

Independent Auditor's Report (Consolidated Financial Statements) of Shinhan Financial Group as of December 31, 2019

**SHINHAN FINANCIAL GROUP CO., LTD.
AND SUBSIDIARIES**

**Consolidated Financial Statements
December 31, 2019 and 2018**

(With Independent Auditors' Report Thereon)

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Independent Auditors' Report

Based on a report originally issued in Korean

To the Board of Directors and Stockholders of
Shinhan Financial Group Co., Ltd.:

Opinion

We have audited the consolidated financial statements of Shinhan Financial Group Co., Ltd. and its subsidiaries ("the Group"), which comprise the consolidated statements of financial position as of December 31, 2019 and 2018, the consolidated statements of comprehensive income, changes in equity and cash flows for the years then ended, and notes, comprising significant accounting policies and other explanatory information.

In our opinion, the accompanying consolidated financial statements present fairly, in all material respects, the consolidated financial position of the Group as of December 31, 2019 and 2018, and its consolidated financial performance and its consolidated cash flows for the years then ended in accordance with Korean International Financial Reporting Standards ("K-IFRS").

Basis for Opinion

We conducted our audits in accordance with Korean Standards on Auditing (KSAs). Our responsibilities under those standards are further described in the *Auditors' Responsibilities for the Audit of the Consolidated Financial Statements* section of our report. We are independent of the Group in accordance with the ethical requirements that are relevant to our audit of the consolidated financial statements in the Republic of Korea, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Key Audit Matters

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the consolidated financial statements as of and for the year ended December 31, 2019. These matters were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

(1) Assessment of the allowance for credit loss

As discussed in Notes 4(b) and 12 to the consolidated financial statements, the Group recognized an allowance for credit loss using the Expected Credit loss (ECL) impairment model for the loans at amortized cost amounting to KRW 2,684,835 million as of December 31, 2019. ECL allowances are measured at amounts equal to either (i) 12-month ECL; or (ii) lifetime ECL for those loans that have experienced a Significant Increase in Credit Risk (SICR) since initial recognition or when the loans are impaired. The Group measures ECL allowance on an individual basis for individually significant corporate loans which have had significant increases in credit risk or have become impaired. The individual assessment involves judgment by the Group in estimating the future cash flows including the value of related collateral. The allowance for credit loss for all other loans is measured on a collective basis. For these loans, the Group measures ECL by estimating the Probability of Default (PD), the Loss Given Default (LGD) and the Exposure at Default (EAD) as well as the impact of Forward-looking Information (FLI). For corporate loans, one of the relevant inputs for determining PD is the internal credit risk rating of the borrower. The internal credit risk rating of the borrower is defined by the Group using quantitative and qualitative factors. The evaluation of the qualitative factors involves a high level of judgment by the Group.

We have identified the following as key audit matters, considering the possibility of errors, the level of involvement of management judgment, and the impact of risks:

- Risk that the allowance for credit loss is misstated due to the Group's biased judgment on the estimates of future cash flows for the corporate loans with ECL measured on an individual basis
- Risk that the allowance for credit loss is misstated due to error or fraud in determination of when a loan's credit risk has significantly increased since initial recognition, the analysis of the qualitative factors in determining the internal

credit risk ratings of corporate loans, the calculation of 12 month and lifetime PD, the calculation of LGD and the manner in which FLI is incorporated in the ECL calculation.

The primary audit procedures we performed to address the above key audit matters included:

- We tested certain internal controls over: (i) the estimated future cash flows for individually assessed corporate loans, including controls over the work of external valuation specialists' engaged by the Group; (ii) the assessment of qualitative factors in the process of determining the internal credit risk rating of the loans, including the review of internal credit risk ratings performed by an independent department with access to the same qualitative information; (iii) the validation of the models used to determine the inputs to the collective ECL calculation and the impact of FLI; (iv) the determination of SICR; and (v) the completeness and accuracy of data used in the models.
- We assessed the estimates of future cash flows on a sample basis by (i) comparing assumptions made with information obtained from internal and external sources, and (ii) assessing the reliability of information used in the estimates, including the qualification of external valuation specialists engaged by the Group.
- We involved credit risk and information technology professionals with specialized skills, industry knowledge and relevant experience who assisted in: (i) evaluating the methodology and key inputs used in determining the PD and LGD parameters and SICR; (ii) evaluating how FLI was incorporated in the collective ECL model; and (iii) recalculating a sample of ECL models and related inputs.
- We checked, for a sample of corporate loans with ECL measured on a collective basis, that Group policy was applied in the internal credit risk rating process and assessed if the Group's policy is aligned with international financial reporting standards.

(2) Assessment of the measurement of fair value of level 3 financial instruments

As discussed in Note 4(e) to the consolidated financial statements, the Group classifies financial instruments measured at fair value using valuation techniques where one or more significant inputs are not based on observable market data as level 3. As of December 31, 2019, the recorded fair values of the Group's debt securities, equity securities, derivative assets, derivative liabilities, and financial liabilities designated at fair value through profit or loss classified as level 3 were KRW 8,951,398 million, KRW 511,831 million, KRW 464,826 million, KRW 308,970 million, and KRW 8,511,489 million, respectively. In order to measure these financial instruments, the Group uses discounted cash flow models, option models, or net asset value models and these models use various inputs and assumptions, depending on the nature of the level 3 financial instruments.

We have identified the following as key audit matters, considering the possibility of errors, the level of involvement of management judgment, and the impact of risks:

- Risk that the estimate of the financial instruments' fair value is misstated due to applying inappropriate valuation methodologies, models' significant inputs which were not directly observable in financial markets, such as volatility of underlying assets, correlations, regression coefficients, discount rates, and growth rates, and the related assumptions. The primary audit procedures we performed to address the above key audit matters included:

We tested certain internal controls over the Group's process to measure the fair value of level 3 financial instruments. This included controls related to (1) the development, validation and changes in the methodology of the models used to value the level 3 financial instruments, (2) the development and application of the significant unobservable inputs and assumptions used in the measurement of fair values, and (3) the monitoring of changes to the inputs and assumptions. We evaluated the characteristics of new products and the valuation techniques used by the Group for these new products. For a sample of level 3 financial instruments, we compared the Group's fair value measurement recorded at period end to the sales price of a subsequent transaction. We involved valuation professionals with specialized skills and knowledge, who assisted in:

- Evaluating the valuation techniques and significant unobservable inputs on a sample basis; and
- Developing models and significant unobservable inputs independently and comparing the resulting fair

value estimate to the Group's fair value measurement for a sample of level 3 financial instruments.

Other Matter

The procedures and practices utilized in the Republic of Korea to audit such consolidated financial statements may differ from those generally accepted and applied in other countries.

Responsibilities of Management and Those Charged with Governance for the Consolidated Financial Statements

Management is responsible for the preparation and fair presentation of the consolidated financial statements in accordance with K-IFRS, and for such internal control as management determines is necessary to enable the preparation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated financial statements, management is responsible for assessing the Group's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Group or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Group's financial reporting process.

Auditors' Responsibilities for the Audit of the Consolidated Financial Statements

Our objectives are to obtain reasonable assurance about whether the consolidated financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with KSAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these consolidated financial statements.

As part of an audit in accordance with KSAs, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the consolidated financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Group's internal control.
- Evaluate the appropriateness of accounting policies used in the preparation of the consolidated financial statements and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditors' report to the related disclosures in the consolidated financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditors' report. However, future events or conditions may cause the Group to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the consolidated financial statements, including the disclosures, and whether the consolidated financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the group audit. We remain solely responsible for our audit opinion.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the consolidated financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditors' report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

The engagement partner on the audit resulting in this independent auditors' report is Min-Seon Chae.

KPMG Samjong Accounting Corp.

Seoul, Korea
March 5, 2020

This report is effective as of March 5, 2020, the audit report date. Certain subsequent events or circumstances, which may occur between the audit report date and the time of reading this report, could have a material impact on the accompanying consolidated financial statements and notes thereto. Accordingly, the readers of the audit report should understand that the above audit report has not been updated to reflect the impact of such subsequent events or circumstances, if any.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Consolidated Statements of Financial Position

As of December 31, 2019 and 2018

(In millions of won)

| | <u>Note</u> | <u>2019</u> | <u>2018</u> |
|---|----------------|----------------------|--------------------|
| Assets | | | |
| Cash and due from banks at amortized cost | 4, 8, 19 | ₩ 28,423,744 | 17,348,626 |
| Financial assets at fair value through profit or loss | 4, 9, 19 | 53,163,143 | 43,534,766 |
| Derivative assets | 4, 10 | 2,829,274 | 1,793,613 |
| Securities at fair value through other comprehensive income | 4, 11, 19 | 59,381,053 | 38,314,170 |
| Securities at amortized cost | 4, 11, 19 | 45,582,065 | 28,478,136 |
| Loans at amortized cost | 4, 12, 19 | 323,244,979 | 299,609,472 |
| Property and equipment, net | 13, 18, 19, 48 | 4,083,328 | 3,003,886 |
| Intangible assets | 14 | 5,558,714 | 4,320,134 |
| Investments in associates | 15 | 1,452,861 | 671,330 |
| Current tax receivable | | 88,433 | 45,100 |
| Deferred tax assets | 41 | 218,254 | 426,965 |
| Investment property | 16 | 488,610 | 474,820 |
| Employee benefits | 25 | 1,682 | - |
| Other assets | 4, 17 | 27,878,281 | 21,571,918 |
| Assets held for sale | | <u>25,160</u> | <u>7,574</u> |
| Total assets | | <u>₩ 552,419,581</u> | <u>459,600,510</u> |

See accompanying notes to the consolidated financial statements.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Consolidated Statements of Financial Position (Continued)
As of December 31, 2019 and 2018

| <i>(In millions of won)</i> | <u>Note</u> | <u>2019</u> | <u>2018</u> |
|--|-------------|--------------------|--------------------|
| Liabilities | | | |
| Deposits | 4, 20 | ₩ 294,874,256 | 265,000,190 |
| Financial liabilities at fair value through profit or loss | 4, 21 | 1,632,457 | 1,420,306 |
| Financial liabilities designated at fair value through profit or loss | 4, 22 | 9,409,456 | 8,535,800 |
| Derivative liabilities | 4, 10 | 2,303,012 | 2,439,892 |
| Borrowings | 4, 23 | 34,863,156 | 29,818,542 |
| Debt securities issued | 4, 24 | 75,363,364 | 63,227,699 |
| Liabilities for defined benefit obligations | 25 | 121,140 | 127,348 |
| Provisions | 26 | 557,024 | 508,416 |
| Current tax payable | | 512,757 | 430,306 |
| Deferred tax liabilities | 41 | 451,603 | 22,020 |
| Liabilities under insurance contracts | 27 | 52,163,417 | 26,218,882 |
| Other liabilities | 4, 28, 48 | 38,237,558 | 25,199,679 |
| Total liabilities | | <u>510,489,200</u> | <u>422,949,080</u> |
| Equity | | | |
| | 29 | | |
| Capital stock | | 2,732,463 | 2,645,053 |
| Hybrid bonds | | 1,731,235 | 1,531,759 |
| Capital surplus | | 10,565,353 | 9,895,488 |
| Capital adjustments | | (1,116,770) | (552,895) |
| Accumulated other comprehensive loss | | (260,156) | (753,220) |
| Retained earnings | | 25,525,821 | 22,959,440 |
| Total equity attributable to equity holders of Shinhan Financial Group Co., Ltd. | | <u>39,177,946</u> | <u>35,725,625</u> |
| Non-controlling interests | | 2,752,435 | 925,805 |
| Total equity | | <u>41,930,381</u> | <u>36,651,430</u> |
| Total liabilities and equity | ₩ | <u>552,419,581</u> | <u>459,600,510</u> |

See accompanying notes to the consolidated financial statements.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Consolidated Statements of Comprehensive Income

For the years ended December 31, 2019 and 2018

| <i>(In millions of won)</i> | Note | 2019 | 2018 |
|--|-------------|-------------------------|-------------------------|
| Interest income | | | |
| Financial assets at fair value through other comprehensive income and at amortized cost | ₩ | 14,878,516 | 12,891,850 |
| Financial assets at fair value through profit or loss | | 828,846 | 680,606 |
| | | <u>15,707,362</u> | <u>13,572,456</u> |
| Interest expense | | (5,969,398) | (4,992,367) |
| Net interest income | 31 | 9,737,964 | 8,580,089 |
| Fees and commission income | | 3,557,013 | 3,295,256 |
| Fees and commission expense | | (1,416,494) | (1,356,259) |
| Net fees and commission income | 32 | 2,140,519 | 1,938,997 |
| Insurance income | | 7,569,425 | 4,398,738 |
| Insurance expenses | | (8,066,351) | (4,870,437) |
| Net insurance expenses | 27 | (496,926) | (471,699) |
| Dividend income | 33 | 82,158 | 87,826 |
| Net gain on financial instruments at fair value through profit or loss | 34 | 1,385,482 | 420,026 |
| Net gain (loss) on financial instruments at fair value through profit or loss (overlay approach) | 9 | (247,585) | 74,944 |
| Net loss on financial instruments designated at fair value through profit or loss | 35 | (846,046) | (26,643) |
| Net foreign currency transaction gain | | 440,948 | 194,136 |
| Net gain on disposal of financial asset at fair value through other comprehensive income | 11 | 152,278 | 20,554 |
| Net gain (loss) on disposal of securities at amortized cost | 11 | 66 | (9) |
| Provision for allowance for credit loss | 36 | (980,692) | (747,877) |
| General and administrative expenses | 37 | (5,134,674) | (4,741,575) |
| Other operating expenses, net | 39 | (1,187,242) | (829,355) |
| Operating income | | 5,046,250 | 4,499,414 |
| Equity method income | 15 | 53,287 | 17,488 |
| Other non-operating income (expense), net | 40 | (188,029) | (50,292) |
| Profit before income taxes | | <u>4,911,508</u> | <u>4,466,610</u> |
| Income tax expense | 41 | (1,269,124) | (1,268,345) |
| Profit for the year | ₩ | <u><u>3,642,384</u></u> | <u><u>3,198,265</u></u> |

See accompanying notes to the consolidated financial statements.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Consolidated Statements of Comprehensive Income (Continued)
For the years ended December 31, 2019 and 2018

| <i>(In millions of won, except earnings per share data)</i> | Note | 2019 | 2018 |
|---|-------------|------------------|------------------|
| Other comprehensive income for the year, net of income tax | 29 | | |
| Items that are or may be reclassified to profit or loss: | | | |
| Gain on financial asset at fair value through other comprehensive income | ₩ | 352,085 | 161,008 |
| Gain (loss) on financial instruments at fair value through profit or loss (overlay approach) | 9 | 162,967 | (54,333) |
| Equity in other comprehensive income of associates | | 3,302 | 7,407 |
| Foreign currency translation adjustments for foreign operations | | 105,771 | 19,983 |
| Net change in unrealized fair value of cash flow hedges | | (18,589) | (20,192) |
| Other comprehensive income of separate account | | 10,427 | 8,676 |
| | | <u>615,963</u> | <u>122,549</u> |
| Items that will never be reclassified to profit or loss: | | | |
| Remeasurements of the defined benefit liability | | (54,644) | (93,098) |
| Equity in other comprehensive income (loss) of associates | | (8) | 28 |
| Valuation gain on financial asset at fair value through other comprehensive income | | 18,885 | 22,725 |
| Loss on disposal of financial asset at fair value through other comprehensive income | | (5,861) | (2,635) |
| Changes in own credit risk on financial liabilities designated at fair value through profit of loss | | (8,425) | 1,723 |
| | | <u>(50,053)</u> | <u>(71,257)</u> |
| Total other comprehensive income, net of income tax | | <u>565,910</u> | <u>51,292</u> |
| Total comprehensive income for the year | ₩ | <u>4,208,294</u> | <u>3,249,557</u> |
| Profit attributable to: | | | |
| Equity holders of Shinhan Financial Group Co., Ltd. | 29, 42 ₩ | 3,403,497 | 3,156,722 |
| Non-controlling interests | | 238,887 | 41,543 |
| | ₩ | <u>3,642,384</u> | <u>3,198,265</u> |
| Total comprehensive income attributable to: | | | |
| Equity holders of Shinhan Financial Group Co., Ltd. | ₩ | 3,890,701 | 3,207,602 |
| Non-controlling interests | | 317,593 | 41,955 |
| | ₩ | <u>4,208,294</u> | <u>3,249,557</u> |
| Earnings per share: | 29, 42 | | |
| Basic and diluted earnings per share in won | ₩ | <u>7,000</u> | <u>6,579</u> |

See accompanying notes to the consolidated financial statements.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Consolidated Statements of Changes in Equity

For the year ended December 31, 2019 and 2018

(In millions of won)

| | Equity attributable to equity holders of Shinhan Financial Group Co., Ltd. | | | | | | | Non-controlling interests | Total |
|---|--|--------------|-----------------|---------------------|---|-------------------|------------|---------------------------|------------|
| | Capital stock | Hybrid bonds | Capital surplus | Capital adjustments | Accumulated other comprehensive income (loss) | Retained earnings | Sub-total | | |
| Balance at January 1, 2018 | 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 (loss) 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 instruments at fair value through profit or loss (overlay approach) | - | - | - | - | (54,333) | - | (54,333) | - | (54,333) |
| Equity in other comprehensive income of associates | - | - | - | - | 7,435 | - | 7,435 | - | 7,435 |
| Foreign currency translation adjustments | - | - | - | - | 20,465 | - | 20,465 | (482) | 19,983 |
| Net change in unrealized fair value of cash flow hedges | - | - | - | - | (20,192) | - | (20,192) | - | (20,192) |
| Other comprehensive income of separate account | - | - | - | - | 8,676 | - | 8,676 | - | 8,676 |
| Remeasurements of defined benefit plans | - | - | - | - | (92,687) | - | (92,687) | (411) | (93,098) |
| Changes in own credit risk on financial liabilities designated at fair value through profit or loss | - | - | - | - | 1,723 | - | 1,723 | - | 1,723 |
| Total other comprehensive income | - | - | - | - | 50,880 | - | 50,880 | 412 | 51,292 |
| Total comprehensive income | - | - | - | - | 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 |
| Change in other non-controlling interests | - | - | - | - | - | - | - | 3,608 | 3,608 |
| | - | 1,107,838 | 8,153 | (154,860) | - | (734,463) | 226,668 | 3,608 | 230,276 |
| Reclassification of OCI to 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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Consolidated Statements of Changes in Equity (Continued)

For the year ended December 31, 2019 and 2018

(In millions of won)

| | Equity attributable to equity holders of Shinhan Financial Group Co., Ltd. | | | | | | | | Non-controlling interests | Total |
|---|--|--------------|-----------------|---------------------|---|-------------------|------------|------------|---------------------------|------------|
| | Capital stock | Hybrid bonds | Capital surplus | Capital adjustments | Accumulated other comprehensive income (loss) | Retained earnings | Sub-total | | | |
| Balance at January 1, 2019 | ₩ | 2,645,053 | 1,531,759 | 9,895,488 | (552,895) | (753,220) | 22,959,440 | 35,725,625 | 925,805 | 36,651,430 |
| Total comprehensive income for the year | | | | | | | | | | |
| Profit for the year | | - | - | - | - | - | 3,403,497 | 3,403,497 | 238,887 | 3,642,384 |
| Other comprehensive income (loss), net of income tax: | | | | | | | | | | |
| Gain on financial asset at fair value through other comprehensive income | | - | - | - | - | 297,652 | - | 297,652 | 67,457 | 365,109 |
| Gain on financial instruments at fair value through profit or loss (overlay approach) | | - | - | - | - | 150,678 | - | 150,678 | 12,289 | 162,967 |
| Equity in other comprehensive income of associates | | - | - | - | - | 3,294 | - | 3,294 | - | 3,294 |
| Foreign currency translation adjustments | | - | - | - | - | 104,388 | - | 104,388 | 1,383 | 105,771 |
| Net change in unrealized fair value of cash flow hedges | | - | - | - | - | (15,960) | - | (15,960) | (2,629) | (18,589) |
| Other comprehensive income of separate account | | - | - | - | - | 10,427 | - | 10,427 | - | 10,427 |
| Remeasurements of defined benefit plans | | - | - | - | - | (54,850) | - | (54,850) | 206 | (54,644) |
| Changes in own credit risk on financial liabilities designated at fair value through profit or loss | | - | - | - | - | (8,425) | - | (8,425) | - | (8,425) |
| Total other comprehensive income | | - | - | - | - | 487,204 | - | 487,204 | 78,706 | 565,910 |
| Total comprehensive income | | - | - | - | - | 487,204 | 3,403,497 | 3,890,701 | 317,593 | 4,208,294 |
| Other changes in equity | | | | | | | | | | |
| Dividends | | - | - | - | - | - | (753,041) | (753,041) | - | (753,041) |
| Dividends to hybrid bonds | | - | - | - | - | - | (61,993) | (61,993) | - | (61,993) |
| Issuance of hybrid bonds | | - | 199,476 | - | - | - | - | 199,476 | - | 199,476 |
| Issuance of convertible preferred shares | | 87,410 | - | 660,381 | - | - | - | 747,791 | - | 747,791 |
| Acquisition of treasury stock | | - | - | - | (444,077) | - | - | (444,077) | - | (444,077) |
| Change in other capital adjustments | | - | - | 9,484 | (119,798) | - | (16,222) | (126,536) | - | (126,536) |
| Change in other non-controlling interests | | - | - | - | - | - | - | - | 1,509,037 | 1,509,037 |
| | | 87,410 | 199,476 | 669,865 | (563,875) | - | (831,256) | (438,380) | 1,509,037 | 1,070,657 |
| Reclassification of OCI retained earnings | | - | - | - | - | 5,860 | (5,860) | - | - | - |
| Balance at December 31, 2019 | ₩ | 2,732,463 | 1,731,235 | 10,565,353 | (1,116,770) | (260,156) | 25,525,821 | 39,177,946 | 2,752,435 | 41,930,381 |

See accompanying notes to the consolidated financial statements

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Consolidated Statements of Cash Flows

For the years ended December 31, 2019 and 2018

| <i>(In millions of won)</i> | Note | 2019 | 2018 |
|--|-------------|--------------------|--------------------|
| Cash flows from operating activities | | | |
| Profit before income taxes | ₩ | 4,911,508 | 4,466,610 |
| Adjustments for: | | | |
| Interest income | 31 | (15,707,362) | (13,572,456) |
| Interest expense | 31 | 5,969,398 | 4,992,367 |
| Dividend income | 33 | (82,158) | (87,826) |
| Net fees and commission expense | | 125,975 | 176,932 |
| Net insurance loss | | 2,098,617 | 2,080,509 |
| Net loss (gain) on financial instruments at fair value through profit or loss | 34 | (427,618) | 66,455 |
| Net loss (gain) on financial instruments at fair value through profit or loss (overlay approach) | 9 | 247,585 | (74,944) |
| Net foreign currency translation loss | | 147,952 | 377,632 |
| Net loss (gain) on financial instruments designated at fair value through profit or loss | 35 | 33,872 | (382,667) |
| Net gain on disposal of financial asset at fair value through other comprehensive income | 11 | (152,278) | (20,554) |
| Net loss (gain) on disposal of securities at amortized cost | 11 | (66) | 9 |
| Provision for allowance for credit loss | 36 | 980,692 | 747,877 |
| Employee costs | 25 | 188,313 | 155,672 |
| Depreciation and amortization | 37 | 677,152 | 301,916 |
| Other operating expense (income) | 39 | 305,781 | (278,274) |
| Equity method income, net | 15 | (53,287) | (17,488) |
| Other non-operating expense | 40 | 148,091 | 3,147 |
| | | <u>(5,499,341)</u> | <u>(5,531,693)</u> |
| Changes in assets and liabilities: | | | |
| Cash and due from banks at amortized cost | | (10,059,356) | 6,024,743 |
| Securities at fair value through profit or loss | | (3,977,211) | (3,082,516) |
| Due from banks at fair value through profit or loss | | 73,904 | (82,014) |
| Loans at fair value through profit or loss | | (943,321) | (422,326) |
| Financial asset designated at fair value through profit or loss | | 847,715 | 723,037 |
| Derivative instruments | | 58,532 | 203,006 |
| Loans at amortized cost | | (18,831,825) | (27,547,413) |
| Other assets | | (4,452,651) | (5,177,725) |

See accompanying notes to the consolidated financial statements.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Consolidated Statements of Cash Flows (Continued)
For the years ended December 31, 2019 and 2018

| <i>(In millions of won)</i> | <u>Note</u> | <u>2019</u> | <u>2018</u> |
|--|-------------|---------------------|---------------------|
| Deposits | ₩ | 29,123,272 | 16,699,467 |
| Liabilities for defined benefit obligations | | (263,882) | (145,639) |
| Provisions | | 28,380 | 14,542 |
| Other liabilities | | 7,851,505 | 174,590 |
| | | <u>(544,938)</u> | <u>(12,618,248)</u> |
| Income taxes paid | | (1,130,148) | (850,696) |
| Interest received | | 15,200,114 | 13,208,601 |
| Interest paid | | (5,793,865) | (5,058,596) |
| Dividends received | | 35,716 | 63,826 |
| | | <u>7,179,046</u> | <u>(6,320,196)</u> |
| Net cash provided by (used in) operating activities | | | |
| Cash flows from investing activities | | | |
| Decrease in financial instruments at fair value through profit or loss | | 3,690,283 | 2,150,860 |
| Increase in financial instruments at fair value through profit or loss | | (6,712,873) | (3,290,960) |
| Proceeds from disposal of securities at fair value through other comprehensive income | | 36,334,241 | 27,074,948 |
| Acquisition of securities at fair value through other comprehensive income | | (46,908,632) | (27,037,290) |
| Proceeds from disposal of securities at amortized cost | | 6,722,627 | 2,093,506 |
| Acquisition of securities at amortized cost | | (12,209,898) | (5,836,342) |
| Proceeds from disposal of property and equipment | 13, 40 | 51,942 | 39,202 |
| Acquisition of property and equipment | 13 | (270,386) | (142,933) |
| Proceeds from disposal of intangible assets | 14, 40 | 24,825 | 3,638 |
| Acquisition of intangible assets | 14 | (318,930) | (157,160) |
| Proceeds from disposal of investments in associates | | 182,604 | 189,118 |
| Acquisition of investments in associates | | (669,341) | (227,914) |
| Proceeds from disposal of investment property | 16, 40 | 86,422 | 15,433 |
| Acquisition of investment property | 16 | (2,774) | (115,333) |
| Proceeds from disposal of assets held for sale | | 137 | 4,498 |
| Other, net | | (264,585) | (311,744) |
| Proceeds from settlement of hedging derivative financial instruments for available-for-sale financial assets | | 19,303 | 67,039 |
| Settlement of hedging derivative financial instruments for available-for-sale financial assets | | (195,900) | (26,653) |
| Acquisition of subsidiaries, net of cash acquired | 47 | (2,246,932) | (4,498) |
| Net cash used in investing activities | | <u>(22,687,867)</u> | <u>(5,512,585)</u> |

See accompanying notes to the consolidated financial statements.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Consolidated Statements of Cash Flows (Continued)

For the years ended December 31, 2019 and 2018

| <i>(In millions of won)</i> | <u>Note</u> | <u>2019</u> | <u>2018</u> |
|---|-------------|--------------------|-------------------|
| Cash flows from financing activities | | | |
| Issuance of hybrid bonds | ₩ | 199,476 | 1,107,838 |
| Net increase in borrowings | | 5,017,269 | 1,772,203 |
| Proceeds from debt securities issued | | 31,083,390 | 26,487,712 |
| Repayments of debt securities issued | | (19,881,717) | (14,689,246) |
| Other liabilities | | (33,619) | 528 |
| Dividends paid | | (830,772) | (714,705) |
| Proceeds from settlement of hedging derivative financial instruments for debt securities issued | | 1,694,362 | 10,675 |
| Settlement of hedging derivative financial instruments for debt securities issued | | (1,716,320) | (16,832) |
| Acquisition of treasury stock | | (444,077) | (151,993) |
| Increase in non-controlling interests | | 312,390 | 347 |
| Redemption of lease liabilities | | (269,362) | - |
| Issuance of convertible preferred shares | | 747,791 | - |
| Net cash provided by financing activities | | <u>15,878,811</u> | <u>13,806,527</u> |
| Effect of exchange rate fluctuations on cash and cash equivalents held | | <u>29,428</u> | <u>(30,640)</u> |
| Increase in cash and cash equivalents | | 399,418 | 1,943,106 |
| Cash and cash equivalents at beginning of year | 44 | <u>8,179,756</u> | <u>6,236,650</u> |
| Cash and cash equivalents at end of year | 44 | <u>₩ 8,579,174</u> | <u>8,179,756</u> |

See accompanying notes to the consolidated financial statements.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

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, 2019 and 2018 are as follows:

| Investor | Investee(*1) | Location | Date of financial information | Ownership (%) | |
|-----------------------------------|--|------------|-------------------------------|---------------|-------|
| | | | | 2019 | 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.(*2) | " | " | 100.0 | 100.0 |
| " | Shinhan Life Insurance Co., Ltd. | " | " | 100.0 | 100.0 |
| " | Orange Life Insurance Co., Ltd.(*3) | " | " | 59.2 | - |
| " | Shinhan Capital Co., Ltd. | " | " | 100.0 | 100.0 |
| " | Jeju Bank(*4) | " | " | 75.3 | 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 | " | " | 100.0 | 100.0 |
| " | Shinhan Savings Bank | " | " | 100.0 | 100.0 |
| " | Asia Trust Co., Ltd.(*5) | " | " | 60.0 | - |
| " | Shinhan AITAS Co., Ltd. | " | " | 99.8 | 99.8 |
| " | Shinhan REITs Management Co., Ltd. | " | " | 100.0 | 100.0 |
| " | Shinhan AI Co., Ltd.(*6) | " | " | 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 | Cambodia | " | 97.5 | 97.5 |
| " | Shinhan Bank Kazakhstan Limited | Kazakhstan | " | 100.0 | 100.0 |
| " | Shinhan Bank Canada | Canada | " | 100.0 | 100.0 |
| " | 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 | " | 99.9 | 99.9 |
| " | 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 Vietnam Finance(*7) | Vietnam | " | 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 FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
December 31, 2019 and 2018

1. Reporting entity (continued)

| Investor | Investee(*1) | Location | Date of financial information | Ownership (%) | |
|--|--|-----------|-------------------------------|---------------|-------|
| | | | | 2019 | 2018 |
| 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 | 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 | 100.0 |

(*1) Trusts, beneficiary certificates, securitization special limited liability companies, associates and private equity investment specialists that are not actually operating their own business are excluded.

(*2) The controlling company has participated in issuing additional shares of Shinhan Investment Corp. amounting to ₩660 billion for the year ended December 31, 2019.

(*3) The Group entered into a share purchase agreement to acquire a 59.15% stake in Orange Life Insurance Co., Ltd. for the years ended December 31, 2018, and the effective stake increased to 60.24% due to the acquisition of treasury shares by Orange Life Insurance Co. Ltd. for the years ended December 31, 2019.

(*4) The Group purchased 1,100,000 shares of Jeju Bank from the Group's largest shareholder, the National Pension Service for the year ended December 31, 2019.

(*5) The Group acquired 60.00% stake in Asia Trust Co., Ltd. for the year ended December 31, 2019.

(*6) Shinhan AI Co., Ltd. is a subsidiary newly invested for the year ended December 31, 2019. The controlling company has participated in issuing additional shares of Shinhan AI Co., Ltd. shares amounting to ₩40 billion.

(*7) The Group acquired 100% stake in Vietnam-based Prudential Vietnam Finance Co., Ltd. for the year ended December 31, 2019 and changed the name of corporate to Shinhan Vietnam Finance Co., Ltd.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
December 31, 2019 and 2018

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 196 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. | 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 111 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 ABCP credit contribution (purchase agreements) of ₩3,901,421 million for the purpose of credit enhancement of structured companies.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

2. Basis of preparation

The consolidated financial statements have been prepared in accordance with Korean International Financial Reporting Standards (“K-IFRS”), as prescribed the Act on External Audits of Stock Companies in the Republic of Korea.

The consolidated financial statements were authorized for issue by the Board of Directors on February 5, 2020, which will be submitted for approval to the stockholder’s meeting to be held on March 26, 2020.

(a) 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 measured at fair value
- financial instruments at fair value through profit or loss measured at fair value
- other comprehensive income at fair values measured at fair value
- liabilities for cash-settled share-based payment arrangements 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 recognized in profit or loss
- liabilities for defined benefit plans recognized at the net of the total present value of defined benefit obligations less the fair value of plan assets

(b) 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.

(c) Use of estimates and judgements

The preparation of the consolidated financial statements in conformity with K-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.

In preparing these consolidated financial statements, the significant judgments made by management in applying the Group’s accounting policies and the key sources of estimation uncertainty are the same as those that applied to the consolidated financial statements as of and for the year ended December 31, 2018 except for the main sources of critical judgments and estimated uncertainties related to the adoption of K-IFRS No. 1116 ‘Leases’ described in Note 3.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
December 31, 2019 and 2018

2. Basis of preparation (continued)

(d) Change in accounting policy

Except for the following new standard, which has been applied from January 1, 2019, 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. There are other new standards applied from January 1, 2019, which does not have a significant impact to the Group's financial statements.

i) K-IFRS No.1116, 'Leases'

K-IFRS No.1116, published on May 22, 2017, replaces existing standards including K-IFRS No.1017, 'Leases', K-IFRS No.2104, 'Determining whether an Arrangement contains a Lease', K-IFRS No.2015, 'Operating Leases - Incentives' and K-IFRS No.2027, 'Evaluating the Substance of Transactions Involving the Legal Form of a Lease'.

The Group has applied K-IFRS No.1116 from the year beginning on January 1, 2019, the date of initial application.

At the commencement date of the lease, the Group assesses whether the contract is, or contains, a lease, and assessed whether the contract was, or contained, a lease in accordance with K-IFRS No.1116 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 (hereinafter called 'non-lease components') of the contract.

A lessee shall recognize a lease right-of-use asset, which indicates an asset that represents a lessee's right to use an underlying asset (leased asset) for the lease term, and a lease liability, which indicates 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, the Group used the following practical expedients when applying K-IFRS No.1116 to leases previously classified as operating leases applying K-IFRS No.1017.

- Elects not to apply the requirements to recognize lease right-of-use assets and lease liabilities to leases for which the lease term ends within 12 months of the date of initial application.
- Excludes initial direct costs from the measurements of the lease right-of-use assets at the date of initial application.
- If the contract contains an option to extend or terminate the lease, hindsight is used to determine the lease term

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.

The accounting treatment as a lessor did not change significantly from the one under K-IFRS No.1017.

The accumulated effect on retained earnings from initial application of K-IFRS No.1116 was zero, and the comparative financial information presented has applied K-IFRS No.1017 and the related Interpretations as previously reported and has not been retrospectively restated. The transition effects arising from changes in accounting policies are explained in Note 48.

On December 16, 2019, the IFRS Interpretations Committee published the agenda decision on 'Lease term and useful life of leasehold improvements' that the entity should consider all economic penalties for the termination of the lease in the determination of the enforceable period. The Group is analyzing the impact of changes in accounting policies of determination of the enforceable period on the consolidated financial statements, and plans to reflect the impact on the consolidated financial statements when the analysis is completed.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
December 31, 2019 and 2018

2. Basis of preparation (continued)

(d) Change in accounting policy (continued)

ii) K-IFRS No.1109, 'Financial Instruments', K-IFRS No.1107, 'Financial Instruments: Disclosures' Revision

The interest rate index reform has added an exception that allows hedge accounting to be applied while uncertainty exists. In a hedging relationship, the assume that the interest rate index that is the underlying variable of cash flows does not change to the interest rate index reform when reviewing the probability of occurrence and the prospective assessment of the effectiveness of the hedge. For hedges of non-contractually specified interest rate risk components, the requirement that the hedged risk should be separately identifiable applies only at the inception of the hedging relationship. Through the interest rate index reform, this application of exception is ended when the timing and amount of cash flows based on the interest rate index will no longer appear, or the hedging relationship is discontinued. These amendments take effect on 1 January 2020 but have been applied early as early entry is allowed. A significant interest rate indicator for hedging relationships is LIBOR and CD rates. The subject affected by this amendment is derivatives of Note 10.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

3. Significant accounting policies

Except for the new standards and the amendment to the following standard, which are applied from January 1, 2019, 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, 2019 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 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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
December 31, 2019 and 2018

3. Significant accounting policies (continued)

(b) Basis of consolidation (continued)

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 K-IFRS No.1012, 'Income Taxes'
- Employee benefit arrangements are recognized and measured in accordance with K-IFRS No.1019, '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 K-IFRS No.1102, 'Share-based Payment'
- Non-current assets held for sale are measured at fair value less costs to sell in accordance with K-IFRS No.1105, 'Non-current Assets Held for Sale and Discontinued Operations'

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 K-IFRS No.1032 and 1109, are expensed in the periods in which the costs are incurred and the services are received.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
December 31, 2019 and 2018

3. Significant accounting policies (continued)

(c) Business combinations (continued)

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 and joint ventures

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.

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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
December 31, 2019 and 2018

3. Significant accounting policies (continued)

(f) Non-derivative financial assets

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.

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.

① 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.

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Notes to the Consolidated Financial Statements
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3. Significant accounting policies (continued)

(f) Non-derivative financial assets (continued)

② 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 allowance for credit loss' in the consolidated statement of comprehensive income, respectively.

③ 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 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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
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3. Significant accounting policies (continued)

(g) Derivative financial instruments

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.

① 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.

② 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.

③ 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 K-IFRS No. 1021, "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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
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3. Significant accounting policies (continued)

(g) Derivative financial instruments (continued)

ii) 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.

iii) 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.

(h) Impairment: Financial assets and contract assets

The Group recognizes allowance for credit loss 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 allowance for credit loss for the financial assets are measured at the 12-month expected credit losses (“ECL”) or the lifetime ECL, depending on the stage.

| | Category | Allowance for credit loss |
|---------|--|--|
| 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 an allowance for credit loss 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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
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3. Significant accounting policies (continued)

(h) Impairment: Financial assets and contract assets (continued)

i) 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.

ii) 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 credit loss account and are written off if the financial assets were not recoverable. The allowance for credit loss is increased when the written-off loan receivables are subsequently collected and changes in the allowance for credit loss are recognized in profit or loss.

iii) 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 allowance for credit loss are recognized in other comprehensive income. In the case of disposal and redemption of other comprehensive income - fair value, the allowance for credit loss is reclassified from other comprehensive income to profit or loss and recognized in profit or loss.

(i) Property and equipment

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 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
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3. Significant accounting policies (continued)

(i) Property and equipment (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.

(j) 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 | Useful lives |
|---|--|
| Software and capitalized development cost | 5 years |
| Other intangible assets | 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.

(k) 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 |

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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
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3. Significant accounting policies (continued)

(I) Leased assets - policy applicable from January 1, 2019

i) Accounting treatment as the lessee

The Group leases various tangible assets, such as real estate and vehicles, and the each lease contract is negotiated individually and includes a variety of terms and conditions. There are no other restrictions imposed by the lease contracts, but the lease assets cannot be provided as collaterals for borrowings.

At the commencement date of the lease, the Group recognizes the right-of-use assets and the lease liabilities. Each lease payment is allocated to payment for the principal portion of the lease liability and financial costs. The Group recognizes in profit or loss the amount calculated to produce a constant periodic rate of interest on the lease liability balance for each period as financial costs. Right-of-use assets are depreciated using a straight-line method from the commencement date over the lease term.

Lease liabilities are measured at the present value of the lease payments that are not paid at the commencement date of the lease, and the lease payments included in the measurement of the liabilities consist of the following payments:

- Fixed payments (including in-substance fixed payments, less any lease incentives receivable)
- Variable lease payments depending on the index or rate
- Amounts expected to be paid by the lessee under the residual value guarantee
- The exercise price of a purchase option if the lessee is reasonably certain to exercise that option
- Extended Lease payments in an optional renewal period if the lessee is reasonably certain to that they will exercise the extension option
- Payments of penalties for terminating the lease, if the lease term reflects the lessee exercising an option to terminate the lease

If the interest rate implicit in the lease is readily determined, the lease payments are discounted by the rate; if the rate is not readily determined, the lessee's incremental borrowing rate is used.

The cost of the right-of-use assets comprise:

- The amount of the initial measurement of the lease liability
- Any lease payments made at or before the commencement date (less any lease incentives received)
- Any initial direct costs incurred by the lessee
- An estimate of costs to be incurred by the lessee in dismantling and removing the underlying asset, restoring the site on which it is located or restoring the underlying asset to the condition required by the terms and conditions of the lease

Lease payments related to short-term leases or low-value assets are recognized as current expenses over the lease term using the straight-line method. A short-term lease is a lease that has a lease term of 12 months or less, and the low-value assets lease is a lease of which the underlying asset value is not more than ₩6 million.

Extension and termination options are included in a number of real estate lease contracts of the Group. In determining the lease term, management considers all relevant facts and circumstances that create an economic incentive not to exercise the options. The periods covered by, a) an option to extend the lease if the lessee is reasonably certain to exercise that option, or b) an option to terminate the lease if the lessee is reasonably certain not to exercise that option, is included when determining the lease term. The Group reassesses whether the Group is reasonably certain to exercise the extension option, or not to exercise a termination option, upon the occurrence of either a significant event or a significant change in circumstances that is within the control of the lessee, and affects whether the lessee is reasonably certain to exercise an option not previously included in its determination of the lease term, or not to exercise an option previously included in its determination of the lease term.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
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3. Significant accounting policies (continued)

(l) Leased assets - policy applicable from January 1, 2019 (continued)

ii) Accounting treatment as the lessor

The Group leases out to lessees various tangible assets, including vehicles under operating and finance lease contracts, and the each lease contract is negotiated individually and includes a variety of terms and conditions. The risk management method for all rights held by the Group in the underlying assets includes repurchase agreements, residual value guarantees, etc.

For finance leases, the Group recognizes them as a receivable at an amount equal to the net investment in the lease, and the difference from the carrying amount of the leasing asset as of the commencement date is recognized as profit or loss from disposal of the lease asset. In addition, interest income is recognized by applying the effective interest method for the amount of the Group's net investment in finance leases. Lease-related direct costs are included in the initial recognition of financial lease receivables and are accounted for in a way that reduces the revenue for the lease term.

For operating leases, the Group recognizes the lease payments as income on straight-line basis, and adds the lease initial direct costs incurred during negotiation and contract phase of the operating lease to the carrying amount of the underlying asset. In addition, the depreciation policy of operating lease assets is consistent with the Group's depreciation policy of other similar assets.

(m) Leased assets - policy applicable before January 1, 2019

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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
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December 31, 2019 and 2018

3. Significant accounting policies (continued)

(m) Leased assets - policy applicable before January 1, 2019 (continued)

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.

(n) 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 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 K-IFRS No. 1036 '*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).

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
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3. Significant accounting policies (continued)

(o) 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.

(p) Non-derivative 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 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.

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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
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3. Significant accounting policies (continued)

(p) Non-derivative financial liabilities (continued)

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).

(q) 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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
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3. Significant accounting policies (continued)

(r) 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.

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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
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3. Significant accounting policies (continued)

(s) 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 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.

iv) 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.

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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
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3. Significant accounting policies (continued)

(s) Employee benefit (continued)

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.

(t) 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.

(u) 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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
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3. Significant accounting policies (continued)

(v) Financial guarantee contract

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 K-IFRS No.1109, 'Financial Instruments'
- The amount initially recognized less, when appropriate, the cumulative amount of income recognized in accordance with the principles of K-IFRS No.1115, 'Revenue from Contracts with Customers'

(w) Insurance contracts

i) 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.

i-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.

i-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.

i-3) Guarantee reserves

The total amount of reserve for variable minimum guarantee (①) and reserve for general account guarantee (②) is provided as guarantee reserve.

① 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

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
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3. Significant accounting policies (continued)

(w) Insurance contracts (continued)

② 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

i-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.

i-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.

① 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.

② 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.

③ 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.

④ 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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
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3. Significant accounting policies (continued)

(w) Insurance contracts (continued)

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

i-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.

i-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.

ii) 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.

iii) 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.

iv) 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.

v) 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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
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3. Significant accounting policies (continued)

(x) Recognition of revenues and expenses

Other than revenues under the scope of K-IFRS No.1017, 'Leases', K-IFRS No.1028, 'Investments in Associates and Joint Ventures', K-IFRS No.1109, 'Financial Instruments', K-IFRS No.1110, 'Consolidated Financial Statements', and K-IFRS No.1111, 'Joint Arrangements', the Group's revenues are recognized using five-step revenue recognition model as follows: ① 'Identifying the contract' → ② 'Identifying performance obligations' → ③ 'Determining the transaction price' → ④ 'Allocating the transaction price to performance obligations' → ⑤ '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 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.

① 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.

② 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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
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3. Significant accounting policies (continued)

(x) Recognition of revenues and expenses (continued)

③ 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.

(y) Revenue from Contracts with Customers

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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
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3. Significant accounting policies (continued)

(z) 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 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.

Because of the tax policies taken by the Group, tax uncertainties arise from the complexity of transactions and differences in tax law analysis. Also, it arises from a tax refund suit, tax investigation, or a refund suit against the tax authorities' tax amount.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
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3. Significant accounting policies (continued)

(z) Income tax (continued)

ii) Deferred tax (continued)

Because of the tax policies taken by the Group, tax uncertainties arise from the complexity of transactions and differences in tax law analysis. Also, it arises from a tax refund suit, tax investigation, or a refund suit against the tax authorities' tax amount. The Group paid the tax amount by the tax authorities in accordance with K-IFRS No. 2123. However, it will be recognized as the corporate tax assets if there is a high possibility of a refund in the future. In addition, the amount expected to be paid as a result of the tax investigation is recognized as the tax liability.

(aa) 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.

(ab) 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.

(ac) Issued/Amended Accounting Standards that are not applied

The following issued/amended standards have been published but have not yet been effective during the fiscal year beginning January 1, 2019. Hence, the Group did not apply the following issued/amended standards in preparing financial statements:

i) K-IFRS No. 1001 'Presentation of Financial Statements' and K-IFRS No. 1008 'Accounting Policies, Changes in Accounting Estimates and Errors' amended

The definition of materiality has been clarified, and the feature of information users is taken into account when determining the information to be disclosed and the effects of immaterial information as well as omission or misstatement of material information when determining materiality. This amendment is effective for annual periods beginning on or after January 1, 2020. The Group expects that the amendment will not have a material impact on its financial statements.

ii) K-IFRS No. 1103 'Business Combination'

The amended definition of business requires that the inputs that have the ability to create outputs and substantial process to be included in the assessment of acquired businesses and the collection of assembled assets, excluding economic benefits from cost reduction. In addition, if the fair value of most of the total assets acquired is concentrated in a single identifiable asset or a set of assets, an optional concentration test has been added that determines that the acquired activities and sets of assets are not a business but assets or a set of assets. This amendment is effective for annual periods beginning on or after January 1, 2020. The Group expects that the amendment will not have a material impact on its financial statements.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
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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.

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.

Shinhan Financial Group has a hierarchical limit system to manage the risks of the Group to an appropriate level. The Group Risk Management Committee sets the risk limits that can be assumed by the Group and its subsidiaries, while the Risk Management Committee and the Committee of each subsidiary set and manages detailed risk limits such as risk, department, desk and product types.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
December 31, 2019 and 2018

4. Financial risk management (continued)

(a) Overview (continued)

ii) Risk management organization(continued)

① Group Risk Management Committee

The Group establish the risk management system for the Group and each of its subsidiaries, and comprehensively manage group risk-related matters such as establishing risk policies, limits, and approvals. The Committee consists of directors of the Group

The resolution of the Committee is as follows:

- Establish risk management basic policy in line with management strategy
- Determine the level of risk that can be assumed by the Group and each subsidiary
- Appropriate investment limit or loss allowance limit
- Enacted and revised the Group Risk Management Regulations and the Group Risk Council Regulations
- Matters concerning risk management organization structure and division of duties
- Matters concerning the operation of the risk management system;
- Matters concerning the establishment of various limits and approval of limits
- Decisions on approval of the FSS's internal rating law for non-retail and retail credit rating systems
- Matters concerning risk disclosure policy
- Analysis of crisis situation, related capital management plan and financing plan
- Matters deemed necessary by the board of directors
- Materials required by external regulations such as the Financial Services Commission and other regulations and guidelines
- Matters deemed necessary by the Chairman

The resolution of the Group Risk Management Committee is reported to the Board of Directors.

② Group Risk Management Council

In order to maintain the Group's risk policy and strategy consistently, the Group decides what is necessary to discuss the risks of the Group and to carry out the policies set by the Group Risk Management Committee. The members are chaired by the group's risk management officer and consist of the risk management officers of major subsidiaries. However, if the subsidiary's risk management officer is not an executive, the chief executive officer of risk management may attend.

iii) Group Risk Management System

① Management of the risk capital

Risk capital refers to the capital required to compensate for the potential loss (risk) if it is actually realized. Risk capital management refers to the management of the risk assets considering its risk appetite, which is a datum point on the level of risk burden compared to available capital, so as to maintain the risk capital at an appropriate level. The Group and subsidiaries establish and operate a risk planning process to reflect the risk plan in advance when establishing financial and business plans for risk capital management, and establish a risk limit management system to control risk to an appropriate level.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
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4. Financial risk management (continued)

(a) Overview (continued)

iii) Group Risk Management System(continued)

② Risk Monitoring

In order to proactively manage risks by periodically identifying risk factors that can affect the group's business environment, the Group has established a multi-dimensional risk monitoring system. Each subsidiary is required to report to the Group on key issues that affect risk management at the group level. The Group prepares weekly, monthly and occasional monitoring reports to report to Group management including the CRO.

In addition, the Risk Dash Board is operated to derive abnormal symptoms through three-dimensional monitoring of major portfolios, increased risks, and external environmental changes (news) of assets for each subsidiary. If necessary, the Group take preemptive risk management to establish and implement countermeasures.

③ Risk Reviewing

When conducting new product / new business and major policy changes, risk factors are reviewed by using a pre-defined checklist to prevent indiscriminate promotion of business that is not easy to judge risk and support rational decision making. The subsidiary's risk management department conducts a preliminary review and post-monitoring process on products, services, and projects to be pursued in the business division. After consultation, the Group conduct risk reviews.

④ 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 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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
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4. Financial risk management (continued)

(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 allowance for credit loss. 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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
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4. Financial risk management (continued)

(b) Credit risk (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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
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4. Financial risk management (continued)

(b) Credit risk (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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
December 31, 2019 and 2018

4. Financial risk management (continued)

(b) Credit risk (continued)

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 |
|---|--|--|
| 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 |
| 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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
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4. Financial risk management (continued)

(b) Credit risk (continued)

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.

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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
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4. Financial risk management (continued)

(b) Credit risk (continued)

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.

| <u>Key macroeconomic variables</u> | <u>Correlation with credit risk</u> |
|------------------------------------|-------------------------------------|
| Economic growth | Negative |
| Consumer price index | Positive |
| Benchmark rate | Positive |
| 3-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.

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Notes to the Consolidated Financial Statements
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4. Financial risk management (continued)

(b) Credit risk (continued)

i-5) Measurement of expected credit losses

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 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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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(In millions of won)

4. Financial risk management (continued)

(b) Credit risk (continued)

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 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, 2019 and December 31, 2018 are as follows:

| | 2019 | 2018 |
|---|----------------------|--------------------|
| Due from banks and loans at amortized cost(*1)(*2): | | |
| Banks | ₩ 12,950,561 | 17,935,816 |
| Retail | 152,840,826 | 136,499,558 |
| Government | 19,461,567 | 6,517,215 |
| Corporations | 140,718,619 | 131,795,992 |
| Card receivable | 23,114,264 | 21,592,287 |
| | <u>349,085,837</u> | <u>314,340,868</u> |
| Deposits and loans at FVTPL(*1)(*2) | | |
| Bank | 897,525 | 890,660 |
| Corporations | 2,154,821 | 1,189,190 |
| | <u>3,052,346</u> | <u>2,079,850</u> |
| Securities measured at FVTPL(*3) | 48,512,857 | 40,289,846 |
| Securities measured at fair value - OCI | 58,573,094 | 37,677,646 |
| Securities measured at amortized cost | 45,582,065 | 28,478,136 |
| Derivative assets | 2,829,274 | 1,793,613 |
| Other financial assets(*1)(*4) | 17,477,778 | 16,837,141 |
| Financial guarantee contracts | 4,698,558 | 4,413,874 |
| Loan commitments and other credit liabilities | 177,660,547 | 165,399,937 |
| | <u>₩ 707,472,356</u> | <u>611,310,911</u> |

(*1) The maximum exposure amounts for due from banks, loans and other financial assets at amortized cost are recorded as net of allowances.

(*2) Due from banks and loans were classified as similar credit risk group when calculating the BIS ratio under new Basel Capital Accord (Basel III).

(*3) Financial asset at fair value through profit or loss comprise debt securities at fair value through profit of loss, gold deposits.

(*4) 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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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(In millions of won)

4. Financial risk management (continued)

(b) Credit risk (continued)

iii) The maximum amount of exposure to credit risk by type of collateral of held financial instruments as of December, 2019 and 2018 is as follows:

| Classification | 2019 | | | |
|------------------------|-----------------------------------|--------------------------------|------------|-------------|
| | 12 months Expected credit loss | Life time expected credit loss | | Total |
| | | Not recognized | Recognized | |
| Guarantee | ₩ 12,232,197 | 3,756,006 | 64,386 | 16,052,589 |
| Deposits and Savings | 1,058,353 | 266,407 | 2,437 | 1,327,197 |
| Property and equipment | 1,021,002 | 307,502 | 12,840 | 1,341,344 |
| Real estate | 128,098,318 | 14,932,637 | 370,361 | 143,401,316 |
| Securities | 3,340,337 | 137,105 | - | 3,477,442 |
| Other | 5,035,192 | 4,437 | 364 | 5,039,993 |
| Total | ₩ 150,785,399 | 19,404,094 | 450,388 | 170,639,881 |

| Classification | 2018 | | | |
|------------------------|-----------------------------------|--------------------------------|------------|-------------|
| | 12 months Expected credit loss | Life time expected credit loss | | Total |
| | | 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 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

(b) Credit risk (continued)

iv) Impairment information by credit risk of financial assets

- Allowance for credit loss of financial assets as of December 31, 2019 and 2018 are as follows:

| | 2019 | | | | | | | | Mitigation of credit risk due to collateral |
|--|--------------------------------|-------------|--------------------------------|-------------|-----------|-------------|-------------|-------------|--|
| | 12 months expected credit loss | | Life time expected credit loss | | | Total | Allowances | Net | |
| | Grade 1(*1) | Grade 2(*1) | Grade 1(*1) | Grade 2(*1) | Impaired | | | | |
| Due from banks and loans at amortized cost: | | | | | | | | | |
| Banks | ₩ 11,703,863 | 1,179,294 | 77,675 | 1,804 | - | 12,962,636 | (12,075) | 12,950,561 | 57,087 |
| Retail | 136,124,712 | 7,443,675 | 5,694,210 | 3,608,216 | 476,897 | 153,347,710 | (506,884) | 152,840,826 | 87,826,564 |
| Government Corporations | 19,274,854 | 111,987 | 80,648 | - | - | 19,467,489 | (5,922) | 19,461,567 | - |
| Card receivable | 85,202,285 | 32,112,103 | 10,219,343 | 13,546,622 | 956,772 | 142,037,125 | (1,318,506) | 140,718,619 | 77,732,792 |
| | 17,161,184 | 2,249,276 | 1,879,073 | 2,233,942 | 444,311 | 23,967,786 | (853,522) | 23,114,264 | 8,728 |
| | 269,466,898 | 43,096,335 | 17,950,949 | 19,390,584 | 1,877,980 | 351,782,746 | (2,696,909) | 349,085,837 | 165,625,171 |
| Securities at fair value through other comprehensive income(*2) | 49,276,299 | 9,057,701 | - | 239,094 | - | 58,573,094 | - | 58,573,094 | - |
| Securities at amortized cost | 44,296,882 | 1,271,681 | 23,272 | - | - | 45,591,835 | (9,770) | 45,582,065 | - |
| | ₩ 363,040,079 | 53,425,717 | 17,974,221 | 19,629,678 | 1,877,980 | 455,947,675 | (2,706,679) | 453,240,996 | 165,625,171 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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December 31, 2019 and 2018

(In millions of won)

4. Financial risk management (continued)

(b) Credit risk (continued)

iv) Impairment information by credit risk of financial assets

- Allowance for credit loss of financial assets as of December 31, 2019 and 2018 are as follows:

| | | 2018 | | | | | | | | |
|---|---|--------------------------------|-------------------|--------------------------------|-------------------|------------------|--------------------|--------------------|---|--------------------|
| | | 12 months expected credit loss | | Life time expected credit loss | | | | | Mitigation of credit risk due to collateral | |
| | | Grade 1(*1) | Grade 2(*1) | Grade 1(*1) | Grade 2(*1) | Impaired | Total | Allowances | Net | |
| Due from banks and loans at amortized cost: | | | | | | | | | | |
| Banks | ₩ | 16,873,064 | 980,673 | 94,866 | 11,493 | - | 17,960,096 | (24,280) | 17,935,816 | 55,008 |
| Retail | | 122,318,451 | 6,122,202 | 4,991,709 | 3,103,779 | 402,975 | 136,939,116 | (439,558) | 136,499,558 | 81,216,489 |
| Government Corporations | | 6,474,219 | 2,399 | 45,871 | - | - | 6,522,489 | (5,274) | 6,517,215 | 17,050 |
| Card receivable | | 82,476,923 | 28,445,914 | 9,800,260 | 11,659,375 | 882,394 | 133,264,866 | (1,468,874) | 131,795,992 | 74,069,579 |
| | | 16,129,536 | 2,022,525 | 1,791,147 | 2,039,390 | 411,595 | 22,394,193 | (801,906) | 21,592,287 | 7,599 |
| | | <u>244,272,193</u> | <u>37,573,713</u> | <u>16,723,853</u> | <u>16,814,037</u> | <u>1,696,964</u> | <u>317,080,760</u> | <u>(2,739,892)</u> | <u>314,340,868</u> | <u>155,365,725</u> |
| Securities at fair value through other comprehensive income(*2) | | 30,705,879 | 6,865,937 | - | 105,830 | - | 37,677,646 | - | 37,677,646 | - |
| Securities at amortized cost | | 27,661,749 | 803,174 | 22,474 | - | - | 28,487,397 | (9,261) | 28,478,136 | - |
| | ₩ | <u>302,639,821</u> | <u>45,242,824</u> | <u>16,746,327</u> | <u>16,919,867</u> | <u>1,696,964</u> | <u>383,245,803</u> | <u>(2,749,153)</u> | <u>380,496,650</u> | <u>155,365,725</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
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December 31, 2019 and 2018

4. Financial risk management (continued)

(b) Credit risk (continued)

iv) Impairment information by credit risk of financial assets (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 individual card holders, score of below 7 in Shinhan Card's internal behavior scoring system |
| | For corporate cardholders, same as corporate loans | For corporate cardholders, same as corporate loans |

(*2) As of December 31, 2019 and 2018, allowance for credit loss for securities at fair value through other comprehensive income amounted to ₩28,236 million and ₩26,084 million, respectively.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

4. Financial risk management (continued)

(b) Credit risk (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, 2019 and 2018 are as follows:

| | | 2019 | | | |
|---------------------------------------|---|--------------------|-------------------|---------------|--------------------|
| | | Grade 1(*1) | Grade 2(*1) | Impaired | Total |
| Financial guarantee: | | | | | |
| 12 months expected credit loss | ₩ | 2,805,417 | 1,495,091 | - | 4,300,508 |
| Life time expected credit loss | | 248,544 | 148,696 | - | 397,240 |
| Impaired | | - | - | 810 | 810 |
| | | <u>3,053,961</u> | <u>1,643,787</u> | <u>810</u> | <u>4,698,558</u> |
| Loan commitment and other credit line | | | | | |
| 12 months expected credit loss | | 146,010,944 | 21,044,977 | - | 167,055,921 |
| Life time expected credit loss | | 7,850,945 | 2,730,143 | - | 10,581,088 |
| Impaired | | - | - | 23,538 | 23,538 |
| | | <u>153,861,889</u> | <u>23,775,120</u> | <u>23,538</u> | <u>177,660,547</u> |
| | ₩ | <u>156,915,850</u> | <u>25,418,907</u> | <u>24,348</u> | <u>182,359,105</u> |
| | | 2018 | | | |
| | | Grade 1(*1) | Grade 2(*1) | Impaired | Total |
| Financial guarantee: | | | | | |
| 12 months 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 |
| | | <u>2,283,931</u> | <u>2,128,154</u> | <u>1,789</u> | <u>4,413,874</u> |
| Loan commitment and other credit line | | | | | |
| 12 months 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 |
| | | <u>144,556,688</u> | <u>20,832,710</u> | <u>10,539</u> | <u>165,399,937</u> |
| | ₩ | <u>146,840,619</u> | <u>22,960,864</u> | <u>12,328</u> | <u>169,813,811</u> |

(*1) The distinction between prime grade and normal grade is as follows:

| Type of Borrower | Corporations and banks |
|------------------|---|
| Grade: 1. Prime | Internal credit rating of BBB+ or above |
| Grade: 2. Normal | Internal credit rating of below BBB+ |

vi) Credit risk exposures per credit quality of derivative assets

Credit quality of derivative assets as of December 31, 2019 and 2018 are as follows:

| | | 2019 | 2018 |
|---------|---|------------------|------------------|
| Grade 1 | ₩ | 2,377,548 | 1,687,005 |
| Grade 2 | | 451,726 | 106,608 |
| | ₩ | <u>2,829,274</u> | <u>1,793,613</u> |

(*) Credit quality of derivative assets was classified based on the internal credit ratings.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

(b) Credit risk (continued)

vii) Concentration by geographic location

An analysis of concentration by geographic location for financial instrument, net of allowance, as of December 31, 2019 and 2018 are as follows:

| | 2019 | | | | | | | | |
|--|----------------------|-------------------|----------------|------------------|----------------|------------------|------------------|-------------------|--------------------|
| | Korea | USA | England | Japan | Germany | Vietnam | China | Other | Total |
| Due from banks and loans at amortized cost | | | | | | | | | |
| Banks | ₩ 5,124,738 | 1,263,568 | 423,788 | 289,233 | 203,166 | 1,068,822 | 2,816,320 | 1,760,926 | 12,950,561 |
| Retail | 144,700,885 | 371,602 | 5,444 | 3,888,964 | 1,548 | 1,612,761 | 1,211,857 | 1,047,765 | 152,840,826 |
| Government Corporations | 16,805,176 | 529,096 | - | 1,080,381 | - | 140,960 | 445,526 | 460,428 | 19,461,567 |
| Card | 122,926,428 | 3,116,777 | 187,856 | 3,403,806 | 99,083 | 2,140,573 | 2,758,888 | 6,085,208 | 140,718,619 |
| | 22,916,799 | 9,068 | 321 | 2,233 | 214 | 141,844 | 25,513 | 18,272 | 23,114,264 |
| | <u>312,474,026</u> | <u>5,290,111</u> | <u>617,409</u> | <u>8,664,617</u> | <u>304,011</u> | <u>5,104,960</u> | <u>7,258,104</u> | <u>9,372,599</u> | <u>349,085,837</u> |
| Deposits and loans at FVTPL | | | | | | | | | |
| Bank | 177,713 | 719,812 | - | - | - | - | - | - | 897,525 |
| Corporations | 2,146,949 | - | - | - | - | - | - | 7,872 | 2,154,821 |
| | <u>2,324,662</u> | <u>719,812</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>7,872</u> | <u>3,052,346</u> |
| Securities measured at FVTPL | 45,635,765 | 1,662,249 | 194,591 | 49,067 | 6,346 | 21,625 | 220,837 | 722,377 | 48,512,857 |
| Securities at FVOCI | 53,939,143 | 1,955,627 | 97,710 | 195,165 | 93,769 | 294,095 | 798,068 | 1,199,517 | 58,573,094 |
| Securities at amortized cost | 42,927,646 | 769,884 | - | 163,112 | - | 604,019 | 40,741 | 1,076,663 | 45,582,065 |
| | <u>₩ 457,301,242</u> | <u>10,397,683</u> | <u>909,710</u> | <u>9,071,961</u> | <u>404,126</u> | <u>6,024,699</u> | <u>8,317,750</u> | <u>12,379,028</u> | <u>504,806,199</u> |

(*) The following accounts are the net carrying value less provision for doubtful accounts.

| | 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 |
| | <u>281,363,653</u> | <u>5,287,793</u> | <u>576,568</u> | <u>7,413,290</u> | <u>420,893</u> | <u>4,100,898</u> | <u>7,385,136</u> | <u>7,792,637</u> | <u>314,340,868</u> |
| Deposits and loans at FVTPL | | | | | | | | | |
| Bank | 186,465 | 704,195 | - | - | - | - | - | - | 890,660 |
| Corporations | 1,189,190 | - | - | - | - | - | - | - | 1,189,190 |
| | <u>1,375,655</u> | <u>704,195</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>2,079,850</u> |
| 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 |
| | <u>₩ 382,242,456</u> | <u>9,224,369</u> | <u>761,975</u> | <u>7,707,180</u> | <u>478,817</u> | <u>4,875,259</u> | <u>8,141,055</u> | <u>9,435,235</u> | <u>422,866,346</u> |

(*) The following accounts are the net carrying value less provision for doubtful accounts.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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December 31, 2019 and 2018

(In millions of won)

4. Financial risk management (continued)

(b) Credit risk (continued)

viii) Concentration by industry sector

An analysis of concentration by industry sector of financial instrument, net of allowance, as of December 31, 2019 and 2018 are as follows:

| | 2019 | | | | | | | | Total |
|---|-----------------------|-------------------|----------------------|--------------------------|----------------------|------------------------|--------------------|--------------------|--------------------|
| | Finance and insurance | Manufacturing | Retail and wholesale | Real estate and business | Construction service | Lodging and Restaurant | Other | Retail customers | |
| Due from banks and loans at amortized cost: | | | | | | | | | |
| Banks | ₩ 12,461,379 | - | - | - | - | - | 489,182 | - | 12,950,561 |
| Retail | - | - | - | - | - | - | - | 152,840,826 | 152,840,826 |
| Government Corporations | 19,342,308 | - | - | 2,295 | - | - | 116,964 | - | 19,461,567 |
| Card receivable | 9,456,194 | 44,781,794 | 17,004,407 | 30,029,000 | 3,485,602 | 6,003,383 | 29,958,239 | - | 140,718,619 |
| | 39,003 | 212,863 | 170,873 | 49,000 | 41,664 | 23,397 | 22,427,544 | 149,920 | 23,114,264 |
| | <u>41,298,884</u> | <u>44,994,657</u> | <u>17,175,280</u> | <u>30,080,295</u> | <u>3,527,266</u> | <u>6,026,780</u> | <u>52,991,929</u> | <u>152,990,746</u> | <u>349,085,837</u> |
| Due from banks and loans at FVTPL: | | | | | | | | | |
| Banks | 897,525 | - | - | - | - | - | - | - | 897,525 |
| Corporations | 1,301,066 | 505,198 | 120,636 | 7,872 | 3,500 | 900 | 215,649 | - | 2,154,821 |
| | <u>2,198,591</u> | <u>505,198</u> | <u>120,636</u> | <u>7,872</u> | <u>3,500</u> | <u>900</u> | <u>215,649</u> | <u>-</u> | <u>3,052,346</u> |
| Securities at fair value through profit or loss | 29,826,338 | 2,466,874 | 1,112,688 | 350,720 | 262,183 | 75,152 | 14,418,902 | - | 48,512,857 |
| Securities at fair value through other comprehensive income | 28,673,958 | 3,500,514 | 673,614 | 807,274 | 1,164,947 | 12,889 | 23,739,898 | - | 58,573,094 |
| Securities at amortized cost | 9,930,409 | 49,876 | - | 884,072 | 1,076,086 | - | 33,641,622 | - | 45,582,065 |
| | <u>₩ 111,928,180</u> | <u>51,517,119</u> | <u>19,082,218</u> | <u>32,130,233</u> | <u>6,033,982</u> | <u>6,115,721</u> | <u>125,008,000</u> | <u>152,990,746</u> | <u>504,806,199</u> |

(*) The following accounts are the net carrying value less provision for doubtful accounts.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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December 31, 2019 and 2018

(In millions of won)

4. Financial risk management (continued)

(b) Credit risk (continued)

viii) Concentration by industry sector (continued)

An analysis of concentration by industry sector of financial instrument, net of allowance, as of December 31, 2019 and 2018 are as follows:

| | 2018 | | | | | | | | Total |
|---|-----------------------|-------------------|----------------------|--------------------------|----------------------|------------------------|-------------------|--------------------|--------------------|
| | Finance and insurance | Manufacturing | Retail and wholesale | Real estate and business | Construction service | Lodging and Restaurant | Other | Retail customers | |
| Due from banks and loans at amortized cost: | | | | | | | | | |
| Banks | ₩ 17,579,099 | 2,219 | - | 300 | - | - | 354,198 | - | 17,935,816 |
| Retail | - | - | - | - | - | - | - | 136,499,558 | 136,499,558 |
| Government Corporations | 6,385,776 | - | - | 2,795 | - | - | 128,644 | - | 6,517,215 |
| Card receivable | 8,456,599 | 43,957,565 | 17,420,532 | 27,009,286 | 3,272,406 | 5,610,146 | 26,066,753 | 2,705 | 131,795,992 |
| | 36,343 | 210,324 | 169,070 | 43,236 | 42,209 | 23,506 | 20,968,820 | 98,779 | 21,592,287 |
| | <u>32,457,817</u> | <u>44,170,108</u> | <u>17,589,602</u> | <u>27,055,617</u> | <u>3,314,615</u> | <u>5,633,652</u> | <u>47,518,415</u> | <u>136,601,042</u> | <u>314,340,868</u> |
| Due from banks and loans at FVTPL: | | | | | | | | | |
| Banks | 870,656 | - | - | 20,004 | - | - | - | - | 890,660 |
| Corporations | 554,832 | 213,715 | 209,631 | 2,593 | 1,621 | 900 | 205,898 | - | 1,189,190 |
| | <u>1,425,488</u> | <u>213,715</u> | <u>209,631</u> | <u>22,597</u> | <u>1,621</u> | <u>900</u> | <u>205,898</u> | <u>-</u> | <u>2,079,850</u> |
| Securities at fair value through profit or loss | 25,067,491 | 1,646,132 | 1,185,571 | 342,124 | 208,455 | 60,829 | 11,779,244 | - | 40,289,846 |
| Securities at fair value through other comprehensive income | 22,436,768 | 1,695,624 | 302,789 | 480,979 | 480,585 | - | 12,280,901 | - | 37,677,646 |
| Securities at amortized cost | 6,634,975 | 99,437 | - | 775,580 | 595,334 | - | 20,372,810 | - | 28,478,136 |
| | <u>₩ 88,022,539</u> | <u>47,825,016</u> | <u>19,287,593</u> | <u>28,676,897</u> | <u>4,600,610</u> | <u>5,695,381</u> | <u>92,157,268</u> | <u>136,601,042</u> | <u>422,866,346</u> |

(*) The following accounts are the net carrying value less provision for doubtful accounts.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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(In millions of won)

4. Financial risk management (continued)

(c) Market risk

i) Market risk management from trading positions

i-1) Concept of Market risk

Market risk is defined as the risk of loss of trading account position of financial institutions due to fluctuations in market price, such as interest rates, exchange rates and stock prices, etc. and is divided into general market risks and individual risks. A general market risk refers to a loss from price variability caused by events affecting the market as a whole, such as interest rates, exchange rates and stock prices; and an individual risk refers to a loss from price variability related to individual events of securities issuer, such as bonds and stocks.

i-2) Market risk Management Method

The basic principle of market risk management in the trading sector is to maintain the maximum possible loss due to market risks within a certain level. To that end, the Group sets and operates the VaR limit, investment limit, position limit, sensitivity limit, and loss limit from portfolio to individual desks. These limits are managed daily by the Risk Management Department independent of Operation Department. Trading position refers to securities, foreign exchange position and derivative financial instruments held for the purpose of short-term trading profit. VaR is the representative method for measuring market risk and is a statistical measure of maximum potential loss that can be caused by changes in market conditions. VaR calculates the market risk amount of the standard method by using TRMS, and Shinhan Bank and Shinhan Investment Corp. use own internal model of market risk calculation system.

The Group conducts stress test to supplement risk measurements by statistical method and to manage losses that may arise from rapid changes in the economic environment.

Shinhan Bank measures the market risk of linear products, such as stocks and bonds, as well as non-linear products, such as options by applying historical simulation method of 99% confidence level-based VaR. Trading position data is automatically interfaced into measurement system, and the system conducts VaR measurement and manages the limit. In addition, the Bank sets loss limit, sensitivity limit, investment limit, stress limit, etc. for Trading Department and desks, and monitors daily.

Shinhan Investment measures daily market risk by applying historical simulation VaR method of 99.9% confidence level-based VaR. Historical simulation VaR method does not require assumption on a particular distribution since the method derives scenarios directly from historical market data, and measures non-linear products, such as options, in details. In addition to the VaR limit, the Shinhan Investment sets and manages issuance and transaction limit, stop-loss limit for each department.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

4. Financial risk management (continued)

(c) Market risk (continued)

i) Market risk management from trading positions (continued)

i-2) Managements (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, 2019 and 2018 based on the standard guidelines for risk management promulgated by the Financial Supervisory Service, is as follows:

| | | 2019 | | | |
|-------------------|---|----------------|----------------|----------------|--------------------|
| | | <u>Average</u> | <u>Maximum</u> | <u>Minimum</u> | <u>December 31</u> |
| Interest rate | ₩ | 508,039 | 527,349 | 479,121 | 504,948 |
| Stock price | | 191,019 | 210,589 | 162,595 | 210,589 |
| Foreign exchange | | 143,317 | 151,779 | 138,543 | 139,562 |
| Commodity | | 7,691 | 10,558 | 4,953 | 10,558 |
| Option volatility | | 57,972 | 74,892 | 39,591 | 67,160 |
| | ₩ | <u>908,038</u> | <u>975,167</u> | <u>824,803</u> | <u>932,817</u> |
| | | 2018 | | | |
| | | <u>Average</u> | <u>Maximum</u> | <u>Minimum</u> | <u>December 31</u> |
| 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 |
| | ₩ | <u>810,429</u> | <u>921,373</u> | <u>697,271</u> | <u>799,676</u> |

i-3) Shinhan Bank

The analyses of the ten-day 99% confidence level-based VaR for managing market risk for trading positions of Shinhan Bank as of and for the years ended December 31, 2019 and 2018 are as follows:

| | | 2019 | | | |
|---------------------------|---|----------------|----------------|----------------|--------------------|
| | | <u>Average</u> | <u>Maximum</u> | <u>Minimum</u> | <u>December 31</u> |
| Interest rate | ₩ | 21,208 | 32,430 | 12,709 | 28,313 |
| Stock price | | 18,136 | 49,424 | 8,171 | 15,386 |
| Foreign exchange(*) | | 24,727 | 29,085 | 22,259 | 25,910 |
| Option volatility | | 161 | 325 | 60 | 212 |
| Commodity | | 15 | 104 | - | 10 |
| Portfolio diversification | | | | | (21,879) |
| | ₩ | <u>47,925</u> | <u>81,553</u> | <u>31,482</u> | <u>47,952</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

4. Financial risk management (continued)

(c) Market risk (continued)

i) Market risk management from trading positions (continued)

i-3) Shinhan Bank (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-4) 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 2019, and 2018, based on the standard guidelines for risk management promulgated by the Financial Supervisory Service, are as follows:

| | | 2019 | | | |
|---------------|---|---------|---------|---------|-------------|
| | | Average | Maximum | Minimum | December 31 |
| Interest rate | ₩ | 1,417 | 2,000 | 1,000 | 2,000 |

| | | 2018 | | | |
|---------------|---|---------|---------|---------|-------------|
| | | Average | Maximum | Minimum | December 31 |
| Interest rate | ₩ | 1,257 | 1,972 | 768 | 1,269 |

(*) Foreign subsidiaries are excluded from the calculation.

i-5) 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, 2019 and 2018 are as follows:

| | | 2019 | | | |
|---------------------------|---|---------|---------|---------|-------------|
| | | Average | Maximum | Minimum | December 31 |
| Interest rate | ₩ | 13,725 | 20,857 | 5,671 | 11,946 |
| Stock price | | 31,330 | 74,421 | 15,449 | 25,691 |
| Foreign exchange | | 4,107 | 37,970 | 368 | 4,369 |
| Option volatility | | 9,889 | 31,711 | 2,504 | 9,876 |
| Portfolio diversification | | | | | (15,150) |
| | ₩ | 38,262 | 85,597 | 5,780 | 36,732 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

4. Financial risk management (continued)

(c) Market risk (continued)

i) Market risk management from trading positions (continued)

i-5) Shinhan Investment (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-6) 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, 2019 and 2018 are as follows:

| | | 2019 | | | |
|-------------------|---|---------|---------|---------|-------------|
| | | Average | Maximum | Minimum | December 31 |
| Interest rate | ₩ | 1,853 | 8,856 | 313 | 600 |
| Stock price | | 5,015 | 6,520 | 4,374 | 4,978 |
| Foreign exchange | | 1,581 | 3,434 | 3 | 2,050 |
| Option volatility | | 316 | 632 | 124 | 472 |
| | ₩ | 8,765 | 19,442 | 4,814 | 8,100 |

| | | 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 |

i-6) Orange Life Insurance Co., Ltd.

The analyses of the ten-day 99.9% confidence level-based VaR for managing market risk for trading positions of Orange Life Insurance as of and for the year ended December 31, 2019 are as follows:

| | | 2019 | | | |
|------------------|---|---------|---------|---------|-------------|
| | | Average | Maximum | Minimum | December 31 |
| Foreign exchange | ₩ | 18,578 | 23,614 | 12,577 | 16,710 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

4. Financial risk management (continued)

(c) Market risk (continued)

ii) Interest rate risk management from non-trading positions

ii-1) Principle

Interest rate risk refers to the possibility of a decrease in net interest income or in net asset value that occurs when interest rates fluctuate unfavorably from the Group's financial position. Through the interest rate risk management, changes in net interest income or net asset value arising from interest rate fluctuations are anticipated by early forecasting changes in interest rate risks related to net interest income and net asset value.

ii-2) Managements

Shinhan Financial Group's major financial subsidiaries manage interest rate risks independently by the risk management organization and the treasury department, and have internal regulations on interest rate risk management strategies, procedures, organization, measurement, and major assumptions.

One of the key indicators of managing interest rate risk is the Earnings at Risk (EaR) from an earning perspective and the Value at Risk (VaR) from an economic value perspective. 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. The precision of risk management system differs by each subsidiary. Interest rate VaR and interest rate EaR are measured by internal method or IRRBB (Interest Rate Risk In The Banking Book), and interest rate risk limits are set and monitored based on the interest rate VaR.

The Basel III-based IRRBB measures the interest rate risk more precisely than the existing BIS standard framework by segmenting maturities of interest rates, reflecting customer behaviour models, and diversifying interest rate shocks. The interest rate VaR scenario based IRRBB measures ① parallel up shock ② parallel down shock ③ Steepener shock ④ flattener shock ⑤ short rate up shock ⑥ short rate down shock. By the parallel up shock and parallel down shock, the interest rate VaR scenario measures the scenario value with the largest loss as interest rate risk. Under the existing BIS standard framework, ± 200 bp parallel shock scenario was applied to all currency. However, as the shock width is set differently by currency and period, interest rate risk is measured significantly by the IRRBB. ((KRW) Parallel ± 300 bp, Short Term ± 400 bp, Long Term ± 200 bp, (USD) Parallel ± 200 bp, Short Term ± 300 bp, Long Term ± 150 bp) In the IRRBB method, the existing interest rate VaR and the interest rate EaR are expressed as Δ EVE (Economic Value of Equity) and Δ NII (Net Interest Income), respectively.

Since impacts of each subsidiary on changes of interest rates are differentiate by portfolios, the Group is preparing to respond proactively while monitoring the financial market and regulatory environment, and making efforts to hedge or reduce interest rate risk. In addition, the subsidiaries conduct the crisis analysis on changes in market interest rates and report it to management and the Group.

In particular, 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 FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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(In millions of won)

4. Financial risk management (continued)

(c) Market risk (continued)

ii) Interest rate risk management from non-trading positions (continued):

Non-trading positions for interest rate VaR and EaR as of December 31, 2019 and 2018 are as follows:

ii-3) Shinhan Bank

| | | <u>2019</u> | <u>2018</u> |
|-----------|---|-------------|-------------|
| △EVE (*1) | ₩ | 369,944 | 930,461 |
| △NII (*2) | | 161,385 | 405,501 |

ii-4) Shinhan Card

| | | <u>2019</u> | <u>2018</u> |
|-----------|---|-------------|-------------|
| △EVE (*1) | ₩ | 696,505 | 773,293 |
| △NII (*2) | | 554,499 | 501,272 |

ii-5) Shinhan Investment

| | | <u>2019</u> | <u>2018</u> |
|-----------|---|-------------|-------------|
| △EVE (*1) | ₩ | 77,436 | 82,568 |
| △NII (*2) | | 127,476 | 72,906 |

ii-6) Shinhan Life Insurance

| | | <u>2019</u> | <u>2018</u> |
|-----------|---|-------------|-------------|
| △EVE (*1) | ₩ | 4,831,042 | 5,268,879 |
| △NII (*2) | | 77,000 | 67,638 |

ii-7) Orange Life Insurance Co., Ltd.

| | | <u>2019</u> |
|-----------|---|-------------|
| △EVE (*1) | ₩ | 2,800,603 |
| △NII (*2) | | 46,372 |

(*1) △EVE is the economic value of equity capital that can arise from changes in interest rates that affect the present value of assets, liabilities and off-balance sheet items by using the Basel III standard based IRRBB method.

(*2) △NII is the change in net interest income that can occur over the next year due to changes in interest rates by using the Basel III standard based IRRBB method.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

4. Financial risk management (continued)

(c) Market risk (continued)

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.

Foreign currency denominated assets and liabilities as of December 31, 2019 and 2018 are as follows:

| | 2019 | | | | | |
|---|---------------------|-------------------|------------------|------------------|-------------------|-------------------|
| | USD | JPY | EUR | CNY | Other | Total |
| Assets: | | | | | | |
| Cash and due from banks at amortized cost | ₩ 4,235,225 | 1,532,661 | 354,686 | 1,714,524 | 1,715,443 | 9,552,539 |
| Due from banks at FVTPL | 719,812 | - | - | - | - | 719,812 |
| Loan receivables measured at FVTPL | 479,950 | - | 7,872 | - | - | 487,822 |
| Loan at amortized cost | 18,275,153 | 8,256,756 | 955,836 | 3,350,557 | 7,960,731 | 38,799,033 |
| Securities at FVTPL | 5,391,450 | 32,565 | 303,917 | - | 357,018 | 6,084,950 |
| Derivative assets | 342,120 | 1,403 | 16,922 | 391 | 80,506 | 441,342 |
| Securities at FVOCI | 4,775,714 | 83,713 | 337,573 | 436,236 | 917,335 | 6,550,571 |
| Securities at amortized cost | 1,392,901 | 183,133 | 67,080 | 40,769 | 1,482,574 | 3,166,457 |
| Other financial assets | 3,176,509 | 136,419 | 171,080 | 380,955 | 462,734 | 4,327,697 |
| | ₩ 38,788,834 | 10,226,650 | 2,214,966 | 5,923,432 | 12,976,341 | 70,130,223 |
| Liabilities: | | | | | | |
| Deposits | ₩ 14,658,624 | 9,057,393 | 843,946 | 4,426,507 | 6,906,741 | 35,893,211 |
| Financial liabilities at FVTPL | - | - | - | - | 474,080 | 474,080 |
| Derivative liabilities | 320,176 | 6,466 | 20,833 | 1,163 | 15,564 | 364,202 |
| Borrowings | 8,938,762 | 347,881 | 190,366 | 407,767 | 139,658 | 10,024,434 |
| Debt securities issued | 7,882,293 | 319,041 | 960,890 | - | 1,526,661 | 10,688,885 |
| Financial liabilities designated at FVTPL | 1,444,254 | - | - | - | - | 1,444,254 |
| Other financial liabilities | 4,391,046 | 155,736 | 125,172 | 567,860 | 978,153 | 6,217,967 |
| | ₩ 37,635,155 | 9,886,517 | 2,141,207 | 5,403,297 | 10,040,857 | 65,107,033 |
| Net assets | ₩ 1,153,679 | 340,133 | 73,759 | 520,135 | 2,935,484 | 5,023,190 |
| Off-balance derivative exposure | (1,335,794) | (160,734) | 273,571 | (114,015) | (844,534) | (2,181,506) |
| Net position | ₩ (182,115) | 179,399 | 347,330 | 406,120 | 2,090,950 | 2,841,684 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

4. Financial risk management (continued)

(c) Market risk (continued)

iii) Foreign exchange risk (continued)

Foreign currency denominated assets and liabilities as of December 31, 2019 and 2018 are as follows (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 |
| | ₩ <u>33,670,657</u> | <u>8,473,088</u> | <u>1,692,852</u> | <u>5,942,184</u> | <u>10,177,008</u> | <u>59,955,789</u> |
| 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 | 6,168,615 | 317,125 | 293,708 | - | 1,715,780 | 8,495,228 |
| 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 |
| | ₩ <u>29,819,598</u> | <u>8,172,706</u> | <u>1,429,296</u> | <u>5,536,419</u> | <u>8,134,620</u> | <u>53,092,639</u> |
| Net assets | ₩ 3,851,059 | 300,382 | 263,556 | 405,765 | 2,042,388 | 6,863,150 |
| Off-balance derivative exposure | (2,056,586) | (157,445) | (217,232) | (34,986) | (164,797) | (2,631,046) |
| Net position | ₩ <u>1,794,473</u> | <u>142,937</u> | <u>46,324</u> | <u>370,779</u> | <u>1,877,591</u> | <u>4,232,104</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

4. Financial risk management (continued)

(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”.

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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

4. Financial risk management (continued)

(d) Liquidity risk (continued)

Contractual maturities for financial instruments including cash flows of principal and interest and off balance as of December 31, 2019 and 2018 are as follows:

| | 2019 | | | | | | Total |
|---|-------------------|------------|------------|-------------------|-------------|-------------------|-------------|
| | Less than 1 month | 1~3 months | 3~6 months | 6 months ~ 1 year | 1~5 years | More than 5 years | |
| Non-derivative financial instruments: | | | | | | | |
| Assets: | | | | | | | |
| Cash and due from banks at amortized cost | ₩ 25,543,400 | 1,039,822 | 421,453 | 1,145,323 | 50,070 | 249,503 | 28,449,571 |
| Due from banks at fair value through profit or loss | 130,780 | 150,217 | 594,643 | 21,885 | - | - | 897,525 |
| Loans at fair value through profit or loss | 29,961 | 783,429 | 12,638 | 142,756 | 773,305 | 488,326 | 2,230,415 |
| Loans at amortized cost | 28,857,297 | 36,706,993 | 46,672,732 | 74,931,639 | 103,334,861 | 70,169,035 | 360,672,557 |
| Securities at fair value through profit or loss | 39,736,655 | 1,852,680 | 728,518 | 1,120,791 | 2,716,677 | 3,774,694 | 49,930,015 |
| Securities at fair value through other comprehensive income | 57,317,802 | - | - | 40,145 | 30,195 | 2,111,220 | 59,499,362 |
| Securities at amortized cost | 1,214,108 | 2,015,590 | 1,704,574 | 2,098,374 | 17,491,024 | 32,951,459 | 57,475,129 |
| Other financial assets | 13,291,239 | 122,258 | 122,893 | 562,793 | 249,166 | 3,122,107 | 17,470,456 |
| | ₩ 166,121,242 | 42,670,989 | 50,257,451 | 80,063,706 | 124,645,298 | 112,866,344 | 576,625,030 |
| Liabilities: | | | | | | | |
| Deposits(*2) | ₩ 149,773,324 | 31,415,213 | 38,077,790 | 61,746,589 | 14,972,484 | 3,590,916 | 299,576,316 |
| Financial liabilities at fair value through profit or loss | 1,558,186 | 1,096 | 12,095 | 17,997 | 48,609 | - | 1,637,983 |
| Borrowings | 15,314,322 | 3,690,803 | 3,608,178 | 4,028,183 | 5,244,109 | 3,002,243 | 34,887,838 |
| Debt securities issued | 5,367,601 | 4,370,308 | 4,876,333 | 8,945,916 | 49,804,651 | 6,467,621 | 79,832,430 |
| Financial liabilities designated at fair value through profit or loss | 487,743 | 110,965 | 678,041 | 1,651,198 | 5,414,944 | 1,066,565 | 9,409,456 |
| Other financial liabilities | 23,504,746 | 118,689 | 253,779 | 510,768 | 416,868 | 3,449,392 | 28,254,242 |
| | ₩ 196,005,922 | 39,707,074 | 47,506,216 | 76,900,651 | 75,901,665 | 17,576,737 | 453,598,265 |
| Off balance(*3): | | | | | | | |
| Finance guarantee contracts | ₩ 4,698,558 | - | - | - | - | - | 4,698,558 |
| Loan commitments and other | 178,516,047 | - | - | - | - | - | 178,516,047 |
| | ₩ 183,214,605 | - | - | - | - | - | 183,214,605 |
| Derivatives: | | | | | | | |
| Net and gross settlement of derivatives | ₩ 407,885 | 9,640 | 34,228 | 18,196 | 160,292 | 176,976 | 807,217 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

4. Financial risk management (continued)

(d) Liquidity risk (continued)

Contractual maturities for financial instruments including cash flows of principal and interest and off balance as of December 31, 2019 and 2018 are as follows (continued):

| | 2018 | | | | | | Total |
|---|-------------------|------------|------------|-------------------|-------------|-------------------|-------------|
| | Less than 1 month | 1~3 months | 3~6 months | 6 months ~ 1 year | 1~5 years | More than 5 years | |
| 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(*3): | | | | | | | |
| 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: | | | | | | | |
| Net and gross settlement of derivatives | ₩ (451,926) | (5,741) | (26,570) | (6,552) | (37,532) | (10,656) | (538,977) |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

4. Financial risk management (continued)

(d) Liquidity risk (continued)

(*1) These amounts include cash flows of principal and interest on financial assets and financial liabilities.

(*2) Demand deposits amounting to ₩116,282,706 million and ₩106,160,833 million as of December 31, 2019 and 2018 are included in the 'Less than 1 month' category, respectively.

(*3) 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.

(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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

4. **Financial risk management (continued)**

(e) **Measurement of fair value (continued)**

i) *Financial instruments measured at fair value*

i-1) The fair value hierarchy of financial instruments presented at their fair values in the statements of financial position as of December 31, 2019 and 2018 are as follows:

| | | 2019 | | | Total |
|--|---|-------------------|-------------------|-------------------|--------------------|
| | | Level 1 | Level 2 | Level 3 | |
| Financial assets | | | | | |
| Due from banks measured at FVTPL | ₩ | - | 66,870 | 830,655 | 897,525 |
| Loan receivables measured at FVTPL | | - | 686,446 | 1,468,375 | 2,154,821 |
| Financial assets at FVTPL: | | | | | |
| Debt securities and other securities | | 6,304,161 | 33,145,583 | 8,951,398 | 48,401,142 |
| Equity securities | | 890,714 | 195,395 | 511,831 | 1,597,940 |
| Gold deposits | | 111,715 | - | - | 111,715 |
| Derivative assets: | | | | | |
| Trading | | 35,711 | 2,088,307 | 462,050 | 2,586,068 |
| Hedging | | - | 240,430 | 2,776 | 243,206 |
| Securities measured at FVOCI: | | | | | |
| Debt securities | | 16,892,704 | 41,645,124 | 35,266 | 58,573,094 |
| Equity securities | | 183,107 | - | 624,852 | 807,959 |
| | ₩ | <u>24,418,112</u> | <u>78,068,155</u> | <u>12,887,203</u> | <u>115,373,470</u> |
| Financial liabilities: | | | | | |
| Financial liabilities measured at FVTPL: | | | | | |
| Securities sold | ₩ | 1,164,697 | - | - | 1,164,697 |
| Gold deposits | | 467,760 | - | - | 467,760 |
| Financial liabilities designated at fair value through profit or loss: | | | | | |
| Derivatives-combined securities | | - | 897,967 | 8,511,489 | 9,409,456 |
| Derivative liabilities: | | | | | |
| Trading | | 46,854 | 1,834,930 | 119,220 | 2,001,004 |
| Hedging | | - | 112,258 | 189,750 | 302,008 |
| | ₩ | <u>1,679,311</u> | <u>2,845,155</u> | <u>8,820,459</u> | <u>13,344,925</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

4. Financial risk management (continued)

(e) Measurement of fair value (continued)

i) Financial instruments measured at fair value

i-1) The fair value hierarchy of financial instruments presented at their fair values in the statements of financial position as of December 31, 2019 and 2018 are as follows (continued):

| | | 2018 | | | Total |
|--|---|-------------------|-------------------|------------------|-------------------|
| | | Level 1 | Level 2 | Level 3 | |
| 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 |
| | ₩ | <u>16,498,146</u> | <u>59,350,470</u> | <u>7,793,933</u> | <u>83,642,549</u> |
| 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 |
| | ₩ | <u>1,536,466</u> | <u>3,378,710</u> | <u>7,480,822</u> | <u>12,395,998</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

4. **Financial risk management (continued)**

(e) **Measurement of fair value (continued)**

i) *Financial instruments measured at fair value*

i-2) Changes in carrying values of financial instruments classified as Level 3 for the years ended December 31, 2019 and 2018 are as follows :

| | 2019 | | | |
|--|--|---|---|--|
| | Financial asset at fair value through profit or loss | Securities at fair value through other comprehensive profit or loss | Financial liabilities designated at fair value through profit or loss | Derivative assets and liabilities, net |
| Beginning balance | ₩ 7,122,565 | 550,505 | (6,833,737) | (526,223) |
| Recognized in total comprehensive income for the year: | | | | |
| Recognized in profit (loss) for the year(*1) | 61,738 | 1,461 | (826,594) | 591,332 |
| Recognized in other comprehensive income (loss) for the year | 125,037 | 34,716 | (13,654) | - |
| | 186,775 | 36,177 | (840,248) | 591,332 |
| Purchase | 5,941,978 | 103,564 | - | 2,221 |
| Issue | - | - | (8,821,680) | - |
| Settlement | (2,332,781) | (22,842) | 7,984,176 | 88,312 |
| Reclassification | - | (7,286) | - | - |
| Transfer to level3(*2) | 162,906 | - | - | 248 |
| Transfer from level3(*2) | (27,075) | - | - | (34) |
| Business combination (Note 47) | 707,891 | - | - | - |
| Ending balance | ₩ 11,762,259 | 660,118 | (8,511,489) | 155,856 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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(In millions of won)

4. **Financial risk management (continued)**

(e) **Measurement of fair value (continued)**

i) *Financial instruments measured at fair value*

i-2) Changes in carrying values of financial instruments classified as Level 3 for the years ended December 31, 2019 and 2018 are as follows (continued):

| | 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 profit or loss | Financial liabilities designated at fair value through profit or loss | Derivative assets and liabilities, net | |
| Beginning balance | ₩ 5,831,369 | 152,091 | 621,207 | (7,273,754) | (250,662) | |
| Recognized in total comprehensive income for the year: | | | | | | |
| Recognized in profit (loss) for the year(*1) | 359,160 | 3,390 | 4,692 | 10,090 | (128,816) | |
| Recognized in other comprehensive income (loss) for the year | - | - | 29,388 | 235 | - | |
| | 359,160 | 3,390 | 34,080 | 10,325 | (128,816) | |
| Purchase | 2,143,853 | - | 2,510 | - | 2,236 | |
| Issue | - | - | - | (7,127,670) | - | |
| Settlement | (1,212,202) | (155,481) | (107,292) | 7,557,362 | (148,987) | |
| Transfer to level3(*2) | 1,370 | - | - | - | 6 | |
| Transfer from level3(*2) | (985) | - | - | - | - | |
| Ending balance | ₩ 7,122,565 | - | 550,505 | (6,833,737) | (526,223) | |

(*1) Recognized profit or loss of the changes in carrying value of financial instruments classified as Level 3 for the years ended December 31, 2019 and 2018 are included in the accounts of the statements of comprehensive income, of which the amounts and the related accounts are as follows:

| | 2019 | |
|--|--------------------------------------|---|
| | Amounts recognized in profit or loss | 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 | ₩ 544,849 | 23,912 |
| Net gain on financial assets designated at fair value through profit or loss | (826,594) | (66,113) |
| Net gain on securities at fair value through other comprehensive income | 1,461 | 1,191 |
| Other operating expenses | 108,221 | 109,547 |
| | ₩ (172,063) | 68,537 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES
Notes to the Consolidated Financial Statements
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 (In millions of won)

4. Financial risk management (continued)

(e) Measurement of fair value (continued)

i) Financial instruments measured at fair value

i-2) Changes in carrying values of financial instruments classified as Level 3 for the years ended December 31, 2019 and 2018 are as follows (continued):

| | 2018 | |
|---|---|---|
| | Amounts recognized in profit or loss | 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) allowance for credit loss | 17 | (28) |
| Other operating expenses | 56,176 | 57,317 |
| | <u>₩ 248,516</u> | <u>434,799</u> |

(*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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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(In millions of won)

4. **Financial risk management (continued)**

(e) **Measurement of fair value (continued)**

i) *Financial instruments measured at fair value*

i-3) Valuation techniques and significant inputs not observable in markets

i-3-1) Valuation techniques and inputs used in measuring the fair value of financial instruments classified as level 2 as of December 31, 2019 and 2018 are as follows:

| Type of financial instrument | Valuation technique | 2019 | | Significant inputs |
|---|---------------------|----------------|-------------------|--|
| | | Carrying Value | | |
| Assets | | | | |
| Financial asset at fair value through profit or loss | | | | |
| Debt securities | DCF | ₩ | 33,898,899 | Discount rate, interest rate, stock price and price of underlying assets such as stocks, bonds, etc. |
| Equity securities | NAV | | 195,395 | |
| | | | <u>34,094,294</u> | |
| Derivative assets | | | | |
| Trading | Option model, DCF | | 2,088,307 | Discount rate, foreign exchange rate, volatility, stock price, and commodity index, etc. |
| Hedging | | | 240,430 | |
| | | | <u>2,328,737</u> | |
| Securities at fair value through other comprehensive income | DCF, NAV | | 41,645,124 | Discount rate, growth rate and price of underlying assets such as stock, bonds, etc. |
| | | ₩ | <u>78,068,155</u> | |
| Liabilities | | | | |
| Financial liabilities designated at fair value through profit or loss | | | | |
| Borrowings | DCF | ₩ | 897,967 | Discount rate |
| Derivative liabilities | | | | |
| Trading | Option model, DCF | | 1,834,930 | Discount rate, foreign exchange rate, volatility, stock price, and commodity index, etc. |
| Hedging | | | 112,258 | |
| | | | <u>1,947,188</u> | |
| | | ₩ | <u>2,845,155</u> | |

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 (continued)

i) Financial instruments measured at fair value (continued)

i-3) Valuation techniques and significant inputs not observable in markets (continued)

i-3-1) Valuation techniques and inputs used in measuring the fair value of financial instruments classified as level 2 as of December 31, 2019 and 2018 are as follows (continued):

| Type of financial instrument | Valuation technique | 2018 | | Significant inputs |
|---|---------------------|----------------|-------------------|--|
| | | Carrying Value | | |
| Assets | | | | |
| Financial asset at fair value through profit or loss | | | | |
| Debt securities | DCF | ₩ | 30,501,301 | Discount rate |
| Equity securities | NAV | | 143,139 | Price of underlying assets |
| | | | <u>30,644,440</u> | |
| Derivative assets | | | | |
| Trading | Option model, | | 1,548,769 | Discount rate, foreign exchange rate, volatility, stock price, commodity index, etc. |
| Hedging | DCF | | 61,706 | |
| | | | <u>1,610,475</u> | |
| Securities at fair value through other comprehensive income | DCF | | 27,095,555 | Discount rate, foreign exchange rate, volatility, stock price, commodity index, etc. |
| | | ₩ | <u>59,350,470</u> | |
| Liabilities | | | | |
| Financial liabilities designated at fair value through profit or loss | | | | |
| Derivative liabilities | | | | |
| Trading | Option model | | 1,444,545 | Discount rate, foreign exchange rate, volatility, stock price, commodity index, etc. |
| Hedging | DCF | | 232,102 | |
| | | | <u>1,676,647</u> | |
| | | ₩ | <u>3,378,710</u> | |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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4. **Financial risk management (continued)**

(e) **Measurement of fair value (continued)**

i) *Financial instruments measured at fair value (continued)*

i-3) Valuation techniques and significant inputs not observable in markets (continued)

i-3-2) 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, 2019 and 2018 are as follows:

| Type of financial instrument | Valuation technique | Carrying value(*2) | 2019 | |
|---|-----------------------|---------------------|--|--|
| | | | Significant unobservable inputs | Range |
| Financial assets | | | | |
| Financial asset at fair value through profit or loss | | | | |
| Debt securities | DCF, Option model(*1) | ₩ 11,250,428 | The volatility of the underlying asset Discount rate | 0.00%~46.36% 1.14%~30.70% |
| Equity securities | DCF, NAV | 511,831 | The volatility of the underlying asset Correlations Discount rate | 1.00%~43.00% 5.00%~88.00% 5.06%~15.42% |
| | | <u>11,762,259</u> | | |
| Derivative assets | | | | |
| Equity and foreign exchange related | Option model(*1) | 145,011 | The volatility of the underlying asset Correlations | 1.51%~56.00% -42.00%~82.00% |
| Interest rates related | Option model(*1) | 30,983 | The volatility of the underlying asset Regression coefficient Correlations | 0.50%~0.67% 1.30%~1.57% 59.53% |
| Credit and commodity related | Option model(*1) | 288,832 | The volatility of the underlying asset Correlations | 0.00%~39.00% 0.00%~93.00% |
| | | <u>464,826</u> | | |
| Securities at fair value through other comprehensive income | | | | |
| Debt securities | DCF | 35,266 | Discount rate | 7.78%~19.32% |
| Equity securities | NAV | 624,852 | Growth rate | 0.00%~2.00% |
| | | <u>660,118</u> | | |
| | | <u>₩ 12,887,203</u> | | |
| Financial liabilities | | | | |
| Financial liabilities at fair value through profit or loss | | | | |
| Equity related | Option model(*1) | ₩ 8,511,489 | The volatility of the underlying asset Correlations | 0.00%~140.00% -46.00%~93.00% |
| Derivative liabilities | | | | |
| Equity and foreign exchange related | Option model(*1) | 30,412 | The volatility of the underlying asset Correlations | 0.00%~140.00% 0.00%~78.00% |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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4. **Financial risk management (continued)**

(e) **Measurement of fair value (continued)**

i) *Financial instruments measured at fair value (continued)*

i-3) Valuation techniques and significant inputs not observable in markets (continued)

i-3-2) 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, 2019 and 2018 are as follows (continued):

| Type of financial instrument | Valuation technique | Carrying value(*2) | 2019 | |
|------------------------------|---------------------|--------------------|--|----------------|
| | | | Significant unobservable inputs | Range |
| Interest rates related | Option model(*1) | ₩ 213,170 | The volatility of the underlying asset | 0.00%~55.00% |
| | | | Regression coefficient | 1.30%~2.77% |
| | | | Correlations | 45.06%~90.34% |
| Credit and commodity related | Option model(*1) | 65,388 | The volatility of the underlying asset | 0.00%~109.00% |
| | | | Correlations | -46.00%~93.00% |
| | | | | 308,970 |
| | | ₩ 8,820,459 | | |

(*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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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4. Financial risk management (continued)

(e) Measurement of fair value (continued)

i) *Financial instruments measured at fair value (continued)*

i-3) Valuation techniques and significant inputs not observable in markets

i-3-2) 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, 2019 and 2018 are as follows (continued):

| | | 2018 | | |
|---|-----------------------|--------------------|--|--|
| 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 | DCF, Option model(*1) | ₩ 6,628,747 | The volatility of the underlying asset Correlations | 16.39%~42.56% 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% |
| | | <u>7,122,565</u> | | |
| Derivative assets | | | | |
| Equity and foreign exchange related | Option model(*1) | 43,183 | The volatility of the underlying asset Correlations | 2.20%~38.00% 12.00%~82.00% |
| Interest rates related | Option model(*1) | 44,848 | The volatility of the underlying asset Regression coefficient Correlations | 0.00%~1.00% 0.42%~1.65% 44.93%~91.00% |
| Credit and commodity related | Option model(*1) | 32,832 | The volatility of the underlying asset Correlations | 1.00%~33.00% 33.00%~67.00% |
| | | <u>120,863</u> | | |
| 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% |
| | | <u>550,505</u> | | |
| | | ₩ <u>7,793,933</u> | | |
| Financial liabilities | | | | |
| Financial liabilities 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%~93.00% |
| 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) | 374,976 | The volatility of the underlying asset Regression coefficient Correlations | 0.00%~33.00% 0.42%~2.77% 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% |
| | | <u>647,085</u> | | |
| | | ₩ <u>7,480,822</u> | | |

(*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.

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Notes to the Consolidated Financial Statements

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4. **Financial risk management (continued)**

(e) **Measurement of fair value (continued)**

i) *Financial instruments measured at fair value (continued)*

i-4) *Sensitivity analysis for fair value measurements in Level 3*

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, 2019 and 2018.

| | 2019 | |
|---|----------------------|------------------------|
| | Favorable changes | Unfavorable changes |
| Financial assets: | | |
| Effects on profit or loss for the period(*1): | | |
| Financial asset at fair value through profit or loss | ₩ 44,108 | (23,618) |
| Derivative assets | 24,792 | (22,184) |
| | <u>68,900</u> | <u>(45,802)</u> |
| Effects on other comprehensive income for the period: | | |
| Securities at fair value through other comprehensive income(*2) | 36,258 | (22,183) |
| | <u>₩ 105,158</u> | <u>(67,985)</u> |
| Financial liabilities: | | |
| Effects on profit or loss for the period(*1): | | |
| Financial liabilities designated at fair value through profit or loss | ₩ 55,224 | (53,294) |
| Derivative liabilities | 16,830 | (22,535) |
| | <u>₩ 72,054</u> | <u>(75,829)</u> |
| 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) |
| | <u>73,875</u> | <u>(47,863)</u> |
| Effects on other comprehensive income for the period: | | |
| Securities at fair value through other comprehensive income(*2) | 23,885 | (17,231) |
| | <u>₩ 97,760</u> | <u>(65,094)</u> |
| 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) |
| | <u>₩ 216,150</u> | <u>(219,428)</u> |

(*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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4. Financial risk management (continued)

(e) Measurement of fair value (continued)

ii) Financial instruments measured at amortized cost

ii-1) The method of measuring the fair value of financial instruments measured at amortized cost is as follows:

| <u>Type</u> | <u>Measurement methods of fair value</u> |
|--|--|
| 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. |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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4. Financial risk management (continued)

(e) Measurement of fair value (continued)

ii) Financial instruments measured at amortized cost (continued)

ii-2) The carrying value and the fair value of financial instruments measured at amortized cost as of December 31, 2019 and 2018 are as follows:

| | 2019 | | 2018 | |
|--|----------------|-------------|----------------|-------------|
| | Carrying value | Fair value | Carrying value | Fair value |
| Assets: | | | | |
| Deposits measured at amortized cost | ₩ 25,840,858 | 25,852,497 | 14,731,395 | 14,731,327 |
| Loans measured at amortized cost | | | | |
| Retails | 134,510,282 | 135,620,862 | 125,265,676 | 126,266,820 |
| Corporations | 159,560,873 | 160,818,205 | 146,302,462 | 147,420,557 |
| Public and other funding loans | 3,427,855 | 3,446,485 | 2,868,154 | 2,891,202 |
| Loans between banks | 2,629,999 | 2,644,603 | 3,579,169 | 3,580,576 |
| Credit card | 23,115,970 | 23,489,180 | 21,594,011 | 21,930,174 |
| Securities measured at amortized cost | | | | |
| Government bonds | 30,385,084 | 32,242,339 | 18,000,454 | 18,974,413 |
| Financial institution bonds | 4,770,204 | 4,882,081 | 2,171,623 | 2,195,425 |
| Debentures | 10,426,777 | 10,878,059 | 8,306,059 | 8,506,853 |
| Other financial assets | 17,477,778 | 17,493,331 | 16,837,141 | 16,859,986 |
| | ₩ 412,145,680 | 417,367,642 | 359,656,144 | 363,357,333 |
| Deposit liabilities: | | | | |
| Demand deposits | ₩ 116,282,707 | 116,282,707 | 106,160,834 | 106,160,834 |
| Time deposits | 158,427,447 | 158,478,949 | 139,644,763 | 139,580,314 |
| Certificate of deposit | 9,707,791 | 9,714,806 | 9,247,088 | 9,298,457 |
| Issued bill deposit | 4,579,587 | 4,579,425 | 4,087,530 | 4,087,338 |
| CMA deposits | 3,987,372 | 3,987,372 | 4,084,709 | 4,084,709 |
| Other | 1,889,352 | 1,889,700 | 1,775,266 | 1,775,276 |
| Borrowing debts: | | | | |
| Call-money | 712,247 | 712,247 | 1,425,162 | 1,425,162 |
| Bills sold | 19,070 | 19,035 | 14,536 | 14,506 |
| Bonds sold under repurchase agreements | 9,089,736 | 9,089,736 | 7,614,659 | 7,614,659 |
| Borrowings | 25,042,103 | 25,205,292 | 20,764,185 | 20,844,318 |
| Debts: | | | | |
| Borrowings in won | 64,717,212 | 65,322,413 | 54,769,670 | 55,240,467 |
| Borrowings in foreign currency | 10,646,152 | 10,783,027 | 8,458,029 | 8,265,842 |
| Other financial liabilities | 28,231,911 | 27,949,306 | 20,545,181 | 20,233,920 |
| | ₩ 433,332,687 | 434,014,015 | 378,591,612 | 378,625,802 |

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4. Financial risk management (continued)

(e) Measurement of fair value (continued)

ii) Financial instruments measured at amortized cost (continued)

ii-3) The fair value hierarchy of financial assets and liabilities which are not measured at their fair values in the statements of financial position but with their fair value disclosed as of December 31, 2019 and 2018 are as follows:

| | | 2019 | | | |
|--|---|------------|-------------|-------------|-------------|
| | | Level 1 | Level 2 | Level 3 | Total |
| Assets: | | | | | |
| Deposits measured at amortized cost | ₩ | 3,133,425 | 22,149,706 | 569,366 | 25,852,497 |
| Loans measured at amortized cost | | | | | |
| Retails | | - | - | 135,620,862 | 135,620,862 |
| Corporations | | 108 | - | 160,818,097 | 160,818,205 |
| Public and other funding loans | | - | - | 3,446,485 | 3,446,485 |
| Loans between banks | | - | 960,827 | 1,683,776 | 2,644,603 |
| Credit card | | - | - | 23,489,180 | 23,489,180 |
| Securities measured at amortized cost: | | | | | |
| Government bonds | | 20,524,820 | 11,717,519 | - | 32,242,339 |
| Financial institution bonds | | 2,252,484 | 2,629,597 | - | 4,882,081 |
| Debentures | | - | 10,792,000 | 86,059 | 10,878,059 |
| Other financial assets | | 526,813 | 10,813,821 | 6,152,697 | 17,493,331 |
| | ₩ | 26,437,650 | 59,063,470 | 331,866,522 | 417,367,642 |
| Deposit liabilities: | | | | | |
| Demand deposits | ₩ | 1,053,963 | 115,216,336 | 12,408 | 116,282,707 |
| Time deposits | | - | - | 158,478,949 | 158,478,949 |
| Certificate of deposit | | - | - | 9,714,806 | 9,714,806 |
| Issued bill deposit | | - | - | 4,579,425 | 4,579,425 |
| CMA deposits | | - | 3,987,372 | - | 3,987,372 |
| Other | | 1,747,509 | - | 142,191 | 1,889,700 |
| Borrowing debts: | | | | | |
| Call-money | | 174,000 | 538,247 | - | 712,247 |
| Bills sold | | - | - | 19,035 | 19,035 |
| Bonds sold | | | | | |
| under repurchase agreements | | 6,734,162 | - | 2,355,574 | 9,089,736 |
| Borrowings | | - | - | 25,205,292 | 25,205,292 |
| Debts: | | | | | |
| Borrowings in won | | - | 43,747,553 | 21,574,860 | 65,322,413 |
| Borrowings in foreign currency | | - | 7,535,065 | 3,247,962 | 10,783,027 |
| Other financial liabilities | | 526,685 | 7,932,723 | 19,489,898 | 27,949,306 |
| | ₩ | 10,236,319 | 178,957,296 | 244,820,400 | 434,014,015 |

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4. Financial risk management (continued)

(e) Measurement of fair value (continued)

ii) Financial instruments measured at amortized cost (continued)

ii-3) The fair value hierarchy of financial assets and liabilities which are not measured at their fair values in the statements of financial position but with their fair value disclosed as of December 31, 2019 and 2018 are as follows (continued):

| | | 2018 | | | |
|--|---|------------|-------------|-------------|-------------|
| | | Level 1 | Level 2 | Level 3 | Total |
| Assets: | | | | | |
| Deposits measured at amortized cost | ₩ | 3,364,995 | 10,587,086 | 779,246 | 14,731,327 |
| Loans measured at amortized cost | | | | | |
| Retails | | - | - | 126,266,820 | 126,266,820 |
| Corporations | | - | - | 147,420,557 | 147,420,557 |
| Public and other funding loans | | - | - | 2,891,202 | 2,891,202 |
| Loans between banks | | 590 | 2,498,193 | 1,081,793 | 3,580,576 |
| Credit card | | - | - | 21,930,174 | 21,930,174 |
| Securities measured at amortized cost: | | | | | |
| Government bonds | | 7,887,135 | 11,087,278 | - | 18,974,413 |
| Financial institution bonds | | 719,925 | 1,475,500 | - | 2,195,425 |
| Debentures | | - | 8,423,809 | 83,044 | 8,506,853 |
| Other financial assets | | 74,625 | 11,606,369 | 5,178,992 | 16,859,986 |
| | ₩ | 12,047,270 | 45,678,235 | 305,631,828 | 363,357,333 |
| Deposit liabilities: | | | | | |
| Demand deposits | ₩ | 1,136,610 | 104,998,305 | 25,919 | 106,160,834 |
| Time deposits | | - | - | 139,580,314 | 139,580,314 |
| Certificate of deposit | | - | - | 9,298,457 | 9,298,457 |
| Issued bill deposit | | - | - | 4,087,338 | 4,087,338 |
| CMA deposits | | - | 4,084,709 | - | 4,084,709 |
| Other | | 1,665,090 | - | 110,186 | 1,775,276 |
| Borrowing debts: | | | | | |
| Call-money | | 465,000 | 960,162 | - | 1,425,162 |
| Bills sold | | - | - | 14,506 | 14,506 |
| Bonds sold | | | | | |
| under repurchase agreements | | 5,243,217 | - | 2,371,442 | 7,614,659 |
| Borrowings | | - | 123,874 | 20,720,444 | 20,844,318 |
| Debts: | | | | | |
| Borrowings in won | | - | 36,335,879 | 18,904,588 | 55,240,467 |
| Borrowings in foreign currency | | - | 5,558,527 | 2,707,315 | 8,265,842 |
| 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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4. **Financial risk management (continued)**

(e) **Measurement of fair value (continued)**

ii) *Financial instruments measured at amortized cost (continued)*

ii-4) 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, 2019 and 2018 are as follows:

| | 2019 | | |
|--|----------------------|---------------------|--|
| | Fair value(*) | Valuation technique | Inputs |
| Financial instruments classified as level 2 : | | | |
| Assets | | | |
| Due from banks measured at amortized cost | ₩ 22,149,706 | DCF | Discount rate |
| Loans measured at amortized cost | 960,827 | DCF | Discount rate, credit spread, prepayment rate |
| Securities measured at amortized cost | 25,139,116 | DCF | Discount rate |
| Other financial assets | 10,813,821 | DCF | Discount rate |
| | <u>59,063,470</u> | | |
| Financial instruments classified as level 3 : | | | |
| Assets | | | |
| Due from banks measured at amortized cost | 569,366 | DCF | Discount rate |
| Loans measured at amortized cost | 325,058,400 | DCF | Discount rate, credit spread, prepayment rate |
| Securities measured at amortized cost | 86,059 | DCF | Discount rate |
| Other financial assets | 6,152,697 | DCF | Discount rate |
| | <u>331,866,522</u> | | |
| | <u>₩ 390,929,992</u> | | |
| Financial instruments classified as level 2 : | | | |
| Liabilities | | | |
| Deposits | ₩ 119,203,708 | DCF | Discount rate |
| Borrowings | 538,247 | DCF | Discount rate |
| Debt securities issued | 51,282,618 | DCF | Discount rate |
| Other financial liabilities | 7,932,723 | DCF | Discount rate |
| | <u>178,957,296</u> | | |
| Financial instruments classified as level 3 : | | | |
| Liabilities | | | |
| Deposits | 172,927,779 | DCF | Discount rate |
| Borrowings | 27,579,901 | DCF | Discount rate |
| | | DCF | Discount rate, regression coefficient, correlation coefficient |
| Debt securities issued | 24,822,822 | | |
| Other financial liabilities | 19,489,898 | DCF | Discount rate |
| | <u>244,820,400</u> | | |
| | <u>₩ 423,777,696</u> | | |

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4. **Financial risk management (continued)**

(e) **Measurement of fair value (continued)**

ii) *Financial instruments measured at amortized cost (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, 2019 and 2018 are as follows:

| | 2018 | | |
|--|----------------------|---------------------|--|
| | Fair value(*) | Valuation technique | Inputs |
| Financial instruments classified as level 2 : | | | |
| Assets | | | |
| Due from banks measured at amortized cost | ₩ 10,587,086 | DCF | Discount rate |
| Loans measured at amortized cost | 2,498,193 | DCF | Discount rate, credit spread, prepayment rate |
| Securities measured at amortized cost | 20,986,587 | DCF | Discount rate |
| Other financial assets | 11,606,369 | DCF | Discount rate |
| | <u>₩ 45,678,235</u> | | |
| Liabilities | | | |
| Deposits | ₩ 109,083,014 | DCF | Discount rate |
| Borrowings | 1,084,036 | DCF | Discount rate |
| Debt securities issued | 41,894,406 | DCF | Discount rate |
| Other financial liabilities | 6,630,725 | DCF | Discount rate |
| | <u>₩ 158,692,181</u> | | |
| Financial instruments classified as level 3 : | | | |
| Assets | | | |
| Due from banks measured at amortized cost | ₩ 779,246 | DCF | Discount rate |
| Loans measured at amortized cost | 299,590,546 | DCF | Discount rate, credit spread, prepayment rate |
| Securities measured at amortized cost | 83,044 | DCF | Discount rate |
| Other financial assets | 5,178,992 | DCF | |
| | <u>₩ 305,631,828</u> | | |
| Liabilities | | | |
| Deposits | ₩ 153,102,214 | DCF | Discount rate |
| Borrowings | 23,106,392 | DCF | Discount rate |
| Debt securities issued | 21,611,903 | DCF | Discount rate, regression coefficient, correlation coefficient |
| Other financial liabilities | 13,528,557 | DCF | Discount rate |
| | <u>₩ 211,349,066</u> | | |

(*) Valuation techniques and inputs are not disclosed when the carrying amount is a reasonable approximation of fair value

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, 2019 and 2018*

| | 2019 | 2018 |
|-----------------------------------|--------------------|------------------|
| Beginning balance | ₩ (126,111) | (137,393) |
| Deferral on new transactions | (178,223) | (91,625) |
| Recognized in profit for the year | 131,475 | 102,907 |
| Ending balance | <u>₩ (172,859)</u> | <u>(126,111)</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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4. Financial risk management (continued)

(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 of December 31, 2019 and 2018 are as follows:

| | 2019 | | | | |
|---|---------------------|-------------------|--------------------|---------------------------------|--------------------|
| | FVTPL | FVOCI | Amortized cost | Derivatives held for hedging | Total |
| Assets: | | | | | |
| Cash and due from banks at amortized cost | ₩ - | - | 28,423,744 | - | 28,423,744 |
| Due from banks at fair value through profit or loss | 897,525 | - | - | - | 897,525 |
| Securities at fair value through profit or loss | 50,110,797 | - | - | - | 50,110,797 |
| Derivatives assets | 2,586,068 | - | - | 243,206 | 2,829,274 |
| Loans at fair value through profit or loss | 2,154,821 | - | - | - | 2,154,821 |
| Loans at amortized cost | - | - | 323,244,979 | - | 323,244,979 |
| Securities at fair value through other comprehensive income | - | 59,381,053 | - | - | 59,381,053 |
| Securities at amortized cost | - | - | 45,582,065 | - | 45,582,065 |
| Other | - | - | 17,477,778 | - | 17,477,778 |
| | ₩ <u>55,749,211</u> | <u>59,381,053</u> | <u>414,728,566</u> | <u>243,206</u> | <u>530,102,036</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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(In millions of won)

4. Financial risk management (continued)

(f) Classification by categories of financial instruments (continued)

The carrying amounts of each category of financial assets and financial liabilities as of December 31, 2019 and 2018 are as follows:

| | 2019 | | | | |
|---|--------------------|------------------------------------|---|---------------------------------|--------------------|
| | FVTPL | FVTPL liabilities designated | Financial liabilities measured at amortized cost | Derivatives held for hedging | Total |
| Liabilities: | | | | | |
| Deposits | ₩ - | - | 294,874,256 | - | 294,874,256 |
| Financial liabilities at fair value through profit or loss | 1,632,457 | - | - | - | 1,632,457 |
| Financial liabilities designated at FVTPL | - | 9,409,456 | - | - | 9,409,456 |
| Derivatives liabilities | 2,001,004 | - | - | 302,008 | 2,303,012 |
| Borrowings | - | - | 34,863,156 | - | 34,863,156 |
| Debt securities issued | - | - | 75,363,364 | - | 75,363,364 |
| Other | - | - | 28,231,911 | - | 28,231,911 |
| | ₩ <u>3,633,461</u> | <u>9,409,456</u> | <u>433,332,687</u> | <u>302,008</u> | <u>446,677,612</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

4. Financial risk management (continued)

(f) Classification by categories of financial instruments (continued)

The carrying amounts of each category of financial assets and financial liabilities as of December 31, 2019 and 2018 are as follows:

| | 2018 | | | | |
|---|---------------------|-------------------|--------------------|------------------------------|--------------------|
| | FVTPL | FVOCI | 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 |
| Derivatives | 1,727,321 | - | - | 66,292 | 1,793,613 |
| Loans at fair value through profit or loss | 1,209,194 | - | - | - | 1,209,194 |
| Loans at amortized cost | - | - | 299,609,472 | - | 299,609,472 |
| Securities at fair value through other comprehensive income | - | 38,314,170 | - | - | 38,314,170 |
| Securities at amortized cost | - | - | 28,478,136 | - | 28,478,136 |
| Other | - | - | 16,837,141 | - | 16,837,141 |
| | ₩ <u>45,262,087</u> | <u>38,314,170</u> | <u>362,273,375</u> | <u>66,292</u> | <u>445,915,924</u> |

| | 2018 | | | | |
|--|--------------------|------------------------------|--|------------------------------|--------------------|
| | FVTPL | FVTPL liabilities designated | 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 |
| | ₩ <u>3,266,975</u> | <u>8,535,800</u> | <u>378,591,612</u> | <u>593,223</u> | <u>390,987,610</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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(In millions of won)

4. Financial risk management (continued)

(g) Transfer of financial instruments

i) Transfers that do not qualify for derecognition

① Sale of repurchase bonds

Among the Group's sale of repurchase bonds, followings are the details of financial instruments that do not qualify for derecognition because the Group sold on the condition that the Group repurchases at a fixed price as of December 31, 2019 and 2018:

| | <u>2019</u> | <u>2018</u> |
|--|---------------------|------------------|
| Transferred asset: | | |
| Securities at FVTPL | ₩ 7,924,953 | 6,711,060 |
| Securities at FVOCI | 1,867,470 | 688,593 |
| Securities at amortized cost | 818,470 | 156,066 |
| | <u>₩ 10,610,893</u> | <u>7,555,719</u> |
| Associated liabilities: | | |
| Bonds sold under repurchase agreements | ₩ 8,717,336 | 7,167,364 |

② Securities loaned

If the securities owned by the Group are loaned, the ownership of the securities is transferred, but is required to be returned at the end of the loan period. Thus, the Group continues to recognize all of the securities loaned as it holds most of the risks and compensation of the securities.

Securities loaned as of December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> | <u>Borrowers</u> |
|------------------------------|--------------------|------------------|---|
| Government bonds | ₩ 3,951,869 | 1,216,381 | Korea Securities Finance Corp., Korea Securities Depository, Sumitomo Mitsui Banking Corp and etc. |
| Financial institutions bonds | 460,052 | 409,831 | Korea Securities Finance Corp., Korea Securities Depository |
| Equity securities | 30,242 | 6,029 | Mirae Asset Daewoo Securities Co., Ltd, and etc. |
| | <u>₩ 4,442,163</u> | <u>1,632,241</u> | |

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, 2019, and 2018.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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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, 2019 and 2018 are as follows:

| | 2019 | | | | | |
|---|---|--|---|---|-----------------------------|-------------------|
| | Gross amounts of recognized financial assets/ liabilities | Gross amounts of recognized financial assets/ liabilities set off in the statement of financial position | Net amounts of financial assets/ liabilities presented in the statement of financial position | Related amounts not set off in the statement of financial position | | Net amount |
| | | | | Financial instruments | Cash collateral received | |
| Assets: | | | | | | |
| Derivatives(*1) | ₩ 2,694,236 | - | 2,694,236 | 8,090,372 | 263,541 | 1,645,802 |
| Other financial instruments(*1) | 8,624,844 | 1,319,365 | 7,305,479 | | | |
| Bonds purchased under repurchase agreements(*2) | 11,828,135 | - | 11,828,135 | 11,051,075 | - | 777,060 |
| Securities loaned(*2) | 1,927,674 | - | 1,927,674 | 1,927,674 | - | - |
| Domestic exchange settlement debit(*3) | 31,814,310 | 27,008,189 | 4,806,121 | 526,653 | - | 4,279,468 |
| Receivables from disposal of securities(*4) | 25,808 | 1,134 | 24,674 | - | - | 24,674 |
| Insurance receivables | 10,353 | - | 10,353 | 8,008 | - | 2,345 |
| | <u>₩ 56,925,360</u> | <u>28,328,688</u> | <u>28,596,672</u> | <u>21,603,782</u> | <u>263,541</u> | <u>6,729,349</u> |
| Liabilities: | | | | | | |
| Derivatives(*1) | ₩ 12,803,450 | - | 12,803,450 | 8,279,924 | 11,693 | 10,704,107 |
| Other financial instruments(*1) | 7,511,639 | 1,319,365 | 6,192,274 | | | |
| Bonds purchased under repurchase agreements(*2) | 8,717,336 | - | 8,717,336 | 8,717,336 | - | - |
| Securities borrowed(*2) | 1,135,614 | - | 1,135,614 | 1,135,614 | - | - |
| Domestic exchange settlement pending(*3) | 28,936,661 | 27,008,189 | 1,928,472 | 1,857,152 | - | 71,320 |
| Payable from purchase of securities(*4) | 1,607 | 1,134 | 473 | 473 | - | - |
| Insurance payables | 8,202 | - | 8,202 | 8,008 | - | 194 |
| | <u>₩ 59,114,509</u> | <u>28,328,688</u> | <u>30,785,821</u> | <u>19,998,507</u> | <u>11,693</u> | <u>10,775,621</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

4. Financial risk management (continued)

(h) Offsetting financial assets and financial liabilities (continued)

Financial assets and liabilities subject to offsetting, enforceable master netting arrangements and similar agreements as of December 31, 2019 and 2018 are as follows:

| | 2018 | | | | | |
|---|---|--|---|---|-----------------------------|------------------|
| | Gross amounts of recognized financial assets/ liabilities | Gross amounts of recognized financial assets/ liabilities set off in the statement of financial position | Net amounts of financial assets/ liabilities presented in the statement of financial position | Related amounts not set off in the statement of financial position | | Net amount |
| | | | | Financial instruments | Cash collateral received | |
| Assets: | | | | | | |
| Derivatives(*1) | ₩ 1,730,828 | - | 1,730,828 | 6,746,640 | 26,638 | 1,165,276 |
| Other financial instruments(*1) | 7,476,505 | 1,268,779 | 6,207,726 | | | |
| 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 |
| | <u>₩ 56,658,066</u> | <u>27,771,909</u> | <u>28,886,157</u> | <u>20,629,246</u> | <u>26,638</u> | <u>8,230,273</u> |
| Liabilities: | | | | | | |
| Derivatives(*1) | ₩ 11,858,108 | - | 11,858,108 | 7,850,210 | - | 9,334,098 |
| Other financial instruments(*1) | 6,594,979 | 1,268,779 | 5,326,200 | | | |
| Bonds purchased under repurchase agreements(*2) | 7,170,744 | - | 7,170,744 | 7,170,744 | - | - |
| Securities borrowed(*2) | 746,521 | - | 746,521 | 746,521 | - | - |
| 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 |
| | <u>₩ 54,023,073</u> | <u>27,771,909</u> | <u>26,251,164</u> | <u>16,863,187</u> | <u>-</u> | <u>9,387,977</u> |

(*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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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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, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|--------------------------------------|---------------------|-------------------|
| Capital : | | |
| Tier I common equity capital | ₩ 28,561,567 | 28,696,267 |
| Additional tier 1 capital | 3,138,262 | 1,981,609 |
| Tier I capital | 31,699,830 | 30,677,876 |
| Tier II capital | 4,014,740 | 3,315,185 |
| Total capital (A) | ₩ <u>35,714,570</u> | <u>33,993,061</u> |
| Total risk-weighted assets (B) | ₩ 256,891,664 | 228,678,105 |
| Capital adequacy ratio (A/B) | 13.90% | 14.87% |
| Tier I capital adequacy ratio | 12.34% | 13.42% |
| Common equity capital adequacy ratio | 11.12% | 12.55% |

The Group complies with the capital adequacy criteria as shown in the table above (the minimum capital adequacy ratio of 8%).

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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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.

(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 techniques 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) Allowance for credit loss, 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 are 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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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5. Significant estimates and judgments (continued)

(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.

6. Investment in subsidiaries

(a) The summarized financial information of the controlling company and the Group's major subsidiaries as of December 31, 2019 and 2018 is as follows:

| Investees(*1) | 2019 | | | 2018 | | |
|--|---------------|-------------------|----------------|---------------|-------------------|----------------|
| | Asset balance | Liability balance | Equity balance | Asset balance | Liability balance | Equity balance |
| Shinhan Financial Group(separate) | ₩ 32,261,322 | 9,795,896 | 22,465,426 | 30,114,232 | 8,464,164 | 21,650,068 |
| Shinhan Bank | 392,723,044 | 366,629,929 | 26,093,115 | 348,523,615 | 324,331,076 | 24,192,539 |
| Shinhan Card Co., Ltd. | 32,917,910 | 26,769,044 | 6,148,866 | 29,429,455 | 23,427,988 | 6,001,467 |
| Shinhan Investment Corp. | 37,375,487 | 33,138,930 | 4,236,557 | 28,987,216 | 25,614,647 | 3,372,569 |
| Shinhan Life Insurance Co., Ltd. | 34,133,649 | 32,062,490 | 2,071,159 | 31,823,631 | 30,078,522 | 1,745,109 |
| Orange Life Insurance Co., Ltd. | 32,841,359 | 29,654,711 | 3,186,648 | - | - | - |
| Shinhan Capital Co., Ltd. | 7,566,428 | 6,612,519 | 953,909 | 6,116,585 | 5,368,265 | 748,320 |
| Jeju Bank | 6,192,927 | 5,695,223 | 497,704 | 5,980,941 | 5,507,949 | 472,992 |
| Shinhan Credit Information Co., Ltd. | 25,292 | 10,044 | 15,248 | 24,377 | 8,750 | 15,627 |
| Shinhan Alternative Investment Management Inc. | 87,694 | 75,665 | 12,029 | 102,079 | 92,194 | 9,885 |
| Shinhan BNP Paribas Asset Management Co., Ltd. | 184,203 | 19,678 | 164,525 | 173,964 | 14,841 | 159,123 |
| SHC Management Co., Ltd. | 9,639 | - | 9,639 | 9,755 | 198 | 9,557 |
| Shinhan DS | 89,141 | 67,954 | 21,187 | 43,095 | 23,118 | 19,977 |
| Shinhan Savings Bank | 1,602,902 | 1,418,317 | 184,585 | 1,454,290 | 1,291,012 | 163,278 |
| Asia Trust Co., Ltd. | 172,793 | 43,933 | 128,860 | - | - | - |
| Shinhan AITAS Co., Ltd. | 77,086 | 10,962 | 66,124 | 65,725 | 7,367 | 58,358 |
| Shinhan REITs Management Co., Ltd. | 45,832 | 5,619 | 40,213 | 36,298 | 3,496 | 32,802 |
| Shinhan AI Co., Ltd. | 42,402 | 1,674 | 40,728 | - | - | - |

(*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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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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, 2019 and 2018 is as follows:

| Investees(*1) | 2019 | | | 2018 | | |
|---|-----------------------------------|---------------|-------------------------|----------------------|---------------|-------------------------|
| | Operating Operating Revenue | Net Income | Comprehensive Income | Operating Revenue | Net Income | Comprehensive Income |
| Shinhan Financial Group(separate) | ₩ 1,480,030 | 1,129,173 | 1,127,202 | 1,519,197 | 1,234,883 | 1,234,044 |
| Shinhan Bank | 23,145,476 | 2,329,268 | 2,527,665 | 19,731,711 | 2,279,362 | 2,333,266 |
| Shinhan Card Co., Ltd. | 3,892,257 | 509,032 | 486,114 | 3,752,232 | 517,761 | 477,135 |
| Shinhan Investment Corp. | 6,139,926 | 220,764 | 225,963 | 5,279,567 | 251,268 | 269,058 |
| Shinhan Life Insurance Co., Ltd. | 5,413,175 | 123,870 | 326,783 | 5,633,679 | 131,021 | 150,997 |
| Orange Life Insurance Co., Ltd. | 4,662,085 | 271,455 | 433,510 | - | - | - |
| Shinhan Capital Co., Ltd. | 455,246 | 126,050 | 123,032 | 439,031 | 103,400 | 100,317 |
| Jeju Bank | 239,732 | 27,934 | 30,519 | 224,766 | 27,446 | 30,579 |
| Shinhan Credit Information Co., Ltd. | 38,648 | 507 | 658 | 37,616 | 1,392 | 985 |
| Shinhan Alternative Investment Management Inc. | 32,401 | 2,144 | 2,144 | 21,590 | (780) | (780) |
| Shinhan BNP Paribas Asset Management Co., Ltd. | 84,256 | 23,090 | 22,655 | 78,378 | 18,868 | 18,980 |
| SHC Management Co., Ltd. | 154 | 82 | 82 | 140 | 309 | 309 |
| Shinhan DS | 138,697 | 2,074 | 1,292 | 99,279 | 1,314 | 1,525 |
| Shinhan Savings Bank | 116,849 | 23,122 | 22,972 | 94,636 | 19,384 | 18,919 |
| Asia Trust Co., Ltd. | 54,920 | 18,098 | 18,128 | - | - | - |
| Shinhan AITAS Co., Ltd. | 51,823 | 10,821 | 10,821 | 44,729 | 8,461 | 8,461 |
| Shinhan REITs Management Co., Ltd. | 7,342 | 7,414 | 7,411 | 7,386 | 3,564 | 3,552 |
| Shinhan AI Co., Ltd. | 3,088 | (654) | (654) | - | - | - |

(*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.

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6. Investment in subsidiaries (continued)

(c) Change in the scope of consolidation

i) Change in consolidated subsidiaries for the year ended December 31, 2019 are as follows:

| | <u>Company</u> | <u>Description</u> |
|----------|---------------------------------|---------------------------|
| Included | Orange Life Insurance Co., Ltd. | Newly acquired subsidiary |
| | Asia Trust Co., Ltd. | Newly acquired subsidiary |
| | Shinhan Vietnam Finance Ltd. | Newly acquired subsidiary |
| | Shinhan AI Co., Ltd. | Newly invested subsidiary |

ii) Change in consolidated subsidiaries for the year ended December 31, 2018 are as follows:

| | <u>Company</u> | <u>Description</u> |
|----------|---------------------------------------|---------------------------|
| Included | 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.

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7. Operating segments

(a) Segment information

The general descriptions by operating segments as of December 31, 2019 are as follows:

| <u>Segment</u> | <u>Description</u> |
|----------------|---|
| 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 | The credit card segment primarily consists of the credit card business of Shinhan Card, including its installment finance and automobile leasing businesses. |
| Securities | Securities segment comprise securities trading, underwriting and brokerage services. |
| Life insurance | Life insurance segment consists of life insurance services provided by Shinhan Life Insurance and Orange Life Insurance. |
| Others | Leasing, assets management and other businesses |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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7. Operating segments (continued)

(b) The following tables provide information of income and expense for each operating segment for the years ended December 31, 2019 and 2018:

| | | 2019 | | | | | | |
|---|---|-------------|-------------|------------|----------------|-----------|--------------------------|-------------|
| | | Banking | Credit card | Securities | Life insurance | Others | Consolidation adjustment | Total |
| Net interest income | ₩ | 5,989,462 | 1,753,966 | 457,852 | 1,647,795 | 127,564 | (238,675) | 9,737,964 |
| Net fees and commission income | | 950,389 | 403,259 | 351,303 | 167,324 | 272,244 | (4,000) | 2,140,519 |
| Reversal of (provision for) allowance for credit loss (“ACL”) | | (389,004) | (566,415) | 1,325 | (797) | (25,030) | (771) | (980,692) |
| General and administrative expenses | | (3,177,158) | (745,848) | (511,418) | (443,013) | (335,090) | 77,853 | (5,134,674) |
| Other income (expense), net | | (211,882) | (33,204) | (59,006) | (786,103) | 129,272 | 244,056 | (716,867) |
| Operating income | | 3,161,807 | 811,758 | 240,056 | 585,206 | 168,960 | 78,463 | 5,046,250 |
| Equity method income (loss) | | (764) | - | 18,163 | (1,296) | 12,265 | 24,919 | 53,287 |
| Income tax expense | | 718,650 | 205,863 | 68,311 | 187,608 | 73,213 | 15,479 | 1,269,124 |
| Profit for the year | ₩ | 2,256,652 | 609,582 | 220,764 | 395,325 | 100,259 | 59,802 | 3,642,384 |
| Controlling interest | ₩ | 2,256,576 | 609,350 | 220,850 | 395,325 | 100,259 | (178,863) | 3,403,497 |
| Non-controlling interests | | 76 | 232 | (86) | - | - | 238,665 | 238,887 |

| | | 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 for) ACL | | (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(loss) (expense) | | 3,046,592 | 873,070 | 332,870 | 181,231 | 102,019 | (36,368) | 4,499,414 |
| Equity method income (loss) | | (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 for the year | ₩ | 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 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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7. **Operating segments (continued)**

(c) The following tables provide information of net interest income (expense) of each operating segment for the years ended December 31, 2019 and 2018:

| | | 2019 | | | | | | |
|---------------------------|---|------------------|------------------|----------------|------------------|----------------|------------------------------|------------------|
| | | Banking | Credit card | Securities | Life insurance | Others | Consolidation adjustment (*) | Total |
| Net interest income from: | | | | | | | | |
| External customers(*) | ₩ | 5,995,097 | 1,781,266 | 450,268 | 1,647,988 | 103,161 | (239,816) | 9,737,964 |
| Internal transactions | | (5,635) | (27,300) | 7,584 | (193) | 24,403 | 1,141 | - |
| | ₩ | <u>5,989,462</u> | <u>1,753,966</u> | <u>457,852</u> | <u>1,647,795</u> | <u>127,564</u> | <u>(238,675)</u> | <u>9,737,964</u> |

(*) Consolidated adjustment to net interest income from external customers is from the securities and others which were measured in fair values as a part of business combination accounting .

| | | 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 | - |
| | ₩ | <u>5,707,813</u> | <u>1,583,100</u> | <u>429,095</u> | <u>761,742</u> | <u>95,618</u> | <u>2,721</u> | <u>8,580,089</u> |

(d) The following tables provide information of net fees and commission income (expense) of each operating segment for the years ended December 31, 2019 and 2018:

| | | 2019 | | | | | | |
|--------------------------------------|---|----------------|----------------|----------------|----------------|----------------|--------------------------|------------------|
| | | Banking | Credit card | Securities | Life insurance | Others | Consolidation adjustment | Total |
| Net fees and commission income from: | | | | | | | | |
| External customers | ₩ | 1,157,020 | 254,139 | 361,526 | 175,171 | 192,663 | - | 2,140,519 |
| Internal transactions | | (206,631) | 149,120 | (10,223) | (7,847) | 79,581 | (4,000) | - |
| | ₩ | <u>950,389</u> | <u>403,259</u> | <u>351,303</u> | <u>167,324</u> | <u>272,244</u> | <u>(4,000)</u> | <u>2,140,519</u> |

| | | 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) | - |
| | ₩ | <u>850,646</u> | <u>433,043</u> | <u>388,944</u> | <u>69,780</u> | <u>198,828</u> | <u>(2,244)</u> | <u>1,938,997</u> |

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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, 2019 and 2018.

| | | <u>2019</u> | <u>2018</u> |
|----------|---|------------------|------------------|
| Domestic | ₩ | 4,378,239 | 4,023,916 |
| Overseas | | 668,011 | 475,498 |
| | ₩ | <u>5,046,250</u> | <u>4,499,414</u> |

The following table provides information of non-current assets by geographical area as of December 31, 2019 and 2018.

| | | <u>2019</u> | <u>2018</u> |
|----------|---|-------------------|------------------|
| Domestic | ₩ | 9,816,600 | 7,597,266 |
| Overseas | | 314,052 | 201,574 |
| | ₩ | <u>10,130,652</u> | <u>7,798,840</u> |

(*) Non-current assets comprise property and equipment, intangible assets and investment properties.

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8. Cash and due from banks at amortized cost

(a) Cash and due from banks at amortized cost as of December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|-------------------------------|---------------------|-------------------|
| Cash and cash equivalents | ₩ 2,582,886 | 2,617,231 |
| Deposits in won: | | |
| Reserve deposits | 13,840,988 | 2,360,416 |
| Time deposits | 1,413,964 | 1,346,015 |
| Other | 1,890,541 | 2,271,812 |
| | <u>17,145,493</u> | <u>5,978,243</u> |
| Deposits in foreign currency: | | |
| Deposits | 5,616,049 | 5,045,513 |
| Time deposits | 2,393,885 | 2,791,486 |
| Other | 697,505 | 930,977 |
| | <u>8,707,439</u> | <u>8,767,976</u> |
| Allowance for credit losses | (12,074) | (14,824) |
| | <u>₩ 28,423,744</u> | <u>17,348,626</u> |

(b) Restricted due from banks at amortized cost as of December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|--|---------------------|------------------|
| Deposits denominated in won: | | |
| Reserve deposits | ₩ 13,840,988 | 2,360,416 |
| Other | 1,081,698 | 2,182,119 |
| | <u>14,922,686</u> | <u>4,542,535</u> |
| Deposits denominated in foreign currency | 1,584,239 | 1,632,971 |
| | <u>₩ 16,506,925</u> | <u>6,175,506</u> |

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9. Financial assets at fair value through profit or loss

(a) Financial assets at fair value through profit or loss as of December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|-----------------------------------|---------------------|-------------------|
| Debt instruments: | | |
| Governments | ₩ 2,873,419 | 2,765,054 |
| Financial institutions | 12,711,074 | 9,415,470 |
| Corporations | 8,541,514 | 6,664,839 |
| Stocks with put option | 598,858 | 381,844 |
| Equity investment with put option | 1,458,933 | 1,080,723 |
| Beneficiary certificates | 10,678,620 | 9,062,004 |
| Commercial papers | 5,160,063 | 5,535,397 |
| CMA | 3,723,401 | 3,001,831 |
| Others(*) | 2,655,260 | 2,227,802 |
| | <u>48,401,142</u> | <u>40,134,964</u> |
| Equity instruments: | | |
| Stocks | 1,488,743 | 1,050,097 |
| Equity investment | - | 4,908 |
| Others | 109,197 | 110,066 |
| | <u>1,597,940</u> | <u>1,165,071</u> |
| | <u>49,999,082</u> | <u>41,300,035</u> |
| Other: | | |
| Loans at fair value | 2,154,821 | 1,209,194 |
| Due from banks at fair value | 897,525 | 870,656 |
| Gold deposits | 111,715 | 154,881 |
| | <u>₩ 53,163,143</u> | <u>43,534,766</u> |

(*) As of December 31, 2019 and 2018, restricted reserve for claims of customers' deposits (trusts) are ₩1,103,050 million and 1,040,180 million, respectively.

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9. Financial assets at fair value through profit or loss (continued)

(b) Financial assets to which overlay approach were applied in accordance with K-IFRS No. 1109 'Financial Instruments' and K-IFRS No. 1104 'Insurance Contracts' as of December 31, 2019 and 2018 are as follows.

| | | <u>2019</u> | <u>2018</u> |
|---|---|------------------|------------------|
| Due from banks at fair value through profit or loss | ₩ | 897,525 | 870,656 |
| Securities at fair value through profit or loss | | 5,139,380 | 3,160,525 |
| | ₩ | <u>6,036,905</u> | <u>4,031,181</u> |

A financial asset is eligible for designation for the overlay approach, if it is measured at fair value through profit or loss applying K-IFRS No. 1109 but would not have been measured at fair value through profit or loss in its entirety applying K-IFRS No. 1039; and it is not held in respect of an activity that is not associated with contracts within the scope of K-IFRS No. 1104.

The reclassified amounts between profit or loss and other comprehensive income due to the overlay approach as of and for the years ended December 31, 2019 and 2018 are as follows:

| | | <u>2019</u> | | | |
|---|---|-----------------------|-----------------------|----------------------------|-----------------|
| | | Profit or loss | | Other comprehensive income | |
| | | By K-IFRS No. 1109 | By K-IFRS No. 1039 | Amount | Tax effect |
| Net gain (loss) on valuation of financial assets at fair value through profit or loss | ₩ | 150,865 | (74,586) | 225,451 | (50,042) |
| Net gain (loss) on disposal of financial assets at fair value through profit or loss | | 65,627 | 43,493 | 22,134 | (4,672) |
| | ₩ | <u>216,492</u> | <u>(31,093)</u> | <u>247,585</u> | <u>(54,714)</u> |
| | | <u>2018</u> | | | |
| | | Profit or loss | | Other comprehensive income | |
| | | By K-IFRS No. 1109 | By K-IFRS No. 1039 | 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 |
| | ₩ | <u>(72,869)</u> | <u>2,073</u> | <u>(74,942)</u> | <u>20,609</u> |

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10. Derivatives

(a) The notional amounts of derivatives as of December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|----------------------------------|----------------------|--------------------|
| Foreign currency related: | | |
| Over the counter: | | |
| Currency forwards | ₩ 137,383,704 | 139,804,552 |
| Currency swaps | 40,826,444 | 31,794,900 |
| Currency options | 2,758,801 | 1,939,939 |
| | <u>180,968,949</u> | <u>173,539,391</u> |
| Exchange traded: | | |
| Currency futures | 1,045,138 | 436,714 |
| | <u>182,014,087</u> | <u>173,976,105</u> |
| Interest rates related: | | |
| Over the counter: | | |
| Interest rate swaps | 37,801,528 | 31,228,489 |
| Interest rate options | 286,000 | 294,000 |
| | <u>38,087,528</u> | <u>31,522,489</u> |
| Exchange traded: | | |
| Interest rate futures | 2,455,450 | 1,739,697 |
| Interest rate swaps(*) | 65,868,540 | 56,862,374 |
| | <u>68,323,990</u> | <u>58,602,071</u> |
| | <u>106,411,518</u> | <u>90,124,560</u> |
| Credit related: | | |
| Over the counter: | | |
| Credit swaps | 5,404,257 | 3,840,660 |
| Equity related: | | |
| Over the counter: | | |
| Equity swaps and forwards | 4,255,831 | 5,134,004 |
| Equity options | 864,038 | 645,709 |
| | <u>5,119,869</u> | <u>5,779,713</u> |
| Exchange traded: | | |
| Equity futures | 876,220 | 630,409 |
| Equity options | 4,039,226 | 2,708,557 |
| | <u>4,915,446</u> | <u>3,338,966</u> |
| | <u>10,035,315</u> | <u>9,118,679</u> |
| Commodity related: | | |
| Over the counter: | | |
| Commodity swaps and forwards | 758,533 | 890,289 |
| Commodity options | - | 4,780 |
| | <u>758,533</u> | <u>895,069</u> |
| Exchange traded: | | |
| Commodity futures and options | 344,329 | 245,751 |
| | <u>1,102,862</u> | <u>1,140,820</u> |
| Hedge: | | |
| Currency forwards | 1,869,518 | 1,522,306 |
| Currency swaps | 4,532,114 | 4,143,828 |
| Interest rate swaps | 10,091,632 | 10,147,731 |
| | <u>16,493,264</u> | <u>15,813,865</u> |
| | <u>₩ 321,461,303</u> | <u>294,014,689</u> |

(*) The notional amount of derivatives which is settled in the 'Central Counter Party (CCP)' system.

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10. Derivatives (continued)

(b) Fair values of derivative instruments as of December 31, 2019 and 2018 are as follows:

| | 2019 | | 2018 | |
|----------------------------------|------------------|------------------|------------------|------------------|
| | Assets | Liabilities | Assets | Liabilities |
| Foreign currency related: | | | | |
| Over the counter: | | | | |
| Currency forwards | ₩ 1,360,384 | 1,056,760 | 912,795 | 870,984 |
| Currency swaps | 473,797 | 519,445 | 393,702 | 372,725 |
| Currency options | 9,007 | 9,430 | 7,637 | 12,273 |
| | <u>1,843,188</u> | <u>1,585,635</u> | <u>1,314,134</u> | <u>1,255,982</u> |
| Exchange traded: | | | | |
| Currency futures | - | - | 11 | - |
| | <u>1,843,188</u> | <u>1,585,635</u> | <u>1,314,145</u> | <u>1,255,982</u> |
| Interest rates related: | | | | |
| Over the counter: | | | | |
| Interest rate swaps | 260,020 | 247,723 | 251,251 | 172,019 |
| Interest rate options | 835 | 5,626 | - | 5,347 |
| | <u>260,855</u> | <u>253,349</u> | <u>251,251</u> | <u>177,366</u> |
| Exchange traded: | | | | |
| Interest rate futures | 697 | 595 | 412 | 1,569 |
| | <u>261,552</u> | <u>253,944</u> | <u>251,663</u> | <u>178,935</u> |
| Credit related: | | | | |
| Over the counter: | | | | |
| Credit swaps | 283,015 | 38,598 | 43,382 | 30,372 |
| Equity related: | | | | |
| Over the counter: | | | | |
| Equity swap and forwards | 144,276 | 39,422 | 51,243 | 205,611 |
| Equity options | 4,526 | 9,402 | 2,265 | 2,352 |
| | <u>148,802</u> | <u>48,824</u> | <u>53,508</u> | <u>207,963</u> |
| Exchange traded: | | | | |
| Equity futures | 4,318 | 6,417 | 15,937 | 778 |
| Equity options | 28,355 | 29,741 | 37,690 | 109,795 |
| | <u>32,673</u> | <u>36,158</u> | <u>53,627</u> | <u>110,573</u> |
| | <u>181,475</u> | <u>84,982</u> | <u>107,135</u> | <u>318,536</u> |
| Commodity related: | | | | |
| Over the counter: | | | | |
| Commodity swaps and forwards | 14,496 | 27,745 | 2,743 | 58,800 |
| Commodity options | - | - | 27 | 29 |
| | <u>14,496</u> | <u>27,745</u> | <u>2,770</u> | <u>58,829</u> |
| Exchange traded: | | | | |
| Commodity futures | 2,342 | 10,100 | 8,226 | 4,016 |
| | <u>16,838</u> | <u>37,845</u> | <u>10,996</u> | <u>62,845</u> |
| Hedge: | | | | |
| Currency forwards | 14,380 | 21,121 | 9,185 | 30,497 |
| Currency swaps | 74,240 | 48,396 | 21,976 | 79,492 |
| Interest rate swaps | 154,586 | 232,491 | 35,131 | 483,233 |
| | <u>243,206</u> | <u>302,008</u> | <u>66,292</u> | <u>593,222</u> |
| ₩ | <u>2,829,274</u> | <u>2,303,012</u> | <u>1,793,613</u> | <u>2,439,892</u> |

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10. Derivatives (continued)

(c) Gain or loss on valuation of derivatives for the years ended December 31, 2019 and 2018 are as follows:

| | 2019 | 2018 |
|---------------------------------|------------------|------------------|
| Foreign currency related | | |
| Over the counter: | | |
| Currency forwards | ₩ 174,340 | 41,188 |
| Currency swaps | (24,827) | (34,444) |
| Currency options | 4,056 | 8,247 |
| | <u>153,569</u> | <u>14,991</u> |
| Exchange traded: | | |
| Currency futures | - | 11 |
| | <u>153,569</u> | <u>15,002</u> |
| Interest rates related | | |
| Over the counter: | | |
| Interest rate swaps | (75,349) | 86,675 |
| Interest rate options | (1,938) | (1,459) |
| | <u>(77,287)</u> | <u>85,216</u> |
| Exchange traded: | | |
| Interest rate futures | 1,008 | (2,512) |
| | <u>(76,279)</u> | <u>82,704</u> |
| Credit related | | |
| Over the counter: | | |
| Credit swaps | 213,754 | (18,396) |
| Equity related | | |
| Over the counter: | | |
| Equity swap and forwards | 46,770 | (271,457) |
| Equity options | (841) | 4,326 |
| | <u>45,929</u> | <u>(267,131)</u> |
| Exchange traded: | | |
| Equity futures | (2,275) | 15,159 |
| Equity options | 58,721 | (44,163) |
| | <u>56,446</u> | <u>(29,004)</u> |
| | <u>102,375</u> | <u>(296,135)</u> |
| Commodity related | | |
| Over the counter: | | |
| Commodity swaps and forwards | 3,191 | (79,296) |
| Commodity options | 29 | 33 |
| | <u>3,220</u> | <u>(79,263)</u> |
| Exchange traded: | | |
| Commodity futures | (7,759) | 4,209 |
| | <u>(4,539)</u> | <u>(75,054)</u> |
| Hedge | <u>332,778</u> | <u>78,892</u> |
| | <u>₩ 721,658</u> | <u>(212,987)</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

10. 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 years ended December 31, 2019 and 2018 were as follows:

| | | 2019 | | |
|---------------------------|---|--|---|---|
| | | Gains (losses) on fair value hedges (hedged items) | Gains (losses) on fair value hedges (hedging instruments) | Hedge ineffectiveness recognized in profit or loss (*2) |
| Fair value hedges | | | | |
| Interest rate swaps(*1) | ₩ | (370,787) | 377,121 | 6,334 |
| Foreign exchange risk(*1) | | 13,725 | (18,786) | (5,061) |
| | ₩ | <u>(357,062)</u> | <u>358,335</u> | <u>1,273</u> |
| | | 2018 | | |
| | | Gains (losses) on fair value hedges (hedged items) | Gains (losses) 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) |
| | ₩ | <u>(21,385)</u> | <u>19,255</u> | <u>(2,130)</u> |

(*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.

| | | 2019 | | |
|--|---|---|---|---|
| | | Gains (losses) 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 | | | | |
| Interest rate risk(*1) | ₩ | (11,126) | - | - |
| Foreign exchange risk(*1) | | 52,932 | (25,709) | (57,870) |
| Discontinuation of cash flow hedges | | (7,986) | - | 7,986 |
| Hedge of net investments | | | | |
| Foreign exchange risk(*1) | | (49,463) | (2,327) | - |
| | ₩ | <u>(15,643)</u> | <u>(28,036)</u> | <u>(49,884)</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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10. Derivatives (continued)

(d) Impact of hedge accounting on the consolidated financial statements (continued)

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 (continued):

| | | 2018 | | |
|---------------------------------|---|--|---|---|
| | | 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 | | | | |
| Interest rate risk(*1) | ₩ | (23,186) | - | - |
| Foreign exchange risk(*1) | | 65,386 | (5,188) | 70,051 |
| Hedge of net investments | | | | |
| Foreign exchange risk(*1) | | (35,879) | (3,765) | - |
| | ₩ | <u>6,321</u> | <u>(8,953)</u> | <u>70,051</u> |

(*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.

(e) Nominal values and average hedge ratio for derivatives as of December 31, 2019 and December 31, 2018 were as follows:

| | | 2019 | | | | | | |
|-----------------------|---|---------------------|--------------|--------------|--------------|--------------|-------------------------|------------|
| | | Less than 1 year | 1~2 years | 2~3 years | 3~4 years | 4~5 years | More than 5 years | Total |
| Interest risk: | | | | | | | | |
| Nominal values: | ₩ | 750,469 | 704,985 | 717,948 | 1,228,424 | 575,481 | 6,114,325 | 10,091,632 |
| Average hedge ratio: | | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| Exchange risk: | | | | | | | | |
| Nominal values: | | 3,651,118 | 1,075,886 | 1,269,520 | 968,770 | 84,275 | 534,898 | 7,584,467 |
| Average hedge ratio: | | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| | | 2018 | | | | | | |
| | | Less than 1 year | 1~2 years | 2~3 years | 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% |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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10. Derivatives (continued)

(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

| | | 2019 | | | |
|---|---|----------------|-------------------------------|-------------------------------------|--|
| | | Nominal amount | Carrying value of asset(*) | Carrying value of liabilities(*) | Changes if fair value in the period |
| Fair value hedges | | | | | |
| | ₩ | 9,371,632 | 154,586 | 210,079 | - |
| | | - | - | 248 | (1,813) |
| | | 261,486 | 776 | 1,358 | (582) |
| Cash flow hedge | | | | | |
| | | 720,000 | - | 22,412 | (11,126) |
| | | 4,532,114 | 74,240 | 48,148 | (29,829) |
| | | 1,376,472 | 11,854 | 19,763 | (4,426) |
| Hedge of net investments in foreign operations | | | | | |
| | | 231,560 | 1,750 | - | (4,036) |
| | | 1,182,835 | - | 1,177,897 | (47,755) |
| | | 2018 | | | |
| | | Nominal amount | Carrying value of asset(*) | Carrying value of liabilities(*) | Changes if fair value in the period |
| Fair value hedges | | | | | |
| | ₩ | 9,377,731 | 35,093 | 467,381 | 55,244 |
| | | 33,543 | 433 | - | (1,502) |
| Cash flow hedge | | | | | |
| | | 770,000 | 38 | 15,853 | (23,186) |
| | | 4,110,285 | 21,543 | 79,492 | (54) |
| | | 1,298,686 | 3,191 | 24,925 | (33,460) |
| Hedge of net investments in foreign operations | | | | | |
| | | 223,620 | 5,994 | 5,572 | (3,261) |
| | | 1,192,645 | - | 1,186,792 | (36,383) |

(*) The related account categories are presented as interest rate swap assets / liabilities and currency forwards

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

10. Derivatives (continued)

(f) Effect of hedge accounting on financial statement, statement of comprehensive income, statement of changes in equity (continued)

iii) Effect of hedging items on statement financial position, statement of comprehensive income, statement of changes in equity

| | | 2019 | | | | | | |
|---|---|----------------------------|----------------------------------|--|---|-----------------------------------|-------------------------|--------------------------------------|
| | | Carrying value of asset(*) | Carrying value of liabilities(*) | Assets of Cumulative fair value hedge adjustment | Liabilities of Cumulative fair value hedge adjustment | Changes if fair value in the year | Cash flow hedge reserve | Foreign currency conversion reserves |
| Fair value hedges | | | | | | | | |
| Interest rate risk | ₩ | 432,172 | 8,859,022 | 4,846 | (56,292) | (308,463) | - | - |
| Foreign exchange risk | | 306,638 | - | - | - | 1,671 | - | - |
| Cash flow hedge | | | | | | | | |
| Interest rate risk | | 645,723 | 1,740,000 | - | - | (11,126) | 80,674 | - |
| Foreign exchange risk | | 4,116,068 | 3,035,423 | - | - | 115,867 | (11,188) | - |
| Hedge of net investments in foreign operations | | | | | | | | |
| Foreign exchange risk | | - | - | - | - | (49,463) | - | (88,953) |
| | | 2018 | | | | | | |
| | | Carrying value of asset(*) | Carrying value of liabilities(*) | Assets of Cumulative fair value hedge adjustment | Liabilities of Cumulative fair value hedge adjustment | Changes if fair value in the year | 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 |

(*) The related account categories are presented as interest rate swap assets / liabilities and currency forwards.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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11. 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, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|--------------------------------------|----------------------|-------------------|
| Securities at FVOCI: | | |
| Debt securities: | | |
| Government bonds | ₩ 17,597,910 | 8,975,391 |
| Financial institutions bonds | 21,527,242 | 17,341,330 |
| Corporate bonds and others | 19,447,942 | 11,360,924 |
| | <u>58,573,094</u> | <u>37,677,645</u> |
| Equity securities(*): | | |
| Stocks | 728,311 | 630,010 |
| Equity investments | 5,356 | 6,515 |
| Others | 74,292 | - |
| | <u>807,959</u> | <u>636,525</u> |
| | <u>59,381,053</u> | <u>38,314,170</u> |
| Securities at amortized cost: | | |
| Debt securities: | | |
| Government bonds | 30,385,084 | 18,000,454 |
| Financial institutions bonds | 4,770,204 | 2,171,623 |
| Corporate bonds and others | 10,426,777 | 8,306,059 |
| | <u>45,582,065</u> | <u>28,478,136</u> |
| | <u>₩ 104,963,118</u> | <u>66,792,306</u> |

(*) 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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

11. 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 years ended December 31, 2019 and 2018 are as follows:

| | | 2019 | | | | | |
|---|---|---|-----------------------------------|--------------|-----------------------------------|-----------------------------------|-------------|
| | | Securities at fair value through other comprehensive income | | | Securities at amortized cost | | |
| | | 12 months expected credit loss | Life time expected credit loss | Total | 12 months expected credit loss | Life time expected credit loss | Total |
| Beginning allowance | ₩ | 37,571,814 | 105,831 | 37,677,645 | 28,464,921 | 22,475 | 28,487,396 |
| Transfer to 12 months expected credit loss | | 34,555 | (34,555) | - | 20,198 | (20,198) | - |
| Transfer to life time expected credit loss | | (64,928) | 64,928 | - | - | - | - |
| Transfer to impaired financial asset | | - | - | - | - | - | - |
| Purchase | | 46,847,222 | 61,410 | 46,908,632 | 12,209,898 | - | 12,209,898 |
| Disposal | | (16,109,006) | (10,222) | (16,119,228) | - | - | - |
| Repayment | | (21,129,182) | - | (21,129,182) | (6,722,560) | - | (6,722,560) |
| Others (*) | | 230,733 | 51,702 | 282,435 | 322,107 | 20,995 | 343,102 |
| Business combination (Note 47) | | 10,952,792 | - | 10,952,792 | 11,273,999 | - | 11,273,999 |
| Ending balance | ₩ | 58,334,000 | 239,094 | 58,573,094 | 45,568,563 | 23,272 | 45,591,835 |

(*) Included the effects from changing currency rate, amortization of fair value adjustments recognized through business combination accountings.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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11. 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 years ended December 31, 2019 and 2018 are as follows (continued):

| | | 2018 | | | | | |
|---|---|---|-----------------------------------|--------------|-----------------------------------|-----------------------------------|-------------|
| | | Securities at fair value through other comprehensive income | | | Securities at amortized cost | | |
| | | 12 months expected credit loss | Life time expected credit loss | Total | 12 months 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 months expected credit loss | | - | - | - | - | - | - |
| Transfer to life time expected credit loss | | (26,187) | 26,187 | - | - | - | - |
| Transfer to impaired financial asset | | - | - | - | - | - | - |
| Purchase | | 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 (*) | | 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 |

(*) Included the effects from changing currency rate.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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11. Securities at fair value through other comprehensive income and securities at amortized cost (continued)

(c) Changes in allowance for credit loss of debt securities at fair value through other comprehensive income and securities at amortized cost for the years ended December 31, 2019 and 2018 are as follows:

| | | 2019 | | | | | |
|---|---|---|-----------------------------------|---------|-----------------------------------|-----------------------------------|-------|
| | | Securities at fair value through other comprehensive income | | | Securities at amortized cost | | |
| | | 12 months expected credit loss | Life time expected credit loss | Total | 12 months expected credit loss | Life time expected credit loss | Total |
| Beginning allowance | ₩ | 25,722 | 362 | 26,084 | 9,243 | 17 | 9,260 |
| Transfer to 12 months expected credit loss | | 33 | (33) | - | 4,301 | (4,301) | - |
| Transfer to life time expected credit loss | | (60) | 60 | - | - | - | - |
| Transfer to impaired financial asset | | - | - | - | - | - | - |
| Provision (reversal) | | 8,403 | (2,616) | 5,787 | (3,752) | 4,295 | 543 |
| Disposal | | (5,340) | (258) | (5,598) | - | - | - |
| Others (*) | | (1,177) | 3,140 | 1,963 | (33) | - | (33) |
| Ending balance | ₩ | 27,581 | 655 | 28,236 | 9,759 | 11 | 9,770 |

(*) Included the effects from changing currency rate, restructuring, bond-equity swap.

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11. Securities at fair value through other comprehensive income and securities at amortized cost (continued)

(c) Changes in allowance for credit loss of debt securities at fair value through other comprehensive income and securities at amortized cost for the years ended December 31, 2019 and 2018 are as follows:

| | | 2018 | | | | | |
|---|---|---|-----------------------------------|---------|-----------------------------------|-----------------------------------|---------|
| | | Securities at fair value through other comprehensive income | | | Securities at amortized cost | | |
| | | 12 months expected credit loss | Life time expected credit loss | Total | 12 months 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 months expected credit loss | | - | - | - | - | - | - |
| Transfer to life time expected credit loss | | (234) | 234 | - | - | - | - |
| Transfer to impaired financial asset | | - | - | - | - | - | - |
| Provision (reversal) | | 15,286 | (3,220) | 12,066 | 4,615 | (2,215) | 2,400 |
| Disposal | | (5,251) | (229) | (5,480) | - | - | - |
| Others (*) | | (1,117) | 1,639 | 522 | (1,699) | - | (1,699) |
| Ending balance | ₩ | 25,722 | 362 | 26,084 | 9,243 | 17 | 9,260 |

(*) Included the effects from changing currency rate.

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11. 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 years ended December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|--|------------------|---------------|
| Gain on disposal of securities at FVOCI | ₩ 159,883 | 28,018 |
| Loss on disposal of securities at FVOCI | (7,605) | (7,464) |
| Gain on disposal of securities at amortized cost (*) | 86 | - |
| Loss on disposal of securities at amortized cost (*) | (20) | (9) |
| | <u>₩ 152,344</u> | <u>20,545</u> |

(*) The issuers of those securities have exercised the early redemption options.

(e) Income or loss on equity securities at fair value through other comprehensive income

As of December 31, 2019 and 2018, the Group recognizes dividends amounting to ₩16,586 million and ₩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:

| | <u>2019</u> | <u>2018</u> |
|---|-------------|-------------|
| Fair value at the date of disposal | ₩ 45,074 | 3,285 |
| Cumulative net loss at the time of disposal | (10,843) | (3,635) |

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(In millions of won)

12. Loans at amortized cost

(a) Loans at amortized cost as of December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|---------------------------------|----------------------|--------------------|
| Household loans | ₩ 134,423,473 | 120,832,081 |
| Corporate loans | 161,029,877 | 152,164,476 |
| Public and other loans | 3,311,735 | 2,831,026 |
| Loans to banks | 2,633,532 | 3,585,563 |
| Credit card receivables | 24,024,491 | 22,447,614 |
| | <u>325,423,108</u> | <u>301,860,760</u> |
| Discount | (27,824) | (23,588) |
| Deferred loan origination costs | 534,530 | 497,368 |
| | <u>325,929,814</u> | <u>302,334,540</u> |
| Less: Allowance for credit loss | (2,684,835) | (2,725,068) |
| | <u>₩ 323,244,979</u> | <u>299,609,472</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

12. Loans at amortized cost (continued)

(b) Changes in carrying value of loans at amortized cost and other assets as of December 31, 2019 and 2018 are as follows:

i) Loans at amortized cost

| | 2019 | | | | | | | | | | | | Total |
|---|--------------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------------|--------------------------|---------------|
| | Retail | | | Corporate | | | Credit card | | | Others | | | |
| | 12 months expected credit loss | Life time expected credit loss | Impaired financial asset | 12 months expected credit loss | Life time expected credit loss | Impaired financial asset | 12 months expected credit loss | Life time expected credit loss | Impaired financial asset | 12 months expected credit loss | Life time expected credit loss | Impaired financial asset | |
| Beginning balance | ₩ 114,279,870 | 6,820,058 | 348,722 | 129,468,766 | 21,782,590 | 919,381 | 18,155,156 | 3,830,509 | 413,175 | 5,695,187 | 605,440 | 15,686 | 302,334,540 |
| Transfer (from) to 12 months expected credit losses | 2,619,036 | (2,614,416) | (4,620) | 4,093,725 | (4,088,373) | (5,352) | 320,288 | (320,129) | (159) | 37,430 | (37,430) | - | - |
| Transfer (from) to lifetime expected credit losses | (5,385,659) | 5,406,091 | (20,432) | (16,484,206) | 16,597,346 | (113,140) | (603,069) | 603,280 | (211) | (210,161) | 210,333 | (172) | - |
| Transfer (from) to credit-impaired financial assets | (627,950) | (43,168) | 671,118 | (1,088,270) | (76,177) | 1,164,447 | (36,483) | (22,473) | 58,956 | (39,844) | - | 39,844 | - |
| Origination | 51,784,970 | 25,296 | 4,469 | 75,800,467 | 480,163 | 2,485 | 1,647,393 | 315,643 | 305,487 | 5,495,139 | - | - | 135,861,512 |
| Collection | (38,870,803) | (1,814,003) | (238,174) | (56,902,113) | (9,966,512) | (395,670) | (59,799) | (5,328) | 253 | (5,949,565) | (149,802) | (11,979) | (114,363,495) |
| Charge off | - | - | (257,742) | - | - | (259,400) | - | - | (332,862) | - | - | (8,718) | (858,722) |
| Disposal | - | (5,122) | (108,624) | (273,058) | (3,806) | (283,747) | - | - | - | - | - | (18,398) | (692,755) |
| Others (*1) | 320,096 | 88,420 | 10,744 | 583,534 | (80,749) | (50,283) | (3,880) | (276,926) | (404) | 139,207 | 927 | - | 730,686 |
| Business combination (Note 47) | 2,466,991 | 7,752 | 10,431 | 392,828 | 17,180 | 22,866 | - | - | - | - | - | - | 2,918,048 |
| Ending balance | ₩ 126,586,551 | 7,870,908 | 415,892 | 135,591,673 | 24,661,662 | 1,001,587 | 19,419,606 | 4,124,576 | 444,235 | 5,167,393 | 629,468 | 16,263 | 325,929,814 |

(*1) Other changes are due to restructuring, debt-equity swap and exchange rate fluctuations.

(*2) The amount of uncollected loans currently in recovery (principal and interest) is ₩10,155,562 million, which is written off as of December 31, 2019.

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(In millions of won)

12. Loans at amortized cost (continued)

(b) Changes in carrying value of loans at amortized cost and other assets as of December 31, 2019 and 2018 are as follows (continued):

ii) Other financial assets

| | 2019 | | | Total |
|--|-------------------------------------|--------------------------------------|-----------------------------|-------------------|
| | 12 month expected credit loss | Life time expected credit loss | Impaired financial asset | |
| Beginning balance | ₩ 31,508,694 | 99,461 | 32,003 | 31,640,158 |
| Transfer (from) to 12 month expected credit losses | 12,685 | (12,675) | (10) | - |
| Transfer (from) to lifetime expected credit losses | (253,546) | 253,575 | (29) | - |
| Transfer (from) to credit- impaired financial assets | (3,124) | (5,324) | 8,448 | - |
| Origination | 62,331,232 | 29,315 | 27,281 | 62,387,828 |
| Collection | (51,845,962) | (259,371) | (2,036) | (52,107,369) |
| Charge off | - | - | (29,456) | (29,456) |
| Disposal (*2) | (182,212) | (3) | (1,062) | (183,277) |
| Others (*3) | 261,019 | 42 | - | 261,061 |
| Business combination (Note 47) | 1,416,216 | 1,497 | 10,826 | 1,428,539 |
| Ending balance | ₩ <u>43,245,002</u> | <u>106,517</u> | <u>45,965</u> | <u>43,397,484</u> |

(*1) The amortized cost includes the gross carrying amount of deposits and other assets.

(*2) Included the disposal amount of financial instruments for the purpose of collecting loans for credit concentration risk management of non-current assets, which recognized gains of ₩13,317 million.

(*3) Other changes are due to restructuring, debt-equity swap and exchange rate fluctuations.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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(In millions of won)

12. Loans at amortized cost (continued)

(b) Changes in carrying value of loans at amortized cost and other assets as of December 31, 2019 and 2018 are as follows (continued):

i) Loans at amortized cost

| | 2018 | | | | | | | | | | | | | Total |
|---|--------------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------------|--------------------------|---------------|-------|
| | Retail | | | Corporate | | | Credit cards | | | Others | | | | |
| | 12 months expected credit loss | Life time expected credit loss | Impaired financial asset | 12 months expected credit loss | Life time expected credit loss | Impaired financial asset | 12 months expected credit loss | Life time expected credit loss | Impaired financial asset | 12 months expected credit loss | Life time expected credit loss | Impaired financial asset | | |
| Beginning balance | ₩ 104,325,268 | 7,345,842 | 301,838 | 119,852,620 | 18,455,422 | 1,084,348 | 16,467,623 | 3,743,265 | 385,252 | 4,665,298 | 486,090 | 13,163 | 277,126,029 | |
| Transfer (from) to 12 months expected credit losses | 3,406,566 | (3,402,543) | (4,023) | 3,736,019 | (3,734,730) | (1,289) | 318,142 | (318,025) | (117) | 71,381 | (71,381) | - | - | |
| Transfer (from) to lifetime expected credit losses | (4,920,514) | 4,935,853 | (15,339) | (15,002,047) | 15,051,204 | (49,157) | (587,777) | 588,002 | (225) | (366,998) | 366,998 | - | - | |
| Transfer (from) to credit-impaired financial assets | (536,996) | (36,489) | 573,485 | (1,349,787) | (114,560) | 1,464,347 | (37,526) | (25,522) | 63,048 | (24,068) | (8,557) | 32,625 | - | |
| Origination | 47,789,131 | 34,200 | 5,396 | 75,450,183 | 386,318 | 9,260 | 2,633,086 | 6,285 | 181,250 | 5,244,411 | - | - | 131,739,520 | |
| Collection | (35,972,892) | (2,046,703) | (215,294) | (53,902,860) | (8,365,144) | (758,426) | (74,777) | (120,969) | (1,511) | (3,988,422) | (169,909) | (12,980) | (105,629,887) | |
| Charge off | - | - | (227,787) | - | - | (312,841) | - | - | (308,202) | - | - | (2,567) | (851,397) | |
| Disposal | (42,664) | (3,059) | (74,664) | (79,250) | (15,997) | (493,273) | - | - | - | - | - | (14,555) | (723,462) | |
| Others (*1) | 231,971 | (7,043) | 5,110 | 763,888 | 120,077 | (23,588) | (563,615) | (42,527) | 93,680 | 93,585 | 2,199 | - | 673,737 | |
| Ending balance | ₩ 114,279,870 | 6,820,058 | 348,722 | 129,468,766 | 21,782,590 | 919,381 | 18,155,156 | 3,830,509 | 413,175 | 5,695,187 | 605,440 | 15,686 | 302,334,540 | |

(*1) Other changes are due to restructuring, debt-equity swap and exchange rate fluctuations.

(*2) The amount of uncollected loans currently in recovery (principal and interest) is ₩9,597,389 million, which is written off as of December 31, 2018.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

12. Loans at amortized cost (continued)

(b) Changes in carrying value of loans at amortized cost and other assets as of December 31, 2019 and 2018 are as follows (continued):

ii) Other financial assets

| | | 2018 | | | |
|--|---|---|---|-------------------------------------|-------------------|
| | | 12 months expected credit loss | Life time expected credit loss | Impaired financial asset | Total |
| Beginning balance | ₩ | 31,599,203 | 456,538 | 23,243 | 32,078,984 |
| Transfer (from) to 12 months expected credit losses | | 28,028 | (28,024) | (4) | - |
| Transfer (from) to lifetime expected credit losses | | (51,596) | 51,607 | (11) | - |
| Transfer (from) to credit- impaired financial assets | | (22,162) | (2,986) | 25,148 | - |
| Origination | | 30,085,141 | 27,251 | 21,930 | 30,134,322 |
| Collection | | (30,207,574) | (410,559) | (4,236) | (30,622,369) |
| Charge off | | - | - | (20,984) | (20,984) |
| Disposal | | - | (495) | (13,083) | (13,578) |
| Others (*2) | | 77,654 | 6,129 | - | 83,783 |
| Ending balance | ₩ | <u>31,508,694</u> | <u>99,461</u> | <u>32,003</u> | <u>31,640,158</u> |

(*1) The amortized cost includes the gross carrying amount of deposits and other assets.

(*2) Other changes are due to restructuring, debt-equity swap and exchange rate fluctuations.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

12. 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, 2019 and 2018 are as follows:

i) Loans at amortized cost

| | 2019 | | | | | | | | | | | | Total |
|---|-------------------------------|--------------------------------|--------------------------|-------------------------------|--------------------------------|--------------------------|-------------------------------|--------------------------------|--------------------------|-------------------------------|--------------------------------|--------------------------|-----------|
| | Retail | | | Corporate | | | Credit cards | | | Others | | | |
| | 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 | 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 | ₩ 115,295 | 88,360 | 156,459 | 434,793 | 581,915 | 519,683 | 170,242 | 351,765 | 280,098 | 10,670 | 5,882 | 9,906 | 2,725,068 |
| Transfer (from) to 12 months expected credit losses | 18,079 | (17,592) | (487) | 50,720 | (48,295) | (2,425) | 55,815 | (55,712) | (103) | 757 | (757) | - | - |
| Transfer (from) to lifetime expected credit losses | (9,411) | 17,342 | (7,931) | (35,790) | 118,605 | (82,815) | (20,607) | 20,756 | (149) | (159) | 289 | (130) | - |
| Transfer (from) to credit-impaired financial assets | (942) | (3,739) | 4,681 | (565) | (13,332) | 13,897 | (1,250) | (3,916) | 5,166 | - | - | - | - |
| Provision (reversal) | (7,751) | 19,130 | 214,260 | (43,230) | (31,265) | 277,436 | 57,062 | 280,047 | 147,332 | (4,067) | 1,907 | 37 | 910,898 |
| Charge off | - | - | (257,742) | - | - | (259,400) | - | - | (332,862) | - | - | (8,718) | (858,722) |
| Amortization of discount | - | - | (274) | - | - | (19,396) | - | - | (5,541) | - | - | - | (25,211) |
| Disposal | - | (241) | (21,561) | (6) | (245) | (30,436) | - | - | - | - | - | (820) | (53,309) |
| Collection | - | - | 70,319 | - | - | 62,973 | - | - | 190,738 | - | - | 1,876 | 325,906 |
| Others (*) | 2,484 | (15,353) | 4,522 | 13,810 | (76,711) | (27,910) | (75,933) | (208,284) | (682) | 300 | 160 | - | (383,597) |
| Business combination (Note 47) | 15,658 | 3,118 | 6,792 | 20 | 614 | 17,600 | - | - | - | - | - | - | 43,802 |
| Ending balance | ₩ 133,412 | 91,025 | 169,038 | 419,752 | 531,286 | 469,207 | 185,329 | 384,656 | 283,997 | 7,501 | 7,481 | 2,151 | 2,684,835 |

(*) Other changes are due to restructuring, debt-equity swap and exchange rate fluctuations.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

12. 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, 2019 and 2018 are as follows (continued):

ii) Other financial assets

| | 2019 | | | |
|--|--------------------------------------|--------------------------------------|-----------------------------|---------------|
| | 12 months expected credit loss | Life time expected credit loss | Impaired financial asset | Total |
| Beginning balance | ₩ 39,927 | 6,930 | 24,764 | 71,621 |
| Transfer (from) to 12 months expected credit losses | 458 | (453) | (5) | - |
| Transfer (from) to lifetime expected credit losses | (231) | 244 | (13) | - |
| Transfer (from) to credit- impaired financial assets | (172) | (2,310) | 2,482 | - |
| Provision | 2,822 | 2,667 | 28,456 | 33,945 |
| Charge off | - | - | (29,456) | (29,456) |
| Collection | - | - | 1,873 | 1,873 |
| Others (*2) | (9,738) | 9 | 435 | (9,294) |
| Business combination (Note 47) | 921 | 185 | 9,054 | 10,160 |
| Ending balance | ₩ <u>33,987</u> | <u>7,272</u> | <u>37,590</u> | <u>78,849</u> |

(*1) The amortized cost includes the gross carrying amount of deposits and other assets.

(*2) Other changes are due to restructuring, debt-equity swap and exchange rate fluctuations

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

12. 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, 2019 and 2018 are as follows (continued):

i) Loans at amortized cost

| | 2018 | | | | | | | | | | | | Total |
|---|--------------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------------|--------------------------|-----------|
| | Retail | | | Corporate | | | Credit cards | | | Others (*) | | | |
| | 12 months expected credit loss | Life time expected credit loss | Impaired financial asset | 12 months expected credit loss | Life time expected credit loss | Impaired financial asset | 12 months expected credit loss | Life time expected credit loss | Impaired financial asset | 12 months expected credit loss | Life time expected credit loss | Impaired financial asset | |
| Beginning balance | ₩ 88,167 | 125,362 | 160,536 | 472,685 | 624,730 | 609,925 | 160,478 | 335,170 | 278,759 | 9,283 | 2,997 | 3,894 | 2,871,986 |
| Transfer (from) to 12 month expected credit losses | 45,985 | (45,516) | (469) | 49,898 | (49,552) | (346) | 57,848 | (57,814) | (34) | 433 | (433) | - | - |
| Transfer (from) to lifetime expected credit losses | (5,862) | 11,415 | (5,553) | (43,180) | 79,567 | (36,387) | (19,671) | 19,687 | (16) | (221) | 221 | - | - |
| Transfer (from) to credit-impaired financial assets | (750) | (3,551) | 4,301 | (798) | (34,627) | 35,425 | (1,288) | (3,793) | 5,081 | (4) | (140) | 144 | - |
| Provision (reversal) | (10,735) | 369 | 169,495 | (49,962) | (43,876) | 203,667 | 122,112 | 132,670 | 166,338 | 1,165 | 3,229 | 10,043 | 704,515 |
| Charge off | - | - | (227,787) | - | - | (312,841) | - | - | (308,202) | - | - | (2,567) | (851,397) |
| Amortization of discount | - | - | (218) | - | - | (17,653) | - | - | (2,907) | - | - | - | (20,778) |
| Disposal | (302) | (17) | (4,242) | (334) | (357) | (52,871) | - | - | - | - | - | (2,454) | (60,577) |
| Collection | - | - | 57,065 | - | - | 78,249 | - | - | 175,120 | - | - | 846 | 311,280 |
| Others (*) | (1,208) | 298 | 3,331 | 6,484 | 6,030 | 12,515 | (149,237) | (74,155) | (34,041) | 14 | 8 | - | (229,961) |
| Ending balance | ₩ 115,295 | 88,360 | 156,459 | 434,793 | 581,915 | 519,683 | 170,242 | 351,765 | 280,098 | 10,670 | 5,882 | 9,906 | 2,725,068 |

(*) Other changes are due to restructuring, debt-equity swap and exchange rate fluctuations.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

12. 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, 2019 and 2018 are as follows (continued):

ii) Other financial assets

| | 2018 | | | |
|--|--------------------------------------|--------------------------------------|-----------------------------|----------|
| | 12 months expected credit loss | Life time expected credit loss | Impaired financial asset | Total |
| Beginning balance | ₩ 39,048 | 7,666 | 20,166 | 66,880 |
| Transfer (from) to 12 months expected credit losses | 581 | (578) | (3) | - |
| Transfer (from) to lifetime expected credit losses | (212) | 222 | (10) | - |
| Transfer (from) to credit- impaired financial assets | (94) | (2,209) | 2,303 | - |
| Provision (reversal) | (1,998) | 1,775 | 24,293 | 24,070 |
| Charge off | - | - | (20,984) | (20,984) |
| Disposal | - | (7) | (2,736) | (2,743) |
| Collection | - | - | 1,815 | 1,815 |
| Others (*2) | 2,602 | 61 | (80) | 2,583 |
| Ending balance | ₩ 39,927 | 6,930 | 24,764 | 71,621 |

(*1) The amortized cost includes the gross carrying amount of deposits and other assets.

(*2) Other changes are due to restructuring, debt-equity swap and exchange rate fluctuations.

(d) Changes in deferred loan origination costs for the years ended December 31, 2019 and 2018 are as follows:

| | 2019 | 2018 |
|--------------------------------|-----------|-----------|
| Beginning balance | ₩ 497,368 | 434,746 |
| Loan origination | 232,943 | 235,032 |
| Amortization | (208,998) | (172,410) |
| Business combination (Note 47) | 13,217 | - |
| Ending balance | ₩ 534,530 | 497,368 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

13. Property and equipment

(a) Details of property and equipment as of December 31, 2019 and 2018 are as follows:

| | | 2019 | | |
|---------------------|---|-------------------------|---------------------------------|-----------------------|
| | | Acquisition cost | Accumulated depreciation | Carrying value |
| Land | ₩ | 1,815,112 | - | 1,815,112 |
| Buildings | | 1,167,514 | (377,065) | 790,449 |
| Right-of-use assets | | 1,357,206 | (244,410) | 1,112,796 |
| Others | | 2,130,805 | (1,765,834) | 364,971 |
| | ₩ | <u>6,470,637</u> | <u>(2,387,309)</u> | <u>4,083,328</u> |
| | | 2018 | | |
| | | Acquisition cost | Accumulated depreciation | Carrying 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 |
| | ₩ | <u>5,004,354</u> | <u>(2,000,468)</u> | <u>3,003,886</u> |

(b) Changes in property and equipment for the years ended December 31, 2019 and 2018 are as follows:

| | | 2019 | | | | |
|---|---|------------------|------------------|--|----------------|------------------|
| | | Land | Buildings | Right-of-use assets (Note 18) | Others | Total |
| Beginning balance(*1) | ₩ | 1,827,711 | 852,569 | 583,576 | 313,853 | 3,577,709 |
| Acquisitions(*2) | | 69,045 | 16,946 | 805,783 | 184,630 | 1,076,404 |
| Disposals(*2) | | (249) | (1,719) | (12,595) | (29,081) | (43,644) |
| Depreciation | | - | (55,450) | (298,538) | (125,669) | (479,657) |
| Amounts transferred from(to) investment property | | (81,311) | (23,262) | - | - | (104,573) |
| Amounts transferred from(to) intangible assets | | - | - | - | 271 | 271 |
| Amounts transferred from(to) non-current assets held for sale(*3) | | (410) | (45) | - | - | (455) |
| Effects of foreign currency movements | | 326 | 1,410 | 2,981 | 9,314 | 14,031 |
| Business combination (Note 47) | | - | - | 31,589 | 11,653 | 43,242 |
| Ending balance | ₩ | <u>1,815,112</u> | <u>790,449</u> | <u>1,112,796</u> | <u>364,971</u> | <u>4,083,328</u> |

(*1) The 9,753 million is transferred from other property and equipment to right-of-use assets due to the adoption of K-IFRS No. 1116.

(*2) ₩76,004 million transferred from construction-in progress was included.

(*3) Included buildings, and land.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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December 31, 2019 and 2018

(In millions of won)

13. Property and equipment (continued)

(b) Changes in property and equipment for the years ended December 31, 2019 and 2018 are as follows (continued):

| | | 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) |
| Amounts transferred from(to) investment properties | | 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 | ₩ | <u>1,827,711</u> | <u>852,569</u> | <u>323,606</u> | <u>3,003,886</u> |

(*1) ₩6,319 million transferred from construction-in progress was included.

(*2) Included buildings, land.

(c) Insured assets and liability insurance as of December 31, 2019 are as follows:

| | | 2019 | |
|--|---|----------------|---|
| 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 | 1,315,820 | Samsung Fire & Marine Insurance Co., Ltd., etc. |
| Fire insurance | Business property and real estate | 22,141 | Meritz Fire & Marine Insurance Co., Ltd., etc. |
| Compensation liability insurance for officers | Officer liability | 60,000 | Meritz Fire & Marine Insurance Co., Ltd., etc. |
| Compensation liability insurance for employee accident | Executives | 70,841 | Meritz Fire & Marine Insurance Co., Ltd., etc. |
| Burglary insurance | Cash and securities | 87,015 | Samsung Fire & Marine Insurance Co., Ltd., etc. |
| Others | Personal information liability insurance etc. | 28,730 | Samsung Fire & Marine Insurance Co., Ltd. |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

14. Intangible assets

(a) Details of intangible assets as of December 31, 2019 and 2018 were as follows:

| | | <u>2019</u> | <u>2018</u> |
|------------------|---|------------------|------------------|
| Goodwill | ₩ | 4,690,049 | 3,903,518 |
| Software | | 129,235 | 102,393 |
| Development cost | | 144,100 | 82,536 |
| Others | | 595,330 | 231,687 |
| | ₩ | <u>5,558,714</u> | <u>4,320,134</u> |

(b) Changes in intangible assets for the years ended December 31, 2019 and 2018 are as follows:

| | | <u>2019</u> | | | | |
|---|---|------------------|-----------------|-----------------------------|----------------|------------------|
| | | <u>Goodwill</u> | <u>Software</u> | <u>Development cost</u> | <u>Others</u> | <u>Total</u> |
| Beginning balance | ₩ | 3,903,518 | 102,393 | 82,536 | 231,687 | 4,320,134 |
| Acquisitions | | - | 56,834 | 71,713 | 675,070 | 803,617 |
| Business combination (Note 47) | | 786,531 | 9,469 | 30,435 | 44,850 | 871,285 |
| Disposals | | - | (428) | (1,310) | (16,476) | (18,214) |
| Amounts transferred from(to) property and equipment | | - | 697 | (968) | - | (271) |
| Impairment(*1)(*2) | | - | - | (474) | (151,169) | (151,643) |
| Amortization(*3) | | - | (40,578) | (37,832) | (189,533) | (267,943) |
| Effects of foreign currency movements | | - | 848 | - | 901 | 1,749 |
| Ending balance | ₩ | <u>4,690,049</u> | <u>129,235</u> | <u>144,100</u> | <u>595,330</u> | <u>5,558,714</u> |

(*1) The Group reviewed the recoverable value of intangible assets related to the rights to be the depository bank of local governments due to the performance below forecast and future prospects. For the year ended December 31, 2019, the impairment loss amounted to ₩151,523 million. The impairment loss was included in the non-operating expenses in the consolidated statement of comprehensive income.

(*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 in general administrative expense and other operating income of the consolidated statements of comprehensive income.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

14. Intangible assets

(b) Changes in intangible assets for the years ended December 31, 2019 and 2018 were as follows (continued):

| | 2018 | | | | |
|--|--------------------|-----------------|-----------------------------|----------------|------------------|
| | Goodwill | Software | Development cost | Others | Total |
| Beginning balance | ₩ 3,901,260 | 83,829 | 75,322 | 212,910 | 4,273,321 |
| Acquisitions | - | 56,009 | 38,230 | 69,501 | 163,740 |
| 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 |
| Business combination | 2,258 | - | - | - | 2,258 |
| Ending balance | ₩ <u>3,903,518</u> | <u>102,393</u> | <u>82,536</u> | <u>231,687</u> | <u>4,320,134</u> |

(*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 in general administrative expense and other operating income of the consolidated comprehensive income.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

14. Intangible asset (continued)

(c) Goodwill

i) Goodwill allocated in the Group's CGUs as of December 31, 2019 and 2018

| | <u>2019</u> | <u>2018</u> |
|--|--------------------|------------------|
| Banking | ₩ 810,058 | 810,058 |
| Credit card | 2,880,383 | 2,773,231 |
| Securities | 7,904 | 7,904 |
| Life insurance (Shinhan Life Insurance) | 275,371 | 275,371 |
| Life insurance (Orange Life Insurance Co., Ltd.) | 564,576 | - |
| Others | 151,757 | 36,954 |
| | <u>₩ 4,690,049</u> | <u>3,903,518</u> |

ii) Changes in goodwill for the years ended December 31, 2019 and 2018

| | <u>2019</u> | <u>2018</u> |
|---|--------------------|------------------|
| Beginning balance | ₩ 3,903,518 | 3,901,260 |
| Acquisitions through business combinations (*1)(*2) | 786,531 | 2,258 |
| Ending balance | <u>₩ 4,690,049</u> | <u>3,903,518</u> |

(*1) recognized as a result of the Group's acquisitions of Orange Life Insurance Co., Ltd. ("Orange Life"), Asia Trust Co., and the Shinhan Card's acquisition of the new business for the year ended December 31, 2019 (Note 47).

(*2) recognized as a result of the Shinhan Financial Investment Corp. acquisition of the new business for the year ended December 31, 2018.

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, 5.0~5.5 years of cash flow estimates were used in projection and the value thereafter was reflected as terminal value. 30 years and 60 years of cash flow estimates for Shinhan Life and Orange Life, respectively were applied and the present value of the future cash flows thereafter is not considered as it is insignificant.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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(In millions of won)

14. Intangible assets, net (continued)

- 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.

Discount rates and terminal growth rates applied to each CGU are as follows:

| | <u>Discount rates(%)</u> | <u>Terminal growth rate(%)</u> |
|--|--------------------------|--------------------------------|
| Banking | 8.3 ~ 13.9 | 1.0 ~ 3.0 |
| Credit card | 8.9 ~ 13.3 | 1.0 ~ 3.0 |
| Securities | 12.1 ~ 13.3 | 3.0 |
| Life insurance (Shinhan Life Insurance) | 8.0 | - |
| Life insurance (Orange Life Insurance Co., Ltd.) | 8.0 | - |
| Others | 9.2 ~ 14.0 | 1.0 |

iv) Key assumptions

Key assumptions used in the discounted cash flow calculations of CGUs (other than life insurance components) are as follows:

| | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> |
|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| CPI growth(%) | 0.7 | 1.1 | 1.6 | 1.8 | 1.7 | 1.7 |
| Private consumption growth(%) | 2.0 | 2.0 | 2.2 | 2.5 | 2.4 | 2.4 |
| Real GDP growth(%) | 1.9 | 2.2 | 2.4 | 2.7 | 2.6 | 2.6 |

Key assumptions used in the discounted cash flow calculations of life insurance components are as follows:

| | <u>Key assumptions</u> |
|---------------------------------|------------------------|
| Rate of return on investment(%) | 2.45 ~ 2.75 |
| Risk-based capital ratio(%) | 150.00 |

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:

| | <u>Amount</u> |
|--------------------------|--------------------|
| Total recoverable amount | ₩ 46,896,966 |
| Total carrying value | ₩ 41,902,106 |
| | <u>₩ 4,994,860</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

15. Investments in associates

(a) Investments in associates as of December 31, 2019 and December 31, 2018 are as follows:

| Investees | Country | Reporting date | Ownership (%) | |
|---|---------|----------------|---------------|-------|
| | | | 2019 | 2018 |
| BNP Paribas Cardif Life Insurance(*1),(*3) | Korea | September 30 | 14.99 | 14.99 |
| Songrim Partners.(*1),(*4) | “ | December 31 | 35.34 | 35.34 |
| Daewontos Co., Ltd.(*7) | “ | - | - | 36.33 |
| Neoplux Technology Valuation Investment Fund(*1) | “ | September 30 | 33.33 | 33.33 |
| Partners 4th Growth Investment Fund(*1) | “ | “ | 25.00 | 25.00 |
| KTB Newlake Global Healthcare PEF(*1) | “ | “ | 30.00 | 30.00 |
| JAEYANG INDUSTRY(*7) | “ | - | - | 25.90 |
| Daekwang Semiconductor Co., Ltd. (*1),(*4) | “ | September 30 | 20.94 | 20.94 |
| Shinhan-Neoplux Energy Newbiz Fund(*1) | “ | September 30 | 23.33 | 23.33 |
| Shinhan-Albatross tech investment Fund | “ | December 31 | 50.00 | 50.00 |
| KCLAVIS Meister Fund No.17 | “ | “ | 26.09 | 26.09 |
| Plutus-SG Private Equity Fund | “ | “ | 26.67 | 26.67 |
| SG ARGES Private Equity Fund No.1(*7) | “ | - | - | 24.06 |
| Eum Private Equity Fund No.3 | “ | December 31 | 20.76 | 20.76 |
| KTB Confidence Private Placement | “ | “ | 31.43 | 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 |
| VOGO Debt Strategy Qualified INV Private R/E INV TR 4 | “ | “ | 20.00 | 20.00 |
| Platform Partners brick save Private Investment trust(*7) | “ | - | - | 98.77 |
| Shinhan-Midas Donga Secondary Fund | “ | December 31 | 50.00 | 50.00 |
| ShinHan – Soo Young Entrepreneur Investment Fund No.1 | “ | “ | 24.00 | 24.00 |
| Synergy-Shinhan Mezzanine New Technology Investment Fund | “ | “ | 47.62 | 47.62 |
| Shinhan Praxis K-Growth Global Private Equity Fund(*5) | “ | “ | 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 EURO Green Private Real Estate Trust No.3 | “ | “ | 21.28 | 21.28 |
| Brain Professional Private Trust No.4(*7) | “ | - | - | 27.50 |
| Hanhwa US Equity Strategy Private Real Estate Fund No.1 | “ | December 31 | 44.84 | 44.84 |
| Brain KS Qualified Privately Placed Fund No.6(*7) | “ | - | - | 50.00 |
| Shinhan Global Healthcare Fund 1(*5) | “ | 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(*8) | “ | “ | 50.03 | 50.03 |
| KB NA Hickory Private Special Asset Fund | “ | “ | 37.50 | 37.50 |
| GB Professional Private Investment Trust 6(*7) | “ | - | - | 94.51 |
| Koramco Europe Core Private Placement Real Estate Fund No.2-2 | “ | December 31 | 44.02 | 44.02 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

15. Investments in associates (continued)

(a) Investments in associates as of December 31, 2019 and December 31, 2018 are as follows (continued):

| Investees | Country | Reporting date | Ownership (%) | |
|---|---------|----------------|---------------|-------|
| | | | 2019 | 2018 |
| SHBNPP Private Korea Equity Long-Short Professional Feeder(*10) | Korea | - | - | 21.52 |
| Shinhan-Stonebridge Petro PEF(*5) | " | December 31 | 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 |
| SHC ULMUS Fund No.1 | " | " | 29.41 | 29.41 |
| Shinhan-Nvestor Liquidity Solution Fund | " | " | 24.92 | 24.92 |
| Shinhan AIM FoF Fund 1a | " | " | 25.00 | 24.91 |
| Daishin Heim Qualified Investor Private Investment Trust No.1808(*7) | " | - | - | 34.48 |
| Heungkuk High Class Professional Trust Private Fund 37(*7) | " | - | - | 50.00 |
| IGIS Global Credit Fund 150-1 | " | December 31 | 25.00 | 25.11 |
| GX Shinhan Intervest 1st Private Equity Fund | " | " | 25.27 | 25.27 |
| Soo Commerce Platform Growth Fund | " | " | 24.62 | 24.62 |
| Partner One Value up I Private Equity Fund | " | " | 27.91 | 27.91 |
| Genesis No.1 Private Equity Fund | " | " | 22.80 | 22.80 |
| GMB ICT New Technology Investment Fund | " | " | 26.75 | 26.75 |
| Korea Omega Project Fund III | " | " | 23.53 | 23.53 |
| Soo Delivery Platform Growth Fund | " | " | 30.00 | 30.00 |
| Genesis North America Power Company No.1 PEF | " | " | 39.92 | 39.92 |
| Hyungje art printing(*1),(*4) | " | " | 31.54 | 31.54 |
| SHBNPP MAIN Professional Investment Type Private Mixed Asset Investment Trust No.3 | " | " | 23.33 | 23.33 |
| Shinhan-Rhinos 1 Fund | " | " | 22.48 | - |
| Pacific Private Investment Trust No.20 | " | " | 21.74 | - |
| Susung Mezzanine project P1 Private Investment Trust | " | " | 41.18 | - |
| Korea Finance Security (*1),(*9) | " | September 30 | 14.91 | - |
| MIEL CO.,LTD(*4) | " | December 31 | 28.77 | - |
| AIP Transportation Specialized Privately Placed Fund Trust #1 | " | " | 35.73 | - |
| Lime Neptune Professional Private 6 | " | " | 50.00 | - |
| PCC S/W 2nd Fund | " | " | 29.56 | - |
| E&Healthcare Investment Fund No.6(*5) | " | " | 20.37 | - |
| One Shinhan Global Fund 1(*5) | " | " | 19.98 | - |
| Kiwoom-Shinhan Innovation Fund I | " | " | 50.00 | - |
| Daishin-K&T New Technology Investment Fund | " | " | 31.25 | - |
| Midas Asset Global CRE Debt Private Fund No.6 | " | " | 20.05 | - |
| Richmond Private Investment Trust No.82(*6) | " | " | 60.00 | - |
| Tiger Alternative Real Estate Professional Private5 | " | " | 48.71 | - |
| Samchully Midstream Private Placement Special Asset Fund 5-4 | " | " | 42.92 | - |
| SHBNPP Senior Loan Professional Investment Type Private Mixed Asset Investment Trust No.3 | " | " | 20.00 | - |

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Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

15. Investments in associates (continued)

(a) Investments in associates as of December 31, 2019 and December 31, 2018 are as follows (continued):

| Investees | Country | Reporting date | Ownership (%) | |
|--|---------|----------------|---------------|------|
| | | | 2019 | 2018 |
| AUCTUS FITRIN Corporate Recovery Private Equity Fund | “ | “ | 21.43 | - |
| NH-Amundi Global Infrastructure Trust 14 | “ | “ | 30.00 | - |
| Pacific Private Real Estate Fund Investment Trust No.30 | “ | “ | 37.50 | - |
| Jarvis Memorial Private Investment Trust 1(*6) | “ | “ | 99.01 | - |
| Mastern Private Private Investment Trust 68(*6) | “ | “ | 53.76 | - |
| Vestas Qualified Investors Private Real Estate Fund Investment Trust No.37(*8) | “ | “ | 60.00 | - |
| Milestone Private Real Estate Fund 3 (Derivative Type) | “ | “ | 32.06 | - |
| IGIS Private Real Estate Investment Trust 286 (2 class) | “ | “ | 41.56 | - |
| Nomura-Rifa Private Real Estate Investment Trust 31 (2 class) | “ | “ | 31.31 | - |
| Lime Pricing Private Equity Fund | “ | “ | 25.85 | - |
| SHBNPP Senior Loan Professional Investment Type Private Mixed Asset Investment Trust No.2 | “ | “ | 21.27 | - |
| DS Solid.II Hedge Fund | “ | “ | 27.41 | - |
| Hana Semiconductor New Technology Fund | “ | “ | 24.30 | - |
| J&Magnet Startup Venture Specialized Private Equity Fund(*1) | “ | September 30 | 24.39 | - |
| Cape IT Fund No.3 | “ | December 31 | 32.89 | - |
| Vogo Realty Partners Private Real Estate Fund V | “ | “ | 21.64 | - |
| IL GU FARM CO.,LTD(*1)(*4) | - | “ | 28.47 | - |
| Korea Credit Bureau(*1)(*9) | “ | September 30 | 9.00 | - |
| SBC PFV Co., Ltd(*11) | “ | December 31 | 25.00 | - |
| Sprott Global Renewable Private Equity Fund II | “ | “ | 23.10 | - |
| NH-amundi global infra private fund 16 | “ | “ | 50.00 | - |
| IMM Global Private Equity Fund | “ | “ | 31.85 | - |
| HANA Alternative Estate Professional Private122(*8) | “ | “ | 75.19 | - |
| Hanwha-Incus Plus New Technology Fund No.1 | “ | “ | 42.64 | - |
| SHBNPP Corporate Professional Investment Type Private Security Investment Trust No.7[Bond] | “ | “ | 45.96 | - |
| SHBNPP BNCT Professional Investment Type Private Special Asset Investment Trust(*8) | “ | “ | 57.50 | - |
| PSA EMP Private Equity Fund | “ | “ | 28.99 | - |
| Deutsche Global Professional Investment Type Private Real Estate Investment Trust No. 24(*8) | “ | “ | 52.28 | - |
| SHBNPP Peace of Mind TDF 2035 Security Investment Trust [Equity Balanced-FoF] | “ | “ | 25.70 | - |
| SHBNPP Peace of Mind TDF 2040 Security Investment Trust [Equity Balanced-FoF] | “ | “ | 25.42 | - |
| BRAIN DO PROFESSIONALE PRIVATE No. 27 | “ | “ | 29.13 | - |
| VISION US Muni US Local Debt Opportunities Professional Private1(S) | “ | “ | 25.00 | - |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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(In millions of won)

15. Investments in associates (continued)

(a) Investments in associates as of December 31, 2019 and December 31, 2018 are as follows (continued):

(*1) The latest financial statements were used for the equity method since the financial statements as of December 31, 2019 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.

(*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) Excluded from the investments in associates due to full or partial disposal of shares, or loss of significant influence.

(*8) 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.

(*9) Although the ownership percentages were less than 20%, the Group applies the equity method accounting since it participates in policy-making processes and therefore can exercise significant influence on investees.

(*10) The investment in the associate is consolidated due to the additional acquisition of the shares from the year ended December 31, 2019.

(*11) The rate of Group's voting rights is 4.65%.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

15. Investments in associates (continued)

(b) Changes in investments in associates for the years ended December 31, 2019 and 2018 were as follows:

| Investees | 2019 | | | | | |
|---|-------------------|-------------------------|-----------------------------|--------------------------------------|-----------------|----------------|
| | Beginning balance | Investment and dividend | Equity method income (loss) | Change in other comprehensive income | Impairment loss | Ending balance |
| BNP Paribas Cardif Life Insurance | ₩ 49,816 | (373) | (517) | 3,660 | - | 52,586 |
| Songrim Partners.(*1) | - | - | - | - | - | - |
| Neoplux Technology Valuation Investment Fund | 18,738 | (1,661) | (693) | - | - | 16,384 |
| Partners 4th Growth Investment Fund | 16,612 | (1,219) | (476) | - | - | 14,917 |
| KTB Newlake Global Healthcare PEF | 9,885 | 1,500 | (105) | - | - | 11,280 |
| Daekwang Semiconductor Co., Ltd. | 3,334 | - | 52 | 2 | - | 3,388 |
| Shinhan-Neoplux Energy Newbiz Fund | 3,974 | 4,200 | (294) | - | - | 7,880 |
| Shinhan-Albatross tech investment Fund | 8,908 | - | 132 | (306) | - | 8,734 |
| KCLAVIS Meister Fund No.17 | 3,083 | (1,801) | (84) | - | - | 1,198 |
| Plutus-SG Private Equity Fund | 4,252 | (132) | 111 | - | - | 4,231 |
| SG ARGES Private Equity Fund No.1 | 4,341 | (4,796) | 455 | - | - | - |
| Eum Private Equity Fund No.3 | 4,889 | (2,476) | 1,161 | - | - | 3,574 |
| KTB Confidence Private Placement | 5,302 | (215) | 980 | - | - | 6,067 |
| Meritz AI-SingA330-A Investment Type Private Placement Special Asset Fund | 5,432 | (1,266) | 90 | - | - | 4,256 |
| Meritz AI-SingA330-B Investment Type Private Placement Special Asset Fund | 8,429 | 242 | 245 | - | - | 8,916 |
| VOGO Debt Strategy Qualified INV Private R/E INV TR 4 | 4,831 | 4,820 | 279 | - | - | 9,930 |
| Platform Partners brick save Private Investment trust | 8,120 | (8,197) | 77 | - | - | - |
| Shinhan-Midas Donga Secondary Fund | 2,061 | 1,750 | (325) | - | - | 3,486 |
| ShinHan – Soo Young Entrepreneur Investment Fund No.1 | 2,554 | 1,968 | 27 | - | - | 4,549 |
| Synergy-Shinhan Mezzanine New Technology Investment Fund | 10,149 | (6,492) | 255 | - | - | 3,912 |
| Shinhan Praxis K-Growth Global Private Equity Fund | 16,527 | (8,745) | 2,520 | - | - | 10,302 |
| Credian Healthcare Private Equity Fund II | 4,553 | (2,526) | 350 | - | - | 2,377 |
| Kiwoom Milestone Professional Private Real Estate Trust 19 | 10,419 | (241) | 229 | - | - | 10,407 |
| AIP EURO Green Private Real Estate Trust No.3 | 20,544 | (1,248) | 1,588 | - | - | 20,884 |
| Brain Professional Private Trust No.4 | 5,244 | (5,175) | (69) | - | - | - |
| Hanhwa US Equity Strategy Private Real Estate Fund No.1 | 26,232 | (1,866) | 1,598 | - | - | 25,964 |
| Brain KS Qualified Privately Placed Fund No.6 | 5,097 | (5,041) | (56) | - | - | - |
| Shinhan Global Healthcare Fund 1 | 3,285 | - | (76) | - | - | 3,209 |

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15. Investments in associates (continued)

(b) Changes in investments in associates for the years ended December 31, 2019 and 2018 were as follows (continued):

| Investees | 2019 | | | | | |
|--|-------------------|-------------------------|-----------------------------|--------------------------------------|-----------------|----------------|
| | Beginning balance | Investment and dividend | Equity method income (loss) | Change in other comprehensive income | Impairment loss | Ending balance |
| JB Power TL Investment Type Private Placement Special Asset Fund 7 | ₩ 17,484 | (1,513) | 829 | - | - | 16,800 |
| IBK AONE convertible 1 | 5,906 | - | 171 | - | - | 6,077 |
| Rico synergy collabo Multi-Mezzanine 3 | 5,290 | (2,501) | 428 | - | - | 3,217 |
| KB NA Hickory Private Special Asset Fund | 34,360 | 445 | 1,125 | - | - | 35,930 |
| GB Professional Private Investment Trust 6 | 8,588 | (8,588) | - | - | - | - |
| Koramco Europe Core Private Placement Real Estate Fund No.2-2 | 18,616 | (1,458) | 2,404 | - | - | 19,562 |
| SHBNPP Private Korea Equity Long-Short Professional Feeder | 14,370 | (14,325) | (45) | - | - | - |
| Shinhan-Stonebridge Petro PEF | 18,681 | (19,589) | 909 | - | - | 1 |
| BNP Paribas Cardif General Insurance | 3,423 | - | (1,296) | (14) | - | 2,113 |
| Axis Global Growth New Technology Investment Association | 4,875 | (1,592) | (78) | - | - | 3,205 |
| Polaris No7 Start up and Venture Private Equity Fund | 4,338 | (2,300) | 265 | - | - | 2,303 |
| Hermes Private Investment Equity Fund | 7,065 | - | (689) | - | - | 6,376 |
| SHC ULMUS Fund No.1 | 2,890 | - | 259 | - | - | 3,149 |
| Shinhan-Nvestor Liquidity Solution Fund | 2,689 | 2,700 | (524) | - | - | 4,865 |
| Shinhan AIM FoF Fund 1a | 4,351 | 2,363 | 528 | - | - | 7,242 |
| Daishin Heim Qualified Investor Private Investment Trust No.1808 | 10,126 | (10,297) | 171 | - | - | - |
| Heungkuk High Class Professional Trust Private Fund 37 | 9,438 | (9,505) | 67 | - | - | - |
| IGIS Global Credit Fund 150-1 | 8,896 | 781 | 41 | - | - | 9,718 |
| GX Shinhan Intervest 1st Private Equity Fund | 31,831 | - | 1,335 | - | - | 33,166 |
| Soo Commerce Platform Growth Fund | 6,378 | - | (35) | - | - | 6,343 |
| Partner One Value up I Private Equity Fund | 11,939 | - | (48) | - | - | 11,891 |
| Genesis No.1 Private Equity Fund | 45,758 | 404 | 4,988 | - | - | 51,150 |
| GMB ICT New Technology Investment Fund | 7,934 | - | (80) | - | - | 7,854 |
| Korea Omega Project Fund III | 1,992 | - | 1,024 | - | - | 3,016 |
| Soo Delivery Platform Growth Fund | 8,983 | (171) | 110 | - | - | 8,922 |
| Genesis North America Power Company No.1 PEF | 20,824 | (4,035) | 1,486 | - | - | 18,275 |
| Hyungje art printing(*1) | - | - | - | - | - | - |

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15. Investments in associates (continued)

(b) Changes in investments in associates for the years ended December 31, 2019 and 2018 were as follows
(continued) :

| Investees | 2019 | | | | | |
|---|-------------------|-------------------------|-----------------------------|--------------------------------------|-----------------|----------------|
| | Beginning balance | Investment and dividend | Equity method income (loss) | Change in other comprehensive income | Impairment loss | Ending balance |
| SHBNPP MAIN Professional Investment Type Private Mixed Asset Investment Trust No.3 | ₩ 6,204 | 14,147 | 361 | - | - | 20,712 |
| Shinhan-Rhinos 1 Fund | - | 3,000 | 29 | - | - | 3,029 |
| Pacific Private Investment Trust No.20 | - | 3,819 | 257 | - | - | 4,076 |
| Susung Mezzanine project P1 Private Investment Trust | - | 4,000 | 1,128 | - | - | 5,128 |
| Korea Finance Security (*2) | - | 3,448 | (213) | - | - | 3,235 |
| MIEL CO.,LTD(*3) | - | - | - | - | - | - |
| AIP Transportation Specialized Privately Placed Fund Trust #1 | - | 31,136 | 444 | - | - | 31,580 |
| Lime Neptune Professional Private 6 | - | 5,000 | 63 | - | - | 5,063 |
| PCC S/W 2nd Fund | - | 3,000 | 1 | - | - | 3,001 |
| E&Healthcare Investment Fund No.6 | - | 7,030 | 746 | - | - | 7,776 |
| One Shinhan Global Fund 1 | - | 4,520 | (79) | - | - | 4,441 |
| Kiwoom-Shinhan Innovation Fund I Daishin-K&T New Technology Investment Fund | - | 7,500 | (216) | - | - | 7,284 |
| Midas Asset Global CRE Debt Private Fund No.6 | - | 7,000 | 57 | - | - | 7,057 |
| Richmond Private Investment Trust No.82 | - | 23,194 | 537 | - | - | 23,731 |
| Tiger Alternative Real Estate Professional Private5 | - | 14,569 | 551 | - | - | 15,120 |
| Samchully Midstream Private Placement Special Asset Fund 5-4 | - | 19,876 | (56) | - | - | 19,820 |
| SHBNPP Senior Loan Professional Investment Type Private Mixed Asset Investment Trust No.3 | - | 29,436 | 1,306 | - | - | 30,742 |
| AUCTUS FITRIN Corporate Recovery Private Equity Fund | - | 52,048 | 1,783 | - | - | 53,831 |
| NH-Amundi Global Infrastructure Trust 14 | - | 14,250 | 108 | - | - | 14,358 |
| Pacific Private Real Estate Fund Investment Trust No.30 | - | 17,769 | 728 | - | - | 18,497 |
| Jarvis Memorial Private Investment Trust 1 | - | 14,236 | 580 | - | - | 14,816 |
| Mastern Private Private Investment Trust 68 | - | 9,888 | 278 | - | - | 10,166 |
| Vestas Qualified Investors Private Real Estate Fund Investment Trust No.37 | - | 9,764 | 235 | - | - | 9,999 |
| Milestone Private Real Estate Fund 3 (Derivative Type) | - | 4,434 | (37) | - | - | 4,397 |
| IGIS Private Real Estate Investment Trust 286 (2 class) | - | 17,016 | 170 | - | - | 17,186 |
| Nomura-Rifa Private Real Estate Investment Trust 31 (2 class) | - | 10,100 | (332) | - | - | 9,768 |
| Lime Pricing Private Equity Fund | - | 9,018 | (104) | - | - | 8,914 |
| | - | 8,400 | (100) | - | - | 8,300 |

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15. Investments in associates (continued)

(b) Changes in investments in associates for the years ended December 31, 2019 and 2018 were as follows
(continued) :

| Investees | 2019 | | | | | |
|--|-------------------|-------------------------|-----------------------------|--------------------------------------|-----------------|----------------|
| | Beginning balance | Investment and dividend | Equity method income (loss) | Change in other comprehensive income | Impairment loss | Ending balance |
| SHBNPP Senior Loan Professional Investment Type Private Mixed Asset Investment Trust No.2 | ₩ - | 39,376 | 2,615 | - | - | 41,991 |
| DS Solid.II Hedge Fund | - | 4,300 | (177) | - | - | 4,123 |
| Hana Semiconductor New Technology Fund | - | 13,000 | (144) | - | - | 12,856 |
| J&Magnet Startup Venture Specialized Private Equity Fund | - | 6,000 | (21) | - | - | 5,979 |
| Cape IT Fund No.3 | - | 10,000 | (33) | - | - | 9,967 |
| Vogo Realty Partners Private Real Estate Fund V | - | 10,611 | (235) | - | - | 10,376 |
| IL GU FARM CO.,LTD | - | - | - | - | - | - |
| Korea Credit Bureau(*2) | - | 4,500 | 2,312 | - | - | 6,812 |
| SBC PFV Co., Ltd | - | 20,000 | - | - | - | 20,000 |
| Sprott Global Renewable Private Equity Fund II | - | 20,131 | (1,115) | - | - | 19,016 |
| NH-amundi global infra private fund 16 | - | 49,530 | (1,372) | - | - | 48,158 |
| IMM Global Private Equity Fund | - | 28,945 | (20) | - | - | 28,925 |
| HANA Alternative Estate Professional Private122 | - | 28,487 | (2,282) | - | - | 26,205 |
| Hanwha-Incus Plus New Technology Fund No.1 | - | 5,500 | (1) | - | - | 5,499 |
| SHBNPP Corporate Professional Investment Type Private Security Investment Trust No.7[Bond] | - | 51,293 | - | - | - | 51,293 |
| SHBNPP BNCT Professional Investment Type Private Special Asset Investment Trust | - | 146,045 | 4,272 | - | - | 150,317 |
| PSA EMP Private Equity Fund | - | 10,000 | (73) | - | - | 9,927 |
| Deutsche Global Professional Investment Type Private Real Estate Investment Trust No. 24 | - | 28,314 | 1,149 | - | - | 29,463 |
| SHBNPP Peace of Mind TDF 2035 Security Investment Trust [Equity Balanced-FoF] | - | 5,727 | - | - | - | 5,727 |
| SHBNPP Peace of Mind TDF 2040 Security Investment Trust [Equity Balanced-FoF] | - | 5,729 | - | - | - | 5,729 |
| BRAIN DO PROFESSIONALE PRIVATE No. 27 | - | 3,000 | 65 | - | - | 3,065 |
| VISION US Muni US Local Debt Opportunities Professional Private1(S) | - | 9,500 | 369 | - | - | 9,869 |
| Others | 81,490 | (14,513) | 18,954 | - | - | 85,931 |
| | ₩ 671,330 | 724,902 | 53,287 | 3,342 | - | 1,452,861 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

15. Investments in associates (continued)

(b) Changes in investments in associates for the years ended December 31, 2019 and 2018 were as follows
(continued):

(*1) The Group has stopped recognizing its equity method income or loss due to the investees' cumulative loss.

(*2) Classified as investments in associates without cash transactions.

(*3) No gains or losses from the equity method investees have been recognized after the acquisition of a debt-to-equity swap in 2019.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

15. Investments in associates (continued)

(b) Changes in investments in associates for the years ended December 31, 2019 and 2018 were as follows
(continued):

| Investees | 2018 | | | | | |
|---|-------------------|-------------------------|-----------------------------|--------------------------------------|-----------------|----------------|
| | Beginning balance | Investment and dividend | Equity method income (loss) | Change in other comprehensive income | Impairment loss | Ending balance |
| 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. Partners 4th Growth Investment Fund | 3,849 | (2,865) | (836) | (148) | - | - |
| 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 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

15. Investments in associates (continued)

(b) Changes in investments in associates for the years ended December 31, 2019 and 2018 were as follows
(continued):

| Investees | 2018 | | | | | |
|--|-------------------|-------------------------|-----------------------------|--------------------------------------|-----------------|----------------|
| | Beginning balance | Investment and dividend | Equity method income (loss) | Change in other comprehensive income | Impairment loss | Ending balance |
| 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 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

15. Investments in associates (continued)

(b) Changes in investments in associates for the years ended December 31, 2019 and 2018 were as follows (continued):

| Investees | 2018 | | | | | |
|--|-------------------|-------------------------|-----------------------------|--------------------------------------|-----------------|----------------|
| | Beginning balance | Investment and dividend | Equity method income (loss) | Change in other comprehensive income | Impairment loss | Ending balance |
| 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) Included disposal by account reclassification involving non-cash transactions.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

15. Investments in associates (continued)

(c) The statement of financial information as of and for the year ended December 31, 2019 and 2018 were as follows:

| Investees | 2019 | | | | | |
|---|-------------|-----------|-------------------|-------------------|-----------------------------------|-----------------------------------|
| | Asset | Liability | Operating revenue | Net profit (loss) | Other comprehensive income (loss) | Total comprehensive income (loss) |
| BNP Paribas Cardif Life Insurance | ₩ 3,896,875 | 3,545,682 | 37,067 | (3,919) | 24,402 | 20,483 |
| Neoplux Technology Valuation Investment Fund | 49,890 | 738 | 3,953 | (2,078) | - | (2,078) |
| Partners 4th Growth Investment Fund | 60,775 | 1,106 | 14 | (1,904) | - | (1,904) |
| KTB Newlake Global Healthcare PEF | 37,187 | 151 | 387 | (349) | - | (349) |
| Daekwang Semiconductor Co., Ltd. | 23,507 | 7,328 | 1,248 | 248 | 9 | 257 |
| Shinhan-Neoplux Energy Newbiz Fund | 33,791 | 18 | 26 | (1,259) | - | (1,259) |
| Shinhan-Albatross tech investment Fund | 17,681 | 182 | 1,263 | 551 | (917) | (366) |
| KCLAVIS Meister Fund No.17 | 4,689 | 96 | 425 | (322) | - | (322) |
| Plutus-SG Private Equity Fund | 16,006 | 138 | 700 | 419 | - | 419 |
| Eum Private Equity Fund No.3 | 17,243 | 27 | 6,305 | 5,604 | - | 5,604 |
| KTB Confidence Private Placement | 19,369 | 64 | 7,328 | 3,122 | - | 3,122 |
| Meritz AI-SingA330-A Investment Type Private Placement Special Asset Fund | 17,821 | 1 | 1,280 | 377 | - | 377 |
| Meritz AI-SingA330-B Investment Type Private Placement Special Asset Fund | 44,228 | 2 | 3,445 | 1,217 | - | 1,217 |
| VOGO Debt Strategy Qualified INV Private R/E INV TR 4 | 49,683 | 33 | 4,198 | 1,391 | - | 1,391 |
| Shinhan-Midas Donga Secondary Fund | 6,973 | 1 | 88 | (651) | - | (651) |
| ShinHan – Soo Young Entrepreneur Investment Fund No.1 | 18,963 | 9 | 1,656 | 113 | - | 113 |
| Synergy-Shinhan Mezzanine New Technology Investment Fund | 8,266 | 51 | 834 | 535 | - | 535 |
| Shinhan Praxis K-Growth Global Private Equity Fund | 54,786 | 185 | 27,588 | 13,361 | - | 13,361 |
| Credian Healthcare Private Equity Fund II | 7,001 | 24 | 1,542 | 1,031 | - | 1,031 |
| Kiwoom Milestone Professional Private Real Estate Trust 19 | 59,559 | 38,744 | 3,100 | 470 | - | 470 |
| AIP EURO Green Private Real Estate Trust No.3 | 98,221 | 86 | 18,362 | 7,462 | - | 7,462 |
| Hanhwa US Equity Strategy Private Real Estate Fund No.1 | 59,652 | 1,750 | 14,838 | 3,742 | - | 3,742 |
| Shinhan Global Healthcare Fund 1 | 73,388 | 701 | 5,480 | (1,722) | - | (1,722) |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

15. Investments in associates (continued)

(c) The statement of financial information as of and for the year ended December 31, 2019 and 2018 were as follows (continued):

| Investees | 2019 | | | | | |
|--|----------|-----------|-------------------|-------------------|-----------------------------------|-----------------------------------|
| | Asset | Liability | Operating revenue | Net profit (loss) | Other comprehensive income (loss) | Total comprehensive income (loss) |
| JB Power TL Investment Type Private Placement Special Asset Fund 7 | ₩ 50,468 | 66 | 15,476 | 2,487 | - | 2,487 |
| IBK AONE convertible 1 | 12,861 | 0 | 1,515 | 410 | - | 410 |
| Rico synergy collabo Multi-Mezzanine 3 | 6,433 | 2 | 1,296 | 856 | - | 856 |
| KB NA Hickory Private Special Asset Fund | 96,289 | 476 | 16,132 | 2,489 | - | 2,489 |
| Koramco Europe Core Private Placement Real Estate Fund No.2-2 | 46,742 | 2,304 | 9,328 | 5,462 | - | 5,462 |
| Shinhan-Stonebridge Petro PEF | 1,388 | 1,350 | 52,928 | 49,878 | - | 49,878 |
| BNP Paribas Cardif General Insurance | 43,064 | 21,936 | 17,613 | (12,962) | (136) | (13,098) |
| Axis Global Growth New Technology Investment Association | 10,064 | - | 1 | (244) | - | (244) |
| Polaris No7 Start up and Venture Private Equity Fund | 8,113 | 52 | 1,037 | 928 | - | 928 |
| Hermes Private Investment Equity Fund | 21,954 | 95 | 45 | (2,366) | - | (2,366) |
| SHC ULMUS Fund No.1 | 10,706 | - | 1,073 | 881 | - | 881 |
| Shinhan-Nvestor Liquidity Solution Fund | 19,524 | - | 209 | (2,101) | - | (2,101) |
| Shinhan AIM FoF Fund 1a | 28,987 | 20 | 5,556 | 2,111 | - | 2,111 |
| IGIS Global Credit Fund 150-1 | 38,912 | 38 | 2,674 | 166 | - | 166 |
| GX Shinhan Intervest 1st Private Equity Fund | 131,237 | - | 6,689 | 5,283 | - | 5,283 |
| Soo Commerce Platform Growth Fund | 25,765 | 3 | 36 | (140) | - | (140) |
| Partner One Value up I Private Equity Fund | 42,602 | - | 457 | (173) | - | (173) |
| Genesis No.1 Private Equity Fund | 224,322 | 7 | 23,180 | 21,872 | - | 21,872 |
| GMB ICT New Technology Investment Fund | 29,359 | - | 2 | (298) | - | (298) |
| Korea Omega Project Fund III | 12,818 | - | 4,432 | 4,351 | - | 4,351 |
| Soo Delivery Platform Growth Fund | 29,743 | 3 | 675 | 367 | - | 367 |
| Genesis North America Power Company No.1 PEF | 46,041 | 281 | 4,323 | 3,756 | - | 3,756 |
| SHBNPP MAIN Professional Investment Type Private Mixed Asset Investment Trust No.3 | 89,450 | 687 | 4,262 | 1,546 | - | 1,546 |
| Shinhan-Rhinos 1 Fund | 13,474 | - | 143 | 129 | - | 129 |
| Pacific Private Investment Trust No.20 | 18,764 | 15 | 1,247 | 1,187 | - | 1,187 |
| Susung Mezzanine project P1 Private Investment Trust | 10,023 | 351 | 22 | (91) | - | (91) |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

15. Investments in associates (continued)

(c) The statement of financial information as of and for the year ended December 31, 2019 and 2018 were as follows (continued):

| Investees | 2019 | | | | | | |
|---|----------|-----------|-------------------|-------------------|-----------------------------------|-----------------------------------|--|
| | Asset | Liability | Operating revenue | Net profit (loss) | Other comprehensive income (loss) | Total comprehensive income (loss) | |
| Korea Finance Security | ₩ 32,079 | 10,386 | 64,964 | (1,297) | - | (1,297) | |
| AIP Transportation Specialized Privately Placed Fund Trust #1 | 94,437 | 6,042 | 12,473 | 1,242 | - | 1,242 | |
| Lime Neptune Professional Private 6 | 10,166 | 41 | 460 | 125 | - | 125 | |
| PCC S/W 2nd Fund | 10,154 | - | 151 | 4 | - | 4 | |
| E&Healthcare Investment Fund No.6 | 38,181 | 2 | 4,405 | 3,664 | - | 3,664 | |
| One Shinhan Global Fund 1 | 22,244 | - | 92 | (406) | - | (406) | |
| Kiwoom-Shinhan Innovation Fund I | 14,719 | 151 | 13 | (432) | - | (432) | |
| Daishin-K&T New Technology Investment Fund | 55,686 | 33,103 | 1,292 | 183 | - | 183 | |
| Midas Asset Global CRE Debt Private Fund No.6 | 118,438 | 70 | 3,907 | 2,677 | - | 2,677 | |
| Richmond Private Investment Trust No.82 | 50,079 | 24,879 | 1,155 | 919 | - | 919 | |
| Tiger Alternative Real Estate Professional Private5 | 40,792 | 103 | 1,628 | (116) | - | (116) | |
| Samchully Midstream Private Placement Special Asset Fund 5-4 | 71,680 | 55 | 14,423 | 3,015 | - | 3,015 | |
| SHBNPP Senior Loan Professional Investment Type Private Mixed Asset Investment Trust No.3 | 269,203 | 48 | 8,854 | 8,289 | - | 8,289 | |
| AUCTUS FITRIN Corporate Recovery Private Equity Fund | 67,222 | 218 | 1,187 | 449 | - | 449 | |
| NH-Amundi Global Infrastructure Trust 14 | 61,696 | 39 | 7,404 | 2,427 | - | 2,427 | |
| Pacific Private Real Estate Fund Investment Trust No.30 | 39,779 | 270 | 1,817 | 1,547 | - | 1,547 | |
| Jarvis Memorial Private Investment Trust 1 | 10,279 | 12 | 293 | 281 | - | 281 | |
| Mastern Private Private Investment Trust 68 | 18,600 | 2 | 533 | 437 | - | 437 | |
| Vestas Qualified Investors Private Real Estate Fund Investment Trust No.37 | 7,336 | 7 | 214 | (61) | - | (61) | |
| Milestone Private Real Estate Fund 3 (Derivative Type) | 53,610 | 3 | 603 | 532 | - | 532 | |
| IGIS Private Real Estate Investment Trust 286 (2 class) | 75,372 | 51,870 | 2,838 | (798) | - | (798) | |
| Nomura-Rifa Private Real Estate Investment Trust 31 (2 class) | 99,976 | 71,507 | 2,383 | (331) | - | (331) | |
| Lime Pricing Private Equity Fund | 32,231 | 118 | 10 | (388) | - | (388) | |
| SHBNPP Senior Loan Professional Investment Type Private Mixed Asset Investment Trust No.2 | 197,536 | 119 | 12,963 | 12,296 | - | 12,296 | |
| DS Solid.II Hedge Fund | 15,042 | - | 4 | (605) | - | (605) | |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

15. Investments in associates (continued)

(c) The statement of financial information as of and for the year ended December 31, 2019 and 2018 were as follows (continued) :

| Investees | 2019 | | | | | |
|--|----------|-----------|-------------------|-------------------|-----------------------------------|-----------------------------------|
| | Asset | Liability | Operating revenue | Net profit (loss) | Other comprehensive income (loss) | Total comprehensive income (loss) |
| Hana Semiconductor New Technology Fund | ₩ 52,905 | - | 73 | (595) | - | (595) |
| J&Magnet Startup Venture Specialized Private Equity Fund | 24,513 | - | - | (87) | - | (87) |
| Cape IT Fund No.3 | 30,333 | 35 | - | (101) | - | (101) |
| Vogo Realty Partners Private Real Estate Fund V | 47,992 | 34 | 281 | (1,084) | - | (1,084) |
| Korea Credit Bureau | 95,764 | 20,075 | 66,314 | 10,604 | - | 10,604 |
| SBC PFV Co., Ltd | 120,000 | 40,000 | - | - | - | - |
| Sprott Global Renewable Private Equity Fund II | 82,721 | 3 | 1,416 | (4,833) | - | (4,833) |
| NH-amundi global infra private fund 16 | 100,513 | 4,197 | 4,128 | (2,744) | - | (2,744) |
| IMM Global Private Equity Fund | 90,870 | 63 | - | (63) | - | (63) |
| HANA Alternative Estate Professional Private122 | 34,897 | 45 | 1,561 | (3,035) | - | (3,035) |
| Hanwha-Incus Plus New Technology Fund No.1 | 12,900 | 1 | - | (1) | - | (1) |
| SHBNPP Corporate Professional Investment Type Private Security Investment Trust No.7[Bond] | 127,339 | 15,732 | - | - | - | - |
| SHBNPP BNCT Professional Investment Type Private Special Asset Investment Trust | 402,633 | 141,200 | 10,036 | 7,256 | - | 7,256 |
| PSA EMP Private Equity Fund | 34,535 | 285 | 1 | (250) | - | (250) |
| Deutsche Global Professional Investment Type Private Real Estate Investment Trust No. 24 | 57,088 | 728 | 2,735 | 2,198 | - | 2,198 |
| SHBNPP Peace of Mind TDF 2035 Security Investment Trust [Equity Balanced-FoF] | 22,926 | 641 | - | - | - | - |
| SHBNPP Peace of Mind TDF 2040 Security Investment Trust [Equity Balanced-FoF] | 23,865 | 1,329 | - | - | - | - |
| BRAIN DO PROFESSIONALE PRIVATE No. 27 | 10,305 | 10 | 58 | (5) | - | (5) |
| VISION US Muni US Local Debt Opportunities Professional Private1(S) | 39,175 | 80 | 1,440 | 1,088 | - | 1,088 |

(*) Excluded the associates' financial information that are not subject to recognizing equity method income or loss or financial information is not available.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

15. Investments in associates (continued)

(c) The statement of financial information as of and for the year ended December 31, 2019 and 2018 were as follows (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) | |
| 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 | |
| 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 INV TR 4 | 24,174 | 15 | 3,046 | 1,165 | - | 1,165 | |
| 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 | |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

15. Investments in associates (continued)

(c) The statement of financial information as of and for the year ended December 31, 2019 and 2018 were as follows (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 | (10,068) |
| 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 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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(In millions of won)

15. Investments in associates (continued)

(c) The statement of financial information as of and for the year ended December 31, 2019 and 2018 were as follows (continued) :

| Investees | 2018 | | | | | | |
|--|----------|-----------|-------------------|-------------------|-----------------------------------|-----------------------------------|--|
| | Asset | Liability | Operating revenue | Net profit (loss) | Other comprehensive income (loss) | Total comprehensive income (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) | |

(*) Excluded the associates' financial information that are not subject to recognizing equity method income or loss or financial information is not available.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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December 31, 2019 and 2018

(In millions of won)

15. Investments in associates (continued)

(d) Reconciliation of the financial information to the carrying values of its interests in the associates as of December 31, 2019 and 2018 are as follows:

| Investees | 2019 | | | | | |
|---|-------------------|---------------------|---|-----------------------------|-------|-------------------|
| | Net assets (a) | Ownership (%)(b) | Interests in the net assets (a)*(b) | Intra-group transactions | Other | Carrying Value |
| BNP Paribas Cardif Life Insurance | ₩ 351,193 | 14.99 | 52,665 | (79) | - | 52,586 |
| Songrim Partners.(*1) | (62) | 35.34 | (22) | - | 22 | - |
| Neoplux Technology Valuation Investment Fund | 49,152 | 33.33 | 16,384 | - | - | 16,384 |
| Partners 4th Growth Investment Fund | 59,669 | 25.00 | 14,917 | - | - | 14,917 |
| KTB Newlake Global Healthcare PEF(*2) | 37,036 | 30.00 | 11,110 | - | 170 | 11,280 |
| Daekwang Semiconductor Co., Ltd. | 16,179 | 20.94 | 3,388 | - | - | 3,388 |
| Shinhan-Neoplux Energy Newbiz Fund | 33,773 | 23.33 | 7,880 | - | - | 7,880 |
| Shinhan-Albatross tech investment Fund | 17,499 | 50.00 | 8,734 | - | - | 8,734 |
| KCLAVIS Meister Fund No.17 | 4,593 | 26.09 | 1,198 | - | - | 1,198 |
| Plutus-SG Private Equity Fund | 15,868 | 26.67 | 4,231 | - | - | 4,231 |
| Eum Private Equity Fund No.3 | 17,216 | 20.76 | 3,574 | - | - | 3,574 |
| KTB Confidence Private Placement | 19,305 | 31.43 | 6,067 | - | - | 6,067 |
| Meritz AI-SingA330-A Investment Type Private Placement Special Asset Fund | 17,820 | 23.89 | 4,256 | - | - | 4,256 |
| Meritz AI-SingA330-B Investment Type Private Placement Special Asset Fund | 44,226 | 20.16 | 8,916 | - | - | 8,916 |
| VOGO Debt Strategy Qualified INV Private R/E INV TR 4 | 49,650 | 20.00 | 9,930 | - | - | 9,930 |
| Shinhan-Midas Donga Secondary Fund | 6,972 | 50.00 | 3,486 | - | - | 3,486 |
| ShinHan – Soo Young Entrepreneur Investment Fund No.1 | 18,954 | 24.00 | 4,549 | - | - | 4,549 |
| Synergy-Shinhan Mezzanine New Technology Investment Fund | 8,215 | 47.62 | 3,912 | - | - | 3,912 |
| Shinhan Praxis K-Growth Global Private Equity Fund | 54,601 | 18.87 | 10,302 | - | - | 10,302 |
| Credian Healthcare Private Equity Fund II | 6,977 | 34.07 | 2,377 | - | - | 2,377 |
| Kiwoom Milestone Professional Private Real Estate Trust 19 | 20,816 | 50.00 | 10,407 | - | - | 10,407 |
| AIP EURO Green Private Real Estate Trust No.3 | 98,135 | 21.28 | 20,884 | - | - | 20,884 |
| Hanhwa US Equity Strategy Private Real Estate Fund No.1 | 57,901 | 44.84 | 25,964 | - | - | 25,964 |
| Shinhan Global Healthcare Fund 1 | 72,687 | 4.41 | 3,209 | - | - | 3,209 |
| JB Power TL Investment Type Private Placement Special Asset Fund 7 | 50,402 | 33.33 | 16,800 | - | - | 16,800 |
| IBK AONE convertible 1 | 12,861 | 47.25 | 6,077 | - | - | 6,077 |
| Rico synergy collabo Multi-Mezzanine 3 | 6,431 | 50.03 | 3,217 | - | - | 3,217 |
| KB NA Hickory Private Special Asset Fund | 95,813 | 37.50 | 35,930 | - | - | 35,930 |
| Koramco Europe Core Private Placement Real Estate Fund No.2-2 | 44,438 | 44.02 | 19,562 | - | - | 19,562 |
| Shinhan-Stonebridge Petro PEF | 38 | 1.82 | 1 | - | - | 1 |
| BNP Paribas Cardif General Insurance | 21,128 | 10.00 | 2,113 | - | - | 2,113 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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(In millions of won)

15. Investments in associates (continued)

(d) Reconciliation of the financial information to the carrying values of its interests in the associates as of December 31, 2019 and December 31, 2018 are as follows (continued):

| Investees | 2019 | | | | | |
|--|-------------------|---------------------|---|-----------------------------|-------|-------------------|
| | Net assets (a) | Ownership (%)(b) | Interests in the net assets (a)*(b) | Intra-group transactions | Other | Carrying Value |
| Axis Global Growth New Technology Investment Association | ₩ 10,064 | 31.85 | 3,205 | - | - | 3,205 |
| Polaris No7 Start up and Venture Private Equity Fund | 8,061 | 28.57 | 2,303 | - | - | 2,303 |
| Hermes Private Investment Equity Fund | 21,859 | 29.17 | 6,376 | - | - | 6,376 |
| SHC ULMUS Fund No.1 | 10,706 | 29.41 | 3,149 | - | - | 3,149 |
| Shinhan-Nvestor Liquidity Solution Fund | 19,524 | 24.92 | 4,865 | - | - | 4,865 |
| Shinhan AIM FoF Fund 1a | 28,967 | 25.00 | 7,242 | - | - | 7,242 |
| IGIS Global Credit Fund 150-1 | 38,874 | 25.00 | 9,718 | - | - | 9,718 |
| GX Shinhan Interwest 1st Private Equity Fund | 131,237 | 25.27 | 33,166 | - | - | 33,166 |
| Soo Commerce Platform Growth Fund | 25,762 | 24.62 | 6,343 | - | - | 6,343 |
| Partner One Value up I Private Equity Fund | 42,602 | 27.91 | 11,891 | - | - | 11,891 |
| Genesis No.1 Private Equity Fund | 224,315 | 22.80 | 51,150 | - | - | 51,150 |
| GMB ICT New Technology Investment Fund | 29,359 | 26.75 | 7,854 | - | - | 7,854 |
| Korea Omega Project Fund III | 12,818 | 23.53 | 3,016 | - | - | 3,016 |
| Soo Delivery Platform Growth Fund | 29,740 | 30.00 | 8,922 | - | - | 8,922 |
| Genesis North America Power Company No.1 PEF | 45,759 | 39.92 | 18,275 | - | - | 18,275 |
| Hyungje art printing(*1) | (264) | 31.54 | (83) | - | 83 | - |
| SHBNPP MAIN Professional Investment Type Private Mixed Asset Investment Trust No.3 | 88,763 | 23.33 | 20,712 | - | - | 20,712 |
| Shinhan-Rhinos 1 Fund | 13,474 | 22.48 | 3,029 | - | - | 3,029 |
| Pacific Private Investment Trust No.20 | 18,749 | 21.74 | 4,076 | - | - | 4,076 |
| Susung Mezzanine project P1 Private Investment Trust | 9,672 | 41.18 | 5,128 | - | - | 5,128 |
| Korea Finance Security | 21,693 | 14.91 | 3,235 | - | - | 3,235 |
| MIEL CO.,LTD(*1) | (119) | 28.77 | (34) | - | 34 | - |
| AIP Transportation Specialized Privately Placed Fund Trust #1 | 88,395 | 35.73 | 31,580 | - | - | 31,580 |
| Lime Neptune Professional Private 6 | 10,125 | 50.00 | 5,063 | - | - | 5,063 |
| PCC S/W 2nd Fund | 10,154 | 29.56 | 3,001 | - | - | 3,001 |
| E&Healthcare Investment Fund No.6 | 38,179 | 20.37 | 7,776 | - | - | 7,776 |
| One Shinhan Global Fund 1 | 22,244 | 19.98 | 4,441 | - | - | 4,441 |
| Kiwoom-Shinhan Innovation Fund I | 14,568 | 50.00 | 7,284 | - | - | 7,284 |
| Daishin-K&T New Technology Investment Fund | 22,583 | 31.25 | 7,057 | - | - | 7,057 |
| Midas Asset Global CRE Debt Private Fund No.6 | 118,368 | 20.05 | 23,731 | - | - | 23,731 |
| Richmond Private Investment Trust No.82 | 25,200 | 60.00 | 15,120 | - | - | 15,120 |
| Tiger Alternative Real Estate Professional Private5 | 40,689 | 48.71 | 19,820 | - | - | 19,820 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

15. Investments in associates (continued)

(d) Reconciliation of the financial information to the carrying values of its interests in the associates as of December 31, 2019 and December 31, 2018 are as follows (continued):

| Investees | 2019 | | | | | |
|---|-------------------|---------------------|---|-----------------------------|-------|-------------------|
| | Net assets (a) | Ownership (%)(b) | Interests in the net assets (a)*(b) | Intra-group transactions | Other | Carrying Value |
| Samchully Midstream Private Placement Special Asset Fund 5-4 | ₩ 71,625 | 42.92 | 30,742 | - | - | 30,742 |
| SHBNPP Senior Loan Professional Investment Type Private Mixed Asset Investment Trust No.3 | 269,155 | 20.00 | 53,831 | - | - | 53,831 |
| AUCTUS FITRIN Corporate Recovery Private Equity Fund | 67,004 | 21.43 | 14,358 | - | - | 14,358 |
| NH-Amundi Global Infrastructure Trust 14 | 61,657 | 30.00 | 18,497 | - | - | 18,497 |
| Pacific Private Real Estate Fund Investment Trust No.30 | 39,509 | 37.50 | 14,816 | - | - | 14,816 |
| Jarvis Memorial Private Investment Trust 1 | 10,267 | 99.01 | 10,166 | - | - | 10,166 |
| Mastern Private Private Investment Trust 68 | 18,598 | 53.76 | 9,999 | - | - | 9,999 |
| Vestas Qualified Investors Private Real Estate Fund Investment Trust No.37 | 7,329 | 60.00 | 4,397 | - | - | 4,397 |
| Milestone Private Real Estate Fund 3 (Derivative Type) | 53,608 | 32.06 | 17,186 | - | - | 17,186 |
| IGIS Private Real Estate Investment Trust 286 (2 class) | 23,502 | 41.56 | 9,768 | - | - | 9,768 |
| Nomura-Rifa Private Real Estate Investment Trust 31 (2 class) | 28,469 | 31.31 | 8,914 | - | - | 8,914 |
| Lime Pricing Private Equity Fund | 32,113 | 25.85 | 8,300 | - | - | 8,300 |
| SHBNPP Senior Loan Professional Investment Type Private Mixed Asset Investment Trust No.2 | 197,417 | 21.27 | 41,991 | - | - | 41,991 |
| DS Solid.II Hedge Fund | 15,042 | 27.41 | 4,123 | - | - | 4,123 |
| Hana Semiconductor New Technology Fund | 52,905 | 24.30 | 12,856 | - | - | 12,856 |
| J&Magnet Startup Venture Specialized Private Equity Fund | 24,513 | 24.39 | 5,979 | - | - | 5,979 |
| Cape IT Fund No.3 | 30,298 | 32.89 | 9,967 | - | - | 9,967 |
| Vogo Realty Partners Private Real Estate Fund V | 47,958 | 21.64 | 10,376 | - | - | 10,376 |
| IL GU FARM CO.,LTD(*1) | (316) | 28.47 | (90) | - | 90 | - |
| Korea Credit Bureau | 75,689 | 9.00 | 6,812 | - | - | 6,812 |
| SBC PFV Co., Ltd | 80,000 | 25.00 | 20,000 | - | - | 20,000 |
| Sprott Global Renewable Private Equity Fund II | 82,718 | 23.10 | 19,016 | - | - | 19,016 |
| NH-amundi global infra private fund 16 | 96,316 | 50.00 | 48,158 | - | - | 48,158 |
| IMM Global Private Equity Fund | 90,807 | 31.85 | 28,925 | - | - | 28,925 |
| HANA Alternative Estate Professional Private122 | 34,853 | 75.19 | 26,205 | - | - | 26,205 |
| Hanwha-Incus Plus New Technology Fund No.1 | 12,899 | 42.64 | 5,499 | - | - | 5,499 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

15. Investments in associates (continued)

(d) Reconciliation of the financial information to the carrying values of its interests in the associates as of December 31, 2019 and December 31, 2018 are as follows (continued):

| Investees | 2019 | | | | | |
|--|-------------------|---------------------|---|-----------------------------|-------|-------------------|
| | Net assets (a) | Ownership (%)(b) | Interests in the net assets (a)*(b) | Intra-group transactions | Other | Carrying Value |
| SHBNPP Corporate Professional Investment Type Private Security Investment Trust No.7[Bond] | ₩ 111,607 | 45.96 | 51,293 | - | - | 51,293 |
| SHBNPP BNCT Professional Investment Type Private Special Asset Investment Trust | 261,433 | 57.50 | 150,317 | - | - | 150,317 |
| PSA EMP Private Equity Fund | 34,250 | 28.99 | 9,927 | - | - | 9,927 |
| Deutsche Global Professional Investment Type Private Real Estate Investment Trust No. 24 | 56,360 | 52.28 | 29,463 | - | - | 29,463 |
| SHBNPP Peace of Mind TDF 2035 Security Investment Trust [Equity Balanced-FoF] | 22,285 | 25.70 | 5,727 | - | - | 5,727 |
| SHBNPP Peace of Mind TDF 2040 Security Investment Trust [Equity Balanced-FoF] | 22,536 | 25.42 | 5,729 | - | - | 5,729 |
| BRAIN DO PROFESSIONALE PRIVATE No. 27 | 10,295 | 29.13 | 3,065 | - | - | 3,065 |
| VISION US Muni US Local Debt Opportunities Professional Private1(S) | 39,095 | 25.00 | 9,869 | - | - | 9,869 |
| Other | 337,794 | - | 85,931 | - | - | 85,931 |
| | ₩ 4,951,196 | - | 1,452,541 | (79) | 399 | 1,452,861 |

(*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 represents the adjustments of fair value when acquired.

(*3) Other represents the amount of preferred stock capital.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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December 31, 2019 and 2018

(In millions of won)

15. Investments in associates (continued)

(d) Reconciliation of the financial information to the carrying values of its interests in the associates as of December 31, 2019 and 2018 are as follows:

| Investees | Net assets (a) | Ownership (%)(b) | 2018 | | | Carrying Value |
|---|-------------------|---------------------|---|-----------------------------|-------|-------------------|
| | | | Interests in the net assets (a)*(b) | Intra-group transactions | Other | |
| 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(*2) | 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 |
| 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 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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15. Investments in associates (continued)

(d) Reconciliation of the financial information to the carrying values of its interests in the associates as of December 31, 2019 and December 31, 2018 are as follows (continued) :

| Investees | 2018 | | | | | |
|--|-------------------|---------------------|---|-----------------------------|-------|-------------------|
| | Net assets (a) | Ownership (%)(b) | Interests in the net assets (a)*(b) | Intra-group transactions | Other | Carrying Value |
| 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 |
| 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 No7 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 |

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15. Investments in associates (continued)

(d) Reconciliation of the financial information to the carrying values of its interests in the associates as of December 31, 2019 and 2018 are as follows (continued):

(*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 represents the adjustments of fair value when acquired.

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(In millions of won)

15. Investments in associates (continued)

(e) The unrecognized equity method losses as of and for the years ended December 31, 2019 and 2018 are as follows:

| Investees | 2019 | |
|----------------------|-----------------------------------|--|
| | Unrecognized equity method losses | Cumulative unrecognized equity method losses |
| Songrim Partners. | ₩ (14) | (22) |
| Hyungje art printing | (45) | (83) |
| MIEL CO.,LTD | (34) | (34) |
| IL GU FARM CO.,LTD | (90) | (90) |
| | ₩ (183) | (229) |

| Investees | 2018 | |
|------------------------|-----------------------------------|--|
| | Unrecognized equity method losses | Cumulative unrecognized equity method losses |
| Daewontos Co., Ltd.(*) | ₩ - | (760) |
| JAEYANG INDUSTRY(*) | - | (18) |
| Songlim Partners. | (8) | (8) |
| Hyungje art printing | (38) | (38) |
| | ₩ (46) | (824) |

(*) Since the Group has disposed the investees fully or partially, the investees were excluded from the investments in associates.

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16. Investment properties

(a) Investment properties as of December 31, 2019 and 2018 are as follows:

| | 2019 | 2018 |
|--------------------------|-------------|-------------|
| Acquisition cost | ₩ 605,773 | 579,852 |
| Accumulated depreciation | (117,163) | (105,032) |
| Carrying value | ₩ 488,610 | 474,820 |

(b) Changes in investment properties for the years ended December 31, 2019 and 2018 are as follows:

| | 2019 | 2018 |
|--|-------------|-------------|
| Beginning balance | ₩ 474,820 | 418,303 |
| Acquisitions | 2,767 | 115,333 |
| Disposals | (73,588) | (13,608) |
| Depreciation | (17,565) | (16,917) |
| Amounts transferred from (to) property and equipment | 104,573 | (28,199) |
| Amounts transferred to assets held for sale(*) | (15,795) | - |
| Foreign currency adjustment | (169) | (92) |
| Business combination (Note 47) | 13,567 | - |
| Ending balance | ₩ 488,610 | 474,820 |

(*) Comprise land and buildings, etc.

(c) Income and expenses on investment property for the years ended December 31, 2019 and 2018 are as follows:

| | 2019 | 2018 |
|--|-------------|-------------|
| Rental income | ₩ 43,777 | 32,488 |
| Direct operating expenses for investment properties that generated rental income | 12,107 | 12,191 |

(d) The fair value of investment property as of December 31, 2019 and 2018 is as follows:

| | 2019 | 2018 |
|-----------------------|-------------|-------------|
| Land and buildings(*) | ₩ 1,062,195 | 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.

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17. Other assets

Other assets as of December 31, 2019 and 2018 are as follows:

| | 2019 | 2018 |
|--|---------------------|-------------------|
| Accounts receivable | ₩ 9,355,388 | 7,666,217 |
| Domestic exchange settlement debit | 4,337,628 | 6,121,332 |
| Guarantee deposits | 1,184,572 | 1,152,434 |
| Present value discount on guarantee deposits | (45,316) | (44,694) |
| Accrued income | 2,612,823 | 1,896,822 |
| Prepaid expense | 193,849 | 194,040 |
| Suspense payments | 71,764 | 73,153 |
| Sundry assets | 93,766 | 92,221 |
| Separate account assets | 8,253,351 | 2,650,302 |
| Advance payments | 317,365 | 616,996 |
| Unamortized deferred acquisition cost | 907,868 | 786,134 |
| Other | 661,998 | 423,759 |
| Allowances for credit loss of other assets | (66,775) | (56,798) |
| | ₩ <u>27,878,281</u> | <u>21,571,918</u> |

18. Leases

(a) Finance lease receivables of the Group as lessor as of December 31, 2019 and 2018 are as follows:

| | | 2019 | | |
|-----------------------|---|------------------|-------------------------|--|
| | | Gross investment | Unearned finance income | Present value of minimum lease payment |
| Not later than 1 year | ₩ | 529,326 | 94,809 | 434,517 |
| 1 ~ 2 years | | 443,708 | 63,226 | 380,482 |
| 2 ~ 3 years | | 469,754 | 37,725 | 432,029 |
| 3 ~ 4 years | | 289,798 | 16,773 | 273,025 |
| 4 ~ 5 years | | 150,811 | 4,225 | 146,586 |
| Later than 5 years | | 16,782 | 44 | 16,738 |
| | ₩ | <u>1,900,179</u> | <u>216,802</u> | <u>1,683,377</u> |

(*) Interest income on finance lease receivables recognized during the year is ₩74,933 million.

| | | 2018 | | |
|-----------------------|---|------------------|-------------------------|--|
| | | Gross investment | Unearned finance income | Present value of minimum lease 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 |
| | ₩ | <u>1,918,527</u> | <u>191,704</u> | <u>1,726,823</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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18. Leases (continued)

(b) The scheduled maturities of minimum lease payments for operating leases of the Group as lessor as of December 31, 2019 and 2018 are as follows:

i) Finance lease

| | | 2019 | | |
|-----------------------|---|------------------------------|---------------------------------|---|
| | | Minimum lease payment | Present value adjustment | Present value of minimum lease payment |
| Not later than 1 year | ₩ | 529,326 | 94,809 | 434,517 |
| 1 ~ 2 years | | 443,708 | 63,226 | 380,482 |
| 2 ~ 3 years | | 469,754 | 37,725 | 432,029 |
| 3 ~ 4 years | | 289,798 | 16,773 | 273,025 |
| 4 ~ 5 years | | 150,811 | 4,225 | 146,586 |
| Later than 5 years | | 16,782 | 44 | 16,738 |
| | ₩ | <u>1,900,179</u> | <u>216,802</u> | <u>1,683,377</u> |

| | | 2018 | | |
|-----------------------|---|------------------------------|---------------------------------|---|
| | | Minimum lease payment | Present value adjustment | Present value of minimum lease 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 |
| | ₩ | <u>1,918,527</u> | <u>191,704</u> | <u>1,726,823</u> |

ii) Operating lease

| | | 2019 | |
|-----------------------|---|------------------------------|----------------|
| | | Minimum lease payment | |
| Not later than 1 year | ₩ | | 142,140 |
| 1 ~ 2 years | | | 118,781 |
| 2 ~ 3 years | | | 76,379 |
| 3 ~ 4 years | | | 37,047 |
| 4 ~ 5 years | | | 14,984 |
| Later than 5 years | | | 83 |
| | ₩ | | <u>389,414</u> |

| | | 2018 | |
|-----------------------|---|------------------------------|----------------|
| | | Minimum lease payment | |
| Not later than 1 year | ₩ | | 94,540 |
| 1 ~ 5 years | | | 180,304 |
| Later than 5 years | | | 10 |
| | ₩ | | <u>274,854</u> |

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18. Leases (continued)

(c) The details of the changes in operating lease assets for the year ended December 31, 2019 are as follows:

| | | 2019 |
|-------------------|---|----------------|
| Beginning balance | ₩ | 370,868 |
| Acquisition | | 411,971 |
| Disposition | | (134,810) |
| Depreciation | | (98,288) |
| Ending balance | ₩ | <u>549,741</u> |

(d) The details of the right-of-use assets by the lessee's underlying asset type as of December 31, 2019 are as follows:

| | | 2019 | | |
|-------------|---|-------------------------|---------------------------------|-----------------------|
| | | <u>Acquisition cost</u> | <u>Accumulated depreciation</u> | <u>Carrying value</u> |
| Real estate | ₩ | 1,306,759 | (228,956) | 1,077,803 |
| Vehicle | | 30,051 | (8,057) | 21,994 |
| Others | | 20,396 | (7,397) | 12,999 |
| | ₩ | <u>1,357,206</u> | <u>(244,410)</u> | <u>1,112,796</u> |

(e) The details of the changes in the right-of-use assets for the year ended December 31, 2019 are as follows:

| | | 2019 | | | |
|---------------------------------------|---|--------------------|----------------|---------------|------------------|
| | | <u>Real estate</u> | <u>Vehicle</u> | <u>Others</u> | <u>Total</u> |
| Beginning balance | ₩ | 554,478 | 16,528 | 12,570 | 583,576 |
| Acquisitions | | 781,097 | 16,523 | 8,163 | 805,783 |
| Disposals | | (10,808) | (1,638) | (149) | (12,595) |
| Depreciation | | (280,691) | (10,094) | (7,753) | (298,538) |
| Effects of foreign currency movements | | 2,890 | 91 | - | 2,981 |
| Business combination (Note 47) | | 30,837 | 584 | 168 | 31,589 |
| Ending balance | ₩ | <u>1,077,803</u> | <u>21,994</u> | <u>12,999</u> | <u>1,112,796</u> |

(f) The details of the maturity of the lease liability as of December 31, 2019 are as follows:

| | | 2019 | | | | | | |
|-------------|---|------------------------|-----------------------------------|------------------------------------|----------------------------------|---------------------------------|--------------------------|------------------|
| | | <u>1 month or less</u> | <u>1 month ~ 3 months or less</u> | <u>3 months ~ 6 months or less</u> | <u>6 months ~ 1 year or less</u> | <u>1 year ~ 5 years or less</u> | <u>More than 5 years</u> | <u>Total</u> |
| Real estate | ₩ | 20,967 | 34,357 | 47,644 | 86,228 | 848,699 | 28,973 | 1,066,868 |
| Vehicle | | 1,378 | 1,542 | 2,178 | 4,108 | 14,410 | - | 23,616 |
| Others | | 959 | 994 | 1,288 | 2,057 | 8,477 | - | 13,775 |
| | ₩ | <u>23,304</u> | <u>36,893</u> | <u>51,110</u> | <u>92,393</u> | <u>871,586</u> | <u>28,973</u> | <u>1,104,259</u> |

(*) The above amounts are based on undiscounted cash flows, and have been classified at the earliest maturity that the Group has the obligation to pay.

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18. Leases (continued)

(g) The lease payments for low-value assets and short-term leases for the year ended December 31, 2019 are as follows:

| | 2019 | |
|----------------------|-------------|-------|
| Low-value assets | ₩ | 5,045 |
| Short-term lease (*) | | 907 |
| Total | ₩ | 5,952 |

(*) The payments less than 1 month are included.

19. Pledged assets

(a) Assets pledged as collateral as of December 31, 2019 and 2018 are as follows:

| | 2019 | 2018 |
|--------------------------------------|--------------|-------------|
| Loans | | |
| Loans at amortized cost | ₩ 128,163 | 129,210 |
| Securities | | |
| Securities at FVTPL | 15,016,057 | 11,533,107 |
| Securities at FVOCI | 2,387,555 | 1,372,746 |
| Securities at amortized cost | 12,791,744 | 10,670,253 |
| | 30,195,356 | 23,576,106 |
| Deposits | | |
| Deposits at amortized cost | 1,090,161 | 1,481,085 |
| Property and Equipment (real estate) | 121,446 | 154,490 |
| Other financial assets | 404 | - |
| | ₩ 31,535,530 | 25,340,891 |

The carrying amounts of assets pledged that the pledgees have the right to sell or re-pledge regardless of the Group's default as of December 31, 2019 and 2018 are ₩9,696,487 million and ₩8,026,332 million, respectively.

(b) The fair value of collateral held that the Group has the right to sell or re-pledge regardless of pledger's default as of December 31, 2019 and 2018 are as follows:

| | | 2019 | |
|------------|---|------------------------------|-------------------------------|
| | | Collateral held | |
| | | Assets pledged as collateral | Assets received as collateral |
| Securities | ₩ | 9,240,573 | 2,007,036 |
| | | 2018 | |
| | | Collateral held | |
| | | Assets pledged as collateral | Assets received as collateral |
| Securities | ₩ | 7,342,239 | 5,190,387 |

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20. Deposits

Deposits as of December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|-------------------------------------|----------------------|--------------------|
| Demand deposits: | | |
| Korean won | ₩ 103,048,895 | 94,210,806 |
| Foreign currencies | 13,233,812 | 11,950,027 |
| | <u>116,282,707</u> | <u>106,160,833</u> |
| Time deposits: | | |
| Korean won | 139,824,896 | 123,572,793 |
| Foreign currencies | 18,602,551 | 16,071,970 |
| | <u>158,427,447</u> | <u>139,644,763</u> |
| Negotiable certificates of deposits | 9,707,791 | 9,247,088 |
| Note discount deposits | 4,579,587 | 4,087,530 |
| CMA | 3,987,372 | 4,084,709 |
| Others | 1,889,352 | 1,775,267 |
| | <u>₩ 294,874,256</u> | <u>265,000,190</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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21. Financial liabilities at fair value through profit or loss

Financial liabilities at fair value through profit or loss as of December 31, 2019 and 2018 are as follows:

| | | <u>2019</u> | <u>2018</u> |
|------------------|---|------------------|------------------|
| Securities sold: | | | |
| Stocks | ₩ | 298,008 | 488,873 |
| Bonds | | 825,942 | 440,382 |
| Others | | 40,747 | 32,117 |
| | | <u>1,164,697</u> | <u>961,372</u> |
| Gold deposits | | 467,760 | 458,934 |
| | ₩ | <u>1,632,457</u> | <u>1,420,306</u> |

22. Financial liabilities designated at fair value through profit or loss

Financial liabilities designated at fair value through profit or loss as of December 31, 2019 and 2018 are as follows:

| | | <u>2019</u> | <u>2018</u> | <u>Reason for designation</u> |
|---|---|------------------|------------------|-------------------------------|
| Equity-linked securities sold | ₩ | 6,880,811 | 6,439,292 | Combined instrument |
| Securities sold with embedded derivatives | | 2,528,645 | 2,096,508 | Combined instrument |
| | ₩ | <u>9,409,456</u> | <u>8,535,800</u> | |

(*) The Group designated the financial liabilities at the initial recognition (or subsequently) in accordance with paragraph 6.7.1 of K-IFRS No. 1109 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 ₩9,409,456 million as of December 31, 2019. Decrease in values of the liability due to credit risk changes are ₩11,621 million for the year ended December 31, 2019 and the accumulated changes in values are ₩(-)11,386 million as of December 31, 2019.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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23. **Borrowings**

Borrowings as of December 31, 2019 and 2018 are as follows:

| | 2019 | | 2018 | |
|---|-------------------|---------------------|-------------------|---------------------|
| | Interest rate (%) | Amount | Interest rate (%) | Amount |
| Call money | 0.00~ 5.25 | ₩ 712,247 | 0.00~6.85 | ₩ 1,425,162 |
| Bill sold | 0.80~ 1.60 | 19,070 | 0.75~1.70 | 14,536 |
| Bonds sold under repurchase agreements: | 0.95~ 5.40 | 9,089,736 | 0.50~6.50 | 7,614,659 |
| Borrowings in Korean won: | | | | |
| Borrowings from Bank of Korea | 0.50~0.75 | 2,429,346 | 0.50~0.75 | 2,329,946 |
| Others | 0.00~6.00 | 14,202,096 | 0.00~4.25 | 12,108,741 |
| | | <u>16,631,442</u> | | <u>14,438,687</u> |
| Borrowings in foreign currencies: | | | | |
| Overdraft due to banks | 0.00 | 86,791 | 0.00 | 77,673 |
| Borrowings from banks | 0.11~7.50 | 6,576,849 | 0.00~12.00 | 4,653,055 |
| Others | 1.94~13.65 | 1,748,031 | 2.60~7.90 | 1,596,626 |
| | | <u>8,411,671</u> | | <u>6,327,354</u> |
| Deferred origination costs | | (1,010) | | (1,856) |
| | | <u>₩ 34,863,156</u> | | <u>₩ 29,818,542</u> |

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24. Debt securities issued

Debt securities issued as of December 31, 2019 and 2018 were as follows:

| | 2019 | | 2018 | |
|---|-------------------|---------------------|-------------------|---------------------|
| | Interest rate (%) | Amount | Interest rate (%) | Amount |
| Debt securities issued in Korean won: | | | | |
| Debt securities issued | 0.71~8.00 | ₩ 60,501,093 | 0.00~8.00 | ₩ 50,661,472 |
| Subordinated debt securities issued | 2.20~4.60 | 4,370,145 | 2.20~4.60 | 4,400,145 |
| Loss on fair value hedges | | (87,692) | | (206,985) |
| Discount on debt securities issued | | (66,334) | | (84,962) |
| | | <u>64,717,212</u> | | <u>54,769,670</u> |
| Debt securities issued in foreign currencies: | | | | |
| Debt securities issued | 0.01~7.59 | 6,750,085 | 0.20~4.01 | 6,278,680 |
| Subordinated debt securities issued | 3.34~5.10 | 3,797,536 | 3.75~5.00 | 2,271,799 |
| Gain(Loss) on fair value hedges | | 141,264 | | (55,251) |
| Discount on debt securities issued | | (42,733) | | (37,199) |
| | | <u>10,646,152</u> | | <u>8,458,029</u> |
| | | <u>₩ 75,363,364</u> | | <u>₩ 63,227,699</u> |

25. Employee benefits

(a) Defined benefit obligations and plan assets

Defined benefit obligations and plan assets as of December 31, 2019 and 2018 are as follows:

| | 2019 | 2018 |
|---|--------------------|--------------------|
| Present value of defined benefit obligations | ₩ 2,063,102 | 1,841,982 |
| Fair value of plan assets | <u>(1,943,644)</u> | <u>(1,714,634)</u> |
| Recognized liabilities for defined benefit obligations(*) | <u>₩ 119,458</u> | <u>127,348</u> |

(*) The net defined benefit liability of ₩119,458 million as of December 31, 2019 is the net defined benefit liability of ₩121,140 million less the net plan assets of ₩1,682 million.

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25. Employee benefits (continued)

(b) Changes in the present value of defined benefit obligation and plan assets for the years ended December 31, 2019 and 2018 are as follows:

| | 2019 | | |
|---|-------------------------------|--------------------|----------------------------------|
| | Defined benefit obligation | Plan assets | Net defined benefit liability |
| Beginning balance | ₩ 1,841,982 | (1,714,634) | 127,348 |
| Included in profit or loss: | | | |
| Current service cost | 172,490 | - | 172,490 |
| Past service cost | (1,588) | - | (1,588) |
| Interest expense (income) | 57,253 | (54,336) | 2,917 |
| Settlement expense (income) | (29) | - | (29) |
| | <u>228,126</u> | <u>(54,336)</u> | <u>173,790</u> |
| Included in other comprehensive income: | | | |
| Remeasurement loss (gain): | | | |
| - Actuarial gains (losses) arising from : | | | |
| Demographic assumptions | (7,584) | - | (7,584) |
| Financial assumptions | 53,475 | - | 53,475 |
| Experience adjustment | 8,001 | - | 8,001 |
| - Return on plan assets excluding interest income | - | 21,719 | 21,719 |
| | <u>53,892</u> | <u>21,719</u> | <u>75,611</u> |
| Other: | | | |
| Benefits paid by the plan | (87,066) | 80,063 | (7,003) |
| Contributions paid into the plan | - | (252,858) | (252,858) |
| Settlement gain or loss | 216 | - | 216 |
| Business combination (Note 47) | 25,965 | (23,598) | 2,367 |
| Effect of movements in exchange rates | (13) | - | (13) |
| | <u>(60,898)</u> | <u>(196,393)</u> | <u>(257,291)</u> |
| Ending balance | ₩ <u>2,063,102</u> | <u>(1,943,644)</u> | <u>119,458</u> |

(*) Profit and loss related to defined benefit plans are included in the general administrative expense.

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25. Employee benefits (continued)

(b) Changes in the present value of defined benefit obligation and plan assets for the years ended December 31, 2019 and 2018 were as follows (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 | - | 79,038 |
| Experience adjustment | | (10,762) | - | (10,762) |
| - Return on plan assets excluding interest income | | - | 41,701 | 41,701 |
| | | 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.

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25. Employee benefits (continued)

(c) The composition of plan assets as of December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|-----------------------|--------------------|------------------|
| Plan assets comprise: | | |
| Equity securities | ₩ 256,353 | 257,581 |
| Debt securities | 28,094 | 817 |
| Due from banks | 1,577,274 | 1,394,634 |
| Other | 81,923 | 61,602 |
| | <u>₩ 1,943,644</u> | <u>1,714,634</u> |

(d) Actuarial assumptions as of December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> | <u>Description</u> |
|-----------------------------|--------------------------|--------------------------|---------------------------|
| Discount rate | 2.71%~3.17% | 3.02%~3.22% | AA0 corporate bond yields |
| Future salary increase rate | 1.80%~4.00% | 0.99%~3.40% | Average for 5 years |
| | + Upgrade rate | + Upgrade rate | |
| Weighted average maturity | 8.2 years~ 16.2 years | 7.7 years ~ 9.9 years | |

(e) Sensitivity analysis

As of December 31, 2019 and 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.

| | <u>2019</u> | |
|--|-----------------------------------|-----------------|
| | <u>Defined benefit obligation</u> | |
| | <u>Increase</u> | <u>Decrease</u> |
| Discount rate (1%p movement) | ₩ (201,770) | 233,057 |
| Future salary increase rate (1%p movement) | 231,967 | (204,242) |
| | <u>2018</u> | |
| | <u>Defined benefit obligation</u> | |
| | <u>Increase</u> | <u>Decrease</u> |
| Discount rate (1%p movement) | ₩ (159,549) | 180,542 |
| Future salary increase rate (1%p movement) | 176,924 | (159,169) |

26. Provisions

(a) Provisions as of December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|--------------------------------------|------------------|----------------|
| Asset retirement obligations | ₩ 64,922 | 49,183 |
| Expected loss related to litigation | 8,789 | 25,554 |
| Unused credit commitments | 263,752 | 232,347 |
| Financial guarantee contracts issued | 100,430 | 115,325 |
| Others | 119,131 | 86,007 |
| | <u>₩ 557,024</u> | <u>508,416</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

26. Provisions (continued)

(b) Changes in provision for unused credit commitments and financial guarantee contracts issued for the years ended December 31, 2019 and 2018 are as follows.:

| | 2019 | | | | | | | |
|--|--------------------------------|--------------------------------|--------------------------|--------------------------------------|--------------------------------|--------------------------|-------|---------|
| | Unused credit commitments | | | Financial guarantee contracts issued | | | Total | |
| | 12 months expected credit loss | Life time expected credit loss | Impaired financial asset | 12 months expected credit loss | Life time expected credit loss | Impaired financial asset | | |
| Beginning allowance | ₩ | 126,402 | 100,808 | 5,137 | 64,194 | 5,904 | 1,757 | 304,202 |
| Transfer to 12 months expected credit loss | | 42,838 | (42,728) | (110) | 2,629 | (2,629) | - | - |
| Transfer to life time expected credit loss | | (9,286) | 9,314 | (28) | (1,245) | 1,245 | - | - |
| Transfer to impaired financial asset | | (229) | (752) | 981 | (12) | - | 12 | - |
| Provided (reversed) | | (28,611) | 53,076 | 5,905 | (4) | 96 | (943) | 29,519 |
| FX change | | 914 | 121 | - | 1,302 | 323 | 102 | 2,762 |
| Others (*) | | - | - | - | 1,603 | 630 | (117) | 2,116 |
| Ending balance | ₩ | 132,028 | 119,839 | 11,885 | 68,467 | 5,569 | 811 | 338,599 |

(*) Others include effects of the provision from the new financial guarantee contracts measured at fair value, and the expired contracts, and the change of discount rate.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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December 31, 2019 and 2018

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26. Provisions (continued)

(b) Changes in provision for unused credit commitments and financial guarantee contracts issued for the years ended December 31, 2019 and 2018 are as follows (continued):

| | 2018 | | | | | | | |
|--|--------------------------------|--------------------------------|--------------------------|--------------------------------------|--------------------------------|--------------------------|-------|---------|
| | Unused credit commitments | | | Financial guarantee contracts issued | | | Total | |
| | 12 months expected credit loss | Life time expected credit loss | Impaired financial asset | 12 months 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 months 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 (*) | | - | - | - | 36,621 | 936 | (479) | 37,078 |
| Ending balance | ₩ | 126,402 | 100,808 | 5,137 | 64,194 | 5,904 | 1,757 | 304,202 |

(*) Others include effects of the provision from the new financial guarantee contracts measured at fair value, and the expired contracts, and the change of discount rate.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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December 31, 2019 and 2018

(In millions of won)

26. Provisions (continued)

(c) Changes in provisions for the years ended December 31, 2019 and 2018 are as follows:

| 2019 | | | | | |
|--------------------------------|---------------------|------------|-----------|----------|----------|
| | Asset retirement | Litigation | Guarantee | Other | Total |
| Beginning balance | ₩ 49,183 | 25,554 | 43,470 | 86,007 | 204,214 |
| Provision(reversal) | (1,280) | (981) | (19,329) | (5,753) | (27,343) |
| Provision used | (1,930) | (17,365) | - | (47,217) | (66,512) |
| Foreign exchange translation | - | - | 1,420 | 382 | 1,802 |
| Others(*) | 4,476 | - | 22 | 3,784 | 8,282 |
| Business combination (Note 47) | 14,473 | 1,581 | - | 81,928 | 97,982 |
| Ending balance | ₩ 64,922 | 8,789 | 25,583 | 119,131 | 218,425 |

(*)Others include the effects of unwinding and changes in discount rate.

| 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 |

(*1) In accordance with K-IFRS No. 1115, the Group has adjusted all bonus card point reward program related to customer loyalty programs.

(*2) Others include the effects of unwinding 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, 2019 and 2018 are as follows:

| | 2019 | 2018 |
|--|--------------|-------------|
| Guarantees and acceptances outstanding | ₩ 9,317,412 | 9,437,691 |
| Contingent guarantees and acceptances | 3,669,681 | 3,985,532 |
| ABS and ABCP purchase commitments | 2,116,354 | 2,083,522 |
| Endorsed bill | 11,287 | 37,667 |
| | ₩ 15,114,734 | 15,544,412 |
| Allowance for loss on guarantees and acceptances | ₩ 100,430 | 115,325 |
| Ratio | % | 0.66 |
| | | 0.74 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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December 31, 2019 and 2018

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27. Liability under insurance contracts

(a) Insurance liabilities as of December 31, 2019 and 2018 are as follows:

| | 2019 | 2018 |
|----------------------------------|---------------------|-------------------|
| Policy reserve | ₩ 52,086,132 | 26,211,044 |
| Policyholder's equity adjustment | 77,285 | 7,838 |
| | <u>₩ 52,163,417</u> | <u>26,218,882</u> |

(b) Policy reserve as of December 31, 2019 and 2018 are as follows:

| | 2019 | 2018 |
|----------------------|---------------------|-------------------|
| Interest rate linked | ₩ 30,058,020 | 17,328,353 |
| Fixed interest rate | 22,028,112 | 8,882,691 |
| | <u>₩ 52,086,132</u> | <u>26,211,044</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

27. Liability under insurance contracts (continued)

(c) The details of policy reserves as of December 31, 2019 and 2018 are as follows:

| | 2019 | | | | | | | |
|---|----------------------|------------|------------|------------|-----------------|---------|----------|------------|
| | Individual insurance | | | | Group insurance | | | |
| | Pure endowment | Death | Endowment | Subtotal | Pure protection | Savings | Subtotal | Total |
| Premium reserve | ₩ 14,668,777 | 24,979,936 | 10,443,287 | 50,092,000 | 21,912 | 60 | 21,972 | 50,113,972 |
| Guarantee reserve | 29,400 | 249,845 | 744 | 279,989 | - | - | - | 279,989 |
| Unearned premium reserve | 2 | 945 | - | 947 | 291 | - | 291 | 1,238 |
| Reserve for outstanding claims | 212,641 | 1,084,472 | 233,259 | 1,530,372 | 16,858 | - | 16,858 | 1,547,230 |
| Interest rate difference guarantee reserve | 2,158 | 149 | 10 | 2,317 | - | - | - | 2,317 |
| Mortality gains reserve | 8,945 | 42,173 | 153 | 51,271 | 2 | - | 2 | 51,273 |
| Interest gains reserve | 24,486 | 267 | 17 | 24,770 | - | - | - | 24,770 |
| Expense gains reserve | 6,211 | 9,434 | 1 | 15,646 | - | - | - | 15,646 |
| Long term duration dividend reserve | 31,202 | 15,388 | 13 | 46,603 | - | - | - | 46,603 |
| Reserve for policyholder's profit dividend | 2,268 | - | - | 2,268 | - | - | - | 2,268 |
| Reserve for losses on dividend insurance contract | 826 | - | - | 826 | - | - | - | 826 |
| | ₩ 14,986,916 | 26,382,609 | 10,677,484 | 52,047,009 | 39,063 | 60 | 39,123 | 52,086,132 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

27. Liability under insurance contracts (continued)

(c) The details of policy reserves as of December 31, 2019 and 2018 are as follows (continued):

| | | 2018 | | | | | | | |
|---|---|----------------------|-------------------|------------------|-------------------|-----------------|-----------|---------------|-------------------|
| | | Individual insurance | | | Group insurance | | | | |
| | | Pure endowment | Death | Endowment | Subtotal | Pure protection | Savings | Subtotal | Total |
| 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 policyholder's profit dividend | | 1,773 | - | - | 1,773 | - | - | - | 1,773 |
| Reserve for losses on dividend insurance contract | | 1,058 | - | - | 1,058 | - | - | - | 1,058 |
| | ₩ | <u>5,869,511</u> | <u>12,630,712</u> | <u>7,667,743</u> | <u>26,167,966</u> | <u>43,020</u> | <u>58</u> | <u>43,078</u> | <u>26,211,044</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

27. **Liability under insurance contracts (continued)**

(d) Reinsurance credit risk as of December 31, 2019 and 2018 are as follows:

| | 2019 | | 2018 | |
|------------|-----------------------|--------------------------------------|-----------------------|--------------------------------------|
| | Reinsurance assets | Reinsurance account receivable | Reinsurance assets | Reinsurance account receivable |
| AAA | ₩ 11,477 | 18,192 | - | - |
| AA- to AA+ | 34,498 | 46,302 | 2,451 | 4,416 |
| A- to A+ | 2,287 | 4,113 | 1,622 | 3,598 |
| | ₩ 48,262 | 68,607 | 4,073 | 8,014 |

(e) Income or expenses on insurance for the years ended December 31, 2019 and 2018 are as follows:

| | 2019 | 2018 |
|--|-------------|-----------|
| Insurance income: | | |
| Premium income | ₩ 7,386,854 | 4,348,745 |
| Reinsurance income | 146,564 | 15,222 |
| Separate account income | 36,007 | 34,771 |
| | 7,569,425 | 4,398,738 |
| Insurance expenses: | | |
| Claims paid | 5,436,069 | 2,549,147 |
| Reinsurance premium expenses | 165,979 | 18,482 |
| Provision for policy reserves (*) | 1,724,816 | 1,694,716 |
| Separate account expenses | 36,007 | 34,770 |
| Discount charge | 657 | 669 |
| Acquisition costs | 805,508 | 454,479 |
| Collection expenses | 19,049 | 16,046 |
| Deferred acquisition costs | (495,534) | (283,665) |
| Amortization of deferred acquisition costs | 373,800 | 385,793 |
| | 8,066,351 | 4,870,437 |
| Net loss on insurance | ₩ (496,926) | (471,699) |

(*) Interest expenses on savings insurance contracts are included. (Accumulated ₩1,907,954 million as of December 31, 2019 and accumulated ₩964,816 million as of December 31, 2018)

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

27. Liability under insurance contracts (continued)

(f) Maturity of premium reserve as of December 31, 2019 and 2018 are as follows:

| | | 2019 | | | | | | |
|----------------------|---|---------------------|----------------|----------------|-----------------|------------------|-----------------------|------------|
| | | Less than 1 year | 1 ~ 3 years | 3 ~ 7 years | 7 ~ 10 years | 10 ~ 20 years | More than 20 years | Total |
| Fixed interest rate | ₩ | 845,304 | 2,079,125 | 2,118,652 | 941,413 | 2,236,313 | 20,732,909 | 28,953,716 |
| Interest rate linked | | 213,892 | 329,647 | 1,032,366 | 572,153 | 2,058,859 | 16,953,340 | 21,160,257 |
| Ending balance | ₩ | 1,059,196 | 2,408,772 | 3,151,018 | 1,513,566 | 4,295,172 | 37,686,249 | 50,113,973 |

| | | 2018 | | | | | | |
|----------------------|---|---------------------|----------------|----------------|-----------------|------------------|-----------------------|------------|
| | | Less than 1 year | 1 ~ 3 years | 3 ~ 7 years | 7 ~ 10 years | 10 ~ 20 years | More than 20 years | Total |
| 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 – Shinhan Life Insurance Co., Ltd.

i) Scope

Liability adequacy tests were performed on the premium reserve, unearned premium reserve and guarantee reserve for the contracts held at December 31, 2019 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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

27. **Liability under insurance contracts (continued)**

(g) Liability adequacy test, LAT – Shinhan Life Insurance Co., Ltd. (continued)

iii) The assumptions of the current estimation used to assessment and their basis for calculation was as follows:

| | Assumptions | | Measurement basis |
|------------------------|--|--|---|
| | 2019 | 2018 | |
| Discount rate | 2.02% ~ 8.35% | 2.25% ~ 8.32% | The scenario adding liquidity premium to risk-free rate, which is suggested from Financial Supervisory Service |
| Mortality rate | 11.36% ~ 497.99% | 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 : 90.00% ~ 1,022.75% - From the second time : 0.00% ~ 193.50% Maintenance expense (each case): 1,229 won ~ 3,332 won Collection expenses (on gross premium): 0.05% ~ 1.27% | Acquisition cost - The first time : 90.00% ~ 982.70% - From the second time : 0.00% ~ 193.50% 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 | 0.76% ~ 33.03% | 0.95% ~ 48.35% | Surrender ratio by elapsed period, classes of sales channel, product of last 5 years |

iv) The result of liability adequacy test as of December 31, 2019 and 2018 are as follows:

| | 2019 | | |
|---------------------|---------------------|------------|------------------------|
| | Provisions for test | LAT base | Premium loss (surplus) |
| Participating: | | | |
| Fixed interest | ₩ 595,317 | 1,248,489 | 653,172 |
| Variable interest | 900,378 | 1,002,149 | 101,771 |
| | 1,495,695 | 2,250,638 | 754,943 |
| Non- Participating: | | | |
| Fixed interest | 6,608,221 | 3,079,715 | (3,528,506) |
| Variable interest | 14,563,065 | 12,340,762 | (2,222,303) |
| | 21,171,286 | 15,420,477 | (5,750,809) |
| | ₩ 22,666,981 | 17,671,115 | (4,995,866) |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

27. Liability under insurance contracts (continued)

(g) Liability adequacy test, LAT – Shinhan Life Insurance Co., Ltd. (continued)

iv) The result of liability adequacy test as of December 31, 2019 and 2018 are as follows (continued):

| | 2018 | | |
|---------------------|---------------------|-------------------|---------------------------|
| | Provisions for test | LAT base(*) | Premium loss (surplus) |
| Participating: | | | |
| Fixed interest | ₩ 589,618 | 1,322,481 | 732,863 |
| Variable interest | 859,858 | 939,791 | 79,933 |
| | <u>1,449,476</u> | <u>2,262,272</u> | <u>812,796</u> |
| Non- Participating: | | | |
| Fixed interest | 6,009,771 | 2,822,160 | (3,187,611) |
| Variable interest | 14,149,581 | 12,037,953 | (2,111,628) |
| | <u>20,159,352</u> | <u>14,860,113</u> | <u>(5,299,239)</u> |
| | <u>₩ 21,608,828</u> | <u>17,122,385</u> | <u>(4,486,443)</u> |

(*) It is recalculated in accordance with the revised discount rate calculation rules for the year December 31, 2019.

v) Sensitivity analysis as of December 31, 2019 and 2018 are as follows:

| | LAT fluctuation | |
|------------------------------------|------------------------|----------------|
| | 2019 | 2018(*) |
| Discount rate increased by 0.5% | ₩ (1,582,746) | (1,610,988) |
| Discount rate decreased by 0.5% | 1,906,134 | 1,938,357 |
| Operating expense increased by 10% | 292,246 | 229,339 |
| Mortality rate increased by 10% | 873,184 | 837,453 |
| Mortality rate increased by 5% | 438,685 | 420,774 |
| Surrender ratio increased by 10% | 373,062 | 291,806 |

(*) It is recalculated in accordance with the revised discount rate calculation rules for the year December 31, 2019.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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27. Liability under insurance contracts (continued)

(h) Liability adequacy test, LAT – Orange Life Insurance Co., Ltd.

i) Scope

Liability adequacy tests were performed on the premium reserve, unearned premium reserve and guarantee reserve for the contracts held at December 31, 2019. 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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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27. **Liability under insurance contracts (continued)**

(h) Liability adequacy test, LAT – Orange Life Insurance Co., Ltd. (continued)

iii) The assumptions of the current estimation used to assessment and their basis for calculation was as follows:

| | Assumptions | |
|------------------------|---|---|
| | 2019 | Measurement basis |
| Discount rate | 2.07% ~ 10.86% | The scenario adding liquidity premium to risk-free rate, which is suggested from Financial Supervisory Service |
| Mortality rate | 20.00% ~ 255.00% | 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 (each case): 5,500 won ~ 1,227,000 won - Proportional to annualized premium: 0.00% ~ 12.55% Maintenance expense (each case): 50 won ~ 32,500 won - Proportional to premium income: 0.42% ~ 3.45% - Proportional to surrender value: 0.12% | Based on the recent one-year experience statistics, the Company reflects the company's future business cost policy to calculate the unit business cost by cost driver by division (new contract cost / maintenance cost) and sales channel. However, temporary expenses incurred unusually is excluded. |
| Surrender ratio | 0.00% ~ 50.00% | Based on experience statistics for the last five years or more, annual premiums are calculated based on product group, payment method, channel, and elapsed period. Payment status (full payment and pension initiation) and tax benefits are included. |

iv) The result of liability adequacy test as of December 31, 2019 are as follows:

| | 2019 | | |
|---------------------|---------------------|-------------|------------------------|
| | Provisions for test | LAT base | Premium loss (surplus) |
| Participating: | | | |
| Fixed interest | ₩ 716,607 | 644,715 | (71,892) |
| Variable interest | 1,134,245 | 1,541,967 | 407,722 |
| | 1,850,852 | 2,186,682 | 335,830 |
| Non- Participating: | | | |
| Fixed interest | 9,296,542 | 4,629,266 | (4,667,276) |
| Variable interest | 9,236,731 | 8,635,022 | (601,709) |
| Variable type (*) | (268,818) | (1,882,573) | (1,613,755) |
| | 18,264,455 | 11,381,715 | (6,882,740) |
| | ₩ 20,115,307 | 13,568,397 | (6,546,910) |

(*) Variable type refers to a variable insurance.

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27. Liability under insurance contracts (continued)

(h) Liability adequacy test, LAT – Orange Life Insurance Co., Ltd. (continued)

v) Sensitivity analysis as of December 31, 2019 is as follows:

| | LAT fluctuation | |
|------------------------------------|-----------------|-------------|
| | 2019 | |
| Discount rate increased by 0.5% | ₩ | (1,203,136) |
| Discount rate decreased by 0.5% | | 1,686,867 |
| Operating expense increased by 10% | | 245,181 |
| Mortality rate increased by 10% | | 877,624 |
| Mortality rate increased by 5% | | 440,025 |
| Surrender ratio increased by 10% | | 421,767 |

28. Other liabilities

Other liabilities as of December 31, 2019 and 2018 are as follows:

| | 2019 | 2018 |
|---|---------------------|-------------------|
| Lease liabilities | ₩ 1,104,259 | - |
| Accounts payable | 11,894,764 | 9,748,168 |
| Accrued expenses | 3,502,538 | 3,267,188 |
| Dividend payable | 31,599 | 49,486 |
| Advance receipts | 173,850 | 131,386 |
| Unearned income | 294,710 | 236,827 |
| Withholding value-added tax and other taxes | 720,053 | 547,097 |
| Securities deposit received | 1,903,119 | 651,153 |
| Foreign exchange remittances pending | 243,532 | 225,956 |
| Domestic exchange remittances pending | 1,452,955 | 1,115,939 |
| Borrowing from trust account | 5,350,285 | 2,999,445 |
| Due to agencies | 744,660 | 779,473 |
| Deposits for subscription | 60,500 | 76,019 |
| Separate account liabilities | 8,700,695 | 2,845,380 |
| Sundry liabilities | 1,968,823 | 2,496,169 |
| Other | 151,056 | 50,881 |
| Present value discount | (59,840) | (20,888) |
| | ₩ <u>38,237,558</u> | <u>25,199,679</u> |

(*) As of December 31, 2019, the Group accounts for the lease liabilities as other liabilities. During the year ended December 31, 2019, the amount of variable lease payments that are not included in the measurement of lease liabilities is ₩189 million, cash outflows from leases are ₩275,218 million, and interest expense on lease liabilities is ₩11,291 million.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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29. Equity

(a) Equity as of December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|--|---------------------|-------------------|
| Capital stock: | | |
| Common stock | ₩ 2,370,998 | 2,370,998 |
| Preferred stock(*1) | 361,465 | 274,055 |
| | <u>2,732,463</u> | <u>2,645,053</u> |
| Hybrid bond | 1,731,235 | 1,531,759 |
| Capital surplus: | | |
| Share premium(*1) | 10,155,150 | 9,494,769 |
| Others | 410,203 | 400,719 |
| | <u>10,565,353</u> | <u>9,895,488</u> |
| Capital adjustments(*2) | (1,116,770) | (552,895) |
| Accumulated other comprehensive income, net of tax: | | |
| Gain on financial assets at fair value through other comprehensive income | 306,470 | 2,958 |
| Gain(Loss) on financial assets at fair value through profit or loss (overlay approach) | 71,621 | (79,057) |
| Equity in other comprehensive income of associates | 8,177 | 4,883 |
| Foreign currency translation adjustments for foreign operations | (217,465) | (321,853) |
| Net loss from cash flow hedges | (33,711) | (17,751) |
| Other comprehensive income of separate account | 14,539 | 4,112 |
| Actuarial losses | (401,532) | (346,682) |
| Changes in own credit risk on financial liabilities designated under fair value option | (8,255) | 170 |
| | <u>(260,156)</u> | <u>(753,220)</u> |
| Retained earnings(*3),(*4),(*5) | 25,525,821 | 22,959,440 |
| Non-controlling interest (*6),(*7) | 2,752,435 | 925,805 |
| | ₩ <u>41,930,381</u> | <u>36,651,430</u> |

(*1) For the year ended December 31, 2019, ₩750,000 million scale of convertible preferred share was issued. Investors may claim the conversion after one year from the date of issue to the day before the fourth year from the date of issue and convertible shares not converted until the fourth year from the date of issue will be automatically converted on the day of the fourth year from the date of issue.

(*2) The Group acquired treasury stocks through a treasury stock trust for the years ended December 31, 2019 and 2018 and has recognized the consideration paid in equity, directly. The Group entered into a shareholders' agreement to acquire additional shares in the Asia Trust Co., Ltd., resulting in decrease of ₩125,829 million in capital adjustment for the year ended December 31, 2019.

(*3) As of December 31, 2019 and 2018, profits reserved by the Group as of Article 53 of the Financial Holding Companies Act amounted to ₩2,191,677 million and ₩2,068,190 million, respectively.

(*4) As of December 31, 2019 and 2018, the regulatory reserves for loan losses the Group appropriated in retained earnings are ₩8,728 million and ₩7,572 million, respectively.

(*5) As of December 31, 2019, profit dividends within retained earnings of subsidiaries of the Group subject to a restricted dividend in accordance with laws, etc. are amounted to ₩6,419,934 million.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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(In millions of won, except per share data)

29. Equity (continued)

(a) Equity as of December 31, 2019 and 2018 are as follows (continued):

(*6) As of December 31, 2019 and 2018, the total amounts of hybrid bonds that Shinhan Bank, Jeju Bank and Shinhan Capital have recognized as non-controlling interests were ₩1,147,635 million and ₩748,497 million, respectively. And, as of December 31, 2019 and 2018, the amounts of dividends paid for the hybrid bonds by Shinhan Bank, Jeju Bank, and Shinhan Capital, ₩36,729 million and ₩27,546 million, respectively, are allocated to the net income of non-controlling interest.

(*7) The non-controlling interest of ₩1,250,333 million increased due to business combination with Orange Life Insurance Co.,Ltd and Asia Trust Co., Ltd. for the year ended December 31, 2019. (Note 47)

(b) Capital stock

Capital stock of the Group as of December 31, 2019 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 |
| Number of issued preferred stocks outstanding as of December 31,2019 | 17,482,000 |

(c) Hybrid bonds

Hybrid bonds classified as other equity instruments as of December 31, 2019 and December 31, 2018 are as follows:

| Issue date | Currency | Maturity date | Interest rate (%) | | 2019 | 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 | 134,678 |
| April 13, 2018 | " | - | 4.56 | | 14,955 | 14,955 |
| August 29, 2018 | " | - | 4.15 | | 398,679 | 398,679 |
| June 28, 2019 | " | - | 3.27 | | 199,476 | - |
| August 13, 2018 | USD | - | 5.88 | | 559,526 | 559,526 |
| | | | | ₩ | <u>1,731,235</u> | <u>1,531,759</u> |

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.

(d) Capital adjustments

Changes in capital adjustments for the years ended December 31, 2019 and 2018 are as follows:

| | | 2019 | 2018 |
|---|---|--------------------|------------------|
| Beginning balance | ₩ | (552,895) | (398,035) |
| Acquisition of stocks | | (444,077) | (155,923) |
| The Acquisition commitment amount for subsidiaries's remaining shares | | (125,830) | - |
| Other transactions with owners | | 6,032 | 1,063 |
| Ending balance | ₩ | <u>(1,116,770)</u> | <u>(552,895)</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

29. Equity (continued)

(e) Accumulated other comprehensive income

Changes in accumulated other comprehensive income for the years ended December 31, 2019 and 2018 are as follows:

| | 2019 | | | | | | | | | | |
|---|---|--|--|---|---------------------------------------|--|---|--|---|---|-----------|
| | Items that are or may be reclassified to profit or loss | | | | | | Items that will never 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 gain (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 asset at fair value through other comprehensive income | Gain (loss) on financial Liabilities measured at FVTPL attributable to changes in credit risk | Total |
| Beginning balance | ₩ (51,300) | (79,057) | 4,891 | (321,853) | (17,751) | 4,112 | (346,682) | (8) | 54,258 | 170 | (753,220) |
| Change due to fair value | 491,953 | 225,706 | 3,353 | - | - | 14,382 | - | (11) | 19,935 | (11,621) | 743,697 |
| Reclassification: | | | | | | | | | | | |
| Change due to impairment or disposal | (23,281) | - | - | - | - | - | - | - | - | - | (23,281) |
| Effect of hedge accounting | - | - | - | - | (75,020) | - | - | - | - | - | (75,020) |
| Hedging | (731) | - | - | (49,361) | 50,083 | - | - | - | - | - | (9) |
| Effects from exchange rate fluctuations | - | - | - | 147,899 | - | - | - | - | 293 | - | 148,192 |
| Remeasurements of the defined benefit plans | - | - | - | - | - | - | (75,595) | - | - | - | (75,595) |
| Deferred income taxes | (115,856) | (62,739) | (51) | 7,233 | 6,348 | (3,955) | 20,951 | 3 | (7,204) | 3,196 | (152,074) |
| Transfer to other account | - | - | - | - | - | - | - | - | 5,860 | - | 5,860 |
| Non-controlling interests | (67,457) | (12,289) | - | (1,383) | 2,629 | - | (206) | - | - | - | (78,706) |
| Ending balance | ₩ 233,328 | 71,621 | 8,193 | (217,465) | (33,711) | 14,539 | (401,532) | (16) | 73,142 | (8,255) | (260,156) |

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(In millions of won)

29. Equity (continued)

(e) Accumulated other comprehensive income (continued)

Changes in accumulated other comprehensive income for the years ended December 31, 2019 and 2018 are as follows (continued):

| | 2018 | | | | | | | | | | | |
|---|---|--|--|---|---------------------------------------|--|---|--|---|---|-----------|-------|
| | Items that are or may be reclassified to profit or loss | | | | | | Items that will never be reclassified to profit or loss | | | | | Total |
| | 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 gain (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 asset 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) | (806,745) | |
| 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 | - | - | - | - | - | - | - | 28,915 | |
| Effect of hedge accounting | - | - | - | - | (92,272) | - | - | - | - | - | (92,272) | |
| Hedging | (2,365) | - | - | (35,879) | 60,501 | - | - | - | - | - | 22,257 | |
| Effects from exchange 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 | - | - | - | - | - | - | - | 10 | 2,635 | - | 2,645 | |
| Non-controlling interests | (1,305) | - | - | 482 | - | - | 411 | - | - | - | (412) | |
| Ending balance | ₩ (51,300) | (79,057) | 4,891 | (321,853) | (17,751) | 4,112 | (346,682) | (8) | 54,258 | 170 | (753,220) | |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

29. Equity (continued)

(f) Appropriation of retained earnings

Statements of appropriation of retained earnings for the years ended December 31, 2019 and 2018 are as follows:

| | 2019 | 2018 |
|---|--------------------|------------------|
| | March 26, 2020 | March 27, 2019 |
| Date of appropriation: | | |
| Unappropriated retained earnings: | | |
| Balance at beginning of year | ₩ 5,184,339 | 4,867,521 |
| Net effect due to change in accounting policy | - | (23) |
| Dividend to hybrid bonds | (61,993) | (40,357) |
| Net income | 1,129,173 | 1,234,883 |
| | <u>6,251,519</u> | <u>6,062,024</u> |
| Appropriation of retained earnings: | | |
| Legal reserve | (112,917) | (123,488) |
| Dividends | | |
| Dividends on common stocks paid | (851,587) | (753,041) |
| Dividends on preferred stocks paid | (32,342) | - |
| Regulatory reserve for loan losses | (3,260) | (1,156) |
| | <u>(1,000,106)</u> | <u>(877,685)</u> |
| Unappropriated retained earnings to be carried over to subsequent year | ₩ 5,251,413 | 5,184,339 |

(*) These statements of appropriation of retained earnings are 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 K-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, 2019 and 2018 are as follows:

| | 2019 | 2018 |
|--|--------------------|------------------|
| Beginning balance | ₩ 2,844,690 | 2,885,018 |
| K-IFRS No. 1109 adoption | - | (388,551) |
| Business combination | 25,608 | - |
| Planned regulatory reversal of loan losses | 290,872 | 348,223 |
| Ending balance | <u>₩ 3,161,170</u> | <u>2,844,690</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won, except per share data)

29. Equity (continued)

(g) Regulatory reserve for loan losses (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, 2019 and 2018 are as follows:

| | | <u>2019</u> | <u>2018</u> |
|--|---|------------------|------------------|
| Profit attributable to equity holders of Shinhan Financial Group | ₩ | 3,403,497 | 3,156,722 |
| Provision for regulatory reserve for loan losses (*1) | | (292,728) | (348,127) |
| Profit attributable to equity holders of Shinhan Financial Group adjusted for regulatory reserve | ₩ | <u>3,110,769</u> | <u>2,808,595</u> |
| Basic and diluted earnings per share adjusted for regulatory reserve in won(*2) | | 6,387 | 5,844 |

(*1) The increase in reserve for credit losses, ₩25,608 million, due to the business combination with Orange Life insurance and Asia Trust. during the year is excluded.

(*2) Dividends for hybrid bonds are deducted.

(h) Treasury stock

The acquisitions of treasury stock as of December 31, 2019 and 2018 are as follows::

| | | 2019 | | |
|---------------------|---|--------------------------|--------------------|-----------------------|
| | | <u>Beginning balance</u> | <u>Acquisition</u> | <u>Ending balance</u> |
| The number of share | | 3,648,659 | 10,233,403 | 13,882,062 |
| Carrying value | ₩ | 155,923 | 444,077 | 600,000 |

(*) The Group entered into a treasury stock trust agreement with Samsung Securities Co., Ltd., and acquired treasury stocks.

| | | 2018 | | |
|---------------------|---|--------------------------|--------------------|-----------------------|
| | | <u>Beginning balance</u> | <u>Acquisition</u> | <u>Ending balance</u> |
| The number of share | | - | 3,648,659 | 3,648,659 |
| Carrying value | ₩ | - | 155,923 | 155,923 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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December 31, 2019 and 2018

(In millions of won, except per share data)

30. Dividends

(a) Details of dividends recognized as distributions to stockholders for the years ended December 31, 2019 and 2018 are as follows:

| | | <u>2019 (*1)</u> | <u>2018</u> |
|---|---|------------------|-------------|
| Common Stock | | | |
| 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 | | 1,850 | 1,600 |
| Dividends(*2) | ₩ | 851,587 | 753,041 |
| Dividend rate per share | % | 37.0 | 32.0 |
| Preferred Stock | | | |
| Total number of shares issued and outstanding | ₩ | 17,482,000 | - |
| Par value per share in won | | 5,000 | - |
| Dividend per share in won | | 1,850 | - |
| Dividends | ₩ | 32,342 | - |
| Dividend rate per share | % | 37.0 | - |

(*1) The dividend is the amount of dividend that will be paid on March 26, 2020 and is not recognized as a distribution to the owners during the year.

(*2) Dividends on own shares held by the Group are excluded.

(b) Dividend for hybrid bond was calculated as follows for the years ended December 31, 2019 and 2018:

| | | <u>2019</u> | <u>2018</u> |
|-----------------------|---|-------------|-------------|
| Amount of hybrid bond | ₩ | 1,738,150 | 1,538,150 |
| Interest rate | % | 3.27 ~ 5.88 | 3.77 ~ 5.88 |
| Dividend | ₩ | 61,993 | 40,357 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

31. Net interest income

Net interest income for the years ended December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|-------------------------------------|--------------------|--------------------|
| Interest income: | | |
| Cash and deposits at amortized cost | ₩ 210,415 | 155,075 |
| Deposits at FVTPL | 31,506 | 33,845 |
| Securities at FVTPL | 740,378 | 623,651 |
| Securities at FVOCI | 1,077,995 | 759,301 |
| Securities at amortized cost | 1,061,262 | 730,382 |
| Loans at amortized cost | 12,435,302 | 11,158,558 |
| Loans at FVTPL | 56,961 | 23,110 |
| Others | 93,543 | 88,534 |
| | <u>15,707,362</u> | <u>13,572,456</u> |
| Interest expense: | | |
| Deposits | (3,644,632) | (3,091,659) |
| Borrowings | (551,416) | (468,068) |
| Debt securities issued | (1,666,257) | (1,336,840) |
| Others | (107,093) | (95,800) |
| | <u>(5,969,398)</u> | <u>(4,992,367)</u> |
| Net interest income | ₩ <u>9,737,964</u> | <u>8,580,089</u> |

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(In millions of won)

32. Net fees and commission income

Net fees and commission income for the years ended December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|--|--------------------|--------------------|
| Fees and commission income: | | |
| Credit placement fees | ₩ 66,666 | 62,766 |
| Commission received as electronic charge receipt | 151,584 | 146,309 |
| Brokerage fees | 353,382 | 412,165 |
| Commission received as agency | 140,484 | 120,508 |
| Investment banking fees | 151,031 | 91,273 |
| Commission received in foreign exchange activities | 244,325 | 214,395 |
| Asset management fees | 307,167 | 235,275 |
| Credit card fees | 1,234,239 | 1,360,322 |
| Operating lease fees (*) | 142,025 | 82,141 |
| Others | 766,110 | 570,102 |
| | <u>3,557,013</u> | <u>3,295,256</u> |
| Fees and commission expense: | | |
| Credit-related fee | (42,023) | (36,817) |
| Credit card fees | (915,521) | (944,533) |
| Others | (458,950) | (374,909) |
| | <u>(1,416,494)</u> | <u>(1,356,259)</u> |
| Net fees and commission income | ₩ <u>2,140,519</u> | <u>1,938,997</u> |

(*) Among operating lease fees recognized during the current period, there is no variable lease fee income which does not vary by index or rate.

33. Dividend income

Dividend income for the years ended December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|---------------------|-----------------|---------------|
| Securities at FVTPL | ₩ 65,572 | 70,955 |
| Securities at FVOCI | 16,586 | 16,871 |
| | <u>₩ 82,158</u> | <u>87,826</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

34. 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 ended December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|--|--------------------|------------------|
| Net gain (loss) on deposits measured at FVTPL | | |
| Gain (loss) on valuation | ₩ 87,374 | (61,848) |
| Gain on sale | 13,400 | - |
| | <u>100,774</u> | <u>(61,848)</u> |
| Net gain (loss) on loans measured at FVTPL | | |
| Gain (loss) on valuation | (248,032) | 916 |
| Gain on sale | 10,395 | 9,133 |
| | <u>(237,637)</u> | <u>10,049</u> |
| Net gain (loss) on securities measured at FVTPL | | |
| Debt securities | | |
| Gain on valuation | 137,181 | 111,029 |
| Gain on sale | 125,431 | 78,718 |
| Other gains | 297,024 | 223,731 |
| | <u>559,636</u> | <u>413,478</u> |
| Equity securities | | |
| Gain on valuation | 141,246 | 286,801 |
| Gain (loss) on sale | 183,969 | (275,356) |
| | <u>325,215</u> | <u>11,445</u> |
| Other | | |
| Gain on valuation | 28,803 | 19,086 |
| Net gain (loss) on financial liabilities measured at FVTPL | | |
| Debt securities | | |
| Loss on valuation | (16,810) | (115,667) |
| Gain (loss) on disposition | (35,710) | 268,932 |
| | <u>(52,520)</u> | <u>153,265</u> |
| Other | | |
| Loss on valuation | (91,025) | (14,892) |
| Gain on disposition | 4,169 | 1,394 |
| | <u>(86,856)</u> | <u>(13,498)</u> |
| Derivatives: | | |
| Gain (loss) on valuation | 388,880 | (291,879) |
| Gain on transaction | 359,187 | 179,928 |
| | <u>748,067</u> | <u>(111,951)</u> |
| | <u>₩ 1,385,482</u> | <u>420,026</u> |

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35. Net gain (loss) on financial instruments designated at fair value through profit or loss

Net gain (loss) on financial instruments designated at fair value through profit or loss for the years ended December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|--|--------------------|-----------------|
| Financial assets designated at fair value through profit or loss: | | |
| Equity securities: | | |
| Loss on sale | ₩ - | (4,737) |
| Financial liabilities designated at fair value through profit or loss: | | |
| Borrowings: | | |
| Gain (loss) on valuation | (33,871) | 382,667 |
| Loss on sale and redemption | (812,175) | (404,573) |
| | ₩ <u>(846,046)</u> | <u>(26,643)</u> |

36. Provision for allowance for credit loss

Provision for allowance for credit loss on financial assets for the years ended December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|---|--------------------|------------------|
| Loans at amortized cost | ₩ (910,898) | (704,515) |
| Other financial assets at amortized cost | (33,945) | (24,070) |
| Securities at fair value through other comprehensive income | (5,787) | (12,066) |
| Others (unused credit line and financial guarantee, etc) | (29,519) | (4,826) |
| Securities at amortized cost | (543) | (2,400) |
| | ₩ <u>(980,692)</u> | <u>(747,877)</u> |

37. General and administrative expenses

General and administrative expenses for the years ended December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|----------------------|--------------------|------------------|
| Employee benefits: | | |
| Salaries | ₩ 2,918,065 | 2,736,604 |
| Severance benefits: | | |
| Defined contribution | 35,972 | 23,745 |
| Defined benefit | 168,732 | 133,749 |
| Termination benefits | 122,732 | 115,275 |
| | <u>3,245,501</u> | <u>3,009,373</u> |
| Entertainment | 36,931 | 30,442 |
| Depreciation | 479,657 | 171,771 |
| Amortization | 99,208 | 73,575 |
| Taxes and dues | 197,691 | 176,133 |
| Advertising | 265,739 | 287,688 |
| Research | 17,742 | 13,928 |
| Others | 792,205 | 978,665 |
| | ₩ <u>5,134,674</u> | <u>4,741,575</u> |

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38. Share-based payments

(a) Stock options granted as of December 31, 2019 are as follows:

| | <u>5th grant(*1)</u> | <u>6th grant(*1)</u> | <u>7th grant(*1)(*2)</u> |
|--------------------------------------|----------------------|----------------------|--|
| Type | Cash payment | Cash payment | Cash payment |
| Grant date | March 21, 2006 | March 20, 2007 | March 19, 2008 |
| Exercise price in won | ₩ 38,829 | ₩ 54,560 | ₩ 49,053 |
| Number of shares granted | 3,296,200 | 1,301,050 | 808,700 |
| Options expiry dates | August 21, 2019 | August 19, 2020 | May 17, 2021/ September 17, 2021 |
| Changes in number of shares granted: | | | |
| Balance at January 1, 2019 | 2,500 | 58,764 | 45,628 |
| Exercised and cancelled | 2,500 | - | 9,466 |
| Balance at December 31, 2019 | <u>-</u> | <u>58,764</u> | <u>36,162</u> |
| Fair value per share in won | - | ₩ 88 | ₩ 1,122 (Expiration of contractual exercise period : May 17, 2021) ₩ 1,301 (Expiration of contractual exercise period : Sep 17, 2021) |

(*1) The weighted average exercise price for 94,926 stock options outstanding at December 31, 2019 is ₩52,462.

(*2) As of December 31, 2019, the exercise of the remaining for 9,466 stock options (7th grant) was cancelled.

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(In millions of won, except per share data)

38. Share-based payments (continued)

(b) Performance shares granted as of December 31, 2019 are as follows:

| | Expired | Not expired |
|--|--|--------------------|
| Type | Cash-settled share-based payment | |
| Performance conditions | Increase rate of the stock price and achievement of target ROE | |
| Operating period | 4 or 5 years | |
| Estimated number of shares vested at December 31, 2019 | 20,427 | 2,074,713 |
| Fair value per share in won | ₩40,889, ₩45,766, ₩49,405, ₩40,580, ₩44,222, for the expiration of operating period from 2015 to 2019 | ₩43,350 |

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.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

38. Share-based payments (continued)

(c) Share-based compensation costs for the years ended December 31, 2019 and 2018 were as follows:

| | 2019 | | |
|------------------------|----------------------------|------------------|---------------|
| | Employees of | | |
| | The controlling company | The subsidiaries | Total |
| Stock options granted: | | | |
| 5th | ₩ - | 9 | 9 |
| 6th | (3) | (15) | (18) |
| 7th | (5) | (6) | (11) |
| Performance share | 4,678 | 32,646 | 37,324 |
| | ₩ <u>4,670</u> | <u>32,634</u> | <u>37,304</u> |
| | | | |
| | 2018 | | |
| | Employees of | | |
| | The controlling company | 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 |
| | ₩ <u>1,072</u> | <u>9,510</u> | <u>10,582</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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38. Share-based payments (continued)

(d) Accrued expenses and the intrinsic value as of December 31, 2019 and 2018 are as follows:

| | 2019 | | |
|------------------------|----------------------------|------------------|--------|
| | Accrued expenses(*) | | |
| | The controlling company | The subsidiaries | Total |
| Stock options granted: | | | |
| 6th | ₩ 1 | 4 | 5 |
| 7th | 19 | 27 | 46 |
| Performance share | 10,003 | 81,352 | 91,355 |
| | ₩ 10,023 | 81,383 | 91,406 |

(*)The intrinsic value of share-based payments is ₩91,355 million as of December 31, 2019. For calculating, the quoted market price ₩43,350 per share was used for stock options and the fair value was considered as intrinsic value for performance shares, respectively.

| | 2018 | | |
|------------------------|----------------------------|------------------|--------|
| | Accrued expenses(*) | | |
| | The controlling company | The subsidiaries | Total |
| Stock options granted: | | | |
| 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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39. Net other operating expense

Other operating income and other operating expense for the years ended December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|---|----------------------|--------------------|
| Other operating income | | |
| Gain on sale of assets: | | |
| Loans at amortized cost | ₩ 18,298 | 40,624 |
| Others: | | |
| Gain on hedged items | 564,438 | 418,390 |
| Reversal of allowance for acceptances and guarantee | 19,329 | 2,834 |
| Gain on trust account | 27 | - |
| Reversal of other allowance | 11,194 | 5,033 |
| Others | 97,777 | 131,345 |
| | <u>692,765</u> | <u>557,602</u> |
| | <u>711,063</u> | <u>598,226</u> |
| Other operating expense | | |
| Loss on sale of assets: | | |
| Loans at amortized cost | (27,291) | (14,271) |
| Others: | | |
| Loss on hedged items | (596,533) | (406,872) |
| Contribution | (311,336) | (283,331) |
| Provision for other allowance | (6,939) | (13,036) |
| Depreciation of operating lease assets | (98,288) | (56,570) |
| Others | (857,918) | (653,501) |
| | <u>(1,871,014)</u> | <u>(1,413,310)</u> |
| | <u>(1,898,305)</u> | <u>(1,427,581)</u> |
| Net other operating expenses | ₩ <u>(1,187,242)</u> | <u>(829,355)</u> |

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Notes to the Consolidated Financial Statements

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(In millions of won)

40. Net other non-operating income

Other non-operating income and other non-operating expense for the years ended December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|---|--------------------|------------------|
| Other non-operating income | | |
| Gain on disposal of assets: | | |
| Property and equipment (*) | ₩ 1,452 | 12,611 |
| Investment property | 12,640 | 4,783 |
| Lease assets | 1,681 | 1,153 |
| Right-of-use assets | 1,112 | - |
| Others | 407 | - |
| | <u>17,292</u> | <u>18,547</u> |
| Gain on disposal of Investments in associates | 3,461 | 17,427 |
| Others: | | |
| Rental income on investment property | 43,777 | 32,488 |
| Reversal of impairment losses on intangible asset | 438 | 62 |
| Gain from assets contributed | 86 | 77 |
| Others | 82,879 | 49,276 |
| | <u>127,180</u> | <u>81,903</u> |
| | <u>147,933</u> | <u>117,877</u> |
| Other non-operating expense | | |
| Loss on disposal of assets: | | |
| Property and equipment (*) | (870) | (3,082) |
| Investment property | - | (2,958) |
| Lease assets | (3,221) | (3,964) |
| Right-of-use assets | (306) | - |
| Others | - | (3) |
| | <u>(4,397)</u> | <u>(10,007)</u> |
| Loss on disposal of investments in associates | (3,974) | (11,546) |
| Impairment loss on investments in associates | - | (5,849) |
| | <u>(3,974)</u> | <u>(17,395)</u> |
| Others: | | |
| Donations | (94,937) | (88,650) |
| Depreciation of investment properties | (17,565) | (16,917) |
| Impaired loss on intangible assets | (152,081) | (771) |
| Write-off of intangible assets | (9,221) | (1,537) |
| Collecting of written-off expenses | (7,322) | (6,048) |
| Others | (46,465) | (26,844) |
| | <u>(327,591)</u> | <u>(140,767)</u> |
| | <u>(335,962)</u> | <u>(168,169)</u> |
| Net other non-operating loss | ₩ <u>(188,029)</u> | <u>(50,292)</u> |

(*) Gains or losses on sale and leaseback transactions are included in gains or losses on disposal of property and equipment respectively, and there are no gains or losses recognized on sale and leaseback transactions for the year ended December 31, 2019.

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December 31, 2019 and 2018

(In millions of won)

41. Income tax expense

(a) Income tax expense for the years ended December 31, 2019 and 2018 are as follows:

| | 2019 | 2018 |
|---|--------------------|------------------|
| Current income tax expense | ₩ 1,115,724 | 896,755 |
| Temporary differences | 296,244 | 383,190 |
| Income tax recognized in other comprehensive income | (142,844) | (11,600) |
| Income tax expenses | ₩ <u>1,269,124</u> | <u>1,268,345</u> |

(b) Income tax expense calculated by multiplying net income before tax with the tax rate for the years ended December 31, 2019 and 2018 are as follows:

| | 2019 | 2018 |
|-------------------------------------|--------------------|------------------|
| Profit before income taxes | ₩ 4,911,508 | 4,466,610 |
| Income taxes at statutory tax rates | 1,345,187 | 1,222,840 |
| Adjustments: | | |
| Non-taxable income | 8,500 | (9,561) |
| Non-deductible expense | 18,461 | 12,854 |
| Tax credit | (2,289) | (23,317) |
| Other | (100,735) | 65,529 |
| Income tax expense | ₩ <u>1,269,124</u> | <u>1,268,345</u> |
| Effective tax rate | % 25.84 | 28.40 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

41. 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, 2019 and 2018 are as follows:

| | 2019 | | | | |
|--|----------------------|-------------------------|------------------|----------------------------------|----------------------|
| | Beginning Balance | Business combination | Profit or loss | Other comprehensive income | Ending Balance(*) |
| Unearned income | ₩ (255,336) | (62,077) | (14,266) | - | (331,679) |
| Account receivable | (24,139) | - | (2,185) | - | (26,324) |
| Financial assets at fair value through profit or loss | 48,277 | 9,284 | (20,972) | (56,654) | (20,065) |
| Securities at fair value through other comprehensive income | 177,358 | (554,017) | 425,491 | (130,344) | (81,512) |
| Investment in associates | 24,743 | - | (5,937) | (48) | 18,758 |
| Valuation and depreciation of property and equipment | (161,996) | - | 10,950 | - | (151,046) |
| Derivative asset (liability) | 111,751 | (1,132) | (97,147) | 7,533 | 21,005 |
| Deposits | 28,036 | - | 2,605 | - | 30,641 |
| Accrued expenses | 132,689 | 15,298 | (2,493) | - | 145,494 |
| Defined benefit obligation | 447,658 | 4,805 | 33,321 | 20,348 | 506,132 |
| Plan assets | (446,323) | (4,610) | (57,165) | 958 | (507,140) |
| Other provisions | 194,475 | 2,283 | 16,297 | - | 213,055 |
| Allowance for acceptances and guarantees | 29,157 | 42,234 | 8,623 | - | 80,014 |
| Allowance related to asset revaluation | (49,713) | - | - | - | (49,713) |
| Allowance for expensing depreciation | (465) | - | 64 | - | (401) |
| Deemed dividend | - | - | - | - | - |
| Accrued contributions | 21,711 | - | 15,107 | - | 36,818 |
| Financial instruments designated at fair value through profit of loss | (87,408) | - | 130,225 | - | 42,817 |
| Allowances | 48,784 | - | (10,716) | - | 38,068 |
| Fictitious dividend | 1,325 | - | 16 | - | 1,341 |
| Liability under insurance contracts | 22,593 | - | 1,554 | - | 24,147 |
| Deficit carried over | - | - | - | - | - |
| Other | (225,676) | 204,351 | (537,808) | 15,363 | (543,770) |
| | <u>37,501</u> | <u>(343,581)</u> | <u>(104,436)</u> | <u>(142,844)</u> | <u>(553,360)</u> |
| Expired unused tax losses: | | | | | |
| Extinguishment of deposit and insurance liabilities | 367,444 | - | (47,433) | - | 320,011 |
| | <u>₩ 404,945</u> | <u>(343,581)</u> | <u>(151,869)</u> | <u>(142,844)</u> | <u>(233,349)</u> |

(*) Deferred tax assets from overseas subsidiaries were increased by ₩1,530 million due to foreign exchange rate movements.

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December 31, 2019 and 2018

(In millions of won)

41. 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, 2019 and 2018 are as follows (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) |
| | <u>412,299</u> | <u>(363,198)</u> | <u>(11,600)</u> | <u>37,501</u> |
| Expired unused tax losses: | | | | |
| Extinguishment of deposit and insurance liabilities | 375,807 | (8,363) | - | 367,444 |
| | <u>₩ 788,106</u> | <u>(371,561)</u> | <u>(11,600)</u> | <u>404,945</u> |

(*1) Changes in the scope of application of K-IFRS No.1109 and 1115 have been reflected.

(*2) Deferred tax assets from overseas subsidiaries were increased by ₩29 million due to foreign exchange rate movements.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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41. Income tax expense (continued)

(d) Deferred tax assets and liabilities that were directly charged or credited to equity for the years ended December 31, 2019 and 2018 are as follows:

| | <u>January 1, 2019</u> | | <u>Changes</u> | | <u>December 31, 2019</u> | |
|---|------------------------|-------------------|----------------|-------------------|--------------------------|-------------------|
| | <u>OCI</u> | <u>Tax effect</u> | <u>OCI</u> | <u>Tax effect</u> | <u>OCI</u> | <u>Tax effect</u> |
| Gain (loss) on valuation of financial assets measured at FVOCI | ₩ 11,713 | (8,754) | 427,657 | (124,147) | 439,370 | (132,901) |
| Gain (loss) on financial liabilities measured at FVTPL attributable to changes in credit risk | 235 | (65) | (11,621) | 3,196 | (11,386) | 3,131 |
| Foreign currency translation adjustments for foreign operations | (306,766) | (15,087) | 98,418 | 5,970 | (208,348) | (9,117) |
| Gain (loss) on cash flow hedge | (24,485) | 6,733 | (23,492) | 7,533 | (47,977) | 14,266 |
| Equity in other comprehensive income of associates | 4,957 | (74) | 3,343 | (48) | 8,300 | (122) |
| The accumulated other comprehensive income in separate account(*) | 5,672 | (1,560) | 14,382 | (3,955) | 20,054 | (5,515) |
| Remeasurements of the defined benefit liability | (477,382) | 130,700 | (76,156) | 21,306 | (553,538) | 152,006 |
| Gain (loss) on valuation of financial asset measured at FVTPL (Overlay approach) | <u>(108,655)</u> | <u>29,597</u> | <u>207,333</u> | <u>(56,654)</u> | <u>98,678</u> | <u>(27,057)</u> |
| Income tax charged or credited directly to equity | ₩ <u>(894,711)</u> | <u>141,490</u> | <u>639,864</u> | <u>(146,799)</u> | <u>(254,847)</u> | <u>(5,309)</u> |

| | <u>January 1, 2018</u> | | <u>Changes</u> | | <u>December 31, 2018</u> | |
|---|------------------------|-------------------|-----------------|-------------------|--------------------------|-------------------|
| | <u>OCI</u> | <u>Tax effect</u> | <u>OCI</u> | <u>Tax effect</u> | <u>OCI</u> | <u>Tax effect</u> |
| 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(*) | (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) | <u>(33,713)</u> | <u>8,988</u> | <u>(74,942)</u> | <u>20,609</u> | <u>(108,655)</u> | <u>29,597</u> |
| Income tax charged or credited directly to equity | ₩ <u>(963,126)</u> | <u>156,381</u> | <u>68,415</u> | <u>(14,891)</u> | <u>(894,711)</u> | <u>141,490</u> |

(*) Deferred tax effects, which are originated from the accumulated other comprehensive income in separate account, were included in the other liabilities of separate account's financial statement.

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41. 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, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|------------------------|-------------|-------------|
| 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, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|--------------------------|-------------|-------------|
| Investment in associates | ₩ (766,888) | (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, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|--------------------------|-------------|-------------|
| Deferred tax assets | ₩ 518,337 | 483,517 |
| Deferred tax liabilities | (751,686) | (78,572) |

(h) As of December 31, 2019, the Group has filed a dispute against the tax authorities and the courts for the refund of the corporate tax on seven cases (claim amount: ₩ 34,449 million). If the likelihood of winning a lawsuit increases, the Group will recognize the related assets.

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42. Earnings per share

Basic and diluted earnings per share for the years ended December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|--|--------------------|------------------|
| Profit attributable to equity holders of Shinhan Financial Group | ₩ 3,403,497 | 3,156,722 |
| Less: | | |
| Dividends to hybrid bond | (61,993) | (40,357) |
| Net profit available for common stock | <u>₩ 3,341,504</u> | <u>3,116,365</u> |
| Weighted average number of common shares outstanding(*) | 477,346,731 | 473,649,076 |
| Basic and diluted earnings per share in won | <u>₩ 7,000</u> | <u>6,579</u> |

(*) The number of basic ordinary shares outstanding is 474,199,587 shares and the above weighted-average stocks are calculated by reflecting treasury stocks issued and 17,482,000 shares of convertible preferred shares issued on May 1, 2019. If the convertible preferred shares issued during the year are not included in common stocks, the basic and diluted earnings per share of the net profit of the Group is ₩7,176.

43. Commitments and contingencies

(a) Guarantees, acceptances and credit commitments as of December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|--------------------------------------|----------------------|--------------------|
| Guarantees: | | |
| Guarantees outstanding | ₩ 9,319,885 | 9,437,691 |
| Contingent guarantees | 3,669,697 | 3,985,532 |
| | <u>12,989,582</u> | <u>13,423,223</u> |
| Commitments to extend credit: | | |
| Loan commitments in won | 74,393,722 | 69,906,336 |
| Loan commitments in foreign currency | 22,542,776 | 19,967,297 |
| ABS and ABCP commitments | 2,116,354 | 2,083,522 |
| Others | 81,387,165 | 73,816,233 |
| | <u>180,440,017</u> | <u>165,773,388</u> |
| Endorsed bills: | | |
| Secured endorsed bills | 11,287 | 37,667 |
| Unsecured endorsed bills | 6,737,097 | 7,758,242 |
| | <u>6,748,384</u> | <u>7,795,909</u> |
| Loans sold with recourse | 2,099 | 2,099 |
| | <u>₩ 200,180,082</u> | <u>186,994,619</u> |

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43. Commitments and contingencies (continued)

(b) Legal contingencies

The Group's pending lawsuits as a defendant as of December 31, 2019 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. | ₩ 10,767 |
| 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. In 2015 and 2017, the plaintiffs prevailed, but the first and second decisions were different. | 6,893 |
| 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. As a result, the lawsuit has been commissioned by the legal firm proceed a Matron's private lawsuit related the Group. | 5,575 |
| Others | 425 | Compensation for a loss claim, etc. | 234,131 |
| | 428 | | ₩ 257,366 |

As of the December 31, 2019, the Group has recorded ₩8,789 million and ₩1,727 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 to the Group.

(d) In relation to Asia Trust Co., Ltd., ("Asia Trust") a subsidiary of the Group, a number of complaints have arisen due to misuse of the seals discarded by employees prior to the Group's acquisition of Asia Trust. Some of them filed a lawsuit against the Group (claim amount of ₩50.3 billion) during the current year, and a special inspection was conducted by the Financial Supervisory Service in February 2019. The Group did not reflect these financial effects in the consolidated financial statements as of December 31, 2019 because the Group could not reliably measure the likelihood of loss and extent of loss.

(e) Regarding the currency option contracts, the Group has received the dispute arbitration request from the Financial Dispute Arbitration Committee on December 19, 2019; the Group will proceed with Board of Directors' decision. The Group's management anticipates that the result of the adjustment will not have a significant impact on the Group's financial position.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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43. Commitments and contingencies (continued)

(f) The Group as the Prime Brokerage Service provider has performed the TRS transactions (Total Return Swap: Derivatives that exchange risk with income from underlying assets, such as stocks, bonds, funds, etc.) as per the TRS Agreement with a fund managed by Lime Asset Management (“Lime Fund”).

Through the TRS Agreement with the Group, Lime Fund indirectly invested about \$200 million of IIG Global Trade Finance Fund, IIG Trade Finance Fund and IIG Trade Finance Fund-FX Hedged (collectively, “IIG Funds”) from May 2017 to September 2017.

In accordance with the Lime Fund's directions in 2019, the Group invested IIG Fund in kind in LAM Enhanced Finance III L.P. (“LAM III Fund”) and acquired the LAM III Fund's beneficiary certificates. The recoverable amount on the LAM III Fund beneficiary certificates is affected by the recoverable amounts of the IIG funds contributed in kind. The IIG Funds received cancellation of registration and asset freeze order from the U.S Securities and Exchange Commission in November 2019.

The Financial Supervisory Service (“FSS”) announced in February 2020 that the Group was suspected of being involved in misconduct and fraudulent activities while the Group made the TRS transactions with the Lime Asset Management. The related prosecutors’ investigations on Lime Asset Management are also underway. As of now whether the Group as the Prime Brokerage Service provider is legally responsible depends on the FSS’s additional inspections, prosecutors’ inspections and the future litigation; and the legal obligation of the Group relating to the suspected involvement in the fraudulent activities is not determined.

In addition, some of the private equity funds sold by the Group and managed by Lime Asset management are being inspected for whether any mis-selling has been involved by the supervisory authority. Depending on the results of the inspection, proceedings for dispute settlement and loss compensation on the miss-selling, if any, may take place. Whether a mis-selling has happened or the amount of compensation cannot be estimated reliably, the Group did not recognized a provision.

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44. Statement of cash flows

(a) Cash and cash equivalents in the consolidated statements of cash flows as of December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|--|--------------------|------------------|
| Cash and due from banks at amortized cost | ₩ 28,435,818 | 17,363,450 |
| Adjustments: | (3,349,719) | (3,008,188) |
| Due from financial institutions with a maturity over three months from date of acquisition | (16,506,925) | (6,175,506) |
| Restricted due from banks | (19,856,644) | (9,183,694) |
| | <u>₩ 8,579,174</u> | <u>8,179,756</u> |

(b) Significant non-cash activities for the years ended December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|---|-------------|-------------|
| Debt-equity swap | ₩ 224,093 | 28,759 |
| Transfers from construction-in-progress to property and equipment | 76,004 | 6,319 |
| Transfers between property and equipment and investment property | 104,573 | 28,199 |
| Transfers between assets held for sale to property and equipment | 455 | 80 |
| Transfers between investment property and assets held for sale | 15,795 | - |
| Accounts payable for purchase of intangible assets, etc. | 472,798 | 1,047 |
| Transaction for right-of-use assets | 1,376,764 | - |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

44. Statement of cash flows (continued)

(c) Changes in assets and liabilities arising from financing activities for the years ended December 31, 2019 and 2018 are as follows:

| | 2019 | | | | | | |
|---|-------------------|------------------------|---------------|-------------------|----------------------|------------------|--------------------|
| | Assets | | Liabilities | | | Total | |
| | Derivative assets | Derivative liabilities | Borrowings | Debentures | Lease liabilities(*) | | |
| Balance at January 1, 2019 | ₩ | 7,477 | 84,579 | 29,818,542 | 63,227,699 | 536,842 | 93,675,139 |
| Changes from cash flows | | - | (21,958) | 5,017,269 | 11,201,673 | (269,362) | 15,927,622 |
| Changes from non-cash flows | | | | | | | |
| Amortization of discount on borrowings and debentures | | - | - | 58,320 | 352,524 | 11,291 | 422,135 |
| Changes in foreign currency exchange rate | | - | - | 173,623 | 282,534 | - | 456,157 |
| Others | | 47,020 | (13,946) | (204,598) | 298,934 | 792,901 | 920,311 |
| Business combination(Note47) | | - | - | - | - | 32,587 | 32,587 |
| Balance at December 31, 2019 | ₩ | <u>54,497</u> | <u>48,675</u> | <u>34,863,156</u> | <u>75,363,364</u> | <u>1,104,259</u> | <u>111,434,951</u> |

(*) At the beginning balance of 2019, the lease liabilities are included due to the adoption of K-IFRS No. 1116.

| | 2018 | | | | | |
|---|-------------------|------------------------|---------------|-------------------|-------------------|-------------------|
| | Assets | | 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 | ₩ | <u>7,477</u> | <u>84,579</u> | <u>29,818,542</u> | <u>63,227,699</u> | <u>93,138,297</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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45. 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, 2019 and 2018 are as follows:

| <u>Related party</u> | <u>Account</u> | <u>2019</u> | <u>2018</u> |
|---|---------------------------------------|-------------|-------------|
| Investments in associates: | | | |
| BNP Paribas Cardif Life Insurance | Other assets | ₩ 92 | 9,860 |
| " | Credit card loans | 173 | 116 |
| " | Deposits | 402 | 444 |
| Partners 4th Growth Investment Fund | Deposits | 1,443 | 1,855 |
| BNP Paribas Cardif General Insurance | Credit card loans | 26 | 29 |
| " | Allowances for credit Loss ("ACL") | - | (2) |
| " | Other assets | 401 | - |
| " | Deposits | 17 | 157 |
| Shinhan Praxis K-Growth Global Private Equity Fund | Other assets | 91 | 151 |
| Dream High Fund III | Deposits | 5 | 4 |
| Midas Dong-A Snowball Venture Fund(*1) | Deposits | - | 159 |
| Credian Healthcare Private Equity Fund II | Deposits | 4 | 45 |
| Midas Dong-A Snowball Venture Fund 2 | Deposits | 233 | 354 |
| IBKS-Shinhan Creative Economy New Technology Fund II (*1) | Deposits | - | 672 |
| Eum Private Equity Fund No.3 | Deposits | 353 | 49 |
| SHBNPP Private Korea Equity Long-Short Professional Feeder (*2) | Other assets | - | 133 |
| Shinhan Global Healthcare Fund 1 | Unearned revenue | - | 360 |
| Shinhan Fintech New Technology Fund No.1(*1) | Unearned revenue | - | 123 |
| Taihan Industrial System Co., Ltd.(*3) | Deposits | - | 85 |
| Incorporated association Finance Saving Information Center | Credit card loans | - | 3 |
| | Deposits | 6 | 4 |
| GX Shinhan interest 1 st Private Equity Fund | Unearned revenue | 248 | 278 |
| Nomura investment property trust No.19 | Loans | 11,973 | 11,966 |
| " | Other assets | 42 | 45 |
| SHBNPP MAIN Professional Investment Type Private Mixed Asset Investment Trust No.3 | Other assets | 678 | 236 |
| Shinhan-Stonebridge Petro Private Equity Fund | Other assets | 810 | 484 |
| Korea Finance Security | Deposits | 362 | - |
| SHINHAN-CORE TREND GLOBAL FUND 1 | Unearned revenue | 9 | - |
| Hermes Private Investment Equity Fund | Deposits | 275 | - |
| Multimedia Tech Co.Ltd | Deposits | 3 | - |
| Korea Credit Bureau | Deposits | 80 | - |
| Goduck Gangil PFV Co., Ltd | Loans | 24,000 | - |
| " | ACL | (78) | - |
| SBC PFV Co., Ltd | Deposits | 5,142 | - |
| GMG Development Co., Ltd | Deposits | 300 | - |
| Sprott Global Renewable Private Equity Fund I | Deposits | 342 | - |
| IMM Global Private Equity Fund | Loans | 800 | - |
| " | ACL | (3) | - |
| " | Deposits | 7,598 | - |
| Key management personnel and their immediate relatives: | Loans | 4,426 | 3,313 |
| | Assets | 43,431 | 26,334 |
| | Liabilities | ₩ 16,822 | 4,589 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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45. Related parties (continued)

(a) Balances with the related parties as of December 31, 2019 and 2018 are as follows (continued) :

(*1) Excluded from related parties due to the disposal or liquidation.

(*2) As the Group held control due to increases in the equity ratio during the year, it was changed from an associates to a consolidated subsidiary.

(*3) As the Group does not have significant influence to this entity, this has been removed from the related parties for the year ended December 31, 2019.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

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(In millions of won)

45. Related parties (continued)

(b) Transactions with the related parties for the years ended December 31, 2019 and 2018 are as follows:

| Related party | Account | 2019 | 2018 |
|--|-------------------------------------|---------|-------|
| Investments in associates | | | |
| BNP Paribas Cardif Life Insurance | Fees and commission income | ₩ 4,230 | 3,716 |
| " | Reversal of credit losses | 3 | 4 |
| " | Other operating expenses | (1) | - |
| " | General and administrative expenses | (9) | (17) |
| Shinhan Praxis K-Growth Global Private Equity Fund | Fees and commission income | 448 | 685 |
| BNP Paribas Cardif General Insurance | Fees and commission income | 11 | 9 |
| " | Other operating expenses | 468 | - |
| " | Provision for credit losses | - | (2) |
| Midas Dong-A Snowball Venture Fund(*1) | Fees and commission income | 119 | 47 |
| " | Interest expense | (1) | (2) |
| SP New Technology Business investment Fund I (*2) | Fees and commission income | - | 317 |
| IBKS-Shinhan Creative Economy New Technology Fund I (*2) | Fees and commission income | 380 | 13 |
| IBKS-Shinhan Creative Economy New Technology Fund II(*1) | Fees and commission income | 8 | 16 |
| SM New Technology Business Investment Fund I | Fees and commission income | 14 | 55 |
| JAEOYOUNG SOLUTEC CO., LTD.(*2) | Interest income | - | 523 |
| " | Fees and commission income | - | 2 |
| " | Other operating income | - | 3 |
| " | Interest expenses | - | (2) |
| " | Provision for credit losses | - | (1) |
| Partners 4th Growth Investment Fund | Interest expense | (7) | (19) |
| Shinhan-Albatross Technology Investment | Fees and commission income | 216 | 216 |
| SHBNPP Private Korea Equity Long-Short Professional Feeder(*3) | Fees and commission income | 363 | 975 |
| KDBC Midas Dong-A Snowball Venture Fund II | Interest expense | - | (2) |
| STI-New Growth Engines Investment(*2) | Fees and commission income | - | 16 |
| Shinhan Fintech New Technology Fund No.1(*1) | Fees and commission income | 38 | 153 |
| Shinhan Global health Care Investment No.1 | Fees and commission income | 360 | 785 |
| Taihan Industrial System Co., Ltd.(*4) | Fees and commission income | - | 1 |
| Shinhan capital-Cape FN Fund No.1(*1) | Fees and commission income | 101 | 82 |
| SHC-K2 Global Material Fund | Fees and commission income | 19 | 20 |
| Synergy-Shinhan Mezzanine New Technology Investment Fund | Fees and commission income | ₩ 94 | 127 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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December 31, 2019 and 2018

(In millions of won)

45. Related parties (continued)

(b) Transactions with the related parties for the years ended December 31, 2019 and 2018 are as follows:

| Related party | Account | 2019 | 2018 |
|--|----------------------------|----------|--------|
| Shinhan-Midas Dong-A Secondary Venture Fund | Fees and commission income | ₩ 187 | 71 |
| GX Shinhan interest 1st Private Equity Fund | Fees and commission income | 545 | 412 |
| Shinhan-Nvestor Liquidity Solution Fund | Fees and commission income | 361 | 214 |
| SHC ULMUS Fund No.1 | Fees and commission income | 76 | 51 |
| Shinhan-PS Investment Fund No.1 | Fees and commission income | 20 | 12 |
| Nomura investment property trust No.19 | Interest income | 519 | 312 |
| " | Other operating income | 7 | - |
| " | Provision for credit loss | - | (34) |
| SHBNPP MAIN Professional Investment Type Private Mixed Asset Investment Trust No.3 | Fees and commission income | 2,694 | 236 |
| Shinhan-Stonebridge Petro Private Equity Fund | Fees and commission income | 1,762 | 1,920 |
| Korea Finance Security | Fees and commission income | 10 | - |
| ShinHan – Soo Young Entrepreneur Investment Fund No.1 | Fees and commission income | 275 | - |
| Shinhan-Rhinos 1 Fund | Fees and commission income | 64 | - |
| SHINHAN-CORE TREND GLOBAL FUND 1 | Fees and commission income | 45 | - |
| Kiwoom-Shinhan Innovation Fund I | Fees and commission income | 67 | - |
| One Shinhan Global Fund 1 | Fees and commission income | 151 | - |
| Yeollim-Shinhan Portfolio Fund I | Fees and commission income | 59 | - |
| FuturePlay-Shinhan TechInnovation Fund 1 | Fees and commission income | 7 | - |
| WON JIN HOME PLAN CO.,LTD | Interest income | 186 | - |
| Korea Credit Bureau | Fees and commission income | 13 | - |
| " | Interest expense | (5) | - |
| Goduck Gangill PFV Co., Ltd | Interest income | 328 | - |
| " | Fees and commission income | 1,120 | - |
| " | Provision for credit loss | (78) | - |
| SBC PFV Co., Ltd | Interest expense | (3) | - |
| IMM Global Private Equity Fund | Interest income | 28 | - |
| " | Interest expense | (25) | - |
| " | Provision for credit loss | (3) | - |
| Key management personnel and their immediate relatives | | | |
| Interest income | | 161 | 101 |
| | | ₩ 15,425 | 11,015 |

(*1) Excluded from the associates due to disposal and liquidation for the year ended December 31, 2019.

(*2) Excluded from the associates due to disposal and liquidation for the year ended December 31, 2018

(*3) Included in the related party due to the additional acquisition for the year ended December 31, 2019.

(*4) As the Group does not have significant influence to this entity, this has been removed from the related parties for the year ended December 31, 2019.

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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(In millions of won)

45. Related parties (continued)

(c) Key management personnel compensation

Key management personnel compensation for the years ended December 31, 2019 and 2018 are as follows:

| | | 2019 | 2018 |
|-------------------------------------|---|---------------|---------------|
| Short-term employee benefits | ₩ | 21,237 | 22,502 |
| Severance benefits | | 731 | 419 |
| Share-based payment transactions(*) | | 12,343 | 4,944 |
| | ₩ | <u>34,311</u> | <u>27,865</u> |

(*) 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, 2019 and 2018 are as follows:

| Guarantor | Guaranteed Parties | Amount of guarantees | | Account |
|--------------|-----------------------------------|----------------------|--------|--------------------|
| | | 2019 | 2018 | |
| Shinhan Bank | BNP Paribas Cardif Life Insurance | ₩ 10,000 | 10,000 | Unused credit line |

(e) Details of collaterals provided by the related parties as of December 31, 2019 and December 31, 2018 are as follows:

| Provided to | Provided by | Pledged assets | 2019 | 2018 |
|--------------|-----------------------------------|----------------------------|-----------------|---------------|
| Shinhan Bank | BNP Paribas Cardif Life Insurance | Government bonds | ₩ 12,000 | 12,000 |
| " | Hyungje art printing | Properties | 120 | - |
| " | Goduck Gangil1 PFV Co., Ltd | Guarantee insurance policy | 28,800 | - |
| | | | ₩ <u>40,920</u> | <u>12,000</u> |

(f) Details of significant loan transactions with related parties as of December 31, 2019 and 2018 are as follows:

| Classification | Company | 2019 | | | | Ending |
|---------------------------|--|-----------------|---------------|----------|-----------|---------------|
| | | Beginning | Loan | Recover | Other (*) | |
| Investments in associates | Nomura investment property trust No.19 | ₩ 11,966 | - | - | 7 | 11,973 |
| " | Goduck Gangil1 PFV Co., Ltd | - | 24,000 | - | - | 24,000 |
| " | IMM Global Private Equity Fund | - | 800 | - | - | 800 |
| | Total | ₩ <u>11,966</u> | <u>24,800</u> | <u>-</u> | <u>7</u> | <u>36,773</u> |

(*)The effect on changes in allowance for credit loss is included.

| Classification | Company | 2018 | | | | Ending |
|---------------------------|--|-----------|--------|---------|-----------|--------|
| | | Beginning | Loan | Recover | Other (*) | |
| Investments in associates | Nomura investment property trust No.19 | ₩ - | 12,000 | - | (34) | 11,966 |

(*)The effect on changes in allowance for credit loss is included.

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46. 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:

| | <u>Description</u> |
|------------------------------|---|
| 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 | <p>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.</p> |
| Investment fund | <p>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.</p> |

The size of unconsolidated structured entities as of December 31, 2019 and 2018 are as follows:

| | <u>2019</u> | <u>2018</u> |
|-----------------------------|----------------------|--------------------|
| Total assets: | | |
| Asset-backed securitization | ₩ 208,441,947 | 196,108,655 |
| Structured financing | 195,374,046 | 132,050,391 |
| Investment fund | 215,371,530 | 71,487,406 |
| | <u>₩ 619,187,523</u> | <u>399,646,452</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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46. Interests in unconsolidated structured entities (continued)

(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, 2019 and 2018 are as follows:

| | 2019 | | | |
|---|---------------------------------|-------------------------|--------------------|-------------------|
| | Assets-backed securitization | Structured financing | Investment fund | Total |
| Assets: | | | | |
| Loans measured at fair value through profit or loss | ₩ 10,646 | 69,727 | - | 80,373 |
| Loan at amortized cost | 785,134 | 10,207,866 | 664,024 | 11,657,024 |
| Securities at fair value through profit or loss | 3,705,565 | 70,407 | 9,378,374 | 13,154,346 |
| Derivate assets | 21,494 | 1,027 | - | 22,521 |
| Securities at fair value through other comprehensive income | 2,144,846 | 188,429 | - | 2,333,275 |
| Securities at amortized cost | 4,894,942 | - | - | 4,894,942 |
| Other assets | 3,244 | 14,776 | 58,948 | 76,968 |
| | <u>₩ 11,565,871</u> | <u>10,552,232</u> | <u>10,101,346</u> | <u>32,219,449</u> |
| Liabilities: | | | | |
| Other liabilities | ₩ 682 | 10,457 | - | 11,139 |

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46. Interests in unconsolidated structured entities (continued)

(b) Nature of risks (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 |
| | ₩ <u>11,286,989</u> | <u>7,859,117</u> | <u>6,196,744</u> | <u>25,342,850</u> |
| Liabilities: | | | | |
| Derivative liabilities | ₩ 111 | - | - | 111 |
| Other | 5,368 | 4,128 | - | 9,496 |
| | ₩ <u>5,479</u> | <u>4,128</u> | <u>-</u> | <u>9,607</u> |

ii) Exposure to risk relating to its interests in unconsolidated structured entities as of December 31, 2019 and 2018 are as follows:

| | 2019 | | | |
|--------------------------|---------------------------------|-------------------------|--------------------|-------------------|
| | Assets-backed securitization | Structured financing | Investment fund | Total |
| Assets held | ₩ 11,565,871 | 10,552,232 | 10,101,346 | 32,219,449 |
| ABS and ABCP commitments | 1,208,707 | 2,300 | 868,498 | 2,079,505 |
| Loan commitments | 845,904 | 855,520 | - | 1,701,424 |
| Guarantees | 139,522 | 4,000 | - | 143,522 |
| Others | - | 118,969 | - | 118,969 |
| | ₩ <u>13,760,004</u> | <u>11,533,021</u> | <u>10,969,844</u> | <u>36,262,869</u> |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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46. Interests in unconsolidated structured entities (continued)

(b) Nature of risks (continued)

ii) *Exposure to risk relating to its interests in unconsolidated structured entities as of December 31, 2019 and 2018 are as follows (continued):*

| | 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 |

SHINHAN FINANCIAL GROUP CO., LTD. AND SUBSIDIARIES

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47. Business combination

(a) Orange Life Insurance Co., Ltd

i) *General information*

On February 1, 2019, the Group obtained control over Orange Life Insurance Co., Ltd. by acquiring 59.15% of its shares after obtaining approval from the Financial Services Commission on January 16, 2019. The primary reason for the acquisition is to strengthen the life insurance business in response to changes in the financial market environment.

ii) *Identifiable net assets*

Fair values of assets acquired and liabilities assumed as of acquisition date are as follows:

| | <u>Amount(*1)</u> |
|---|--------------------|
| Assets: | |
| Cash and due from banks at amortized cost | ₩ 739,071 |
| Financial assets at fair value through profit or loss | 1,573,453 |
| Securities at fair value through other comprehensive income | 11,111,395 |
| Securities at amortized cost | 11,273,999 |
| Loans at amortized cost | 2,588,588 |
| Derivatives | 13,934 |
| Properties and equipment | 35,489 |
| Intangible assets(*2) | 38,475 |
| Other assets | 5,847,621 |
| | <u>33,222,025</u> |
| Liabilities: | |
| Liabilities under insurance contracts(*3) | 24,187,474 |
| Derivative liabilities | 3,991 |
| Other liabilities | 6,098,301 |
| | <u>30,289,766</u> |
| Fair value of the identifiable net assets | ₩ <u>2,932,259</u> |

(*1) The Group measured the identifiable assets and liabilities of the acquirer at fair value at the date of the business combination for the allocation of the consideration transferred. The fair value was measured at the price that would be received at the date of the business combination when the asset was sold, or when the liability was transferred in an orderly transaction between market participants, and in case the price was not directly observed, it was estimated using appropriate valuation techniques.

(*2) Includes membership, software, and development costs that Orange Life Insurance Co., Ltd. holds.

(*3) The Group has reflected VOBA (Value of Business Acquired), which was measured separately by applying the indirect method based on the intrinsic value, to the carrying value of the liabilities under insurance contracts that the Orange Life Insurance Co., Ltd. had.

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Notes to the Consolidated Financial Statements

December 31, 2019 and 2018

(In millions of won)

47. Business combination (continued)

(a) Orange Life Insurance Co., Ltd (continued)

iii) Goodwill

Goodwill recognized as a result of business combination is as follows:

| | <u>Amount</u> |
|---------------------------------------|------------------|
| Consideration paid in cash | ₩ 2,298,900 |
| Fair value of identifiable net assets | (2,932,259) |
| Non-controlling interests (*) | <u>1,197,935</u> |
| Goodwill | <u>₩ 564,576</u> |

(*) The non-controlling interests in Orange Life Insurance Co., Ltd was measured as a proportionate shares of the non-controlling interests in the identifiable net assets at acquisition date.

iv) Cost related to business combination

In connection with the business combination, the Group incurred expenses of ₩8,415 million, including legal fees and due diligence fees, which were recognized as fees and commission expense in the consolidated statement of comprehensive income.

v) Net cash outflows due to business combination

Net cash outflows due to business combination for the year ended December 31, 2019 are as follows:

| | <u>Amount</u> |
|------------------------------------|--------------------|
| Consideration transferred in cash | ₩ 2,298,900 |
| Acquired cash and cash equivalents | <u>(154,754)</u> |
| | <u>₩ 2,144,146</u> |

Operating income and net profit for the year ended December 31, 2019 from Orange Life Insurance Co., Ltd, are ₩387,440 million and ₩271,455 million, respectively, which are reflected in the consolidated statement of comprehensive income after the acquisition date.

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47. **Business combination (continued)**

(b) Asia Trust Co., Ltd

i) General information

On May 2, 2019, the Group obtained control over Asia Trust Co., Ltd. by acquiring 60% of its shares after obtaining approval from the Financial Services Commission on April 17, 2019. The primary reason for the acquisition is to strengthen the non-banking portfolio through real estate business line.

ii) Identifiable net assets

Fair values of assets acquired and liabilities assumed as of acquisition date are as follows:

| | <u>Amount</u> |
|---|------------------|
| Assets: | |
| Cash and due from banks at amortized cost | ₩ 27,647 |
| Financial assets at fair value through profit or loss | 53,477 |
| Loans at amortized cost(*1)(*3) | 26,197 |
| Properties and equipment | 662 |
| Intangible assets(*2) | 40,649 |
| Investment property | 13,567 |
| Other assets | 13,367 |
| | <u>175,566</u> |
| Liabilities: | |
| Other liabilities(*3) | 44,571 |
| Fair value of the identifiable net assets | ₩ <u>130,995</u> |

(*1) Acquired loans were measured at fair value. The total amount of loans under contract is ₩44,356 million, and the cash flows that are not expected to be collected as of the acquisition date is ₩18,159 million.

(*2) Includes the value of contract balance of ₩36,584 million. The Group has considered the contracts that Asia Trust Co., Ltd held to be significant enough to generate future additional revenue, and evaluated them by incremental cash flow method.

(*3) In regard to the land trust project at Ramada Hotel in Gampo, Gyeongju, some owners of parcels filed a lawsuit to return the down payments, and the intermediate payments. The loan financial institution of the business has filed a suit against Asia Trust Co., Ltd for the balance of the loans delinquent based on the intermediate payment loan agreement and subsequent agreement with the Group. The Group recorded the expected loss as allowance and provision for the trust business loans. In addition, the creditor of the constructor filed a suit claiming the construction fee; however, the Group did not reflect the effect in the consolidated financial statements as of December 31, 2019 since the potential and extent of the losses regarding the lawsuit is not reliably estimated.

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Notes to the Consolidated Financial Statements

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(In millions of won)

47. Business combination (continued)

(b) Asia Trust Co., Ltd (continued)

iii) Goodwill

Goodwill recognized as a result of the business combination is as follows:

| | <u>Amount</u> |
|---------------------------------------|------------------|
| Consideration paid in cash | ₩ 193,400 |
| Fair value of identifiable net assets | (130,995) |
| Non-controlling interests (*) | <u>52,398</u> |
| Goodwill | <u>₩ 114,803</u> |

(*) The non-controlling interests in Asia Trust Co., Ltd was measured as a proportionate shares of the non-controlling interests in the identifiable net assets at acquisition date.

iv) Cost related to business combination

In connection with the business combination, the Group incurred expenses of ₩2,124 million, including legal fees and due diligence fees, which were recognized as fees and commission expense in the consolidated statement of comprehensive income.

v) Net cash outflows due to business combination

Net cash outflows due to business combination for the year ended December 31, 2019 are as follows:

| | <u>Amount</u> |
|------------------------------------|------------------|
| Consideration transferred | ₩ 193,400 |
| Acquired cash and cash equivalents | <u>(18,647)</u> |
| | <u>₩ 174,753</u> |

Operating income and profit for the year ended December 31, 2019 from Asia Trust Co., Ltd. are ₩29,394 million and ₩18,098 million, respectively, which are reflected in the consolidated statement of comprehensive income after the acquisition date.

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(In millions of won)

47. Business combination (continued)

(c) Shinhan Vietnam Finance Company Limited

i) General information

On January 22, 2019, the Group has acquired control over Prudential Vietnam Finance Co., Ltd in Vietnam by acquiring 100% of its shares, and changed the name to Shinhan Vietnam Finance Co., Ltd. The primary reason for the acquisition is to expand its new market through credit loan business in Vietnam.

ii) Identifiable net assets

Fair values of assets acquired and liabilities assumed as follows:

| | <u>Amount</u> |
|---|-----------------|
| Assets: | |
| Cash and due from banks at amortized cost | ₩ 12,271 |
| Loans at amortized cost | 259,082 |
| Properties and equipment | 4,163 |
| Intangible assets | 5,629 |
| Other assets | 12,258 |
| | <u>293,403</u> |
| Liabilities: | |
| Deposits | 211,325 |
| Other liabilities | 19,036 |
| | <u>230,361</u> |
| Fair value of the identifiable net assets | ₩ <u>63,042</u> |

iii) Goodwill

Goodwill recognized as a result of the business combination is as follows:

| | <u>Amount</u> |
|---------------------------------------|------------------|
| Consideration paid in cash | ₩ 170,194 |
| Fair value of identifiable net assets | <u>(63,042)</u> |
| Goodwill | ₩ <u>107,152</u> |

The Group assessed the goodwill based on the financial information as of January 1, 2019 (“assessment date”) as reliable financial information as of the acquisition date, January 22, 2019, were not available.

Between the assessment date and the acquisition date, no significant transactions that affected the fair value of the identifiable net assets were identified.

iv) Cost related to business combination

In connection with the business combination, the Group incurred expenses of ₩92 million, including legal fees and due diligence fees, which were recognized as fees and commission expense in the consolidated statement of comprehensive income.

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47. Business combination (continued)

(c) Shinhan Vietnam Finance Company Limited (continued)

v) *Net cash outflows due to business combination*

Net cash outflows due to business combination for the year ended December 31, 2019 are as follows:

| | | Amount |
|------------------------------------|---|----------------|
| Consideration transferred | ₩ | 170,194 |
| Acquired cash and cash equivalents | | (12,271) |
| | ₩ | <u>157,923</u> |

Operating income and profit for the year ended December 31, 2019 from Shinhan Vietnam Finance Company Limited are ₩22,912 million and ₩18,363 million, respectively, which are reflected in the consolidated statement of comprehensive income after the acquisition date.

(d) If the business combination had been consolidated from the beginning of 2019, the operating income and net income that would have been included in the consolidated statement of comprehensive income do not differ materially from the current operating income and net income recognised from the acquisition date of the business combination.

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(In millions of won)

48. Transition effects arising from changes in accounting policies

Upon adoption of K-IFRS No.1116 ‘Leases’, the Group recognized lease liabilities in relation to leases that had previously been classified as operating leases in accordance with K-IFRS No.1017. These liabilities were measured at the present value of the future lease payments at the lessee's incremental borrowing rate on January 1, 2019. The lessee's incremental borrowing rates applied to the lease liabilities are between 2.06% and 8.96% on January 1, 2019. The difference between the amount of operating lease agreements disclosed as of December 31, 2018 discounted at the Group's incremental borrowing rate and the lease liabilities recognized at the date of initial application is as follows:

| | <u>Amount</u> |
|--|----------------------|
| Operating lease agreement commitment disclosed as of December 31, 2018 | ₩ 610,080 |
| Amount discounted using the Group's incremental borrowing rate | 591,725 |
| Less: | |
| Low-value leases recognized as current expenses through the straight-line method | (3,454) |
| Value-added Tax | <u>(51,429)</u> |
| Lease liabilities recognized at the beginning of 2019 | ₩ <u>536,842</u> |

Right-of-use assets were measured by adjusting the amount of prepaid or unpaid lease payments in relation to leases recognized in the consolidated statement of financial position at the same amount as the lease liability. As a result, property, plant and equipment increased by ₩573,823 million at the beginning of 2019, and prepaid expense, unearned revenue and accrued expenses decreased by ₩42,196 million, ₩5,197 million and ₩17 million, respectively.

49. Subsequent events occurred after reporting period

The Group, pursuant to its Board of Directors' resolution on November 14, 2019, reached a decision on exchanging of the common shares of Shinhan Financial Group Co., Ltd.(the “Company”) and Orange Life Insurance Co. Ltd. (“Orange Life”) by means of a small-scale stock exchange, with the purpose to enable the Group to hold 100% of the stock of Orange Life. The stock exchange was consummated on January 28, 2020, at an exchange ratio of 0.6601483 shares of the Company for each share of Orange Life. As a result, the shares issued by Orange Life and owned by shareholders of Orange Life other than the Company were transferred to the Company on January 28, 2020 and such shareholders became shareholders of the Group by acquiring 8,232,906 newly issued shares in exchange for 13,882,062 treasury shares of the Group. Upon the share exchange, Orange Life became a wholly owned subsidiary of the Group.

