

Daekyo Co., Ltd. and Subsidiaries
Consolidated Financial Statements
December 31, 2018 and 2017

Daekyo Co., Ltd. and Subsidiaries
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December 31, 2018 and 2017

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Independent Auditor's Report

(English Translation of a Report Originally Issued in Korean)

To the Board of Directors and Shareholders of
Daekyo Co., Ltd.

Opinion

We have audited the accompanying consolidated financial statements of Daekyo Co., Ltd. and its subsidiaries (collectively referred to as the "Group"), which comprise the consolidated statements of financial position as at December 31, 2018 and 2017, and the consolidated statements of profit or loss, consolidated statements of comprehensive income, consolidated statements of changes in equity and consolidated statements of cash flows for the years then ended, and notes to the consolidated financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying consolidated financial statements present fairly, in all material respects, the consolidated financial position of the Group as at December 31, 2018 and 2017, and its consolidated financial performance and its consolidated cash flows for the years then ended in accordance with International Financial Reporting Standards as adopted by the Republic of Korea (Korean IFRS).

Basis for Opinion

We conducted our audits in accordance with Korean Standards on Auditing. Our responsibilities under those standards are further described in the Auditor's 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 of the Republic of Korea that are relevant to our audit of the consolidated financial statements and we have fulfilled our other ethical responsibilities in accordance with the ethical requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Other Matter

Auditing standards and their application in practice vary among countries. The procedures and practices used 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 Korean 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.

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

Auditor's 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 auditor's 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 Korean Standards on Auditing 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 Korean Standards on Auditing, 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 entity's internal control.
- Evaluate the appropriateness of accounting policies used 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 auditor's 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 auditor's 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 to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

The engagement partner on the audit resulting in this independent auditor's report is Seungchul Park, Certified Public Accountant.

Seoul, Korea
March 14, 2019

This report is effective as of March 14, 2019, 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 there is a possibility that the above audit report may have to be revised to reflect the impact of such subsequent events or circumstances, if any.

Daekyo Co., Ltd. and Subsidiaries
Consolidated Statements of Financial Position
December 31, 2018 and 2017

(in Korean won)

	Notes	2018	2017
Assets			
Current assets			
Cash and cash equivalents	4,5,7,8	58,507,873,463	60,251,798,959
Financial deposits	4,5,7,8,29	23,128,149,103	20,688,270,244
Trade receivables	4,5,7,9,41	15,998,207,201	21,354,580,944
Other receivables	4,5,7,9,41	34,769,959,057	43,395,784,718
Contract assets	10	2,570,078,302	-
Financial assets at fair value through profit or loss	5,7,9	131,226,354,939	-
Financial assets at fair value through gain or loss	5,7,9	-	51,799,310,135
Available-for-sale financial assets	5,7,9	-	103,810,029,072
Derivative financial instruments	5,9	-	665,544,419
Inventories	11	14,805,379,860	16,077,010,855
Other current assets	12	4,200,042,063	4,178,718,312
		<u>285,206,043,988</u>	<u>322,221,047,658</u>
Non-current assets			
Other receivables	5,7,9,41	14,666,265,682	9,047,789,414
Contact assets	10	3,152,913,647	-
Financial assets at fair value through profit or loss	5,7,9	28,734,503,435	-
Financial assets at fair value through other comprehensive income	5,7,9	82,204,430,525	-
Available-for-sale financial assets	5,7,9	-	161,564,480,707
Investments in associates	13	34,123,900,787	17,070,564,749
Property, plant and equipment	14	190,952,897,625	190,747,027,330
Investment properties	15	123,593,476,346	120,301,293,091
Intangible assets	16	66,032,749,796	35,921,936,259
Deferred tax assets	22	1,608,992,365	-
Other non-current assets	12	52,208,006	223,339,984
		<u>545,122,338,214</u>	<u>534,876,431,534</u>
Total assets		<u>830,328,382,202</u>	<u>857,097,479,192</u>

Daekyo Co., Ltd. and Subsidiaries
Consolidated Statements of Financial Position
December 31, 2018 and 2017

<i>(in Korean won)</i>	Notes	2018	2017
Liabilities			
Current liabilities			
Trade payables	4,5,7,41	6,568,628,076	8,893,795,885
Other payables	4,5,7,41	66,839,545,794	69,781,081,449
Derivative financial instruments	5,7,9	195,488,182	193,705,899
Contract liabilities	10	1,545,712,343	-
Borrowings	4,5,7,18,41	21,572,029,240	19,929,837,195
Income tax payable		3,672,423,518	6,273,929,274
Provisions	19	-	482,371,342
Other current liabilities	20	51,782,345,665	46,163,726,751
		<u>152,176,172,818</u>	<u>151,718,447,795</u>
Non-current liabilities			
Other payables	4,5,7,29	39,604,045,881	10,952,134,552
Contract liabilities	10	208,954,675	-
Borrowings	4,5,7,18,41	8,341,742,361	8,200,717,029
Net defined benefit liability	21	13,171,552,647	8,796,328,695
Deferred tax liabilities	22	-	497,386,934
		<u>61,326,295,564</u>	<u>28,446,567,210</u>
Total liabilities		<u>213,502,468,382</u>	<u>180,165,015,005</u>
Equity			
Share capital	23	52,064,920,000	52,064,920,000
Reserves	24	73,072,275,962	72,720,242,871
Other components of equity	25,26,27	(121,996,794,805)	(79,861,427,413)
Accumulated other comprehensive income	22	33,853,963,242	53,452,808,387
Retained earnings	28	575,666,588,298	572,213,321,630
Equity attributable to owners of the Parent Company		<u>612,660,952,697</u>	<u>670,589,865,475</u>
Non-controlling interest			
Non-controlling interest		4,164,961,123	6,342,598,712
Total equity		<u>616,825,913,820</u>	<u>676,932,464,187</u>
Total liabilities and equity		<u>830,328,382,202</u>	<u>857,097,479,192</u>

The above consolidated statements of financial position should be read in conjunction with the accompanying notes.

Daekyo Co., Ltd. and Subsidiaries
Consolidated Statements of Profit or Loss
Years Ended December 31, 2018 and 2017

<i>(in Korean won)</i>	Notes	2018	2017
Sales	6,30,41	763,142,133,236	812,203,103,598
Cost of sales	32,41	<u>626,714,040,973</u>	<u>651,339,590,134</u>
Gross profit		136,428,092,263	160,863,513,464
Selling and administrative expenses	31,32,41	109,343,412,083	115,378,593,639
Bad debt expense	4	<u>1,478,122,665</u>	<u>-</u>
Operating income		25,606,557,515	45,484,919,825
Other income	33,41	19,907,605,903	29,710,519,144
Other expenses	34,41	24,311,057,747	21,810,050,780
Other bad debt expense	4	60,985,817	-
Share of profit of associates	13	4,307,537,123	594,520,526
Interest income		3,782,784,353	-
Other finance income	35	286,459,178	2,018,002,725
Finance costs	36	1,401,591,055	1,535,084,658
Profit before income tax		28,117,309,453	54,462,826,782
Income tax expense	37	<u>8,892,792,261</u>	<u>12,843,983,573</u>
Profit for the year		<u>19,224,517,192</u>	<u>41,618,843,209</u>
Profit (loss) for the year attributable to:			
Owners of the Parent Company		18,849,339,314	41,740,965,066
Non-controlling interests		375,177,878	(122,121,857)
Basic earnings per share	38		
attributable to the equity holders of the Parent Company:			
Basic earnings per share for ordinary shares		205	466
Basic earnings per share for preferred shares	38	250	465
Diluted earnings per share			
attributable to the equity holders of the Parent Company:			
Diluted earnings per share for ordinary shares		205	466
Diluted earnings per share for preferred shares		247	455

The above consolidated statements of profit or loss should be read in conjunction with the accompanying notes.

Daekyo Co., Ltd. and Subsidiaries
Consolidated Statements of Comprehensive Income
Years Ended December 31, 2018 and 2017

<i>(in Korean won)</i>	Notes	2018	2017
Profit for the year		<u>19,224,517,192</u>	<u>41,618,843,209</u>
Other comprehensive income			
<i>Items that will not be reclassified to profit or loss</i>			
Gain (loss) on valuation of equity instruments at fair value through other comprehensive income		(12,176,575,243)	-
Share of other comprehensive income of associates		36,592,550	-
Remeasurements of the net defined benefit liability	21,22,28	(2,121,419,040)	563,999,661
<i>Items that may be subsequently reclassified to profit or loss</i>			
Gain (loss) on valuation of debt instruments at fair value through other comprehensive income		161,651,080	-
Changes in the fair value of available-for-sale financial assets		-	1,526,946,281
Other comprehensive income relating to the non-current asset held for sale		-	(1,671,720,870)
Currency translation differences		72,745,485	(702,180,502)
Share of other comprehensive income of associates		89,362,738	70,447,759
Other comprehensive income for the year, net of tax		<u>(13,937,642,430)</u>	<u>(212,507,671)</u>
Total comprehensive income for the year		<u>5,286,874,762</u>	<u>41,406,335,538</u>
Total comprehensive income (loss) for the year is attributable to:			
Owners of the Parent Company		4,807,599,603	42,213,397,745
Non-controlling interest		479,275,159	(807,062,207)

The above consolidated statements of comprehensive income should be read in conjunction with the accompanying notes.

Daekyo Co., Ltd. and Subsidiaries
Consolidated Statements of Changes in Equity
Years Ended December 31, 2018 and 2017

(in Korean won)

Attributable to owners of the Parent Company									
Notes	Share capital	Reserves	Other components of equity	Accumulated other comprehensive income	Accumulated other comprehensive relating to the non-current asset held for sale	Retained earnings	Non-controlling interest	Total equity	
Balance at January 1, 2017	52,064,920,000	72,514,886,266	(74,918,987,086)	52,289,828,801	1,257,107,559	551,632,229,562	7,956,718,379	662,796,703,481	
Comprehensive income (loss)									
Profit (loss) for the year	-	-	-	-	-	41,740,965,066	(122,121,857)	41,618,843,209	
Changes in the fair value of available-for-sale financial assets	-	-	-	1,452,916,982	-	-	74,029,299	1,526,946,281	
Currency translation differences	-	-	-	(360,385,155)	-	-	(341,795,347)	(702,180,502)	
Remeasurement of net defined benefit liability	-	-	-	-	-	566,560,652	(2,560,991)	563,999,661	
Share of other comprehensive income of associates	-	-	-	70,447,759	-	-	-	70,447,759	
Reclassification relating to the non-current asset held for sale and others	-	-	-	-	(1,257,107,559)	-	(414,613,311)	(1,671,720,870)	
Transactions with owners									
Dividends	28,39	-	-	-	-	(12,768,742,350)	-	(12,768,742,350)	
Interim dividends	28,39	-	-	-	-	(8,957,691,300)	-	(8,957,691,300)	
Dividends of subsidiaries	-	-	-	-	-	-	(891,420,847)	(891,420,847)	
Issuance of shares of subsidiaries	-	(154,307,373)	-	-	-	-	84,363,387	(69,943,986)	
Acquisition of treasury share	27	-	(6,809,672,900)	-	-	-	-	(6,809,672,900)	
Disposal of treasury share	27	-	1,178,998,944	-	-	-	-	1,538,662,922	
Stock options	26	-	688,233,629	-	-	-	-	688,233,629	
Balance at December 31, 2017	<u>52,064,920,000</u>	<u>72,720,242,871</u>	<u>(79,861,427,413)</u>	<u>53,452,808,387</u>	<u>-</u>	<u>572,213,321,630</u>	<u>6,342,598,712</u>	<u>676,932,464,187</u>	
Balance at January 1, 2018	52,064,920,000	72,720,242,871	(79,861,427,413)	53,452,808,387	-	572,213,321,630	6,342,598,712	676,932,464,187	
Changes in accounting policy	-	-	-	(6,692,790,718)	-	7,281,704,622	-	588,913,904	
Restated total equity at the beginning of the financial year	42	<u>52,064,920,000</u>	<u>72,720,242,871</u>	<u>(79,861,427,413)</u>	<u>46,760,017,669</u>	<u>579,495,026,252</u>	<u>6,342,598,712</u>	<u>677,521,378,091</u>	
Comprehensive income (loss)									
Profit for the year	-	-	-	-	-	18,849,339,314	375,177,878	19,224,517,192	
Gain (loss) on valuation of equity instruments at fair value through other comprehensive income	-	-	-	(12,176,575,243)	-	-	-	(12,176,575,243)	
Gain (loss) on valuation of debt instruments at fair value through other comprehensive income	-	-	-	161,651,080	-	-	-	161,651,080	
Gain(loss) on disposal of equity instruments at fair value through other comprehensive income	-	-	-	(978,121,107)	-	978,121,107	-	-	
Currency translation differences	-	-	-	(38,964,445)	-	-	111,709,930	72,745,485	
Remeasurement of net defined benefit liability	-	-	-	-	-	(2,113,806,391)	(7,612,649)	(2,121,419,040)	
Share of other comprehensive income of associates	-	-	-	125,955,288	-	-	-	125,955,288	
Share of retained earnings of associates	-	-	-	-	-	(12,417,594)	-	(12,417,594)	
Transactions with owners									
Dividends	28,39	-	-	-	-	(12,664,568,790)	-	(12,664,568,790)	
Interim dividends	28,39	-	-	-	-	(8,865,105,600)	-	(8,865,105,600)	
Dividends of subsidiaries	-	-	-	-	-	-	(719,148,200)	(719,148,200)	
Capital reduction of subsidiaries	-	25,014,588	-	-	-	-	(4,795,856,848)	(4,770,842,260)	
Issuance of shares of subsidiaries	-	-	-	-	-	-	1,268,271,381	1,268,271,381	
Acquisition of subsidiary	-	-	(26,442,538,944)	-	-	-	1,589,820,919	(24,852,718,025)	
Acquisition of treasury share	27	-	(15,923,491,215)	-	-	-	-	(15,923,491,215)	
Disposal of treasury share	27	-	327,018,503	1,002,178,984	-	-	-	1,329,197,487	
Stock options	26	-	(771,516,217)	-	-	-	-	(771,516,217)	
Balance at December 31, 2018		<u>52,064,920,000</u>	<u>73,072,275,962</u>	<u>(121,996,794,805)</u>	<u>33,853,963,242</u>	<u>575,666,588,298</u>	<u>4,164,961,123</u>	<u>616,825,913,820</u>	

Daekyo Co., Ltd. and Subsidiaries
Consolidated Statements of Cash Flows
Years Ended December 31, 2018 and 2017

<i>(in Korean won)</i>	Note	2018	2017
Cash flows from operating activities			
Cash generated from operations	40	68,132,790,014	104,027,306,650
Dividends received		5,264,889,629	3,875,688,570
Interest received		2,578,193,287	1,783,207,938
Interest paid		(1,050,233,119)	(1,033,623,877)
Income tax paid		(10,744,733,819)	(15,706,436,415)
Net cash inflow from operating activities		64,180,905,992	92,946,142,866
Cash flows from investing activities			
Decrease in financial deposits		16,111,772,238	11,801,957,835
Proceeds from disposal of financial assets at fair value through profit or loss		134,897,398,968	-
Proceeds from disposal of financial assets at fair value through other comprehensive income		2,062,782,816	-
Proceeds from disposal of available-for-sale financial assets		-	178,575,135,529
Proceeds from disposal of non-current assets held for sale		-	2,744,184,250
Decrease in other receivables		15,520,291,826	7,413,746,926
Proceeds from disposal of investments in associates		5,121,850,000	1,212,000,000
Proceeds from disposal of property, plant and equipment		182,678,149	2,329,391,940
Proceeds from disposal of intangible assets		89,723,340	-
Grants from governments		-	179,224,707
Increase in financial deposits		(18,360,628,564)	(20,083,477,693)
Acquisition of available-for-sale financial assets		-	(205,492,695,196)
Acquisition of financial assets at fair value through profit or loss		(97,777,693,335)	-
Increase in other receivables		(14,031,228,209)	(7,746,670,118)
Investments in associates		(10,159,865,271)	(11,000,000,000)
Acquisition of property, plant and equipment		(22,238,245,780)	(47,075,856,046)
Acquisition of intangible assets		(19,451,618,311)	(14,353,760,685)
Acquisition of business		-	(815,181,294)
Acquisition of subsidiary, net of cash acquired		(16,930,090,038)	-
Net cash outflow from investing activities		(24,962,872,171)	(102,311,999,845)
Cash flows from financing activities			
Disposal of treasury shares		226,300,000	557,182,496
Issuance of shares of subsidiaries		1,268,271,381	84,363,387
Proceeds from borrowings		6,475,535,158	6,302,428,000
Acquisition of treasury shares		(15,923,491,215)	(6,809,672,900)
Dividends of subsidiaries		(5,515,005,048)	(891,420,847)
Dividends paid		(21,529,674,390)	(21,726,433,650)
Repayments of borrowings		(6,398,933,342)	(3,791,767,834)
Net cash outflow from financing activities		(41,396,997,456)	(26,275,321,348)
Net decrease in cash and cash equivalents		(2,178,963,635)	(35,641,178,327)
Cash and cash equivalents at the beginning of the year		60,251,798,959	96,847,068,258
Exchange gains(losses) on cash and cash equivalents		435,038,139	(954,090,972)
Cash and cash equivalents at the end of the year		58,507,873,463	60,251,798,959

The above consolidated statements of cash flows should be read in conjunction with the accompanying notes.

Daekyo Co., Ltd. and Subsidiaries

Notes to the Consolidated Financial Statements

December 31, 2018 and 2017

1. General Information

Daekyo Co., Ltd. (the Company) and its subsidiaries (collectively referred to as the Group) are engaged in educational and cultural work. The Company was incorporated in December 1986, to engage in the publication, manufacturing and sales of home-school materials. The Company, as an education and culture company, provides various products and educational services such as the Noonnoppi education, pre-school education, publishing, educational institutions, home-based teaching, on-line education, and after-school teaching.

In February 2004, the Company listed its shares on the KRX KOSPI Market of the Korean Exchange. As at December 31, 2018, the majority shareholder, Daekyo Holdings Co., Ltd. owns 54.5% of the Company.

1.1 Consolidated Subsidiaries

Subsidiaries	Location	Percentage of ownership (%)						Closing Month	Major Business
		December 31, 2018			December 31, 2017				
		Controlling interest (%)	Interest owned by subsidiary (%)	Non-controlling interest (%)	Controlling interest (%)	Interest owned by subsidiary (%)	Non-controlling interest (%)		
Daekyo Edupia Co., Ltd.	Korea	98.64	-	1.36	98.64	-	1.36	December	Education
Daekyo Edu camp Co., Ltd.	Korea	99.86	-	0.14	99.86	-	0.14	December	Education
DK BUSAN Co., Ltd.	Korea	-	100.00	-	-	100.00	-	December	Education
DK ULSAN Co., Ltd.	Korea	-	100.00	-	-	100.00	-	December	Education
Daekyo CSA Co., Ltd.	Korea	70.00	-	30.00	70.00	-	30.00	December	Education
Daekyo America, Inc.	USA	50.06	-	49.94	50.06	-	49.94	December	Education
Daekyo Hong Kong Co., Ltd. ¹	China	47.89	-	52.11	47.89	-	52.11	December	Education
Daekyo Malaysia Sdn. Bhd.	Malaysia	100.00	-	-	100.00	-	-	December	Education
EYE LEVEL SDN.BHD ²		-	51.00	49.00	-	-	-		
Beijing Daekyo Co., Ltd. ³	China	-	-	-	100.00	-	-	December	Education
Shanghai Daekyo Co., Ltd.	China	100.00	-	-	100.00	-	-	December	Education
P.T Daekyo Indonesia	Indonesia	69.83	-	30.17	69.83	-	30.17	December	Education
Daekyo Enopi Singapore PTE Ltd.	Singapore	70.00	-	30.00	70.00	-	30.00	December	Education
Daekyo Vietnam Co., Ltd.	Vietnam	100.00	-	-	100.00	-	-	December	Education
EYE LEVEL HUB LLC.	USA	50.06	-	49.94	50.06	-	49.94	December	Lease
Daekyo India Private Limited	India	100.00	-	-	100.00	-	-	March	Education
Daekyo UK CO.,Ltd.	UK	100.00	-	-	100.00	-	-	December	Education
Changchun Daekyo Consulting Co., Ltd.	China	100.00	-	-	100.00	-	-	December	Education Development and supply of software
KnowRe Americas, Inc. ⁴	USA	78.14	-	21.86	-	-	-	December	Development and supply of software
KnowRe Korea, Inc. ⁴	Korea	-	100.00	-	-	-	-	December	Development and supply of software

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Subsidiaries	Location	Percentage of ownership (%)						Closing Month	Major Business
		December 31, 2018			December 31, 2017				
		Controlling interest (%)	Interest owned by subsidiary	Non-controlling interest (%)	Controlling interest (%)	Interest owned by subsidiary	Non-controlling interest (%)		
			(%)			(%)			
Heungkuk Altoran Securities Private Investment Trust ³	Korea	-	-	-	77.69	-	22.31	December	Investment
Hyundai Advantage Private Equity 5 ³	Korea	-	-	-	100.00	-	-	December	Investment
Truston Private Securities Investment Trust 4	Korea	100.00	-	-	100.00	-	-	December	Investment

¹Although the Company has less than 50% of the voting power in the investee, it is included in subsidiary as the Company has a right to appoint the majority of its Board of Directors.

²EYE LEVEL SDN.BHD was newly acquired by subsidiary of the Group during 2018.

³The subsidiaries were liquidated during 2018.

⁴Included in the subsidiaries as the Group additionally acquired shares during 2018. KnowRe Korea Inc. has control of Youli(Shanghai) Information Technology Co., Limited and Niuli(HongKong) Education Technology Co., Limited.

1.2 Summary of Financial Information of Consolidated Subsidiaries

Summary of financial position and comprehensive income of consolidated subsidiaries as at and for the years ended December 31, 2018 and 2017, is as follows:

(in millions of Korean won)	December 31, 2018			December 31, 2017		
	Assets	Liabilities	Equity	Assets	Liabilities	Equity
Daekyo Edupia Co., Ltd.	4,200	10,184	(5,984)	5,219	10,042	(4,823)
Daekyo Educamp Co., Ltd. and its subsidiaries	17,431	2,896	14,535	15,689	2,334	13,355
Daekyo CSA Co., Ltd.	13	-	13	14	-	14
Daekyo America, Inc.	4,815	5,058	(243)	4,553	3,964	589
Daekyo Hong Kong Co., Ltd.	8,253	1,010	7,243	7,437	1,241	6,196
Daekyo Malaysia Sdn. Bhd.	1,231	344	887	1,749	1,036	713
Beijing Daekyo Co., Ltd. ¹	-	-	-	250	370	(120)
Shanghai Daekyo Co., Ltd.	2,067	1,253	814	1,007	953	54
P.T Daekyo Indonesia	1,123	2,993	(1,870)	1,599	2,761	(1,162)
Daekyo Enopi Singapore PTE Ltd.	1,155	1,952	(797)	680	2,157	(1,477)
Daekyo Vietnam Co., Ltd.	394	319	75	347	259	88
EYE LEVEL HUB LLC	24,257	25,665	(1,408)	23,747	25,174	(1,427)
Daekyo India Private Limited	1,647	128	1,519	627	96	531
Daekyo UK CO.,Ltd.	216	114	102	561	100	461
Changchun Daekyo Consulting Co., Ltd.	121	648	(527)	138	304	(166)
KnowRe Americas, Inc. and its subsidiaries	1,084	1,936	(852)	-	-	-

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(in millions of Korean won)

	December 31, 2018			December 31, 2017		
	Assets	Liabilities	Equity	Assets	Liabilities	Equity
Heungkuk Altoran Securities Private Investment Trust ¹	-	-	-	19,591	7	19,584
Hyundai Advantage Private Equity 5 ¹	-	-	-	9,760	148	9,612
Truston Private Securities Investment Trust 4	4,722	76	4,646	5,976	810	5,166

¹ The subsidiaries were liquidated during 2018.

² Included in the subsidiaries as the Group additionally acquired shares during 2018.

(in millions of Korean won)

	2018			2017		
	Sales	Profit (loss)	Comprehensive income (loss)	Sales	Profit (loss)	Comprehensive income (loss)
Daekyo Edupia Co., Ltd.	9,041	(1,199)	(1,161)	10,392	(987)	(1,157)
Daekyo Book Center Co., Ltd. ³	-	-	-	1,784	(331)	(332)
Daekyo Educamp Co., Ltd. and its subsidiaries	31,311	1,293	1,180	30,638	1,372	1,198
Daekyo CSA Co., Ltd.	-	-	-	-	1	1
Daekyo New Development ⁴ Investment Association.	-	-	-	-	643	(1,430)
Daekyo America, Inc.	8,770	(843)	(831)	9,157	(466)	(573)
Daekyo Hong Kong Co., Ltd.	6,758	1,536	1,813	6,816	1,071	267
Daekyo Malaysia Sdn. Bhd.	1,976	161	174	1,954	126	113
Beijing Daekyo Co., Ltd. ¹	-	122	97	6	(13)	(6)
Shanghai Daekyo Co., Ltd.	513	(850)	(904)	605	(836)	(869)
P.T Daekyo Indonesia	666	(746)	(708)	879	(1,168)	(1,044)
Daekyo Enopi Singapore PTE Ltd.	1,341	(393)	(438)	1,279	(597)	(545)
Daekyo Vietnam Co., Ltd.	201	(556)	(551)	257	(581)	(597)
EYE LEVEL HUB LLC.	3,567	79	18	3,338	(396)	(240)
Daekyo India Private Limited	260	(619)	(694)	190	(452)	(499)
Daekyo UK CO., Ltd.	96	(365)	(359)	91	(390)	(409)
Changchun Daekyo Consulting Co., Ltd.	73	(370)	(361)	-	(273)	(267)
KnowRe Americas, Inc. and its subsidiaries ²	2,067	(782)	(834)	-	-	-
Heungkuk Altoran Securities Private Investment Trust ¹	-	1,430	1,430	-	735	1,067
Hyundai Advantage Private Equity 5 ¹	-	(36)	(36)	-	565	611
Truston Private Securities Investment Trust 4	-	(194)	(194)	-	146	357

¹ The subsidiaries were liquidated during 2018.

² KnowRe Americas, Inc. and its subsidiaries were included in subsidiaries as the Group additionally acquired shares during 2018. The information of profit or loss is financial performance before merger.

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³ Daekyo Book Center Co., Ltd. was merged into the Company during 2017.

⁴ Daekyo New Development Investment Association was liquidated during 2017.

1.3 Change in the Scope of Consolidation

Subsidiaries newly included in the consolidation for the year ended December 31, 2018:

Subsidiaries	Reason
KnowRe Americas, Inc. and its subsidiaries.	Acquisition of additional shares

Subsidiaries excluded from the consolidation for the year ended December 31, 2018:

Subsidiaries	Reason
Beijing Daekyo Co., Ltd	Liquidation
Heungkuk Altoran Securities Private Investment Trust	Liquidation
Hyundai Advantage Private Equity 5	Liquidation

2. Significant Accounting Policies

The principal accounting policies applied in the preparation of these consolidated financial statements are set out below. These policies have been consistently applied to all the years presented, unless otherwise stated.

2.1 Basis of Preparation

The Group maintains its accounting records in Korean won and prepares statutory financial statements in the Korean language (Hangul) in accordance with International Financial Reporting Standards as adopted by the Republic of Korea (Korean IFRS). The accompanying consolidated financial statements have been condensed, restructured and translated into English from the Korean language financial statements.

Certain information attached to the Korean language financial statements, but not required for a fair presentation of the Group's financial position, financial performance or cash flows, is not presented in the accompanying consolidated financial statements.

The consolidated financial statements of the Group have been prepared in accordance with Korean IFRS. These are the standards, subsequent amendments and related interpretations issued by the International Accounting Standards Board (IASB) that have been adopted by the Republic of Korea.

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The preparation of financial statements requires the use of critical accounting estimates. Management also needs to exercise judgement in applying the Group's accounting policies. The areas involving a higher degree of judgment or complexity, or areas where assumptions and estimates are significant to the consolidated financial statements are disclosed in Note 3.

2.1.1 Changes in Accounting Policies and Disclosures

2.2.1 New and amended standards adopted by the Group

The Group has applied the following standards and amendments for the first time for their annual reporting period commencing January 1, 2018.

(a) Amendment to Korean IFRS 1028 *Investments in Associates and Joint Ventures*

When an investment in an associate or a joint venture is held by, or is held indirectly through, an entity that is a venture capital organization, or a mutual fund, unit trust and similar entities including investment-linked insurance funds, the entity may elect to measure each investment separately at fair value through profit or loss in accordance with Korean IFRS 1109. The amendment does not have a significant impact on the financial statements because the Group is not a venture capital organization.

(b) Amendment to Korean IFRS 1040 *Transfers of Investment Property*

The amendment to Korean IFRS 1040 clarifies that a transfer to, or from, investment property, including property under construction, can only be made if there has been a change in use that is supported by evidence, and the list of evidence for a change of use in the standard was re-characterized as a non-exclusive list of example. The amendment does not have a significant impact on the financial statements.

(c) Amendment to Korean IFRS 1102 *Share-based Payment*

Amendments to Korean IFRS 1102 clarify accounting for a modification to the terms and conditions of a share-based payment that changes the classification of the transaction from cash-settled to equity-settled. Amendments also clarify that the measurement approach should treat the terms and conditions of a cash-settled award in the same way as for an equity-settled award. The amendment does not have a significant impact on the financial statements.

(d) Enactment of Interpretation 2122 *Foreign Currency Transaction and Advance Consideration*

According to the enactment, the date of the transaction for the purpose of determining the exchange rate to use on initial recognition of the related asset, expense or income (or part of it) is the date on which an entity initially recognizes the non-monetary asset or non-monetary liability arising from the payment or receipt of advance consideration. The enactment does not have a significant impact on the financial statements.

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(e) Korean IFRS 1109 *Financial Instruments*

The Group has applied Korean IFRS 1109 *Financial Instruments* on January 1, 2018, the date of initial application. In accordance with the transitional provisions in Korean IFRS 1109, comparative figures have not been restated, and the differences between previous book amounts and book amounts at the date of initial application are recognized to retained earnings. See Note 42 for further details on the impact of the application of the standard.

(f) Korean IFRS 1115 *Revenue from Contracts with Customers*

The Group has applied to apply Korean IFRS 1115 *Revenue from Contracts with Customers*. In accordance with the transition provisions in Korean IFRS 1115, comparative figures have not been restated. The Group elected the modified retrospective approach, and recognized the cumulative impact of initially applying the revenue standard as an adjustment to retained earnings as at January 1, 2018, the period of initial application. See Note 42 for further details on the impact of the application of the standard.

2.2.2 New standards and interpretations not yet adopted by the Group

Certain new accounting standards and interpretations that have been published that are not mandatory for annual reporting period commencing January 1, 2018 and have not been early adopted by the Group are set out below.

(a) Korean IFRS 1116 *Leases*

Korean IFRS 1116 *Leases* issued on May 22, 2017 is effective for annual periods beginning on or after January 1, 2019, with early adoption permitted. This standard will replace Korean IFRS 1017 *Leases*. The Group will apply the standards for annual periods beginning on or after January 1, 2019.

Under the new standard, with implementation of a single lease model, lessee is required to recognize assets and liabilities for all lease which lease term is over 12 months and underlying assets are not low value assets. A lessee is required to recognize a right-of-use asset and a lease liability representing its obligation to make lease payments.

The Group performed an impact assessment to identify potential financial effects of applying Korean IFRS 1116. The Group is analyzing the effects on the financial statements based on available information as at December 31, 2018 to identify effects on 2019 financial statements; however, it is difficult to provide reasonable estimates of financial effects until the analysis is complete.

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(b) Korean IFRS 1109 *Financial Instruments*

The narrow-scope amendments made to Korean IFRS 1109 *Financial Instruments* enable entities to measure certain prepayable financial assets with negative compensation at amortized cost. When a modification of a financial liability measured at amortized cost that does not result in the derecognition, a modification gain or loss shall be recognized in profit or loss. These amendments will be applied for annual periods beginning on or after January 1, 2019, with early adoption permitted.

(c) Amendments to Korean IFRS 1019 *Employee Benefits*

The amendments require that an entity shall calculate current service cost and net interest for the remainder of the reporting period after a plan amendment, curtailment or settlement based on updated actuarial assumptions from the date of the change. The amendments also require that a reduction in a surplus must be recognized in profit or loss even if that surplus was not previously recognized because of the impact of the asset ceiling. The amendments are effective for plan amendments, curtailments and settlements occurring in reporting periods that begin on or after January 1, 2019.

(d) Amendments to Korean IFRS 1028 *Investments in Associates and Joint Ventures*

The amendments clarify that an entity shall apply Korean IFRS 1109 to financial instruments in an associate or joint venture to which the equity method is not applied. These include long-term interests that, in substance, form part of the entity's net investment in an associate or joint venture. These amendments will be applied for annual periods beginning on or after January 1, 2019, with early adoption permitted. In accordance with the transitional provisions in Korean IFRS 1109, the restatement of the comparative information is not required and the cumulative effects of initially applying the amendments should be retrospectively recognized in the beginning balance of retained earnings at the date of initial application.

(e) Enactment to Interpretation of Korean IFRS 2123 *Uncertainty over Income Tax Treatments*

The Interpretation explains how to recognize and measure deferred and current income tax assets and liabilities where there is uncertainty over a tax treatment, and includes guidance on how to determine whether each uncertain tax treatment is considered separately or together. It also presents examples of circumstances where a judgement or estimate is required to be reassessed. This Interpretation will be applied for annual periods beginning on or after January 1, 2019, and an entity can either restate the comparative financial statements retrospectively or recognize the cumulative effect of initially applying the Interpretation as an adjustment in the beginning balance at the date of initial application.

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(f) Annual Improvements to Korean IFRS 2015 – 2017 Cycle:

- Korean IFRS 1103 *Business Combination*

The amendments clarify that when a party to a joint arrangement obtains control of a business that is a joint operation, and had rights to the assets and obligations for the liabilities relating to that joint operation immediately before the acquisition date, the transaction is a business combination achieved in stages. In such cases, the acquirer shall remeasure its entire previously held interest in the joint operation. These amendments will be applied to business combinations for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after January 1, 2019, with early adoption permitted.

- Korean IFRS 1111 *Joint Agreements*

The amendments clarify that when a party that participates in, but does not have joint control of, a joint operation might obtain joint control of the joint operation in which the activity of the joint operation constitutes a business. In such cases, previously held interests in the joint operation are not remeasured. These amendments will be applied to transactions in which an entity obtains joint control on or after the beginning of the first annual reporting period beginning on or after January 1, 2019, with early adoption permitted.

- Paragraph 57A of Korean IFRS 1012 *Income Tax*

The amendment is applied to all the income tax consequences of dividends and requires an entity to recognize the income tax consequences of dividends in profit or loss, other comprehensive income or equity according to where the entity originally recognized those past transactions or events. These amendments will be applied for annual reporting periods beginning on or after January 1, 2019, with early adoption permitted.

- Korean IFRS 1023 *Borrowing Costs*

The amendments clarify that if a specific borrowing remains outstanding after the related qualifying asset is ready for its intended use (or sale), it becomes part of general borrowings. These amendments will be applied to borrowing costs incurred on or after the beginning of the first annual reporting period beginning on or after January 1, 2019, with early adoption permitted.

2.2 Consolidation

The Group has prepared the consolidated financial statements in accordance with Korean IFRS 1110 '*Consolidated Financial Statements*'.

(a) Subsidiaries

Subsidiaries are all entities over which the Group has control. The Group controls an entity when the Group is exposed to, or has rights to, variable returns from its involvement with the entity and has the ability to affect those returns through its power to direct the activities of the entity.

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Subsidiaries are fully consolidated from the date on which control is transferred to the Group. They are deconsolidated from the date that control ceases.

The acquisition method of accounting is used to account for business combinations by the Group. The consideration transferred is measured at the fair values of the assets transferred, and identifiable assets acquired and liabilities and contingent liabilities assumed in a business combination are measured initially at their fair values at the acquisition date. The Group recognizes any non-controlling interest in the acquired entity on an acquisition-by-acquisition basis either at fair value or at the non-controlling interest's proportionate share of the acquired entity's net identifiable assets. All other non-controlling interests are measured at fair values, unless otherwise required by other standards. Acquisition-related costs are expensed as incurred.

The excess of consideration transferred, amount of any non-controlling interest in the acquired entity and acquisition-date fair value of any previous equity interest in the acquired entity over the fair value of the net identifiable assets acquired is recorded as goodwill. If those amounts are less than the fair value of the net identifiable assets of the business acquired, the difference is recognized directly in the profit or loss as a bargain purchase.

Intercompany transactions, balances and unrealized gains on transactions between group companies are eliminated. Accounting policies of subsidiaries have been changed where necessary to ensure consistency with the policies adopted by the Group.

(b) Changes in ownership interests in subsidiaries without change of control

The Group treats transactions with non-controlling interests that do not result in a loss of control as transactions with equity owners of the Group. A changed in ownership interest results in an adjustment between the carrying amounts of the controlling and non-controlling interest to reflect their relative interest in the subsidiary. Any difference between the amount of the adjustment to non-controlling interest and any consideration paid or received is recognized in a separate reserve within equity attributable to owners of the Parent Company.

(c) Disposal of subsidiaries

When the Group ceases to consolidate for a subsidiary because of a loss of control, any retained interest in the subsidiary is remeasured to its fair value with the changed in carrying amount recognized in profit or loss.

(d) Associates

Associates are entities over which the Group has significant influence but not control or joint control. Investments in associates are accounted for using the equity method of accounting, after initially being recognized at cost. Unrealized gains on transactions between the Group and its associates are eliminated to the extent of the Group's interest in the associates. If there is objective evidence of impairment for the investment in the associate, the Group recognizes the

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difference between the recoverable amount of the associate and its book amount as impairment loss.

2.3 Segment Reporting

Group's operating segments are disclosed by entities reported to chief operating decision maker, the representative director, disclosures related to segment reporting are disclosed in 'Note 6' in accordance with Korean IFRS 1108, Segment reporting.

2.4 Foreign Currency Translation

(a) Functional and presentation currency

Items included in the financial statements of each of the Group's entities are measured using the currency of the primary economic environment in which the each entity operates (the "functional currency"). The consolidated financial statements are presented in Korean won, which is the Controlling Company's functional and presentation currency.

(b) Transactions and balances

Foreign currency transactions are translated into the functional currency using the exchange rates prevailing at the dates of the transactions or valuation where items are re-measured. Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation at year-end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognized in profit or loss, except when deferred in other comprehensive income as qualifying cash flow hedges.

Foreign exchange gains and losses that relate to borrowings and cash and cash equivalents are presented in 'finance income or costs' in the statement of profit or loss. All other foreign exchange gains and losses are presented in 'other income and expenses' in the statement of profit or loss.

Exchange differences arising on non-monetary financial assets and liabilities such as equity instruments at fair value through profit or loss and equity instruments at fair value through other comprehensive income are recognized in profit or loss and included in other comprehensive income, respectively, as part of the fair value gain or loss.

2.5 Cash and Cash Equivalents

Cash and cash equivalents include cash in hand, deposits held at call with banks, and other short-term highly liquid investments with original maturities of three months or less.

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2.6 Financial Assets

(a) Classification

From January 1, 2018, the Group classifies its financial assets in the following measurement categories:

- those to be measured at fair value through profit or loss
- those to be measured at fair value through other comprehensive income, and
- those to be measured at amortized cost.

The classification depends on the Group's business model for managing the financial assets and the contractual terms of the cash flows.

For financial assets measured at fair value, gains and losses will either be recorded in profit or loss or other comprehensive income. For investments in debt instruments, this will depend on the business model in which the investment is held. The Group reclassifies debt investments when, and only when its business model for managing those assets changes.

For investments in equity instruments that are not held for trading, this will depend on whether the Group has made an irrevocable election at the time of initial recognition to account for the equity investment at fair value through other comprehensive income.

(b) Measurement

At initial recognition, the Group measures a financial asset at its fair value plus, in the case of a financial asset not at fair value through profit or loss, transaction costs that are directly attributable to the acquisition of the financial asset. Transaction costs of financial assets carried at fair value through profit or loss are expensed in profit or loss.

Financial assets with embedded derivatives are considered in their entirety when determining whether their cash flows are solely payment of principal and interest.

A. Debt instruments

Subsequent measurement of debt instruments depends on the Group's business model for managing the asset and the cash flow characteristics of the asset. The Group classifies its debt instruments into one of the following three measurement categories:

- **Amortized cost:** Assets that are held for collection of contractual cash flows where those cash flows represent solely payments of principal and interest are measured at amortized cost. A gain or loss on a debt investment that is subsequently measured at amortized cost and is not part of a hedging relationship is recognized in profit or loss when the asset is derecognized or impaired. Interest income from these financial assets is included in 'finance income' using the effective interest rate method.

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- Fair value through other comprehensive income: Assets that are held for collection of contractual cash flows and for selling the financial assets, where the assets' cash flows represent solely payments of principal and interest, are measured at fair value through other comprehensive income. Movements in the carrying amount are taken through other comprehensive income, except for the recognition of impairment loss (reversal of impairment loss), interest income and foreign exchange gains and losses which are recognized in profit or loss. When the financial asset is derecognized, the cumulative gain or loss previously recognized in other comprehensive income is reclassified from equity to profit or loss. Interest income from these financial assets is included in 'finance income' using the effective interest rate method. Foreign exchange gains and losses are presented in 'other income or expenses' and impairment losses are presented in 'other expenses'.
- Fair value through profit or loss: Assets that do not meet the criteria for amortized cost or fair value through other comprehensive income are measured at fair value through profit or loss. A gain or loss on a debt investment that is subsequently measured at fair value through profit or loss and is not part of a hedging relationship is recognized in profit or loss and presented net in the statement of profit or loss within 'other income or expenses' in the year in which it arises.

B. Equity instruments

The Group subsequently measures all equity investments at fair value. Where the Group's management has elected to present fair value gains and losses on equity investments, which held for long-term investment or strategic purpose, in other comprehensive income, there is no subsequent reclassification of fair value gains and losses to profit or loss following the derecognition of the investment. Dividend income from such investments continue to be recognized in profit or loss as 'other income' when the right to receive payments is established.

Changes in the fair value of financial assets at fair value through profit or loss are recognized in 'other income and expenses' in the statement of profit or loss as applicable. Impairment loss (reversal of impairment loss) on equity investments measured at fair value through other comprehensive income are not reported separately from other changes in fair value.

(c) Impairment

The Group assesses on a forward looking basis the expected credit losses associated with its debt instruments carried at amortized cost and fair value through other comprehensive income. The impairment methodology applied depends on whether there has been a significant increase in credit risk. For trade receivables and lease receivables, the Group applies the simplified approach, which requires expected lifetime credit losses to be recognized from initial recognition of the receivables.

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(d) Recognition and Derecognition

Regular way purchases and sales of financial assets are recognized or derecognized on trade-date, the date on which the Group commits to purchase or sell the asset. Financial assets are derecognized when the rights to receive cash flows from the financial assets have expired or have been transferred and the Group has transferred substantially all the risks and rewards of ownership.

If a transfer does not result in derecognition because the Group has retained substantially all the risks and rewards of ownership of the transferred asset, the Group continues to recognize the transferred asset in its entirety and recognizes a financial liability for the consideration received. The Group classified the financial liability as "borrowings" in the statement of financial position.

(e) Offsetting of financial instruments

Financial assets and liabilities are offset and the net amount reported in the statements of financial position where there is a legally enforceable right to offset the recognized amounts and there is an intention to settle on a net basis or realize the assets and settle the liability simultaneously. The legally enforceable right must not be contingent on future events and must be enforceable in the normal course of business and in the event of default, insolvency or bankruptcy of the Group or the counterparty.

2.7 Derivative Instruments

Derivatives are initially recognized at fair value on the date when a derivative contract is entered into and are subsequently remeasured at their fair value at the end of each reporting period. Changes in the fair value of any derivative instrument that are not qualified for hedge accounting are recognized in profit or loss within 'other income (expenses)' or 'finance income (costs)' based on the nature of transactions.

2.8 Trade Receivables

Trade receivables are amounts due from customers for merchandise sold or services performed in the ordinary course of business. If collection is expected in one year or less, they are classified as current assets. If not, they are presented as non-current assets. Trade receivables are recognized initially at fair value and subsequently measured at amortized cost using the effective interest method, less loss allowance. See Note 9 for further information about the Group's accounting for trade receivables and Note 4.1.2 for description of the Group's impairment policies.

2.9 Inventories

Inventories are stated at the lower of cost and net realizable value. Cost is determined using the moving average method and FIFO method.

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2.10 Non-current Assets (or disposal group) Held for Sale

Non-current assets (or disposal group) are classified as 'non-current assets held-for-sale' (or assets of disposal group classified as held for sale) when their carrying amount is to be recovered principally through a sale transaction and a sale is considered highly probable. They are stated at the lower of carrying amount and fair value less costs to sell.

2.11 Property, Plant and Equipment

Property, plant and equipment are stated at historical cost less accumulated depreciation and accumulated impairment losses. Historical cost includes expenditure that is directly attributable to the acquisition of the items.

Subsequent costs are included in the asset's carrying amount or recognized as a separate asset, as appropriate, only when it is probable that future economic benefits associated with the item will flow to the Group and the cost of the item can be measured reliably. The carrying amount of the replaced part is derecognized. All other repairs and maintenance are charged to the statement of income during the financial period in which they are incurred.

Land, standing timber and construction-in-progress are not depreciated. Depreciation on other assets is calculated using the straight-line method to allocate the difference between their cost and their residual values over their estimated useful lives, as follows:

	Estimated Useful lives
Buildings	40 - 60 years
Structures	3 - 40 years
Machinery	4 - 5 years
Vehicles	4 - 10 years
Tools	4 - 6 years
Supplies	3 - 17 years
Equipment	5 years

The assets' depreciation method, residual values and useful lives are reviewed, and adjusted if appropriate, at the end of each reporting period. An asset's carrying amount is written down immediately to its recoverable amount if the asset's carrying amount is greater than its estimated recoverable amount. Gains and losses on disposals are determined by comparing the proceeds with the carrying amount and are recognized within 'other income (expenses)' in the statement of profit or loss.

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2.12 Borrowing Costs

General and specific borrowing costs that are directly attributable to the acquisition, construction or production of a qualifying asset are capitalized during the period of time that is required to complete and prepare the asset for its intended use or sale. Investment income earned on the temporary investment of specific borrowings pending their expenditure on qualifying assets is deducted from the borrowing costs eligible for capitalization. Other borrowing costs are expensed in the period in which they are incurred.

2.13 Investment Property

Investment properties is property held to earn rentals or for capital appreciation or both. An investment properties is measured initially at its cost. An investment properties is measured after initial measurement at depreciated cost (less any accumulated impairment losses). After recognition as an asset, investment properties is carried at cost less accumulated depreciation and impairment losses. The Group depreciates investment properties, except for land, using the straight-line method over their useful lives of 40 to 60 years.

2.14 Intangible Assets

(a) Goodwill

Goodwill is measured as explained in Note 2.2 and goodwill arising on the acquisition of subsidiaries and business is included in intangible assets. Goodwill is tested annually for impairment and carried at cost less accumulated impairment losses. Impairment losses on goodwill are not reversed. Gains and losses on the disposal of an entity include the carrying amount of goodwill relating to the entity sold.

For the purpose of impairment testing, goodwill acquired in a business combination is allocated to each of the CGUs, or group of CGUs, that is expected to benefit from the synergies of the combination.

Goodwill impairment reviews are undertaken annually or more frequently if events or changes in circumstances indicate a potential impairment. The carrying amount of goodwill is compared to the recoverable amount, which is the higher of value in use and the fair value less costs to sell. Any impairment is recognized immediately as an expense and is not subsequently reversed.

(b) Membership rights

Membership rights are regarded as intangible assets with indefinite useful life and not amortized because there is no foreseeable limit to the period over which the asset is expected to be utilized.

(c) Development Costs

Expenditure on research is recognized as an expense as incurred. Development costs which are

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individually identifiable and directly related to a new technology or to new products which carry probable future economic benefits are recognized as intangible assets when all the following criteria are met:

- It is technically feasible to complete the intangible asset so that it will be available for use or sale;
- Management intends to complete the intangible asset and use or sell it;
- There is the ability to use or sell the intangible asset;
- It can be demonstrated how the intangible asset will generate probable future economic benefits;
- Adequate technical, financial and other resources to complete the development and to use or sell the intangible asset are available; and
- The expenditure attributable to the intangible asset during its development can be reliably measured.

Other development expenditures that do not meet these criteria are recognized as an expense as incurred. Development costs previously recognized as an expense are not recognized as an asset in a subsequent period. Capitalized development costs stated as intangible assets are amortized using the straight-line method or declining-balance method over their estimated useful lives when the assets are available for using or selling and are tested for impairment.

	<u>Estimated Useful Lives</u>	<u>Depreciation Method</u>
Development Cost	2 - 4 years	Straight-line method, declining-balance method

Internally Generated Development Cost

The Group generally recognizes expenditures incurred after the capitalization assessment phase as intangible assets, and expenditures incurred before the phase are recognized as expenses within research and development expenses.

(d) Other intangible assets

Other intangible assets such as industrial property rights and software which meet the definition of an intangible asset are amortized using the following depreciation method and estimated useful lives when the asset is available for use.

	<u>Estimated Useful Lives</u>	<u>Depreciation Method</u>
Industrial property rights	5 - 10 years	Straight-line method
Software	4 years	Straight-line method
Other intangible assets	1 - 15 years	Straight-line method
Right to use donated assets	1 - 4 years	Straight-line method

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(e) Technology

Technology is intangible asset acquired by business combination, which is measured at fair value as at acquisition date. The Group develops and holds technologies such as unit knowledge data analysis for customized learning program and algorithm for tailored content recommendation. It is amortized using the following estimated useful lives and depreciation method.

	Estimated Useful Lives	Depreciation Method
Technology	14 years	Straight-line method

2.15 Government Grants

Government grants are recognized at their fair value where there is a reasonable assurance that the grant will be received and the Group will comply with all attached conditions.

Government grants related to income are deferred and recognized in the statement of profit or loss over the period necessary to match them with the costs that they are intended to compensate.

Government grants related to property, plant and equipment are presented by deducting the grants in arriving at carrying amount of the assets and are credited to depreciation over the expected lives of the related assets.

2.16 Impairment of Non-financial Assets

Goodwill and intangible assets that have an indefinite useful life are not subject to amortization and are tested annually for impairment, or more frequently if events or changes in circumstances indicate that they might be impaired. Other assets are tested for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. An impairment loss is recognized for the amount by which the asset's carrying amount exceeds its recoverable amount. The recoverable amount is the higher of an asset's fair value less costs of disposal and value in use. Non-financial assets other than goodwill that suffered an impairment are reviewed for possible reversal of the impairment at the end of each reporting period.

2.17 Financial Liabilities

(a) Classification and measurement

The Group's financial liabilities at fair value through profit or loss are financial instruments held for trading. A financial liability is held for trading if it is incurred principally for the purpose of repurchasing in the near term. A derivative that is not a designated as hedging instruments and an embedded derivative that is separated are also classified as held for trading.

The Group classifies non-derivative financial liabilities, except for financial liabilities at fair value through profit or loss, financial guarantee contracts and financial liabilities that arise when a transfer of financial assets does not qualify for derecognition, as financial liabilities carried at amortized cost and present as 'trade payables', 'borrowings', and 'other financial liabilities' in the

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statement of financial position.

Preferred shares that require mandatory redemption at a particular date are classified as liabilities. Interest expenses on these preferred shares using the effective interest method are recognized in the statement of profit or loss as 'finance costs', together with interest expenses recognized from other financial liabilities.

(b) Derecognition

Financial liabilities are removed from the statement of financial position when it is extinguished; for example, when the obligation specified in the contract is discharged or cancelled or expired or when the terms of an existing financial liability are substantially modified. The difference between the carrying amount of a financial liability extinguished or transferred to another party and the consideration paid (including any non-cash assets transferred or liabilities assumed) is recognized in profit or loss.

2.18 Trade and Other Payables

These amounts represent liabilities for goods and services provided to the Group prior to the end of reporting period which are unpaid. Trade and other payables are presented as current liabilities, unless payment is not due within 12 months after the reporting period. They are recognized initially at their fair value and subsequently measured at amortized cost using the effective interest method.

2.19 Borrowings

Borrowings are recognized initially at fair value, net of transaction costs incurred. Borrowings are subsequently carried at amortized cost; any difference between the proceeds (net of transaction costs) and the redemption value is recognized in the statement of income over the period of the borrowings using the effective interest method. The Group classifies the liability as current as long as it does not have an unconditional right to defer its settlement for at least 12 months after the reporting date.

2.20 Provisions

Provisions are recognized when the Group has a present legal or constructive obligation as a result of past events and an outflow of resources required to settle the obligation is probable and can be reliably estimated. Provisions are not recognized for future operating losses.

2.21 Current and Deferred Tax

The tax expense for the period consists of current and deferred tax. Current and deferred tax is recognized in profit or loss, except to the extent that it relates to items recognized in other comprehensive income or directly in equity. In this case, the tax is also recognized in other comprehensive income or directly in equity, respectively.

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The tax expense is measured at the amount expected to be paid to the taxation authorities, using the tax rates (and tax laws) that have been enacted or substantively enacted by the end of the reporting period.

Management periodically evaluates positions taken in tax returns with respect to situations in which applicable tax regulation is subject to interpretation. The Group recognizes current income tax on the basis of amounts expected to be paid to the tax authorities.

Deferred income tax is provided in full, using the liability method, on temporary differences arising between the tax bases of assets and liabilities and their carrying amounts in the consolidated financial statements. However, deferred income tax is not accounted for if it arises from initial recognition of an asset or liability in a transaction other than a business combination that at the time of the transaction affects neither accounting nor taxable profit or loss.

Deferred tax assets are recognized only if it is probable that future taxable amounts will be available to utilize those temporary differences and losses.

The Group recognizes a deferred tax liability all taxable temporary differences associated with investments in subsidiaries, associates, and interests in joint arrangements, 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. In addition, The Group recognizes a deferred tax asset for all deductible temporary differences arising from such investments to the extent that it is probable 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 offset when there is a legally enforceable right to offset current tax assets and liabilities and when the deferred tax balances relate to the same taxation authority. Current tax assets and tax liabilities are offset where the entity has a legally enforceable right to offset and intends either to settle on a net basis.

2.22 Employee Benefits

(a) Post-employment benefits

The Group companies operate various pension schemes. The schemes are generally funded through payments to insurance companies or trustee-administered funds, determined by periodic actuarial calculations. The Group has both defined benefit and defined contribution plans.

A defined contribution plan is a pension plan under which the Group pays fixed contributions into a separate entity. The Group has no legal or constructive obligations to pay further contributions if the fund does not hold sufficient assets to pay all employees the benefits relating to employee service in the current and prior periods. For defined contribution plans, the Group pays contributions to publicly or privately administered pension insurance plans on a mandatory, contractual or voluntary basis. The Group has no further payment obligations once the

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contributions have been paid. The contributions are recognized as employee benefit expense when employees render services. Prepaid contributions are recognized as an asset to the extent that a cash refund or a reduction in the future payments is available.

A defined benefit plan is a pension plan that is not a defined contribution plan. Typically defined benefit plans define an amount of pension benefit that an employee will receive on retirement, usually dependent on one or more factors such as age, years of service and compensation. The liability(asset) recognized in the statement of financial position in respect of defined benefit pension plans is the present value of the defined benefit obligation at the end of the reporting period less the fair value of plan assets. The defined benefit obligation is calculated annually by independent actuaries using the projected unit credit method. The present value of the defined benefit obligation is determined by discounting the estimated future cash outflows using interest rates of high-quality corporate bonds that are denominated in the currency in which the benefits will be paid, and that have terms to maturity approximating to the terms of the related pension liability. The remeasurements of the net defined benefit liability are recognized in other comprehensive income.

If any plan amendments, curtailments, or settlements occur, past service costs or any gains or losses on settlement are recognized as profit or loss for the year.

(b) Share-based payments

The Group operates equity-settled, share-based compensation plans, under which the Group receives services from employees as consideration for equity instruments (options) of the Group. The fair value of the employee services received in exchange for the grant of the options is recognized as an expense. The total amount to be expensed is determined by reference to the fair value of the options granted. The Group makes payments with its treasury shares when the options are exercised.

2.23 Share Capital

Ordinary shares and preferred shares that are not mandatorily redeemable are classified as equity.

Where the Group purchases its own equity share capital (treasury shares), the consideration paid, including any directly attributable incremental costs is deducted from equity attributable to the Company's equity holders until the shares are cancelled or reissued. Where such ordinary shares are subsequently reissued, any consideration received is included in equity attributable to the Company's equity holders.

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2.24 Revenue Recognition

From January 1, 2018, the Group has applied Korean IFRS 1115 *Revenue from Contracts with Customers*.

(a) Sales of goods

The Group sells weekly home-school materials, reference books, collections, publications and others. Sales of goods are recognized when products are delivered to the purchaser. Delivery does not occur until the products have been shipped to the specified location, the risks of obsolescence and loss have been transferred to the wholesaler, and either the purchaser has accepted the products in accordance with the sales contract, the acceptance provisions have lapsed or the Group has objective evidence that all criteria for acceptance have been satisfied.

(b) Rendering of services

For rendering of services, the Group recognizes revenue when services are provided to the customer. Meanwhile, revenue of rendering services that controls are transferred throughout period are recognized by percentage-of-completion method, such as education services relating after-school teaching, rental services, royalty income and etc.

(c) Rendering of contents

The Group provides education solutions to customers using technology of developing education contents. The Group recognizes revenue based on customer's subsequent use for the education solution contents.

2.25 Lease

A lease is an agreement, whereby the lessor conveys to the lessee, in return for a payment or series of payments, the right to use an asset for an agreed period of time. Leases in which a significant portion of the risks and rewards of ownership are not transferred to the Group are classified as operating leases. Payments made under operating leases are charge to profit or loss on a straight-line basis over the period of lease.

Leases where the Group, as lessee, has substantially all the risks and rewards of ownership are classified as finance leases. Finance leases are capitalized at the lease's inception at the fair value of the leased property or, if lower, the present value of the minimum lease payments. The corresponding rental obligations, net of finance charges, are included in other short-term and long-term payables. Each lease payment is allocated between the liability and finance cost.

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If the Group is a lessor, a lease is classified as a finance lease if it transfers substantially all the risks and rewards incidental to ownership at the inception of the lease. A lease other than a finance lease is classified as an operating lease. Lease income from operating leases is recognized in income on a straight-line basis over the lease term. Initial direct costs incurred by the lessor in negotiating and arranging an operating lease is added to the carrying amount of the leased asset and recognized as an expense over the lease term on the same basis as the lease income.

2.26 Dividend Distribution

Dividend distribution to the Company's shareholders is recognized as a liability in the financial statements in the period in which the dividends are approved by the Company's shareholders.

2.27 Business Combinations

The acquisition method of accounting is used to account for business combinations by the Group. The consideration transferred is measured at the fair values of the assets transferred, and identifiable assets acquired and liabilities and contingent liabilities assumed in a business combination are measured initially at their fair values at the acquisition date. The Group recognizes any non-controlling interest in the acquired entity on an acquisition-by-acquisition basis either at fair value or at the non-controlling interest's proportionate share of the acquired entity's net identifiable assets. All other non-controlling interests are measured at fair values, unless otherwise required by other standards. Acquisition-related costs are expensed as incurred.

The excess of consideration transferred, amount of any non-controlling interest in the acquired entity and acquisition-date fair value of any previous equity interest in the acquired entity over the fair value of the net identifiable assets acquired is recoded as goodwill. If those amounts are less than the fair value of the net identifiable assets of the business acquired, the difference is recognized directly in the profit or loss as a bargain purchase.

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3. Critical Accounting Estimates and Assumptions

The preparation of financial statements requires the Group to make estimates and assumptions concerning the future. Management also needs to exercise judgement in applying the Group's accounting policies. Estimates and assumptions are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances. As the resulting accounting estimates will, by definition, seldom equal the related actual results, it can contain a significant risk of causing a material adjustment.

The estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are discussed below. Additional information of significant judgement and assumptions of certain items are included in relevant notes.

(a) Estimated impairment of goodwill

The Group tests annually whether goodwill has suffered any impairment in accordance with the accounting policy stated in Note 2.16. The recoverable amounts of cash-generating units have been determined based on value-in-use calculations. These calculations require the use of estimates.

(b) Income taxes

The Group is operating in numerous countries and the income generated from these operations is subject to income taxes based on tax laws and interpretations of tax authorities in numerous jurisdictions. There are many transactions and calculations for which the ultimate tax determination is uncertain.

If certain portion of the taxable income is not used for investments or increase in wages or dividends in accordance with the *Tax System For Recirculation of Corporate Income*, the Group is liable to pay additional income tax calculated based on the tax laws. The new tax system is effective for three years from 2015. Accordingly, the measurement of current and deferred income tax is affected by the tax effects from the new tax system. As the Group's income tax is dependent on the investments, increase in wages and dividends, there is an uncertainty measuring the final tax effects.

(c) Fair value of financial instruments

The fair value of financial instruments that are not traded in an active market is determined by using valuation techniques. The Group uses its judgment to select a variety of methods and make assumptions that are mainly based on market conditions existing at the end of each reporting period.

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(d) Impairment of financial assets

The provision for impairment for financial assets are based on assumptions about risk of default and expected loss rates. The Group uses judgement in making these assumptions and selecting the inputs to the impairment calculation based on the Group's past history, existing market conditions as well as forward looking estimates at the end of each reporting period (Note 4.1.2).

(e) Net defined benefit liability

The present value of net defined benefit liability depends on a number of factors that are determined on an actuarial basis using a number of assumptions including the discount rate (Note 21)

4. Financial Risk Management

4.1 Financial Risk Factors

The Group's activities expose it to a variety of financial risks: market risk (including foreign exchange risk, interest rate risk and price risk), credit risk and liquidity risk. The Group's overall risk management program focuses on the unpredictability of financial markets and seeks to minimize potential adverse effects on the Group's financial performance.

Risk management is carried out under policies approved by the board of directors. The board reviews and approves written principles for overall risk management, as well as written policies covering specific areas, such as foreign exchange risk, interest rate risk, credit risk, use of derivative financial instruments and non-derivative financial instruments, and investment of excess liquidity.

(a) Market risk

i) Foreign exchange risk

The Group operates internationally and is exposed to foreign exchange risk arising from foreign currency transactions, primarily with respect to the US dollar and the Chinese yuan. Foreign exchange risk arises from future commercial transactions, recognized assets and liabilities and net investments in foreign entities.

Management has set up a policy to require group companies to manage their foreign exchange risk against their functional currencies.

The Group has certain investments in foreign entities, whose net assets are exposed to foreign currency translation risk. Currency exposure arising from the net assets of the Group's foreign entities is managed primarily through trade receivables denominated in the relevant foreign currencies.

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The Group's financial assets exposed to foreign currency risk as at December 31, 2018 and 2017, are as follows:

<i>(in USD, CNY and millions of Korean won)</i>		December 31, 2018		December 31, 2017	
		Foreign currency	Korean won	Foreign currency	Korean won
Cash and cash equivalents	USD	3,139,914	3,511	7,133,843	7,643
	CNY	177,318	29	149,823	25
Trade receivables	USD	80,240	90	32,803	35
	CNY	371,998	61	369,133	60

The table below summarizes the impact of weakened/strengthened Korean won on the Group's equity and post-tax profit for the year. The analysis is based on the assumption that Korean won has weakened/strengthened by 1% with all other variables held constant.

<i>(in millions of Korean won)</i>	2018		2017	
	1% increase	1% decrease	1% increase	1% decrease
USD	27	(27)	58	(58)
CNY	1	(1)	1	(1)

ii) Interest rate risk

Interest rate risk is defined as the risk that the interest income or expenses arising from deposits and borrowings will fluctuate because of changes in future market interest rate. The interest rate risk mainly arises through floating rate deposits and borrowings.

As at December 31, 2018 and 2017, if interest rates had changed by 100bp with all other variables held constant, the effects on interest expense and interest income from floating rate deposits and borrowings are as follows:

<i>(in millions of Korean won)</i>	2018		2017	
	100bp increase	100bp decrease	100bp increase	100bp decrease
Interest income	5	(5)	121	(121)
Interest expense	210	(210)	197	(197)

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iii) Price risk

The Group is exposed to equity securities price risk because of investments held by the Group and classified on the consolidated statement of financial position as available-for-sale financial assets or financial assets at fair value through profit or loss. To manage its price risk arising from investments in equity securities, the Group diversifies its portfolio. Diversification of the portfolio is done in accordance with the limits set by the group.

If the prices of equity instruments had changed by 5% with all other variables held constant, the effects on profit (loss) for the year and total comprehensive income (loss) would be as follows:

(in millions of Korean won)	2018		2017	
	5% increase	5% decrease	5% increase	5% decrease
Profit (loss) for the year	5,064	(5,064)	1,963	(1,963)
Comprehensive income (loss)	7,679	(7,679)	10,040	(10,040)

(b) Credit Risk

The Group is exposed to credit risk when the following payments are not made after due date:

- Payment of trade receivables within certain period after issuance of invoice
- Contractual cash flow relating debt instruments at amortized costs
- Contractual cash flow relating debt instruments at fair value through other comprehensive income

A. Trade receivables

The Group applies the simplified approach to measuring expected credit losses which uses a lifetime expected loss allowance for all trade receivables. To measure the expected credit losses, trade receivables have been grouped based on shared credit risk characteristics and the days past due. The expected loss rates include forward-looking information.

The loss allowance as at December 31, 2018 was determined as follows for trade receivables:

(in millions of Korean won)	Current	Between				Total
		2 and 3 months	3 and 6 months	6 months and 1 year	Over 1 year	
Gross carrying amount	12,125	134	1,398	3,061	4,947	21,665
Loss allowance provision	-	4	227	801	4,635	5,667

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Movements in the loss allowance provision for trade receivables and contract assets for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018	2017¹
Beginning balance - Korean IFRS 1039	7,116	6,741
Amounts restated through beginning balance of retained earnings	(769)	-
Loss allowance as at January 1, 2018 - calculated under Korean IFRS 1109	6,347	6,741
Increase in loss allowance recognized in profit or loss during the year	1,398	944
Receivables written off during the year as uncollectible	(2,088)	(372)
Unused amounts reversed	-	-
Exchange differences	10	(197)
Ending balance	5,667	7,116

¹ The amounts as at December 31, 2017, were calculated under Korean IFRS 1039.

Individual receivables which were known to be uncollectible were written off by reducing the carrying amount directly. The other receivables were assessed collectively, to determine whether there was an objective evidence that an impairment had been incurred but not yet been identified. For these receivables, the estimated impairment losses were recognized in a separate provision for impairment.

The Group considered that there was evidence of impairment if any of the following indicators were present:

- significant financial difficulties of the debtor
- probability that the debtor will enter bankruptcy or financial reorganization, and
- default or delinquency in payments

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B. Other receivables

Other receivables at amortized cost include loans to related parties and others.

Movements in loss allowance provision for other financial assets at amortized cost for the year ended December 31, 2018, are as follows:

<i>(in millions of Korean won)</i>	Related parties	Other receivables	Total
Beginning balance - Korean IFRS 1039	-	5,250	5,250
Amounts restated through beginning balance of retained earnings	-	180	180
Loss allowance as at January 1, 2018 - calculated under Korean IFRS 1109	-	5,430	5,430
Increase in loss allowance recognized in profit or loss during the year	3	138	141
Receivables written off during the year as uncollectible	-	(155)	(155)
Exchange differences	-	(11)	(11)
Ending balance	3	5,402	5,405

All of other receivables at amortized costs are considered to have low credit risk. The Group consider other receivables at amortized costs to have low credit risk when they have a low risk of default and the issuer has a strong capacity to meet its contractual cash flow obligations in the near term.

C. Debt investments at fair value through other comprehensive income

Debt investments at fair value through other comprehensive income include government bonds, corporate bonds and trade receivables subject to be sold. The loss allowance for debt investments at fair value through other comprehensive income is recognized in profit or loss and reduces the fair value loss otherwise recognized in other comprehensive income.

All of the debt investments at fair value through other comprehensive income are considered to have low credit risk, and the loss allowance recognized during the period was, therefore, limited to 12 months expected losses. Management consider 'low credit risk' for listed bonds to be an investment grade credit rating with at least one major rating agency. Other instruments are considered to be low credit risk when they have a low risk of default and the issuer has a strong capacity to meet its contractual cash flow obligations in the near term. The Group applies the simplified approach to measuring expected credit losses which uses a lifetime expected loss allowance for all trade receivables.

There are no movements in loss allowance provision for debt investments at fair value through other comprehensive income for the year ended December 31, 2018.

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(c) Liquidity Risk

The Group forecasts its cash flow and liquidity status and sets action plans on a regular basis to manage liquidity risk proactively.

In addition, the Group copes with potential financial distress by maintaining adequate amount of cash and financial deposits. The balances of cash and cash equivalents, and current-financial deposits as at December 31, 2018, is ₩ 81,636 million (2017: ₩ 80,940 million).

The analysis of the Group's financial liabilities into relevant maturities based on the remaining period at the end of the reporting period to the contractual maturity date as at December 31, 2018 and 2017, are as follows:

December 31, 2018						
<i>(in millions of Korean won)</i>	Book amount	Cash flow on contract	Less than 1 year	Between 1 and 2 years	Between 2 and 5 years	Over 5 years
Trade payables	6,569	6,569	6,569	-	-	-
Derivative financial liabilities	195	195	195	-	-	-
Other payables (current)	66,840	66,840	66,840	-	-	-
Borrowings (current)	21,572	21,802	21,802	-	-	-
Other payables (non-current)	39,604	45,987	-	14,693	30,253	1,041
Borrowings (non-current)	8,342	9,032	268	476	8,288	-

December 31, 2017					
<i>(in millions of Korean won)</i>	Book amount	Cash flow on contract	Less than 1 year	Between 1 and 2 years	Between 2 and 5 years
Trade payables	8,894	8,894	8,894	-	-
Derivative financial liabilities	194	194	194	-	-
Other payables (current)	69,781	69,781	69,781	-	-
Borrowings (current)	19,930	20,595	20,595	-	-
Other payables (non-current)	10,952	10,952	-	10,952	-
Borrowings (non-current)	8,201	9,160	264	914	7,982

The amounts disclosed in the table are the contractual undiscounted cash flows, prepared based on the earliest date of the payments that can be requested and the cash flow of interest is included.

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4.2 Capital Management

The Group's objectives when managing capital are to maintain a sound capital structure. The Group monitors capital on the basis of the liabilities/equity ratio which is calculated as total liabilities divided by total equity on consolidated statements of financial position.

Debt-to-equity ratios as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	<u>December 31, 2018</u>	<u>December 31, 2017</u>
Total liabilities (A)	213,502	180,165
Total equity (B)	616,826	676,932
Debt-to-equity ratio (A/B)	35%	27%

5. Fair Value

5.1 Fair Value of Financial Instruments by Category

Carrying amount and fair value of financial instruments by category as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	<u>December 31, 2018</u>		<u>December 31, 2017</u>	
	<u>Carrying amount</u>	<u>Fair value</u>	<u>Carrying amount</u>	<u>Fair value</u>
Financial assets				
Current:				
Cash and cash equivalents	58,508	58,508	60,252	60,252
Financial deposits	23,128	23,128	20,688	20,688
Trade receivables	15,998	15,998	21,355	21,355
Other receivables	34,770	34,770	43,396	43,396
Financial assets at fair value through profit or loss ¹	131,226	131,226	51,799	51,799
Available-for-sale financial assets ¹	-	-	103,810	103,810
Derivative financial assets	-	-	666	666
	<u>263,630</u>	<u>263,630</u>	<u>301,966</u>	<u>301,966</u>
Non-current:				
Other receivables	14,666	14,711	9,048	9,083
Financial assets at fair value through profit or loss	28,735	28,735	-	-
Financial assets at fair value through other comprehensive income	82,204	82,204	-	-
Available-for-sale financial assets ¹	<u>-</u>	<u>-</u>	<u>135,219</u>	<u>135,219</u>

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(in millions of Korean won)

	December 31, 2018		December 31, 2017	
	Carrying amount	Fair value	Carrying amount	Fair value
	125,605	125,650	144,267	144,302
	389,235	389,280	446,233	446,268
Financial liabilities				
Current:				
Trade payables	6,569	6,569	8,894	8,894
Derivative financial liabilities	195	195	194	194
Other payables	66,840	66,840	69,781	69,781
Borrowings	21,572	21,572	19,930	19,930
	95,176	95,176	98,799	98,799
Non-current:				
Other payables	39,604	39,660	10,952	10,840
Borrowings	8,342	8,342	8,201	8,201
	47,946	48,002	19,153	19,041
	143,122	143,178	117,952	117,840

¹ Reclassified due to change of accounting policy (details in Note 42).

As current financial assets and liabilities' maturity is short-term, their fair value is approximation of carrying amount.

There are no significant changes on business and economic environment that influence the fair value of financial assets and liabilities for the year ended December 31, 2018.

5.2 Fair Value Hierarchy and Measurement Method

Assets measured at fair value or for which the fair value is disclosed are categorized within the fair value hierarchy, and the defined levels are as follows:

- Level 1: Quoted prices (unadjusted) in active markets for identical assets or liabilities.
- Level 2: Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly (that is, as prices) or indirectly (that is, derived from prices).
- Level 3: Inputs for the asset or liability that are not based on observable market data (that is, unobservable inputs).

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Fair value hierarchy classifications of the financial assets and financial liabilities that are measured at fair value or its fair value is disclosed as at December 31, 2018 and 2017, are as follows:

(in millions of Korean won)

	December 31, 2018			
	Level 1	Level 2	Level 3	Total
Financial asset/liabilities that are measured at fair value				
Financial assets at fair value through profit or loss	133,627	-	26,334	159,961
Equity instruments at fair value through other comprehensive income	68,981	-	2,931	71,912
Debt instruments at fair value through other comprehensive income	10,292	-	-	10,292
Derivative financial (liabilities)	-	195	-	195
Non-current other receivables	-	14,711	-	14,711
Non-current other payables	-	39,660	-	39,660
Borrowings	-	-	8,342	8,342
Financial asset/liabilities that are not measured at fair value: N/A				

(in millions of Korean won)

	December 31, 2017			
	Level 1	Level 2	Level 3	Total
Financial asset/liabilities that are measured at fair value				
Financial assets at fair value through profit or loss	51,799	-	-	51,799
Derivative financial instruments (assets)	-	666	-	666
Available-for-sale financial assets	233,238	-	5,791	239,029
Derivative financial instruments (liabilities)	-	194	-	194
Non-current other receivables	-	9,083	-	9,083
Non-current other payables	-	10,840	-	10,840
Borrowings	-	-	8,201	8,201
Financial asset/liabilities that are not measured at fair value: N/A				

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The fair value of financial instruments traded in active markets is based on quoted market prices at the end of the reporting period. A market is regarded as active if quoted prices are readily and regularly available from an exchange, dealer, broker, an entity in the same industry, pricing service, or regulatory agency, and those prices represent actual and regularly occurring market transactions on an arm's length basis. The quoted market price used for financial assets held by the Group is the current bid price. These instruments are included in Level 1.

The fair value of financial instruments that are not traded in an active market is determined by using valuation techniques. The Group uses various valuation techniques and makes judgments based on current market conditions. These valuation techniques maximize the use of observable market data where it is available and rely as little as possible on entity specific estimates. If all significant inputs required to measure the fair value of an instrument are observable, the instrument is included in Level 2. The fair value of derivatives financial instruments categorized as Level 2 are measured at present value discounted at the forward exchange rate at the end of reporting period.

Non-current other receivables

Carrying amount and fair value of non-current other receivables as at December 31, 2018 and 2017, are as follows:

	December 31, 2018		December 31, 2017	
	Carrying amount	Fair value	Carrying amount	Fair value
Long-term loans	16	16	9	9
Deposits	14,650	14,695	9,039	9,074
	<u>14,666</u>	<u>14,711</u>	<u>9,048</u>	<u>9,083</u>

Fair value of non-current other receivables is calculated based on a nominal value of expected future cash inflows discounted using a discount rate reflecting credit risk.

	December 31, 2018	December 31, 2017
Discount rate	3.85%	3.64%

Non-current other payables

Carrying amount and fair value of non-current other payables as at December 31, 2018 and 2017, are as follows:

	December 31, 2018		December 31, 2017	
	Carrying amount	Fair value	Carrying amount	Fair value
Long-term non-trade payables	26,777	26,777	-	-
Long-term deposits received	12,827	12,883	10,952	10,840
	<u>39,604</u>	<u>39,660</u>	<u>10,952</u>	<u>10,840</u>

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Fair value of non-current other payables is calculated based on a nominal value of expected future cash outflows discounted using rates of return on non-guaranteed bonds having similar credit ratings as the Group.

	<u>December 31, 2018</u>	<u>December 31, 2017</u>
Discount rate	2.35%	2.79%

If one or more of the significant inputs is not based on observable market data, the instrument is included in Level 3.

Valuation techniques and inputs used in Level 3 fair value measurements are as follows:

(in millions of Korean won)	2018				
	Fair value	Level	Valuation techniques	Inputs	Range of inputs
Financial assets at fair value through profit or loss	26,334	3	Income approach Market approach	Perpetual growth rate Discount rate	0% 14.20~24.05%
Financial assets at fair value through other comprehensive income	2,931	3	Income approach	Perpetual growth rate Discount rate	1% 10.80%

Borrowings categorized as Level 3 are measured at present value by using a discount rate reflecting credit risk and others.

6. Segment Information

Management has determined the operating segments based on the reports reviewed by the board of directors that are used to make strategic decisions.

The segments of the Group are strategic business divisions providing different products and services. They are reported separately because each business division requires different technologies and marketing strategies. The main products and services of each business division for the year ended December 31, 2018, are as follows:

	<u>Products and services</u>
Noonnoppi business	Noonnoppi home-school material, Premium home-school material (CHAIHONG, Soluny), HRD service business
Media business	Publication, Book center, Media business and others
Other	Rental service, Textbook business, Resort business, Managing and supporting department and others
Subsidiaries	Domestic/Overseas subsidiaries

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The segment information for sales and operating income for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018		2017	
	Segment sales	Operating income	Segment sales	Operating income
Noonnoppi business	639,261	34,147	692,717	48,669
Media business	35,696	(4,292)	40,946	(767)
Other	30,536	(3,639)	23,107	(806)
Subsidiaries	66,640	(2,187)	67,385	(3,130)
	<u>772,133</u>	<u>24,029</u>	<u>824,155</u>	<u>43,966</u>
Inter-segment transactions	(8,991)	1,578	(11,952)	1,519
	<u>763,142</u>	<u>25,607</u>	<u>812,203</u>	<u>45,485</u>

Segment information of share of profit from associates, depreciation, amortization and fluctuation of non-current assets for the years ended December 31, 2018 and 2017, follows:

<i>(in millions of Korean won)</i>	2018			2017		
	Profit (loss) from associates	Depreciation /Amortization	Increase (decrease) of non-current assets¹	Profit (loss) from associates	Depreciation/Amortization	Increase (decrease) of non-current assets¹
Noonnoppi business	-	12,876	8,799	-	18,476	(1,817)
Media business	-	2,087	1,646	-	2,781	13,281
Other	4,308	15,357	(19,821)	595	7,413	7,400
Subsidiaries	-	1,515	(2,098)	-	5,302	(4,894)
	<u>4,308</u>	<u>31,835</u>	<u>(11,474)</u>	<u>595</u>	<u>33,972</u>	<u>13,970</u>
Inter-segment transactions	-	436	(29,194)	-	19	(302)
	<u>4,308</u>	<u>32,271</u>	<u>(40,668)</u>	<u>595</u>	<u>33,991</u>	<u>13,668</u>

¹ Financial instrument, deferred tax assets and investments in associates are excluded.

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Details of segment information of assets, liabilities and investments in associates for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018			2017		
	Assets	Investments in associates	Liabilities	Assets	Investments in associates	Liabilities
Noonnoppi business	100,917	-	70,454	101,244	-	75,558
Media business	33,302	-	12,239	33,391	-	13,239
Other	663,235	34,124	72,157	720,892	17,071	57,810
Subsidiaries	72,522	-	54,367	98,896	-	51,711
	<u>869,976</u>	<u>34,124</u>	<u>209,217</u>	<u>954,423</u>	<u>17,071</u>	<u>198,318</u>
Inter-segment transactions	(39,648)	-	4,285	(97,326)	-	(18,153)
	<u>830,328</u>	<u>34,124</u>	<u>213,502</u>	<u>857,097</u>	<u>17,071</u>	<u>180,165</u>

Sales by geographic areas for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018	2017
Domestic	737,424	787,985
Overseas	25,718	24,218
	<u>763,142</u>	<u>812,203</u>

There is no external customer attributing to more than 10% of total sales for the years ended December 31, 2018 and 2017.

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7. Financial Instruments by Category

Categorizations of financial instruments as at December 31, 2018 and 2017, are as follows:

(in millions of Korean won)

	December 31, 2018			
	Financial assets at fair value through profit or loss	Loans and receivables	Available-for-sale financial assets	Total
Financial assets				
Current				
Cash and cash equivalents	-	58,508	-	58,508
Financial deposits	-	23,128	-	23,128
Trade receivables	-	15,998	-	15,998
Other receivables	-	34,770	-	34,770
Financial assets at fair value through profit or loss	131,226	-	-	131,226
	<u>131,226</u>	<u>132,404</u>	<u>-</u>	<u>263,630</u>
Non-current				
Other receivables	-	14,666	-	14,666
Financial assets at fair value through profit or loss	28,735	-	-	28,735
Financial assets at fair value through other comprehensive income	-	-	82,204	82,204
	<u>28,735</u>	<u>14,666</u>	<u>82,204</u>	<u>125,605</u>
	<u>159,961</u>	<u>147,070</u>	<u>82,204</u>	<u>389,235</u>

(in millions of Korean won)

	December 31, 2018		
	Financial liabilities at fair value through profit or loss	Financial liabilities carried at amortized cost	Total
Financial liabilities			
Current			
Trade payables	-	6,569	6,569
Other payables	-	66,840	66,840
Derivative financial instruments	195	-	195
Borrowings	-	21,572	21,572
	<u>195</u>	<u>94,981</u>	<u>95,176</u>
Non-current			
Other payables	-	39,604	39,604
Borrowings	-	8,342	8,342
	<u>-</u>	<u>47,946</u>	<u>47,946</u>
	<u>195</u>	<u>142,927</u>	<u>143,122</u>

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	December 31, 2017			
	Financial assets at fair value through profit or loss	Loans and receivables	Available-for-sale financial assets	Total
Financial assets				
Current				
Cash and cash equivalents	-	60,252	-	60,252
Financial deposits	-	20,688	-	20,688
Trade receivables	-	21,355	-	21,355
Other receivables	-	43,396	-	43,396
Financial assets at fair value through profit or loss	51,799	-	-	51,799
Derivative financial instruments	666	-	-	666
Available-for-sale financial assets	-	-	103,810	103,810
	<u>52,465</u>	<u>145,691</u>	<u>103,810</u>	<u>301,966</u>
Non-current				
Other receivables	-	9,048	-	9,048
Available-for-sale financial assets	-	-	161,564	161,564
	<u>-</u>	<u>9,048</u>	<u>161,564</u>	<u>170,612</u>
	<u>52,465</u>	<u>154,739</u>	<u>265,374</u>	<u>472,578</u>

(in millions of Korean won)

	December 31, 2017		
	Financial liabilities at fair value through profit or loss	Financial liabilities carried at amortized cost	Total
Financial liabilities			
Current			
Trade payables	-	8,894	8,894
Other payables	-	69,781	69,781
Derivative financial instruments	194	-	194
Borrowings	-	19,930	19,930
	<u>194</u>	<u>98,605</u>	<u>98,799</u>
Non-current			
Other payables	-	10,952	10,952
Borrowings	-	8,201	8,201
	<u>-</u>	<u>19,153</u>	<u>19,153</u>
	<u>194</u>	<u>117,758</u>	<u>117,952</u>

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Gain and loss of financial instruments by category for the years ended December 31, 2018 and 2017, are as follows:

	2018					Total
	Financial assets at fair value through profit or loss	Financial assets at amortized costs	Financial assets at fair value through other comprehensive income	Financial liabilities at fair value through profit or loss	Financial liabilities carried at amortized cost	
<i>(in millions of Korean won)</i>						
Dividend income	661	-	2,634	-	-	3,295
Gain on foreign currency translation	-	721	-	-	17	738
Gain on foreign currency transactions	-	107	-	-	-	107
Interest income (expenses)	106	2,919	-	-	(1,184)	1,841
Bad debt expenses	-	(1,539)	-	-	-	(1,539)
Loss on valuation of financial assets ¹	(768)	-	(12,015)	-	-	(12,783)
Gain on disposal of financial assets ²	1,281	-	978	-	-	2,259
Loss on valuation of derivatives	(93)	-	-	(196)	-	(289)
Loss on transaction of derivatives	(202)	-	-	-	-	(202)

¹ The amounts recognized as other comprehensive income (post-tax) are included.

² The reclassified amounts from other comprehensive income (post-tax) into the statement of profit or loss include ₩ 978 million.

	2017					Total
	Financial assets at fair value through profit or loss	Loans and receivables	Available-for-sale financial assets	Financial liabilities at fair value through profit or loss	Financial liabilities carried at amortized cost	
<i>(in millions of Korean won)</i>						
Dividend income	-	-	3,876	-	-	3,876
Loss on foreign currency translation	-	(1,879)	-	-	(10)	(1,889)
Loss on foreign currency transactions	-	(278)	(11)	-	(1)	(290)
Interest income (expenses)	-	2,007	252	-	(614)	1,645
Bad debt expenses	-	(944)	-	-	-	(944)
Gain (loss) on valuation of financial assets ¹	(2,228)	-	1,527	-	-	(701)
Gain on disposal of financial assets	1,075	-	14,879	-	-	15,954
Gain (loss) on valuation of derivatives	666	-	-	(194)	-	472
Gain (loss) on transaction of derivatives	1,179	-	-	(566)	-	613
Impairment loss on assets	-	-	(3,137)	-	-	(3,137)

¹ The amounts recognized as other comprehensive income (post-tax) are included.

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8. Cash and Cash Equivalents, and Financial Deposits

Details of cash and cash equivalents as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	December 31, 2018	December 31, 2017
Ordinary deposits	20,631	25,593
Short-term deposits	37,877	34,659
	<u>58,508</u>	<u>60,252</u>

The financial deposits restricted in use as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	December 31, 2018	December 31, 2017	Reason
Ordinary deposits	233	-	Provisional seizure against claim
Financial deposits	3,664	1,315	Pledge of deposits received and others
	<u>3,897</u>	<u>1,315</u>	

9. Financial Assets

As explained in Note 2, the Group has applied Korean IFRS 1109 Financial Instruments from January 1, 2018. See Note 42 for the impact of the changes in accounting policies on the classification of financial assets and financial statements.

9.1 Financial assets at fair value through profit or loss

Financial assets mandatorily measured at fair value through profit or loss include the following classes of financial assets:

<i>(in millions of Korean won)</i>	December 31, 2018	December 31, 2017¹
Current		
Beneficiary certificate	131,226	155,609
	<u>131,226</u>	<u>155,609</u>
Non-current		
Beneficiary certificate	26,334	34,019
Equity instruments	2,401	11,882
Debt instruments	-	10,050
	<u>28,735</u>	<u>55,951</u>
	<u>159,961</u>	<u>211,560</u>

¹ These instruments were classified as financial assets at fair value through profit or loss and available-for-sale financial assets as at December 31, 2017.

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Certain financial assets at fair value through profit or loss are presented within operating activities as part of changes in working capital in the statements of cash flows.

Amounts recognized in profit or loss

<i>(in millions of Korean won)</i>	2018	2017
Gain on financial assets at fair value through profit or loss	513	14,999

9.2 Financial Assets at Fair Value through Other Comprehensive Income

Equity investments at fair value through other comprehensive income

Equity investments at fair value through other comprehensive income comprise the following individual investments:

<i>(in millions of Korean won)</i>	December 31, 2018	December 31, 2017¹
Non-current		
Listed equity instruments ¹	68,981	89,743
Non-listed equity instruments	2,931	5,791
	<u>71,912</u>	<u>95,534</u>

¹ In the prior financial year, the Group had designated the equity investments as available-for-sale.

Upon disposal of these equity investments, any balance within the accumulated other comprehensive income for these equity investments is reclassified to retained earnings and is not reclassified to profit or loss.

During 2018, the Group has sold certain equity instruments. Related gain of ₩ 2,263million which is already included in other comprehensive income has been transferred to retained earnings after the disposal.

During 2018, the Group additionally acquired shares and obtained controls of certain equity instruments. Related gain of ₩ 1,285 million which is already included in other comprehensive income has been transferred to retained earnings after the disposal.

Details of marketable equity securities as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	December 31, 2018		
	Acquisition cost	Fair value	Book amount
Shinhan Financial Group Co., Ltd.	22,180	68,981	68,981
	<u>22,180</u>	<u>68,981</u>	<u>68,981</u>
December 31, 2017			
<i>(in millions of Korean won)</i>	Acquisition cost	Fair value	Book amount
Shinhan Financial Group Co., Ltd.	23,131	89,743	89,743

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	23,131	89,743	89,743
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Debt investments at fair value through other comprehensive income

Debt investments at fair value through other comprehensive income comprise the following investments in bonds having solely payments of principal and interest:

<i>(in millions of Korean won)</i>	<u>December 31, 2018</u>	<u>December 31, 2017¹</u>
Non-current		
Corporate bonds	10,292	10,079

¹ In the prior financial year, the Group had designated the equity investments as available-for-sale.

Upon disposal of these debt investments, any balance within the accumulated other comprehensive income for these debt investments is reclassified to profit or loss.

9.3 Derivative Financial Instruments

Details of derivative financial instruments as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	<u>December 31, 2018</u>		<u>December 31, 2017</u>	
	<u>Assets</u>	<u>Liabilities</u>	<u>Assets</u>	<u>Liabilities</u>
Currency forward exchange contracts and others	-	195	666	194

9.4 Trade Receivables and Other Receivables

Details of trade receivables and other receivables as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	<u>December 31, 2018</u>		
	<u>Original amount</u>	<u>Less : allowance for doubtful accounts</u>	<u>Carrying amount</u>
Current			
Trade receivables ¹	21,665	(5,667)	15,998
Non-trade receivables	6,888	(5,405)	1,483
Accrued income	124	-	124
Loans	26	-	26
Deposits	33,137	-	33,137
	61,840	(11,072)	50,768
Non-current			
Loans	16	-	16
Deposits	14,650	-	14,650
	14,666	-	14,666

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	76,506	(11,072)	65,434
	December 31, 2017		
	Original amount	Less : allowance for doubtful accounts	Carrying amount
<i>(in millions of Korean won)</i>			
Current			
Trade receivables ¹	28,470	(7,116)	21,354
Non-trade receivables	8,284	(5,250)	3,034
Accrued income	204	-	204
Loans	27	-	27
Deposits	40,131	-	40,131
	77,116	(12,366)	64,750
Non-current			
Loans	9	-	9
Deposits	9,039	-	9,039
	9,048	-	9,048
	86,164	(12,366)	73,798

¹The Group's certain trade receivables are provided with collateral and others from counterparties.

10. Contract Assets and Liabilities

As explained in Note 2, the Group has applied Korean IFRS 1115 *Revenue from Contracts with Customers* from January 1, 2018. See Note 42 for the impact on financial statements of the changes in accounting policies.

The Group has recognized the following assets and liabilities related to contracts with customers:

<i>(in millions of Korean won)</i>	December 31, 2018	December 31, 2017¹
Contract assets		
License	137	74
Right to return	557	606
Supplement	5,029	6,396
	5,723	7,076
Contract liabilities		
License	395	310
Rental	170	74
Right to return	1,025	1,088
Supplement	165	165
Customer loyalty program	1,755	1,637

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Significant changes in contract assets and liabilities

Contract assets decreased due to changes in services provided prior to the agreed payment period for the fixed-price contract, and in estimation regarding right of return when the customer exercises the right for the return available sale. Contract liabilities increased due to changes in services provided after the agreed payment period for the fixed-price contract, and in estimation regarding liability to refund when the customer exercises the right for the return available sales.

Revenue recognized in relation to contract liabilities

The following table shows how much of the revenue recognized in the current reporting period relates to carried-forward contract liabilities and how much relates to performance obligations that were satisfied in a prior year.

<i>(in millions of Korean won)</i>	December 31, 2018
Revenue recognized that was included in the contract liability balance at the beginning of the year	
License	245
Rental	113
Sales with a right of return	43
Revenue recognized from performance obligations satisfied in previous periods	
Consideration from sales with a right of return, not previously recognized due to the constraint	43

11. Inventories

Details of inventories as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	December 31, 2018	December 31, 2017
Merchandise	3,523	4,371
Finished goods	8,816	10,114
Stored goods	2,193	1,804
Raw materials	790	498
	15,322	16,787
Allowance for losses on valuation of inventories	(517)	(710)
	<u>14,805</u>	<u>16,077</u>

The cost of inventories recognized as expense and included in 'cost of sales' amounts to ₩ 37,128 million (2017: ₩ 45,155 million). Reversal of losses on valuation of inventories amounts to ₩193 million (2017: nil) and there is no allowance for losses on valuation of inventories (2017: ₩94 million).

12. Other Assets

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Details of other assets as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	<u>December 31, 2018</u>	<u>December 31, 2017</u>
Current		
Advances	643	770
Prepaid expenses	3,609	3,632
	<u>4,252</u>	<u>4,402</u>

13. Investments in Associates

Details of investments in associates as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	Country	Percentage of ownership (%)		December 31, 2018	December 31, 2017
		December 31, 2018	December 31, 2017		
DKI Growing Star 1 Investment partnership	Korea	24.00	24.00	3,396	1,518
With the Green Co., Ltd.	Korea	46.99	45.70	6,023	4,113
HR DAVINCHI Private Securities Investment Trust 2 ²	Korea	-	48.71	-	5,352
IBK A One Convertible Professional Investment Type Private Security Investment Trust 1	Korea	28.35	28.35	3,631	3,073
Rico-Synergy Collaboration Multi Mezzanine Specialized Investment Model Private Equity Investment Trust No. 3	Korea	29.98	30.00	3,174	3,015
KOREA INVESTMENT PrivateDebt Professional Investment Type Private Security Investment Trust ¹	Korea	28.85	-	3,171	-
HEUNGKUK KOSDAQ Venture Professional Investment Type Private Security Investment Trust ¹	Korea	32.70	-	5,118	-
J&J Partner Alpha Private Security ¹³	Korea	31.28	-	4,212	-
LIME Globali Trade Finance 5 No.1 ³	Korea	31.39	-	5,399	-
				<u>34,124</u>	<u>17,071</u>

¹ The above entities are included in associates as the Group newly acquired these entities during 2018.

² The Group disposed of shares during 2018.

³ The above entities are included in associates as the Group additionally acquired shares during 2018.

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Changes in investments in associates for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018	2017
Beginning balance - Korean IFRS 1039	17,071	6,595
Effects of changes in accounting policy		
Shares of other comprehensive income	(369)	-
Shares of retained earnings	369	-
Restated beginning balance of retained earnings	17,071	-
Acquisition	19,801	11,000
Share of profit (loss)	4,308	595
Share of other comprehensive income (loss)	48	93
Disposal and others ¹	(5,122)	(1,212)
Dividend	(1,970)	-
Shares of retained earnings	(12)	-
Ending balance	34,124	17,071

¹ Disposed and reduced in capital during 2018.

Summarized financial information of associates for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018						Total comprehensive income (loss)
	Current assets	Non-current assets	Current liabilities	Non-current liabilities	Sales	Profit (loss) for the year	
DKI Growing Star 1							
Investment partnership	344	13,930	124	-	-	11,868	12,069
With the Green Co., Ltd.	633	12,202	11	8	144	(184)	(184)
HR DAVINCHI Private Securities Investment Trust							
2	-	-	-	-	-	254	254
IBK A One Convertible Professional Investment Type Private Security Investment Trust 1	2,963	9,844	-	-	-	1,967	1,967
Rico-Synergy Collaboration Multi Mezzanine Specialized Investment Model Private Equity Investment Trust No. 3	337	10,399	161	-	-	529	529
KOREA INVESTMENT PrivateDebt Professional Investment Type Private Security Investment Trust	63	11,036	106	-	-	638	638
HEUNGKUK KOSDAQ Venture Professional Investment Type Private	2,735	12,914	-	-	-	(252)	(252)

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(in millions of Korean won)	2018						
	Current assets	Non-current assets	Current liabilities	Non-current liabilities	Sales	Profit (loss) for the year	Total comprehensive income (loss)
Security Investment Trust							
J&J Partner Alpha Private							
Security 1	641	27,641	14,816	-	-	(5,201)	(5,201)
LIME Global Trade Finance							
5 No.1	60	17,147	-	-	-	107	107
(in millions of Korean won)	2017						
	Current assets	Non-current assets	Current liabilities	Non-current liabilities	Sales	Profit (loss) for the year	Total comprehensive income (loss)
DKI Growing Star 1							
Investment partnership	355	6,141	171	-	-	1,601	1,421
With the Green Co., Ltd.	272	8,737	9	-	91	(204)	(204)
HR DAVINCHI Private							
Securities Investment							
Trust 2	409	10,576	-	-	-	534	746
IBK A One Convertible							
Professional Investment							
Type Private Security							
Investment Trust 1	7,319	3,522	-	-	-	31	258
Rico-Synergy							
Collaboration Multi							
Mezzanine Specialized							
Investment Model							
Private Equity							
Investment Trust No. 3	1,836	8,219	3	-	-	156	50

Details of adjusting its interest in associates as at December 31, 2018 and 2017, are as follows:

(in millions of Korean won)	December 31, 2018						
	Net assets	Group's share in %	Group's share in KRW	Goodwill	Unrealized gains or losses	Unrecognized losses	Book amount at the end of year
DKI Growing Star 1							
Investment partnership	14,150	24.00	3,396	-	-	-	3,396
With the Green Co., Ltd.	12,816	46.99	6,023	-	-	-	6,023
IBK A One Convertible							
Professional Investment							
Type Private Security							
Investment Trust 1	12,807	28.35	3,631	-	-	-	3,631
Rico-Synergy Collaboration							
Multi Mezzanine							
Specialized Investment	10,575	29.98	3,174	-	-	-	3,174

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December 31, 2018							
<i>(in millions of Korean won)</i>	Net assets	Group's share in %	Group's share in KRW	Goodwill	Unrealized gains or losses	Unrecognized losses	Book amount at the end of year
Model Private Equity Investment Trust No. 3 KOREA INVESTMENT PrivateDebt Professional Investment Type Private Security Investment Trust HEUNGKUK KOSDAQ Venture Professional Investment Type Private Security Investment Trust J&J Partner Alpha Private Security 1 LIME Global Trade Finance 5 No.1	10,993	28.85	3,171	-	-	-	3,171
	15,649	32.70	5,118	-	-	-	5,118
	13,466	31.28	4,212	-	-	-	4,212
	17,207	31.39	5,399	-	-	-	5,399
	107,663		34,124	-	-	-	34,124
December 31, 2017							
<i>(in millions of Korean won)</i>	Net assets	Group's share in %	Group's share in KRW	Goodwill	Unrealized gains or losses	Unrecognized losses	Book amount at the end of year
DKI Growing Star 1 Investment partnership With the Green Co., Ltd.	6,325	24.00	1,518	-	-	-	1,518
	9,000	45.70	4,113	-	-	-	4,113
HR DAVINCHI Private Securities Investment Trust 2	10,985	48.71	5,352	-	-	-	5,352
IBK A One Convertible Professional Investment Type Private Security Investment Trust 1	10,841	28.35	3,073	-	-	-	3,073
Rico-Synergy Collaboration Multi Mezzanine Specialized Investment Model Private Equity Investment Trust No. 3	10,052	30.00	3,015	-	-	-	3,015
	47,203		17,071	-	-	-	17,071

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14. Property, Plant and Equipment

Details of property, plant and equipment as at December 31, 2018 and 2017, are as follows:

December 31, 2018										
(in millions of Korean won)									Standing	Construction
	Land	Buildings	Structures	Machinery	Vehicles	Tools	Supplies	Equipment	timber	-in-progress
Acquisition cost	47,823	131,454	3,946	468	2,138	67	126,467	2,008	914	1,918
Accumulated depreciation	-	(30,289)	(1,390)	(468)	(1,757)	(57)	(90,633)	(1,656)	-	-
Net book amount	47,823	101,165	2,556	-	381	10	35,834	352	914	1,918

December 31, 2017										
(in millions of Korean won)									Standing	Construction
	Land	Buildings	Structures	Machinery	Vehicles	Tools	Supplies	Equipment	timber	-in-progress
Acquisition cost	48,364	137,547	3,903	468	2,335	62	110,212	2,520	929	774
Accumulated depreciation	-	(29,612)	(1,316)	(468)	(1,854)	(49)	(81,006)	(2,062)	-	-
Net book amount	48,364	107,935	2,587	-	481	13	29,206	458	929	774

Changes in property, plant and equipment for the years ended December 31, 2018 and 2017, are as follows:

2018										
(in millions of Korean won)								Standing	Construction	Total
	Land	Buildings	Structures	Vehicles	Tools	Supplies	Equipment	timber	-in-progress	
At January 1	48,364	107,935	2,587	481	13	29,206	458	929	774	190,747
Acquisitions	-	502	88	111	4	21,515	16	-	1,923	24,159
Increase due to business acquisition	-	-	-	-	-	207	98	-	-	305
Disposal/disuse	-	-	-	(14)	-	(196)	(98)	(15)	-	(323)
Impairment loss	-	-	-	-	-	(1)	-	-	-	(1)
Depreciation	-	(3,100)	(119)	(202)	(7)	(14,920)	(121)	-	-	(18,469)
Reclassification to investment properties	(569)	(5,097)	-	-	-	-	-	-	-	(5,666)
Transfer-in(out)	-	769	-	-	-	10	-	-	(779)	-
Exchange differences	28	156	-	5	-	13	(1)	-	-	201
At December 31	47,823	101,165	2,556	381	10	35,834	352	914	1,918	190,953

2017										
(in millions of Korean won)								Standing	Construction	Total
	Land	Buildings	Structures	Vehicles	Tools	Supplies	Equipment	timber	-in-progress	
At January 1	53,794	80,582	2,325	430	22	26,631	372	528	26,179	190,863
Acquisitions	10	4,558	360	265	-	14,410	281	216	22,250	42,350
Increase due to business acquisition	-	-	-	-	-	1	-	-	-	1

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Disposal/disuse	(1,614)	-	-	(4)	-	(292)	(45)	-	-	(1,955)
Depreciation	-	(3,290)	(98)	(194)	(7)	(13,117)	(150)	-	-	(16,856)
Reclassification to investment properties	(3,550)	(18,175)	-	-	-	-	-	-	-	(21,725)
Transfer-in(out)	3	45,861	-	-	-	1,664	-	185	(47,655)	58
Exchange differences	(279)	(1,601)	-	(16)	(2)	(91)	-	-	-	(1,989)
At December 31	48,364	107,935	2,587	481	13	29,206	458	929	774	190,747

Depreciation for the years ended December 31, 2018 and 2017, is charged as follows:

<i>(in millions of Korean won)</i>	2018	2017
Cost of sales	15,639	13,363
Selling and administrative expenses	2,830	3,493
	18,469	16,856

Details of property, plant and equipment provided as collateral as at December 31, 2018, are as follows:

<i>(in millions of Korean won)</i>	December 31, 2018				
	Book amount	Secured amount	Related line item	Related amount	Secured party
Land and buildings	6,022	8,945	Borrowings (Notes 18 and 29)	8,521	Woori Bank

As at December 31, 2018, certain property, plant and equipment are provided as leasehold rights and pledged as collateral (Note 29).

15. Investment Properties

Details of investment properties as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	December 31, 2018		
	Acquisition cost	Accumulated depreciation	Book amount
Land	26,553	-	26,553
Buildings	140,810	(43,770)	97,040
	167,363	(43,770)	123,593
<i>(in millions of Korean won)</i>	December 31, 2017		
	Acquisition cost	Accumulated depreciation	Book amount
Land	25,862	-	25,862
Buildings	132,498	(38,059)	94,439

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158,360	(38,059)	120,301
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Changes in investment properties for the years ended December 31, 2018 and 2017, are as follows:

(in millions of Korean won)	2018		
	Land	Buildings	Total
At January 1	25,862	94,439	120,301
Depreciation	-	(3,190)	(3,190)
Transfer	569	5,097	5,666
Exchange differences	122	694	816
At December 31	26,553	97,040	123,593

(in millions of Korean won)	2017		
	Land	Buildings	Total
At January 1	22,475	79,715	102,190
Depreciation	-	(2,511)	(2,511)
Transfer	3,550	18,175	21,725
Exchange differences	(163)	(940)	(1,103)
At December 31	25,862	94,439	120,301

Fair value of investment properties as at December 31, 2018, is ₩259,610 million (2017: ₩236,716 million).

Rent income from investment properties during the year ended December 31, 2018, is ₩14,538 million (2017: ₩13,227 million), and operating expenses (including repairs and maintenance) directly related to those investment properties is ₩9,864 million (2017: ₩9,324 million).

Details of investment properties provided as collateral as at December 31, 2018, are as follows:

(in millions of Korean won)	December 31, 2018				
	Book amount	Secured amount	Related line item	Related amount	Secured party
			Borrowings		
Land and buildings	17,555	8,945	(Notes 18 and 29)	8,521	Woori Bank

As at December 31, 2018, certain property, plant and equipment are provided as leasehold rights and pledged as collateral (Note 29).

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16. Intangible Assets

Details of intangible assets as at December 31, 2018 and 2017, are as follows:

	December 31, 2018								
(in millions of Korean won)		Membership	Development	Industrial		Other	Right to use		
	Goodwill	rights	costs	rights	Software	intangible	donated	Technology ¹	Total
						assets	assets		
Acquisition cost	18,181	8,924	160,684	2,642	44,682	20,475	158,011	13,842	427,441
Accumulated amortization	-	-	(110,698)	(2,430)	(37,147)	(18,404)	(152,764)	(412)	(321,855)
Accumulated impairments loss	(346)	-	(33,270)	(2)	(376)	(48)	-	-	(34,042)
Changes in accounting policy	-	-	-	-	-	-	(5,247)	-	(5,247)
Government grants	-	-	-	-	-	(264)	-	-	(264)
Net book amounts	17,835	8,924	16,716	210	7,159	1,759	-	13,430	66,033

¹ Technology was recognized due to business combination during 2018.

(in millions of Korean won)	December 31, 2017							
	Membership		Development	Industrial	Other		Right to use	Total
	Goodwill	rights	costs	property rights	Software	intangible assets	donated assets	
Acquisition cost	1,180	8,924	151,693	2,606	40,936	19,404	158,011	382,754
Accumulated amortization	-	-	(106,696)	(2,225)	(34,083)	(16,984)	(152,764)	(312,752)
Accumulated impairments loss	(346)	-	(32,749)	(2)	(376)	(48)	-	(33,521)
Government grants	-	-	-	-	-	(559)	-	(559)
Net book amounts	834	8,924	12,248	379	6,477	1,813	5,247	35,922

Changes in intangible assets for the years ended December 31, 2018 and 2017, are as follows:

	2018							
		Membership	Development	Industrial		Other	Right to use	
(in millions of Korean won)	Goodwill	rights	costs	property	Software	intangible	donated	Technology
				rights		assets	assets	Total
At January 1	834	8,924	12,248	379	6,477	1,813	5,247	- 35,922
Changes in accounting policy	-	-	-	-	-	-	(5,247)	- (5,247)
Acquisitions	-	-	-	23	4,015	1,017	-	- 5,055
Acquisitions due to business combination	17,001	-	-	5	4	5	-	13,842 30,857
Acquisitions by internal development	-	-	10,728	-	-	-	-	- 10,728
Disposal	-	-	-	-	(90)	-	-	- (90)
Amortization (including government grants)	-	-	(5,677)	(197)	(3,247)	(1,079)	-	(412) (10,612)
Impairments ¹	-	-	(521)	-	-	-	-	- (521)

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Transfer-in(out)	-	-	(62)	-	-	-	-	-	(62)
Exchange differences	-	-	-	-	-	3	-	-	3
At December 31	17,835	8,924	16,716	210	7,159	1,759	-	13,430	66,033

(in millions of Korean won)	2017							
	Membership		Development	Industrial	Other		Right to use	Total
	Goodwill	rights	costs	property rights	Software	intangible assets	donated assets	
At January 1	592	8,924	14,435	498	7,000	2,069	6,731	40,249
Acquisitions	24	-	10	83	3,128	1,080	2,041	6,366
Increase due to business acquisition	628	-	-	-	8	-	-	636
Acquisitions by internal development	-	-	7,874	-	-	-	-	7,874
Amortization (including government grants)	-	-	(6,089)	(202)	(3,658)	(1,149)	(3,525)	(14,623)
Impairments ¹	(347)	-	(3,982)	-	(1)	-	-	(4,330)
Others	(58)	-	-	-	-	-	-	(58)
Government grants	-	-	-	-	-	(179)	-	(179)
Exchange differences	(5)	-	-	-	-	(8)	-	(13)
At December 31	834	8,924	12,248	379	6,477	1,813	5,247	35,922

¹ The Group recognized impairment loss on development costs and others amounting to ₩521 million (2017: ₩4,330 million) as the book amount exceeded its recoverable value.

Amortization for the years ended December 31, 2018 and 2017, is charged as follows:

(in millions of Korean won)	2018	2017
Cost of sales	7,405	11,397
Selling and administrative expenses	3,207	3,226
	10,612	14,623

Development Costs

Development costs considered as low business value are recognized as impairment loss of ₩ 521 million and included in 'other expense' within statements of profit or loss. Also, that development costs are belong to the media business and other business of operating segments.

a. Impairment loss of development cost as at December 31, 2018, is as follows:

(in millions of Korean won)

Related account	Separate asset	Carrying amount	Impairment loss	Recoverable amount valuation method
Development costs	Development costs for complete series such as MILAN (4 cases) ¹	442	442	Value in use

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Development costs of 5th and 6th grade English workbook for 2009 amendment. ²	24	24	Value in use
Exclusive contents for KidsJam Interactive (5 case) and two others. ³	55	55	Value in use
	<u>521</u>	<u>521</u>	

¹ As the result of an impairment test, the Group impaired the entire amount due to the low possibility of collectability of future cash flows from development assets or discontinued business.

² Related book amount is entirely impaired as economic benefits are estimated to be none due to expiration of curriculum.

³ Due to change of business environment, the Group considered it to have low business value and the recoverable amount being less than the book amount of development cost, according to the result of an impairment test, the Group impaired the entire amount.

b. Estimating recoverable amount

The Group estimated recoverable amount of development costs based on value-in-use calculation as the assets cannot be reliably measured at fair value.

The value-in-use calculations use cash flow projections covering a four-year period based on historical operating performance and financial budgets approved by management.

Discount rate used for value-in-use calculation is 3.93% and the rate is weight average cost of capital reflected specific risks relating to the asset.

c. Line items including impairment loss in the statement of profit or loss are other expense of ₩ 521 million (2017: ₩ 3,982 million).

d. List of major assets for development costs

Study material development costs out of the development costs consist of in-progress development costs of ₩ 1,775 million and completed development costs of ₩ 9,020 million, and the weighted average residual amortization period of development costs that is being amortized is 2.7 years.

Complete series of publication development costs consist of in-progress development costs of ₩ 11 million and completed development cost of ₩ 957 million, and the weighted average residual amortization period of development costs that is being amortized is 1.6 years.

Textbook development costs consist of in-progress development cost of ₩ 1,928 million and completed development costs of ₩ 1,441 million, and the weighted average residual amortization period of development costs that is being amortized is 3.1 years.

Development costs for other contents consist of in-progress development costs of ₩ 283 million and completed development costs of ₩ 1,885 million and the weighted average residual

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amortization period of development costs that is being amortized is 3.8 years.

e. Total research and development costs recognized as expenses for the year ended December 2018, are as follows:

<i>(in millions of Korean won)</i>	2018	2017
Cost of sales	1,142	566
Selling and administrative expenses	63	23
	<u>1,205</u>	<u>589</u>

Goodwill is allocated among the Group's cash-generating units (CGUs) according to operating segments. Details of goodwill by operating segments as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	December 31, 2018	December 31, 2017
CHAIHONG division	480	480
Daekyo Edupia Co., Ltd.	354	354
KnowRe Americas, Inc.	17,001	-
	<u>17,835</u>	<u>834</u>

The recoverable amounts of cash-generating units have been determined based on value-in-use calculations. These calculations use pre-tax cash flow projections based on financial budgets approved by management covering 4~14 years.

Management determined the estimated cash flow based on past performance and its expectations of market development. The discount rates used are pre-tax and reflect risks relating to the relevant operating segments. Discount rates used for value-in-use calculations of the CHAIHONG division and others is 3.93%. And, discount rates used for value-in-use calculations of goodwill from acquisition of KnowRe Americas, Inc. is 11.5%

17. Other Payables

Details of other payables as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	December 31, 2018	December 31, 2017
Current		
Non-trade payables	18,588	19,541
Accrued expenses	36,034	38,669
Short-term deposits received	-	447
Leasehold deposits received	12,218	11,124
	<u>66,840</u>	<u>69,781</u>
Non-current		
Long-term non-trade payables	26,777	-
Leasehold deposits received	12,827	10,952

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39,604	10,952
106,444	80,733

18. Borrowings

Details of borrowings as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>		Latest maturity date	Annual interest rate (%) at Dec 31, 2018	December 31, 2018	December 31, 2017
Current					
Daekyo Holdings Co., Ltd.	Borrowings from related party	2019-12-31	3.37	7,900	7,170
Industrial Bank of Korea	General loans	2019-02-28	1.00	350	-
Woori Bank ¹	Facility loans	2019-12-31	3.25	193	178
Shinhan Bank ²	Facility loans	2019-02-15	Libor 3M + 110BP	8,867	8,496
Shinhan Bank	Facility loans	2019-02-15	Libor 3M + 110BP	4,249	4,071
Hong Leong Bank	General loans	2018-03-01	2.69	-	1
Public Bank Berhad	General loans	2019-07-19	3.33	3	5
Maybank Islamic Berhad	General loans	2019-12-31	2.45	4	4
Hyundai Motors Finance	General loans	2019-12-31	3.97	3	3
Hitachi Capital Singapore Pte	General loans	2019-12-31	15.00	3	2
				21,572	19,930
Non-Current					
Woori Bank ¹	Facility loans	2021-08-01	3.25	8,328	8,179
Public Bank Berhad	General loans	2019-07-19	3.33	-	3
Maybank Islamic Berhad	General loans	2020-05-25	2.45	1	4
Hyundai Motors Finance	General loans	2021-09-30	3.97	6	9
Hitachi Capital Singapore Pte.	General loans	2021-02-28	15.00	7	6
				8,342	8,201
				29,914	28,131

¹ Certain property, plant and equipment and investment properties are pledged as collateral for these borrowings (Note 14, 15 and 29).

² Payment guarantees are provided from Daekyo Holdings Co., Ltd. for these borrowings (Note 29).

Changes in borrowings for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018	2017
At January 1	28,131	28,234
Increase due to business combination	804	-
Addition	6,476	6,302
Repayment	(6,399)	(3,792)
Effect of changes in currency exchange	902	(2,613)
At December 31	29,914	28,131

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19. Provisions

Changes in provisions for sales return for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018	2017
At January 1	482	568
Changes in accounting policy ¹	(482)	-
Addition	-	366
Utilization	-	(452)
At December 31	-	482

¹ Transferred to contract assets and liabilities during the year ended December 31, 2018 (Note 42).

20. Other Liabilities

Details of other liabilities as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	December 31, 2018	December 31, 2017
Current		
Withholding	4,741	4,683
Advances from customer	46,008	39,960
Unearned income	1,033	1,521
	51,782	46,164

21. Post-employment Benefit

21.1 Defined Benefit Plan

Details of retirement benefit obligations recognized on the consolidated statements of financial position as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	December 31, 2018	December 31, 2017
Present value of funded defined benefit obligations	64,715	60,123
Present value of unfunded defined benefit obligations	1,413	661
Fair value of plan assets	(52,956)	(51,988)
Net defined benefit liability	13,172	8,796

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The amounts recognized in the consolidated statements of profit or loss for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018	2017
Current service cost	8,517	8,561
Net interest cost	213	67
Total expenses	8,730	8,628

Cumulative actuarial losses recognized in the consolidated statements of comprehensive income as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	December 31, 2018	December 31, 2017
Remeasurement of net defined benefit liability before tax	(14,185)	(11,308)
Tax effect	3,252	2,375
Remeasurement of net defined benefit liability after tax	(10,933)	(8,933)

Total expenses for the years ended December 31, 2018 and 2017, are charged as follows:

<i>(in millions of Korean won)</i>	2018	2017
Cost of sales	6,957	6,870
Selling and administrative expenses	1,773	1,758
	8,730	8,628

Changes in the carrying amount of defined benefit liability for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018	2017
At January 1	60,784	59,637
Current service cost	8,517	8,561
Interest expense	1,640	1,297
Remeasurements:		
- Actuarial gains and losses from changes in financial assumptions	717	(1,902)
- Actuarial gains and losses from experience adjustments	1,190	525
- Actuarial gains and losses from changes in demographic assumptions	170	52
Benefit payments	(7,547)	(7,386)
Liabilities assumed due to business combination	661	-
Exchange differences	(4)	-
At December 31	66,128	60,784

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Changes in the fair value of plan assets for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018	2017
At January 1	51,988	54,356
Expected return on plan assets	1,427	1,230
Remeasurements:		
- Return on plan assets	(689)	(470)
Contributions of employers	7,101	3,560
Benefit payments	(6,871)	(6,688)
At December 31	52,956	51,988

The principal actuarial assumptions to calculate defined benefit liability as at December 31, 2018 and 2017, are as follows:

<i>(%)</i>	December 31, 2018	December 31, 2017
Discount rate	2.56~3.25	3.00~3.16
Future salary increases	2.78~3.87	3.00~4.27

Plan assets as at December 31, 2018 and 2017, consist of:

<i>(in millions of Korean won)</i>	December 31, 2018	December 31, 2017
Time deposits	181	23
Equity-linked Securities	7,795	9,580
Derivative linked securities		
(Principal and interest assured) and others	44,980	42,385
	52,956	51,988

Expected future contribution of defined benefit plans by employer is best estimated to be ₩6,400 million after the reporting period.

The sensitivity of the defined benefit obligations to changes in the principal actuarial assumptions is as follows:

	Changes in principal assumption	Effect on defined benefit obligation
Discount rate	0.5% increase/decrease	2.99% decrease / 3.21% increase
Salary growth rate	0.5% increase/decrease	3.24% increase / 3.06% decrease

A decrease in corporate bond yields will increase plan liabilities, although this will be partially offset by an increase in the value of the plans' bond holdings.

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The above sensitivity analyses are based on a change in an assumption while holding all other assumptions constant. In practice, this is unlikely to occur, and changes in some of the assumptions may be correlated. The sensitivity of the defined benefit obligation to changes in principal actuarial assumptions is calculated using the projected unit credit method, the same method applied when calculating the defined benefit obligations recognized on the statement of financial position.

The methods and types of assumptions used in preparing the sensitivity analysis were not changed compared to the previous period.

The Group reviews the funding level on an annual basis and has a policy to eliminate deficit in the fund.

Expected maturity analysis of undiscounted pension benefits as at December 31, 2018, is as follows:

<i>(in millions of Korean won)</i>	Less than 1 year	Between 1 and 2 years	Between 2 and 5 years	Between 5 and 10 years	More than 10 years	Total
Pension benefits	6,973	10,314	23,630	43,687	87,922	172,526

The weighted average duration of the defined benefit obligations is 7.4 years.

21.2 Defined Contribution Plan

Recognized expense related to the defined contribution plan for the year ended December 31, 2018, is ₩1,092 million (2017: ₩781 million).

22. Deferred Income Tax

The analysis of deferred tax assets and deferred tax liabilities as at December 31, 2018 and 2017, is as follows:

<i>(in millions of Korean won)</i>	December 31, 2018	December 31, 2017
Deferred tax assets		
Deferred tax asset to be recovered within 12 months	13,746	12,703
Deferred tax asset to be recovered after more than 12 months	20,665	18,418
Deferred tax assets before offsetting	34,411	31,121
Deferred tax liabilities		
Deferred tax liability to be recovered within 12 months	318	1,072
Deferred tax liability to be recovered after more than 12 months	32,484	30,546
Deferred tax liabilities before offsetting	32,802	31,618
Deferred tax assets (liabilities), net	1,609	(497)

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Changes in the deferred tax assets and liabilities for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018	2017
At January 1	(497)	(120)
Charged to the statement of profit or loss	(3,190)	2,863
Charged (credited) to other comprehensive income	5,296	(3,240)
At December 31	1,609	(497)

Changes in deferred tax assets and liabilities for the years ended December 31, 2018 and 2017, without offsetting balances within the same tax jurisdiction, are as follows:

<i>(in millions of Korean won)</i>	2018		
	Increase (decrease)		
	Beginning balance	Profit or loss	Other comprehensive income (loss)
			Ending balance
Deferred tax assets			
Net defined benefit liability	12,352	1,594	-
Allowance for doubtful accounts	2,527	(581)	-
Accrued expenses	1,704	439	-
Loss on valuation of financial assets at fair value through other comprehensive income	6,743	79	(15)
Remeasurement of net defined benefit liability	2,325	342	680
Impairment loss on intangible assets	1,144	(490)	-
Amortization	459	112	-
Leasehold deposits provided	223	70	-
Depreciation	736	(178)	-
Other	2,908	1,238	-
	31,121	2,625	665
Deferred tax liabilities			
Financial assets at fair value through other comprehensive income	(738)	30	-
Plan assets	(12,152)	(252)	-
Gain on valuation of financial assets at fair value through other comprehensive income	(16,522)	808	4,631
Intangible assets	-	(3,737)	-
Other	(2,206)	(2,664)	-
	(31,618)	(5,815)	4,631
	(497)	(3,190)	5,296
			1,609

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	2017			
	Beginning balance	Increase (decrease)		Ending balance
		Profit or loss	Other comprehensive income (loss)	
Deferred tax assets				
Net defined benefit liability	12,007	345	-	12,352
Allowance for doubtful accounts	1,555	972	-	2,527
Accrued expenses	2,034	(330)	-	1,704
Loss on valuation of available-for-sale financial assets	8,417	(1,306)	(368)	6,743
Remeasurement of net defined benefit liability	2,615	-	(290)	2,325
Impairment loss on intangible assets	1,074	70	-	1,144
Amortization	459	-	-	459
Leasehold deposits provided	287	(64)	-	223
Depreciation	1,024	(288)	-	736
Other	1,262	1,646	-	2,908
	<u>30,734</u>	<u>1,045</u>	<u>(658)</u>	<u>31,121</u>
Deferred tax liabilities				
Available-for-sale financial assets	(866)	128	-	(738)
Plan assets	(11,300)	(852)	-	(12,152)
Gain on valuation of available-for-sale financial assets	(17,012)	3,003	(2,513)	(16,522)
Other	(1,676)	(461)	(69)	(2,206)
	<u>(30,854)</u>	<u>1,818</u>	<u>(2,582)</u>	<u>(31,618)</u>
	<u>(120)</u>	<u>2,863</u>	<u>(3,240)</u>	<u>(497)</u>

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Tax effects recognized directly in other comprehensive income as at December 31, 2018 and 2017, are as follows:

	December 31, 2018		
<i>(in millions of Korean won)</i>	Before Tax	Tax effects	After Tax
Gain (loss) on valuation of financial assets at fair value through other comprehensive income	45,796	(11,083)	34,713
Remeasurement of net defined benefit liability	(14,185)	3,252	(10,933)
Currency translation differences	(1,133)	274	(859)

	December 31, 2017		
<i>(in millions of Korean won)</i>	Before Tax	Tax effects	After Tax
Gain (loss) on valuation of available-for-sale financial assets	71,279	(17,250)	54,029
Remeasurement of net defined benefit liability	(11,195)	2,376	(8,819)
Currency translation differences	(829)	9	(820)
Other comprehensive income of associates	321	(78)	243

Details of temporary differences that are unrecognized as deferred tax assets as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	December 31, 2018	December 31, 2017
Investments in subsidiaries and others	73,939	85,752

23. Share Capital

The Company is authorized to issue 1,500 million shares with a par value per share of ₩500. As at December 31, 2018, 84,702,850 shares (₩42,352 million) of ordinary share and 19,426,990 shares (₩9,713 million) of preferred share are issued outstanding. There are no movements in ordinary and preferred shares during 2018 and 2017.

When the dividend rate of ordinary share exceeds the dividend rate of preferred share (over 9% of the par value according to the resolution of the Board of Directors), the preferred share has the right to be entitled to receive dividends at the same rate with the ordinary share for the excess rate.

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24. Reserves

Details of reserves as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	December 31, 2018	December 31, 2017
Share premium	46,797	46,797
Other reserves	26,275	25,923
	<u>73,072</u>	<u>72,720</u>

25. Other Components of Equity

Details of other components of equity as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	December 31, 2018	December 31, 2017
Stock options	818	1,589
Treasury shares	(96,372)	(81,450)
Others	(26,443)	-
	<u>(121,997)</u>	<u>(79,861)</u>

26. Share-Based Payments

As at December 31, 2018, the summary of stock options to be granted to employees is as follows:

	Details
Date of the first announcement	December 4, 2018
Grant method	Issuance of shares
Exercise period	April 8, 2020 ~ April 15, 2020 (scheduled)
Vesting conditions	Options are conditional on the employee completing service between December 1, 2018 and November 30, 2019 and achieving performance goals.
Exercise price ¹	Standard price of preferred share × (1- discount rate)
Shares to be granted	19,045 shares of preferred share (scheduled)

¹ The standard price of preferred share is calculated as mathematical average of closing price on reference date, one month average closing price and one week average closing price rolled-back from the reference date, December 31, 2018. The discount rates are 50% and 100%.

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	Details
Date of the first announcement	December 26, 2017
Grant method	Issuance of shares
Exercise period	April 8, 2019 ~ April 15, 2019 (scheduled)
Vesting conditions	Options are conditional on the employee completing service between December 1, 2017 and November 30, 2018 and achieving performance goals.
Exercise price ¹	Standard price of preferred share × (1- discount rate)
Shares to be granted	151,469 shares of preferred share (scheduled)

¹ The standard price of preferred share is calculated as mathematical average of closing price on reference date, one month average closing price and one week average closing price rolled-back from the reference date, December 31, 2018. The discount rates are 50% and 100%.

The summary of stock options granted to employees for the year ended December 31, 2018, is as follows:

	Details
Date of the first announcement	February 9, 2017
Grant method	Issuance of shares
Exercise period	April 9, 2018 ~ April 16, 2018
Vesting conditions	Options are conditional on the employee completing service between January 1, 2017 and December 31, 2017 and achieving performance goals.
Exercise price ¹	Standard price of preferred share × (1- discount rate)
Shares to be granted ²	246,083 shares of preferred share

¹ The standard price of preferred share is ₩4,958 and the discount rates are 50% and 100%.

² Vested stock options of 246,083 of preferred share were exercised and unexercised options have been lapsed.

The fair value of stock appreciation rights determined was ₩818 million (2017: ₩1,589 million). The significant inputs into the model were the weighted average share price of ₩4,701 (2017: ₩5,054), volatility of 11.9% (2017: 9.8%), dividend yield of 5.0% (2017: 4.9%), an expected option life of 0.95 year (2017: 1.20 years) and an annual risk-free interest rate of 1.75% (2017: 1.87%).

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Changes in stock options for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018	2017
At January 1	1,589	901
Compensation cost	818	1,589
Exercise	(1,589)	(901)
At December 31	818	1,589

27. Treasury Shares

Changes in treasury shares for the years ended December 31, 2018 and 2017, are as follows:

<i>(shares, in millions of Korean won)</i>	2018		
	Ordinary share	Preferred share	Amounts
At January 1	10,087,309	4,637,703	81,450
Acquisition	2,051,099	188,945	15,924
Disposal	-	(288,634)	(1,002)
At December 31	12,138,408	4,538,014	96,372

<i>(shares, in millions of Korean won)</i>	2017		
	Ordinary share	Preferred share	Amounts
At January 1	9,560,180	4,443,759	75,820
Acquisition	676,110	276,104	6,810
Disposal	(148,981)	(82,160)	(1,180)
At December 31	10,087,309	4,637,703	81,450

28. Retained Earnings

Retained earnings as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	December 31, 2018	December 31, 2017
Legal reserve ¹	32,300	32,300
Discretionary reserve	519,405	494,586
Unappropriated retained earnings	23,962	45,327
	575,667	572,213

¹ The Commercial Code of the Republic of Korea requires the Company to appropriate, as a legal reserve, an amount equal to a minimum of 10% of cash dividends paid until such reserve equals 50% of its issued share capital. As at December 31, 2018, the Company's reserve equals 50% of the capital, therefore no additional reserve is needed. The reserve is not available for the payment of cash dividends, but may be transferred to share capital or used to reduce accumulated deficit, if any, with the ratification of the Company's majority shareholders.

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Changes in retained earnings for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018	2017
At January 1	572,213	551,632
Effects of changes in accounting policy	7,282	-
Profit for the year attributable to owners of the Parent		
Company	18,849	41,741
Remeasurement of net defined benefit liability	(2,114)	566
Dividend paid	(21,530)	(21,726)
Disposal of financial assets at fair value through other comprehensive income and others	967	-
At December 31	576,667	572,213

29. Contingencies and Commitments

As at December 31, 2018, the Group has credit agreements with Woori Bank up to ₩4,200 million in relation to B2B transactions and loan agreements with related party, Daekyo Holdings Co., Ltd. up to ₩9,900 million.

As at December 31, 2018, the Group has borrowing agreements in foreign currencies with Shinhan Bank up to USD 12,230 thousand.

In relation to using the copyright of Noonoppi Math, the Group pays Korea contents bank a certain percentage of sales from the use. Payments of the copyright for the years ended December 31, 2018 and 2017, are ₩1,308 million and ₩805 million, respectively.

As at December 31, 2018, certain property, plant and equipment and investment properties are provided as collateral for borrowings in foreign currencies from Woori Bank (Notes 14, 15 and 18).

As at December 31, 2018, the Group provides financial deposits as collaterals amounting to ₩1,315 million for certain lessees in connection with the lessees' guarantee deposits. Seoul Guarantee Insurance Co., Ltd. has provided guarantees up to ₩4,262 million for the Group's execution of contracts.

The Group entered into contracts with free-lance instructors to manage its educational service members. In accordance with the contracts, the Group pays the instructors a certain percentage of monthly cash collections from its educational service members. Expenses in relation to these contracts amounted to ₩326,137 million (2017: ₩357,004 million) in 2018.

As at December 31, 2018, the Group is either a plaintiff in 5 legal case or a defendant in 8 legal cases (total amount of litigation: ₩3,641 million). The outcome of the cases and effect on the financial statements could not be ascertained at the end of the reporting period.

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As at December 31 2018, depository bond at Woori Bank amounting to ₩233 million are under provisional seizure due to the result of the trial for damages claim.

As at December 31, 2018, ₩1,915 million out of consideration due to business combination with KnowRe Americas, Inc. are pledged as collateral and have not been paid.

As at December 31, 2018, the Group has agreements with KEB Hana Bank up to USD 2,804 thousand for derivatives transactions.

Assets pledged as margin for futures trading as at December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	<u>December 31, 2018</u>	<u>December 31, 2017</u>
Financial assets at fair value through profit or loss		
NH Investment & Securities Co., Ltd.	-	415
Korea Investment & Securities Co., Ltd.	-	415
Financial deposits		
Mirae Asset Daewoo Co., Ltd.	<u>72</u>	<u>-</u>
	<u>72</u>	<u>830</u>

As at December 31, 2018, the Group has been provided with payment guarantees of USD 11,730 thousands from the ultimate Parent Company, Daekyo Holdings Co., Ltd., in relation to certain borrowings of EYE LEVEL HUB LLC (Note 18). The ultimate Parent Company, Daekyo Holdings Co., Ltd., provides financial support for Daekyo Edupia Co., Ltd., a subsidiary.

As at December 31, 2018, the Group's leasehold deposits are provided as collateral for borrowings from Daekyo Holdings Co., Ltd.

As at December 31, 2018, the Group has entered into a share lease agreement with Mirae Asset Daewoo Co., Ltd. and Korea Investment & Securities Co., Ltd. In relation to the agreement, no shares are provided by the Group as at December 31, 2018.

As at December 31, 2018, certain property, plant and equipment are provided as leasehold rights for ₩5,618 million and pledged as collateral for ₩6,832 million.

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As at December 31, 2018, the Group entered into an agreement with the other investors that grants put options in relation to the equity investments in KnowRe Americas, Inc.

<i>(in shares)</i>	Exercisable number of shares	Exercise period	Exercise price	Performance conditions
The Time- Based Put Right	332,693	<ul style="list-style-type: none"> - Any time during the year of 2023 - In case the holder's termination reason does not occur before January 1, 2025: Any time during the period starting from occurrence date of termination reason until the ending day after seven years from the effective date - Expired on the earliest day among the termination timing of the last exercisable day, the day after seven years from the effective date and IPO completion date 	<ul style="list-style-type: none"> - Price when the conditions are not performed: At the time of judgment, the larger one of (1) KnowRe's net income multiplied by 20 which is stated in the financial statements during the certain financial statements period. Or (2) KnowRe's revenue multiplied by 6.5 which is stated in the financial statements during the certain financial statements period. - Price when the conditions are performed: At the time of judgment, the larger one of (1) KnowRe's net income multiplied by 24 which is stated in the financial statements during the certain financial statements period. Or (2) KnowRe's revenue multiplied by 8 which is stated in the financial statements during the certain financial statements period. 	<p>Any of the following three conditions are considered to be met:</p> <ul style="list-style-type: none"> - Operating income of KnowRe Americas, Inc. as defined by GAAP or IFRS reaches or exceeds US\$2,500,000 for two consecutive fiscal years - Annual revenue of KnowRe Americas, Inc. as defined by GAAP or IFRS exceeds US\$7,000,000 during a fiscal year - The number of registered users of Summit Math products of Daekyo Co., Ltd. is at least 100,000 per month for the consecutive three months
The Termination- Based Put Right	100,000	<ul style="list-style-type: none"> - In case the holder's termination reason occurs after two years from the effective date: Any time during the year when the termination reason occurs - In case the holder's cancellation reason does not occur before the first day of the year after seven years from the acquisition date of exercisable shares: Any time during the period starting from the first day of the corresponding year until the ending day after seven years from the acquisition date - Expired on the earliest day among the termination timing of the last exercisable day, the day after seven years from the effective date and IPO completion date 		
Subsequent Time-Based Put Right	-	<ul style="list-style-type: none"> - Any time during the year after five years from the year when the acquisition of exercisable shares occurs - Expired on the earliest day among the termination timing of the last exercisable day, the day after seven years from the acquisition date of exercisable shares and IPO completion date 		

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Subsequent Termination-Based Put Right	-	<ul style="list-style-type: none"> - In case the holder's termination reason occurs after two years from the acquisition date: Any time during the year when the termination reason occurs - Expired on the earliest day among the termination timing of the last exercisable day, the day after seven years from the acquisition date of exercisable shares and IPO completion date
Put Shares	1,997,136	- Any time during the period starting from the day after five years from the contract until the earliest day between the day after ten years from the contract and IPO completion date
Subsequent Put Share	-	- As for the exercisable shares acquired after the effective date, any time during the period starting from the day after five years from the acquisition date of exercisable shares until the earliest day between the day after five years from the acquisition and IPO completion date

The Group measured the financial liabilities which are the present value of redemption amount at amortized cost using the effective interest method, taking into account of exercise of put options. As at December 31, 2018, the book amount of financial liabilities measured at amortized cost is ₩26,777 million.

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30. Revenue from Contracts with Customers

The Group has recognized the following amounts relating to revenue in the statement of profit or loss:

<i>(in millions of Korean won)</i>	2018	2017
Revenue from contracts with customers	762,598	811,797
Revenue from other sources	544	406
	<u>763,142</u>	<u>812,203</u>

Disaggregation of Revenue from Contracts with Customers

The Group derives revenue from the transfer of goods and services over time and at a point in time in the following major business divisions and geographical regions:

(in millions of Korean won)

<i>Korean won)</i>	2018								
	Noonnoppi business		Media business				Other business		
	Domestic	Domestic	U.S.A	Asia	Europe	Others	Domestic	U.S.A	Total
Segment revenue	639,261	35,696	10,207	13,947	111	87	68,535	3,746	771,590
Inter-segment revenue	(82)	(1)	(1,363)	(1,739)	(15)	-	(5,423)	(369)	(8,992)
Revenue from external customers	639,179	35,695	8,844	12,208	96	87	63,112	3,377	762,598
Timing of revenue recognition									
At a point in time	639,179	35,394	1,019	2,807	31	87	26,304	152	704,973
Over time	-	301	7,825	9,401	65	-	36,808	3,225	57,625

Revenues from external customers come from the sale of goods and rendering of services of Noonnoppi, Media and other business.

The Group is domiciled in Korea and overseas. The amount of its revenue from external customers are broken down by location of the customers.

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31. Selling and Administrative Expenses

Details of selling and administrative expenses for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018	2017
Wages and salaries	26,342	27,053
Post-employment benefits	1,773	1,758
Welfare expense	5,358	5,460
Depreciation	2,830	3,493
Bad debt expense ¹	-	944
Advertising expense	28,724	31,735
Commission expense	25,275	24,872
Amortization	3,207	3,226
Taxes and dues	3,132	3,028
Transportation expense	1,259	2,355
Printing expense	455	182
Rental expense	3,851	3,980
Other	7,137	7,293
	109,343	115,379

¹ Bad debt expense during the year ended December 31, 2018, is presented separately in the statement of profit or loss in accordance with amendments of Korean IFRS 1001 *Presentation of financial statements*.

32. Expenses by Nature

Expenses that are recorded by nature as cost of sales and selling and administrative expenses in the statement of profit or loss for the years ended December 31, 2018 and 2017, consist of:

<i>(in millions of Korean won)</i>	2018	2017
Changes in inventories	1,272	4,038
Purchase of raw materials and merchandise	35,856	41,117
Depreciation, amortization	32,271	33,991
Employee benefit expenses	157,113	154,171
Commission expenses	405,290	427,381
Rental expenses	38,878	37,477
Advertising expenses	28,724	31,813
Other expenses	36,653	36,730
	736,057	766,718

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33. Other Income

Other income for the years ended December 31, 2018 and 2017, consists of:

<i>(in millions of Korean won)</i>	2018	2017
Interest income (lease) ¹	-	1,149
Dividend income	3,295	3,876
Gain on valuation of financial assets at fair value through profit or loss	7,717	-
Gain on disposal of financial assets at fair value through profit or loss	7,000	-
Gain on disposal of financial assets at fair value through profit or loss	-	1,490
Gain on valuation of financial assets at fair value through profit or loss	-	624
Gain on disposal of available-for-sale financial assets	-	16,989
Gain on disposal of non-current assets held for sale	-	1,949
Gain on valuation of derivatives	-	666
Gain on transaction of derivatives	26	1,179
Other	1,870	1,789
	<u>19,908</u>	<u>29,711</u>

¹ Interest income during the year ended December 31, 2018, is presented separately in the statement of profit or loss in accordance with amendments of Korean IFRS 1001 *Presentation of financial statements*.

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34. Other Expenses

Other expenses for the years ended December 31, 2018 and 2017, consist of:

<i>(in millions of Korean won)</i>	2018	2017
Interest expense (lease)	541	408
Loss on foreign currency transaction	129	328
Loss on foreign currency translation	287	1,471
Donations	4,959	1,715
Other commission expenses	1,564	2,099
Loss on valuation of financial assets at fair value through profit or loss	8,485	-
Loss on disposal of financial assets at fair value through profit or loss	5,719	-
Loss on disposal of financial assets at fair value through profit or loss	-	415
Loss on valuation of financial assets at fair value through profit or loss	-	2,852
Impairment loss on intangible assets	521	4,330
Impairment loss on available-for-sale financial assets	-	3,137
Loss on disposal of available-for-sale financial assets	-	2,110
Loss on disposal of non-current assets held for sale	-	676
Loss on valuation of derivatives	289	194
Loss on transaction of derivatives	228	566
Other	1,589	1,509
	24,311	21,810

Other bad debt expense during the year ended December 31, 2018, is presented separately in the statement of profit or loss in accordance with amendments of Korean IFRS 1001 *Presentation of financial statements*.

35. Other Finance Income

Other finance income for the years ended December 31, 2018 and 2017, is as follows:

<i>(in millions of Korean won)</i>	2018	2017
Interest Income ¹	-	1,938
Gain on foreign currency translation	286	80
	286	2,018

¹ Interest income during the year ended December 31, 2018, is presented separately in the statement of profit or loss in accordance with amendments of Korean IFRS 1001 *Presentation of financial statements*.

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36. Finance Costs

Finance costs for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018	2017
Interest expenses	1,402	1,034
Loss on foreign currency translation	-	501
	<u>1,402</u>	<u>1,535</u>

37. Income Tax Expense

Income tax expense for the years ended December 31, 2018 and 2017, consists of:

<i>(in millions of Korean won)</i>	2018	2017
Current tax on profit for the year	5,702	15,706
Changes in total deferred tax	(2,105)	378
Deferred tax charged or credited directly to equity	5,296	(3,240)
Income tax expense	<u>8,893</u>	<u>12,844</u>

The tax on the Group's profit before tax differs from the theoretical amount that would arise using the weighted average tax rate applicable to profits of the consolidated entities as follows:

<i>(in millions of Korean won)</i>	2018	2017
Profit before tax	28,117	54,463
Tax calculated at domestic tax rates applicable to profits in the respective countries	7,812	12,623
Tax adjustments:		
Income not subject to tax / expenses not deductible for tax purposes	(196)	462
Effects of unrecognized deferred income tax	-	287
Adjustments in respect of prior years	2	(604)
Additional payment of income taxes	2,213	-
Others	(938)	76
Income tax expense	<u>8,893</u>	<u>12,844</u>
Effective tax rate (Income tax over profit before tax)	<u>31.63%</u>	<u>23.58%</u>

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38. Earnings per Share

Basic earnings per share is calculated by dividing the profit attributable to shareholders of the Group by the weighted average number of shares in issue excluding shares purchased by the Group and held as treasury shares. Preferred shares have rights to participate in the profits of the Group. These participation rights have been considered in presenting the EPS for ordinary shares and preferred shares.

Basic earnings per ordinary share for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018	2017
Profit attributable to ordinary shares ¹	15,127	34,835
Weighted average number of ordinary shares outstanding ² (Unit: share)	73,770,060	74,826,527
Basic earnings per share (in won)		
Basic earnings per ordinary share	205	466

Basic earnings per preferred share for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018	2017
Profit attributable to preferred shares ¹	3,722	6,906
Weighted average number of preferred shares outstanding ² (Unit: share)	14,871,361	14,840,587
Basic earnings per share (in won)		
Basic earnings per preferred share	250	465

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¹ Profit attributable to ordinary and preferred shares is as follows:

<i>(in millions of Korean won)</i>	2018	2017
Profit attributable to equity holders		
of the Parent Company (A)	18,849	41,741
Ordinary shares dividends (B)	15,127	17,908
Preferred shares dividends (C)	3,722	3,697
Undistributed earnings (D=A-B-C)	-	20,136
Undistributed earnings available for ordinary shares (E)	-	16,927
Undistributed earnings available for preferred shares(F)	-	3,209
Profit attributable to ordinary shares (G=B+E)	15,127	34,835
Profit attributable to preferred shares (H=C+F)	3,722	6,906

² Weighted average numbers of shares are calculated as follows:

<i>(Shares)</i>	2018	2017
Ordinary shares issued	84,702,850	84,702,850
Ordinary treasury shares	(12,138,408)	(10,087,309)
Ordinary shares outstanding	72,564,442	74,615,541
Weighted average number of ordinary shares outstanding	73,770,060	74,826,527
Preferred shares issued	19,426,990	19,426,990
Preferred treasury shares	(4,538,014)	(4,637,703)
Preferred shares outstanding	14,888,976	14,789,287
Weighted average number of preferred shares outstanding	14,871,361	14,840,587

Diluted earnings per ordinary share for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018	2017
Profit attributable to ordinary shares	15,127	34,835
Weighted average number of ordinary shares outstanding and dilutive potential ordinary shares (Unit: share)	73,770,060	74,826,527
Diluted earnings per share (in won)		
Diluted earnings per ordinary share	205	466

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Diluted earnings per preferred share for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018	2017
Profit attributable to preferred shares	3,722	6,906
Weighted average number of preferred shares outstanding and dilutive potential preferred shares (Unit: share)	15,041,875	15,188,105
Diluted earnings per share (in won)		
Diluted earnings per preferred share	247	455

39. Dividends

The interim dividends for ordinary shares paid in 2018 and 2017 were ₩7,373 million (₩100 per share, dividend rate: 20%) and ₩7,476 million (₩100 per share, dividend rate: 20%) and the interim dividends for preferred shares were ₩1,492 million (₩100 per share, dividend rate: 20%) and ₩1,482 million (₩100 per share, dividend rate: 20%), respectively.

The dividends for ordinary shares paid in 2018 and 2017 were ₩10,446 million (₩140 per share, dividend rate: 28%) and ₩10,521 million (₩140 per share, dividend rate: 28%) and the dividends for preferred shares were ₩2,219 million (₩150 per share, dividend rate: 30%) and ₩2,248 million (₩150 per share, dividend rate: 30%), respectively.

A dividend for ordinary share in respect of the year ended December 31, 2018, of ₩110 per share (dividend rate: 22%), amounting to total dividend of ₩7,983 million and a dividend for preferred share of ₩120 per share (dividend rate: 24%), amounting to total dividend of ₩1,788 million, are to be proposed at the annual general meeting on March 22, 2019. These financial statements do not reflect this dividend payable.

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40. Cash Generated from Operations

Cash generated from operations for the years ended December 31, 2018 and 2017, is as follows:

<i>(in millions of Korean won)</i>	2018	2017
Profit for the year	19,225	41,619
Adjustments :	52,320	45,625
Post-employment benefits	8,730	8,628
Depreciation and amortization	32,271	33,991
Impairment loss on intangible assets	521	4,330
Impairment loss on available-for-sale financial assets	-	3,137
Interest income	(3,783)	(3,087)
Interest expense	1,942	1,442
Loss on valuation of financial assets at fair value through profit or loss	768	-
Gain on disposal of financial assets at fair value through profit or loss	(1,281)	-
Gain on disposal of available-for-sale financial assets	-	(14,879)
Dividend income	(3,295)	(3,876)
Income tax expense	8,893	12,844
Other	7,554	3,095
Changes in operating assets and liabilities:	(3,412)	16,783
Decrease in financial assets at fair value through profit or loss	5,354	-
Decrease in financial assets at fair value through gain or loss	-	21,320
Decrease (increase) in trade receivables	5,179	(1,381)
Decrease (increase) in other receivables	1,262	(221)
Increase in contract assets	(1,815)	-
Decrease (increase) in inventories	(2,896)	3,161
Decrease (increase) in other assets	(3,117)	1,268
Decrease in trade payables	(2,289)	(972)
Decrease in other payables	(2,466)	(328)
Increase in contract liabilities	116	-
Decrease in provisions	-	(85)
Increase (decrease) in other liabilities	4,860	(1,314)
Payment of net defined benefit liability	(676)	(698)
Deposit in plan assets, net	(7,101)	(3,560)
Changes in other assets, liabilities	177	(407)
Cash generated from operations	68,133	104,027

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Significant non-cash transactions for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	2018	2017
Valuation of financial assets at fair value through other comprehensive income	16,288	1,453
Exercise of stock options	1,589	901
Reclassification of investments in associates	9,641	-
Reclassification of investment properties	5,666	21,725
Increase (decrease) in non-trade payables in relation to property, plant and equipment	1,921	(4,726)
Increase (decrease) in non-trade payables in relation to intangible assets	74	(114)
Increase in non-trade payables of consideration transferred related to business combination	1,915	-

Changes in liabilities arising from financing activities

Changes in liabilities arising from financial activities for the years ended December 31, 2018 and 2017, are as follows:

<i>(in millions of Korean won)</i>	Liabilities from financing activities		
	Short-term borrowings	Long-term borrowings	Total
At January 1, 2017	18,774	9,460	28,234
Cash flows	2,510	-	2,510
Exchange differences	(1,354)	(1,259)	(2,613)
At December 31, 2017	19,930	8,201	28,131
At January 1, 2018	19,930	8,201	28,131
Cash flows	73	4	77
Exchange differences	548	354	902
Business combination	804	-	804
Others	217	(217)	-
At December 31, 2018	21,572	8,342	29,914

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41. Related Party Transactions

As at December 31, 2018 and 2017, the ultimate Parent Company of the Group is Daekyo Holdings Co., Ltd.

Details of other related parties that have sales and other transactions with the Group or have receivables and payables balances as at December 31, 2018 and 2017, are as follows:

	December 31, 2018	December 31, 2017	Relationship
Associates	With the Green Co., Ltd.	With the Green Co., Ltd.	An associate
	DKI Growing Star 1'st Investment Partnership	DKI Growing Star 1'st Investment Partnership	An associate
	HR DAVINCHI Private Securities Investment Trust 2 ¹	HR DAVINCHI Private Securities Investment Trust 2	An associate
	IBK A One Convertible Professional Investment Type Private Security Investment Trust 1	IBK A One Convertible Professional Investment Type Private Security Investment Trust 1	An associate
	Rico-Synergy Collaboration Multi Mezzanine Specialized Investment Model Private Equity Investment Trust No. 3	Rico-Synergy Collaboration Multi Mezzanine Specialized Investment Model Private Equity Investment Trust No. 3	An associate
	KOREA INVESTMENT PrivateDebt Professional Investment Type Private Security Investment Trust	-	An associate
	HEUNGKUK KOSDAQ Venture Professional Investment Type Private Security Investment Trust	-	An associate
	J&J Partner Alpha Private Security 1	-	An associate
	LIME Globali Trade Finance 5 No.1	-	An associate
Other related parties	Daekyo D&S Co., Ltd.	Daekyo D&S Co., Ltd.	A subsidiary of Parent Company
	Daekyo CNS Co., Ltd.	Daekyo CNS Co., Ltd.	A subsidiary of Parent Company
	Gangwon Deep Sea Water Co., Ltd.	Gangwon Deep Sea Water Co., Ltd.	A subsidiary of Parent Company
	Daekyo Culture foundation	Daekyo Culture foundation	Key management performs the important duty
	World Youth and Culture foundation	World Youth and Culture foundation	Key management performs the important duty
	BongAm Institute	BongAm Institute	Key management performs the important duty
	Deakyo Investment Co., Ltd.	Deakyo Investment Co., Ltd.	Key management performs the important duty
	Tara Graphics Co., Ltd.	Tara Graphics Co., Ltd.	Relatives of key managements is the entity's CEO
	Tara Distribution Co., Ltd.	Tara Distribution Co., Ltd.	Relatives of key managements is the entity's CEO
	Tara TPS Co., Ltd.	Tara TPS Co., Ltd.	Relatives of key managements is the entity's CEO
	Crystal One Co., Ltd.	Crystal One Co., Ltd.	Relatives of key managements is the entity's CEO
	Crystal Wine Collection Co., Ltd.	Crystal Wine Collection Co., Ltd.	Key management performs the important duty
	Crystal Wine Club Co., Ltd.	Crystal Wine Club Co., Ltd.	Key management performs the important duty
	Crystal & Co.	-	Key management performs the important duty
	Korea contents bank	Korea contents bank	Key management performs the important duty

¹ The Group sold HR DAVINCHI Private Securities Investment Trust 2 during the year ended December 31, 2018.

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Significant transactions for the years ended December 31, 2018 and 2017, are as follows:

(in millions of Korean won)

	2018					
	Sales		Purchases			
	Sales ¹	Others	Purchases ²	Acquisition of	Selling and	Others
				non-current assets	administrative expenses	
Parent Company						
Daekyo Holdings Co., Ltd.	56	370	-	-	2,944	293
Associates						
With the Green Co., Ltd.	-	-	-	-	1	-
Other related parties						
Daekyo D&S Co., Ltd.	94	30	485	-	8,381	5
Daekyo CNS Co., Ltd.	206	288	103	2,954	14,440	-
Gangwon Deep Sea Water Co., Ltd.	12	91	-	-	917	152
Daekyo Culture Foundation	208	387	-	-	-	1,000
World Youth & Culture Foundation	109	-	120	-	-	-
BongAm Institute	-	-	-	-	-	645
Deakyo Investment Co., Ltd.	43	9	-	-	-	-
Tara Graphics Co., Ltd.	24	-	35	-	392	-
Tara Distribution Co., Ltd.	-	-	7,955	-	481	-
Tara TPS Co., Ltd.	295	-	23,626	-	452	-
Crystal One Co., Ltd.	-	1	-	10	-	-
Crystal Wine Collection Co., Ltd.	35	8	-	-	-	-
Crystal Wine Club Co., Ltd.	-	-	-	-	2	1
Crystal & Co.	9	-	-	-	13	6
Korea contents bank	-	-	-	-	1,308	-

(in millions of Korean won)

	2017					
	Sales		Purchases			
	Sales ¹	Others	Purchases ²	Acquisition of	Selling and	Others
				non-current assets	administrative expenses	
Parent Company						
Daekyo Holdings Co., Ltd.	92	310	1	8	3,531	400
Associates						
With the Green Co., Ltd.	-	-	-	-	1	-
Other related parties						
Daekyo D&S Co., Ltd.	114	37	281	141	7,899	4
Daekyo CNS Co., Ltd.	195	23	-	3,050	13,906	-
Gangwon Deep Sea Water Co., Ltd.	92	27	3	-	932	155
Daekyo Culture Foundation	134	79	-	-	1	-
World Youth & Culture Foundation	108	-	-	-	-	-
BongAm Institute	-	-	-	-	-	621

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Daekyo Investment Co., Ltd.	44	4	-	-	624	-
Tara Graphics Co., Ltd.	-	-	53	6	326	-
Tara Distribution Co., Ltd.	-	-	6,807	-	-	-
Tara TPS Co., Ltd.	312	-	24,892	60	449	-
Crystal One Co., Ltd.	225	-	-	-	1,895	392
Crystal Wine Collection Co., Ltd.	23	3	-	-	1	-
Crystal Wine Club Co., Ltd.	-	-	-	-	15	8
Korea contents bank	-	-	805	-	-	-

¹ Sales of goods and rendering of services are included.

² Purchases of goods and services (royalty and others) are included.

The balances of significant receivables and payables as at December 31, 2018 and 2017, are as follows:

(in millions of Korean won)

	December 31, 2018				
	Receivables			Payables	
	Trade receivables	Other receivables	Others	Trade payables	Other payables
Parent Company					
Daekyo Holdings Co., Ltd.	-	104	-	48	9,364
Other related parties					
Daekyo D&S Co., Ltd.	4	58	7,610	-	1,810
Daekyo CNS Co., Ltd.	-	6	-	45	4,617
Gangwon Deep Sea Water Co., Ltd.	1	88	-	1	268
Daekyo Culture Foundation	-	-	-	-	36
World Youth&Culture Foundation	-	-	-	-	36
Daekyo Investment Co., Ltd.	-	7	-	-	692
Tara Graphics Co., Ltd.	-	-	-	-	103
Tara Distribution Co., Ltd.	-	-	-	1,451	-
Tara TPS Co., Ltd.	-	-	-	3,404	-
Crystal One Co., Ltd.	-	-	-	-	14
Crystal Wine Collection Co. Ltd.	4	1	-	-	175
Crystal wine Club Co., Ltd.	-	-	-	-	-
Crystal & Co.	-	-	-	-	149
Korea contents bank	-	13	-	-	106

(in millions of Korean won)

	December 31, 2017				
	Receivables			Payables	
	Trade receivables	Other receivables	Others	Trade payables	Other payables
Parent Company					
Daekyo Holdings Co., Ltd.	27	81	-	-	9,944
Other related parties					
Daekyo D&S Co., Ltd.	2	28	7,560	-	1,814

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Daekyo CNS Co., Ltd.	-	2	-	-	3,993
Gangwon Deep Sea Water Co., Ltd.	-	70	-	-	287
Daekyo Culture Foundation	5	53	-	-	36
World Youth&Culture Foundation	-	-	-	-	36
Deakyo Investment Co., Ltd.	-	3	-	-	692
Tara Graphics Co., Ltd.	-	-	-	-	30
Tara Distribution Co., Ltd.	-	-	-	1,823	-
Tara TPS Co., Ltd.	-	-	-	5,820	1
Crystal One Co., Ltd.	-	1	-	-	24
Crystal Wine Collection Co. Ltd.	-	-	-	-	178
Crystal wine Club Co., Ltd.	-	-	-	-	3
Korea contents bank	-	-	-	-	114

Fund transactions with related parties for the years ended December 31, 2018 and 2017, are as follows:

(in millions of Korean won)

	2018					
	Dividend paid	Dividends of subsidiaries	Dividend received	Equity contributions (reduction) in cash	Borrowing transactions	
					Borrowings	Repayments
Parent Company						
Daekyo Holdings Co., Ltd.	11,081	297	-	-	6,470	5,740
Associates						
With the Green Co., Ltd.	-	-	-	2,000	-	-
DKI Growing Star 1 st Investment Partnership	-	-	1,433	(120)	-	-
HR DAVINCHI Private Securities Investment Trust 2	-	-	364	(5,000)	-	-
KOREA INVESTMENT PrivateDebt Professional Investment Type Private Security Investment Trust	-	-	173	3,160	-	-
HEUNGKUK KOSDAQ Venture Professional Investment Type Private Security Investment Trust	-	-	-	5,000	-	-
J&J Partner Alpha Private Security 1	-	-	-	4,305	-	-
LIME Globali Trade Finance 5 No.1	-	-	-	5,336	-	-
Other related parties						
Daekyo Culture Foundation	715	-	-	-	-	-
World Youth&Culture Foundation	232	-	-	-	-	-
BongAm Institute	30	-	-	-	-	-

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Crystal One Co., Ltd.	468	-	-	-	-	-
(in millions of Korean won)	2017					
	<u>Dividend paid</u>	<u>Dividends of subsidiaries</u>	<u>Dividend received</u>	<u>Equity contributions (reduction) in cash</u>	<u>Borrowing transactions</u>	
					<u>Borrowings</u>	<u>Repayments</u>
Parent Company						
Daekyo Holdings Co., Ltd.	11,081	329	-	-	4,380	2,810
Associates						
DKI Growing Star 1 st Investment Partnership	-	-	-	(1,212)	-	-
HR DAVINCHI Private Securities Investment Trust 2	-	-	-	5,000	-	-
IBK A One Convertible Professional Investment Type Private Security Investment Trust 1	-	-	-	3,000	-	-
Rico-Synergy Collaboration Multi Mezzanine Specialized Investment Model Private Equity Investment Trust No. 3	-	-	-	3,000	-	-
Other related parties						
Daekyo CNS Co., Ltd.	-	125	-	-	-	-
Daekyo Culture Foundation	715	3	-	-	-	-
World Youth&Culture Foundation	233	-	-	-	-	-
BongAm Institute	30	-	-	-	-	-
Deakyo Investment Co., Ltd.	-	125	-	-	-	-
Crystal One Co., Ltd.	468	-	-	-	-	-

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Key management compensation of the Group for the years ended December 31, 2018 and 2017, consists of:

<i>(in millions of Korean won)</i>	2018	2017
Short-term employee benefit	3,570	4,574
Post-employment benefits	665	705
	<u>4,235</u>	<u>5,279</u>

Key management refers to the directors who have significant control and responsibilities on the Group's business plans, operations and controls.

As at December 31, 2018, no payment guarantees are provided by the Group for the funding sources of the related parties and payment guarantees provided by the related parties are described in Note 29.

42. Changes in Accounting Policies

42.1 Adoption of Korean IFRS 1109 *Financial Instruments*

As explained in Note 2, the Group has applied Korean IFRS 1109 *Financial Instruments* on January 1, 2018, the date of initial application. In accordance with the transitional provisions in Korean IFRS 1109, comparative figures for prior reporting period have not been restated. The impact on the statement of financial position with adoption of Korean IFRS 1109 *Financial Instruments* at the date of initial application is as follows:

(a) Beginning balance of retained earnings after restatement

The total impact on the Group's retained earnings due to classification and measurement of financial instruments as at January 1, 2018, is as follows:

<i>(in millions of Korean won)</i>	Notes	January 1, 2018
Beginning balance - Korean IFRS 1039		<u>572,213</u>
Reclassification of available-for-sale securities to financial assets at fair value through profit or loss	(b)(i)	3,392
Reclassification of other comprehensive income of accumulated impairment loss on equity instruments measured at fair value through other comprehensive income	(b)(ii)	2,932
Changes in valuation of investments in associates and joint ventures	(b)(iv)	369
Changes in provision for impairment of trade and other receivables	(c)(i)	589
Adjustments to retained earnings from adoption of Korean IFRS 1109		<u>7,282</u>
Beginning balance of retained earnings - Korean IFRS 1109		<u>579,495</u>

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(b) Classification and measurement of financial instruments

On the date of initial application of Korean IFRS 1109, January 1, 2018, the Group's management has assessed which business models apply to the financial assets held by the Group and has classified its financial instruments into the appropriate Korean IFRS 1109 categories. The main effects resulting from this reclassification are as follows:

<i>(in millions of Korean won)</i>	Notes	Fair value through profit or loss	Fair value through other comprehensive income (Available-for- sale financial assets in 2017)	Amortized cost (Loans and receivables in 2017)^{1,2}	Total
Financial assets – January 1, 2018					
Beginning balance – Korean IFRS 1039 ¹		52,465	265,374	154,739	472,578
Reclassification from available-for-sale financial assets to financial assets at fair value through profit or loss	(i)	159,761	(159,761)	-	-
Reclassification of equity investments that are not held for trading from available-for- sale financial assets to financial assets at fair value through other comprehensive income	(ii)	-	-	-	-
Reclassification of listed and unlisted debt securities from available-for-sale financial assets to financial assets at fair value through other comprehensive income ¹	(iii)	-	-	-	-
Beginning balance - Korean IFRS 1109 ¹		<u>212,226</u>	<u>105,613</u>	<u>154,739</u>	<u>472,578</u>

¹ The adjustments arising from adoption of Korean IFRS 1115 are not included and the beginning balance as at January 1, 2018, presented available-for-sale financial assets at fair value through other comprehensive income, and loans and receivables at amortized cost, respectively.

² Cash and cash equivalents are included.

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The impact of these changes on the Group's equity is as follows:

<i>(in millions of Korean won)</i>	Notes	Effect on accumulated other comprehensive income	Effects on fair value through other comprehensive income reserve	Effect on retained earnings
Beginning balance – Korean IFRS 1039		53,453	-	572,213
Reclassification from available-for-sale financial assets to financial assets at fair value through profit or loss	(i)	(3,392)	-	3,392
Reclassification of equity investments that are not held for trading from available-for- sale financial assets to financial assets at fair value through other comprehensive income	(ii)	-	-	-
Reclassification of listed and unlisted debt securities from available-for-sale financial assets to financial assets at fair value through other comprehensive income	(iii)	-	-	-
Reclassification of other comprehensive income of accumulated impairment loss on equity instruments measured at fair value through other comprehensive income ¹	(ii)	(2,932)	-	2,932
Changes in valuation of investments in associates and joint ventures	(iv)	(369)	-	369
		(6,693)	-	6,693
Beginning balance - Korean IFRS 1109 ¹		46,760	-	578,906

¹ Impairment of financial assets are not included.

(i) Reclassification from available-for-sale to fair value through profit or loss

As at January 1, 2018, W159,761 million were reclassified from available-for-sale to financial assets at fair value through profit or loss. They do not meet the criteria to be classified as at amortized cost in accordance with Korean IFRS 1109, because their cash flows do not represent solely payments of principal and interest. Related accumulated other comprehensive income of W3,392 million were transferred from the available-for-sale financial assets to retained earnings on January 1, 2018. Related changes in fair value amounting to W768 million were recognized as loss for the year in the statement of profit or loss and in relation to this, deferred tax income of W186 million was generated during the year ended December 31, 2018.

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(ii) Reclassification of equity investments from available-for-sale to fair value through other comprehensive income

The Group elected to present changes in the fair value of its equity investments previously classified as available-for-sale in other comprehensive income, because these investments are held as long-term strategic investments that are not expected to be sold in the short to medium term. As a result, assets with a fair value of ₩95,534 million were reclassified from available-for-sale financial assets to financial assets at fair value through other comprehensive income. In relation to this, ₩2,932 million (after income tax) which was recognized as impairment loss in accordance with Korean IFRS 1109 have been reclassified from retained earnings to accumulated loss on valuation of financial assets at fair value through other comprehensive income. As at January 1, 2018, related accumulated other comprehensive income of ₩50,578 million are not reclassified to profit or loss even though these assets are disposed of. As a result of these differences, other income for the year ended December 31, 2018, were recorded ₩1,290 million less than in previous reporting periods (tax effect of ₩312 million).

(iii) Reclassification of debt instruments from available-for-sale securities to fair value through other comprehensive income.

Listed and unlisted bonds were reclassified from available for sale to fair value through other comprehensive income, as the Group's business model is achieved both by collecting contractual cash flows and selling of these assets. The contractual cash flows of these investments are solely principal and interest. As a result, listed and unlisted bonds with a fair value of ₩10,079 million were reclassified from available-for-sale financial assets to financial assets at fair value through other comprehensive income on January 1, 2018.

(iv) Changes in valuation of investments in associates

As financial instruments invested by associates are reclassified from available-for-sale to fair value through profit or loss, ₩369 million which was recognized as accumulated other comprehensive income (share of other comprehensive income of associates) as at December 31, 2017, has been reclassified as changes in retained earnings from equity method.

(v) Other financial assets

Equity securities held for trading and contingent consideration are all required to be held as fair value through profit or loss under Korean IFRS 1109. There was no impact on the amounts recognized in relation to these assets from the adoption of Korean IFRS 1109.

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(vi) Reclassifications of financial instruments on adoption of Korean IFRS 1109

On the date of initial application, January 1, 2018, the financial instruments of the Group with any reclassifications noted, were as follows:

(in millions of Korean won)	Measurement category		Carrying amount		
	Korean IFRS 1039	Korean IFRS 1109	Korean IFRS 1039	Korean IFRS 1109	Difference ³
Current financial assets					
Trade receivables	Amortized costs	Amortized costs	21,355	22,123	768
Beneficiary securities	Financial assets at fair value through profit or loss	Fair value through profit or loss ²	51,799	51,799	-
Beneficiary securities	Available-for-sale financial assets	Fair value through profit or loss ²	103,810	103,810	-
Cash and cash equivalents	Amortized costs	Amortized costs	60,252	60,252	-
Financial deposits	Amortized costs	Amortized costs	20,688	20,688	-
Other receivables	Amortized costs	Amortized costs	43,396	43,216	(180)
Derivative instruments	Financial assets at fair value through profit or loss ²	Fair value through profit or loss ²	666	666	-
Non-current financial assets					
Equity instruments	Available-for-sale financial assets	Fair value through other comprehensive income ¹	95,534	95,534	-
Beneficiary securities	Available-for-sale financial assets	Fair value through profit or loss ²	55,951	55,951	-
Debt instruments	Available-for-sale financial assets	Fair value through other comprehensive income ¹	10,079	10,079	-
Other receivables	Amortized costs	Amortized costs	9,048	9,048	-
Current financial liabilities					
Derivative instruments	Financial assets at fair value through profit or loss ²	Fair value through profit or loss ²	194	194	-

¹ Financial instruments at fair value through other comprehensive income: Investments in equity and debt instruments

² Financial assets measured at fair value profit or loss

³ The differences noted in this column are the result of applying the new expected credit loss model. The reclassifications of the financial instruments on adoption of Korean IFRS 1109 did not result in any changes to measurements.

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(c) Impairment of financial assets

The Group has two types of financial assets subject to Korean IFRS 1109's new expected credit loss model:

- trade receivables for sales of inventory
- debt investments carried at fair value through other comprehensive income

Upon adoption of Korean IFRS 1109, accounting policies for recognition of impairment have changed. The impact of the change in impairment methodology on the Group's beginning balance of retained earnings is disclosed in the table on (a) above.

(i) Trade receivables

The Group applies the simplified approach to measure the loss allowance at an amount equal to lifetime expected credit losses for trade receivables. This resulted in a decrease of the loss allowance on January 1, 2018, by ₩769 million for trade receivables and an increase by ₩180 million for other receivables.

(ii) Debt instruments

Debt investments at fair value through other comprehensive income are considered to be low risk, and thus the provision for impairment is determined as 12 months expected credit losses.

42.2 Adoption of Korean IFRS 1115 Revenue from Contracts with Customers

The Group has applied Korean IFRS 1115 Revenue from contracts with customers from January 1, 2018. In accordance with the transitional provisions in Korean IFRS 1115, comparative figures have not been restated. The impacts of the changes from the application of Korean IFRS 1115 on the financial statements are as follows.

(a) The impact on the Group's statements of financial position at the date of initial application (January 1, 2018) is as follows:

<i>(in millions of Korean won)</i>	December 31, 2017		January 1, 2018
	Before adjustment¹	Adjusted amount	After adjustment
Cash and cash equivalents	60,252	-	60,252
Trade and other receivables	95,075	-	95,075
Other current assets	160,454	-	160,454
Contract assets ^{2,3,4,5,6}	-	7,076	7,076
Inventories ^{3,5}	16,077	(1,149)	14,928
Investments in associates	17,071	-	17,071
Intangible assets ⁵	35,922	(5,247)	30,675
Other non-current assets	472,836	-	472,836
Total assets	857,687	680	858,367

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Trade payables	8,894	-	8,894
Contract liabilities ^{2,4,6}	-	1,637	1,637
Provisions ^{2,6}	482	(482)	-
Other liabilities ^{4,6}	46,164	(475)	45,689
Other current liabilities	96,179	-	96,179
Deferred tax liabilities	497	-	497
Other non-current liabilities	27,949	-	27,949
Total liabilities	180,165	680	180,845
Retained earnings	579,495	-	579,495
Others	91,684	-	91,684
Non-controlling interests	6,343	-	6,343
Total equity	677,522	-	677,522

¹ Amounts include adjustments arising from adoption of Korean IFRS 1109.

² Accounting for sales with a right of return

When the customer has a right to return the product within a given period, the Group is obliged to refund the purchase price. The Group previously recognized a provision for returns which was measured on a net basis at the margin on the sale. Under Korean IFRS 1115, a contract liability (refund liability) for the expected refunds to customers is recognized. At the same time, a right to recover the product from the customer where the customer exercises the right of return is recognized as a contract asset.

To reflect this change in policy, the Group has reclassified ₩482 million from provisions and recognized contract liabilities of ₩1,087 million and contract assets of ₩605 million on January 1, 2018.

³ Accounting for inventories

In previous reporting periods, the Group recognized goods with return obligation of customer in the contracts as inventories. Under Korean IFRS 1115, the Group recognizes contract assets when goods are transferred to customers and the customer has obligation to pay for the consideration.

To reflect this change on policy, the Group reclassified ₩1,271 million from inventories to contract assets on January 1, 2018.

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⁴ Accounting for customer loyalty program

In previous reporting periods, the consideration received from the sale of goods was allocated to the points and the goods sold using the residual method. Under this method, a part of the consideration equaling the fair value of the points was allocated to the mileage. The residual part of the consideration was allocated to the goods sold. Under Korean IFRS 1115, the total consideration must be allocated to the mileage and goods based on the relative stand-alone selling prices.

As a result of this change on policy, there are no significant changes on unearned income recognized in relation to the customer loyalty program on January 1, 2018.

⁵ Accounting for usable and profitable donation assets

In previous reporting periods, the obligation to transfer goods to be used in providing public services are recognized as usable and profitable donation assets and applied with accounting method related to intangible assets. Under Korean IFRS 1115, the performance obligation is identified separately and a portion of the transaction price is allocated to that performance obligation.

To reflect this change on policy, the Group reclassified intangible assets of ₩5,247 million to contract assets of ₩5,125 million and inventories of ₩122 million, respectively, on January 1, 2018.

⁶ Presentation of contract assets and liabilities

The Group has also voluntarily changed the presentation of line items in the statements of financial position to reflect the terminology of Korean IFRS 1115 and Korean IFRS 1109:

- In relation to the return policy, the Group reclassified expected refunds to customers of ₩1,087 million to contract liabilities and a right to collect the product from the customer when the customer exercises the right of return amounting to ₩605 million to contract assets.
- In relation to the customer loyalty program, the Group reclassified ₩165 million recognized as unearned income to contract liabilities.
- In relation to loyalty income, the Group reclassified ₩310 million recognized as unearned income to contract liabilities.
- In relation to rental and other income, the Group reclassified ₩5,200 million related to services rendered before the agreed timing of payment to contract assets and ₩75 million related to those rendered after the agreed timing of payment to contract liabilities, respectively.
- In relation to usable and profitable donation assets, the Group reclassified ₩5,125 million recognized as intangible assets to contract assets.

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(b) Financial statement line items affected by the adoption of the new rules in the current period are as follows:

Consolidated statement of financial position

<i>(in millions of Korean won)</i>	Reported amount¹	Adjusted amount	Amount before application of Korean IFRS 1115¹
Cash and cash equivalents	58,508	-	58,508
Trade and other receivables	88,563	(34)	88,529
Other current assets	135,426	-	135,426
Contract assets	5,723	(5,723)	-
Inventories	14,805	1,074	15,879
Investments in associates	34,124	-	34,124
Intangible assets	66,033	3,956	69,989
Other non-current assets	425,538	-	425,538
Deferred tax assets	1,608	-	1,608
Total assets	830,328	(727)	829,601
Trade payables	6,569	-	6,569
Contract liabilities	1,755	(1,755)	-
Provisions	-	468	468
Other liabilities	51,782	560	52,342
Other current liabilities	92,279	-	92,279
Other non-current liabilities	61,117	-	61,117
Total liabilities	213,502	(727)	212,775
Retained earnings	575,667	-	575,667
Others	36,994	-	36,994
Non-controlling interests	4,165	-	4,165
Total equity	616,826	-	616,826

¹ Amounts include adjustments arising from adoption of Korean IFRS 1109.

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Consolidated statement of profit or loss and comprehensive income

<i>(in millions of Korean won)</i>	Reported amount¹	Adjusted amount	Amount before application of Korean IFRS 1115¹
Sales	763,142	2,288	765,430
Cost of sales	626,714	1,299	628,013
Selling and administrative expenses	109,343	989	110,332
Impairment loss	1,478	-	1,478
Other income	19,908	-	19,908
Other expenses	24,311	-	24,311
Other impairment loss	61	-	61
Share of profit or associates	4,308	-	4,308
Interest income	3,783	-	3,783
Other finance income	286	-	286
Finance costs	1,402	-	1,402
Income tax expense	8,893	-	8,893
Profit for the year	19,225	-	19,225
Total comprehensive income for the year	5,287	-	5,287

¹ Amounts include adjustments arising from adoption of Korean IFRS 1109.

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Consolidated statement of cash flows

<i>(in millions of Korean won)</i>	Reported amount¹	Adjusted amount	Amount before application of Korean IFRS 1115¹
Profit for the year	19,225	-	19,225
Adjustments for:			
Dividends received	5,265	-	5,265
Interest received	2,578	-	2,578
Interest paid	(1,050)	-	(1,050)
Income tax paid	(10,745)	-	(10,745)
Others	52,320	(1,491)	50,829
Changes in operating assets and liabilities:	(3,412)	1,491	(1,921)
Inventories	(2,896)	(312)	(3,208)
Trade receivables	5,179	-	5,179
Trade payables	(2,289)	-	(2,289)
Contract assets	(1,815)	1,815	-
Contract liabilities	116	(116)	-
Sales return provision	-	(15)	(15)
Unearned income	(843)	119	(724)
Others	(864)	-	(864)
Cash generated from operations	<u>64,181</u>	<u>-</u>	<u>64,181</u>

¹ Amounts include adjustments arising from adoption of Korean IFRS 1109.

43. Business Combination

In June 2016, the Group acquired 13% of the issued share capital of KnowRe Americas, Inc. On August 9, 2018, the Group acquired an additional 65% of the share capital and obtained control of KnowRe Americas, Inc., a developer and distributor of software operating in the US and others. The acquisition is expected to increase the Group's ability to develop digital contents and distinctive market share in this industry by turning into smart learnings system.

The goodwill of ₩17,001 million arising from the acquisition is attributable to synergy effects expected from combining the operations of the Group and KnowRe Americas, Inc. and the acquired customer relationships. The recognized goodwill will not be deductible for tax purpose.

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Details of the purchase consideration, the assets and liabilities recognized as a result of the acquisition, and fair value of the non-controlling interest at the acquisition date are as follows:

<i>(in millions of Korean won)</i>	Amount
Purchase consideration	
Cash	17,027
Non-trade payables ¹	1,915
Total purchase consideration	18,942
Fair value of equity interest in KnowRe Americas, Inc. held before the business combination	3,742
Total consideration	22,684
Recognized amounts of identifiable assets acquired and liabilities assumed	
Cash	97
Financial deposits	42
Financial assets at fair value through profit or loss	3
Property, plant and equipment	305
Intangible assets ²	10,117
Trade and other receivables	296
Trade and other payables	(2,122)
Net defined benefit liability	(661)
Borrowings	(804)
Net identifiable assets acquired	7,273
Non-controlling interest ³	(1,590)
Goodwill	17,001
	22,684
Acquisition-related costs (selling and administrative expenses)	184

¹ Part of the consideration for KnowRe Americas, Inc. is pledged as collateral and have not been paid.

² Amounts include tax effects for the fair value of the acquired identifiable intangible assets.

³ The non-controlling interest was measured using the proportionate amount of the fair value of identifiable net assets.

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The fair value of the non-controlling interest in KnowRe Americas, Inc., an unlisted company, was estimated by applying an income approach. The fair value estimates are based on the significant unobservable market inputs and the key assumptions include followings:

- An assumed discount rate of 11.5%
- Assumed financial multiples of companies deemed to be similar to KnowRe Americas, Inc.

The core technology of the target company estimated future cash flows by considering the obsolescence of the technology after the consolidated period.

The revenue included in the consolidated statement of comprehensive income since the acquisition date, contributed by KnowRe Americas, Inc. was ₩2,067 million. KnowRe Americas, Inc. also contributed loss of ₩782 million over the same period.

Had KnowRe Americas, Inc. been consolidated from January 1, 2018, the consolidated statement of comprehensive income would have included a revenue of ₩3,364 million and loss of ₩3,915 million.

44. Approval of Financial Statements

The issuance of the consolidated financial statements as at December 31, 2018 was approved by the Board of Directors on March 7, 2019, which is subject to change with the approval of the shareholders at their annual shareholders' meeting.