	7,532,588	(7,527,159)	(5,429)	28,028	(28,024)	(4)	
Transfer (from) to lifetime expected credit losses	(20,879,174)	20,943,897	(64,723)	(51,596)	51,607	(11)	
Transfer (from) to credit-impaired financial assets	(1,948,419)	(185,166)	2,133,585	(22,162)	(2,986)	25,148	
Origination	130,894,396	529,735	315,389	30,085,141	27,251	21,930	161,873,842
Collection	(93,938,952)	(10,682,116)	(1,008,819)	(30,207,574)	(410,559)	(4,236)	(136,252,256)
Charge off			(851,397)			(20,984)	(872,381)
Disposal	(121,915)	(19,056)	(582,491)		(495)	(13,083)	(737,040)
Others (*2)	749,646	(52,157)	(23,752)	77,654	6,129		757,520
Ending balance	₩ 267,598,979	33,038,597	1,696,964	31,508,694	99,461	32,003	333,974,698

- (*1) The amortized cost includes the gross carrying amount of deposits and other assets.
- (*2) Other changes are due to bond adjustment, investment conversion, and exchange rate fluctuations.
- (*3) The amount of uncollected loans receivable (principal and interest) is ~~₩~~ 9,597,389 million, which is written off as of December 31, 2018.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

14. Loans at amortized cost (continued)

- (c) Changes in allowance for credit loss of Loans at amortized cost and other financial assets as of December 31, 2018 are as follows:

	Loans at amortized cost			Other assets (*1)			Total
	12 month expected credit loss	Life time expected credit loss	Impaired financial asset	12 month expected credit loss	Life time expected credit loss	Impaired financial asset	
Beginning balance	₩ 730,613	1,088,259	1,053,114	39,048	7,666	20,166	2,938,866
Transfer (from) to 12 month expected credit losses	115,780	(114,614)	(1,166)	581	(578)	(3)	
Transfer (from) to lifetime expected credit losses	(61,415)	103,502	(42,087)	(212)	222	(10)	
Transfer (from) to credit-impaired financial assets	(2,509)	(40,729)	43,238	(94)	(2,209)	2,303	
Provided (reversed)	23,662	159,565	521,288	(1,998)	1,775	24,293	728,585
Charge off			(851,397)			(20,984)	(872,381)
Discount			(20,778)				(20,778)
Disposal	(636)	(374)	(59,567)		(7)	(2,736)	(63,320)
Collection			311,280			1,815	313,095
Others (*2)	(74,495)	(167,687)	12,221	2,602	61	(80)	(227,378)
Ending balance	₩ 731,000	1,027,922	966,146	39,927	6,930	24,764	2,796,689

(*1) The amortized cost includes the gross carrying amount of deposits and other assets.

(*2) Other changes are due to bond adjustment, investment conversion, and exchange rate fluctuations.

- (d) Changes in deferred loan origination costs for the year ended December 31, 2018 are as follows:

2018

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Beginning balance (*1)	₩ 434,746
Loan origination	235,032
Amortization	(172,410)
Ending balance	₩ 497,368

(*1) The beginning balance for 2018 was restated in accordance with IFRS 9.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

15. Loans

(a) Loans as of December 31, 2017 are as follows:

	2017
Household loans	₩ 111,590,777
Corporate loans	139,989,642
Public and other	2,297,631
Loans to banks	2,969,784
Card receivables	20,640,857
	277,488,691
Discount	(44,936)
Deferred loan origination costs and fees	432,615
	277,876,370
Allowance for credit losses	(2,310,604)
	₩ 275,565,766

(b) Changes in the allowance for credit losses for the year ended December 31, 2017 are as follows:

	2017		
	Loans	Other (*3)	Total
Beginning balance	₩ 2,360,795	66,896	2,427,691
Provision for (reversal of) allowance (*1)	799,577	15,672	815,249
Write-offs	(973,943)	(20,063)	(994,006)
Effect of discounting (*2)	(23,316)		(23,316)
Disposal	(63,091)	16	(63,075)
Recoveries	311,042	1,591	312,633
Others (*1)(*4)	(100,460)	(379)	(100,839)
Ending balance	₩ 2,310,604	63,733	2,374,337

- (*1) As the accounting for the acquisition of ANZ Retail business by Shinhan Bank of Vietnam was completed, the amount was adjusted retrospectively.
- (*2) Interest income from impaired financial assets
- (*3) Included allowance for due from banks and other assets
- (*4) Other changes were due to debt restructuring, debt-equity swap, and foreign exchange rate, etc.

(c) Changes in deferred loan origination costs for the year ended December 31, 2017 are as follows:

	2017
Beginning balance	₩ 395,394
Loan origination	178,890
Amortization	(141,669)
Ending balance	₩ 432,615

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

16. Securities at fair value through other comprehensive income and securities at amortized cost

(a) Details of securities at FVOCI and securities at amortized cost as of December 31, 2018 are as follows:

	2018
Securities at FVOCI:	
Debt securities:	
Government bonds	₩ 8,975,391
Financial institutions bonds	17,341,330
Corporate bonds	11,360,924
	37,677,645
Equity securities (*1):	
Stocks	630,010
Equity investments	6,515
	636,525
	38,314,170
Securities at amortized cost:	
Debt securities:	
Government bonds	18,000,454
Financial institutions bonds	2,171,623
Corporate bonds and others	8,306,059
	28,478,136
	₩ 66,792,306

(*1) Equity securities in the above table are classified as other comprehensive income equity securities designated as fair value items, and other comprehensive income and fair value options were exercised for the purpose of holding as required by the policy.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

16. Securities at fair value through other comprehensive income and securities at amortized cost (continued)

- (b) Changes in carrying value of debt securities at fair value through other comprehensive income and securities at amortized cost for the year ended December 31, 2018 are as follows:

	Securities at fair value through other comprehensive income			Securities at amortized cost		
	12 month expected credit loss	Life time expected credit loss	Total	12 month expected credit loss	Life time expected credit loss	Total
Beginning allowance	₩ 36,641,928	15,879	36,657,807	24,403,423	21,444	24,424,867
Transfer to 12 month expected credit loss						
Transfer to life time expected credit loss	(26,187)	26,187				
Transfer to impaired financial asset						
Origination	26,938,512	98,778	27,037,290	5,836,342		5,836,342
Disposal	(7,182,343)	(18,687)	(7,201,030)			
Repayment	(19,338,938)		(19,338,938)	(1,607,467)	(3)	(1,607,470)
Others (*1)	538,842	(16,326)	522,516	(167,377)	1,034	(166,343)
Ending balance	₩ 37,571,814	105,831	37,677,645	28,464,921	22,475	28,487,396

(*1) Included the effects from changing currency rate.

- (c) Changes in allowance for credit loss of debt securities at fair value through other comprehensive income and securities at amortized cost for the year ended December 31, 2018 are as follows:

	Securities at fair value through other comprehensive income			Securities at amortized cost		
	12 month expected credit loss	Life time expected credit loss	Total	12 month expected credit loss	Life time expected credit loss	Total

Beginning allowance	₩ 17,038	1,938	18,976	6,327	2,232	8,559
Transfer to 12 month expected credit loss						
Transfer to life time expected credit loss	(234)	234				
Transfer to impaired financial asset						
Provided (reversed)	15,286	(3,220)	12,066	4,615	(2,215)	2,400
Disposal	(5,251)	(229)	(5,480)			
Others (*1)	(1,117)	1,639	522	(1,699)		(1,699)
Ending balance	₩ 25,722	362	26,084	9,243	17	9,260

(*1) Included the effects from changing currency rate

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

16. Securities at fair value through other comprehensive income and securities at amortized cost (continued)

- (d) Gain or loss on disposal of securities at fair value through other comprehensive income and securities at amortized cost for the year ended December 31, 2018 are as follows:

	2018
Gain on disposal of securities at FVOCI	₩ 28,018
Loss on disposal of securities at FVOCI	(7,464)
Loss on disposal of securities at amortized cost	(9)
	₩ 20,545

- (e) Income or loss on equity securities at fair value through other comprehensive income
As of December 31, 2018, the Group recognizes dividends amounting to ₩16,871 million related to equity securities at fair value through other comprehensive income.

In addition, the disposition of equity securities at fair value through other comprehensive income are as follows:

	2018
Fair value at the date of disposal	₩ 3,285
Cumulative net profit at the time of disposal	(3,635)

17. Available-for-sale financial assets and held-to-maturity financial assets

- (a) Available-for-sale financial assets and held-to-maturity financial assets as of December 31, 2017 are as follows:

	2017
Available-for-sale financial assets:	
Debt securities:	
Government bonds	₩ 7,570,104

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Financial institution bonds	17,649,694
Corporate bonds and others	11,966,754
	37,186,552
Equity securities (*1):	
Stocks	1,026,666
Equity investments	749,818
Beneficiary certificates	3,126,851
Others	27,050
	4,930,385
	42,116,937

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

17. Available-for-sale financial assets and held-to-maturity financial assets (continued)

	2017
Held-to-maturity financial assets:	
Debt securities:	
Government bonds	15,164,133
Financial institutions bonds	2,708,148
Corporate bonds and others	7,118,399
	24,990,680
	₩ 67,107,617

(*1) Equity securities with no quoted market prices in active markets and for which the fair value cannot be measured reliably are recorded at cost were ₩126,220 million as of December 31, 2017.

(b) Gain or loss on sale of available-for-sale financial assets for the year ended December 31, 2016 and 2017 are as follows:

	2016	2017
Gain on sale of available-for-sale financial assets	₩ 707,134	529,411
Loss on sale of available-for-sale financial assets	(59,593)	(30,224)
	₩ 647,541	499,187

18. Property and equipment

(a) Details of property and equipment as of December 31, 2017 and 2018 were as follows:

2017

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	Acquisition cost	Accumulated depreciation	Book value
Land	₩ 1,819,912		1,819,912
Buildings	1,158,661	(275,240)	883,421
Others	1,958,787	(1,640,348)	318,439
	₩ 4,937,360	(1,915,588)	3,021,772

	Acquisition cost	2018 Accumulated depreciation	Book value
Land	₩ 1,827,711		1,827,711
Buildings	1,173,888	(321,319)	852,569
Others	2,002,755	(1,679,149)	323,606
	₩ 5,004,354	(2,000,468)	3,003,886

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

18. Property and equipment (continued)

(b) Changes in property and equipment for the years ended December 31, 2017 and 2018 were as follows:

	2017			
	Land	Buildings	Others	Total
Beginning balance	₩ 1,885,233	941,043	319,337	3,145,613
Acquisitions (*1)	1,460	24,354	129,435	155,249
Disposals (*1)	(5,487)	(357)	(3,163)	(9,007)
Depreciation		(44,285)	(129,256)	(173,541)
Impairment			(16)	(16)
Amounts transferred from(to) investment properties	(59,263)	(32,519)		(91,782)
Amounts transferred from(to) non-current assets held for sale	(1,815)	(3,521)		(5,336)
Effects of foreign currency movements	(216)	(1,294)	2,102	592
Ending balance	₩ 1,819,912	883,421	318,439	3,021,772

(*1) ₩14,285 million transferred from construction-in progress was included.

	2018			
	Land	Buildings	Others	Total
Beginning balance	₩ 1,819,912	883,421	318,439	3,021,772
Acquisitions (*1)	33	14,612	136,244	150,889
Disposals (*1)	(17,735)	(3,282)	(9,699)	(30,716)
Depreciation		(47,207)	(124,564)	(171,771)
Impairment				
Amounts transferred from(to) investment property	23,972	4,227		28,199
Amounts transferred from(to) non-current assets held for sale (*2)	(32)	(48)		(80)
Effects of foreign currency movements	1,561	846	3,186	5,593
Ending balance	₩ 1,827,711	852,569	323,606	3,003,886

(*1) ₩6,319 million transferred from construction-in progress was included.

(*2) Included buildings, land.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

18. Property and equipment (continued)

(c) Insured assets and liability insurance as of December 31, 2018 were as follows:

Type of insurance	Insured assets	Amount covered	Insurance company
Comprehensive insurance for financial institutions	Cash (including ATM)	23,200	Samsung Fire & Marine Insurance Co., Ltd., etc.
Comprehensive Property insurance	Property Total Risk, Machine Risk, General Liability Liability Collateral	1,328,969	Samsung Fire & Marine Insurance Co., Ltd., etc.
Fire insurance	Business property and real estate	70,351	Meritz Fire & Marine Insurance Co., Ltd., etc.
Compensation liability insurance for officers	Officer liability	50,000	Meritz Fire & Marine Insurance Co., Ltd., etc.
Compensation liability insurance for employee accident	Executives	32,743	Meritz Fire & Marine Insurance Co., Ltd., etc.
Burglary insurance	Cash and securities	18,195	Samsung Fire & Marine Insurance Co., Ltd., etc.
Others	Personal information liability insurance	80,724	Samsung Fire & Marine Insurance Co., Ltd., etc.

19. Intangible assets

(a) Details of intangible assets as of December 31, 2017 and 2018 were as follows:

	2017 (*1)	2018
Goodwill	₩ 3,901,260	3,903,518

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Software	83,829	102,393
Development cost	75,322	82,536
Others	212,910	231,687
	₩4,273,321	4,320,134

(*1) As the accounting treatment for the acquisition of ANZ Retail business by Shinhan Bank Vietnam Co. Ltd was completed, the amount was adjusted retrospectively.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

19. Intangible assets (continued)

(b) Changes in intangible assets for the years ended December 31, 2017 and 2018 were as follows:

		2017			
			Development		
	Goodwill	Software	cost	Other	Total
Beginning balance	₩ 3,873,060	94,261	56,563	202,628	4,226,512
Acquisitions		27,354	40,378	56,982	124,714
Business combination (*1)	28,200			15,255	43,455
Disposals		(21)		(12,901)	(12,922)
Impairment (*2)			(206)	26	(180)
Amortization (*3)		(38,095)	(21,413)	(48,941)	(108,449)
Effects of foreign currency movements		330		(139)	191
Ending balance	₩ 3,901,260	83,829	75,322	212,910	4,273,321

(*1) As the accounting treatment for the acquisition of ANZ Retail business by Shinhan Bank Vietnam Co. Ltd was completed, the amount was adjusted retrospectively.

(*2) Memberships such as golf and condominium memberships are intangible assets that cannot be limited to a specific period of time. If the market value of the exchanges is less than the carrying amount at the end of the reporting period, the impairment loss is recognized.

(*3) Included general administrative expense and other operating income at comprehensive income.

		2018			
			Development		
	Goodwill	Software	cost	Other	Total
Beginning balance	₩ 3,901,260	83,829	75,322	212,910	4,273,321
Acquisitions		56,009	38,230	69,501	163,740
Business combination	2,258				2,258
Disposals		(334)	(5,880)	(7,117)	(13,331)
Impairment (*1)			(706)	(362)	(1,068)
Amortization (*2)		(40,792)	(24,430)	(41,957)	(107,179)
Effects of foreign currency movements		3,681		(1,288)	2,393

Ending balance	₩ 3,903,518	102,393	82,536	231,687	4,320,134
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(*1) Memberships such as golf and condominium memberships are intangible assets that cannot be limited to a specific period of time. If the market value of the exchanges is less than the carrying amount at the end of the reporting period, the impairment loss is recognized.

(*2) Included general administrative expense and other operating income at comprehensive income.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

19. Intangible assets (continued)

(c) Goodwill

i) Goodwill allocated in the Group's CGUs as of December 31, 2017 and 2018

	2017 (*1)	2018
Banking	₩ 810,058	810,058
Credit card	2,773,231	2,773,231
Securities	5,646	7,904
Life insurance	275,371	275,371
Others	36,954	36,954
	₩ 3,901,260	3,903,518

(*1) As the accounting treatment for the acquisition of ANZ Retail business by Shinhan Bank Vietnam Co. Ltd. was completed, the amount was adjusted retrospectively.

ii) Changes in goodwill for the years ended December 31, 2017 and 2018

	2017 (*1)	2018
Beginning balance	₩ 3,873,060	3,901,260
Acquisitions through business combinations (*2)	28,200	2,258
Ending balance	₩ 3,901,260	3,903,518

(*1) As the accounting treatment for the acquisition of ANZ Retail business by Shinhan Bank Vietnam Co. Ltd. was completed, the amount was adjusted retrospectively (Note 57).

(*2) Goodwill recognized as a result of the acquisition of the business by Shinhan Financial Investment Co., Ltd. (Note 58).

iii) Goodwill impairment test

The recoverable amounts of each CGU were evaluated based on their respective value in use.

Explanation on evaluation method

The income approach was applied when evaluating the recoverable amounts based on value in use, considering the characteristics of each unit or group of CGU.

Projection period

When evaluating the value in use, 5.5 years of cash flow estimates July 1, 2018 through December 31, 2023 was used in projection and the value thereafter was reflected as terminal value. In case of Shinhan Life Insurance, only the 30 years of future cash flows were applied since the present value of the future cash flows thereafter is not significant.

Discount rates and terminal growth rates

The required rates of return expected by shareholders were applied to the discount rates by calculating the cost of capital which comprises a risk-free interest rate, a market risk premium and systemic risk (beta factor). Expected terminal growth rate is on the basis of inflation rates.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

19. Intangible assets (continued)

Discount rates and terminal growth rates applied to each CGU are as follows:

	Discount rates(%)	Terminal growth rate(%)
Banking	7.0~13.8	1.2~2.9
Credit card	8.4	1.8
Securities	11.9, 12.4	2.9
Life insurance	8.5	0.0
Others	9.8, 13.2	1.8

iv) Key assumptions

Key assumptions used in the discounted cash flow calculations of CGUs (other than Shinhan Life Insurance) are as follows:

	2018	2019	2020	2021	2022	2023
CPI growth	1.6%	1.7%	1.5%	2.1%	2.3%	2.3%
Real retail sales growth	3.0%	2.4%	2.2%	2.3%	2.2%	2.2%
Real GDP growth	2.9%	2.8%	2.4%	3.2%	3.0%	3.0%

Key assumptions used in the discounted cash flow calculations of Shinhan Life Insurance are as follows:

	Key assumptions
Rate of return on investment	3.65%
Risk-based capital ratio	199.61%

The values for the CPI growth rate, real retail sales growth rate, real GDP growth rate, rate of return on investment and risk-based capital ratio are based on a combination of internal and external analysis.

v) Total recoverable amount and total carrying value of CGUs to which goodwill has been allocated, are as follows:

	Amount
Total recoverable amount	₩ 42,291,637
Total carrying value	37,775,928
	₩ 4,515,709

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

20. Investments in associates

(a) Investments in associates as of December 31, 2017 and December 31, 2018 are as follows:

Investees	Country	Reporting date	Ownership (%)	
			2017	2018
BNP Paribas Cardif Life Insurance (*1)(*3)	Korea	September 30	14.99	14.99
Daewontos Co., Ltd. (*1)(*4)		December 31	36.33	36.33
Neoplux Technology Valuation Investment Fund (*1)		September 30	33.33	33.33
JAEYOUNG SOLUTEC CO., LTD. (*7)			9.61	
Partners 4th Growth Investment Fund (*1)		September 30	25.00	25.00
Songrim Partners. (*1)(*4)			35.34	35.34
KTB Newlake Global Healthcare PEF (*1)			30.00	30.00
JAEYANG INDUSTRY (*1)(*4)		December 31	25.90	25.90
Chungyoung INC (*10)			18.94	
DAEKWANG SEMICONDUCTOR CO., LTD. (*1)(*4)		September 30	20.94	20.94
Shinhan-Neoplux Energy Newbiz Fund (*1)			23.33	23.33
Shinhan-Albatross Tech Investment Fund		December 31	50.00	50.00
Asia Pacific No.39 Ship Investment Co., Ltd. (*7)			50.00	
KCLAVIS Meister Fund No.17		December 31	26.09	26.09
SG No.9 Corporate Recovery Private Equity Fund			26.49	26.49
Plutus-SG Private Equity Fund			26.67	26.67
SG ARGES Private Equity Fund No.1			24.06	24.06
OST Progress- 2 Fund (*7)			27.62	
Eum Private Equity Fund No.3		December 31	20.76	20.76
Richmond Private Yong in Retail Facility Real Estate Fund No.1 (*7)			41.80	
KTB Confidence Private Placement		December 31	30.29	30.29
Meritz AI-SingA330-A Investment Type Private Placement Special Asset Fund			23.89	23.89
Meritz AI-SingA330-B Investment Type Private Placement Special Asset Fund			20.16	20.16
Pine Asia Unsecured Individual Rehabilitation Bond Fund 18 (*7)			22.86	
VOGO DEBT STRATEGY QUALIFIED INV PRIVATE R/E INV TR 4		December 31	20.00	20.00
			98.77	98.77

Platform Partners Brick Save Private Investment Trust
(*6)

Synergy-Shinhan Mezzanine New Technology Investment Fund		47.62	47.62
The Asia Pacific Capital Fund II L.P.	Cayman Islands	25.18	25.18
Shinhan Praxis K-Growth Global Private Equity Fund (*5)	Korea	18.87	18.87
Credian Healthcare Private Equity Fund II		34.07	34.07
Kiwoom Milestone Professional Private Real Estate Trust 19		50.00	50.00
AIP EUROGREEN Private Real Estate Investment Trust No.3 (*11)		21.28	21.28

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

20. Investments in associates (continued)

Investees	Country	Reporting date	Ownership (%)	
			2017	2018
Brain Professional Private Trust No.4			27.49	27.50
Hanhwa US Equity Strategy Private Real Estate Fund No.1			44.84	44.84
Brain KS Qualified Privately Placed Fund No.6			50.00	50.00
M360 CRE Income Fund (*7)	U.S.A		57.87	
Shinhan Global Healthcare Fund 1 (*5)	Korea	December 31	4.41	4.41
JB Power TL Investment Type Private Placement Special Asset Fund 7			33.33	33.33
IBK AONE convertible 1			47.25	47.25
Rico Synergy Collabo Multi-Mezzanine 3 (*9)			50.00	50.03
KB NA Hickory Private Special Asset Fund			37.50	37.50
GB Professional Private Investment Trust 6 (*6)			94.51	94.51
Koramco Europe Core Private Placement Real Estate Fund No.2-2			48.49	44.02
SHBNPP Private Korea Equity Long-Short Professional Feeder (*8)			9.85	21.52
Shinhan-Stonebridge Petro PEF (*5)			1.82	1.82
BNP Paribas Cardif General Insurance (*1)(*2)		September 30	10.00	10.00
Axis Global Growth New Technology Investment Association		December 31	31.85	31.85
Polaris No7 Start up and Venture Private Equity Fund			28.57	28.57
Hermes Private Investment Equity Fund			29.17	29.17
Shinhan AIM FoF Fund 1a				24.91
Daishin Heim Qualified Investor Private Investment Trust No.1808				34.48
Heungkuk High Class Professional Trust Private Fund 37				50.00
IGIS Global Credit Fund 150-1				25.11
GX SHINHAN INTERVEST 1st Private Equity Fund				25.27
Soo Commerce Platform Growth Fund				24.62
Partner One Value up I Private Equity Fund				27.91
Genesis No.1 Private Equity Fund				22.80
GMB ICT New Technology Investment Fund				26.75
Soo Delivery Platform Growth Fund				30.00
Genesis North America Power Company No.1 PEF				39.92

- (*1) The latest financial statements were used for the equity method since the financial statements as of December 31, 2018 were not available. Significant trades and events occurred within the period were properly reflected.
- (*2) The Group applies the equity method accounting as the Group has significant influence on the financial and operating policies of the investee through the ability to elect investees board members and representation in decision making bodies of the investee.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

20. Investments in associates (continued)

- (*3) The Group applies the equity method accounting as the Group has a significant influence on the investees through important business transactions.
- (*4) As a part of the rehabilitation process, the Group acquired shares through the conversion of equity investments; as the Group cannot exercise voting rights during the process, the Group has classified the shares as investments at fair value through profit or loss. The Group reclassified Securities at fair value through profit or loss to investments in associates as the reorganization procedures were completed and now the Group can normally exercise its voting rights to the investees.
- (*5) As a managing partner, the Group has a significant influence over the investees.
- (*6) As a limited partner, the Group does not have an ability to participate in policy-making processes to obtain economic benefit from the investees that would allow the Group to control the entity.
- (*7) The associates were disposed or reclassified.
- (*8) Although the ownership interests were less than 20%, the Group has a significant influence.
- (*9) Although the ownership interests were more than 50%, the Group applies the equity method accounting as the Group does not have an ability to participate in the financial and operating policy-making process.
- (*10) These entities were excluded from the scope of associates due to the Shinhan Bank's accounting policy change, which is to change significant influence criteria from 15% to 20%.
- (*11) During this period, the name of FG EUROGREEN Private Real Estate Investment Trust No.3 has been changed to AIP EUROGREEN Private Real Estate Investment Trust No.3.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

20. Investments in associates (continued)

(b) Changes in investments in associates for the years ended December 31, 2017 and 2018 were as follows:

Investees	Beginning balance	Investment and dividend	2017		Ending balance
			Equity method income (loss)	Change in other comprehensive income impairment loss	
BNP Paribas Cardif Life Insurance	₩60,213	(255)	3,682	(11,024)	52,616
Aju Capital Co., Ltd.	40,836	(42,022)	438	748	
Daewontos Co., Ltd. (*2)					
Neoplux Technology Valuation Investment Fund	7,526	3,890	1,564	490	13,470
JAEYOUNG SOLUTEC CO., LTD. (*1)	5,736		(2,009)	122	3,849
Partners 4th Growth Investment Fund	4,555	9,220	(385)		13,390
JAEYANG INDUSTRY (*2)					
Chungyoung INC (*2)					
DAEKWANG SEMICONDUCTOR CO., LTD.	4,776		(952)		3,824
Dream High Fund III	3,144		(109)	(830)	2,205
Asia Pacific No.39 Ship Investment Co., Ltd.	5,176	(802)	300	8	4,682
KCLAVIS Meister Fund No.17	2,989		50		3,039
SG No.9 Corporate Recovery Private Equity Fund	3,982	(192)	173		3,963
Plutus-SG Private Equity Fund	4,299	(132)	84		4,251
SG ARGES Private Equity Fund No.1	8,976	(2,754)	200		6,422
OST Progress- 2 Fund	1,460	3,500	(65)		4,895
Eum Private Equity Fund No.3	5,933	(1,362)	354		4,925
Richmond Private Yong in Retail Facility Real Estate Fund No.1		7,223	878		8,101
KTB Confidence Private Placement		4,927	377	1,099	6,403
Meritz AI-SingA330-A Investment Type Private Placement Special Asset Fund		6,504	457	(204)	6,757
Meritz AI-SingA330-B Investment Type Private Placement Special Asset Fund		8,012	628	(253)	8,387
		5,867	145		6,012

Pine Asia Unsecured Individual Rehabilitation Bond Fund 18					
Platform Partners Brick Save Private Investment Trust		7,877	192		8,069
Synergy-Shinhan Mezzanine New Technology Investment Fund		5,000	(1)		4,999
The Asia Pacific Capital Fund II L.P.	11,579	454	(901)	(3,825)	7,307
Shinhan Praxis K-Growth Global Private Equity Fund	13,533	6,415	(1,590)	596	18,954
Credian Healthcare Private Equity Fund II	4,087		7	(281)	3,813
Kiwoom Milestone Professional Private Real Estate Trust 19	₩ 10,761	(222)	(131)		10,408

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

20. Investments in associates (continued)

Investees	Beginning balance	Investment and dividend	2017		Ending balance
			Equity method income (loss)	Change in other comprehensive income	
FG EURO GREEN PRIVATE REAL ESTATE TRUST No.3	₩ 21,237	(841)	641	(577)	20,460
Brain Professional Private Trust No.4	5,316		529	2	5,847
Hanhwa US Equity Strategy Private Real Estate Fund No.1	25,764	(1,859)	1,591	(17)	25,479
Brain KS Qualified Privately Placed Fund No.6	4,896		(78)	(13)	4,805
M360 CRE Income Fund	23,167	132,768	9,270	(11,300)	153,905
Shinhan Global Healthcare Fund 1		3,440	(33)		3,407
JB Power TL Investment Type Private Placement Special Asset Fund 7		18,268	422		18,690
IBK AONE convertible 1		5,000	122		5,122
Rico synergy collabo Multi-Mezzanine 3		5,001	25		5,026
KB NA Hickory Private Special Asset Fund		33,362	729		34,091
GB PROFESSIONAL PRIVATE INVESTMENT TRUST 6		8,600			8,600
Koramco Europe Core Private Real Estate Trust No.2-2		21,408	(648)		20,760
SHBNPP Private Korea Equity Long-Short Professional Feeder	14,180	(9,972)	653		4,861
SHBNPP Private Multi Strategy Professional Feeder No.1	5,014	(5,049)	35		
Shinhan-Stonebridge Petro PEF	18,487		714		19,201
BNP Paribas Cardif General Insurance	2,584	2,750	(910)	5	4,429
Axis Global Growth New Technology Investment Association		5,000	(47)		4,953
Polaris No.7 Entrepreneur Private Equity Fund		4,400	(41)		4,359
		17,500	(3)		17,497

Hermes Private Investment Equity Fund						
Others	33,394	21,820	4,036	(45)	(144)	59,061
	₩ 353,600	282,744	20,393	(25,299)	(144)	631,294

(*1) The market value of the investment is ₩6,826 million as of December 31, 2017 based on the quoted market price.

(*2) The Group has stopped recognizing its equity method income or loss due to the investees' cumulative loss.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

20. Investments in associates (continued)

Investees	Beginning balance	Investment and dividend	Equity method income (loss)	2018		Ending balance
				Change in comprehensive income	Impairment loss	
BNP Paribas Cardif Life Insurance	₩ 52,616	(2,043)	783	(1,540)		49,816
Daewontos Co., Ltd. (*1)						
Songrim Partners. (*1)	48		(48)			
Neoplux Technology Valuation Investment Fund	13,470	6,000	(242)	(490)		18,738
JAEYOUNG SOLUTEC CO., LTD.	3,849	(2,865)	(836)	(148)		
Partners 4th Growth Investment Fund	13,390	2,597	625			16,612
JAEYANG INDUSTRY (*1)						
KTB Newlake Global Healthcare PEF	2,653	7,470	(238)			9,885
DAEKWANG SEMICONDUCTOR CO., LTD.	3,824		(490)			3,334
Shinhan-Neoplux Energy Newbiz Fund	1,400	2,800	(226)			3,974
Shinhan-Albatross Tech Investment Fund	2,672	6,000	(70)	306		8,908
Asia Pacific No.39 Ship Investment Co., Ltd.	4,682	(4,803)	121			
KCLAVIS Meister Fund No.17	3,039		44			3,083
SG No.9 Corporate Recovery Private Equity Fund	3,963	(3,102)	566			1,427
Plutus-SG Private Equity Fund	4,251	(132)	133			4,252
SG ARGES Private Equity Fund No.1	6,422	(2,295)	214			4,341
OST Progress- 2 Fund	4,895	(4,895)				
Eum Private Equity Fund No.3	4,925	(277)	241			4,889
Richmond Private Yong in Retail Facility Real Estate Fund No.1	8,101	(10,286)	2,185			
KTB Confidence Private Placement	6,403	(389)	387	(1,099)		5,302
Meritz AI-SingA330-A Investment Type Private Placement Special Asset Fund	6,757	(1,518)	193			5,432
Meritz AI-SingA330-B Investment Type Private Placement Special Asset Fund	8,387	(305)	347			8,429

Pine Asia Unsecured Individual Rehabilitation Bond Fund 18	6,012	(6,035)	23			
VOGO DEBT STRATEGY QUALIFIED INV PRIVATE R/E INV TR 4	1,638	3,060	133			4,831
Platform Partners Brick Save Private Investment Trust	8,069	(496)	547			8,120
Synergy-Shinhan Mezzanine New Technology Investment Fund	4,999	5,000	150			10,149
The Asia Pacific Capital Fund II L.P.	₩ 7,307	(3,004)	(656)	2,602	(5,849)	400

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

20. Investments in associates (continued)

Investees	Beginning balance	Investment and dividend	2018		Ending balance
			Equity method income (loss)	Change in other comprehensive income Impairment loss	
Shinhan Praxis K-Growth Global Private Equity Fund	₩ 18,954	(7,473)	5,046		16,527
Credian Healthcare Private Equity Fund II	3,813		740		4,553
Kiwoom Milestone Professional Private Real Estate Trust 19	10,408	(199)	210		10,419
AIP EURO GREEN PRIVATE REAL ESTATE TRUST No.3	20,460	(1,253)	1,337		20,544
Brain Professional Private Trust No.4	5,847	(1,274)	671		5,244
Hanhwa US Equity Strategy Private Real Estate Fund No.1	25,479	(2,000)	2,753		26,232
Brain KS Qualified Privately Placed Fund No.6	4,805		292		5,097
M360 CRE Income Fund	153,905	(171,215)	6,183	11,127	
Shinhan Global Healthcare Fund 1	3,407		(122)		3,285
JB Power TL Investment Type Private Placement Special Asset Fund 7	18,690	(2,075)	869		17,484
IBK AONE convertible 1	5,122		784		5,906
Rico synergy collabo Multi-Mezzanine 3	5,026		264		5,290
KB NA Hickory Private Special Asset Fund	34,091	(1,560)	1,829		34,360
GB Professional Private Investment Trust 6	8,600		(12)		8,588
Koramco Europe Core Private Placement Real Estate Fund No.2-2	20,760	(2,357)	213		18,616
SHBNPP Private Korea Equity Long-Short Professional Feeder	4,861	9,412	97		14,370
Shinhan-Stonebridge Petro PEF	19,201	(1,133)	613		18,681
BNP Paribas Cardif General Insurance	4,429		(1,026)	20	3,423
Axis Global Growth New Technology Investment Association	4,953		(78)		4,875

Polaris No7 Start up and Venture Private Equity Fund	4,359		(21)	4,338
Hermes Private Investment Equity Fund	17,497	(5,158)	(5,274)	7,065
Shinhan AIM FoF Fund 1a		4,125	226	4,351
Daishin Heim Qualified Investor Private Investment Trust No.1808		9,786	340	10,126
Heungkuk High Class Professional Trust Private Fund 37		9,178	260	9,438
IGIS Global Credit Fund 150-1		8,529	367	8,896
GX SHINHAN INTERVEST 1st Private Equity Fund	₩	34,900	(3,069)	31,831

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

20. Investments in associates (continued)

Investees	Beginning balance	Investment and dividend	Equity method income (loss)	2018		Ending balance
				Change in other comprehensive income	Impairment loss	
Soo Commerce Platform Growth Fund	₩	6,500	(122)			6,378
Partner One Value up I Private Equity Fund		12,000	(61)			11,939
Genesis No.1 Private Equity Fund		46,068	(310)			45,758
GMB ICT New Technology Investment Fund		8,000	(66)			7,934
Soo Delivery Platform Growth Fund		9,000	(17)			8,983
Genesis North America Power Company No.1 PEF		21,592	(768)			20,824
SHBNPP MAIN Professional Investment Type Private Mixed Asset Investment Trust No.3		6,300	(96)			6,204
Others (*2)	52,855	37,442	1,550	2		91,849
	₩ 631,294	17,617	17,488	10,780	(5,849)	671,330

(*1) The Group has stopped recognizing its equity method income or loss due to the investees' cumulative loss.

(*2) Disposal by account reclassification includes non-cash flow.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

20. Investments in associates (continued)

- (c) The statement of financial information as of and for the year ended December 31, 2017 and 2018 were as follows:

Investees	2017					
	Asset	Liability	Operating revenue	Net profit (loss)	Other comprehensive income (loss)	Total comprehensive income (loss)
BNP Paribas Cardif Life Insurance	₩ 4,133,674	3,781,688	78,010	24,230	(73,495)	(49,265)
Daewontos Co., Ltd.	400	2,492				
Neoplux Technology Valuation Investment Fund	40,692	283	5,895	4,691	1,471	6,162
JAEYOUNG SOLUTEC CO., LTD.	157,009	137,916	142,228	(22,756)	2,764	(19,992)
Partners 4th Growth Investment Fund	53,944	383	137	(1,540)		(1,540)
JAEYANG INDUSTRY Chungyoung INC	2,146	4,717				
	3,292	8,392	5,568	(693)		(693)
DAEKWANG SEMICONDUCTOR CO., LTD.	29,069	10,806	13,929	(4,549)		(4,549)
Dream High Fund III	4,076	34	27	(200)	(1,522)	(1,722)
Asia Pacific No.39 Ship Investment Co., Ltd.	9,389	27	666	616	32	648
KCLAVIS Meister Fund No.17	11,694	42	425	194		194
SG No.9 Corporate Recovery Private Equity Fund	15,035	76	(157)	652		652
Plutus-SG Private Equity Fund	16,009	69	317	316		316
SG ARGES Private Equity Fund No.1	26,758	69	(351)	832		832
OST Progress- 2 Fund	17,829	107	(234)	(234)		(234)
Eum Private Equity Fund No.3	23,725	5	1,614	1,649		1,649
Richmond Private Yong in Retail Facility Real Estate Fund No.1	48,006	28,624	2,265	2,100		2,100
KTB Confidence Private Placement	42,230	21,090	1,604	1,242	3,629	4,871

Meritz AI-SingA330-A Investment Type Private Placement Special Asset Fund	28,286	1	1,914	1,913	(856)	1,057
Meritz AI-SingA330-B Investment Type Private Placement Special Asset Fund	41,599	1	3,117	3,116	(1,257)	1,859
Pine Asia Unsecured Individual Rehabilitation Bond Fund 18	26,316	14	648	634		634
Platform Partners Brick Save Private Investment Trust	8,441	271	207	194		194
Synergy-Shinhan Mezzanine New Technology Investment Fund	10,500	3		(3)		(3)
The Asia Pacific Capital Fund II L.P.	29,103	88		(3,582)	(10,269)	(13,851)
Shinhan Praxis K-Growth Global Private Equity Fund	100,805	353	7,273	(8,428)	3,156	(5,272)
Credian Healthcare Private Equity Fund II	₩ 11,236	47	211	19	(823)	(804)

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

20. Investments in associates (continued)

Investees			2017		Other comprehensive income (loss)	Total comprehensive income (loss)
	Asset	Liability	Operating revenue	Net profit (loss)		
Kiwoom Milestone Professional Private Real Estate Trust 19	₩ 57,405	36,589	2,742	(262)		(262)
FG EURO GREEN PRIVATE REAL ESTATE TRUST No.3	97,203	1,066	5,851	3,012	(2,713)	299
Brain Professional Private Trust No.4	21,369	105	2,942	1,925		1,925
Hanhwa US Equity Strategy Private Real Estate Fund No.1	56,898	78	11,562	3,549	(37)	3,512
Brain KS Qualified Privately Placed Fund No.6	9,639	28	3	(110)	(72)	(182)
M360 CRE Income Fund	265,945		7	14,179		14,179
Shinhan Global Healthcare Fund 1	77,166		3	(757)		(757)
JB Power TL Investment Type Private Placement Special Asset Fund 7	56,125	53	7,115	1,267		1,267
IBK AONE convertible 1	10,840		279	258		258
Rico Synergy Collabo Multi-Mezzanine 3	10,054	3	371	50		50
KB NA Hickory Private Special Asset Fund	90,978	67	11,092	1,945		1,945
GB PROFESSIONAL PRIVATE INVESTMENT TRUST 6	9,101	1	1			
Koramco Europe Core Private Placement Real Estate Fund No.2-2	44,886	2,074	2,503	(1,337)		(1,337)
SHBNPP Private Korea Equity Long-Short Professional Feeder	54,029	4,733	28,956	9,356		9,356
Shinhan-Stonebridge Petro PEF	1,056,401	2,740	39,170	39,170		39,170
BNP Paribas Cardif General Insurance	59,699	15,405	10,093	(9,294)	94	(9,200)
	15,553		(147)	(147)		(147)

Axis Global Growth New Technology Investment Association						
Polaris No7 Start up and Venture Private Equity Fund	15,280	22	(142)	(142)		(142)
Hermes Private Investment Equity Fund	60,000	10	(10)	(10)		(10)
	₩ 6,959,834	4,060,572	387,704	63,065	(79,898)	(16,833)

(*) As of December 31, 2017, the Group has discontinued the application of the equity method of accounting and excluded the financial information of the associates for which financial information is not available.

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Notes to the Consolidated Financial Statements

(In millions of won)

20. Investments in associates (continued)

Investees	2018					
	Asset	Liability	Operating revenue	Net profit (loss)	Other comprehensive income (loss)	Total comprehensive income (loss)
BNP Paribas Cardif Life Insurance	₩ 3,995,746	3,662,567	53,756	5,191	(10,268)	(5,077)
Daewontos Co., Ltd.	400	2,492				
Songrim Partners.	2,288	2,311	1,898	(164)		(164)
Neoplux Technology Valuation Investment Fund	57,018	804	390	(724)	(1,969)	(2,693)
Partners 4th Growth Investment Fund	67,403	954	4,424	3,025		3,025
JAEYANG INDUSTRY	2,146	4,717				
KTB Newlake Global Healthcare PEF	32,508	123	69	(793)		(793)
DAEKWANG SEMICONDUCTOR CO., LTD.	25,459	9,537	15,794	(2,341)		(2,341)
Shinhan-Neoplux Energy Newbiz Fund	17,347	315	19	(968)		(968)
Shinhan-Albatross Tech Investment Fund	18,009	182	299	(435)	917	482
KCLAVIS Meister Fund No.17	11,866	47	398	167		167
SG No.9 Corporate Recovery Private Equity Fund	5,566	181		2,136		2,136
Plutus-SG Private Equity Fund	16,012	69	778	499		499
SG ARGES Private Equity Fund No.1	18,085	46		888		888
Eum Private Equity Fund No.3	23,552	5	1,667	1,311		1,311
KTB Confidence Private Placement	38,559	21,054	506	256	(3,629)	(3,373)
Meritz AI-SingA330-A Investment Type Private Placement Special Asset Fund	22,739	1	1,451	62		62
Meritz AI-SingA330-B Investment Type Private Placement Special Asset Fund	41,809	2	3,027	1,044		1,044
VOGO DEBT STRATEGY QUALIFIED INV PRIVATE R/E	24,174	15	3,046	1,165		1,165

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Platform Partners brick save Private Investment trust		8,286	64	809	763	763
Synergy-Shinhan Mezzanine New Technology Investment Fund	₩	21,312		553	331	331

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

20. Investments in associates (continued)

Investees	2018					
	Asset	Liability	Operating revenue	Net profit (loss)	Other comprehensive income (loss)	Total comprehensive income (loss)
The Asia Pacific Capital Fund II L.P.	₩ 1,674	86	1	(25,828)		(25,828)
Shinhan Praxis K-Growth Global Private Equity Fund	87,897	307	31,059	26,381		26,381
Credian Healthcare Private Equity Fund II	13,408	47	2,364	2,171		2,171
Kiwoom Milestone Professional Private Real Estate Trust 19	57,678	36,839	3,383	422		422
AIP EURO GREEN PRIVATE REAL ESTATE TRUST No.3	96,624	86	18,700	6,287		6,287
Brain Professional Private Trust No.4	19,113	46	4,306	2,435		2,435
Hanhwa US Equity Strategy Private Real Estate Fund No.1	58,575	77	10,098	6,139		6,139
Brain KS Qualified Privately Placed Fund No.6	10,089		812	477		477
Shinhan Global Healthcare Fund 1	74,409		4	(2,757)		(2,757)
JB Power TL Investment Type Private Placement Special Asset Fund 7	52,627	174	9,878	2,607		2,607
IBK AONE convertible 1	12,807	307	2,042	1,660		1,660
Rico Synergy Collabo Multi-Mezzanine 3	10,736	161	686	529		529
KB NA Hickory Private Special Asset Fund	91,694	67	9,601	4,877		4,877
GB Professional Private Investment Trust 6	9,088	1	1	(13)		(13)
Koramco Europe Core Private Placement Real Estate Fund No.2-2	44,491	2,202	6,470	878		878
SHBNPP Private Korea Equity Long-Short Professional Feeder	77,465	10,728	18,729	728		728
Shinhan-Stonebridge Petro PEF	1,025,884	807	36,968	33,616		33,616

BNP Paribas Cardif General Insurance	51,211	16,986	10,972	(10,264)	196	(10,069)
Axis Global Growth New Technology Investment Association	15,308		1	(245)		(245)
Polaris No7 Start up and Venture Private Equity Fund	15,193	10		(75)		(75)
Hermes Private Investment Equity Fund	24,233	8	6	(18,025)		(18,025)
Shinhan AIM FoF Fund 1a	17,478	11	3,004	342		342
Daishin Heim Qualified Investor Private Investment Trust No.1808	29,770	405	806	741		741
Heungkuk High Class Professional Trust Private Fund 37	₩ 20,523	1,646	1,045	1,005		1,005

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

20. Investments in associates (continued)

Investees	Asset	Liability	2018		Other comprehensive income (loss)	Total comprehensive income (loss)
			Operating revenue	Net profit (loss)		
IGIS Global Credit Fund 150-1	₩ 35,453	27	3,457	214		214
GX SHINHAN INTERVEST 1st Private Equity Fund	125,954		6	(12,146)		(12,146)
Soo Commerce Platform Growth Fund	25,905	3		(497)		(497)
Partner One Value up I Private Equity Fund	42,776		326	(224)		(224)
Genesis No.1 Private Equity Fund	201,103	434		(1,360)		(1,360)
GMB ICT New Technology Investment Fund	29,657		3	(242)		(242)
Soo Delivery Platform Growth Fund	29,946	2		(56)		(56)
Genesis North America Power Company No.1 PEF	52,393	223	1	(1,922)		(1,922)
SHBNPP MAIN Professional Investment Type Private Mixed Asset Investment Trust No.3	26,826	237	2	(411)		(411)
	₩6,938,272	3,777,413	263,615	28,857	(14,753)	14,103

(*) As of December 31, 2018, the Group has discontinued the application of the equity method of accounting and excluded the financial information of the associates for which financial information is not available.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

20. Investments in associates (continued)

- (d) Reconciliation of the financial information to the carrying values of its interests in the associates as of December 31, 2017 and 2018 are as follows:

Investees	Net assets (a)	2017 Ownership in the net interests		Intra-group transactions	Other	Carrying Value
		(%) (b)	assets (a)*(b)			
BNP Paribas Cardif Life Insurance	₩ 351,986	14.99	52,763	(147)		52,616
Daewontos Co., Ltd. (*1)	(2,092)	36.33	(760)		760	
Neoplux Technology Valuation Investment Fund	40,409	33.33	13,470			13,470
JAEYOUNG SOLUTEC CO., LTD. (*2)	17,484	9.61	1,680		2,169	3,849
Partners 4th Growth Investment Fund	53,561	25.00	13,390			13,390
JAEYANG INDUSTRY (*3)	(2,571)	25.90	(666)		666	
Chungyoung INC (*3)	(5,100)	18.94	(966)		966	
DAEKWANG SEMICONDUCTOR CO., LTD.	18,263	20.94	3,824			3,824
Dream High Fund III	4,042	54.55	2,205			2,205
Asia Pacific No.39 Ship Investment Co., Ltd.	9,362	50.00	4,682			4,682
KCLAVIS Meister Fund No.17	11,652	26.09	3,039			3,039
SG No.9 Corporate Recovery Private Equity Fund	14,959	26.49	3,963			3,963
Plutus-SG Private Equity Fund	15,940	26.67	4,251			4,251
SG ARGES Private Equity Fund No.1	26,689	24.06	6,422			6,422
OST Progress- 2 Fund	17,722	27.62	4,895			4,895
Eum Private Equity Fund No.3	23,720	20.76	4,925			4,925
Richmond Private Yong in Retail Facility Real Estate Fund No.1	19,382	41.80	8,101			8,101
KTB Confidence Private Placement	21,140	30.29	6,403			6,403
Meritz AI-SingA330-A Investment Type Private Placement Special Asset Fund	28,285	23.89	6,757			6,757
Meritz AI-SingA330-B Investment Type Private Placement Special Asset Fund	41,598	20.16	8,387			8,387
	26,302	22.86	6,012			6,012

Pine Asia Unsecured Individual Rehabilitation Bond Fund 18				
Platform Partners Brick Save Private Investment Trust	8,170	98.77	8,069	8,069
Synergy-Shinhan Mezzanine New Technology Investment Fund	10,497	47.62	4,999	4,999
The Asia Pacific Capital Fund II L.P.	29,015	25.18	7,307	7,307
Shinhan Praxis K-Growth Global Private Equity Fund	100,452	18.87	18,954	18,954
Credian Healthcare Private Equity Fund II	11,189	34.07	3,813	3,813
Kiwoom Milestone Professional Private Real Estate Trust 19	20,816	50.00	10,408	10,408
FG EURO GREEN PRIVATE REAL ESTATE TRUST No.3	₩ 96,137	21.28	20,460	20,460

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

20. Investments in associates (continued)

Investees	Net assets (a)	Ownership (%) (b)	2017 Interests in the net		Carrying Value	
			assets (a)*(b)	Intra-group transactions		Other
Brain Professional Private Trust No.4	₩ 21,264	27.49	5,847		5,847	
Hanhwa US Equity Strategy Private Real Estate Fund No.1	56,820	44.84	25,479		25,479	
Brain KS Qualified Privately Placed Fund No.6	9,611	50.00	4,805		4,805	
M360 CRE Income Fund	265,945	57.87	153,905		153,905	
Shinhan Global Healthcare Fund 1	77,166	4.41	3,407		3,407	
JB Power TL Investment Type Private Placement Special Asset Fund 7	56,072	33.33	18,690		18,690	
IBK AONE convertible 1	10,840	47.25	5,122		5,122	
Rico Synergy Collabo Multi-Mezzanine 3	10,051	50.00	5,026		5,026	
KB NA Hickory Private Special Asset Fund	90,911	37.50	34,091		34,091	
GB PROFESSIONAL PRIVATE INVESTMENT TRUST 6	9,100	94.51	8,600		8,600	
Koramco Europe Core Private Placement Real Estate Fund No.2-2	42,812	48.49	20,760		20,760	
SHBNPP Private Korea Equity Long-Short Professional Feeder	49,296	9.85	4,861		4,861	
Shinhan-Stonebridge Petro PEF	1,053,661	1.82	19,201		19,201	
BNP Paribas Cardif General Insurance	44,294	10.00	4,429		4,429	
Axis Global Growth New Technology Investment Association	15,553	31.85	4,953		4,953	
Polaris No7 Start up and Venture Private Equity Fund	15,258	28.57	4,359		4,359	
Hermes Private Investment Equity Fund	59,990	29.17	17,497		17,497	
Others	218,647		58,362	699	59,061	
	₩ 3,116,300		626,181	(147)	5,260	631,294

- (*1) Other adjustments represent the unrecognized equity method losses because the Group has stopped recognizing its equity method losses as the balance of the investment has been reduced to zero.
- (*2) Net assets do not include non-controlling interests and other adjustments represent the difference between the cost of the investment and the Group's interests in the net carrying value of the investee's assets and liabilities at the investment date.
- (*3) Other adjustments represent the unrecognized equity method losses because the Group has stopped recognizing its equity method losses as the balance of the investment has been reduced to zero and the difference between the cost of the investment and the Group's interests in the net carrying value of the investee's assets and liabilities at the investment date.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

20. Investments in associates (continued)

Investees	Net assets (a)	2018		Intra-group transactions	Other	Carrying Value
		Ownership (%) (b)	Interests in the net assets (a)*(b)			
BNP Paribas Cardif Life Insurance	₩ 333,179	14.99	49,952	(136)		49,816
Daewontos Co., Ltd. (*1)	(2,092)	36.33	(760)		760	
Songrim Partners (*1)	(23)	35.34	(8)		8	
Neoplux Technology Valuation Investment Fund	56,214	33.33	18,738			18,738
Partners 4th Growth Investment Fund	66,449	25.00	16,612			16,612
JAERYANG INDUSTRY (*2)	(2,571)	25.90	(666)		666	
KTB Newlake Global Healthcare PEF (*3)	32,385	30.00	9,715		170	9,885
DAEKWANG SEMICONDUCTOR CO., LTD.	15,922	20.94	3,334			3,334
Shinhan-Neoplux Energy Newbiz Fund	17,032	23.33	3,974			3,974
Shinhan-Albatross Tech Investment Fund	17,827	50.00	8,908			8,908
KCLAVIS Meister Fund No.17	11,819	26.09	3,083			3,083
SG No.9 Corporate Recovery Private Equity Fund	5,385	26.49	1,427			1,427
Plutus-SG Private Equity Fund	15,943	26.67	4,252			4,252
SG ARGES Private Equity Fund No.1	18,039	24.06	4,341			4,341
Eum Private Equity Fund No.3	23,547	20.76	4,889			4,889
KTB Confidence Private Placement	17,505	30.29	5,302			5,302
Meritz AI-SingA330-A Investment Type Private Placement Special Asset Fund	22,738	23.89	5,432			5,432
Meritz AI-SingA330-B Investment Type Private Placement Special Asset Fund	41,807	20.16	8,429			8,429
VOGO DEBT STRATEGY QUALIFIED INV PRIVATE R/E INV TR 4	24,159	20.00	4,831			4,831
Platform Partners brick save Private Investment trust	8,222	98.77	8,120			8,120
Synergy-Shinhan Mezzanine New Technology Investment Fund	21,312	47.62	10,149			10,149
The Asia Pacific Capital Fund II L.P.	1,588	25.18	400			400
Shinhan Praxis K-Growth Global Private Equity Fund	87,590	18.87	16,527			16,527

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Credian Healthcare Private Equity Fund II	13,361	34.07	4,553	4,553
Kiwoom Milestone Professional Private Real Estate Trust 19	20,839	50.00	10,419	10,419
AIP EURO GREEN PRIVATE REAL ESTATE TRUST No.3	96,538	21.28	20,544	20,544
Brain Professional Private Trust No.4	19,067	27.50	5,244	5,244
Hanhwa US Equity Strategy Private Real Estate Fund No.1	58,498	44.84	26,232	26,232
Brain KS Qualified Privately Placed Fund No.6	10,089	50.00	5,097	5,097
Shinhan Global Healthcare Fund 1	74,409	4.41	3,285	3,285
JB Power TL Investment Type Private Placement Special Asset Fund 7	52,453	33.33	17,484	17,484
IBK AONE convertible 1	12,500	47.25	5,906	5,906
Rico Synergy Collabo Multi-Mezzanine 3	₩ 10,575	50.03	5,290	5,290

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

20. Investments in associates (continued)

Investees	Net assets (a)	Ownership (%) (b)	2018		Carrying Value
			Interests in the net assets (a)*(b)	Intra-group transactions Other	
KB NA Hickory Private Special Asset Fund	₩ 91,627	37.50	34,360		34,360
GB Professional Private Investment Trust 6	9,087	94.51	8,588		8,588
Koramco Europe Core Private Placement Real Estate Fund No.2-2	42,289	44.02	18,616		18,616
SHBNPP Private Korea Equity Long-Short Professional Feeder	66,737	21.52	14,370		14,370
Shinhan-Stonebridge Petro PEF	1,025,077	1.82	18,681		18,681
BNP Paribas Cardif General Insurance	34,225	10.00	3,423		3,423
Axis Global Growth New Technology Investment Association	15,308	31.85	4,875		4,875
Polaris No.7 Start up and Venture Private Equity Fund	15,183	28.57	4,338		4,338
Hermes Private Investment Equity Fund	24,225	29.17	7,065		7,065
Shinhan AIM FoF Fund 1a	17,467	24.91	4,351		4,351
Daishin Heim Qualified Investor Private Investment Trust No.1808	29,365	34.48	10,126		10,126
Heungkuk High Class Professional Trust Private Fund 37	18,877	50.00	9,438		9,438
IGIS Global Credit Fund 150-1	35,426	25.11	8,896		8,896
GX SHINHAN INTERVEST 1st Private Equity Fund	125,954	25.27	31,831		31,831
Soo Commerce Platform Growth Fund	25,902	24.62	6,378		6,378
Partner One Value up I Private Equity Fund	42,776	27.91	11,939		11,939
Genesis No.1 Private Equity Fund	200,669	22.80	45,758		45,758
GMB ICT New Technology Investment Fund	29,657	26.75	7,934		7,934
Soo Delivery Platform Growth Fund	29,944	30.00	8,983		8,983
Genesis North America Power Company No.1 PEF	52,170	39.92	20,824		20,824

SHBNPP MAIN Professional Investment					
Type Private Mixed Asset Investment					
Trust No.3	26,589	23.33	6,204		6,204
Others	315,179		91,483	366	91,849
	₩ 3,476,038		669,496	(136)	1,970
					671,330

- (*1) Other adjustments represent the unrecognized equity method losses because the Group has stopped recognizing its equity method losses as the balance of the investment has been reduced to zero.
- (*2) Other on this investee represents the cumulative losses as the Group has stopped the equity method, and its carrying value becomes zero due to the adjustment for the difference between the cost of the investment and the Group's interests in the net carrying value of the investee's assets and liabilities at the investment date.
- (*3) Other adjustments represent the difference between the cost of the investment and the Group's interests in the net carrying value of the investee's assets and liabilities at the investment date.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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20. Investments in associates (continued)

(e) The unrecognized equity method losses as of and for the years ended December 31, 2017 and 2018 are as follows:

	Unrecognized equity method losses	2017 Cumulative unrecognized equity method losses
Investees		
Daewontos Co., Ltd.	₩	(760)
JAEYANG INDUSTRY		(18)
Chungyoung INC	(130)	(130)
	₩(130)	(908)

	Unrecognized equity method losses	2018 Cumulative unrecognized equity method losses
Investees		
Daewontos Co., Ltd.	₩	(760)
JAEYANG INDUSTRY		(18)
Songlim Partners.	(8)	(8)
	₩(8)	(786)

21. Investment properties

(a) Investment properties as of December 31, 2017 and 2018 are as follows:

	2017	2018
Acquisition cost	₩ 508,784	579,852
Accumulated depreciation	(90,481)	(105,032)

Book value	₩ 418,303	474,820
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(b) Changes in investment properties for the years ended December 31, 2017 and 2018 are as follows:

	2017	2018
Beginning balance	₩ 353,175	418,303
Acquisitions	2,125	115,333
Disposals	(6,277)	(13,608)
Depreciation	(16,095)	(16,917)
Amounts transferred from (to) property and equipment	91,782	(28,199)
Amounts transferred to assets held for sale (*)	(6,306)	
Foreign currency adjustment	(101)	(92)
Ending balance	₩ 418,303	474,820

(*) Comprise land and buildings, etc.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

21. Investment properties (continued)

- (c) Income and expenses on investment property for the years ended December 31, 2016, 2017 and 2018 were as follows:

	2016	2017	2018
Rental income	₩ 27,852	33,023	32,488
Direct operating expenses for investment properties that generated rental income	9,384	10,998	12,191

- (d) The fair value of investment property as of December 31, 2017 and 2018 is as follows:

	2017	2018
Land and buildings (*)	₩ 1,027,830	1,121,985

- (*) Fair value of investment properties is estimated based on the recent market transactions and certain significant unobservable inputs. Accordingly, fair value of investment properties is classified as level 3.

22. Other assets

Other assets as of December 31, 2017 and 2018 are as follows:

	2017	2018
Accounts receivable	₩ 6,295,129	7,666,217
Domestic exchange settlement debit	2,973,751	6,121,332
Guarantee deposits	1,158,693	1,152,434
Present value discount	(50,170)	(44,694)
Accrued income	1,624,992	1,896,822
Prepaid expense	163,727	194,040
Suspense payments	63,486	73,153
Sundry assets	53,034	92,221
Separate account assets	3,040,534	2,650,302
Advance payments	219,861	616,996

Unamortized deferred acquisition cost	888,262	786,134
Other	170,338	423,759
Allowances for impairment	(49,679)	(56,798)
	₩ 16,551,958	21,571,918

23. Leases

(a) Finance lease receivables of the Group as lessor as of December 31, 2017 and 2018 are as follows:

	2017		
	Gross investment	Unearned finance income	Present value of minimum lease payment
Not later than 1 year	₩ 688,358	76,677	611,681
1 ~ 5 years	1,176,334	86,280	1,090,054
Later than 5 years	16,226	585	15,641
	₩ 1,880,918	163,542	1,717,376

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

23. Leases (continued)

	2018		Present value of minimum lease payment
	Gross investment	Unearned finance income	
Not later than 1 year	₩ 595,427	85,333	510,094
1 ~ 5 years	1,306,571	106,333	1,200,238
Later than 5 years	16,529	38	16,491
	₩ 1,918,527	191,704	1,726,823

(b) The scheduled maturities of minimum lease payments for finance and operating leases of the Group as lessor as of December 31, 2017 and 2018 are as follows:

i) Finance lease

	2017		Present value of minimum lease payment
	Minimum lease payment	Present value adjustment	
Not later than 1 year	₩ 688,358	76,677	611,681
1 ~ 5 years	1,176,334	86,280	1,090,054
Later than 5 years	16,226	585	15,641
	₩ 1,880,918	163,542	1,717,376

	2018		Present value of minimum lease
	Minimum lease payment	Present value adjustment	

			payment
Not later than 1 year	₩ 595,427	85,333	510,094
1 ~ 5 years	1,306,571	106,333	1,200,238
Later than 5 years	16,529	38	16,491
	₩ 1,918,527	191,704	1,726,823

ii) Operating lease

	Minimum lease payment	
	2017	2018
Not later than 1 year	₩ 37,455	94,540
1 ~ 5 years	70,764	180,304
Over 5 years	12	10
	₩ 108,231	274,854

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

23. Leases (continued)

- (c) Future minimum lease payments under non-cancellable operating lease of the Group as lessee as of December 31, 2017 and 2018 are as follows:

	Minimum lease payment	
	2017	2018
Not later than 1 year	₩ 247,815	204,323
1 ~ 5 years	328,482	382,620
Later than 5 years	32,740	23,148
	₩ 609,037	610,091

24. Pledged assets

- (a) Assets pledged as collateral as of December 31, 2017 and 2018 are as follows:

	2017	2018
Loans		
Loans	₩ 99,158	
Loans at amortized cost		129,210
Securities		
Securities at FVTPL		11,533,107
Securities at FVOCI		1,372,746
Securities at amortized cost		10,670,253
Trading assets	12,660,710	
Financial assets designated at fair value through profit or loss	587,380	
Available-for-sale financial assets	1,968,870	
Held-to-maturity financial assets	10,508,112	
	25,725,072	23,576,106
Deposits		
Deposits	1,501,661	

Deposits at amortized cost		1,481,085
Real estate	157,485	154,490
	₩27,483,376	25,340,891

The carrying amounts of asset pledged that the pledgees have the right to sell or repledge regardless of the Group's default as of December 31, 2017 and 2018 are ₩9,688,816 million and ₩8,026,332 million, respectively.

- (b) The fair value of collateral held that the Group has the right to sell or repledge regardless of pledger's default as of December 31, 2017 and 2018 are as follows:

	2017	
	Collateral held	
	Assets pledged as collateral	Assets received as collateral
Securities	₩8,779,621	3,749,516

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

24. Pledged assets (continued)

	2018	
	Assets pledged as collateral	Collateral held Assets received as collateral
Securities	₩ 7,342,239	5,190,387

25. Deposits

Deposits as of December 31, 2017 and 2018 were as follows:

	2017	2018
Demand deposits:	₩ 102,928,642	106,160,833
Time deposits:	129,483,260	139,644,763
Negotiable certificates of deposits	7,583,365	9,247,088
Note discount deposits	3,423,459	4,087,530
CMA	4,197,146	4,084,709
Others	1,803,352	1,775,267
	₩ 249,419,224	265,000,190

26. Financial liabilities at fair value through profit or loss

Financial liabilities at fair value through profit or loss as of December 31, 2018 are as follows:

	2018
Securities sold:	
Stocks	₩ 488,873
Bonds	440,382
Others	32,117

	961,372
Gold deposits	458,934
	₩ 1,420,306

27. Trading liabilities

Trading liabilities as of December 31, 2017 are as follows:

	2017
Securities sold:	
Stocks	₩ 495,019
Bonds	871,884
Others	47,001
	1,413,904
Gold deposits	434,586
	₩ 1,848,490

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

28. Financial liabilities designated at fair value through profit or loss (IFRS 9)

Financial liabilities designated at fair value through profit or loss as of December 31, 2018 are as follows:

	2018	Reason for designation
Equity-linked securities sold	₩ 6,439,292	Combined instrument
Securities sold with embedded derivatives	2,096,508	Combined instrument
	₩ 8,535,800	

(*) The Group designated the financial liabilities at the initial recognition (or subsequently) in accordance with paragraph 6.7.1 of IFRS 9 as financial liabilities at fair value through profit or loss.

Maximum credit risk exposure of the financial liabilities designated at fair value through profit or loss amounts to ₩8,535,800 million as of December 31, 2018. Changes in values of the liability are ₩2,376 million for the year ended December 31, 2018 and the accumulated changes are ₩235 million as of December 31, 2018.

29. Financial liabilities designated at fair value through profit or loss (IAS 39)

Financial liabilities designated at fair value through profit or loss as of December 31, 2017 are as follows:

	2017	Reason for designation
Equity-linked securities sold	₩ 5,865,990	Combined instrument
Securities sold with embedded derivatives	2,394,646	Combined instrument
Securities sold	36,973	Evaluation and management on a fair value basis

₩ 8,297,609

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		14,438,687
Borrowings in foreign currencies:		
Overdraft due to banks	0.00	77,673
Borrowings from banks	0.00~12.00	4,653,055
Others	2.60~7.90	1,596,626
		6,327,354
Deferred origination costs		(1,856)
		₩ 29,818,542

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

31. Debt securities issued

Debt securities issued as of December 31, 2017 and 2018 are as follows:

	2017	
	Interest rate (%)	Amount
Debt securities issued in Korean won:		
Debt securities issued	0.00~8.00	₩ 41,781,486
Subordinated debt securities issued	2.20~4.60	3,500,401
Loss on fair value hedges		(274,047)
Discount on debt securities issued		(45,969)
		44,961,871
Debt securities issued in foreign currencies:		
Debt securities issued	0.00~4.20	4,989,904
Subordinated debt securities issued	3.75~3.88	1,446,390
Loss on fair value hedges		(25,794)
Discount on debt securities issued		(31,550)
		6,378,950
		₩ 51,340,821

	2018	
	Interest rate (%)	Amount
Debt securities issued in Korean won:		
Debt securities issued	0.00~8.00	₩ 50,661,472
Subordinated debt securities issued	2.20~4.60	4,400,145
Loss on fair value hedges		(206,985)
Discount on debt securities issued		(84,962)
		54,769,670
Debt securities issued in foreign currencies:		

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Debt securities issued	0.20~4.01	6,278,680
Subordinated debt securities issued	3.75~5.00	2,271,799
Loss on fair value hedges		(55,251)
Discount on debt securities issued		(37,199)
		8,458,029
		₩ 63,227,699

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

32. Employee benefits

(a) Defined benefit obligations and plan assets

Defined benefit obligations and plan assets as of December 31, 2017 and December 31, 2018 are as follows:

	2017	2018
Present value of defined benefit obligations	₩ 1,695,191	1,841,982
Fair value of plan assets	(1,688,047)	(1,714,634)
Recognized liabilities for defined benefit obligations	₩ 7,144	127,348

(b) Changes in the present value of defined benefit obligation and plan assets for the years ended December 31, 2017 and 2018 were as follows:

	2017		
	Defined benefit obligation	Plan assets	Net defined benefit liability
Beginning balance	₩ 1,689,980	(1,559,101)	130,879
Included in profit or loss:			
Current service cost	172,152		172,152
Past service cost	2,810		2,810
Interest expense (income)	54,485	(52,136)	2,349
	229,447	(52,136)	177,311
Included in other comprehensive income:			
Remeasurement loss (gain):			
- Actuarial gains (losses) arising from :			
Demographic assumptions	4,471		4,471
Financial assumptions	(96,957)		(96,957)
Experience adjustment	(56,709)		(56,709)
- Return on plan assets excluding interest income		27,460	27,460

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	(149,195)	27,460	(121,735)
Other:			
Benefits paid by the plan	(74,841)	69,857	(4,984)
Contributions paid into the plan		(174,127)	(174,127)
Effect of movements in exchange rates	(200)		(200)
	(75,041)	(104,270)	(179,311)
Ending balance	₩ 1,695,191	(1,688,047)	7,144

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

32. Employee benefits (continued)

		2018	
	Defined benefit obligation	Plan assets	Net defined benefit liability
Beginning balance	₩ 1,695,191	(1,688,047)	7,144
Included in profit or loss:			
Current service cost	144,923		144,923
Past service cost	54		54
Interest expense (income)	59,836	(66,676)	(6,840)
	204,813	(66,676)	138,137
Included in other comprehensive income:			
Remeasurement loss (gain):			
- Actuarial gains (losses) arising from :			
Demographic assumptions	18,399		18,399
Financial assumptions	79,038	1,215	80,253
Experience adjustment	(10,762)		(10,762)
- Return on plan assets excluding interest income		40,486	40,486
	86,675	41,701	128,376
Other:			
Benefits paid by the plan	(142,938)	137,335	(5,603)
Contributions paid into the plan		(139,348)	(139,348)
Settlement gain or loss	407		407
Effect of movements in exchange rates	(1,273)		(1,273)
Others (*2)	(893)	401	(492)
	(144,697)	(1,612)	(146,309)
Ending balance	₩ 1,841,982	(1,714,634)	127,348

(*1) Profit or loss arising from defined benefit plans is included in general and administrative expenses.

(*2) Others represent the change amounts due to the conversion to defined contribution.

(c) The composition of plan assets as of December 31, 2017 and 2018 are as follows:

	2017	2018
Plan assets comprise:		
Equity securities	₩ 231,620	257,581
Debt securities	43,990	817
Due from banks	1,380,656	1,394,634
Other	31,781	61,602
	₩ 1,688,047	1,714,634

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

32. Employee benefits (continued)

(d) Actuarial assumptions as of December 31, 2017 and 2018 are as follows:

	2017	2018	Description
Discount rate	2.44%~4.07%	3.02%~3.22%	AA0 corporate bond yields
Future salary increase rate	0.99%~5.61%	0.99%~3.40%	
	+ Upgrade rate	+ Upgrade rate	Average for 5 years
Weighted average maturity	7.25 years ~ 9.33 years	7.7 years ~ 9.9 years	

(e) Sensitivity analysis

As of December 31, 2018, reasonably possible changes in one of the relevant actuarial assumptions, holding other assumptions constant, would have affected the defined benefit obligation by the amounts shown below.

	Defined benefit obligation	
	Increase	Decrease
Discount rate (1%p movement)	₩ (159,549)	180,542
Future salary increase rate (1%p movement)	176,924	(159,169)

33. Provisions

(a) Provisions as of December 31, 2017 and 2018 are as follows:

	2017	2018
Asset retirement obligations	₩ 45,495	49,183
Expected loss related to litigation	32,650	25,554
Unused credit commitments	168,006	232,347
Bonus card point reward program (*)	26,434	
Financial guarantee contracts issued	80,861	115,325

Others	75,512	86,007
	₩ 428,958	508,416

(*) In accordance with IFRS 15, the Group has adjusted all bonus card point reward program related to customer loyalty programs.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

33. Provisions (continued)

- (b) Changes in provision for unused credit commitments and financial guarantee contracts issued as of December 31, 2018 are as follows:

	Unused credit commitments			Financial guarantee contracts issued			Total
	12 month expected credit loss	Life time expected credit loss	Impaired financial asset	12 month expected credit loss	Life time expected credit loss	Impaired financial asset	
Beginning allowance	₩ 124,492	96,010	2,137	31,456	3,368	2,464	259,927
Transfer to 12 month expected credit loss	42,514	(42,057)	(457)	1,140	(1,140)		
Transfer to life time expected credit loss	(8,899)	8,976	(77)	(1,804)	1,804		
Transfer to impaired financial asset	(213)	(802)	1,015	(13)		13	
Provided (reversed)	(32,070)	38,576	2,519	(3,964)	455	(690)	4,826
FX change	578	105		758	481	449	2,371
Others (*1)				36,621	936	(479)	37,078
Ending balance	₩ 126,402	100,808	5,137	64,194	5,904	1,757	304,202

- (*1) Others include the adjustment of the provision from financial guarantee contracts measured at fair value newly, and the expired contracts, and the change of discount rate.

- (c) Changes in provisions for the years ended December 31, 2017 and 2018 were as follows:

	2017						
	Asset retirement	Litigation	Unused credit	Card point (*2)	Guarantee	Other	Total
Beginning balance	₩ 50,738	34,471	450,997	25,425	79,238	88,019	728,888
Provision(reversal)	(4,562)	704	(279,508)	51,294	2,548	11,797	(217,727)
Provision used	(2,695)	(1,908)		(50,285)	(132)	(22,637)	(77,657)
Foreign exchange translation		(617)	(3,483)		(4,458)	(52)	(8,610)

Others (*1)	2,014				3,665	(1,615)	4,064
Ending balance	₩45,495	32,650	168,006	26,434	80,861	75,512	428,958

(*1) Others include the effects of decrease in discount and changes in discount rate.

(*2) Provisions for card point were classified as fees and commission expense.

	2018				
	Asset retirement	Litigation	Guarantee	Other	Total
Beginning balance (*1)	₩45,495	32,650	46,340	75,512	199,997
Provision(reversal)	4,789	(1,138)	(2,833)	4,900	5,718
Provision used	(4,210)	(6,343)		(7,554)	(18,107)
Foreign exchange translation		385	1,677	(1,006)	1,056
Others (*2)	3,109		(1,714)	14,155	15,550
Ending balance	₩49,183	25,554	43,470	86,007	204,214

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

33. Provisions (continued)

(*1) In accordance with IFRS 15, the Group has adjusted all bonus card point reward program related to customer loyalty programs.

(*2) Others include the effects of decrease in discount and changes in discount rate.

(d) Asset retirement obligation liabilities represent the estimated cost to restore the existing leased properties which is discounted to the present value using the appropriate discount rate at the end of the reporting period. Disbursements of such costs are expected to incur at the end of lease contract. Such costs are reasonably estimated using the average lease year and the average restoration expenses. The average lease year is calculated based on the past ten-year historical data of the expired leases. The average restoration expense is calculated based on the actual costs incurred for the past three years using the three-year average inflation rate.

(e) Allowance for guarantees and acceptances as of December 31, 2017 and 2018 are as follows:

	2017	2018
Guarantees and acceptances outstanding	₩ 7,611,211	9,437,691
Contingent guarantees and acceptances	3,259,613	3,985,532
ABS and ABCP purchase commitments	2,035,543	2,083,522
Endorsed bill	85,456	37,667
	₩ 12,991,823	15,544,412
Allowance for loss on guarantees and acceptances	₩ 80,861	115,325
Ratio	% 0.62	0.74

34. Liability under insurance contracts

(a) Insurance liabilities as of December 31, 2017 and 2018 are as follows:

	2017	2018
Policy reserve	₩ 24,515,364	26,211,044

Policyholder's equity adjustment	(76)	7,838
	₩ 24,515,288	26,218,882

(b) Policy reserve as of December 31, 2017 and 2018 are as follows:

	2017	2018
Interest rate linked	₩ 16,464,193	17,328,353
Fixed interest rate	8,051,171	8,882,691
	₩ 24,515,364	26,211,044

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(In millions of won)

34. Liability under insurance contracts (continued)

(c) The details of policy reserves as of December 31, 2017 and 2018 are as follows:

	2017							Total
	Pure endowment	Individual insurance		Subtotal	Group insurance		Subtotal	
		Death	Endowment		Pure protection	Savings		
Premium reserve	₩ 5,343,670	10,628,661	7,323,183	23,295,514	32,538	57	32,595	23,328,109
Guarantee reserve	11,678	50,615	151	62,444				62,444
Unearned premium reserve	3	364		367	652		652	1,019
Reserve for outstanding claims	98,596	784,535	176,566	1,059,697	26,068		26,068	1,085,765
Interest rate difference guarantee reserve	2,280	159	12	2,451				2,451
Mortality gains reserve	7,736	5,195	200	13,131	5		5	13,136
Interest gains reserve	18,463	268	20	18,751				18,751
Long term duration dividend reserve	59	10	1	70				70
Reserve for policyholders profit dividend	2,374			2,374				2,374
Reserve for losses on dividend insurance contract	1,245			1,245				1,245
	₩ 5,486,104	11,469,807	7,500,133	24,456,044	59,263	57	59,320	24,515,364

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

34. Liability under insurance contracts (continued)

	2018							Total
	Pure endowment	Individual insurance		Subtotal	Group insurance		Subtotal	
		Death	Endowment		Pure protection	Savings		
Premium reserve	₩ 5,729,045	11,722,964	7,482,084	24,934,093	24,422	58	24,480	24,958,573
Guarantee reserve	10,148	64,978	124	75,250				75,250
Unearned premium reserve	3	301		304	506		506	810
Reserve for outstanding claims	99,676	837,317	185,328	1,122,321	18,089		18,089	1,140,410
Interest rate difference guarantee reserve	2,068	148	11	2,227				2,227
Mortality gains reserve	7,026	4,741	176	11,943	3		3	11,946
Interest gains reserve	18,662	254	19	18,935				18,935
Long term duration dividend reserve	52	9	1	62				62
Reserve for policyholders profit dividend	1,773			1,773				1,773
Reserve for losses on dividend insurance contract	1,058			1,058				1,058
	₩ 5,869,511	12,630,712	7,667,743	26,167,966	43,020	58	43,078	26,211,044

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

34. Liability under insurance contracts (continued)

(d) Reinsurance credit risk as of December 31, 2017 and 2018 are as follows:

	2017	
	Reinsurance assets	Reinsurance account receivable
AA- to AA+	₩ 1,893	3,420
A- to A+	1,217	3,387
	₩ 3,110	6,807

	2018	
	Reinsurance assets	Reinsurance account receivable
AA- to AA+	₩ 2,451	4,416
A- to A+	1,622	3,598
	₩ 4,073	8,014

(e) Income or expenses on insurance for the years ended December 31, 2016, 2017 and 2018 are as follows:

	2016	2017	2018
Insurance income:			
Premium income	₩ 4,558,453	4,550,277	4,348,745
Reinsurance income	6,840	10,532	15,222
Separate account income	20,805	38,999	34,771
	4,586,098	4,599,808	4,398,738
Insurance expenses:			
Claims paid	2,007,831	2,213,285	2,549,147
Reinsurance premium expenses	8,405	13,220	18,482

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Provision for policy reserves (*)	2,325,010	2,147,139	1,694,716
Separate account expenses	20,805	38,999	34,770
Discount charge	548	632	669
Acquisition costs	559,213	543,752	454,479
Collection expenses	15,367	15,716	16,046
Deferred acquisition costs	(373,490)	(336,851)	(283,665)
Amortization of deferred acquisition costs	440,913	423,955	385,793
	5,004,602	5,059,847	4,870,437
Net loss on insurance	₩ (418,504)	(460,039)	(471,699)

(*) Shinhan Life Insurance's saving interest is included. (Accumulated ₩ 960,927 million as of December 31, 2017 and accumulated ₩ 966,910 million as of December 31, 2018)

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

34. Liability under insurance contracts (continued)

(f) Maturity of premium reserve as of December 31, 2017 and 2018 are as follows:

	2017						Total
	Less than 1 year	1 ~ 3 years	3 ~ 7 years	7 ~ 10 years	10 ~ 20 years	More than 20 years	
Fixed interest rate	₩ 62,611	256,126	646,634	550,935	1,227,656	4,629,667	7,373,629
Interest rate linked	32,364	660,966	1,549,321	384,276	1,359,071	11,968,482	15,954,480
Ending balance	₩ 94,975	917,092	2,195,955	935,211	2,586,727	16,598,149	23,328,109

	2018						Total
	Less than 1 year	1 ~ 3 years	3 ~ 7 years	7 ~ 10 years	10 ~ 20 years	More than 20 years	
Fixed interest rate	₩ 111,102	247,619	741,222	502,572	1,288,815	5,284,548	8,175,878
Interest rate linked	195,843	922,832	1,247,871	343,562	1,500,893	12,571,694	16,782,695
Ending balance	₩ 306,945	1,170,451	1,989,093	846,134	2,789,708	17,856,242	24,958,573

(g) Liability adequacy test, LAT

i) Liability adequacy tests were performed on the premium reserve, unearned premium reserve and guarantee reserve for the contracts held at December 31, 2017 and 2018. The premium reserve considered the amount net level premium reserve less, where appropriate, deferred acquisition cost in accordance with the article 6-3 of Regulation on Supervision of Insurance Business Act.

ii) Output overview

In the debt appraisal system, the insurance premium surplus method is applied to calculate premium deficits.

Premium deficiency refers to deficiency when the amount of accumulated reserve is insufficient due to a decrease in the interest rate after the sale of the product or an increase in the risk rate compared with the expected basic rate at the time of product development.

The insurance premium standard inspection method is a method of calculating the reserve amount based on the present value of total income reflecting the interest rate, the risk rate, the business ratio, the cancellation rate, etc. and the present value of the total expenditure, that is, (discount rate), business ratio, risk rate, and cancellation rate calculated based on the Group's own experience, which reflects company-specific characteristics, and does not reflect subjective factors such as management's willingness to improve management.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

34. Liability under insurance contracts (continued)

iii) The assumptions of the current estimation used to assessment and their basis for calculation was as follows:

	Assumptions		
	2017	2018	Measurement basis
Discount rate	1.98% ~ 8.77%	1.27% ~ 4.95%	The scenario adding liquidity premium to risk-free rate, which is suggested from Financial Supervisory Service
Mortality rate	6.24% ~ 257.25%	2.58% ~ 247.65%	Ratio by claims paid per premium paid on risk premium based on experience-based rate by products, collateral of last 5 years.
Operating expense rate	Acquisition cost - The first time : 90% ~ 1034.9% - From the second time : 0% ~ 212.9% Maintenance expense (each case): 843 won ~ 3,768 won Collection expenses (on gross premium): 0.03% ~ 1.05%	Acquisition cost - The first time : 90% ~ 982.7% - From the second time : 0% ~ 193.5% Maintenance expense (each case): 207 won ~ 3,531 won Collection expenses (on gross premium): 0.04% ~ 1.10%	Business rate on insurance premium or expenses per contract based on experience-based rate of last 1 year
Surrender ratio	0.95% ~ 34.08%	0.95% ~ 48.35%	Surrender ratio by elapsed period, classes of sales channel, product of last 5 years

vi) The result of liability adequacy test as of December 31, 2017 and 2018 are as follows:

	2017		
	Provisions for test	LAT base	Premium loss (surplus)
Participating:			
Fixed interest	₩ 582,842	1,448,564	865,722
Variable interest	811,078	895,052	83,973
	1,393,920	2,343,616	949,695
Non-Participating:			
Fixed interest	5,374,209	2,204,431	(3,169,778)
Variable interest	13,374,917	10,448,900	(2,926,017)
	18,749,126	12,653,331	(6,095,795)
	₩ 20,143,046	14,996,947	(5,146,100)

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

34. Liability under insurance contracts (continued)

	2018		
	Provisions for test	LAT base	Premium loss (surplus)
Participating:			
Fixed interest	₩ 589,618	1,368,008	778,390
Variable interest	859,858	964,358	104,500
	1,449,476	2,332,366	882,890
Non-Participating:			
Fixed interest	6,009,771	3,019,087	(2,990,684)
Variable interest	14,149,581	12,339,559	(1,810,022)
	20,159,352	15,358,646	(4,800,706)
	₩ 21,608,828	17,691,012	(3,917,816)

v) Sensitivity analysis as of December 31, 2017 and 2018 are as follows:

	LAT fluctuation	
	2017	2018
Discount rate increased by 0.5%	₩ (1,532,611)	(2,010,046)
Discount rate decreased by 0.5%	1,836,098	2,353,179
Operating expense increased by 10%	216,340	236,693
Mortality rate increased by 10%	818,261	866,683
Mortality rate increased by 5%	410,822	435,423
Surrender ratio increased by 10%	457,119	298,121

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

35. Other liabilities

Other liabilities as of December 31, 2017 and 2018 are as follows:

	2017	2018
Accounts payable	₩ 8,524,295	9,748,168
Accrued expenses	3,022,127	3,267,188
Dividend payable	8,345	49,486
Advance receipts	120,724	131,386
Unearned income	402,541	236,827
Withholding value-added tax and other taxes	343,938	547,097
Securities deposit received	911,304	651,153
Foreign exchange remittances pending	223,465	225,956
Domestic exchange remittances pending	1,808,652	1,115,939
Borrowing from trust account	4,057,649	2,999,445
Due to agencies	607,743	779,473
Deposits for subscription	79,154	76,019
Separate account liabilities	3,213,389	2,845,380
Sundry liabilities	1,930,410	2,496,169
Other	76,966	50,881
Present value discount account	(17,929)	(20,888)
	₩ 25,312,773	25,199,679

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

36. Equity

(a) Equity as of December 31, 2017 and 2018 are as follows:

	2017	2018
Capital stock:		
Common stock	₩ 2,370,998	2,370,998
Preferred stock	274,055	274,055
	2,645,053	2,645,053
Hybrid bond	423,921	1,531,759
Capital surplus:		
Share premium	9,494,769	9,494,769
Others (*1)	392,566	400,719
	9,887,335	9,895,488
Capital adjustments (*2)	(398,035)	(552,895)
Accumulated other comprehensive income, net of tax:		
Gain on financial assets at fair value through other comprehensive income		2,958
Valuation gain on available-for-sale financial assets	72,126	
Loss on financial assets at fair value through profit or loss (overlay approach)		(79,057)
Equity in other comprehensive income of associates	(294)	4,883
Foreign currency translation adjustments for foreign operations	(345,199)	(321,853)
Net gain(loss) from cash flow hedges	2,440	(17,751)
Other comprehensive income(loss) of separate account	(4,812)	4,112
Actuarial losses	(253,995)	(346,682)
Changes in own credit risk on financial liabilities designated under fair value option		170
	(529,734)	(753,220)

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Retained earnings (*3)(*4)(*5)(*6)	20,791,681	22,959,440
Non-controlling interest (*7)	883,397	925,805
	₩ 33,703,618	36,651,430

(*1) During the year ended December 31, 2018, the Group recorded a capital surplus of KRW 8,153 million as a result of participating in the capital increase of its subsidiary, Jeju Bank Co. Ltd.

(*2) The Group acquired treasury stock through treasury stock trusts, and the consideration paid or received is recognized directly in equity.

(*3) The reserve for profits of the Group, due to In accordance with Article 53 of the Financial Holding Company Act, amounted to ₩ 1,992,716 million and ₩ 2,068,190 million as of December 31, 2017 and 2018, respectively.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

36. Equity (continued)

- (*4) The reserve for loan losses in the retained earnings amounted to ₩ 5,953 million and ₩ 7,572 million as of December 31, 2017 and 2018, respectively.
- (*5) The total amount of retained earnings from the consolidated subsidiaries that are not available for the payment of cash dividends due to the related regulation is 5,800,002 million.
- (*6) The acquisition of ANZ Retail business by Shinhan Bank of Vietnam was completed and the amount was adjusted retrospectively.
- (*7) As of December 31, 2017 and 2018, Shinhan Bank and Jeju Bank have recognized ₩ 718,775 million and ₩ 748,497 million, respectively, as non-controlling interests. The amount of dividends paid by Shinhan Bank and Jeju Bank ₩ 27,546 million and ₩ 30,442 million are allocated to the net income of non-controlling interests.

(b) Capital stock

Capital stock of the Group as of December 31, 2017 and 2018 are as follows:

Number of authorized shares	1,000,000,000
Par value per share in won	₩ 5,000
Number of issued common stocks outstanding	474,199,587

(c) Hybrid bonds

Hybrid bonds classified as other equity instruments as of December 31, 2017 and December 31, 2018 are as follows:

Issue date	Currency	Maturity date	Interest rate (%)	2017	2018
June 25, 2015	KRW	June 25, 2045	4.38	₩ 199,455	199,455
September 15, 2017			3.77	134,683	134,683
September 15, 2017			4.25	89,783	89,783
April 13, 2018			4.08		134,678
April 13, 2018			4.56		14,955
August 29, 2018			4.15		398,679
August 13, 2018	USD		5.88		559,526
				₩ 423,921	1,531,759

The Group can make advanced redemption for the above bonds, after 5 or 10 years from the issuance date; and has unconditional rights to extend the maturity under the same condition. In addition, if the determination has been made that dividend is not paid for common shares, then the interest for the above bonds is also not paid.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

36. Equity (continued)

(d) Capital adjustments

Changes in capital adjustments for the years ended December 31, 2017 and 2018 are as follows:

	2017	2018
Beginning balance	₩ (458,461)	(398,035)
Transaction on redemption of hybrid bonds	(1,139)	
Acquisition of stocks		(155,923)
Other transactions with owners	61,565	1,063
Ending balance	₩ (398,035)	(552,895)

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

36. Equity (continued)

(e) Accumulated other comprehensive income

Changes in accumulated other comprehensive income for the years ended December 31, 2017 and 2018 are as follows:

	2017						
	Unrealized gain (loss) on available-for-sale financial assets	Equity in other comprehensive income of associates	Foreign currency translation adjustments for foreign operations	Net loss from cash flow hedges	Other comprehensive income of separate account	Remeasurements of the defined benefit plans	Total
Beginning balance	₩ 394,182	21,258	(151,725)	(13,464)	4,466	(357,300)	(102,583)
Change due to fair value	(60,397)	(24,886)			(12,529)		(97,812)
Reclassification:							
Change due to impairment or disposal	(346,126)						(346,126)
Effect of hedge accounting				250,875			250,875
Hedging	1,241		97,353	(229,747)			(131,153)
Effects from exchange rate fluctuations	(28,553)		(276,285)				(304,838)
Remeasurements of the defined benefit plans						121,735	121,735
Transfer to other account		(414)					(414)
Deferred income taxes	110,708	3,748	(15,240)	(5,224)	3,251	(18,210)	79,033
Non-controlling interests	1,071		698			(220)	1,549
Ending balance	₩ 72,126	(294)	(345,199)	2,440	(4,812)	(253,995)	(529,734)

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

36. Equity (continued)

	2018							Items that will never be reclassified to profit or loss			Total
	Items that are or may be reclassified to profit or loss										
	Gain (loss) on financial asset at fair value through other comprehensive income	Gain (loss) on valuation of financial asset measured at FVTPL (overlay approach)	Equity in other comprehensive income of associates	Foreign currency translation adjustments for foreign operations	Net loss from cash flow hedges	Other comprehensive income of separate account	Remeasurements of the defined benefit plans	Equity in other comprehensive income of associates	Gain (loss) on financial assets at fair value through other comprehensive income	Gain (loss) on financial liabilities measured at FVTPL attributable to changes in credit risk	
Beginning balance	₩ (211,003)	(24,724)	(2,516)	(342,318)	2,441	(4,564)	(253,995)	(46)	31,533	(1,553)	(806,742)
Change due to fair value	225,173	(74,942)	(2,327)			11,967		39	25,077	2,376	187,363
Reclassification:											
Change due to impairment or disposal	15,812		13,103		(91,011)						(62,096)
Effect of hedge accounting					(1,261)						(1,261)
Redging	(2,365)			(35,879)	60,501						22,257
Effects from change rate fluctuations	1,733			45,904					423		48,060
Remeasurements of the defined benefit plans							(128,139)				(128,139)
Deferred income taxes	(79,345)	20,609	(3,369)	9,958	11,579	(3,291)	35,041	(11)	(5,410)	(653)	(14,892)
Transfer to other account	(1,305)			482			411	10	2,635		2,643
											(411)

Non-controlling
Interests

Beginning balance	₩	(51,300)	(79,057)	4,891	(321,853)	(17,751)	4,112	(346,682)	(8)	54,258	170	(753,220)
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(*) The beginning balance is restated due to the adoption of IFRS 9 and 15.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

36. Equity (continued)

(f) Appropriation of retained earnings

Statements of appropriation of retained earnings for the years ended December 31, 2017 and 2018 are as follows:

	2017	2018
Date of appropriation:	March 22, 2018	March 27, 2019
Unappropriated retained earnings:		
Balance at beginning of year	₩ 4,896,292	4,867,521
Net effect due to change in accounting policy		(23)
Dividend to hybrid bonds	(17,678)	(40,357)
Net income	754,727	1,234,883
	5,633,341	6,062,024
Reversal of regulatory reserve for loan losses		
	5,633,341	6,062,024
Appropriation of retained earnings:		
Legal reserve	(75,473)	(123,488)
Dividends		
Dividends on common stocks paid	(687,589)	(753,041)
Regulatory reserve for loan losses	(1,619)	(1,156)
Loss on redemption of hybrid bonds	(1,139)	
	(765,820)	(877,685)
Unappropriated retained earnings to be carried over to subsequent year	₩ 4,867,521	5,184,339

(*) These statements of appropriation of retained earnings were based on the separate financial statements of Shinhan Finance Group.

(g) Regulatory reserve for loan losses

In accordance with Regulations for the Supervision of Financial Institutions, the Group reserves the difference between allowance for credit losses by IFRS and that as required by the Regulations at the account of regulatory reserve for loan losses in retained earnings.

i) *Changes in regulatory reserve for loan losses including non-controlling interests for the years ended December 31, 2017 and 2018 are as follows:*

	2017	2018
Beginning balance	₩ 2,252,771	2,885,018
IFRS 9 adoption		(388,551)
Planned regulatory reversal of loan losses	632,247	348,223
Ending balance	₩ 2,885,018	2,844,690

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

36. Equity (continued)

ii) Profit attributable to equity holders of Shinhan Financial Group and earnings per share after factoring in regulatory reserve for loan losses for the years ended December 31, 2017 and 2018 are as follows:

	2017 (*3)	2018
Profit attributable to equity holders of Shinhan Financial Group	₩ 2,918,816	3,156,722
Provision for regulatory reserve for loan losses (*1)	(631,578)	(348,127)
Profit attributable to equity holders of Shinhan Financial Group adjusted for regulatory reserve	₩ 2,287,238	2,808,595
Basic and diluted earnings per share adjusted for regulatory reserve in won (*2)	4,786	5,844

(*1) Amortization of reserve for credit losses due to the transfer of IFRS 9 during the year is excluded.

(*2) Dividends for hybrid bonds are deducted.

(*3) The acquisition of ANZ Retail business by Shinhan Bank of Vietnam was completed, the amount was adjusted retrospectively.

(h) Treasury stock

The acquisition of treasury stock is as follows:

	Beginning balance	Acquisition	disposal	Ending balance
The number of share		3,648,659		3,648,659
Carrying value	₩	155,923		155,923

(*) For the December 31, 2018, the Group entered into a treasury stock trust agreement with Samsung Securities Co., Ltd. for a total consideration of ₩200,000 million.

37. Dividends

- (a) Details of dividends recognized as distributions to common stockholders for the years ended December 31, 2017 and 2018 are as follows:

	2017	2018 (*1)
Total number of shares issued and outstanding	₩ 474,199,587	474,199,587
Par value per share in won	5,000	5,000
Dividend per share in won	1,450	1,600
Dividends (*2)	₩ 687,589	753,041
Dividend rate per share	% 29.0	32.0

(*1) The dividend is the amount of dividend that will be paid on March 27, 2019 and is not recognized as a distribution to the owners during the period.

(*2) The amounts are proposed or declared dividends before the financial statements were authorized for issue but not recognized as a distribution to owners during the year.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

37. Dividends (continued)

(b) Dividend for hybrid bond was calculated as follows for the years ended December 31, 2017 and 2018:

	2017	2018
Amount of hybrid bond	₩ 425,000	1,538,150
Interest rate	% 3.77 ~ 4.38	3.77 ~ 5.88
Dividend (*)	₩ 17,678	40,357

(*) The dividends to hybrid bonds that were early redeemed during the period are included.

38. Net interest income

Net interest income for the years ended December 31, 2016, 2017 and 2018 are as follows:

	2016	2017	2018
Interest income:			
Cash and due from banks	₩ 185,534	167,793	
Cash and deposits at amortized cost			155,075
Deposits at FVTPL			33,845
Trading assets	454,274	489,836	
Financial assets designated at fair value through profit or loss	43,398	57,899	
Securities at FVTPL			623,651
Securities at FVOCI			759,301
Securities at amortized cost			730,382
Available-for-sale financial assets	632,829	671,912	
Held-to-maturity financial assets	561,823	651,107	
Loans	9,230,303	9,673,635	
Loans at amortized cost			11,158,558
Loans at FVTPL			23,110
Others	128,141	86,472	88,534

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	11,236,302	11,798,654	13,572,456
Interest expense:			
Deposits	(2,586,742)	(2,482,415)	(3,091,659)
Borrowings	(300,759)	(352,069)	(468,068)
Debt securities issued	(1,085,830)	(1,085,366)	(1,336,840)
Others	(57,605)	(35,851)	(95,800)
	(4,030,936)	(3,955,701)	(4,992,367)
Net interest income	₩ 7,205,366	7,842,953	8,580,089

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

39. Net fees and commission income

Net fees and commission income for the years ended December 31, 2016, 2017 and 2018 are as follows:

	2016	2017	2018
Fees and commission income:			
Credit placement fees	₩ 74,352	59,133	62,766
Commission received as electronic charge receipt	137,213	142,755	146,309
Brokerage fees	333,722	373,108	412,165
Commission received as agency	131,026	129,460	120,508
Investment banking fees	66,150	66,191	91,273
Commission received in foreign exchange activities	182,975	197,705	214,395
Asset management fees	115,574	190,802	235,275
Credit card fees	2,343,255	2,369,745	1,360,322
Others	419,329	516,056	652,243
	3,803,596	4,044,955	3,295,256
Fees and commission expense:			
Credit-related fee	(32,401)	(35,665)	(36,817)
Credit card fees	(1,899,339)	(1,988,826)	(944,533)
Others	(306,317)	(309,510)	(374,909)
	(2,238,057)	(2,334,001)	(1,356,259)
Net fees and commission income	₩ 1,565,539	1,710,954	1,938,997

40. Dividend income

Dividend income for the years ended December 31, 2016, 2017 and 2018 are as follows:

	2016	2017	2018
Securities at FVTPL	₩		70,955
Trading assets	50,805	57,615	
Securities at FVOCI			16,871
Available-for-sale financial assets	230,818	199,691	

	₩ 281,623	257,306	87,826
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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

41. Net gain (loss) on financial instruments measured at fair value through profit or loss

Net gain (loss) on financial instruments measured at fair value through profit or loss for the year ended December 31, 2018 are as follows:

	2018
Net gain (loss) on deposits measured at FVTPL	
Loss on valuation	₩ (61,848)
Net gain (loss) on loans measured at FVTPL	
Gain on valuation	916
Gain on sale	9,133
	10,049
Net gain (loss) on securities measured at FVTPL	
Debt securities	
Gain on valuation	111,029
Gain on sale	78,718
Other gains	223,731
	413,478
Equity securities	
Gain on valuation	286,801
Loss on sale	(275,356)
	11,445
Other	
Gain on valuation	19,086
Net gain (loss) on financial liabilities measured at FVTPL	
Debt securities	
Loss on valuation	(115,667)
Gain (loss) on disposition	268,932
	153,265
Other	

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Gain (loss) on valuation	(14,892)
Gain on disposition	1,394
	(13,498)
Derivatives:	
Gain on valuation	(291,879)
Gain on transaction	179,928
	(111,951)
	₩ 420,026

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

42. Net trading income (loss)

Net trading income (loss) for the year ended December 31, 2016 and 2017 are as follows:

	2016	2017
Trading assets:		
Debt securities:		
Loss on valuation	₩ (47,017)	(90,442)
Gain (loss) on sale	(1,933)	(93,528)
	(48,950)	(183,970)
Equity securities:		
Gain on valuation	161,234	187,442
Gain on sale	70,603	128,118
	231,837	315,560
Other:		
Gain (loss) on valuation	18,336	5,782
Trading liabilities:		
Debt securities:		
Gain (loss) on valuation	(121,262)	(138,134)
Gain (loss) on disposition	5,174	(20,610)
	(116,088)	(158,744)
Other:		
Gain (loss) on valuation	(61,321)	260
Gain on disposition	2,589	2,440
	(58,732)	2,700
Derivatives:		
Gain (loss) on valuation	1,667	369,225
Gain on transaction	341,440	612,670
	343,107	981,895

₩ 369,510	963,223
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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

43. Net gain (loss) on financial instruments designated at fair value through profit or loss (IFSR9)

Net gain (loss) on financial instruments designated at fair value through profit or loss for the year ended December 31, 2018 are as follows:

	2018
Financial assets designated at fair value through profit or loss:	
Equity securities:	
Gain on sale	₩ (4,737)
Financial liabilities designated at fair value through profit or loss:	
Borrowings:	
Gain on valuation	382,667
Loss on sale and redemption	(404,573)
	₩ (26,643)

44. Net gain (loss) on financial instruments designated at fair value through profit or loss (IAS39)

Net gain (loss) on financial instruments designated at fair value through profit or loss for the year ended December 31, 2016 and 2017 were as follows:

	2016	2017
Financial assets designated at fair value through profit or loss:		
Other securities:		
Gain on valuation	₩ 11,798	13,020
Debt securities:		
Gain (loss) on valuation	20,498	(65,475)
Gain on sale and redemption	16,625	11,673
	37,123	(53,802)
Equity securities:		
Dividend income	185	51
Loss on valuation	(5,664)	(78,633)
Gain on sale	5,747	5,622

	268	(72,960)
Financial liabilities designated at fair value through profit or loss:		
Other securities:		
Gain (loss) on valuation	(97)	
Loss on disposal and redemption	(109)	(43)
	(206)	(43)
Borrowings:		
Gain (loss) on valuation	(174,348)	(100,685)
Loss on disposal and redemption	(376,590)	(845,356)
	(550,938)	(946,041)
	₩ (501,955)	(1,059,826)

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(In millions of won)

45. Allowance provided (reversed) for credit loss on financial assets

Allowance provided (reversed) for credit loss on financial assets for the year ended December 31, 2018 are as follows:

	2018
Loans at amortized cost	₩ (704,515)
Other financial assets at amortized cost	(24,070)
Securities at fair value through other comprehensive income	(12,066)
Others (unused credit line and financial guarantee, etc)	(4,826)
Securities at amortized cost	(2,400)
	₩ (747,877)

46. Net impairment loss on financial assets

Net impairment loss on financial assets for the year ended December 31, 2016 and 2017 were as follows:

	2016	2017 (*)
Impairment losses on:		
Loans	₩ (1,102,781)	(799,577)
Available-for-sale financial assets	(96,381)	(202,360)
Other financial assets	(4,851)	(15,672)
	(1,204,013)	(1,017,609)
Reversal of impairment losses on:		
Available-for-sale financial assets	8,350	4,061
	₩ (1,195,663)	(1,013,548)

(*) As the acquisition of ANZ Retail business by Shinhan Bank of Vietnam was completed, the amount was adjusted retrospectively.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

47. General and administrative expenses

General and administrative expenses for the years ended December 31, 2016, 2017 and 2018 are as follows:

	2016	2017	2018
Employee benefits:			
Salaries	₩ 2,515,492	2,668,224	2,736,604
Severance benefits:			
Defined contribution	22,007	21,040	23,745
Defined benefit	181,703	173,080	133,749
Termination benefits	106,833	285,158	115,275
	2,826,035	3,147,502	3,009,373
Rent	340,504	336,124	357,981
Entertainment	31,409	29,039	30,442
Depreciation	177,405	173,541	171,771
Amortization	74,222	66,860	73,575
Taxes and dues	164,177	165,689	176,133
Advertising	292,552	271,819	287,688
Research	14,070	14,093	13,928
Others	588,201	606,531	620,684
	₩ 4,508,575	4,811,198	4,741,575

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

48. Share-based payments

(a) Stock options granted as of December 31, 2018 are as follows:

	4th grant(*1)	5th grant(*1)	6th grant(*1)	7th grant(*1)(*2)
Grant date	March 30, 2005	March 21, 2006	March 20, 2007	March 19, 2008
Exercise price in won	₩28,006	₩38,829	₩54,560	₩49,053
Number of shares granted	2,695,200	3,296,200	1,301,050	808,700
Options expiry dates	August 30, 2018	August 21, 2019	August 19, 2020	May 17, 2021/ September 17, 2021
Changes in number of shares granted:				
Balance at January 1, 2018	2,500	2,500	58,764	45,628
Exercised	2,500			
Balance at December 31, 2018		2,500	58,764	45,628
				₩1,441
				(Expiration of contractual exercise period : May 17, 2021)
Fair value per share in won	₩	2,874	₩	397
				₩1,610
				(Expiration of contractual exercise period : Sep 17, 2021)

(*1)

The weighted average exercise price for 106,892 stock options outstanding at December 31, 2018 is ₩51,841.

(*2) As of December 31, 2018, the exercise of the remaining for 9,466 stock options (7th grant) was temporarily suspended.

(b) Performance shares granted as of December 31, 2018 are as follows:

Type	Expired	Not expired
Performance conditions	Cash-settled share-based payment Increase rate of the stock price and	
Operating period (*)	achievement of target ROE 4 or 5 years	
Estimated number of shares vested at December 31, 2018	397,464	1,336,188
Fair value per share in won	₩45,926, ₩47,376, ₩40,889, ₩45,766, ₩49,405, ₩40,580 for the expiration of operating period from 2013 to 2018	₩39,600

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

48. Share-based payments (continued)

(*) Four-year period is applied from the beginning of the year that the grant date belongs while five-year period for the shares with deferred payment.

The amount of cash payment for the Group's cash-settled share-based payment arrangements with performance conditions is determined at the fourth anniversary date from the grant date based on the share price which is an arithmetic mean of weighted average share prices of the past two-months, past one-month and past one-week. Share price to be paid in the future is evaluated using the share price as of the end of the reporting period. For share-based payment transactions among the controlling company and its subsidiaries, the controlling company and its subsidiaries receiving the services shall measure the services received as a cash-settled and an equity-settled share-based payment transaction, respectively.

(c) Share-based compensation costs for the years ended December 31, 2016, 2017 and 2018 were as follows:

	2016		
	Employees of		Total
	The controlling company	The subsidiaries	
Stock options granted:			
4th	₩ 51	533	584
5th	36	582	618
6th			
7th			
Performance share	2,890	23,845	26,735
	₩ 2,977	24,960	27,937

	2017		
	Employees of		Total
	The controlling company	The subsidiaries	
Stock options granted:			
4th	₩ 67	413	480
5th	48	757	805

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6th	26	159	185
7th	83	120	203
Performance share	1,782	15,717	17,499
	₩ 2,006	17,166	19,172

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

48. Share-based payments (continued)

	2018		
	The controlling company	Employees of The subsidiaries	Total
Stock options granted:			
4th	₩	(14)	(14)
5th		(19)	(19)
6th	(23)	(139)	(162)
7th	(59)	(86)	(145)
Performance share	1,154	9,768	10,922
	₩ 1,072	9,510	10,582

(d) Accrued expenses and the intrinsic value as of December 31, 2017 and 2018 are as follows:

	2017		
	The controlling company	Employees of The subsidiaries	Total
Stock options granted:			
4th	₩	54	54
5th		26	26
6th	26	159	185
7th	83	120	203
Performance share	8,286	62,769	71,055
	₩ 8,395	63,128	71,523

The intrinsic value of share-based payments is ₩71,151 million as of December 31, 2017. For calculating, the quoted market price ₩49,400 per share was used for stock options and the fair value was considered as intrinsic value for performance shares, respectively.

	2018		
	Employees of		
	The controlling	The subsidiaries	Total
	company		
Stock options granted:			
4th	₩		
5th		7	7
6th	3	20	23
7th	24	33	57
Performance share	7,328	61,790	69,118
	₩ 7,355	61,850	69,205

The intrinsic value of share-based payments is ₩69,120 million as of December 31, 2018. For calculating, the quoted market price ₩39,600 per share was used for stock options and the fair value was considered as intrinsic value for performance shares, respectively.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

49. Net other operating expense

Other operating income and other operating expense for the years ended December 31, 2016, 2017 and 2018 are as follows:

	2016	2017	2018
Other operating income			
Gain on sale of assets:			
Loans	₩ 69,002	50,707	
Loans at amortized cost			40,624
Others:			
Gain on hedged items	392,913	634,695	418,390
Reversal of allowance for acceptances and guarantee	4,046		2,834
Gain on trust account	3,379	14	
Reversal of other allowance	30,419	286,932	5,033
Others	47,556	82,375	131,345
	478,313	1,004,016	557,602
	547,315	1,054,723	598,226
Other operating expense			
Loss on sale of assets:			
Loans	(11,021)	(8,394)	
Loans at amortized cost			(14,271)
Others:			
Loss on hedged items	(451,728)	(629,754)	(406,872)
Contribution	(252,178)	(252,419)	(283,331)
Provision for acceptances and guarantee allowance	(7,933)	(2,548)	
Provision for other allowance	(84,048)	(12,133)	(13,036)
Depreciation of operating lease assets	(8,315)	(12,943)	(56,570)
Others	(530,003)	(599,524)	(653,501)
	(1,334,205)	(1,509,321)	(1,413,310)
	(1,345,226)	(1,517,715)	(1,427,581)

Net other operating expenses	₩ (797,911)	(462,992)	(829,355)
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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

50. Net other non-operating income

Other non-operating income and other non-operating expense for the years ended December 31, 2016, 2017 and 2018 are as follows:

	2016	2017	2018
Other non-operating income			
Gain on sale of assets:			
Property and equipment	₩ 3,343	5,278	12,611
Investment property	2,668	219	4,783
Assets held for sale		22,748	
Lease assets	272	605	1,153
Others	95	125	
	6,378	28,975	18,547
Gain on sale of Investments in associates	5,218	8,891	17,427
Others:			
Rental income on investment property	27,852	33,023	32,488
Reversal of impairment losses on intangible asset	301	91	62
Gain from assets contributed	53	1,067	77
Others	104,563	67,535	49,276
	132,769	101,716	81,903
	144,365	139,582	117,877
Other non-operating expense			
Loss on sale of assets:			
Property and equipment	(2,811)	(2,642)	(3,082)
Investment property	(248)	(1,627)	(2,958)
Lease assets	(2,429)	(1,282)	(3,964)
Others	(118)	(149)	(3)
	(5,606)	(5,700)	(10,007)
Loss on sale of investments in associates	(3,315)	(1,332)	(11,546)
Impairment loss on investments in associates	(7,339)	(144)	(5,849)

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	(10,654)	(1,476)	(17,395)
Others:			
Donations	(19,367)	(140,243)	(88,650)
Depreciation of investment properties	(19,588)	(16,095)	(16,917)
Impaired loss on property and equipment	(2,204)	(16)	
Impaired loss on intangible assets	(3,411)	(271)	(771)
Write-off of intangible assets	(966)	(1,210)	(1,537)
Collecting of written-off expenses	(4,379)	(7,162)	(6,048)
Others	(26,355)	(20,220)	(26,844)
	(76,270)	(185,217)	(140,767)
	(92,530)	(192,393)	(168,169)
Net other non-operating income (loss)	₩ 51,835	(52,811)	(50,292)

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

51. Income tax expense

(a) Income tax expense for the years ended December 31, 2016, 2017 and 2018 are as follows:

	2016	2017 (*)	2018
Current income tax expense	₩ 718,757	749,649	900,016
Adjustment for prior periods	(36,372)	(23,265)	(3,261)
Temporary differences	(480,280)	46,468	383,190
Income tax recognized in other comprehensive income	143,448	75,551	(11,600)
Income tax expenses	₩ 345,553	848,403	1,268,345

(*) As the acquisition of ANZ Retail business by Shinhan Bank of Vietnam was completed, the amount was adjusted retrospectively.

(b) Income tax expense calculated by multiplying net income before tax with the tax rate for the years ended December 31, 2016, 2017 and 2018 are as follows:

	2016	2017 (*1)	2018
Profit before income taxes	₩ 3,170,472	3,797,608	4,466,610
Income taxes at statutory tax rates	765,395	917,802	1,222,840
Adjustments:			
Non-taxable income	(30,839)	(10,614)	(6,300)
Non-deductible expense	18,786	12,772	12,854
Tax credit	(401)	(195)	(23,317)
Recognition of deferred tax assets related to expired unused tax losses (*2)	(357,307)		
Changes in deferred tax due to change in tax rate		(72,985)	
Other	(13,709)	24,888	65,529
Refund due to adjustments of prior year tax returns	(36,372)	(23,265)	(3,261)

Income tax expense	₩	345,553	848,403	1,268,345
Effective tax rate	%	10.90	22.34	28.40

- (*1) As the acquisition of ANZ Retail business by Shinhan Bank of Vietnam was completed, the amount was adjusted retrospectively.
- (*2) The Group did not previously recognized the deferred tax asset relating to the expired unused tax losses as the utilization of the expired unused tax losses had been assessed remote. In 2016, based on the new tax interpretation issued by Korea National Tax Service which allows utilization of expired unused tax losses against extinguishment of deposit and insurance liabilities and the relating recent tax refund, the Group recognized the deferred tax asset after factoring in future taxable profits and the expected future extinguishment of deposit and insurance liabilities.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

51. Income tax expense (continued)

- (c) Deferred tax expenses by origination and reversal of deferred assets and liabilities and temporary differences for the years ended December 31, 2017 and 2018 are as follows:

	2017			
	Beginning Balance	Profit or loss	Other comprehensive income	Ending Balance (*1)(*2)
Unearned income	₩ (139,234)	(62,835)		(202,069)
Account receivable	(11,493)	(7,774)		(19,267)
Trading assets	(33,424)	44,841		11,417
Available-for-sale	86,897	77,198	110,405	274,500
Investment in associates	20,112	1,062	3,748	24,922
Valuation and depreciation of property and equipment	(146,860)	(16,452)		(163,312)
Derivative asset (liability)	125,233	(197,253)	(5,224)	(77,244)
Deposits	18,162	9,742		27,904
Accrued expenses	108,700	62,610		171,310
Defined benefit obligation	378,400	50,410	(20,544)	408,266
Plan assets	(313,708)	(100,624)	2,396	(411,936)
Other provisions	221,749	(47,484)		174,265
Allowance for acceptances and guarantees	19,530	3,608		23,138
Allowance related to asset revaluation	(46,977)	(5,909)		(52,886)
Allowance for expensing depreciation	(521)	(8)		(529)
Deemed dividend	1,378	3,939		5,317
Accrued contributions	8,764	3,140		11,904
Financial instruments designated at fair value through profit of loss	(58,885)	52,397		(6,488)
Allowances	94,554	(70,201)		24,353
Fictitious dividend	4,833	157		4,990
Liability under insurance contracts	13,104	5,001		18,105
Deficit carried over		1,505		1,505
Other	(77,198)	49,675	(15,230)	(42,753)
	273,116	(143,255)	75,551	205,412

Expired unused tax losses:				
Extinguishment of deposit and insurance liabilities	357,307	18,500		375,807
	₩ 630,423	(124,755)	75,551	581,219

(*1) As the acquisition of ANZ Retail business by Shinhan Bank of Vietnam was completed, the amount was adjusted retrospectively.

(*2) Deferred tax assets from overseas subsidiaries were decreased by ₩1,654 million due to foreign exchange rate movements.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

51. Income tax expense (continued)

	2018			
	Beginning Balance (*1)	Profit or loss	Other comprehensive income	Ending Balance (*2)
Unearned income	₩ (202,069)	(53,267)		(255,336)
Account receivable	(19,267)	(4,872)		(24,139)
Financial assets at fair value through profit or loss	(47,548)	79,000	16,825	48,277
Securities at fair value through other comprehensive income	307,729	(47,548)	(82,823)	177,358
Investment in associates	24,918	3,205	(3,380)	24,743
Valuation and depreciation of property and equipment	(163,313)	1,317		(161,996)
Derivative asset (liability)	(70,828)	171,000	11,579	111,751
Deposits	27,904	132		28,036
Accrued expenses	171,310	(38,621)		132,689
Defined benefit obligation	408,266	6,965	32,427	447,658
Plan assets	(411,935)	(37,117)	2,729	(446,323)
Other provisions	191,298	3,177		194,475
Allowance for acceptances and guarantees	23,929	5,228		29,157
Allowance related to asset revaluation	(52,886)	3,173		(49,713)
Allowance for expensing depreciation	(529)	64		(465)
Deemed dividend	5,317	(5,317)		
Accrued contributions	11,904	9,807		21,711
Financial instruments designated at fair value through profit of loss	(7,194)	(80,214)		(87,408)
Allowances	131,222	(82,438)		48,784
Fictitious dividend	4,990	(3,665)		1,325
Liability under insurance contracts	18,105	4,488		22,593
Deficit carried over	1,505	(1,505)		
Other	59,471	(296,190)	11,043	(225,676)
	412,299	(363,198)	(11,600)	37,501
Expired unused tax losses:				
	375,807	(8,363)		367,444

Extinguishment of deposit and insurance liabilities

₩ 788,106	(371,561)	(11,600)	404,945
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(*1) Changes in the scope of application of IFRS 9 and 15 have been reflected (Note 60).

(*2) Deferred tax assets from overseas subsidiaries were decreased by ₩29 million due to foreign exchange rate movements.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

51. Income tax expense (continued)

- (d) Deferred tax assets and liabilities that were directly charged or credited to equity for the years ended December 31, 2017 and 2018 are as follows:

	January 1, 2017		Changes		December 31, 2017	
	OCI	Tax effect	OCI (*2)	Tax effect	OCI	Tax effect
Gain (loss) on valuation of available-for-sale financial assets	₩ 524,335	(130,153)	(432,461)	110,405	91,874	(19,748)
Foreign currency translation adjustments for foreign operations	(141,815)	(9,910)	(178,244)	(15,230)	(320,059)	(25,140)
Gain (loss) on cash flow hedge	(17,763)	4,299	21,128	(5,224)	3,365	(925)
Equity in other comprehensive income of associates	22,559	(1,301)	(25,300)	3,748	(2,741)	2,447
The accumulated other comprehensive income in separate account (*1)	5,891	(1,425)	(12,529)	3,251	(6,638)	1,826
Remeasurements of the defined benefit liability	(471,141)	113,841	121,451	(18,146)	(349,690)	95,695
Income tax charged or credited directly to equity	₩ (77,934)	(24,649)	(505,955)	78,804	(583,889)	54,155

	January 1, 2018 (*2)		Changes		December 31, 2018	
	OCI	Tax effect	OCI	Tax effect	OCI	Tax effect
Gain (loss) on valuation of financial assets measured at FVOCI	₩ (255,593)	76,124	267,306	(84,878)	11,713	(8,754)
Gain (loss) on financial liabilities measured at FVTPL attributable to changes in credit risk	(2,141)	588	2,376	(653)	235	(65)
Foreign currency translation adjustments for foreign operations	(317,264)	(25,054)	10,498	9,967	(306,766)	(15,087)
Gain (loss) on cash flow hedge	7,286	(4,845)	(31,771)	11,578	(24,485)	6,733
Equity in other comprehensive income of associates	(5,868)	3,306	10,825	(3,380)	4,957	(74)

The accumulated other comprehensive income in separate account (*1)	(6,295)	1,731	11,967	(3,291)	5,672	(1,560)
Remeasurements of the defined benefit liability	(349,538)	95,543	(127,844)	35,157	(477,382)	130,700
Gain (loss) on valuation of financial asset measured at FVTPL (Overlay approach)	(33,713)	8,988	(74,942)	20,609	(108,655)	29,597
Income tax charged or credited directly to equity	₩(963,126)	156,381	68,415	(14,891)	(894,711)	141,490

(*1) Deferred tax effects, which are originated from the accumulated other comprehensive income in separate account, were included in the other assets of separate account's financial statement.

(*2) Changes in the scope of application of IFRS 9 and 15 have been reflected (Note 60)

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

51. Income tax expense (continued)

- (e) The amount of deductible temporary differences, unused tax losses, and unused tax credits that are not recognized as deferred tax assets as of December 31, 2017 and 2018 are as follows:

	2017	2018
Tax loss carry forward (*)	₩99,449	99,449

- (*) At the end of reporting date, the expected extinctive date of tax loss carry forward and tax credits carry forward that are not recognized as deferred tax assets are as follows:

	1 year or less	1-2 years	2-3 years	More than 3 years
Tax loss carry forward	₩ 99,449			

- (f) The amount of temporary difference regarding investment in subsidiaries that are not recognized as deferred tax liabilities as of December 31, 2017 and 2018 are as follows:

	2017	2018
Investment in associates	₩(480,184)	(686,107)

- (g) The Group set off a deferred tax asset against a deferred tax liability of the same taxable entity if, and only if, they relate to income taxes levied by the same taxation authority and the entity has a legally enforceable right to set off current tax assets against current tax liabilities. Deferred tax assets and liabilities presented on a gross basis prior to any offsetting as of December 31, 2017 and 2018 are as follows:

	2017 (*)	2018
Deferred tax assets	₩ 659,594	483,517
Deferred tax liabilities	(77,293)	(78,572)

(*)

As the acquisition of ANZ Retail business by Shinhan Bank of Vietnam was completed, the amount was adjusted retrospectively.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

52. Earnings per share

(a) Basic and diluted earnings per share for the years ended December 31, 2016, 2017 and 2018 are as follows:

	2016	2017 (*2)	2018
Profit attributable to equity holders of Shinhan Financial Group	₩ 2,774,778	2,918,816	3,156,722
Less:			
Dividends on preferred stock (*3)	18,836		
Dividends to hybrid bond	36,091	17,678	40,357
	54,927	17,678	40,357
Net profit available for common stock	₩ 2,719,851	2,901,138	3,116,365
Weighted average number of common shares outstanding (*1)	474,199,587	474,199,587	473,649,076
Basic and diluted earnings per share in won	₩ 5,736	6,118	6,579

(*1) The number of basic ordinary shares outstanding is 474,199,587 shares. As a result of the acquisition of treasury stock, the weighted average number of common shares outstanding for the year ended December 31, 2018 decreased.

(*2) As the acquisition of ANZ Retail business by Shinhan Bank of Vietnam was completed, the amount was adjusted retrospectively.

(*3) The amount of 2016 is the additionally paid amount based on the contractual dividend rate for the period from the beginning of the period to the day before the redemption date according to the redemption conditions of the redeemable preferred stocks.

(b) The Board of Directors meeting on February 12, 2019, after the reporting period, approved an issue of a convertible preferred stock that could potentially dilute basic earnings per share in the future (Note 59).

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

53. Commitments and contingencies

(a) Guarantees, acceptances and credit commitments as of December 31, 2017 and 2018 are as follows:

	2017	2018
Guarantees:		
Guarantees outstanding	₩ 7,611,211	9,437,691
Contingent guarantees	3,259,613	3,985,532
	10,870,824	13,423,223
Commitments to extend credit:		
Loan commitments in won	54,827,918	69,906,336
Loan commitments in foreign currency	18,992,984	19,967,297
ABS and ABCP commitments	2,035,543	2,083,522
Others	66,767,465	73,816,233
	142,623,910	165,773,388
Endorsed bills:		
Secured endorsed bills	85,456	37,667
Unsecured endorsed bills	7,810,788	7,758,242
	7,896,244	7,795,909
Loans sold with recourse	2,099	2,099
	₩ 161,393,077	186,994,619

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

53. Commitments and contingencies (continued)

(b) Legal contingencies

The Group's pending lawsuits as a defendant for the year ended December 31, 2018 are as follows:

Case	Number of claim	Descriptions	Claim amount
Payment Guarantee	1	The plaintiff filed claims against the Group for guarantee deposit of receivable-backed ABL of KT ENS. The case are currently pending in its second appeal.	₩ 12,866
Compensation for a loss	1	According to the asset custody contract, the plaintiff is liable for damages caused by a fire in the property of the real estate investment company in which the Group is holding assets.	6,893
		In 2015 and 2017, the plaintiffs prevailed, but the first and second decisions were different.	
Confirm deposit accounts	1	Hanwha Savings Bank, a party to the lender of Meat Loan, filed a lawsuit against all creditors to confirm deposit accounts for the sale of frozen meat. HYUN, which is proceeding civil litigation against the group's individual owners, has been entrusted to proceed the confirm deposit accounts.	5,575
Others	152	Compensation for a loss claim, etc.	78,900
	155		₩ 104,234

As of December 31, 2018, the Group has recorded ₩ 25,554 million and ₩ 1,006 million, respectively, as other provisions and insurance contract liabilities (reserve for claims) for litigations, etc., The outcome of the lawsuits is not expected to have a material impact on the consolidated financial statements, but additional losses may result from future litigation

- (c) The Group entered into an agreement with Asia Trust Co., Ltd. (60% of its total shares) to acquire remaining stake in the Group. In accordance with the agreement, the Group has the right to purchase shares held by the shareholders of Asia Trust Co., Ltd. In response, the shareholders of Asia Trust Co., Ltd. have the right to demand to purchase the shares of the Group.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

54. Statement of cash flows

- (a) Cash and cash equivalents in the consolidated statements of cash flows as of December 31, 2016, 2017 and 2018 are as follows:

	2016	2017	2018
Cash and due from banks	₩ 19,196,875	22,682,652	
Cash and due from banks at amortized cost			17,363,450
Adjustments:			
Due from financial institutions with a maturity over three months from date of acquisition	(4,458,286)	(3,010,471)	(3,008,188)
Restricted due from banks	(9,106,053)	(13,435,531)	(6,175,506)
	₩ 5,632,536	6,236,650	8,179,756

- (b) Significant non-cash activities for the years ended December 31, 2016, 2017 and 2018 are as follows:

	2016	2017	2018
Debt-equity swap	₩ 32,229	32,530	28,759
Transfers from construction-in-progress to property and equipment	15,405	14,285	6,319
Transfers between property / equipment and investment property	10,898	91,782	28,199
Transfers between assets held for sale and property / equipment	411	5,336	80
Transfers between investment property and assets held for sale	2,200	6,306	

- (c) Changes in assets and liabilities arising from financing activities for the years ended December 31, 2017 and 2018 are as follows:

2017

	Assets		Liabilities		Total
	Derivative assets	Derivative liabilities	Borrowings	Debentures	
Balance at January 1, 2017	₩ 153,343	10,842	25,294,241	44,326,785	69,785,211
Changes from cash flows	(48,499)	10,211	3,047,844	7,784,142	10,793,698
Changes from non-cash flows					
Amortization of discount on borrowings and debentures			1,480	16,126	17,606
Changes in foreign currency exchange rate			(22,850)	(635,836)	(658,686)
Others	(100,878)	125,225	(734,105)	(150,396)	(860,154)
Balance at December 31, 2017	₩ 3,966	146,278	27,586,610	51,340,821	79,077,675

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

54. Statement of cash flows (continued)

	Assets		2018 Liabilities		Total
	Derivative assets	Derivative liabilities	Borrowings	Debentures	
Balance at January 1, 2018	₩ 3,966	146,278	27,586,610	51,340,821	79,077,675
Changes from cash flows	(5,845)	(12,002)	1,772,203	11,798,466	13,552,822
Changes from non-cash flows					
Amortization of discount on borrowings and debentures			181,050	335,935	516,985
Changes in foreign currency exchange rate			955,512	229,277	1,184,789
Others	9,356	(49,697)	(676,833)	(476,800)	(1,193,974)
Balance at December 31, 2018	₩ 7,477	84,579	29,818,542	63,227,699	93,138,297

55. Related parties

Intra-group balances, and income and expenses arising from intra-group transactions are eliminated in preparing the consolidated financial statements.

(a) Balances with the related parties as of December 31, 2017 and 2018 are as follows:

Related party	Account	2017	2018
Investments in associates:			
BNP Paribas Cardif Life Insurance	Other assets	₩ 9,868	9,860
	Credit card loans	191	116
	Allowances	(4)	
	Deposits	446	444
	Provisions	2	
JAEYOUNG SOLUTEC CO., LTD. (*1)	Loans	14,847	
	Allowances	(124)	
	Credit card loans	33	
	Deposits	2,659	
	Provisions	4	
Partners 4th Growth Investment Fund	Deposits	2,076	1,855

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BNP Paribas Cardif General Insurance	Credit card loans	29	29
	Allowances	(1)	(2)
	Deposits	221	157
Shinhan Praxis K-Growth Global Private Equity Fund	Other assets	174	151
Dream High Fund III	Deposits	3	4
Midas Dong-A Snowball Venture Fund	Deposits	220	159
IBKS-Shinhan Creative Economy New Technology Fund (*1)	Deposits	78	
Credian Healthcare Private Equity Fund II	Deposits	26	45
KDBC Midas Dong-A Snowball Venture Fund 2	Deposits	239	354
IBKS-Shinhan Creative Economy New Technology Fund II	Deposits	76	672
Eum Private Equity Fund No.3	Deposits	65	49
Branbuil CO., LTD. (*2)	Deposits	55	

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

55. Related parties (continued)

Related party	Account	2017	2018
SHBNPP Private Korea Equity Long-Short Professional Feeder	Other assets	97	133
Shinhan Global Healthcare Fund 1	Unearned revenue	409	360
Shinhan Fintech New Technology Fund No.1	Unearned revenue	123	123
KTB Newlake Global Healthcare PEF	Deposits	465	151
	Provisions	13	
Taihan Industrial System Co., Ltd.	Deposits	100	85
Incorporated association Finance Saving Information Center	Credit card loans		3
	Deposits	4	4
GX Shinhan interest 1 st Private Equity Fund	Unearned revenue		278
Nomura investment property trust No.19	Loans		11,966
	Other assets		45
SHBNPP MAIN Professional Investment Type Private Mixed Asset Investment Trust No.3	Other assets		236
Key management personnel and their immediate relatives:			
	Loans	3,247	3,313
	Assets	28,357	25,850
	Liabilities	₩ 7,284	4,740

(*1) Excluded from related parties due to the disposal or terminated.

(*2) As a result of changes in accounting policies at the beginning of the current year, they were excluded from associates.

(b) Transactions with the related parties for the years ended December 31, 2016, 2017 and 2018 are as follows:

Related party	Account	2016	2017	2018
Investments in associates				
Aju Capital co., Ltd	Interest income	₩ 7,332		
	Fees and commission income	257		

	Interest expense	(2)		
	Fees and commission expense	(302)		
	Other operating expenses	(18)		
	Provision for credit losses	(149)		
Pohang TechnoPark2PFV	Interest expense	(15)		
BNP Paribas Cardif Life Insurance	Fees and commission income	4,265	4,631	3,716
	Reversal of credit losses			4
	Provision for credit losses	(1)	(3)	
	General and administrative expenses	(9)	(10)	(17)
Shinhan Praxis K-Growth Global Private Equity Fund	Fees and commission income	691	689	685

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

55. Related parties (continued)

Related party	Account	2016	2017	2018
BNP Paribas Cardif General Insurance	Fees and commission income	4	4	9
	Reversal of credit losses		1	
	Provision for credit losses	(1)		(2)
Shinhan K2 Secondary Fund	Fees and commission income	665		
Midas Dong-A Snowball Venture Fund	Fees and commission income	28	38	47
	Interest expense	(4)	(3)	(2)
SHC-EN Fund	Fees and commission income	149		
SP New Technology Business investment Fund I (*1)	Fees and commission income	30	41	317
	Interest expense	(1)	(2)	
IBKS-Shinhan Creative Economy New Technology Fund I (*1)	Fees and commission income	50	37	13
	Interest expense	(1)	(2)	
SM New Technology Business Investment Fund I	Fees and commission income		55	55
	Interest income	671	654	523
JAEYOUNG SOLUTEC CO., LTD. (*1)	Fees and commission income	1	1	2
	Other operating income	7	3	3
	Reversal of credit losses	89	1	
	Interest expense	(21)	(4)	(2)
	Provision for credit losses		(55)	(1)
	Interest income			
Korea Investment Gong-pyeong Office Real Estate Investment Trust 2nd	Fees and commission income	55		
	Interest expense			
The Asia Pacific Capital Fund II L.P.	Fees and commission income	175	85	
Partners 4th Growth Investment Fund	Interest expense	(2)	(16)	(19)
Albatross Growth Fund	Interest expense	₩ (6)		
Shinhan-Albatross Technology Investment	Fees and commission income	₩	152	216
	Interest expense		(21)	
PSA 1st Fintech Private Equity Fund	Interest expense	(5)		
IBKS-Shinhan Creative Economy New Technology Fund 2	Fees and commission income	22	25	16
	Interest expense			
KDBC Midas Dong-A Snowball Venture Fund 2	Fees and commission income			
	Interest expense	(1)		(2)
SHBNPP Private Korea Equity Long-Short Professional Feeder	Fees and commission income	785	892	975
	Interest expense			

SHBNPP Private Multi Strategy
Professional Feeder No.1

Fees and commission income

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

55. Related parties (continued)

Related party	Account	2016	2017	2018
Semantic	Interest income	15		
	Provision for credit losses	(1)		
Branbuil CO., LTD. (*2)	Fees and commission income	1	2	
	Provision for credit losses	(1)		
Treenkid	Interest income	3		
STI-New Growth Engines Investment	Fees and commission income		30	16
Shinhan Fintech New Technology Fund No.1	Fees and commission income		30	153
KTB New lake medical Global Investment	Interest income		10	2
	Other operating expenses		(13)	
Shinhan Global health Care Investment No.1	Fees and commission income		282	785
Taihan Industrial System Co., Ltd.	Fees and commission income	₩	2	1
Shinhan capital-Cape FN Fund No.1	Fees and commission income			82
SHC-K2 Global Material Fund	Fees and commission income			20
Synergy-Shinhan Mezzanine New Technology Investment Fund	Fees and commission income			127
Shinhan-Midas Dong-A Secondary Venture Fund	Fees and commission income			71
GX Shinhan interest 1st Private Equity Fund	Fees and commission income			412
Shinhan-Nvestor Liquidity Solution Fund	Fees and commission income			214
SHC ULMUS Fund No.1	Fees and commission income			51
Shinhan-PS Investment Fund No.1	Fees and commission income			12
Nomura investment property trust No.19	Interest income			312
	Provision for credit loss			(34)
SHBNPP MAIN Professional Investment Type Private Mixed Asset Investment Trust No.3	Fees and commission income			236
Key management personnel and their immediate relatives				
Interest income		68	101	101
		₩ 14,984	7,639	9,097

(*1) Excluded from related parties due to the disposal or terminated.

(*2) As a result of changes in accounting policies at the beginning of the current year, they were excluded from associates.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

55. Related parties (continued)

(c) Key management personnel compensation

Key management personnel compensation for the years ended December 31, 2016, 2017 and 2018 were as follows:

	2016	2017	2018
Short-term employee benefits	₩ 16,428	17,112	22,502
Severance benefits	418	979	419
Share-based payment transactions	9,162	6,787	4,944
	₩ 26,008	24,878	27,865

(*) The expenses of share-based payment transactions are the remuneration expenses during the vesting period.

(d) The guarantees provided between the related parties as of December 31, 2017 and 2018 were as follows:

Guarantor	Guaranteed Parties	Amount of guarantees		Account
		2017	2018	
Shinhan Bank	KTB New lake medical Global Investment	₩ 700	849	Unused credit line
	BNP Paribas Cardif Life Insurance	10,000	10,000	Unused credit line
	Neoplux Technology Valuation Investment Fund	6,000		Security underwriting commitment
	JAEYOUNG SOLUTEC CO., LTD. (*)	109		Unused credit
		429		Import letter of credit
		₩ 17,238	10,849	

(*) Excluded from related parties due to the disposal.

(e) Details of collaterals provided by the related parties as of December 31, 2017 and December 31, 2018 were as follows:

Provided to	Provided by	Pledged assets	2017	2018
Shinhan Bank	BNP Paribas Cardif Life Insurance	Government	₩ 11,666	12,000
		bonds		
	JAEYOUNG SOLUTEC CO., LTD. (*)	Properties	20,814	
		Guarantee insurance policy	7,037	
			₩ 39,517	12,000

(*) Excluded from related parties due to the disposal.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

55. Related parties (continued)

(f) Details of significant loan transactions with related parties as of December 31, 2018 are as follows:

Classification	Company	Beginning	Loan	Recover	Other (*)	Ending
Investments in associates	Nomura investment property trust No.19	₩	12,000		(34)	11,966

(*) The effect of changes in allowance for doubtful accounts is included.

56. Interests in unconsolidated structured entities

(a) The nature and extent of interests in unconsolidated structured entities

The Group involved in assets-backed securitization, structured financing, beneficiary certificates (primarily investment funds) and other structured entities and characteristics of these structured entities are as follows:

	Description
Assets-backed securitization	<p>Securitization vehicles are established to buy assets from originators and issue asset-backed securities in order to facilitate the originators' funding activities and enhance their financial soundness. The Group is involved in the securitization vehicles by purchasing (or committing to purchase) the asset-backed securities issued and/or providing other forms of credit enhancement.</p> <p>The Group does not consolidate a securitization vehicle if (i) the Group is unable to make or approve decisions as to the modification of the terms and conditions of the securities issued by such vehicle or disposal of such vehicles' assets, (ii) (even if the Group is so able) if the Group does not have the exclusive or primary power to do so, or (iii) if the Group does not have exposure, or right, to a significant amount of variable returns from such entity due to the purchase (or commitment to purchase) of asset-backed securities so issued or subordinated obligations or by providing other forms of credit support.</p>
Structured financing	

Structured entities for project financing are established to raise funds and invest in a specific project such as M&A (mergers and acquisitions), BTL (build-transfer-lease), shipping finance, etc. The Group is involved in the structured entities by originating loans, investing in equity, or providing credit enhancement.

Investment fund

Investment fund means an investment trust, a PEF (private equity fund) or a partnership which invests in a group of assets such as stocks or bonds by issuing a type of beneficiary certificates to raise funds from the general public, and distributes its income and capital gains to their investors. The Group manages assets by investing in shares of investment fund or playing a role of an operator or a GP (general partner) of investment fund, on behalf of other investors.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

56. Interests in unconsolidated structured entities (continued)

The size of unconsolidated structured entities as of December 31, 2017 and 2018 are as follows:

	2017	2018
Total assets:		
Asset-backed securitization	₩ 175,953,075	196,108,655
Structured financing	84,719,599	132,050,391
Investment fund	69,736,443	71,487,406
	₩ 330,409,117	399,646,452

(b) Nature of risks

i) The carrying amounts of the assets and liabilities relating to its interests in unconsolidated structured entities as of December 31, 2017 and 2018 are as follows:

	2017			
	Assets-backed securitization	Structured financing	Investment fund	Total
Assets:				
Loans	₩ 329,776	6,189,042	91,078	6,609,896
Trading assets	3,201,400	958	351,290	3,553,648
Derivative assets	14,218			14,218
Available-for-sale financial assets	2,200,974	400,283	3,525,538	6,126,795
Held-to-maturity financial assets	3,259,451			3,259,451
Other assets	729	2,576	1,150	4,455
	₩ 9,006,548	6,592,859	3,969,056	19,568,463
Liabilities:				
Derivative liabilities	₩ 4,448			4,448
Other	557	1,050	9	1,616

₩ 5,005 1,050 9 6,064

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Notes to the Consolidated Financial Statements

(In millions of won)

56. Interests in unconsolidated structured entities (continued)

	2018			
	Assets-backed securitization	Structured financing	Investment fund	Total
Assets:				
Loans measured at fair value through profit or loss	₩ 292	504,571	802,825	1,307,688
Loan at amortized cost	478,998	6,925,438	33,500	7,437,936
Securities at fair value through profit or loss	4,263,817	288,757	5,293,807	9,846,381
Derivate assets	16,390	578		16,968
Securities at fair value through other comprehensive income	2,244,364	91,316	32,279	2,367,959
Securities at amortized cost	4,277,675			4,277,675
Other assets	5,453	48,457	34,333	88,243
	₩ 11,286,989	7,859,117	6,196,744	25,342,850
Liabilities:				
Derivative liabilities	₩ 111			111
Other	5,368	4,128		9,496
	₩ 5,479	4,128		9,607

ii) Exposure to risk relating to its interests in unconsolidated structured entities as of December 31, 2017 and 2018 are as follows:

	2017			
	Assets-backed securitization	Structured financing	Investment fund	Total
Assets held	₩ 9,006,548	6,592,859	3,969,056	19,568,463
ABS and ABCP commitments	1,391,035	57,300	452,311	1,900,646
Loan commitments	529,566	719,650	31,987	1,281,203
Guarantees	74,300	15,200		89,500
Others	4,200	45,634		49,834

₩ 11,005,649 7,430,643 4,453,354 22,889,646

	2018			
	Assets-backed securitization	Structured financing	Investment fund	Total
Assets held	₩ 11,286,989	7,859,117	6,196,744	25,342,850
ABS and ABCP commitments	1,395,417	2,300	602,594	2,000,311
Loan commitments	1,791,650	815,910	26,100	2,633,660
Guarantees	88,810	142,032		230,842
Others		49,464		49,464
	₩ 14,562,866	8,868,823	6,825,438	30,257,127

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

57. Retroactive adjustments for business combination

(a) Overview

The Group has acquired ANZ Retail Business in Vietnam on December 17, 2017, which was a local entity operating banking business in Vietnam, to strengthen business competitiveness and synergies through the acquisition of related businesses. The Group could not complete the initial accounting for the business acquisition until the end of the reporting period in which the acquisition incurred, since the valuation data of the acquired business has not been obtained, and the goodwill value was recognized at a provisional amount. The Group has finished the business acquisition accounting during 2018, reflecting the valuation results on the acquired net assets, and retrospectively adjusted the provisional value of net assets recognized at the acquisition date.

(b) Retroactive adjustment of fair value of assets and liabilities

The retroactive adjustment of fair value of assets acquired and liabilities assumed by acquisition of ANZ as of acquisition date is as follows:

	Amount	Adjustments	Adjusted Amount
Assets:			
Cash and due from banks	₩ 8,151		8,151
Loans (*1)	301,766	(1,352)	300,414
Property and equipment	538		538
Intangible assets (*2)		15,256	15,256
Other assets	9,269		9,269
	319,724	13,904	333,628
Liabilities:			
Deposits	(436,285)		(436,285)
Other liabilities	(1,022)		(1,022)
	(437,307)		(437,307)
The fair value of the identifiable assets acquired and liabilities assumed	₩ (117,583)	13,904	(103,679)

(*1) Adjustments are mainly due to the loan loss estimation.

(*2) The intangible assets mainly comprise the present value of the saved borrowing costs due to the deposits amounting to ₩4,454 million and the future economic benefits generated due to the relationship with the customers amounting to ₩10,802 million.

(c) Adjustments of goodwill

The retrospective adjustments of goodwill due to the measurement period adjustment for business combination are as follows:

	Amount	Adjustments	Adjusted Amount
Consideration received (cash)	₩ (75,480)		(75,480)
Fair value of identifiable net assets	(117,583)	13,904	(103,679)
Goodwill	₩ 42,103	(13,904)	28,199

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

57. Retroactive adjustments for business combination (continued)

(d) Adjustments of the prior year end balances.

	Amount	Adjustments	Adjusted Amount
Intangible assets	₩ 4,271,969	1,352	4,273,321
Deferred tax liabilities	9,712	270	9,982
Retained earnings	₩ 20,790,599	1,082	20,791,681

58. Acquisition of subsidiary

(a) General information

On September 12, 2018, the Group acquires 75% of the shares of PT ARCHIPELAGO ASSET MANAGEMENT in Indonesia and acquired control, and changed its name to PT Shinhan Asset Management Indonesia. The Group acquired a subsidiary in Indonesia to pursue new market penetration through its asset management business.

(b) Identifiable net assets

The assets and liabilities of PT Shinhan Asset Management Indonesia recognized at the acquisition date are as follows.

Classification	Amounts
Cash and cash equivalent assets	₩ 18
Financial assets measured at FVTPL	3,012
Asset	
PP&E	20
Deferred tax assets	20
Other assets	17
Total	3,087
Liabilities	
Income tax payable	7

Other liabilities

	75
Total	82
Identifiable net assets at fair value	₩ 3,005

(c) Goodwill

Goodwill recognized as a result of business combination is as follows.

Classification	Amounts
Previous transfer price	₩ 4,476
Identifiable net assets at fair value	(3,005)
Non-controlling interest	787
Goodwill	₩ 2,258

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

58. Acquisition of subsidiary (continued)

- (d) In connection with the business combination, the Group incurred a charge of KRW 192 million, including legal fees and due diligence fees, which were recognized as commissions in the consolidated statement of comprehensive income.

59. Events after reporting period

(a) Subsidiary investments

i) Orange Life Insurance Co. Ltd

The Group has entered into a share purchase agreement to acquire a 59.15% stake in Orange Life Insurance Co., Ltd. on January 16, 2019. The Financial Services Commission approved the transfer of the subsidiary, and the acquisition process was completed on February 1, 2019, after the reporting period.

ii) Asia Trust Co. Ltd

The Group has entered into a contract to acquire a stake in Asia Trust Co., Ltd. during the current period. Based on the approval of the supervisory authority, the Group will acquire 60% of its total shares for 193.4 billion won. (FN 53)

iii) Prudential Finance Co. Ltd

On January 23, 2018, the Group entered into a contract to acquire a 100% stake in Prudential Vietnam Finance Company Limited, a local consumer finance company in Vietnam, for US \$ 151 million. On January 17, 2019, and was approved by the local FSS.

(b) Rights offering

The Board of Directors approved the issuance of convertible preferred stock of KRW 750 billion at the meeting held on February 1, 2019. Investors may request a conversion from one year after the issuance date before four years after the date, and the convertible preferred stock that has not been converted until four years after the date will automatically be converted to common shares.

60. Transition effects arising from changes in accounting policies

The Group has changed its accounting policies as applying IFRS 9, *Financial Instruments*, and IFRS 15, *Revenue from Contracts with Customers*. With respect to classification, measurement and impairment of financial instruments, the financial statements as of and for the year ended December 31, 2017 have not been restated in accordance with the clause waiving the requirement to restate comparative financial statements.

IFRS 9 replaces IAS 39, *Financial Instruments: Recognition and Measurement*, relating to recognition, classification and measurement of financial assets and financial liabilities, derecognition of financial instruments, impairment of financial assets and hedge accounting. Additionally, IFRS 9 have made amendments to other standards relating to financial instruments such as IFRS 7, *Financial Instruments: Disclosures*.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

60. Transition effects arising from changes in accounting policies (continued)

(i) Changes in equity due to application of IFRS 9 and 15

Changes in equity as of January 1, 2018 due to the initial application date of IFRS 9 and 15 are as follows:

	Amounts
Retained earnings at January 1, 2018 before changes	₩ 20,791,681
Adjustments of retained earnings due to the application of IFRS 9 :	
Reclassification from financial assets at amortized cost to financial assets measured at fair value through profit or loss	(74,061)
Reclassification from available-for-sale financial assets to financial assets measured at fair value through profit or loss	178,518
Reclassification from available-for-sale financial assets to financial assets measured at fair value through other comprehensive income (*1)	204,457
Increase in loss allowance for financial assets measured at amortized cost	(573,088)
Increase in loss allowance for loan commitments and financial guarantee contracts	(55,274)
Increase in loss allowance for debt instruments measured at fair value through other comprehensive income	(18,976)
Effect of overlay approach application	34,102
Others (*2)	(40,063)
	(344,385)
Adjustments of retained earnings due to the application of IFRS 15 (*3)	(2,896)
Tax effects (*4)	95,426
Retained earnings at January 1, 2018 after changes	₩ 20,539,826

(*1) With the application of IFRS 9, the effect of retained earnings of the recognized impairment from equity securities has reclassified to other comprehensive income.

(*2) Include translation of foreign currencies, etc.

(*3) The Group has divided the trust fees into trust sales fees and trust managing fees and recognition of trust managing fees are deferred.

(*4) Tax effects due to the application of IFRS 9 are separately shown.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

60. Transition effects arising from changes in accounting policies (continued)

	Amounts
Accumulated other comprehensive loss at January 1, 2018 before changes	₩ (529,734)
Adjustments of accumulated other comprehensive income due to the application of IFRS 9:	
Reclassification from available-for-sale financial assets to financial assets measured at fair value through profit or loss	(178,518)
Reclassification from available-for-sale financial assets to financial assets measured at fair value through other comprehensive income (*1)	(204,457)
Increase in loss allowance for debt instruments measured at fair value through other comprehensive income	18,976
Effect of overlay approach application	(34,102)
Others (*2)	11,039
	(387,062)
Tax effects (*3)	110,051
Accumulated other comprehensive loss at January 1, 2018 after changes	₩ (806,745)

(*1) The effect on retained earnings arising from the recognition of impairment losses related to equity securities in the prior periods was transferred to other comprehensive income upon the application of IFRS 9.

(*2) Other adjustments include foreign currency translation and changes in non-controlling interests, resulting from the adoption of IFRS 9.

(*3) Tax effects due to the application of IFRS 9 are separately shown.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

60. Transition effects arising from changes in accounting policies (continued)

(ii) Reclassification of financial instruments upon adoption of IFRS 9

Details of reclassification of financial instruments as of January 1, 2018, the initial application date of IFRS 9, are as follows:

IAS 39		IFRS 9 (*2)	Carrying value under IAS 39 (*1)	Carrying value under IFRS 9 (*1)	Difference
Financial assets:					
Due from banks	Loans and receivables	Financial assets measured at FVTPL (*2)	₩ 902,124	833,942	(68,182)
	Loans and receivables	Amortized cost	19,988,001	19,988,001	
Loan receivables	Loans and receivables	Financial assets measured at FVTPL (*2)	750,342	778,985	28,643
	Loans and receivables	Amortized cost	277,126,029	277,126,029	
Other financial assets	Loans and receivables	Amortized cost	12,090,983	12,090,983	
Trading assets (debt securities)	Financial assets at FVTPL	Financial assets measured at FVTPL	23,640,646	23,640,646	
Trading assets (equity securities)	Financial assets at FVTPL	Financial assets measured at FVTPL	4,634,353	4,634,353	
Trading assets (deposit in gold and silver)	Financial assets at FVTPL	Financial assets measured at FVTPL	189,297	189,297	
Financial assets designated as at FVTPL (debt securities)	Financial assets at FVTPL	Financial assets measured at FVTPL (*3)	2,030,522	2,030,522	
	Financial assets at FVTPL	Financial assets designated as at FVTPL	80,288	80,288	
Financial assets designated as at FVTPL (equity securities)	Financial assets at FVTPL	Financial assets measured at FVTPL (*3)	1,162,553	1,162,553	
	Financial assets at FVTPL	Financial assets designated as at FVTPL	71,803	71,803	

Financial assets designated as at FVTPL (other securities compound financial instruments)	Financial assets at FVTPL	Financial assets measured at FVTPL (*3)	233,892	233,892	
Derivatives	Financial assets at FVTPL	Financial assets measured at FVTPL (*3)	3,400,178	3,348,803	(51,375)
AFS financial assets (debt securities)	AFS financial assets	Financial assets measured at FVTPL (*2)	528,745	533,452	4,707
	AFS financial assets	Financial assets measured at FVOCI	36,657,807	36,657,807	
AFS financial assets (equity securities)	AFS financial assets	Financial assets measured at FVTPL (*2)	4,339,979	4,350,969	10,990
	AFS financial assets	Financial assets measured at FVOCI	590,405	590,405	
HTM financial assets (debt securities)	HTM financial assets	Financial assets measured at FVTPL (*2)	565,813	529,906	(35,907)
	HTM financial assets	Amortized cost	24,424,867	24,424,867	
			₩ 413,408,627	413,297,503	(111,124)

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

60. Transition effects arising from changes in accounting policies (continued)

IAS 39		IFRS 9 (*2)	Carrying value under IAS 39 (*1)	Carrying value under IFRS 9 (*1)	Difference
Financial Liabilities:					
Deposits	Financial liability measured at amortized cost	Financial liabilities measured at amortized cost	₩ 249,419,224	249,419,224	
Trading liabilities	Financial liabilities at FVTPL	Financial liabilities measured at FVTPL	1,848,490	1,848,490	
Financial liabilities designated as at FVTPL	Financial liabilities at FVTPL	Financial liabilities designated as at FVTPL	8,260,636	8,260,636	
	Financial liabilities at FVTPL	Financial liabilities measured at FVTPL (*3)	36,973	36,973	
Derivatives	Financial liabilities at FVTPL	Financial liabilities measured at FVTPL (*3)	3,487,661	3,483,642	(4,019)
Borrowings	Financial liabilities measured at amortized cost	Financial liabilities measured at amortized cost	27,586,610	27,586,313	(297)
Debt securities issued	Financial liabilities measured at amortized cost	Financial liabilities measured at amortized cost	51,340,821	51,340,821	
Others	Financial liabilities measured at amortized cost	Financial liabilities measured at amortized cost	20,124,451	20,124,432	(19)
			₩ 362,104,866	362,100,531	(4,335)

- (*1) Gross carrying amounts that are before netting allowance for loan losses or credit loss allowance.
- (*2) Under IFRS 9, these financial instruments were categorized as financial assets or liabilities FVTPL, as 1) the instruments are not held within a business model whose objective is achieved by both collecting contractual cash flows and selling them, or 2) the contractual terms of them does not give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.
- (*3) For hybrid contracts including embedded derivatives, the host contract and the derivatives are separated in accordance with IFRS 9.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

60. Transition effects arising from changes in accounting policies (continued)

(iii) Impairment of financial assets upon adoption of IFRS 9
Changes of credit loss allowance as of January 1, 2018, the initial application date of IFRS 9, are as follows:

Classification based on IAS 39	Classification based on IFRS 9	Loss allowance based on IAS 39	Loss allowance based on IFRS 9
Loans and receivables			
Due from banks	Financial assets at amortized cost	₩ 14,054	15,062
Loan receivables	Financial assets at amortized cost	2,307,275	2,871,986
	Financial assets measured at FVTPL	3,329	
Other financial assets	Financial assets at amortized cost	49,679	51,818
AFS financial assets			
Debt securities	Financial assets measured at FVOCI		18,976
HTM financial assets			
Debt securities	Financial assets at amortized cost		8,559
		₩ 2,374,337	2,966,401
Financial guarantee	Financial guarantee	₩ 36,506	37,289
Unused credit line and other credit commitment	Unused credit line and other credit commitment	168,006	222,498
		₩ 204,512	259,787

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

60. Transition effects arising from changes in accounting policies (continued)

(iv) The reclassification applying business model

For the financial assets as of January 1, 2018, the date of the initial application of IFRS 9, the management of the Group has assessed business model of those, and classified those applying the IFRS.

The effect of reclassification is as follows:

1) Gross carrying amounts

	Carrying value based on the current standard	Amount reclassified	Amount remeasured	Carrying value based on the new standard	Changes in retained earnings and comprehensive income	Changes in other income
Financial assets:						
Due from banks						
Carrying value under IAS 39 as of January 1, 2018	₩ 20,890,125			20,890,125		
Reclassification to financial assets measured at FVTPL		(902,124)		(902,124)		
	20,890,125	(902,124)		19,988,001		
Loans						
Carrying value under IAS 39 as of January 1, 2018	277,876,371			277,876,371		
Reclassification to financial assets measured at FVTPL		(750,342)		(750,342)		
	277,876,371	(750,342)		277,126,029		
Other financial assets						
Carrying value under IAS 39 as of January 1, 2018	12,090,983			12,090,983		

Trading assets (debt instruments) (*1)

Carrying value under IAS 39 as of January 1, 2018	23,640,646	23,640,646
Reclassification to financial assets measured at FVTPL	(23,640,646)	(23,640,646)
	23,640,646	(23,640,646)

Trading assets (equity instruments)

Carrying value under IAS 39 as of January 1, 2018	4,634,353	4,634,353
Reclassification to financial assets measured at FVTPL	(4,634,353)	(4,634,353)
	4,634,353	(4,634,353)

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

60. Transition effects arising from changes in accounting policies (continued)

	Carrying value based on the current standard	Amount reclassified	Amount remeasured	Carrying value based on the new standard	Changes in retained earnings comprehensive income in other
Trading assets (gold deposit) (*1)					
Carrying value under IAS 39 as of January 1, 2018	189,297			189,297	
Reclassification to financial assets measured at FVTPL		(189,297)		(189,297)	
	189,297	(189,297)			
Derivatives (*1)					
Carrying value under IAS 39 as of January 1, 2018	3,400,178			3,400,178	
Reclassification to financial assets measured at FVTPL		(51,375)		(51,375)	
	3,400,178	(51,375)		3,348,803	
Financial assets designated at FVTPL (*1)					
Carrying value under IAS 39 as of January 1, 2018	3,579,057			3,579,057	
Reclassification to financial assets measured at FVTPL		(3,426,966)		(3,426,966)	
Reclassification to financial assets designated at FVTPL		(152,091)		(152,091)	
	₩ 3,579,057	(3,579,057)			

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

60. Transition effects arising from changes in accounting policies (continued)

	Carrying value based on the current standard	Amount reclassified	Amount remeasured	Carrying value based on the new standard	Changes in retained earnings (*3)	Changes in other comprehensive income (*3)
AFS (debt securities)						
Carrying value under IAS 39 as of January 1, 2018	₩ 37,186,552			37,186,552		
Reclassification to financial assets measured at FVTPL		(528,745)		(528,745)		
Reclassification to financial assets measured at FVOCI		(36,657,807)		(36,657,807)		
	37,186,552	(37,186,552)				
AFS (equity securities)						
Carrying value under IAS 39 as of January 1, 2018	4,930,385			4,930,385		
Reclassification to financial assets measured at FVTPL		(4,339,979)		(4,339,979)		
Reclassification to financial assets measured at FVOCI		(590,405)		(590,405)		
	4,930,385	(4,930,385)				
HTM (debt securities)						
Carrying value under IAS 39 as of January 1, 2018	24,990,680			24,990,680		
Reclassification to financial assets		(565,813)		(565,813)		

measured at FVTPL				
Reclassification to financial assets measured at amortized cost	(24,424,867)		(24,424,867)	
	24,990,680	(24,990,680)		
Financial assets as measured at FVTPL				
Carrying value under IAS 39 as of January 1, 2018				
Transfer from due from banks	902,124	(68,182)	833,942	(68,182)
Transfer from loans and other receivables	750,342	30,027	780,369	30,027
Transfer from trading assets	28,464,296		28,464,296	

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

60. Transition effects arising from changes in accounting policies (continued)

	Carrying value based on the current standard	Amount reclassified	Amount remeasured	Carrying value based on the new standard	Changes in retained earnings (*1)	Changes in other comprehensive income (*3)
Transfer from financial assets designated at FVTPL		3,426,967		3,426,967		
Transfer from AFS		4,868,724	7,708	4,876,432	108,532	(108,532)
Transfer from HTM		565,813	(35,907)	529,906		(35,907)
Transfer from derivative assets		51,375	(42,195)	9,180		
			(2,575)	(2,575)		
		39,029,641	(111,124)	38,918,517	138,559	(212,620)
Financial assets designated at FVTPL(IFRS 9) Carrying value under IAS 39 as of January 1, 2018						
Transfer from financial assets designated at FVTPL(IAS 39)		152,091		152,091		
		152,091		152,091		
Financial assets measured at FVOCI (*2) Carrying value under IAS 39 as of January 1, 2018						
Transfer from AFS		37,248,212		37,248,212	204,457	(204,457)
		37,248,212		37,248,212	204,457	(204,457)

Financial assets measured at amortized cost (*2) Carrying value under IAS 39 as of January 1, 2018					
Transfer from HTM	24,424,867		24,424,867		
	24,424,867		24,424,867		
	₩ 413,408,627	(111,124)	413,297,503	343,016	(417,077)

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

60. Transition effects arising from changes in accounting policies (continued)

	Carrying value based on the current standard	Amount reclassified	Amount remeasured	Carrying value based on the new standard	Changes in other comprehensive income retained earnings
Financial liabilities :					
Deposits					
Carrying value under IAS 39 as of January 1, 2018	₩ 249,419,224			249,419,224	
	249,419,224			249,419,224	
Trading liabilities (*1)					
Carrying value under IAS 39 as of January 1, 2018	1,848,490			1,848,490	
Reclassification to financial liabilities measured at FVTPL		(1,848,490)		(1,848,490)	
	1,848,490	(1,848,490)			
Financial liabilities designated at FVTPL					
Carrying value under IAS 39 as of January 1, 2018	8,297,609			8,297,609	
Reclassification to financial liabilities designated at FVTPL		(8,260,636)		(8,260,636)	
Reclassification to financial liabilities measured at FVTPL		(36,973)		(36,973)	
	8,297,609	(8,297,609)			
Financial liabilities measured at FVTPL					
Carrying value under IAS 39 as of January 1, 2018					
Transfer from trading liabilities		1,848,490		1,848,490	
Transfer from financial liabilities designated at		36,973		36,973	

FVTPL

	1,885,463	1,885,463
Financial liabilities designated at FVTPL		
Carrying value under IAS 39 as of January 1, 2018		
Transfer from financial liabilities designated at FVTPL	8,260,636	8,260,636
	8,260,636	8,260,636

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

60. Transition effects arising from changes in accounting policies (continued)

	Carrying value based on the current standard	Amount reclassified	Amount remeasured	Carrying value based on the new standard	Changes in other comprehensive retained earnings income
Financial liabilities :					
Derivative liabilities					
Carrying value under IAS 39 as of January 1, 2018	3,487,661			3,487,661	
Other			(4,019)	(4,019)	
	3,487,661		(4,019)	3,483,642	
Borrowings					
Carrying value under IAS 39 as of January 1, 2018	27,586,610			27,586,610	
Other			(297)	(297)	
	27,586,610		(297)	27,586,313	
Debt securities issued					
Carrying value under IAS 39 as of January 1, 2018	51,340,821			51,340,821	
Other financial liabilities					
Carrying value under IAS 39 as of January 1, 2018	20,124,451			20,124,451	
Other			(19)	(19)	
	20,124,451		(19)	20,124,432	
	₩ 362,104,866		(4,335)	362,100,531	

(*1) With respect to financial assets and financial liabilities reclassified from the category of fair value through profit or loss, effective interest rates calculated on the initial application date of IFRS 9 and interest income or expense recognized shall be disclosed. Such reclassification has not occurred as a result of the IFRS 9 adoption.

(*2) With respect to financial assets and financial liabilities reclassified to financial instruments measured at amortized cost, and financial assets measured at fair value through profit or loss reclassified to the category of fair value through other comprehensive income, the gain or loss on fair value measurement that would otherwise

have been recognized in profit or loss or other comprehensive income in the reporting period, and the fair value of the financial assets or financial liabilities, shall be disclosed. Such reclassification has not occurred as a result of the IFRS 9 adoption.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

60. Transition effects arising from changes in accounting policies (continued)

2) Credit loss allowance

	Carrying value based on the current standard	Amount reclassified	Amount remeasured	Carrying value based on the new standard	Changes in retained earnings	Changes in other comprehensive income
Credit loss allowance for						
Due from banks	₩ 14,054		1,008	15,062	(1,008)	
Loans	2,310,604	(3,328)	564,710	2,871,986	(561,382)	
Financial asset measured at FVOCI (Debt securities)			18,976	18,976	(18,976)	18,976
Financial asset measured at amortized cost (Debt securities)			8,559	8,559	(8,559)	
Other assets	49,679		2,139	51,818	(2,139)	
Financial guarantee	36,506		783	37,289	(783)	
Unused credit line and other credit commitment	168,006		54,492	222,498	(54,492)	
	₩ 2,578,849	(3,328)	650,667	3,226,188	(647,339)	18,976

(v) Hedge accounting

IFRS 9 maintains the mechanics of hedge accounting (i.e. fair value hedge, cash flow hedge, hedge of a net investment in a foreign operation) as defined in IAS 39, whereas a principle-based hedge accounting requirements that focuses on an entity's risk replaced complex and rule-based hedge accounting requirements in IAS 39. Additionally, qualifying hedged items and qualifying hedging instruments have been expanded and hedge accounting requirements have been eased by eliminating a subsequent hedge effectiveness assessment and a quantitative test (80~125%). Hedge accounting can be applied to certain transactions that fail to qualify for hedge accounting requirements under IAS 39 when applying IFRS 9, and thus alleviates profit or loss volatility.

(vi) Financial impact with IFRS 15

As of December 31, 2018, the effect of applying IFRS 15 is as follows in the statement of comprehensive income of the Group as of December 31, 2018 (excluding trust fees reflected by the conversion effect). The effect on the terminated cash flow statement is not significant.

The effect on the consolidated statement of financial position as of December 31, 2018 is as follows.

	Disclosed amount	Adjustments	Amount before implementation of IFRS 15
Liabilities:			
Provisions:			
Credit card	₩	(24,700)	24,700
Other liabilities:			
Accounts payable	9,748,168	(41,758)	9,789,926
Unearned revenues	236,827	(209,241)	446,068
Others	2,496,169	275,698	2,220,471

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

60. Transition effects arising from changes in accounting policies (continued)

The effect on the consolidated statement of comprehensive income is as follows.

	Disclosed amount	Adjustments	Amount before implementation of IFRS 15
Net fee and commission income:(*1)(*2)			
Fee and commission income:			
Credit card	₩ 1,360,322	(1,135,515)	2,495,837
Fee and commission incomes			
Credit card payment	(944,533)	1,135,515	(2,080,048)

(*1) Before adopting IFRS 15, the Group defers and recognizes the amount allocated to the credit card points as unearned revenue and revenue is recognized only when the points are redeemed and the Group has fulfilled its obligation to provide the benefits. In addition, a provision for onerous contracts is recognized when the expected benefits to be derived by the Group from customer loyalty program are lower than the unavoidable cost of meeting its obligations under the programmes. However under IFRS 15, the amount allocated to the credit card points is regarded as consideration payable to the customers and recognized as a reduction of fee and commission income, estimated as fair value of the monetary benefits taking into account the expected redemption rate.

(*2) The Group has changed the recognition of card holder service fee paid to a customer recognized as fee and commission expense before adopting IFRS 15, to reduction of fee and commission income under IFRS 15.

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

61. Condensed Shinhan Financial Group (Parent Company only) Financial Statements
STATEMENTS OF FINANCIAL POSITION

	2017	2018
Assets		
Deposits		
Banking subsidiaries	₩ 3	24
Other		48,572
Receivables from subsidiaries:		
Non-banking subsidiaries	1,234,527	1,644,666
Investment (at equity) in subsidiaries:		
Banking subsidiaries	13,752,799	13,792,072
Non-banking subsidiaries	11,980,360	11,983,360
Trading asset	255,086	
Financial assets at FVTPL		1,927,150
Property, equipment and intangible assets, net	7,180	7,983
Other assets		
Banking subsidiaries	224,688	311,052
Non-banking subsidiaries	179,258	162,695
Other	5,882	236,658
Total assets	₩ 27,639,783	30,114,232
Liabilities and equity		
Borrowings	₩ 5,000	125,000
Debt securities issued	7,003,622	7,812,358
Accrued expenses & other liabilities	439,083	526,806
Total liabilities	7,447,705	8,464,164
Equity	20,192,078	21,650,068
Total liabilities and equity	₩ 27,639,783	30,114,232

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

61. Condensed Shinhan Financial Group (Parent Company only) Financial Statements (continued)**CONDENSED STATEMENTS OF INCOME**

	2016	2017	2018
Income			
Dividends from banking subsidiaries	₩ 651,524	481,524	541,524
Dividends from non-banking subsidiaries	994,615	448,588	866,150
Interest income from banking subsidiaries	2,187	228	268
Interest income from non-banking subsidiaries	35,005	27,111	31,224
Other income	57,011	51,953	74,215
Total income	1,740,342	1,009,404	1,513,381
Expenses			
Interest expense	(197,519)	(179,330)	(187,882)
Other expense	(72,157)	(74,733)	(89,145)
Total expenses	(269,676)	(254,063)	(277,027)
Profit before income tax expense	1,470,666	755,341	1,236,354
Income tax expense (benefit)	416	614	1,471
Profit for the year	₩ 1,470,250	754,727	1,234,883

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SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(In millions of won)

61. Condensed Shinhan Financial Group (Parent Company only) Financial Statements (continued)**CONDENSED STATEMENTS OF CASH FLOWS**

	2016	2017	2018
Cash flows from operating activities			
Profit before income taxes	₩ 1,470,666	755,341	1,236,354
Non-cash items included in profit before tax	(1,480,864)	(774,385)	(1,251,379)
Changes in operating assets and liabilities	320,716	(66,339)	(1,671,189)
Net interest paid	(158,620)	(149,642)	(153,926)
Dividend received from subsidiaries	1,646,139	930,112	1,407,674
Income tax refunds		100	
Net cash provided by operating activities	1,798,037	695,187	(432,466)
Cash flows from investing activities			
Loan collection (origination) to non-banking subsidiaries	300,000	(300,000)	(412,630)
Acquisition of subsidiary	(500,000)	(30,000)	(42,273)
Other, net	(1,308)	(715)	(231,281)
Net cash provided by (used in) investing activities	(201,308)	(330,715)	(686,184)
Cash flows from financing activities			
Issuance of hybrid bonds		224,466	1,107,838
Redemption of hybrid bonds	(240,000)	(300,000)	
Redemption of preferred stock	(1,125,906)		
Net changes in borrowings			120,000
Issuance of debt securities issued	1,597,413	1,497,588	2,396,138
Repayments of debt securities issued	(1,660,000)	(1,080,000)	(1,590,000)
Dividend paid	(669,103)	(706,565)	(714,705)
Acquisition of treasury stock			(151,993)
Net cash used in financing activities	(2,097,596)	(364,511)	1,167,278
Net increase (decrease) in cash and cash equivalents	(500,867)	(39)	48,628

Cash and cash equivalents at beginning of year	500,906	39	
Cash and cash equivalents at end of year	₩	39	48,628

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