

Balance sheet disclosures

12. Intangible assets

CHANGES IN INTANGIBLE ASSETS IN THE PERIOD JANUARY 1 TO DECEMBER 31, 2016

€ million	Brand names	Goodwill	Capitalized development costs for products under development	Capitalized development costs for products currently in use	Other intangible assets	Total
Cost						
Balance at Jan. 1, 2016	17,062	23,646	6,781	23,681	8,529	79,699
Foreign exchange differences	-37	-86	-12	-90	137	-89
Changes in consolidated Group	-	9	-	-	29	37
Additions	-	-	4,857	893	385	6,135
Transfers	-	-	-4,324	4,324	12	12
Disposals	-	10	17	1,442	456	1,925
Balance at Dec. 31, 2016	17,024	23,559	7,285	27,366	8,637	83,870
Amortization and impairment						
Balance at Jan. 1, 2016	76	-	37	12,968	5,472	18,553
Foreign exchange differences	5	0	0	-80	84	9
Changes in consolidated Group	-	-	-	-	7	7
Additions to cumulative amortization	3	-	-	3,278	906	4,187
Additions to cumulative impairment losses	-	10	16	293	55	375
Transfers	-	-	0	-	-3	-3
Disposals	-	10	14	1,419	412	1,855
Reversal of impairment losses	-	-	-	1	0	1
Balance at Dec. 31, 2016	84	0	39	15,040	6,109	21,271
Carrying amount at Dec. 31, 2016	16,941	23,558	7,246	12,326	2,527	62,599

CHANGES IN INTANGIBLE ASSETS IN THE PERIOD JANUARY 1 TO DECEMBER 31, 2017

€ million	Brand names	Goodwill	Capitalized development costs for products under development	Capitalized development costs for products currently in use	Other intangible assets	Total
Cost						
Balance at Jan. 1, 2017	17,024	23,559	7,285	27,366	8,637	83,870
Foreign exchange differences	–30	–91	–44	–183	–192	–539
Changes in consolidated Group	–	–18	–	–	–112	–130
Additions	–	–	4,080	1,180	528	5,788
Transfers	–	–	–4,197	4,197	–7	–7
Disposals	–	7	10	3,607	266	3,890
Balance at Dec. 31, 2017	16,995	23,443	7,115	28,952	8,588	85,093
Amortization and impairment						
Balance at Jan. 1, 2017	84	0	39	15,040	6,109	21,271
Foreign exchange differences	–3	0	0	–122	–138	–263
Changes in consolidated Group	–	0	–	–	–84	–84
Additions to cumulative amortization	3	–	–	3,345	831	4,178
Additions to cumulative impairment losses	–	7	57	332	1	397
Transfers	–	–	–	–	2	2
Disposals	–	7	–	3,595	226	3,827
Reversal of impairment losses	–	–	–	–	–	–
Balance at Dec. 31, 2017	83	0	95	14,999	6,496	21,674
Carrying amount at Dec. 31, 2017	16,911	23,442	7,020	13,953	2,093	63,419

Other intangible assets comprise in particular concessions, purchased customer lists and dealer relationships, industrial and similar rights, and licenses in such rights and assets.

The allocation of the brand names and goodwill to the operating segments is shown in the following table:

€ million	2017	2016
Brand names by operating segment		
Porsche	13,823	13,823
Scania Vehicles and Services	990	1,017
MAN Truck & Bus	1,127	1,127
MAN Diesel & Turbo	415	415
Ducati	404	404
Other	153	155
	16,911	16,941
Goodwill by operating segment		
Porsche	18,825	18,825
Scania Vehicles and Services	2,866	2,947
MAN Truck & Bus	595	608
MAN Diesel & Turbo	268	249
Ducati	290	290
ŠKODA	159	150
Porsche Holding Salzburg	151	197
Other	289	293
	23,442	23,558

The impairment test for recognized goodwill is based on value in use. Recoverability is not affected by a variation in the growth forecast with respect to the perpetual annuity or in the discount rate of +/-0.5 percentage points.

Research and development costs developed as follows:

€ million	2017	2016	%
Total research and development costs	13,141	13,672	-3.9
of which: capitalized development costs	5,260	5,750	-8.5
Capitalization ratio in %	40.0	42.1	-
Amortization of capitalized development costs	3,734	3,587	4.1
Research and development costs recognized in profit or loss	11,614	11,509	0.9

13. Property, plant and equipment

CHANGES IN PROPERTY, PLANT AND EQUIPMENT IN THE PERIOD JANUARY 1 TO DECEMBER 31, 2016

€ million	Land, land rights and buildings, including buildings on third-party land	Technical equipment and machinery	Other equipment, operating and office equipment	Payments on account and assets under construction	Total
Cost					
Balance at Jan. 1, 2016	31,036	39,836	58,243	7,717	136,832
Foreign exchange differences	228	429	498	51	1,206
Changes in consolidated Group	42	26	30	1	98
Additions	742	1,843	5,150	5,025	12,760
Transfers	1,639	2,296	1,879	-5,758	55
Disposals	154	1,076	1,203	28	2,461
Balance at Dec. 31, 2016	33,534	43,353	64,595	7,008	148,490
Depreciation and impairment					
Balance at Jan. 1, 2016	12,789	28,148	45,645	79	86,661
Foreign exchange differences	90	305	397	5	796
Changes in consolidated Group	6	14	16	-	36
Additions to cumulative depreciation	1,000	2,918	4,707	-	8,625
Additions to cumulative impairment losses	67	143	291	8	508
Transfers	17	21	15	-46	7
Disposals	81	1,011	1,071	0	2,164
Reversal of impairment losses	-	7	0	7	13
Balance at Dec. 31, 2016	13,887	30,531	49,999	39	94,456
Carrying amount at Dec. 31, 2016	19,647	12,822	14,596	6,969	54,033
of which assets leased under finance leases					
Carrying amount at Dec. 31, 2016	318	9	45	-	372

Future finance lease payments due, and their present values, are shown in the following table:

€ million	2017	2018 – 2021	from 2022	Total
Finance lease payments	79	306	480	865
Interest component of finance lease payments	26	100	200	326
Carrying amount of liabilities	53	206	279	539

CHANGES IN PROPERTY, PLANT AND EQUIPMENT IN THE PERIOD JANUARY 1 TO DECEMBER 31, 2017

€ million	Land, land rights and buildings, including buildings on third-party land	Technical equipment and machinery	Other equipment, operating and office equipment	Payments on account and assets under construction	Total
Cost					
Balance at Jan. 1, 2017	33,534	43,353	64,595	7,008	148,490
Foreign exchange differences	-440	-824	-1,056	-152	-2,473
Changes in consolidated Group	-303	-71	-117	-11	-501
Additions	630	1,355	5,056	5,474	12,516
Transfers	1,063	2,509	1,829	-5,411	-11
Disposals	149	873	1,399	31	2,452
Balance at Dec. 31, 2017	34,335	45,450	68,909	6,876	155,569
Depreciation and impairment					
Balance at Jan. 1, 2017	13,887	30,531	49,999	39	94,456
Foreign exchange differences	-153	-560	-790	-5	-1,508
Changes in consolidated Group	-117	-62	-80	-	-259
Additions to cumulative depreciation	1,058	3,211	5,152	-	9,421
Additions to cumulative impairment losses	3	-9	254	55	303
Transfers	14	-16	-1	0	-3
Disposals	71	807	1,183	7	2,068
Reversal of impairment losses	0	2	0	13	15
Balance at Dec. 31, 2017	14,621	32,286	53,352	69	100,327
Carrying amount at Dec. 31, 2017	19,714	13,164	15,557	6,807	55,243
of which assets leased under finance leases					
Carrying amount at Dec. 31, 2017	286	6	46	-	339

Options to purchase buildings and plant leased under the terms of finance leases exist in most cases, and are also expected to be exercised.

Future finance lease payments due, and their present values, are shown in the following table:

€ million	2018	2019 – 2022	from 2023	Total
Finance lease payments	67	263	390	721
Interest component of finance lease payments	16	87	139	242
Carrying amount of liabilities	51	176	252	479

For assets leased under operating leases, payments recognized in the income statement amounted to €1,449 million (previous year: €1,498 million). With respect to internally used assets, €1,302 million (previous year: €1,320 million) of this figure is attributable to minimum lease payments and €55 million (previous year: €60 million) to contingent lease payments. The payments of €92 million (previous year: €118 million) under subleases primarily relate to minimum lease payments.

Government grants of €135 million (previous year: €218 million) were deducted from the cost of property, plant and equipment and noncash benefits received amounting to €12 million (previous year: €12 million) were not capitalized as the cost of assets.

Real property liens of €916 million (previous year: €762 million) are pledged as collateral for financial liabilities related to land and buildings.

14. Lease assets and investment property

CHANGES IN LEASE ASSETS AND INVESTMENT PROPERTY IN THE PERIOD JANUARY 1 TO DECEMBER 31, 2016

€ million	Leasing assets	Investment property	Total
Cost			
Balance at Jan. 1, 2016	45,118	761	45,879
Foreign exchange differences	321	12	333
Changes in consolidated Group	64	66	130
Additions	20,628	33	20,661
Transfers	3	-70	-67
Disposals	14,652	21	14,673
Balance at Dec. 31, 2016	51,483	780	52,262
Depreciation and impairment			
Balance at Jan. 1, 2016	11,945	257	12,202
Foreign exchange differences	74	2	76
Changes in consolidated Group	15	1	16
Additions to cumulative depreciation	6,743	17	6,760
Additions to cumulative impairment losses	455	0	455
Transfers	0	-4	-4
Disposals	6,097	4	6,101
Reversal of impairment losses	92	-	92
Balance at Dec. 31, 2016	13,044	268	13,312
Carrying amount at Dec. 31, 2016	38,439	512	38,950

The following payments from noncancelable leases and rental agreements were expected to be received over the coming years:

€ million	2017	2018 – 2021	from 2022	Total
Lease payments	3,649	4,759	56	8,464

CHANGES IN LEASE ASSETS AND INVESTMENT PROPERTY IN THE PERIOD JANUARY 1 TO DECEMBER 31, 2017

€ million	Leasing assets	Investment property	Total
Cost			
Balance at Jan. 1, 2017	51,483	780	52,262
Foreign exchange differences	-3,093	-36	-3,129
Changes in consolidated Group	-873	-	-873
Additions	21,319	18	21,336
Transfers	6	12	18
Disposals	16,616	26	16,641
Balance at Dec. 31, 2017	52,226	748	52,973
Depreciation and impairment			
Balance at Jan. 1, 2017	13,044	268	13,312
Foreign exchange differences	-803	-5	-808
Changes in consolidated Group	-228	0	-228
Additions to cumulative depreciation	7,327	15	7,343
Additions to cumulative impairment losses	448	3	451
Transfers	0	1	1
Disposals	6,775	4	6,779
Reversal of impairment losses	41	-	41
Balance at Dec. 31, 2017	12,972	279	13,251
Carrying amount at Dec. 31, 2017	39,254	468	39,722

Lease assets include assets leased out under the terms of operating leases and assets covered by long-term buy-back agreements.

Investment property includes apartments rented out and leased dealerships with a fair value of €993 million (previous year: €1,150 million). Fair value is estimated using an investment method based on internal calculations (Level 3 of the fair value hierarchy). Operating expenses of €52 million (previous year: €46 million) were incurred for the maintenance of investment property in use. Expenses of €3 million (previous year: €1 million) were incurred for unused investment property.

The following payments from noncancelable leases and rental agreements are expected to be received over the coming years:

€ million	2018	2019 – 2022	from 2023	Total
Lease payments	3,392	4,675	46	8,112

15. Equity-accounted investments and other equity investments

CHANGES IN EQUITY-ACCOUNTED INVESTMENTS AND OTHER EQUITY INVESTMENTS
IN THE PERIOD JANUARY 1 TO DECEMBER 31, 2016

€ million	Equity-accounted investments	Other equity investments	Total
Gross carrying amount at Jan. 1, 2016	10,985	1,333	12,318
Foreign exchange differences	-100	-1	-101
Changes in consolidated Group	-11	-103	-114
Additions	525	191	716
Transfers	-	-	-
Disposals	2,193	3	2,197
Changes recognized in profit or loss	3,250	-	3,250
Dividends	-3,598	-	-3,598
Other changes recognized in other comprehensive income	-131	-	-131
Balance at Dec. 31, 2016	8,727	1,417	10,143
Impairment losses			
Balance at Jan. 1, 2016	81	358	439
Foreign exchange differences	-1	1	0
Changes in consolidated Group	-	-57	-57
Additions	30	120	150
Transfers	-	-	-
Disposals	-	1	1
Reversal of impairment losses	-	0	0
Balance at Dec. 31, 2016	110	420	531
Carrying amount at Dec. 31, 2016	8,616	996	9,613

**CHANGES IN EQUITY-ACCOUNTED INVESTMENTS AND OTHER EQUITY INVESTMENTS
IN THE PERIOD JANUARY 1 TO DECEMBER 31, 2017**

€ million	Equity-accounted investments	Other equity investments	Total
Gross carrying amount at Jan. 1, 2017	8,727	1,417	10,143
Foreign exchange differences	-129	-17	-146
Changes in consolidated Group	-13	-90	-104
Additions	348	519	867
Transfers	-	0	0
Held for sale	-86	-	-86
Disposals	7	34	40
Changes recognized in profit or loss	3,495	-	3,495
Dividends	-3,640	-	-3,640
Other changes recognized in other comprehensive income	-251	30	-221
Balance at Dec. 31, 2017	8,443	1,825	10,268
Impairment losses			
Balance at Jan. 1, 2017	110	420	531
Foreign exchange differences	-1	-3	-4
Changes in consolidated Group	-	-15	-15
Additions	129	129	258
Transfers	-	-	-
Disposals	-	24	24
Reversal of impairment losses	-	1	1
Balance at Dec. 31, 2017	238	507	745
Carrying amount at Dec. 31, 2017	8,205	1,318	9,523

Equity-accounted investments include joint ventures in the amount of €6,459 million (previous year: €7,068 million) and associates in the amount of €1,746 million (previous year: €1,548 million).

The additions of equity-accounted investments are mainly attributable to the acquisition of the investment in Navistar in the amount of €0.3 billion (previous year: acquisition of investment in Gett and measurement of shares in GMH at the selling price). In the previous year, the disposals resulted from the divestment of LeasePlan by GMH. Further details can be found in the disclosures in the section entitled "Basis of consolidation".

Of the other changes recognized in other comprehensive income, €-249 million (previous year: €-132 million) is attributable to joint ventures and €-2 million (previous year: €1 million) to associates. They are mainly the result of foreign exchange differences in the amount of €-327 million (previous year: €-156 million), pension plan remeasurements in the amount of €112 million (previous year: €-1 million) and losses on the fair value measurement of cash flow hedges in the amount of €-30 million (previous year: €33 million).

16. Noncurrent and current financial services receivables

€ million	CARRYING AMOUNT		FAIR VALUE		CARRYING AMOUNT		FAIR VALUE	
	Current	Noncurrent	Dec. 31, 2017	Dec. 31, 2017	Current	Noncurrent	Dec. 31, 2016	Dec. 31, 2016
Receivables from financing business								
Customer financing ¹	19,841	40,899	60,739	61,763	19,630	38,907	58,537	60,119
Dealer financing	17,033	2,194	19,227	19,200	15,531	2,108	17,639	17,626
Direct banking	269	4	272	272	254	2	256	256
	37,142	43,096	80,239	81,236	35,415	41,018	76,433	78,002
Receivables from operating leases	193	–	193	193	197	–	197	197
Receivables from finance leases ¹	15,810	30,153	45,963	46,766	14,060	27,384	41,445	42,240
	53,145	73,249	126,395	128,195	49,673	68,402	118,075	120,438

1 Prior-year figures adjusted.

The receivables from customer financing and finance leases contained in financial services receivables of €126.4 billion (previous year: €118.1 billion) decreased by €31 million (previous year: €7 million) as a result of a fair value adjustment from portfolio hedging.

The receivables from customer and dealer financing are secured by vehicles or real property liens. Of the receivables, €287 million (previous year: €251 million) was furnished as collateral for financial liabilities and contingent liabilities.

The receivables from dealer financing include €51 million (previous year: €51 million) receivable from unconsolidated affiliated companies.

In the consolidated financial statements, some of the receivables previously reported as customer financing in individual markets are now presented as receivables from finance leases. The prior-year figures have been restated, resulting in a €12.2 billion reduction in receivables from customer financing and a corresponding €12.2 billion increase in receivables from finance leases as of December 31, 2016. The adjustments as of January 1, 2016 amounted to €11.9 billion. In addition, the expected cash flows from finance leases have been adjusted accordingly.

The receivables from finance leases – almost entirely in respect of vehicles – were or are expected to generate the following cash flows as of December 31, 2016 and December 31, 2017:

€ million	2017	2018 – 2021	from 2022	Total
Future payments from finance lease receivables	15,117	29,352	137	44,605
Unearned finance income from finance leases (discounting)	–1,058	–2,094	–11	–3,162
Present value of minimum lease payments outstanding at the reporting date	14,059	27,258	126	41,443

€ million	2018	2019 – 2022	from 2023	Total
Future payments from finance lease receivables	16,952	32,280	145	49,377
Unearned finance income from finance leases (discounting)	–1,142	–2,261	–11	–3,414
Present value of minimum lease payments outstanding at the reporting date	15,810	30,018	135	45,963

Accumulated valuation allowances for uncollectible minimum lease payments receivable amount to €116 million (previous year: €94 million).

17. Noncurrent and current other financial assets

€ million	CARRYING AMOUNT			CARRYING AMOUNT		
	Current	Noncurrent	Dec. 31, 2017	Current	Noncurrent	Dec. 31, 2016
Positive fair value of derivatives	2,845	4,091	6,936	2,317	3,274	5,591
Marketable securities	–	3	3	–	46	46
Receivables from loans, bonds, profit participation rights (excluding interest)	5,367	2,531	7,898	5,352	2,338	7,690
Miscellaneous financial assets	3,786	1,829	5,615	4,175	2,598	6,773
	11,998	8,455	20,453	11,844	8,256	20,099

Other financial assets include receivables from related parties of €7.7 billion (previous year: €6.9 billion). Other financial assets and noncurrent marketable securities amounting to €1,819 million (previous year: €1,870 million) were furnished as collateral for financial liabilities and contingent liabilities. There is no original right of disposal or pledge for the furnished collateral on the part of the collateral taker.

In addition, the miscellaneous financial assets include cash and cash equivalents that serve as collateral (mainly under asset-backed securities transactions).

The positive fair values of derivatives relate to the following items:

€ million	Dec. 31, 2017	Dec. 31, 2016
Transactions for hedging		
foreign currency risk from assets using fair value hedges	228	239
foreign currency risk from liabilities using fair value hedges	108	186
interest rate risk using fair value hedges	400	592
interest rate risk using cash flow hedges	86	65
foreign currency and price risk from future cash flows (cash flow hedges)	4,401	3,032
Hedging transactions	5,224	4,114
Assets related to derivatives not included in hedging relationships	1,712	1,477
	6,936	5,591

The positive fair value of transactions for hedging price risk from future cash flows (cash flow hedges) amounted to €– million (previous year: €36 million).

Positive fair values of €17 million (previous year: €1 million) were recognized from transactions for hedging interest rate risk (fair value hedges) used in portfolio hedges.

Further details on derivative financial instruments as a whole are given in the section entitled “Financial risk management and financial instruments”.

18. Noncurrent and current other receivables

€ million	CARRYING AMOUNT			CARRYING AMOUNT		
	Current	Noncurrent	Dec. 31, 2017	Current	Noncurrent	Dec. 31, 2016
Other recoverable income taxes	3,881	896	4,777	4,037	841	4,878
Miscellaneous receivables	1,465	1,356	2,821	1,093	1,169	2,261
	5,346	2,252	7,598	5,130	2,009	7,139

Miscellaneous receivables include assets to fund post-employment benefits in the amount of €64 million (previous year: €46 million). This item also includes the share of the technical provisions attributable to reinsurers amounting to €73 million (previous year: €73 million).

Current other receivables are predominantly non-interest-bearing.

19. Tax assets

€ million	CARRYING AMOUNT			CARRYING AMOUNT		
	Current	Noncurrent	Dec. 31, 2017	Current	Noncurrent	Dec. 31, 2016
Deferred tax assets	–	9,810	9,810	–	9,756	9,756
Tax receivables	1,339	407	1,746	1,126	392	1,518
	1,339	10,217	11,557	1,126	10,148	11,274

€7,456 million (previous year: €6,294 million) of the deferred tax assets are due within one year.

20. Inventories

€ million	Dec. 31, 2017	Dec. 31, 2016
Raw materials, consumables and supplies	4,858	4,396
Work in progress	4,143	4,408
Finished goods and purchased merchandise	26,514	25,719
Current lease assets	4,774	4,276
Prepayments	127	178
	40,415	38,978

At the same time as the relevant revenue was recognized, inventories in the amount of €173 billion (previous year: €166 billion) were included in cost of sales. Valuation allowances (excluding lease assets) recognized as expenses in the reporting period amounted to €878 million (previous year: €1,310 million). Vehicles amounting to €271 million (previous year: €263 million) were assigned as collateral for partial retirement obligations.

21. Trade receivables

€ million	Dec. 31, 2017	Dec. 31, 2016
Trade receivables from		
third parties	9,667	9,110
unconsolidated subsidiaries	220	179
joint ventures	3,341	2,847
associates	44	47
other investees and investors	86	4
	13,357	12,187

The fair values of the trade receivables correspond to the carrying amounts.

The trade receivables include receivables from construction contracts accounted for using the percentage of completion (PoC) method. These are calculated as follows:

€ million	Dec. 31, 2017	Dec. 31, 2016
Contract costs and proportionate contract profit/loss of construction contracts	1,122	955
Progress billings	-38	-91
Exchange rate effects	-3	2
PoC receivables, gross	1,081	865
Prepayments received	-739	-652
PoC receivables, net	342	213

Other payments received on account of construction contracts in the amount of €270 million (previous year: €225 million), for which no construction costs have yet been incurred, are recognized under other liabilities.

22. Marketable securities

The marketable securities serve to safeguard liquidity. Marketable securities are quoted, mainly short-term fixed-income securities and shares allocated to the available-for-sale financial assets category.

23. Cash, cash equivalents and time deposits

€ million	Dec. 31, 2017	Dec. 31, 2016
Bank balances	18,343	19,093
Checks, cash-in-hand, bills and call deposits	114	171
	18,457	19,265

Bank balances are held at various banks in different currencies and include time deposits, for example.

24. Equity

The subscribed capital of Volkswagen AG is composed of no-par value bearer shares with a notional value of €2.56. As well as ordinary shares, there are preferred shares that entitle the bearer to a €0.06 higher dividend than ordinary shares, but do not carry voting rights.

Authorized capital of up to €110 million created by a resolution of the Annual General Meeting on April 19, 2012 for the issue of new ordinary bearer shares or preferred shares expired on April 18, 2017. Apart from an amount of €83 million, the authorized capital was utilized.

The Annual General Meeting on May 5, 2015 resolved to create authorized capital of up to €179 million, expiring on May 4, 2020, to issue new preferred bearer shares.

In June 2017, Volkswagen AG placed unsecured subordinated hybrid notes with an aggregate principal amount of €3.5 billion via a subsidiary, Volkswagen International Finance N.V. Amsterdam, the Netherlands (VIF). The perpetual hybrid notes were issued in two tranches and can be called by VIF. The first call date for the first tranche (€1.5 billion and a coupon of 2.700%) is after 5.5 years, and the first call date for the second tranche (€2.0 billion and a coupon of 3.875%) is after ten years. Interest may be accumulated depending on whether a dividend is paid to Volkswagen AG shareholders. Under IAS 32, the hybrid notes must be classified in their entirety as equity. The capital raised was recognized in equity, less a discount and transaction costs and net of deferred taxes. The interest payments payable to the noteholders will be recognized directly in equity, net of income taxes.

CHANGE IN ORDINARY AND PREFERRED SHARES AND SUBSCRIBED CAPITAL

	SHARES		€	
	2017	2016	2017	2016
Balance at January 1	501,295,263	501,295,263	1,283,315,873	1,283,315,873
Capital increase	–	–	–	–
Balance at December 31	501,295,263	501,295,263	1,283,315,873	1,283,315,873

The capital reserves comprise the share premium totaling €14,225 million (previous year: €14,225 million) from capital increases, the share premium of €219 million from the issuance of bonds with warrants and an amount of €107 million appropriated on the basis of the capital reduction implemented in 2006. No amounts were withdrawn from the capital reserves.

DIVIDEND PROPOSAL

In accordance with section 58(2) of the Aktiengesetz (AktG – German Stock Corporation Act), the dividend payment by Volkswagen AG is based on the net retained profits reported in the annual financial statements of Volkswagen AG prepared in accordance with the German Commercial Code. Based on these annual financial statements of Volkswagen AG, net retained profits of €2,181 million are eligible for distribution following the transfer of €2,174 million to the revenue reserves. The Board of Management and Supervisory Board will propose to the Annual General Meeting that a total dividend of €1,967 million, i.e. €3.90 per ordinary share and €3.96 per preferred share, be paid from the net retained profits. Shareholders are not entitled to a dividend payment until it has been resolved by the Annual General Meeting.

A dividend of €2.00 per ordinary share and €2.06 per preferred share was distributed in fiscal year 2017.

NONCONTROLLING INTERESTS

As of December 31, 2017, total noncontrolling interests amounted to €229 million (previous year: €221 million). The noncontrolling interests in equity are attributable primarily to shareholders of RENK AG and AUDI AG and are immaterial individually and in the aggregate.

25. Noncurrent and current financial liabilities

The details of noncurrent and current financial liabilities are presented in the following table:

€ million	CARRYING AMOUNT			CARRYING AMOUNT		
	Current	Noncurrent	Dec. 31, 2017	Current	Noncurrent	Dec. 31, 2016
Bonds	14,146	48,971	63,118	18,831	33,191	52,022
Commercial paper and notes	22,506	13,399	35,905	23,173	18,004	41,178
Liabilities to banks	14,487	15,357	29,844	14,180	10,816	24,996
Deposits business	29,291	2,114	31,405	31,019	2,759	33,779
Loans and miscellaneous liabilities	1,363	1,358	2,721	1,204	1,102	2,306
Bills of exchange	–	–	–	–	–	–
Finance lease liabilities	51	428	479	53	486	539
	81,844	81,628	163,472	88,461	66,358	154,819

26. Noncurrent and current other financial liabilities

€ million	CARRYING AMOUNT			CARRYING AMOUNT		
	Current	Noncurrent	Dec. 31, 2017	Current	Noncurrent	Dec. 31, 2016
Negative fair values of derivative financial instruments	1,212	1,034	2,246	3,428	2,630	6,058
Interest payable	570	44	614	581	48	630
Miscellaneous financial liabilities	6,788	1,586	8,374	5,428	1,810	7,239
	8,570	2,665	11,234	9,438	4,488	13,926

The negative fair values of derivatives relate to the following items:

€ million	Dec. 31, 2017	Dec. 31, 2016
Transactions for hedging		
foreign currency risk from assets using fair value hedges	58	74
foreign currency risk from liabilities using fair value hedges	19	286
interest rate risk using fair value hedges	64	147
interest rate risk using cash flow hedges	24	11
foreign currency and price risk from future cash flows (cash flow hedges)	542	4,135
Hedging transactions	706	4,652
Liabilities related to derivatives not included in hedging relationships	1,540	1,406
	2,246	6,058

The negative fair value of transactions for hedging price risk from future cash flows (cash flow hedges) amounted to €- million (previous year: €21 million).

Negative fair values of €22million (previous year: €85million) were recognized from transactions for hedging interest rate risk (fair value hedges) used in portfolio hedges.

Further details on derivative financial instruments as a whole are given in the section entitled "Financial risk management and financial instruments".

27. Noncurrent and current other liabilities

€ million	CARRYING AMOUNT			CARRYING AMOUNT		
	Current	Noncurrent	Dec. 31, 2017	Current	Noncurrent	Dec. 31, 2016
Payments received on account of orders	4,084	694	4,779	4,042	572	4,614
Liabilities relating to						
other taxes	2,301	249	2,550	2,611	204	2,815
social security	564	38	601	536	35	571
wages and salaries	4,941	844	5,785	4,495	750	5,245
Miscellaneous liabilities	4,071	4,375	8,446	3,777	4,103	7,880
	15,961	6,199	22,160	15,461	5,664	21,125

28. Tax liabilities

€ million	CARRYING AMOUNT			CARRYING AMOUNT		
	Current	Noncurrent	Dec. 31, 2017	Current	Noncurrent	Dec. 31, 2016
Deferred tax liabilities	–	5,636	5,636	–	4,745	4,745
Provisions for taxes	1,397	3,030	4,427	1,301	3,556	4,857
Tax payables	430	–	430	500	–	500
	1,827	8,666	10,492	1,801	8,301	10,102

€320 million (previous year: €328 million) of the deferred tax liabilities are due within one year.

29. Provisions for pensions and other post-employment benefits

Provisions for pensions are recognized for commitments in the form of retirement, invalidity and dependents' benefits payable under pension plans. The benefits provided by the Group vary according to the legal, tax and economic circumstances of the country concerned, and usually depend on the length of service and remuneration of the employees.

Volkswagen Group companies provide occupational pensions under both defined contribution and defined benefit plans. In the case of defined contribution plans, the Company makes contributions to state or private pension schemes based on legal or contractual requirements, or on a voluntary basis. Once the contributions have been paid, there are no further obligations for the Volkswagen Group. Current contributions are recognized as pension expenses of the period concerned. In 2017, they amounted to a total of €2,214 million (previous year: €2,084 million) in the Volkswagen Group. Of this figure, contributions to the compulsory state pension system in Germany amounted to €1,634 million (previous year: €1,552 million).

In the case of defined benefit plans, a distinction is made between pensions funded by provisions and externally funded plans.

The pension provisions for defined benefits are measured by independent actuaries using the internationally accepted projected unit credit method in accordance with IAS 19, under which the future obligations are measured on the basis of the ratable benefit entitlements earned as of the balance sheet date. Measurement reflects actuarial assumptions as to discount rates, salary and pension trends, employee turnover rates, longevity and increases in healthcare costs, which were determined for each Group company depending on the economic environment. Remeasurements arise from differences between what has actually occurred and the prior-year assumptions as well as from changes in assumptions. They are recognized in other comprehensive income, net of deferred taxes, in the period in which they arise.

Multi-employer pension plans exist in the Volkswagen Group in the United Kingdom, Switzerland, Sweden and the Netherlands. These plans are defined benefit plans. A small proportion of them are accounted for as defined contribution plans, as the Volkswagen Group is not authorized to receive the information required in order to account for them as defined benefit plans. Under the terms of the multi-employer plans, the Volkswagen Group is not liable for the obligations of the other employers. In the event of its withdrawal from the plans or their winding-up, the proportionate share of the surplus of assets attributable to the Volkswagen Group will be credited or the proportionate share of the deficit attributable to the Volkswagen Group will have to be funded. In the case of the defined benefit plans accounted for as defined contribution plans, the Volkswagen Group's share of the obligations represents a small proportion of the total obligations. No probable significant risks arising from multi-employer defined benefit pension plans that are accounted for as defined contribution plans have been identified. The expected contributions to those plans will amount to €25 million for fiscal year 2018.

Owing to their benefit character, the obligations of the US Group companies in respect of post-employment medical care in particular are also carried under provisions for pensions and other post-employment benefits. These post-employment benefit provisions take into account the expected long-term rise in the cost of health-care. In fiscal year 2017, €17 million (previous year: €19 million) was recognized as an expense for health care costs. The related carrying amount as of December 31, 2017 was €210 million (previous year: €232 million).

The following amounts were recognized in the balance sheet for defined benefit plans:

€ million	Dec. 31, 2017	Dec. 31, 2016
Present value of funded obligations	15,605	15,104
Fair value of plan assets	11,192	10,749
Funded status (net)	4,413	4,355
Present value of unfunded obligations	28,224	28,585
Amount not recognized as an asset because of the ceiling in IAS 19	29	26
Net liability recognized in the balance sheet	32,666	32,967
of which provisions for pensions	32,730	33,012
of which other assets	64	46

SIGNIFICANT PENSION ARRANGEMENTS IN THE VOLKSWAGEN GROUP

For the period after their active working life, the Volkswagen Group offers its employees benefits under attractive, modern occupational pension arrangements. Most of the arrangements in the Volkswagen Group are pension plans for employees in Germany classified as defined benefit plans under IAS 19. The majority of these obligations are funded solely by recognized provisions. These plans are now largely closed to new members. To reduce the risks associated with defined benefit plans, in particular longevity, salary increases and inflation, the Volkswagen Group has introduced new defined benefit plans in recent years whose benefits are funded by appropriate external plan assets. The above-mentioned risks have been largely reduced in these pension plans. The proportion of the total defined benefit obligation attributable to pension obligations funded by plan assets will continue to rise in the future. The significant pension plans are described in the following.

German pension plans funded solely by recognized provisions

The pension plans funded solely by recognized provisions comprise both contribution-based plans with guarantees and final salary plans. For contribution-based plans, an annual pension expense dependent on income and status is converted into a lifelong pension entitlement using annuity factors (guaranteed modular pension entitlements). The annuity factors include a guaranteed rate of interest. At retirement, the modular pension entitlements earned annually are added together. For final salary plans, the underlying salary is multiplied at retirement by a percentage that depends on the years of service up until the retirement date.

The present value of the guaranteed obligation rises as interest rates fall and is therefore exposed to interest rate risk.

The pension system provides for lifelong pension payments. The companies bear the longevity risk in this respect. This is accounted for by calculating the annuity factors and the present value of the guaranteed obligation using the latest generational mortality tables – the “Heubeck 2005 G” mortality tables – which already reflect future increases in life expectancy.

To reduce the inflation risk from adjusting the regular pension payments by the rate of inflation, a pension adjustment that is not indexed to inflation was introduced for pension plans where this is permitted by law.

German pension plans funded by external plan assets

The pension plans funded by external plan assets are contribution-based plans with guarantees. In this case, an annual pension expense dependent on income and status is either converted into a lifelong pension entitlement using annuity factors (guaranteed modular pension entitlement) or paid out in a single lump sum or in installments. In some cases, employees also have the opportunity to provide for their own retirement through deferred compensation. The annuity factors include a guaranteed rate of interest. At retirement, the modular pension entitlements earned annually are added together. The pension expense is contributed on an ongoing basis to a separate pool of assets that is administered independently of the Company in trust and invested in the capital markets. If the plan assets exceed the present value of the obligations calculated using the guaranteed rate of interest, surpluses are allocated (modular pension bonuses).

Since the assets administered in trust meet the IAS 19 criteria for classification as plan assets, they are deducted from the obligations.

The amount of the pension assets is exposed to general market risk. The investment strategy and its implementation are therefore continuously monitored by the trusts’ governing bodies, on which the companies are also represented. For example, investment policies are stipulated in investment guidelines with the aim of limiting market risk and its impact on plan assets. In addition, asset-liability management studies are conducted if required so as to ensure that investments are in line with the obligations that need to be covered. The pension assets are currently invested primarily in fixed-income or equity funds. The main risks are therefore interest rate and equity price risk. To mitigate market risk, the pension system also provides for cash funds to be set aside in an equalization reserve before any surplus is allocated.

The present value of the obligation is the present value of the guaranteed obligation after deducting the plan assets. If the plan assets fall below the present value of the guaranteed obligation, a provision must be recognized in that amount. The present value of the guaranteed obligation rises as interest rates fall and is therefore exposed to interest rate risk.

In the case of lifelong pension payments, the Volkswagen Group bears the longevity risk. This is accounted for by calculating the annuity factors and the present value of the guaranteed obligation using the latest generational mortality tables – the “Heubeck 2005 G” mortality tables – which already reflect future increases in life expectancy. In addition, the independent actuaries carry out annual risk monitoring as part of the review of the assets administered by the trusts.

To reduce the inflation risk from adjusting the regular pension payments by the rate of inflation, a pension adjustment that is not indexed to inflation was introduced for pension plans where this is permitted by law.

Calculation of the pension provisions was based on the following actuarial assumptions:

	GERMANY		ABROAD	
	2017	2016	2017	2016
%				
Discount rate at December 31	1.88	1.79	3.52	3.82
Payroll trend	3.56	3.46	3.00	3.32
Pension trend	1.50	1.50	2.48	2.44
Employee turnover rate	1.15	1.13	3.25	3.63
Annual increase in healthcare costs	–	–	4.98	4.88

These assumptions are averages that were weighted using the present value of the defined benefit obligation.

With regard to life expectancy, consideration is given to the latest mortality tables in each country.

The discount rates are generally defined to reflect the yields on prime-rated corporate bonds with matching maturities and currencies. The iBoxx AA 10+ Corporates index was taken as the basis for the obligations of German Group companies. Similar indices were used for foreign pension obligations.

The payroll trends cover expected wage and salary trends, which also include increases attributable to career development.

The pension trends either reflect the contractually guaranteed pension adjustments or are based on the rules on pension adjustments in force in each country.

The employee turnover rates are based on past experience and future expectations.

The following table shows changes in the net defined benefit liability recognized in the balance sheet:

€ million	2017	2016
Net liability recognized in the balance sheet at January 1	32,967	27,464
Current service cost	1,372	1,066
Net interest expense	600	729
Actuarial gains (–)/losses (+) arising from changes in demographic assumptions	33	17
Actuarial gains (–)/losses (+) arising from changes in financial assumptions	–616	5,862
Actuarial gains (–)/losses (+) arising from experience adjustments	–88	–283
Income/expenses from plan assets not included in interest income	117	349
Change in amount not recognized as an asset because of the ceiling in IAS 19	–6	–4
Employer contributions to plan assets	582	680
Employee contributions to plan assets	–8	–7
Pension payments from company assets	841	833
Past service cost (including plan curtailments)	7	–24
Gains (–) or losses (+) arising from plan settlements	–1	4
Changes in consolidated Group	0	0
Other changes	–44	–42
Foreign exchange differences from foreign plans	–37	25
Net liability recognized in the balance sheet at December 31	32,666	32,967

The change in the amount not recognized as an asset because of the ceiling in IAS 19 contains an interest component, part of which was recognized in the financial result in profit or loss, and part of which was recognized outside profit or loss directly in equity.

The change in the present value of the defined benefit obligation is attributable to the following factors:

€ million	2017	2016
Present value of obligations at January 1	43,689	37,215
Current service cost	1,372	1,066
Interest cost	883	1,075
Actuarial gains(–)/losses (+) arising from changes in demographic assumptions	33	17
Actuarial gains(–)/losses (+) arising from changes in financial assumptions	–616	5,862
Actuarial gains(–)/losses (+) arising from experience adjustments	–88	–283
Employee contributions to plan assets	33	31
Pension payments from company assets	841	833
Pension payments from plan assets	307	308
Past service cost (including plan curtailments)	7	–24
Gains (–) or losses (+) arising from plan settlements	–3	–64
Changes in consolidated Group	0	0
Other changes	–41	–4
Foreign exchange differences from foreign plans	–290	–62
Present value of obligations at December 31	43,829	43,689

Changes in the relevant actuarial assumptions would have had the following effects on the defined benefit obligation:

		DEC. 31, 2017		DEC. 31, 2016	
Present value of defined benefit obligation if		€ million	Change in percent	€ million	Change in percent
Discount rate	is 0.5 percentage points higher	39,979	–8.79	39,761	–8.99
	is 0.5 percentage points lower	48,290	10.18	48,249	10.44
Pension trend	is 0.5 percentage points higher	46,055	5.08	45,985	5.25
	is 0.5 percentage points lower	41,801	–4.63	41,601	–4.78
Payroll trend	is 0.5 percentage points higher	44,398	1.30	44,297	1.39
	is 0.5 percentage points lower	43,304	–1.20	43,145	–1.25
Longevity	increases by one year	45,106	2.91	44,986	2.97

The sensitivity analysis shown above considers the change in one assumption at a time, leaving the other assumptions unchanged versus the original calculation, i.e. any correlation effects between the individual assumptions are ignored.

To examine the sensitivity of the defined benefit obligation to a change in assumed longevity, the estimates of mortality were reduced as part of a comparative calculation to the extent that doing so increases life expectancy by approximately one year.

The average duration of the defined benefit obligation weighted by the present value of the defined benefit obligation (Macaulay duration) is 19 years (previous year: 20 years).

The present value of the defined benefit obligation is attributable as follows to the members of the plan:

€ million	2017	2016
Active members with pension entitlements	26,067	25,622
Members with vested entitlements who have left the Company	2,233	2,222
Pensioners	15,530	15,846
	43,829	43,689

The maturity profile of payments attributable to the defined benefit obligation is presented in the following table, which classifies the present value of the obligation by the maturity of the underlying payments:

€ million	2017	2016
Payments due within the next fiscal year	1,151	1,126
Payments due between two and five years	4,994	4,801
Payments due in more than five years	37,685	37,762
	43,829	43,689

Changes in plan assets are shown in the following table:

€ million	2017	2016
Fair value of plan assets at January 1	10,749	9,769
Interest income on plan assets determined using the discount rate	283	346
Income/expenses from plan assets not included in interest income	117	349
Employer contributions to plan assets	582	680
Employee contributions to plan assets	25	25
Pension payments from plan assets	307	308
Gains (+) or losses (–) arising from plan settlements	2	68
Changes in consolidated Group	–1	–
Other changes	3	38
Foreign exchange differences from foreign plans	–258	–82
Fair value of plan assets at December 31	11,192	10,749

The investment of the plan assets to cover future pension obligations resulted in income in the amount of €400 million (previous year: €695 million).

Employer contributions to plan assets are expected to amount to €617 million (previous year: €594 million) in the next fiscal year.

Plan assets are invested in the following asset classes:

€ million	DEC. 31, 2017			DEC. 31, 2016		
	Quoted prices in active markets	No quoted prices in active markets	Total	Quoted prices in active markets	No quoted prices in active markets	Total
Cash and cash equivalents	585	5	590	269	–	269
Equity instruments	337	–	337	360	–	360
Debt instruments	1,578	0	1,578	1,658	0	1,659
Direct investments in real estate	2	101	104	2	107	109
Derivatives	38	–60	–23	–15	–	–15
Equity funds	1,532	34	1,567	1,531	43	1,574
Bond funds	5,233	114	5,348	5,310	108	5,418
Real estate funds	207	–	207	192	–	192
Other funds	864	4	868	591	2	593
Other instruments	40	577	617	32	559	591

49.1% (previous year: 48.1%) of the plan assets are invested in German assets, 27.6% (previous year: 26.7%) in other European assets and 23.4 % (previous year: 25.2%) in assets in other regions.

Plan assets include €15 million (previous year: €19 million) invested in Volkswagen Group assets and €18 million (previous year: €9 million) in Volkswagen Group debt instruments.

The following amounts were recognized in the income statement:

€ million	2017	2016
Current service cost	1,372	1,066
Net interest on the net defined benefit liability	602	731
Past service cost (including plan curtailments)	7	–24
Gains (–) or losses (+) arising from plan settlements	–1	4
Net income (–) and expenses (+) recognized in profit or loss	1,981	1,777

The above amounts are generally included in the personnel costs of the functions in the income statement. Net interest on the net defined benefit liability is reported in interest expenses.

30. Noncurrent and current other provisions

€ million	Obligations arising from sales	Employee expenses	Litigation and legal risks	Miscellaneous provisions	Total
Balance at Jan. 1, 2016	31,326	4,148	8,409	7,075	50,958
Foreign exchange differences	174	35	93	100	402
Changes in consolidated Group	23	1	3	124	151
Utilized	9,265	1,344	1,583	2,103	14,295
Additions/New provisions	12,180	1,736	5,605	3,419	22,939
Unwinding of discount/effect of change in discount rate	123	196	-84	3	238
Reversals	1,533	227	726	713	3,199
Balance at Dec. 31, 2016	33,027	4,546	11,717	7,904	57,193
of which current	19,521	1,900	8,624	5,666	35,711
of which noncurrent	13,506	2,646	3,092	2,238	21,482
Balance at Jan. 1, 2017	33,027	4,546	11,717	7,904	57,193
Foreign exchange differences	-689	-61	-119	-169	-1,038
Changes in consolidated Group	13	3	-13	-27	-24
Utilized	17,546	1,450	7,444	2,334	28,774
Additions/New provisions	14,990	2,030	2,190	3,217	22,426
Unwinding of discount/effect of change in discount rate	-50	11	-25	6	-57
Reversals	1,881	193	504	962	3,540
Balance at Dec. 31, 2017	27,865	4,886	5,802	7,634	46,186
of which current	14,821	2,069	2,999	5,458	25,347
of which noncurrent	13,044	2,817	2,802	2,176	20,839

The obligations arising from sales contain provisions covering all risks relating to the sale of vehicles, components and genuine parts through to the disposal of end-of-life vehicles. They primarily comprise warranty obligations, calculated on the basis of losses to date and estimated future losses. They also include provisions for discounts, bonuses and similar allowances which are incurred after the balance sheet date, but for which there is a legal or constructive obligation attributable to sales revenue before the balance sheet date.

Provisions for employee expenses are recognized for long-service awards, time credits, partial retirement arrangements, severance payments and similar obligations, among other things.

The decline in provisions for obligations arising from sales and for litigation and legal risks result primarily from the utilization of the provisions recognized in connection with the diesel issue. In addition to residual provisions relating to the diesel issue, the provisions for litigation and legal risks contain amounts related to a large number of legal disputes and official proceedings in which Volkswagen Group companies become involved in Germany and internationally in the course of their operating activities. In particular, such legal disputes and other proceedings may occur in relation to suppliers, dealers, customers, employees, or investors. Please refer to the "Litigation" section for a discussion of the legal risks.

Miscellaneous provisions relate to a wide range of identifiable specific risks, price risks and uncertain obligations, which are measured in the amount of the expected settlement value.

Miscellaneous provisions additionally include provisions amounting to €534 million (previous year: €490 million) relating to the insurance business.

31. Put options and compensation rights granted to noncontrolling interest share-holders

This balance sheet item consists primarily of the present value of the cash settlement in accordance with section 305 of the Aktiengesetz (AktG – German Stock Corporation Act) offered to MAN shareholders in connection with the control and profit and loss transfer agreement, including the basic interest rate in accordance with section 247 of the Bürgerliches Gesetzbuch (BGB – German Civil Code) assumed until the end of the award proceedings. The Annual General Meeting of MAN SE approved the conclusion of a control and profit and loss transfer agreement between MAN SE and Volkswagen Truck & Bus GmbH, a subsidiary of Volkswagen AG, in June 2013. The agreement sets out that the noncontrolling interest shareholders of MAN SE are entitled to either a cash settlement in accordance with section 305 of the AktG amounting to €80.89 per tendered ordinary or preferred share, or cash compensation in accordance with section 304 of the AktG in the amount of €3.07 per ordinary or preferred share (after corporate taxes, before the shareholder's individual tax liability) for each full fiscal year. In July 2013, award proceedings were instituted to review the appropriateness of the cash settlement set out in the agreement in accordance with section 305 of the Aktiengesetz (AktG – German Stock Corporation Act) and the cash compensation in accordance with section 304 of the AktG. In July 2015, the Munich Regional Court ruled in the first instance that the amount of the cash settlement payable to the noncontrolling interest shareholders of MAN should be increased from €80.89 to €90.29; at the same time, the amount of the cash compensation was confirmed. The ruling is not yet legally effective, and both parties to the proceedings have since appealed. Volkswagen continues to maintain that the results of the valuation are correct. The appropriateness of the valuation was confirmed by the audit firms and by the court-appointed auditor of the agreement. As a precaution, the measurement was adjusted in 2015 to the higher settlement payable.

32. Trade payables

€ million	Dec. 31, 2017	Dec. 31, 2016
Trade payables to		
third parties	22,661	22,311
unconsolidated subsidiaries	187	182
joint ventures	64	157
associates	127	141
other investees and investors	7	3
	23,046	22,794

Additional balance sheet disclosures in accordance with IFRS 7 (Financial Instruments)

CARRYING AMOUNT OF FINANCIAL INSTRUMENTS BY IAS 39 MEASUREMENT CATEGORY

€ million	Dec. 31, 2017	Dec. 31, 2016
Financial assets at fair value through profit or loss	1,712	990
Loans and receivables ¹	125,550	122,376
Available-for-sale financial assets	16,182	17,707
Financial liabilities at fair value through profit or loss	1,540	2,358
Financial liabilities measured at amortized cost	198,821	188,791

1 Prior-year figures adjusted. Further details can be found in the disclosures in the section entitled "Noncurrent and current financial services receivables".

RECONCILIATION OF BALANCE SHEET ITEMS TO CLASSES OF FINANCIAL INSTRUMENTS

The following table shows the reconciliation of the balance sheet items to the relevant classes of financial instruments, broken down by the carrying amount and fair value of the financial instruments.

The fair value of financial instruments measured at amortized cost, such as receivables and liabilities, is calculated by discounting using a market rate of interest for a similar risk and matching maturity. For reasons of materiality, the fair value of current balance sheet items is generally deemed to be their carrying amount.

Financial instruments measured at fair value also include shares in partnerships and corporations. There is no active market for these instruments. Since the future cash flows cannot be reliably determined, fair value cannot be determined using measurement models. The shares in these companies are carried at cost.

**RECONCILIATION OF BALANCE SHEET ITEMS TO CLASSES OF FINANCIAL INSTRUMENTS
AS OF DECEMBER 31, 2016**

€ million	MEASURED AT FAIR VALUE	MEASURED AT AMORTIZED COST		DERIVATIVE FINANCIAL INSTRUMENTS WITHIN HEDGE ACCOUNTING	NOT WITHIN SCOPE OF IFRS 7	BALANCE SHEET ITEM AT DEC. 31, 2016
	Carrying amount	Carrying amount	Fair value	Carrying amount	Carrying amount	
Noncurrent assets						
Equity-accounted investments	–	–	–	–	8,616	8,616
Other equity investments	187	–	–	–	809	996
Financial services receivables	–	68,402	70,766	–	–	68,402
Other financial assets	251	4,982	5,008	3,023	–	8,256
Current assets						
Trade receivables	–	12,187	12,187	–	–	12,187
Financial services receivables	–	49,673	49,673	–	–	49,673
Other financial assets	740	9,527	9,527	1,577	–	11,844
Marketable securities	17,520	–	–	–	–	17,520
Cash, cash equivalents and time deposits	–	19,265	19,265	–	–	19,265
Noncurrent liabilities						
Noncurrent financial liabilities	–	66,358	66,932	–	–	66,358
Other noncurrent financial liabilities	885	1,859	1,863	1,745	–	4,488
Current liabilities						
Put options and compensation rights granted to noncontrolling interest shareholders	–	3,849	3,861	–	–	3,849
Current financial liabilities	–	88,461	88,461	–	–	88,461
Trade payables	–	22,794	22,794	–	–	22,794
Other current financial liabilities	1,473	6,010	6,010	1,956	–	9,438

**RECONCILIATION OF BALANCE SHEET ITEMS TO CLASSES OF FINANCIAL INSTRUMENTS
AS OF DECEMBER 31, 2017**

€ million	MEASURED AT FAIR VALUE	MEASURED AT AMORTIZED COST		DERIVATIVE FINANCIAL INSTRUMENTS WITHIN HEDGE ACCOUNTING	NOT WITHIN SCOPE OF IFRS 7	BALANCE SHEET ITEM AT DEC. 31, 2017
	Carrying amount	Carrying amount	Fair value	Carrying amount	Carrying amount	
Noncurrent assets						
Equity-accounted investments	–	–	–	–	8,205	8,205
Other equity investments	243	–	–	–	1,075	1,318
Financial services receivables	–	73,249	75,049	–	–	73,249
Other financial assets	776	4,364	4,391	3,315	–	8,455
Current assets						
Trade receivables	–	13,357	13,357	–	–	13,357
Financial services receivables	–	53,145	53,145	–	–	53,145
Other financial assets	936	9,153	9,153	1,909	–	11,998
Marketable securities	15,939	–	–	–	–	15,939
Cash, cash equivalents and time deposits	–	18,457	18,457	–	–	18,457
Assets held for sale	–	–	–	–	90	90
Noncurrent liabilities						
Noncurrent financial liabilities	–	81,628	82,567	–	–	81,628
Other noncurrent financial liabilities	774	1,630	1,633	261	–	2,665
Current liabilities						
Put options and compensation rights granted to noncontrolling interest shareholders	–	3,795	3,811	–	–	3,795
Current financial liabilities	–	81,844	81,844	–	–	81,844
Trade payables	–	23,046	23,046	–	–	23,046
Other current financial liabilities	766	7,358	7,358	446	–	8,570

Uniform valuation techniques and inputs are used to measure fair value. The fair value of Level 2 and 3 financial instruments is measured in the individual divisions on the basis of Group-wide specifications. The measurement techniques used are explained in the section on “Accounting policies”. The fair value of put options and compensation rights granted to noncontrolling interest shareholders is calculated using a present value model based on the cash settlement determined by the Munich Regional Court in the award proceedings, including cash compensation, as well as the minimum statutory interest rate and a risk-adjusted discount rate for a matching maturity. For further information, please see section entitled “Put options and compensation rights granted to noncontrolling interest shareholders”. The fair value of Level 3 receivables was measured by reference to individual expectations of losses; these are based to a significant extent on the Company’s assumptions about counterparty credit quality. Financial services receivables are allocated to Level 3 because their fair value was measured using inputs that are not observable in an active market.

The following table contains an overview of the financial assets and liabilities measured at fair value by level:

FINANCIAL ASSETS AND LIABILITIES MEASURED AT FAIR VALUE BY LEVEL

€ million	Dec. 31, 2016	Level 1	Level 2	Level 3
Noncurrent assets				
Other equity investments	187	76	–	111
Other financial assets	251	–	216	34
Current assets				
Other financial assets	740	–	734	6
Marketable securities	17,520	17,520	–	–
Noncurrent liabilities				
Other noncurrent financial liabilities	885	–	722	163
Current liabilities				
Other current financial liabilities	1,473	–	1,406	67

€ million	Dec. 31, 2017	Level 1	Level 2	Level 3
Noncurrent assets				
Other equity investments	243	103	–	140
Other financial assets	776	–	705	71
Current assets				
Other financial assets	936	–	933	3
Marketable securities	15,939	15,939	–	–
Noncurrent liabilities				
Other noncurrent financial liabilities	774	–	242	532
Current liabilities				
Other current financial liabilities	766	–	533	233

FAIR VALUE OF FINANCIAL ASSETS AND LIABILITIES MEASURED AT AMORTIZED COST BY LEVEL

€ million	Dec. 31, 2016	Level 1	Level 2	Level 3
Fair value of financial assets measured at amortized cost				
Financial services receivables	120,438	–	–	120,438
Trade receivables	12,187	–	11,977	210
Other financial assets	14,535	550	6,695	7,289
Cash, cash equivalents and time deposits	19,265	18,838	426	–
Fair value of financial assets measured at amortized cost	166,425	19,389	19,099	127,937
Fair value of financial liabilities measured at amortized cost				
Put options and compensation rights granted to noncontrolling interest shareholders	3,861	–	–	3,861
Trade payables	22,794	–	22,794	–
Financial liabilities	155,394	39,391	114,198	1,804
Other financial liabilities	7,873	537	7,159	177
Fair value of financial liabilities measured at amortized cost	189,921	39,928	144,151	5,842

€ million	Dec. 31, 2017	Level 1	Level 2	Level 3
Fair value of financial assets measured at amortized cost				
Financial services receivables	128,195	–	–	128,195
Trade receivables	13,357	–	13,184	173
Other financial assets	13,544	170	5,925	7,449
Cash, cash equivalents and time deposits	18,457	18,043	414	–
Fair value of financial assets measured at amortized cost	173,553	18,213	19,524	135,817
Fair value of financial liabilities measured at amortized cost				
Put options and compensation rights granted to noncontrolling interest shareholders	3,811	–	–	3,811
Trade payables	23,046	–	23,046	–
Financial liabilities	164,411	50,970	111,606	1,835
Other financial liabilities	8,992	596	8,184	212
Fair value of financial liabilities measured at amortized cost	200,259	51,566	142,836	5,857

DERIVATIVE FINANCIAL INSTRUMENTS WITHIN HEDGE ACCOUNTING BY LEVEL

€ million	Dec. 31, 2016	Level 1	Level 2	Level 3
Noncurrent assets				
Other financial assets	3,023	–	3,019	4
Current assets				
Other financial assets	1,577	–	1,577	–
Noncurrent liabilities				
Other noncurrent financial liabilities	1,745	–	1,745	0
Current liabilities				
Other current financial liabilities	1,956	–	1,956	–

€ million	Dec. 31, 2017	Level 1	Level 2	Level 3
Noncurrent assets				
Other financial assets	3,315	–	3,315	–
Current assets				
Other financial assets	1,909	–	1,909	–
Noncurrent liabilities				
Other noncurrent financial liabilities	261	–	261	–
Current liabilities				
Other current financial liabilities	446	–	445	0

The allocation of fair values to the three levels in the fair value hierarchy is based on the availability of observable market prices. Level 1 is used to report the fair value of financial instruments for which a price is directly available in an active market. Examples include marketable securities and other equity investments measured at fair value. Fair values in Level 2, for example of derivatives, are measured on the basis of observable market inputs using market-based valuation techniques. In particular, the inputs used include exchange rates, yield curves and commodity prices that are observable in the relevant markets and obtained through pricing services. Level 3 fair values are calculated using valuation techniques that incorporate inputs that are not observable in active markets. In the Volkswagen Group, long-term commodity futures are allocated to Level 3 because the prices available on the market must be extrapolated for measurement purposes. This is done on the basis of observable inputs obtained for the different commodities through pricing services. Options on equity instruments and residual value protection models are also reported in Level 3. Equity instruments are measured primarily using the relevant business plans and entity-specific discount rates. The significant inputs used to measure fair value for the residual value protection models include forecasts and estimates of used vehicle residual values for the appropriate models.

CHANGES IN BALANCE SHEET ITEMS MEASURED AT FAIR VALUE BASED ON LEVEL 3

€ million	Financial assets measured at fair value	Financial liabilities measured at fair value
Balance at Jan. 1, 2016	119	251
Foreign exchange differences	0	0
Total comprehensive income	24	97
recognized in profit or loss	17	100
recognized in other comprehensive income	7	-3
Additions (purchases)	23	-
Sales and settlements	-9	-89
Transfers into Level 2	-6	-30
Balance at Dec. 31, 2016	152	230
Total gains or losses recognized in profit or loss	17	-100
Net other operating expense/income	-	-
of which attributable to assets/liabilities held at the reporting date	-	-
Financial result	17	-100
of which attributable to assets/liabilities held at the reporting date	14	-74

€ million	Financial assets measured at fair value	Financial liabilities measured at fair value
Balance at Jan. 1, 2017	152	230
Foreign exchange differences	-9	-1
Total comprehensive income	68	526
recognized in profit or loss	72	526
recognized in other comprehensive income	-4	0
Additions (purchases)	47	115
Sales and settlements	-11	-104
Transfers into Level 2	-31	-2
Balance at Dec. 31, 2017	215	765
Total gains or losses recognized in profit or loss	72	-526
Net other operating expense/income	-	-
of which attributable to assets/liabilities held at the reporting date	-	-
Financial result	72	-526
of which attributable to assets/liabilities held at the reporting date	32	-525

The transfers between the levels of the fair value hierarchy are reported at the respective reporting dates. The transfers out of Level 3 into Level 2 comprise commodity futures for which observable quoted prices are now available for measurement purposes due to the decline in their remaining maturities; consequently, no extrapolation is required. There were no transfers between other levels of the fair value hierarchy.

Commodity prices are the key risk variable for the fair value of commodity futures. Sensitivity analyses are used to present the effect of changes in commodity prices on earnings after tax and equity.

If commodity prices for commodity futures classified as Level 3 had been 10% higher (lower) as of December 31, 2017, earnings after tax would have been €10 million (previous year: €6 million) higher (lower) and equity would have been €– million (previous year: €3 million) higher (lower).

The key risk variable for measuring options on equity instruments held by the Company is the relevant enterprise value. Sensitivity analyses are used to present the effect of changes in risk variables on earnings after tax.

If the assumed enterprise values had been 10% higher, earnings after tax would have been €3 million (previous year: €1 million) higher. If the assumed enterprise values had been 10% lower, earnings after tax would have been €3 million (previous year: €1 million) lower.

Residual value risks result from hedging agreements with dealers under which earnings effects caused by market-related fluctuations in residual values that arise from buy-back obligations under leases are borne in part by the Volkswagen Group.

The key risk variable influencing the fair value of the options relating to residual value risks is used car prices. Sensitivity analyses are used to quantify the effects of changes in used car prices on earnings after tax.

If the prices for the used cars covered by the residual value protection model had been 10% higher as of December 31, 2017, earnings after tax would have been €319 million (previous year: €249 million) higher. If the prices for the used cars covered by the residual value protection model had been 10% lower as of December 31, 2017, earnings after tax would have been €333 million (previous year: €249 million) lower.

OFFSETTING OF FINANCIAL ASSETS AND LIABILITIES

The following tables contain information about the effects of offsetting in the balance sheet and the potential financial effects of offsetting in the case of instruments that are subject to a legally enforceable master netting arrangement or a similar agreement.

€ million	Gross amounts of recognized financial assets	Gross amounts of recognized financial liabilities set off in the balance sheet	Net amounts of financial assets presented in the balance sheet	AMOUNTS THAT ARE NOT SET OFF IN THE BALANCE SHEET		Net amount at Dec. 31, 2016
				Financial instruments	Collateral received	
Derivatives	5,591	–	5,591	–3,425	–175	1,990
Financial services receivables	118,470	–395	118,075	–	–65	118,010
Trade receivables	12,188	–2	12,187	0	–7	12,179
Marketable securities	17,520	–	17,520	–	–	17,520
Cash, cash equivalents and time deposits	19,265	–	19,265	–	–	19,265
Other financial assets	14,709	–14	14,695	0	–	14,695

€ million	Gross amounts of recognized financial assets	Gross amounts of recognized financial liabilities set off in the balance sheet	Net amounts of financial assets presented in the balance sheet	AMOUNTS THAT ARE NOT SET OFF IN THE BALANCE SHEET		Net amount at Dec. 31, 2017
				Financial instruments	Collateral received	
Derivatives	6,936	0	6,936	–1,036	–197	5,704
Financial services receivables	126,877	–482	126,395	–	–67	126,328
Trade receivables	13,356	0	13,356	0	–1	13,355
Marketable securities	15,939	–	15,939	–	–	15,939
Cash, cash equivalents and time deposits	18,457	–	18,457	–	–	18,457
Other financial assets	13,780	–20	13,760	–	–	13,760

€ million	Gross amounts of recognized financial liabilities	Gross amounts of recognized financial assets set off in the balance sheet	Net amounts of financial liabilities presented in the balance sheet	AMOUNTS THAT ARE NOT SET OFF IN THE BALANCE SHEET		Net amount at Dec. 31, 2016
				Financial instruments	Collateral pledged	
Put options and compensation rights granted to noncontrolling interest shareholders	3,849	–	3,849	–	–	3,849
Derivatives	6,058	–	6,058	–3,427	–24	2,607
Financial liabilities	154,819	–	154,819	–	–3,041	151,778
Trade payables	22,796	–2	22,794	0	–	22,794
Other financial liabilities	8,278	–409	7,869	–	–	7,869

€ million	Gross amounts of recognized financial liabilities	Gross amounts of recognized financial assets set off in the balance sheet	Net amounts of financial liabilities presented in the balance sheet	AMOUNTS THAT ARE NOT SET OFF IN THE BALANCE SHEET		Net amount at Dec. 31, 2017
				Financial instruments	Collateral pledged	
Put options and compensation rights granted to noncontrolling interest shareholders	3,795	–	3,795	–	–	3,795
Derivatives	2,254	–7	2,246	–904	–12	1,330
Financial liabilities	163,472	–	163,472	–	–2,795	160,677
Trade payables	23,046	0	23,046	0	–	23,045
Other financial liabilities	9,483	–495	8,988	–	–	8,988

The “Financial instruments” column shows the amounts that are subject to a master netting arrangement but were not set off because they do not meet the criteria for offsetting in the balance sheet. The “Collateral received” and “Collateral pledged” columns show the amounts of cash collateral and collateral in the form of financial instruments received and pledged for the total assets and liabilities that do not meet the criteria for offsetting in the balance sheet.

CHANGES IN CREDIT RISK VALUATION ALLOWANCES ON FINANCIAL ASSETS

€ million	Specific valuation allowances	Portfolio-based valuation allowances	2017	Specific valuation allowances	Portfolio-based valuation allowances	2016
Balance at Jan. 1	2,092	2,175	4,268	2,142	1,970	4,112
Exchange rate and other changes	-87	-46	-132	90	-12	78
Changes in consolidated Group	-18	0	-18	-25	0	-25
Additions	853	525	1,378	663	727	1,390
Utilization	427	-	427	429	-	429
Reversals	339	676	1,014	404	453	857
Reclassification	20	-20	-	56	-56	0
Balance at Dec. 31	2,094	1,959	4,054	2,092	2,175	4,268

The valuation allowances mainly relate to the credit risks associated with receivables from the financial services business.

ASSET-BACKED SECURITIES TRANSACTIONS

Asset-backed securities transactions with financial assets amounting to €24,561 million (previous year: €24,191 million) entered into to refinance the financial services business are included in bonds, commercial paper and notes, and liabilities from loans. The corresponding carrying amount of the receivables from the customer and dealer financing and the finance lease business amounted to €26,689 million (previous year: €26,184 million). Collateral of €41,799 million (previous year: €43,847 million) in total was furnished as part of asset-backed securities transactions. The expected payments were assigned to structured entities and the equitable liens in the financed vehicles were transferred. These asset-backed securities transactions did not result in the receivables from financial services business being derecognized, as the Group retains nonpayment and late payment risks. The difference between the assigned receivables and the related liabilities is the result of different terms and conditions and the share of the securitized paper and notes held by the Volkswagen Group itself, as well as the proportion of vehicles financed within the Group.

Most of the public and private asset-backed securities transactions of the Volkswagen Group can be repaid in advance (clean-up call) if less than 9% or 10%, as appropriate, of the original transaction volume is outstanding. The assigned receivables cannot be assigned again or pledged elsewhere as collateral. The claims of the holders of commercial paper and notes are limited to the assigned receivables and the receipts from those receivables are earmarked for the repayment of the corresponding liability.

As of December 31, 2017, the fair value of the assigned receivables still recognized in the balance sheet was €27,089 million (previous year: €27,856 million). The fair value of the related liabilities was €24,511 million (previous year: €24,424 million) at that reporting date.

Companies of the Volkswagen Financial Services subgroup are contractually obliged, under certain conditions, to transfer funds to the structured entities that are included in its financial statements. Since the receivables are transferred to the special purpose entity by way of undisclosed assignment, the situation may occur in which the receivable has already been reduced in a legally binding manner at the originator, for example if the obligor effectively offsets it against receivables owed to it by a company belonging to the Volkswagen Group. In this case, collateral must be furnished for the resulting compensation claims against the special purpose entity, for example if the rating of the Group company concerned declines to a contractually agreed reference value.