

**Deutsche Börse Aktiengesellschaft, Frankfurt/Main**  
**Balance Sheet as at 31 December 2019**

Assets	31.12.2019 €	31.12.2018 € (thousand)	Shareholder's Equity and Liabilities	Per value of shares acquired for retirement	Subscribed capital before retirement	31.12.2019 €	31.12.2018 € (thousand)
<b>NONCURRENT ASSETS</b>			<b>SHAREHOLDER'S EQUITY</b>				
<b>Intangible Assets</b>			<b>Subscribed Capital</b>	€ 190,000,000.00	€ 6,570,965.00	183,429,035.00	183,347
Licenses and similar rights for data processing and software	108,232,616.14	117,764	<b>Capital Reserve</b>			1,382,025,024.20	1,377,754
Goodwill	98,315.00	148	<b>Retained Earnings</b>				
Prepayments	150,000.00	0	Other profit reserves			742,019,479.35	450,353
	<b>108,480,931.14</b>	<b>117,912</b>	<b>Unappropriated Surplus</b>			560,000,000.00	515,000
<b>Tangible Assets</b>			<b>Total Shareholder's Equity</b>			<b>2,867,473,538.55</b>	<b>2,526,454</b>
Fixtures on third party land	15,691,514.19	15,017	<b>Provisions</b>				
Other assets, furniture and office equipment	60,388,292.09	54,999	Provisions for pensions and similar obligations			28,463,125.01	38,261
Prepayments on account and construction in progress	9,519,032.48	4,925	Provisions for deferred taxes			187,783,182.96	192,688
	<b>85,598,838.76</b>	<b>74,941</b>	Other provisions			303,953,015.95	309,847
<b>Financial Assets</b>			<b>Total provisions</b>			<b>520,199,323.92</b>	<b>540,796</b>
Shares in affiliated companies	5,007,465,436.58	5,520,918	<b>LIABILITIES</b>				
Loans to affiliated companies	58,884,947.45	60,125	Bonds			2,300,000,000.00	2,300,000
Investments	62,359,480.06	97,680	thereof with residual term up to 1 year € 0.00 (previous year € 0 (thousand))				
Loans to companies in which the company has a participating interest	331,350.34	387	thereof with residual term over 1 year € 2,300,000,000.00 (previous year € 2,300,000 (thousand))				
Long-Term securities	26,671,202.60	20,947	Trade accounts payable			17,056,512.22	19,212
Other loans	0.00	6	thereof with residual term up to 1 year € 17,056,512.22 (previous year € 19,213 (thousand))				
	<b>5,155,712,417.03</b>	<b>5,700,063</b>	Amounts owed to affiliated companies			848,052,052.79	1,666,962
<b>Total Noncurrent Assets</b>	<b>5,349,792,186.93</b>	<b>5,892,916</b>	thereof with residual term up to 1 year € 848,052,052.79 (previous year € 1,666,962 (thousand))				
<b>CURRENT ASSETS</b>			Amounts owed to companies in which the company has a participating interest			72,465.69	58
<b>Accounts Receivable and Other Assets</b>			thereof with residual term up to 1 year € 72,465.69 (previous year € 58 (thousand))				
Trade accounts receivable	157,098,672.07	172,887	Other liabilities			48,911,595.40	45,318
Receivables from affiliated companies	181,414,725.80	266,892	thereof with residual term up to 1 year € 31,219,621.21 (previous year € 45,021 (thousand))				
Receivables from companies in which the company has a participating interest	619,951.46	406	thereof with residual term over 1 year € 198,000.00 (previous year € 297 (thousand))				
Other current assets	27,602,969.95	14,433	thereof from taxes € 17,378,314.77 (previous year € 7,967 (thousand))				
thereof with residual term over 1 year € 374,233.11 (previous year € 380 (thousand))			thereof from social security € 115,659.42 (previous year € 18 (thousand))				
	<b>366,736,319.28</b>	<b>454,618</b>	<b>Total Liabilities</b>			<b>3,214,092,626.10</b>	<b>4,031,550</b>
<b>Bank Balances</b>	<b>849,269,504.69</b>	<b>716,534</b>	<b>DEFERRED INCOME AND ACCRUED EXPENSES</b>			6,160,811.89	4,570
<b>Total Current Assets</b>	<b>1,216,005,823.97</b>	<b>1,171,152</b>	<b>Total Shareholder's Equity and Liabilities</b>			<b>6,607,926,300.46</b>	<b>7,103,370</b>
<b>DEFERRED EXPENSES AND ACCRUED INCOME</b>	<b>42,128,289.56</b>	<b>39,302</b>					
<b>Total Assets</b>	<b>6,607,926,300.46</b>	<b>7,103,370</b>					

**Deutsche Börse Aktiengesellschaft, Frankfurt/Main**  
**Profit and Loss Account**  
**for the period 1 January to 31 December 2019**

	2019		2018	
	€	€	€ (thousand)	€ (thousand)
Sales Revenue		1,423,467,397.10		1,396,552
Other Operating Income		36,307,590.36		54,280
<i>thereof from currency translation € 2,956,413.38 (i. Vj. € 940 (thousand))</i>				
Personnel Expenses				
Wages and Salaries	-215,990,941.29		-250,352	
Social securities, pensions and other benefits	-32,593,968.80		-51,139	
<i>therof pensions € 12,342,253.73 (i. Vj. € 31,662 (thousand))</i>		-248,584,910.09		-301,491
Depreciation				
of intangible and tangible assets		-59,157,946.86		-57,820
Other Operating Expenses		-576,859,762.10		-561,901
<i>therof from currency translation € 2,628,321.48 (i. Vj. € 190 (thousand))</i>				
Income from Participating Interests		305,709,080.33		90,612
<i>therof from affiliated companies € 300,955,576.77 (i. Vj. € 83.936 (thousand))</i>				
Income from Profit and Loss Agreements		228,097,381.79		152,690
Income from Financial Assets: Long-Term Securities and Loans		16,987,178.98		468
Expenses from Profit and Loss Agreements		-3,902,353.35		0
Interest and Similar Income		4,559,360.92		7,285
<i>therof from affiliated companies € 2,614,211.45 (i. Vj. € 1,335 (thousand))</i>				
Depreciation of Current Assets: Financial Assets and Securities		-843,159.90		-13,352
<i>therof to affiliated companies € 0.00 (i. Vj. € 560 (thousand))</i>				
Interest and Similar Charges		-94,364,544.84		-92,685
<i>therof to affiliated companies € 219,239.00 (i. Vj. € 67 (thousand))</i>				
<i>therof from addition of discounted interest € 28,502,160.25 (i. Vj. € 25,782 (thousand))</i>				
Tax on Profit		-205,379,935.15		-145,657
<b>Income after Taxes</b>		<b>826,035,377.19</b>		<b>528,982</b>
Other Taxes		-137,928.19		3,212
<b>Net Income for the Financial Year</b>		<b>825,897,449.00</b>		<b>532,194</b>
Allocations to other profit reserve		-265,897,449.00		-17,194
<b>Unappropriated Surplus</b>		<b>560,000,000.00</b>		<b>515,000</b>

Deutsche Börse AG, Frankfurt am Main

Statement of Changes in Noncurrent Assets as at 31 December 2019

	Acquisition and Production Costs								Depreciation and Amortization					Book Value			
	Balance as at	Balance correction 2018	Exchange differences	Discount	Additions	Disposals	Rebookings	Capital reduction	Balance as at	Balance as at	Balance correction 2018	Depreciation	Release	Rebookings	Balance as at	31 Dec. 2019	31 Dec. 2018
	1 Jan. 2019		2019	2019	2019	2019	2019	2019	31 Dec. 2019	1 Jan. 2019		2019	2019	2019	31 Dec. 2019	€	€
	€	€	€	€	€	€	€	€	€	€	€	€	€	€	€	€	€
<b>Intangible Assets</b>																	
Licences and similar rights for data processing and software	242.070.294,74	0,00	0,00	0,00	21.051.613,01	538.582,28	3.039,83	0,00	262.586.365,30	124.305.704,36	0,00	30.586.627,08	538.582,28	0,00	154.353.749,16	108.232.616,14	117.764.590,38
Goodwill	514.150,36	0,00	0,00	0,00	0,00	0,00	0,00	0,00	514.150,36	366.605,36	0,00	49.230,00	0,00	0,00	415.835,36	98.315,00	147.545,00
Prepayments	0,00	0,00	0,00	0,00	150.000,00	0,00	0,00	0,00	150.000,00	0,00	0,00	0,00	0,00	0,00	0,00	150.000,00	0,00
	<b>242.584.445,10</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>21.201.613,01</b>	<b>538.582,28</b>	<b>3.039,83</b>	<b>0,00</b>	<b>263.250.515,66</b>	<b>124.672.309,72</b>	<b>0,00</b>	<b>30.635.857,08</b>	<b>538.582,28</b>	<b>0,00</b>	<b>154.769.584,52</b>	<b>108.480.931,14</b>	<b>117.912.135,38</b>
<b>Tangible Assets</b>																	
Fixtures on third party land	32.840.723,67	0,00	0,00	0,00	1.509.674,85	224.507,24	2.068.631,20	0,00	36.194.522,48	17.823.982,21	0,00	2.903.533,32	224.507,24	0,00	20.503.008,29	15.691.514,19	15.016.741,46
Other assets, furnitures and office equipment	208.868.992,08	0,00	0,00	0,00	31.386.589,04	4.622.397,69	-263.019,51	0,00	235.370.163,92	153.869.586,54	0,00	25.618.556,46	4.506.469,17	0,00	174.981.673,83	60.388.490,09	54.999.405,54
Prepayments on account and construction in progress	4.925.191,11	0,00	0,00	0,00	6.402.492,89	0,00	-1.808.651,52	0,00	9.519.032,48	0,00	0,00	0,00	0,00	0,00	0,00	9.519.032,48	4.925.191,11
	<b>246.634.906,86</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>39.298.756,78</b>	<b>4.846.904,93</b>	<b>-3.039,83</b>	<b>0,00</b>	<b>281.083.718,88</b>	<b>171.693.568,75</b>	<b>0,00</b>	<b>28.522.089,78</b>	<b>4.730.976,41</b>	<b>0,00</b>	<b>195.484.682,12</b>	<b>85.599.036,76</b>	<b>74.941.338,11</b>
<b>Financial Assets</b>																	
Shares in affiliated companies	5.541.302.106,80	-14.023.731,14	0,00	0,00	32.529.161,03	20.030.000,57	0,00	-532.312.099,54	5.007.465.436,58	20.383.731,14	-14.023.731,14	0,00	6.360.000,00	0,00	0,00	5.007.465.436,58	5.520.918.375,66
Loans to affiliated companies	60.124.543,70	0,00	0,00	0,00	1.239.596,25	1.239.596,25	0,00	58.884.947,45	60.124.543,70	0,00	0,00	0,00	0,00	0,00	0,00	58.884.947,45	60.124.543,70
Investments	147.142.609,89	0,00	0,00	0,00	5.983.237,48	42.244.918,39	1.250.000,00	0,00	112.130.928,98	49.462.422,35	0,00	309.026,57	0,00	0,00	49.771.448,92	62.359.480,06	97.680.187,54
Loans to companies in which the company has a participating interest	386.582,11	0,00	-385,16	0,00	0,00	0,00	-54.846,61	0,00	331.350,34	0,00	0,00	0,00	0,00	0,00	0,00	331.350,34	386.582,11
Long-term securities	20.947.008,20	0,00	415.304,41	0,00	7.326.636,62	326.712,44	-1.250.000,00	60.213,16	27.172.449,95	0,00	0,00	501.247,35	0,00	0,00	501.247,35	26.671.202,60	20.947.008,20
Other loans	6.112,46	0,00	12.901,01	0,00	0,00	73.860,08	54.846,61	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	6.112,46
	<b>5.769.908.963,16</b>	<b>-14.023.731,14</b>	<b>427.820,26</b>	<b>0,00</b>	<b>45.839.035,13</b>	<b>63.915.087,73</b>	<b>0,00</b>	<b>-532.251.886,38</b>	<b>5.205.985.113,30</b>	<b>69.846.153,49</b>	<b>-14.023.731,14</b>	<b>810.273,32</b>	<b>6.360.000,00</b>	<b>0,00</b>	<b>50.272.696,27</b>	<b>5.155.712.417,03</b>	<b>5.700.062.809,67</b>
	<b>6.259.128.315,12</b>	<b>-14.023.731,14</b>	<b>427.820,26</b>	<b>0,00</b>	<b>106.339.404,92</b>	<b>69.300.574,94</b>	<b>0,00</b>	<b>-532.251.886,38</b>	<b>5.750.319.347,84</b>	<b>366.212.031,96</b>	<b>-14.023.731,14</b>	<b>59.968.220,78</b>	<b>11.629.558,69</b>	<b>0,00</b>	<b>400.526.962,91</b>	<b>5.349.792.384,93</b>	<b>5.892.916.283,16</b>

# Notes to the financial statements for financial year 2019

## General information on the Company

Deutsche Börse AG (the “Company”), which has its registered office in Frankfurt/Main, Germany, is registered in Commercial Register B of Frankfurt/Main District Court under the number HRB 32232.

## Accounting policies

Deutsche Börse AG’s financial statements for financial year 2019 were prepared in accordance with the provisions of the Handelsgesetzbuch (HGB, German Commercial Code) and of the Aktiengesetz (AktG, the German Stock Corporation Act).

The total cost accounting method was chosen for the income statement.

The Company is a large corporation as defined by section 267 (3) HGB.

Interest expenses resulting from the investment of funds at negative interest rates are recognised in the “interest and similar charges” item. Interest income resulting from borrowing funds at negative interest rates is reported under “other interest and similar income”.

**Fixed assets**

Acquired intangible assets are carried at cost and amortised using the straight-line method or valued at the lower fair value. No use was made of the option to capitalise internally generated intangible assets.

Purchased goodwill is capitalised upon acquisition and amortised.

Property, plant and equipment is carried at cost. Depreciable property, plant and equipment is depreciated using the straight-line method over its useful life or valued at its lower fair value.

For movable assets, the tax simplification rules regarding the depreciation start date are applied in their valid form on the respective date of acquisition. Low-value assets with costing between €250 and €800 are written off in full in the year of their acquisition or production in accordance with section 6 (2) of the Einkommensteuergesetz (EStG, German Income Tax Act). In this respect, no use was made of the option granted by section 6 (2a) EStG.

Investments in affiliated companies stated under financial assets as well as equity interests are carried at the lower of cost or fair value. Loans are recognised at nominal value, taking into account any permanent impairment, where applicable. Securities are carried at acquisition cost or at the lower exchange rate on the reporting date, in the event of permanent impairment. If the circumstances which led to the impairment of financial assets no longer apply, a reversal is recognised up to a maximum of the original acquisition cost.

Fixed asset line items denominated in foreign currency have been translated into euro amounts using the historical exchange rates valid on the date of acquisition; in cases of permanent impairment, the conversion is at the period-end exchange rate.

**Current assets**

Receivables and other assets are always carried at their nominal amount. All discernible risks are impaired on an item-by-item basis, while latent risks are considered on a portfolio basis.

Credit balances with banks are carried at their nominal value.

Receivables and other assets and credit balances at banks which are held in foreign currencies are translated using the ECB's reference exchange rate or Bloomberg's exchange rate on the reporting date, taking section 256a HGB into account.

## Equity

The subscribed capital is carried at nominal value.

## Provisions

Provisions for pensions and similar obligations have been determined on the basis of actuarial tables using the Projected Unit Credit Method based on the 2018 G mortality tables (generation tables) developed by Dr Klaus Heubeck.

<b>Actuarial assumptions</b>		
	<b>31 Dec. 2019</b>	<b>31 Dec. 2018</b>
<b>Pensions and similar obligations</b>	%	%
10-year average discount rate	2.71	3.21
7-year average discount rate	1.97	2.32
Salary growth	3.50	3.50
Pension growth	2.00	2.00
Staff turnover rate (up to age 50, thereafter 0.00%)	2.00	2.00
<b>Deferred compensation programme</b>		
Discount rate	2.71	3.21

In accordance with section 246 (2) HGB, the settlement amount of pension liabilities as at the reporting date was offset against the fair value of those assets that are protected from all creditors and exclusively serve the purpose of meeting liabilities arising from pension obligations or comparable long-term commitments to employees ("plan assets"). The accumulated acquisition costs of these assets are €216,780 thousand (previous year: €200,440 thousand).

The values of the provisions for the Stock Bonus Plan and Long-term Sustainable Instrument (LSI) are calculated on the basis of the price of Deutsche Börse AG's shares on the reporting date. The provision for the Co-Performance Investment Plan (CPIP) was recognised pro rata temporis. The measurement was based on an option pricing model that takes the programme's key parameters into account.

The provisions for anniversary payments and early retirement were measured at the amount to be paid in accordance with actuarial principles, and for early retirees at present value. The projected unit credit method was applied as the basis of this assessment. During the year under review, the interest rate of 1.97 per cent (previous year: 2.32 per cent) published by the Federal Bank of Germany was applied. The modified "2018 G" mortality tables developed by Dr Klaus Heubeck were the basis of these projections.

For all hedge accounting procedures as defined by section 254 HGB, Deutsche Börse AG exercises the option of only stating hedges on the balance sheet to the extent that the hedge was ineffective and a negative result arises (compensatory valuation/net hedge presentation method). In such an event, a provision for contingent losses is recognised.

The other provisions have been estimated in consideration of all known risks and unknown liabilities as at the reporting date and were estimated at the amount which is required to be paid according to a reasonable commercial assessment. Provisions with a maturity of more than one year are discounted using the market interest rates published by Deutsche Bundesbank according to the remainder of their maturity in accordance with section 253 (2) HGB.

### **Liabilities**

In accordance with section 253 (1) HGB, liabilities are recognised at their respective settlement amounts.

Liabilities in foreign currencies are translated using the ECB's reference exchange rate or Bloomberg's exchange rate on the reporting date, taking section 256a HGB into account.

### **Deferred taxes**

Deferred taxes are calculated in accordance with section 274 HGB on temporary differences between the carrying amounts according to commercial law and their taxable values. Deferred tax liabilities are reported only insofar as they exceed deferred tax assets.

In view of the existing single-entity relationship for tax purposes with Clearstream Holding AG, temporary differences between the carrying amounts according to commercial law and their taxable values of this company were accounted for at the level of the controlling company, Deutsche Börse AG. Calculations of deferred taxes are based on the expected combined income tax rate of all the companies comprising a single entity for tax purposes with Deutsche Börse AG, which currently stands at 27.5 per cent.

As at 31 December 2019, the excess of deferred tax assets amounted to €62.6 million (previous year: €59.4 million). The excess of deferred tax assets is mainly the result of differences in the carrying amounts of intangible assets, the provisions for pensions, their related cover assets and restructuring provisions.

In accordance with section 274 (1) clause 2 HGB, the Company refrains from reporting the excess of deferred tax assets. Deferred taxes are calculated on the basis of the tax rates in effect or expected in Germany on the date they are recovered.

There is currently a uniform rate of corporation tax of 15 per cent plus a solidarity surcharge of 5.5 per cent. Taking trade tax into account, this results in an aggregate tax rate of 27.4 per cent. There were no carryforwards of tax losses as at the reporting date.

## **Valuation units**

The Company exercises its option to create valuation units. The main reason it does so is to hedge against interest rate and currency risks by creating valuation units comprising assets, liabilities or transactions that are highly likely to be concluded as well as suitable hedging transactions. Effectiveness is monitored using suitable methods such as the critical term match or hypothetical derivative methods.

## **Notes to the balance sheet**

### **Fixed assets**

The changes in fixed assets are described in the statement of changes in fixed assets.

In financial year 2019, write-downs of €0.8 million (previous year: €2.3 million) were recognised on financial assets. Due to the economic performance of Trifacta, San Francisco and Illuminate, London, extraordinary write-downs totalling €0.8 million (previous year: €0.0 million) were recognised.

### **Goodwill**

The goodwill purchased in 2011 as part of an asset deal is being amortised over a useful life of 10 years.



## Investments in affiliated companies

As at 31 December 2019, Deutsche Börse AG had investments in affiliated companies as follows:

Company	Domicile	Equity in € thous. <sup>1)</sup>	2019 net profit/loss in € thous.	Equity interest direct (indirect)
Assam SellerCo, Inc. in Liquidation	USA	19,523	21	100.00%
Assam SellerCo Service, Inc. in Liquidation <sup>2)</sup>	USA	n/a	n/a	(100.00)%
Need to Know News, LLC in Liquidation <sup>3)</sup>	USA	1,835	0	(100.00)%
Börse Frankfurt Zertifikate AG	Germany	18,512	4,017	100.00%
Clearstream Holding AG	Germany	1,287,077	-3,902	100.00%
Clearstream Banking AG	Germany	493,218	123,250	(100.00)%
Clearstream Banking S.A. <sup>3)</sup>	Luxembourg	1,263,245	206,530	(100.00)%
Ausmaq Ltd. <sup>3)</sup>	Australia	n/a	1,742	(100.00)%
Clearstream Banking Japan, Ltd.	Japan	1,520	29	(100.00)%
REGIS-TR S.A.	Luxembourg	8,146	1,993	(50.00)%
Clearstream Global Securities Services Ltd.	Ireland	17,310	2,812	(100.00)%
Clearstream International S.A. <sup>3)</sup>	Luxembourg	1,345,824	283,953	(100.00)%
Clearstream Nominees Limited	United Kingdom	n/a	n/a	(100.00)%
Clearstream Operations Prague s.r.o. <sup>3)</sup>	Czech Republic	7,519	372	(100.00)%
Clearstream Services S.A. <sup>3)</sup>	Luxembourg	129,534	12,419	(100.00)%
REGIS-TR UK Ltd. (dormant) <sup>3)</sup>	United Kingdom	n/a	n/a	(100.00)%

Company	Domicile	Equity in € thous. <sup>1)</sup>	2019 net profit/loss in € thous.	Equity interest direct (indirect)
DB1 Ventures GmbH	Germany	35	-40	100.00%
Deutsche Boerse Market Data + Services Singapore Pte. Ltd. <sup>3)</sup>	Singapore	848	30	100.00%
Deutsche Boerse Systems, Inc. <sup>3)</sup>	USA	46,450	-3,028	100.00%
Deutsche Börse Photography Foundation GmbH	Germany	147	-28	100.00%
Deutsche Börse Services s.r.o.	Czech Republic	15,273	4,324	100.00%
Deutsche Börse Shareholdings GmbH (dormant)	Germany	25	-1	100.00%
Eurex Frankfurt AG	Germany	1,052,678	20,298	100.00%
Eurex Clearing AG	Germany	614,813	8,509	(100.00)%
Eurex Clearing Security Trustee GmbH	Germany	81	2	(100.00)%
Eurex Repo GmbH	Germany	27,609	5,669	(100.00)%
Eurex Securities Transaction Services GmbH	Germany	35,000	-897	(100.00)%
Eurex Global Derivatives AG	Switzerland	240,547	89,867	100.00%
Eurex Services GmbH	Germany	90	-10	100.00%
European Energy Exchange AG <sup>3)</sup>	Germany	340,295	45,459	75.05%
EEX Asia Pte. Limited <sup>3)</sup>	Singapore	1,819	-1,352	(75.05)%
EEX Link GmbH <sup>3)</sup>	Germany	67	8	(75.05)%
European Commodity Clearing AG <sup>3)</sup>	Germany	108,935	49,889	(75.05)%
European Commodity Clearing Luxembourg S.à.r.l. <sup>3)</sup>	Luxembourg	109	27	(75.05)%
Grexel Systems oy	Finland	n/a	n/a	(75.05)%
Nodal Exchange Holdings, LLC <sup>3)</sup>	USA	136,644	1,979	(75.05)%

Company	Domicile	Equity in € thous. <sup>1)</sup>	2019 net profit/loss in € thous.	Equity interest direct (indirect)
Nodal Exchange, LLC <sup>3)</sup>	USA	38,215	5,823	(75.05)%
Tyson's Corner, Nodal Clear, LLC <sup>3)</sup>	USA	26,512	6,272	(75.05)%
Power Exchange Central Europe a.s. <sup>3)</sup>	Czech Republic	2,022	689	(50.03)%
Powernext SAS <sup>3)</sup>	France	33,456	13,670	(75.05)%
EPEX Spot SE <sup>3)</sup>	France	64,257	22,177	(38.27)%
EPEX Netherlands B.V. <sup>3)</sup>	Netherlands	0	0	(38.27)%
EPEX SPOT Schweiz AG <sup>3)</sup>	Switzerland	178	20	(38.27)%
Gaspoint Nordic A/S <sup>3)</sup>	Denmark	327	13	(75.05)%
PEGAS CEGH Gas Exchange Services GmbH <sup>3)</sup>	Austria	6,986	231	(38.27)%
Qontigo GmbH	Germany	1,419,504	-4,917	78,32%
Axioma Inc. <sup>4)</sup>	USA	-37,999	-11,403	(78,32)%
Axioma (CH) GmbH <sup>4)</sup>	Switzerland	n/a	n/a	(78,32)%
Axioma (HK) Limited <sup>4)</sup>	Hong Kong	n/a	n/a	(78,32)%
Axioma (UK) Ltd. <sup>4)</sup>	United Kingdom	n/a	n/a	(78,32)%
Axioma Argentina S.A.U. <sup>4)</sup>	Argentina	n/a	n/a	(78,32)%
Axioma Asia Pte Ltd. <sup>4)</sup>	Singapore	n/a	n/a	(78,32)%
Axioma Deutschland GmbH <sup>4)</sup>	Germany	n/a	n/a	(78,32)%
Axioma Japan G.K. <sup>4)</sup>	Japan	n/a	n/a	(78,32)%
Axioma Ltd. <sup>4)</sup>	Australia	n/a	n/a	(78,32)%

Company	Domicile	Equity in € thous. <sup>1)</sup>	2019 net profit/loss in € thous.	Equity interest direct (indirect)
Axioma S.A.S.U. <sup>4)</sup>	France	n/a	n/a	(78,32)%
Qontigo Index GmbH	Germany	734,009	2,751	(78,32)%
STOXX Ltd.	Switzerland	86,896	85,541	(78,32)%
INDEXX PROXXY Ltd.	United Kingdom	n/a	n/a	(78,32)%
STOXX Australia Pty Limited	Australia	22	-3	(78,32)%
Regulatory Services GmbH	Germany	338	-37	100.00%
Tradegate Exchange GmbH	Germany	13,446	1,037	59,98% (+3,99)%
Börse Berlin AG	Germany	11,236	-653	(63,97)%
360 Treasury Systems AG	Germany	83,306	21,234	100.00%
360T Asia Pacific Pte. Ltd.	Singapore	3,482	321	(100.00)%
360TGTX Inc.	USA	24,276	-2,580	(100.00)%
360 Trading Networks Inc.	USA	7,310	358	(100.00)%
360 Trading Networks LLC	UAE	508	62	(100.00)%
360 Trading Networks Sdn Bhd	Malaysia	-34	-16	(100.00)%
Finbird GmbH	Germany	1,424	0	(100.00)%
Finbird Ltd.	Israel	-1,056	-19	(100.00)%
ThreeSixty Trading Networks (India) Pte.Ltd.	India	977	55	(100.00)%

<sup>1)</sup> Includes capital reserves and retained earnings, accumulated gains or losses and net profit or loss for the year and, if necessary, further components according to the respective local GAAP

<sup>2)</sup> Assam SellerCo Service, Inc. is contained in the subgroup of Assam SellerCo, Inc.

<sup>3)</sup> 2018 figures as no other data available

<sup>4)</sup> Entities are consolidated in Axioma Inc. (in Accordance with section 286 III of the Handelsgesetzbuch (HGB, German Commercial Code))

The currency exchange rate as of 31 December 2019 was used for the conversion of the equity and net profit/loss from foreign currencies. For previous year data the currency exchange rate as of 31 December 2018 was used for conversion.

## Equity investments

As at 31 December 2019, Deutsche Börse AG held the following equity investments:

Company	Domicile	Equity in € thous. <sup>1)</sup>	2019 net profit/loss in € thous.	Equity interest direct (indirect)
BrainTrade Gesellschaft für Börsensysteme mbH	Germany	1,712	105	(37.72)%
China Europe International Exchange AG	Germany	7,723	-3,806	40.00%
Deutsche Börse Commodities GmbH	Germany	8,915	5,547	16.20%
enermarket GmbH	Germany	1,179	-909	(30.02)%
HQLAx S.à r.l	Luxembourg	1,946	-4,417	35.13%
LuxCSD S.A.	Luxembourg	3,972	487	(50.00)%
R5FX Ltd <sup>3)</sup>	United Kingdom	75	-780	15.65%
SEEPEX a.d.	Serbia	1,346	112	(9.57)%
SPARK Commodities Ltd.	Singapore	17,838	0	(18.76)%
Tradegate AG Wertpapierhandelsbank	Germany	46,979	15,857	19.99%
ZDB Cloud Exchange GmbH in Liquidation	Germany	120	-6	49.90%
Zimory GmbH in Liquidation	Germany	175	-4	30.03%

The currency exchange rate as of 31 December 2019 was used for the conversion of the equity and net profit/loss from foreign currencies. For previous year data the currency exchange rate as of 31 December 2018 was used for conversion.

### Receivables from affiliated companies

The item breaks down as follows:

	31 Dec. 2019	31 Dec. 2018
	€m	€m
<b>Receivables from affiliated companies</b>		
Trade receivables	83.9	69.3
Other assets	97.5	197.6
Of which resulting from a loan to Qontigo GmbH	80.4	0
Of which resulting from a loan to Qontigo Index GmbH	0.8	0
Of which resulting from the profit and loss transfer agreement with Clearstream Holding AG	0.00	152.7
Of which resulting from a loan to European Energy Exchange AG	0.00	30
<b>Total receivables from affiliated companies</b>	<b>181.4</b>	<b>266.9</b>

### Receivables from companies in which the Company has an equity interest

The item, which amounts to €0.6 million (previous year: €0.4 million) mainly consists of trade receivables.

### Prepaid expenses

Prepaid expenses contain discounts for bond issues as defined by section 250 (3) HGB of €9.3 million (previous year: €10.9 million).

### Deferred tax assets

As at 31 December 2019, the excess of deferred tax assets amounted to €62.6 million (previous year: €59.4 million). Deutsche Börse AG does not exercise the option to recognise deferred tax assets.

## Equity

Fully paid-in share capital amounts to €190.0 million (previous year: €190 million) and is divided into 190,000,000 no-par value registered shares. There were 6,570,965 treasury shares held at the end of the year (previous year: 6,652,955), representing 3.5 per cent of share capital. As part of employee programmes, 81,990 shares were sold at a price of €8.9 million during financial year 2019.

On the basis of the share price of €140.15 as at 31 December 2019, the shares are valued at €920.9 million.

Subject to the agreement of the Supervisory Board, the Executive Board is authorised to increase the subscribed share capital by the following amounts:

	Amount in €	Date of shareholder approval	Conclusion of approval process	Existing shareholders' pre-emptive rights may be disapplied for fractioning and/or may be disapplied if the share issue is:
Authorised share capital I*	13,300,000	11 May 2016	10 May 2021	- N/A
Authorised share capital II*	19,300,000	13 May 2015	12 May 2020	- for cash at an issue price not significantly lower than the exchange-traded share price up to a maximum amount of 10 per cent of the share capital  - against non-cash contributions for the purpose of acquiring companies, parts of companies, interests in companies, or other assets
Authorised share capital III*	38,600,000	13 May 2015	12 May 2020	- N/A
Authorised share capital IV	6,000,000	17 May 2017	16 May 2022	- N/A

\*Shares may only be issued without subscription rights if during the term of the authorisation the total number of new shares issued without subscription rights (including those issued in accordance with other authorisations) does not constitute more than 20 per cent of the share capital.

## Contingent capital

By resolution of the Annual General Meeting on 08 May 2019, the Executive Board was authorised – until 07 May 2024 and subject to the approval of the Supervisory Board – to issue individual or multiple convertible bonds and/or bonds with warrants or a combination of these instruments having a total nominal value of up to €5,000,000,000 and with limited or unlimited terms and to grant the holders/creditors conversion rights and/or options on new no-par value registered shares in Deutsche Börse AG with a proportionate interest in the share capital totalling up to €17,800,000, subject to the terms and conditions of the convertible bonds/the warrants attached to the bonds with warrants.

Subject to the Supervisory Board's approval, the Executive Board is authorised to disapply shareholders' pre-emptive rights to bonds with conversion rights or options on shares in Deutsche Börse AG in the following cases: (i) For the purpose of eliminating fractions; (ii) If a bond's issue price is not significantly lower than the theoretical market value calculated using recognised financial and mathematical methods and the sum of the shares attributable to these bonds does not exceed 10 per cent of the share capital; (iii) To grant the holders of conversion rights and/or options on shares in Deutsche Börse AG as many pre-emptive rights as they would be entitled to after exercising these rights, for the purpose of eliminating dilution.

The bonds may also be issued by German or foreign-domiciled companies affiliated with Deutsche Börse AG in accordance with sections 15 et seq. AktG. As a result, the share capital was increased conditionally by up to €17,800,000 (contingent capital 2019). So far, no use has been made of the authorisation to issue convertible bonds and/or bonds with warrants.

No other rights to acquire shares existed at 31 December 2019 or 31 December 2018.



The Company's capital reserves and retained earnings changed as follows:

	Capital reserves	Retained earnings		
		Statutory reserve	Other retained earnings	Total
	€m	€m	€m	€m
Brought forward as at 1 January 2019	1,377.8	0.0	450.4	450.4
Addition from previous year's net profit	0.0	0.0	20.0	20.0
Addition from 2018 net income	0.0	0.0	0.0	0.0
Addition due to sale of own shares	4.3	0.0	5.8	5.8
Withdrawal due to purchase of own shares	0.0	0.0	0.0	0.0
Addition due to calling of own shares	0.0	0.0	0.0	0.0
Withdrawal due to calling of own shares	0.0	0.0	0.0	0.0
Balance as at 31 December 2019	1,382.1	0.0	476.1	476.1

As the fair value of the plan assets is higher than their acquisition cost, there is, when deferred tax liabilities are taken into account, a block on distributions in accordance with section 268 (8) of the HGB in the amount of €26.8 million (previous year: €15.3 million).

The accumulated profit as at 31 December 2019 does not include any profit carried forwards from the prior year. A profit of €19.9 million that was carried forwards from the prior year was added to other retained earnings.

### **Proposal for the appropriation of net profit**

The Executive Board proposes appropriating the net profit of EUR 560,000,000 reported in Deutsche Börse AG's annual financial statements as follows:

Distributing EUR 2.90 for each no-par value share granting entitlement to a dividend, i.e. EUR 531,944,201.50 in total, and adding an amount of EUR 28,055,798.50 to "Other retained earnings".

The proposed appropriation of earnings takes into account the treasury shares held directly or indirectly by the Company, which do not grant entitlement to a dividend pursuant to section 71b AktG. The number of shares granting entitlement to a dividend may increase or decrease prior to the Annual General Meeting as a result of the acquisition of treasury shares (with or without the subsequent withdrawal of the acquired shares) or the sale of treasury shares. In this case, a correspondingly amended proposal for a resolution regarding the appropriation of earnings will be submitted to the Annual General Meeting, with an unchanged distribution of EUR 2.90.

### **Provisions for pensions and similar obligations**

The plan assets, which correspond to a 72.2 per cent share (previous year: 72.0 per cent) in a domestic alternative investment fund as defined by section 1 (10) of the Kapitalanlagegesetzbuch (KAGB, German Capital Investment Code), had a fair value at the balance sheet date of €253.8 million (previous year: €221.6 million), which is equivalent to the market value as defined by section 278 in conjunction with section 168 of the KAGB. This special fund is an international mixed fund (mixed special fund) with regulatory investment restrictions. In accordance with the investment guidelines, an absolute return approach with a capital protection mechanism is applied and investments can be made in different asset classes. During the period under review, €12.6 million (previous year: €6.3 million) was withdrawn. €12.2 million of this amount consisted of ongoing pension payments and was immediately added back to the plan assets. A total amount of €28.9 million (previous year: €24.8 million) was added to the special fund in the year under review. These assets are protected from all creditor claims and are not repayable on demand.

<b>Asset offsetting pursuant to section 246 (2) clause 2 HGB</b>	
	<b>€m</b>
Pension obligations payable	-282.2
Fair value of plan assets	253.7
<b>Provisions for pensions and similar obligations</b>	<b>-28.5</b>
<b>Netting profit and loss</b>	
	<b>€m</b>
Expenses arising from pension obligations	-9.5
<b>Net revenue stated under personnel expenses</b>	<b>-9.5</b>
Interest expense arising from pension obligations	-27.1
Write-downs of plan assets	15.9
Income from plan assets	0.3
<b>Net expenses stated under financial result</b>	<b>-10.9</b>

Due to a change in the HGB relating to the implementation of the Mortgage Credit Directive, the pension provisions have been discounted using a 10-year average discount since 2016 (until 2015: 7-year average discount). The resulting difference is as follows:

<b>Value of obligation based on different discount rates</b>	<b>€m</b>
Pension provision discounted using 10-year average	288.8
Pension provision discounted using 7-year average	321.5
<b>Difference</b>	<b>32.7</b>

The difference less deferred taxes may not be distributed pursuant to section 253 (6) HGB.

## Other provisions

Other provisions, amounting to €304.0 million (previous year: €309.8 million), comprise the following:

	2019	2018
	€m	€m
Phantom stock option plans and stock bonus plan	77.0	52.7
Outstanding invoices	53.9	39.7
Interest relating to the tax field audit	49.9	55.2
Provisions recognised as part of the efficiency programmes	48.1	64.7
Variable remuneration	37.1	45.8
Other personnel provisions	22.9	26.5
Obligation to reimburse current and future pension payments to the chamber of	7.7	7.5
Anticipated losses from leases and asset retirement obligations	2.7	2.4
Supervisory Board remuneration	2.5	2.2
Miscellaneous provisions	1.8	1.7
Process risks	0.4	11.4
<b>Total other provisions</b>	<b>304.0</b>	<b>309.8</b>

## Liabilities

Liabilities are divided into the categories below.

Amount in €m	Total amount	Thereof: > 5 years
Bonds (previous year)	2,300.0 (2,300.0)	1,100.0 (1,100.0)
Trade payables (previous year)	17.1 (19.2)	0.0 (0.0)
Liabilities towards affiliated companies (previous year)	848.0 (1,667.0)	0.0 (0.0)
- Thereof trade payables (previous year)	46.1 (43.9)	0.0 (0.0)
- Thereof other liabilities (previous year)	801.9 (1,623.1)	0.0 (0.0)
Payables to other companies in which the Company has an equity interest (previous year)	0.1 (0.1)	0.0 (0.0)
- Thereof trade payables (previous year)	0.1 (0.1)	0.0 (0.0)
Other liabilities (previous year)	48.9 (45.3)	0.0 (0.0)
- Thereof taxes (previous year)	17.4 (8.0)	0.0 (0.0)
- Thereof social security contributions (previous year)	0.1 (0.0)	0.0 (0.0)
<b>Total liabilities (previous year)</b>	<b>3,214.1 (4,031.6)</b>	<b>1,100.0 (1,100.0)</b>

Lien rights or similar rights are not included in liabilities.

## Income statement disclosures

### Revenue

Sales revenue breaks down by field of activity as follows:

	2019	2018
Sales revenue by segment	€m	€m
Eurex (financial derivatives)	854.5	836.6
Xetra (securities trading)	222.2	229.8
Data (data business)	199.7	198.8
Clearstream (post-trade)	83.8	75.7
Qontigo (index business)	25.3	27.4
IFS (investment fund services)	15.0	8.7
EEX (commodities)	14.8	13.5
GSF (collateral management)	7.8	3.1
360T (forex trading)	0.4	2.9
<b>Total</b>	<b>1,423.5</b>	<b>1,396.5</b>

## Other operating income

Other operating income breaks down as follows:

	2019	2018
	€m	€m
Reversal of provisions from previous years	18.2	10.9
Currency translation	3.0	0.9
Sale of shares in Taifex	7.8	0.0
Sale of shares in Bombay Stock Exchange	1.5	0.0
Liquidation of Deutsche Börse Asia	0.8	0.0
Sale of shares in Digital Vega	0.7	0.0
Sale of shares in Assam Seller Co	0.6	0.0
Sale of shares in RegTek Solutions	0.1	0.0
Other	3.7	42.5
Of which licensing income	0.0	38.7
Of which payments in kind	1.6	1.8
<b>Total other operating income</b>	<b>36.3</b>	<b>54.3</b>

## Other operating expenses

Other operating expenses break down as follows:

	2019	2018
	€m	€m
Compensation for operational management	142.4	158.6
Legal and consulting expenses	135.7	104.2
IT services	98.7	70.9
Lease expenses	40.4	43.0
Agency fees to affiliated companies	36.9	25.2
Sales of price information	35.5	34.7
Non-deductible input tax	17.8	24.9
Advertising and marketing	11.3	10.8
Xetra Market Services	9.0	11.5
Communication network	7.7	7.3
Travel, hospitality and entertainment expenses	5.2	5.6
Price information from regional stock exchanges and exchange brokers	3.2	7.7
Contributions, charges and fees	3.1	3.3
Incidental personnel costs	3.0	3.4
Currency translation expenses	2.6	0.2
Voluntary social expenses	2.5	2.6
CCP transactions	1.7	8.7
Other	20.8	39.3
<b>Total other operating expenses</b>	<b>576.9</b>	<b>561.9</b>



## Auditor's fee

The Company is included in the scope of consolidation of Deutsche Börse AG. In accordance with section 285 (17) HGB, disclosures as to the auditor's fee are contained in the notes to the consolidated financial statements of Deutsche Börse Aktiengesellschaft.

## Other disclosures

### Disclosures on derivative financial instruments and hedging transactions

Deutsche Börse AG did not hold any derivative financial instruments as at the reporting date.

### Other financial obligations and transactions not included in the balance sheet

Amount in €m	Total amount	Thereof: up to 1 year	Thereof: 1-5 years	Thereof: > 5 years
Rental, leasing and maintenance contracts (previous year)	264.1 (155.0)	24.5 (31.1)	62.2 (76.6)	177.4 (47.3)
Management and agency contracts (previous year)	170.2 (176.6)	170.2 (176.6)	0.0 (0.0)	0.0 (0.0)
- Thereof to affiliated or associated companies (previous year)	170.2 (176.6)	170.2 (176.6)	0.0 (0.0)	0.0 (0.0)
Other contracts, including service agreements (previous year)	25.3 (20.0)	20.6 (11.0)	4.7 (9.0)	0.0 (0.0)

Deutsche Börse AG issued a letter of comfort in favour of Eurex Clearing AG on 15 June 2016. In it, Deutsche Börse AG undertakes to provide Eurex Clearing AG with the financial resources it requires to meet its obligations. The maximum aggregate amount to be provided in accordance with the letter of comfort is €600 million. If Deutsche Börse AG makes payments to Eurex Clearing AG in the form of borrowed capital on the basis of the letter of comfort dated 15 June 2016, these payments will be made available to Eurex Clearing AG in the form of an interest-free loan. Third parties are not entitled to any rights under the letter of comfort. The letter of comfort issued by Deutsche Börse AG on 15 June 2016 replaced its letter of comfort dated 20 November 2012. Due to the risk management system implemented by Eurex Clearing AG, in particular the lines of defence, and the fact that Deutsche Börse AG has not been called upon in the event of defaults by

clearing participants or other situations in the past, Deutsche Börse AG currently believes that utilisation of the comfort letter is unlikely.

In addition, in accordance with section 5 (10) of the statute of the Deposit Protection Fund, an unlimited statement of commitment has been issued to Clearstream Banking AG, according to which Deutsche Börse AG indemnifies Bundesverband deutscher Banken e.V. from all potential loss claims.

Moreover, Deutsche Börse AG provides loan commitments in favour of affiliated companies and companies in which the Company has an equity interest of €98 million.

Provisions arising from deferred compensation were recognised in the balance sheet under employee expenses for individual subsidiaries. However, as Deutsche Börse AG has an obligation as a provider towards participating employees, a contingent liability of €51.9 million (previous year: €44.1 million) arises which is equivalent to the amount of the provisions made by the individual subsidiaries.

## Supervisory Board

The members of the Supervisory Board are:

**Dr Joachim Faber**  
Chairman

Independent management consultant, Grünwald

Other appointments

Coty Inc., New York  
(member of the Board of Directors) (until 30 Sep. 2019)  
Joh. A. Benckiser SARL, Luxembourg  
(chairman of the Committee of Shareholders) (until 30 Sep. 2019)  
Investcorp Holdings B.S.C., Bahrain  
(member of the Board of Directors) (since 23 Sep. 2019)

**Jutta Stuhlfauth**  
Deputy Chairwoman

Lawyer, M.B.A. (Wales) and group employee  
Organisational Services Department, Deutsche Börse AG, Frankfurt  
am Main

**Richard Berliand**  
(until 8 May 2019)

Independent management consultant, Lingfield

Other appointments

CloudMargin Limited, London  
Man Group Plc, London (member of the Board of Directors)  
Rothesay Life Holdco UK Limited, London (member of the Board of  
Directors) (until 28 Feb. 2019)  
Rothesay Life plc, London (member of the Board of Directors)  
(until 28 Feb. 2019)  
Saranac Partners Limited, London (member of the Board of Directors)  
TP ICAP, London (member of the Board of Directors)  
(since 19 Mar. 2019)

**Dr Nadine Absenger**

Head of Legal department, German Trade Union Confederation  
National Executive Board, Berlin

<b>Prof. Dr Dr Ann-Kristin Achleitner</b> (until 8 May 2019)	Scientific Co-Director of the Center for Entrepreneurial and Financial Studies (CEFS) at the Technical University of Munich (TUM), Munich  Holder of the professorship for Entrepreneurial Finance, Technical University of Munich (TUM), Munich
Supervisory Board appointments	Linde AG, Munich (member of the Supervisory Board) Münchener Rückversicherungsgesellschaft-Gesellschaft AG, Munich (member of the Supervisory Board)
Other appointments	ENGIE S.A., Paris (member of the Board of Directors) Linde plc, Dublin (member of the Board of Directors)
<b>Dr Markus Beck</b>	Legal Counsel, Group Legal & Regulatory Affairs, Deutsche Börse AG, Frankfurt/Main
<b>Karl-Heinz Flöther</b>	Independent management consultant, Kronberg
<b>Martin Jetter</b>	Mitglied des Management Boards, IBM Corporation; Senior Vice President IBM Corporation and Chairman IBM Europe, Madrid; IBM Global Technology Services, White Plains, New York
Supervisory board appointments	IBM Deutschland GmbH, Ehningen (Chairman of the Supervisory Board) IBM Central Holding GmbH, Ehningen (Chairman of the Supervisory Board) IBM Österreich Internationale Büromaschinen GmbH, Vienna (Chairman of the Supervisory Board)
Other appointments	IBM Japan Ltd, Tokyo (Chairman of the Board of Directors)
<b>Susann Just-Marx</b>	Senior Sales Manager, European Energy Exchange AG, Leipzig
<b>Achim Karle</b>	Employee in the Global Equity and Index Sales unit, Eurex Frankfurt AG, Frankfurt am Main
<b>Cornelis Johannes Nicolaas Kruijssen</b>	Employee in the Plan & Control unit, Deutsche Börse AG, Frankfurt am Main

<b>Barbara Lambert</b>	Independent management consultant, La Rippe
Other appointments	Banque Pictet & Cie, Geneva (member of the Board of Directors) Implenia AG, Dietlikon (member of the Board of Directors) (since 26 Mar. 2019)
<b>Prof. Dr Joachim Nagel</b>	Member of the Executive Board, KfW Group, Frankfurt am Main
Supervisory board appointments	Deutsche Investitions - und Entwicklungsgesellschaft GmbH, Cologne (First Deputy Chairman of the Supervisory Board) KfW IPEX-Bank GmbH, Frankfurt am Main (Chairman of the Supervisory Board)
<b>Dr Carsten Schäfer</b>	Employee in Group Risk Management, Deutsche Börse AG, Germany
<b>Charles G. T. Stonehill</b>	Green & blue Advisors LLC, founding partner, New York
Other appointments	Julius Baer Group Ltd. Zurich (member of the Board of Directors) Bank Julius Baer & Co. Ltd., Zurich (member of the Board of Directors) AXA Equitable Holdings Inc., New York (member of the Board of Directors) AXA Equitable Life Insurance Company, New York (member of the Board of Directors) AllianceBernstein Holdings L.P., New York (member of the Board of Directors) MONY Life Insurance Company of America, New York (member of the Board of Directors) Play Magnus AS, Oslo (member of the Board of Directors) CommonBond Inc. New York (member of the Board of Directors)
<b>Clara-Christina Streit</b>	Independent management consultant, Bielefeld
Supervisory board appointments	Vonovia SE, Bochum (member of the Supervisory Board)
Other appointments	Vontobel Holding AG, Zurich (member of the Board of Directors) NN Group NV, Den Haag (member of the Supervisory Board) Jeronimo Martins SGPS S.A., Lisbon (member of the Board of Directors)

<b>Gerd Tausendfreund</b>	Trade Union Secretary for Financial Services, ver.di national administration, Frankfurt am Main
<b>Amy Yip</b>	Partner , RAYS Capital Partners Limited, Hong Kong
Other appointments	AIG Insurance Hong Kong Limited, Hong Kong (member of the Board of Directors) Temenos Group AG, Geneva (member of the Board of Directors) Fidelity Funds SICAV, Luxembourg (member of the Board of Directors) Prudential Plc, London (member of the Board of Directors) (since 2 Sep. 2019)

In the year under review, the members of the Supervisory Board received remuneration of €2.3 million.

The Supervisory Board has established the following committees:

**Audit Committee**

Barbara Lambert (Chairwoman)  
Dr Nadine Absenger  
Dr Markus Beck  
Karl-Heinz Flöther  
Prof. Dr Joachim Nagel  
Jutta Stuhlfauth

**Nomination Committee**

Dr Joachim Faber (Chairman)  
Dr Markus Beck  
Richard Berliand (until 8 May 2019)  
Martin Jetter  
Jutta Stuhlfauth  
Gerd Tausendfreund  
Amy Yip (since 8 May 2019)

**Risk Committee**

Prof. Dr Joachim Nagel (Chairman)  
Barbara Lambert  
Susann Just-Marx  
Cornelis Johannes Nicolaas Kruijssen

### **Strategy Committee**

Dr Joachim Faber (Chairman)  
Prof. Dr Dr Ann-Kristin Achleitner (until 8 May 2019)  
Susann Just-Marx  
Achim Karle  
Dr Carsten Schäfer  
Charles Stonehill (since 8 May 2019)  
Clara Streit (since 8 May 2019)  
Amy Yip (until 8 May 2019)

### **Technology Committee**

Richard Berliand (Chairman) (until 8 May 2019)  
Martin Jetter (Chairman since 8 May 2019)  
Karl-Heinz Flöther  
Achim Karle  
Cornelis Johannes Nicolaas Kruijssen  
Dr Carsten Schäfer  
Amy Yip (since 8 May 2019)

### **Mediation Committee**

Dr Joachim Faber (Chairman)  
Karl-Heinz Flöther (since 8 May 2019)  
Martin Jetter (since 8 May 2019)  
Susann Just-Marx  
Jutta Stuhlfauth

### **General Committee**

Dr Joachim Faber (Chairman)  
Dr Nadine Absenger  
Richard Berliand (until 8 May 2019)  
Martin Jetter (since 8 May 2019)  
Jutta Stuhlfauth

### **Chairman Selection Committee (since 19 Sep. 2019)**

Barbara Lambert (Chairwoman)  
Dr Markus Beck  
Dr Joachim Faber  
Jutta Stuhlfauth  
Gerd Tausendfreund  
Amy Yip

## Executive Board

The members of the Executive Board are:

<b>Dr Theodor Weimer</b> Dr. rer. pol.	Chief Executive Officer
Supervisory board appointments	FC Bayern München AG, Munich (member of the Supervisory Board)
<b>Dr Thomas Book</b> Dr. rer. pol.	Member of the Executive Board of Deutsche Börse AG, responsible for Trading & Clearing since 1 Jul. 2018 Chief Executive Officer of Eurex Frankfurt AG Member of the management of Eurex Deutschland AG
Supervisory board appointments	360 Treasury Systems AG (Deputy Chairman of the Supervisory Board, since 17 May 2019) China Europe International Exchange AG (member of the Supervisory Board) European Energy Exchange AG, member of the Supervisory Board since 19 Mar. 2019, Chairman since 17 Apr. 2019
<b>Dr Christoph Böhm</b> Dr.- Ing.	Member of the Executive Board and Chief Information Officer/Chief Operating Officer
Supervisory board appointments	Clearstream Beteiligungs AG (member of the Supervisory Board until 12 Nov. 2019) Clearstream Holding AG (member of the Supervisory Board)
Other appointments	Clearstream Services S.A. (Deputy Chairman of the Supervisory Board) Qontigo GmbH, member of the Committee of Shareholders since 13 Sep. 2019
<b>Dr Stephan Leithner</b> Dr. oec. HSG	Member of the Executive Board, responsible for Post-Trading, Data Index
Supervisory board appointments	Clearstream Beteiligungs AG (Chairman of the Supervisory Board until 12 Nov. 2019) Clearstream Banking AG (Chairman of the Supervisory Board) Clearstream Holding AG (Chairman of the Supervisory Board)



Other appointments	Clearstream Banking S.A. (Chairman of the Supervisory Board) Clearstream International S.A. (Chairman of the Supervisory Board) Clearstream Services S.A. (Chairman of the Supervisory Board) Digital Asset Holdings, LLC (member of the Board of Directors) Qontigo GmbH, Chairman of the Committee of Shareholders since 13 Sep. 2019
<b>Gregor Pottmeyer</b> Business Administration graduate	Member of the Executive Board and Chief Financial Officer
Supervisory Board appointments	Clearstream Beteiligungs AG, (Deputy Chairman of the Supervisory Board) Clearstream Holding AG (Deputy Chairman of the Supervisory Board) Eurex Clearing AG (Deputy Chairman of the Supervisory Board) Eurex Frankfurt AG (Deputy Chairman of the Supervisory Board)
Other appointments	Clearstream Banking S.A. (Deputy Chairman of the Supervisory Board) Clearstream International S.A. (Deputy Chairman of the Supervisory Board)
<b>Hauke Stars</b> Diplom-Ing. IT Master of Science (M.Sc.)	Member of the Executive Board, Deutsche Börse AG Responsible for Cash Market, Pre-IPO & Growth Financing and HR/Labour Director Chairwoman of the Management Board, Frankfurter Wertpapierbörse
Supervisory board appointments	Eurex Frankfurt AG, (member of the Supervisory Board) Fresenius SE & Co. KgaA (member of the Supervisory Board)
Other appointments	Clearstream International S.A. (member of the Supervisory Board) Kuehne + Nagel International AG (member of the Board of Directors)

## Executive Board

In 2019, the total remuneration paid to members of the Executive Board amounted to €19.5 million.

The total compensation includes share-based remuneration of €4.0 million. The number of stock options in the amount of 37,040 is based on a Deutsche Börse AG share price of €108.36 per share as the average price during the calendar month December 2018.

For additional disclosures regarding Executive Board compensation, please see the Deutsche Börse AG management report.

The remuneration paid to former Executive Board members and their surviving dependants amounted to €9.7 million in 2019. Provisions totalling €84.8 million have been set aside for pension obligations to former Executive Board members and their surviving dependants.

## Employees

As at 31 December 2019, the number of employees at Deutsche Börse AG was 1,515 (previous year: 1,469). The average number of employees during financial year 2019 was 1,472 (previous year: 1,437).

	Male	Female	Total
Management employees	99	20	119
Non-management employees	848	505	1,353
<b>Number of employees</b>	<b>947</b>	<b>525</b>	<b>1,472</b>

### **Intercompany agreements**

As part of the profit transfer agreement concluded between Clearstream Holding AG and Deutsche Börse AG on 4 March 2008, Clearstream Holding AG is obliged to transfer its entire net income for the year to Deutsche Börse AG, less any losses carried forward from the previous year and the amount to be added to the reserves, as required by section 300 of the AktG. Simultaneously, Deutsche Börse AG is required to equalise any losses incurred at Clearstream Holding AG during the year through loss absorption, provided that such losses have not already been balanced by transfers from other retained earnings added during the term of the contract.

On 2 March 2010, Deutsche Börse AG entered into a control agreement (“Beherrschungsvertrag”) with Clearstream Banking AG. As part of this agreement, Clearstream Banking Aktiengesellschaft subordinates the management of its company to Deutsche Börse AG, and Deutsche Börse AG has the right to give instructions to the Executive Board of Clearstream Banking AG with respect to the management of the company.

### **Combined management report**

The management report of Deutsche Börse AG and the management report on the consolidated financial statements of Deutsche Börse AG have been summarised in accordance with section 315 (5) HGB in conjunction with section 298 (2) HGB and German Accounting Standard (GAS) 20 (22).

### **Group structure**

Deutsche Börse AG, which has its registered office in Frankfurt/Main, Germany, prepares consolidated financial statements in accordance with International Financial Reporting Standards. The consolidated financial statements are published in the electronic version of the German Federal Gazette and are also available at the Company’s premises.

## Ownership structure

Deutsche Börse AG received the following notifications in accordance with section 40 of the Wertpapierhandelsgesetz (WpHG, German Securities Trading Act):

Discloser	Domicile and country in which the domicile or place of residence of the discloser is located	Date investment reached, exceed or fell below threshold	Over- under- stepping (+/-)	Reporting threshold	Attribution in accordance with sections	Investment (%)	Investment (voting rights)
Deutsche Börse AG	Frankfurt am Main, Deutschland	22/11/2018	-	5,00%	keine Angabe	3,50%	6.652.955
Artisan Partners Asset Management	Wilmington, USA	28/11/2018	-	5,00%		4,99%	3.498.062
Artisan Partners Funds, Inc	Madison, USA	19/09/2018	-	5,00%	\$\$ 21,22 WpHG \$ 25 Abs. 1Nr. 1/2 WpHG	3,00% 0,00%	5.787.032 0
BlackRock Advisors Holdings, Inc.	New York, USA	01.12.2009	+	3,00%	\$\$ 21,22 WpHG i.V.m. \$ 25 Abs. 1Nr. 1/2 WpHG	0,00%	0
BlackRock Delaware Holding, Inc	Wilmington, USA	19.05.2015	+	3,00%	\$ 22 Abs. 1 Satz 1 Nr. 6 i.V.m. \$ 22 Abs. 1 Satz 2 WpHG	3,35%	6.526.163
BlackRock Financial Management, Inc.	Wilmington, USA	27/10/2015	+	5,00%	\$ 22 Abs. 1 Satz 1 Nr. 1 WpHG	3,01%	5.799.497
BlackRock Group Limited	London, Großbritannien	07.12.2012	+	3,00%	\$ 22 Abs. 1 Satz 1 Nr. 6 i.V.m. \$ 22 Abs. 1 Satz 2 WpHG	0,93%	1.787.637
BlackRock Holdco 2, Inc.	Wilmington, USA	27/10/2015	+	5,00%	\$ 22 Abs. 1 Satz 1 Nr. 6 i.V.m. \$ 22 Abs. 1 Satz 2 WpHG	2,08%	4.011.860
BlackRock Holdco 4, Inc.	Wilmington, USA	19.05.2015	+	3,00%	\$ 25 WpHG	5,51%	10.632.040
BlackRock Holdco 6, Inc.	Wilmington, USA	19.05.2015	+	3,00%	\$\$ 21,22 WpHG	0,20%	380.000
BlackRock, Inc.	Wilmington, USA	19/11/2018	+	5,00%	\$ 22 Abs. 1 Satz 1 Nr. 6 i.V.m. \$ 22 Abs. 1 Satz 2 WpHG	5,31%	10.252.040
BlackRock International Holdings, Inc.	New York, USA	02.08.2012	+	3,00%	\$ 22 Abs. 1 Satz 1 Nr. 1 WpHG	3,01%	5.799.497
BR Jersey International Holdings, L.P.	St. Helier, Jersey, Kanalinseln	08.02.2012	+	3,00%	\$ 22 Abs. 1 Satz 1 Nr. 6 i.V.m. \$ 22 Abs. 1 Satz 2 WpHG	0,93%	1.787.637
FIL Limited	Pembroke, Bermuda	15/05/2018	+	3,00%	\$ 22 Abs. 1 Satz 1 Nr. 6 WpHG	2,08%	4.011.860
Invesco Limited	Hamilton, Bermuda	14/03/2018	-	3,00%	\$ 22 Abs. 1 Satz 1 Nr. 6 i.V.m. \$ 22 Abs. 1 Satz 2 WpHG	3,01%	5.799.497
Invesco Advisers, Inc	Wilmington, USA	21.10.2015	+	3,00%	\$ 22 Abs. 1 Satz 1 Nr. 6 WpHG	0,93%	1.787.637
Invesco Group Services, Inc	Wilmington, USA	21.10.2015	+	3,00%	\$ 22 Abs. 1 Satz 1 Nr. 6 i.V.m. \$ 22 Abs. 1 Satz 2 WpHG	2,08%	4.011.860
Invesco Holding Company Limited	Henley, Großbritannien	21.10.2015	+	3,00%	\$ 22 Abs. 1 Satz 1 Nr. 1 WpHG	6,70%	12.934.306
Invesco North American Holdings Inc	Wilmington, USA	21.10.2015	+	3,00%	\$ 22 Abs. 1 Satz 1 Nr. 6 i.V.m. \$ 22 Abs. 1 Satz 2 WpHG	0,11%	223.161
Ivesco Management Group, Inc	Wilmington, USA	21.10.2015	+	3,00%	\$\$ 21,22 WpHG	6,59%	12.711.145
IVZ, Inc.	Wilmington, USA	21.10.2015	+	3,00%	\$ 22 Abs. 1 Satz 1 Nr. 6 i.V.m. \$ 22 Abs. 1 Satz 2 WpHG	3,58%	6.981.055
IVZ UK Limited	Henley, Großbritannien	21.10.2015	+	3,00%	\$ 22 Abs. 1 Satz 1 Nr. 6 i.V.m. \$ 22 Abs. 1 Satz 2 WpHG	3,58%	6.981.055
Jupiter Fund Management plc UK	London, Großbritannien	08.05.2019	+	3,00%	\$ 22 Abs. 1 Satz 1 Nr. 6 WpHG	3,11%	6.007.175
Morgan Stanley	Wilmington, USA	21.05.2013	-	5,00%	\$ 21,22 WpHG	2,94%	5.689.975
Morgan Stanley International Holdings	Wilmington, USA	21.05.2013	-	5,00%	\$ 22 Abs. 1 Satz 1 Nr. 6 WpHG	3,01%	5.804.518
Morgan Stanley International Limited	London, Großbritannien	21.05.2013	-	5,00%	\$ 22 Abs. 1 Satz 1 Nr. 6 i.V.m. \$ 22 Abs. 1 Satz 2 WpHG	3,01%	5.804.518
Morgan Stanley Group Europe	London, Großbritannien	21.05.2013	-	5,00%	\$ 25a WpHG	3,01%	5.804.518
Morgan Stanley UK Group	London, Großbritannien	21.05.2013	-	5,00%	\$ 22 Abs. 1 Satz 1 Nr. 6 i.V.m. \$ 22 Abs. 1 Satz 2 WpHG	3,01%	5.804.518
Morgan Stanley & Co International Plc	London, Großbritannien	21.05.2013	-	5,00%	\$ 22 Abs. 1 Satz 1 Nr. 6 i.V.m. \$ 22 Abs. 1 Satz 2 WpHG	3,01%	5.804.518
Societe General S.A	Paris, Frankreich	02.10.2015	-	5,00%	\$ 21,25 Abs. 1Nr. 1 und Nr. 2 WpHG	4,11%	7.926.928
Societe General Effekten GmbH	Frankfurt am Main, Deutschland	10.08.2015	-	5,00%	\$ 21,22 WpHG	0,23%	448.039
UBS AG	Zürich, Schweiz	20.05.2014	-	5,00%	\$ 25 WpHG	0,25%	489.195
					\$ 25a WpHG	3,62%	6.989.694
					\$ 21,22 WpHG	4,01%	7.734.733
					\$ 25 WpHG	0,21%	403.568
					\$ 25a WpHG	0,18%	341.471
					\$ 25a WpHG	3,62%	6.989.694
					\$ 21,22 WpHG	3,70%	7.138.902
					\$ 25a WpHG	0,21%	403.568
					\$ 25a WpHG	3,49%	6.735.334
					\$ 21,22 WpHG	3,70%	7.138.902
					\$ 25a WpHG	0,21%	403.568
					\$ 25a WpHG	3,49%	6.735.334
					\$ 21,22 WpHG	3,70%	7.138.902
					\$ 25a WpHG	0,21%	403.568
					\$ 25a WpHG	3,49%	6.735.334
					\$ 25a WpHG	4,46%	8.614.620
					\$ 25 WpHG	4,44%	8.570.359
					\$ 25 WpHG	0,02%	44.261
					\$ 25a WpHG	4,93%	9.505.422
					\$ 21,22 WpHG	4,60%	8.882.666
					\$ 25 WpHG	2,52%	4.865.398
					\$ 25a WpHG	1,39%	2.687.268
					\$ 25a WpHG	0,63%	1.330.000

## **German corporate governance code**

On 10 December 2019, the Executive Board and the Supervisory Board jointly issued the updated declaration of conformity in accordance with section 161 AktG and made it available to shareholders on a permanent basis on the website of Deutsche Börse Aktiengesellschaft.

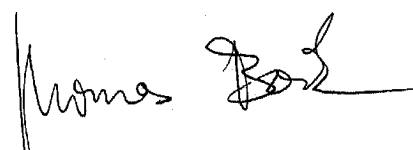
Frankfurt/Main, 2 March 2020

Deutsche Börse Aktiengesellschaft

The Executive Board

  
Dr Theodor Weimer

  
Dr Christoph Böhm

  
Dr Thomas Book

  
Dr Stephan Leithner

  
Gregor Pottmeyer

  
Hauke Stars

Deutsche Börse AG

Combined management report as at 31 December 2019

# Combined management report

This combined management report covers both Deutsche Börse Group and Deutsche Börse AG and includes the combined non-financial statements according to the CSR Directive. It follows the requirements of the Handelsgesetzbuch (HGB, German Commercial Code) and the Deutscher Rechnungslegungs Standard Nr. 20 (DRS 20, German Accounting Standard No. 20).

## Fundamental information about the Group

### Overview of Deutsche Börse Group

#### Business operations and Group structure

Deutsche Börse AG, which is headquartered in Frankfurt/Main, Germany, is the parent company of Deutsche Börse Group. As at 31 December 2019, Deutsche Börse Group employed a total of 6,775 staff (31 December 2018: 5,640), having 105 nationalities at 41 locations in 27 countries around the globe. As one of the largest providers of market infrastructure worldwide, the Group offers a broad product and service range to its clients. These cover the entire financial market transaction process chain: from the provision of market information, indices and analytical solutions (pre-trading), the trading and clearing services on which these are based, and the settlement of transactions right through to the custody of securities and funds, as well as services for liquidity and collateral management (post-trading), related services for trading and clearing as well as settlement of orders right through to custody of securities and funds, as well as services for liquidity and collateral management (post-trading). The Group also develops and operates the IT systems that support all of these processes.

Deutsche Börse AG markets the price and reference data of the systems and platforms of Deutsche Börse Group as well as any other trading-relevant information. In addition, it develops and markets indices and analytics solutions via its subsidiary Qontigo GmbH. Furthermore, Deutsche Börse AG operates the Eurex Exchange futures and options market via Eurex Frankfurt AG. Commodities spot and derivatives markets are operated by the Group's direct subsidiary European Energy Exchange AG (EEX). Via its subsidiary 360 Treasury Systems AG (360T), Deutsche Börse AG offers a platform for foreign exchange trading. The Group also operates the cash market at Frankfurter Wertpapierbörse (Frankfurt Stock Exchange – FWB®), with its fully electronic trading venue Xetra®, as well as offering trading in structured products (certificates and warrants) in Germany via the Börse Frankfurt Zertifikate AG exchange. The Group also offers clearing services for the cash and derivatives markets (Eurex Clearing AG). All post-trading services that Deutsche Börse Group provides for securities are handled by Clearstream Holding AG and its subsidiaries (Clearstream Holding group). These include transaction settlement, the administration and custody of securities, as well as services for investment funds and global securities financing. Deutsche Börse AG and Clearstream Services S.A. develop and operate Deutsche Börse Group's technological infrastructure.

Deutsche Börse Group's full group of consolidated entities is set out in [note 34 to the consolidated financial statements](#).



## Reporting segments

Deutsche Börse Group's business is divided into nine segments: Eurex (financial derivatives), EEX (commodities), 360T (foreign exchange), Xetra (securities trading), Clearstream (post-trading), IFS (investment fund services), GSF (collateral management), Qontigo (index and analytics business) and Data (data business).

This structure serves as a basis for the Group's internal management and financial reporting (see the following table entitled "Deutsche Börse Group's reporting segments" for details).

---

### Deutsche Börse Group's reporting segments

Reporting segment	Business areas
Eurex (financial derivatives)	<ul style="list-style-type: none"><li>§ Electronic trading of derivatives (Eurex Exchange)</li><li>§ Eurex Repo<sup>®</sup> OTC trading platform</li><li>§ C7<sup>®</sup> electronic clearing architecture</li><li>§ Central counterparty for on- and off-exchange derivatives and repo transactions</li></ul>
EEX (commodities)	<ul style="list-style-type: none"><li>§ Electronic trading of electricity and gas products as well as emission rights (EEX group)</li><li>§ Central counterparty for traded cash market and derivative products</li></ul>
360T (foreign exchange)	<ul style="list-style-type: none"><li>§ Electronic trading of foreign exchange (360T<sup>®</sup>)</li><li>§ Central counterparty for OTC and exchange-traded derivatives</li></ul>
Xetra (securities trading)	<ul style="list-style-type: none"><li>§ Cash market with the trading venues Xetra<sup>®</sup>, Börse Frankfurt and Tradegate</li><li>§ Central counterparty for equities and bonds</li><li>§ Listing</li></ul>
Clearstream (post-trading)	<ul style="list-style-type: none"><li>§ Custody and settlement of securities</li></ul>
IFS (Investment Fund Services)	<ul style="list-style-type: none"><li>§ Investment fund services (order routing, settlement and custody)</li></ul>
GSF (collateral management)	<ul style="list-style-type: none"><li>§ Services for global securities finance and collateral management as well as collateralised money market transactions, repo and securities lending transactions</li></ul>
Qontigo (index and analytics business)	<ul style="list-style-type: none"><li>§ Development and marketing of indices (STOXX<sup>®</sup> and DAX<sup>®</sup>)</li><li>§ Innovative portfolio management and risk analysis software</li></ul>
Data (data business)	<ul style="list-style-type: none"><li>§ Marketing of licences for trading and market signals</li><li>§ Technology and reporting solutions for external clients</li><li>§ Link-up of trading participants</li></ul>

## Management

The governing bodies of Deutsche Börse AG, which is a German stock corporation, are the Annual General Meeting, the Supervisory Board and the Executive Board, each of which has its own areas of responsibility.

The Annual General Meeting rules on the appropriation of the unappropriated surplus, appoints the shareholder representatives on the Supervisory Board and approves the actions of the Executive Board and the Supervisory Board. In addition, it rules on corporate actions and other matters governed by the Aktiengesetz (AktG, German Stock Corporation Act).

The Supervisory Board appoints, supervises and advises the members of the Management Board, and is directly involved in decisions of fundamental importance to the Group. Additionally, it approves the consolidated financial statements prepared by the Executive Board. Members of the Supervisory Board are appointed for a period of three years, although the Annual General Meeting may determine a shorter term of office when electing members. As Deutsche Börse AG has more than 2,000 employees in Germany, members of the Supervisory Board must be appointed in accordance with the provisions of the Mitbestimmungsgesetz (German Co-Determination Act). Deutsche Börse's Supervisory Board comprises eight shareholder representatives and eight employee representatives in order to meet the growing demands placed upon Supervisory Board members in connection with the Company's growth and that of the Group as a whole, particularly with regard to the diversity and internationalisation of Supervisory Board work. Further details can be viewed in the ["Combined declaration on corporate management and corporate governance report"](#) section.

The Executive Board manages the company at its own responsibility; the Chief Executive Officer (CEO) coordinates the activities of the Executive Board members. In the 2019 financial year, the Executive Board of Deutsche Börse AG comprised six members. The remuneration system and the remuneration paid to individual members of the Executive Board of Deutsche Börse AG is explained in more detail in [the remuneration report](#).

## Organisational structure

The responsibilities of the Chief Executive Officer (CEO) include the Group's strategy, M&A activities, communications, legal affairs as well as regulatory matters, and Group Audit. The duties of the Chief Financial Officer (CFO) comprise, among other things, financial reporting and controlling, risk management, compliance and investor relations. The Trading & Clearing division bundles derivatives trading and the clearing houses of Deutsche Börse Group. The electronic foreign exchange trading platform 360T<sup>®</sup>, as well as EEX Group, also belong to this division. The Post-Trading, Data & Index division includes Clearstream's settlement and custody business, the reporting segments IFS (Investment Fund Services), and GSF (Collateral Management), as well as the data, index and analytics businesses. Deutsche Börse Group's cash market businesses – comprising the trading venues Xetra, Frankfurt Stock Exchange, and the certificates and warrants business – are assigned to the Cash Market, Pre-IPO & Growth Financing division. The division is also responsible for building up a pre-IPO market, establishing tools for growth financing. Human Resources completes this area of responsibility. The Chief Information Officer/Chief Operating Officer (CIO/COO) division combines Deutsche Börse Group's IT activities and market operations. Technological transformation and digitalisation are the key areas of focus for this division.

## Objectives and strategies

### Deutsche Börse Group's objectives and strategies

Deutsche Börse Group is one of the largest market infrastructure providers worldwide. The Group's business model contributes the capital markets' stability, efficiency and integrity. This benefits issuers in the form of low costs of raising capital and investors in the form of high liquidity and low transaction costs. At the same time, Deutsche Börse stands for transparent, secure capital markets in which organised trading is based on free price formation.

Deutsche Börse Group's business model is geared towards a diversified product and service offer that covers the entire value chain of financial market transactions. The Group's diversified business model is based on the following key elements:

- Integrating different financial market services such as trading, clearing, settlement, securities custody, liquidity and collateral management, as well as index, analytics and market data services
- Providing these services for various asset classes such as equities, bonds, funds, commodities, foreign exchange, interest rates, and derivatives products based on these underlyings
- Developing and operating proprietary electronic systems for all processes along the value creation chain
- Organising an impartial marketplace to ensure orderly, supervised trading with fair price formation, plus providing risk management services

In order to maintain and expand its leading position among exchange organisations, Deutsche Börse Group is pursuing the "Roadmap 2020" growth strategy. To achieve this strategic objective, Deutsche Börse is focusing on generating structural, organic growth, while at the same time accelerating non-organic growth through acquisitions in five defined business areas. The third pillar of the strategy is to strengthen and further expand its position in the IT area.

As part of an ongoing process, the Group is reviewing its organic growth initiatives, focusing in particular on expansion into markets and asset classes characterised by structural growth, while attaching great importance to ensuring that the initiatives launched are implemented in a consistent, successful manner. Please refer to the report on opportunities for the key initiatives and growth drivers. Moreover, the remuneration system for the Executive Board and executive staff has created a number of incentives for growth in the individual business divisions. Please refer to the [remuneration report](#) for a detailed description of all targets. As far as external growth opportunities are concerned, the focus is on strengthening existing high-growth areas, and on exploring new asset classes and services.

Deutsche Börse has a scalable business model, which permits higher business volumes to be achieved at relatively low additional cost. This means that, with a strong business performance and organic or external growth, revenue growth will exceed cost increases. To reinforce the scalability of its business model, the Group has introduced clear targets for net revenue and profit growth. Based on its current business portfolio, the Group anticipates structurally driven net revenue growth of at least 5 per cent a year between 2017 and 2020. With regard to net income for the period attributable to Deutsche Börse AG shareholders, the Group is targeting an average annual growth rate of 10 to 15 per cent over the same period. So far, during the course of implementing this growth strategy, the Group has managed to achieve or even exceed these targets.

Among the factors that have a significant impact on Deutsche Börse Group's organic growth are:

- Regulatory requirements affecting all market participants: if regulatory initiatives (such as EMIR, MiFIR and CRR/CRD) strengthen the role of exchanges, this will also benefit Deutsche Börse Group.
- Structural changes in the financial markets: e.g. trading activity increases if investment funds make greater use of derivatives to implement their trading strategies.
- Innovative strength: If Deutsche Börse Group succeeds in continuously introducing new products and services for which there is market demand, the Group will be in a position to further expand its business.
- The cyclical nature of financial markets: For example, increased stock market volatility typically leads to higher levels of trading in the cash and derivatives markets, and rising interest rates tend to drive up net interest income and trading volumes in interest rate derivatives.

Deutsche Börse Group is committed to maintaining transparent, reliable and liquid financial markets, although it cannot control the volume drivers for these markets, i.e. cyclical factors. The Group can influence the other factors either wholly or partially; for instance, it can lobby for a favourable legal framework for the financial markets, or it can develop products and services that support clients' business. This also enables it to reduce dependence on those factors beyond its control.

#### Management approach for a Group-wide commitment to sustainability

One of Deutsche Börse Group's objectives and strategies is to take a holistic approach to corporate responsibility. Its management approach is therefore guided by three action-led principles that aim to sustainably strengthen and preserve the value that Deutsche Börse Group adds to the economy and society:

- Building trust. Deutsche Börse Group aims to organise the capital markets in a way that ensures their integrity, transparency and security. The availability of high-quality information is a key aspect in this process and something that the Group is working on constantly to enhance. In this context, providing sustainability information is as significant as engaging in a constructive dialogue on the future viability of the international capital markets with our customers but also with the general public.
- Leading by example. As a listed service provider, Deutsche Börse Group aims to ensure that its own corporate activities are conducted responsibly and with a view to the future. In addition, the Group pursues a sustainable human resources policy and is committed to the environment and hence to conserving resources. It enhances its commitment to sustainability and related reporting on an ongoing basis in order to establish itself as a long-term role model on the market.
- Increasing public awareness. The Group is part of civil society and as such has a responsibility towards it. It is committed to fulfilling this role both in Germany and in its international locations. It systematically bases its actions on local requirements and, as a good corporate citizen, takes part in long-term cooperative initiatives aimed at strengthening structures in the non-profit sector.

In 2016, Deutsche Börse established a Group Sustainability Board to continuously develop the Group-wide sustainability strategy along the entire value chain and advise the Executive Board on sustainability issues. The Board convenes twice a year and in 2019 its members comprised twelve representatives of the Executive Board divisions, plus the Head of Group Sustainability and one Executive Board member.

## Internal management

### Management systems

Deutsche Börse Group's internal management system is generally based on key performance indicators taken from the consolidated income statement (net revenue; operating costs excluding depreciation, amortisation and impairment losses; EBITDA; Group's net profit for the period attributable to Deutsche Börse AG shareholders), as well as on various parameters derived from the consolidated statement of financial position and the consolidated statement of cash flows (cash flows from operating activities, liquidity, equity less intangible assets). In addition, the system includes key performance indicators derived from the adjusted income statement and balance sheet (net debt/EBITDA ratio and return on shareholders' equity). Details on the components of the income statement are shown in the table [☞ "Consolidated income statement"](#).

The most significant performance indicators to manage the Group's results of operations include the secular net revenue growth and the adjusted net profit for the period attributable to Deutsche Börse AG shareholders. The performance indicators derived from the statement of financial position and the statement of cash flows include cash flows from operating activities and equity less intangible assets. In addition, Deutsche Börse Group's target is to primarily meet its operating liquidity requirements from internal financing with a view towards maintaining sufficient liquidity in order to be able to meet all of the Group's payment obligations when due. There is no set target for the Group's management KPI of equity less intangible assets; rather, the objective is to maintain a positive figure.

At Group level, a net debt/EBITDA ratio not exceeding 1.75 and free funds from operations (FFO) relative to net debt greater than or equal to 50 per cent is also targeted in order to achieve the "minimum financial risk profile" consistent with the current AA rating in accordance with S&P Global Ratings methodology. In addition, an interest coverage ratio of at least 14 is targeted for Deutsche Börse Group using this methodology.

Group projects are prioritised and steered using strategic and financial criteria, taking project-specific risks into account. The main criterion used to assess the strategic attractiveness of projects is their (expected) contribution to the strategic objectives for Deutsche Börse Group and its business areas. The main financial criteria are key performance indicators such as net present value (NPV), the payback period and the return after tax, which are calculated on the basis of the project or business plans, which are calculated on the basis of the project or business plans. Risks are monitored at all levels of project work, i.e. both when prioritising and steering projects and during ongoing project management.

Details concerning the non-financial performance indicators used by Deutsche Börse Group are outlined in the [☞ "Combined non-financial statement"](#) section.

### Internal control system as part of the financial reporting process

Deutsche Börse has established a Group-wide internal control system (ICS). The ICS comprises rules to manage the company's activities as well as guidelines defining how compliance with these rules is monitored. The principles of the Group-wide ICS are also applied in partially decentralized units of Deutsche Börse Group. Monitoring tasks are implemented through process-integrated measures (such as organisational safeguards and controls) as well as through process-independent measures. All business divisions are responsible for ensuring that Group-wide ICS requirements are met in their respective areas of responsibility.

The purpose of the accounting-related ICS is to ensure orderly accounting practices. The central Financial Accounting and Controlling (FA&C) division, together with decentralised units acting on the requirements set out by FA&C, are responsible for preparing the accounts at Deutsche Börse AG and its consolidated subsidiaries. Group Tax is responsible for determining tax items for accounting purposes. The relevant department heads are responsible for the related processes, including effective security and control measures. The aim is to ensure that risks relating to the accounting process are identified early on, so that remedial action can be taken in good time.

In order to assure uniform and consistent accounting, FA&C provides regularly updated accounting manuals and guidelines and work instructions for the material accounting processes – as part of the preparation of the annual and consolidated financial statements of Deutsche Börse AG. All employees in the FA&C area, as well as in decentral units, have access to these documents and the accounting and account assignment guidelines, allowing them to see for themselves the scope of managerial discretion and accounting options Deutsche Börse Group exercises.

Moreover, Deutsche Börse Group continuously monitors and analyses changes in the accounting environment and adjusts its processes in line with them. This applies in particular to national and international accounting standards.

Another key component of the ICS is the principle of segregation of duties: tasks and authorities are clearly assigned and separated from each other in organisational terms. Incompatible tasks – such as modifying master data on the one hand and issuing payment instructions on the other – are strictly segregated at a functional level. An independent control unit grants individual employees access rights to the accounting system and continuously monitors these permissions using a so-called incompatibility matrix. Transactions are initially recorded in the general ledger or the appropriate sub ledgers on the basis of the chart of accounts and the account allocation guidelines.

Major Deutsche Börse Group subsidiaries maintain and consolidate their general ledgers in the same system. Accounting data from other companies is uploaded for inclusion in the consolidated financial statements. Liabilities, expenses and income for individual transactions are recorded in separate accounts under the name of the counterparty concerned. Any consolidation differences are reviewed centrally and sent to the accounting departments of the companies concerned for clarification.

The processes, systems and controls described above aim to provide reasonable assurance that the accounting system complies with the applicable principles and laws. In addition, Compliance and Internal Audit act as a further line of defence, performing risk-based, process-independent controls on whether the ICS is appropriate and effective. The Executive Board and the Audit Committee established by the Supervisory Board receive regular reports on the effectiveness of the ICS with respect to the financial reporting process.

## Takeover-related disclosures

Disclosures in accordance with sections 289a (1) and 315a (1) of the German Commercial Code (HGB) and explanatory notes

In accordance with sections 289a (1) and 315a (1) of the German Commercial Code (HGB, Handelsgesetzbuch), in conjunction with section 83 (1) sentence 2 of the Introductory Act to the German Commercial Code (EGHGB, Einführungsgesetz zum Handelsgesetzbuch), Deutsche Börse AG hereby makes the following disclosures as at 31 December 2019:

The share capital of Deutsche Börse AG amounted to €190.0 million on the above-mentioned reporting date and was composed of 190 million no-par value registered shares. There are no other classes of shares besides these ordinary shares.

The share capital has been contingently increased by up to €17.8 million by issuing up to 17.8 million no-par value registered shares (contingent capital 2019). The contingent capital increase will only be implemented to the extent that holders of convertible bonds or of warrants attaching to bonds with warrants issued by the Company or by a Group company in the period until 7 May 2024 on the basis of the authorisation granted to the Executive Board by resolution of the Annual General Meeting of 8 May 2019 on Item 8 (b) of the agenda exercise their conversion or option rights, that they meet their conversion or option obligations, or that shares are tendered, and no other means are used to settle such rights or obligations. More details can be found in Article 4 (7) of the Articles of Association of Deutsche Börse AG.

The Executive Board is only aware of those restrictions on voting rights that arise from the Aktiengesetz (AktG, German Stock Corporation Act). Therefore, those shares affected by section 136 of the AktG are excluded from voting rights. Furthermore, shares held by Deutsche Börse AG as treasury shares are exempted from the exercise of any rights according to section 71b of the AktG.

Under the Wertpapierhandelsgesetz (WpHG, German Securities Trading Act), any investor whose shareholding reaches, exceeds or falls below specified voting right thresholds as a result of purchase, sale or any other transaction is required to notify the company and the Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin, German Federal Financial Supervisory Authority). The lowest threshold for this disclosure requirement is 3 per cent. Deutsche Börse AG is not aware of any direct or indirect equity interests in its capital exceeding 10 per cent of the voting rights.

There are no shares with special rights granting the holder supervisory powers.

Employees holding shares in Deutsche Börse AG exercise their rights in the same way as other shareholders in accordance with the statutory provisions and the Articles of Association.

Members of the Executive Board are appointed and dismissed in accordance with sections 84 and 85 of the AktG and with Article 6 of the Articles of Association of Deutsche Börse AG. Amendments to the Articles of Association of Deutsche Börse AG are adopted by resolution of the Annual General Meeting in accordance with section 119 (1) No. 6 of the AktG (amended). Under Article 12 (4) of the Articles of Association of Deutsche Börse AG, the Supervisory Board has the power to make changes to the Articles of Association that relate to the wording only. In accordance with Article 18 (1) of the Articles of Association of Deutsche Börse AG, resolutions of the Annual General Meeting are passed by a simple majority of the votes cast, unless otherwise mandated by the AktG. Insofar as the AktG additionally prescribes a majority of the share capital represented at the time of a resolution, a simple majority of the share capital represented is sufficient where this is legally permissible.



Subject to the approval of the Supervisory Board, the Executive Board is authorised to increase the share capital by up to a total of €13.3 million on one or more occasions in the period up to 10 May 2021 by issuing new no-par value registered shares in exchange for cash and/or non-cash contributions (authorised capital I). Shareholders must be granted pre-emptive rights. However, subject to approval by the Supervisory Board, the Executive Board may exclude shareholders' pre-emptive rights with respect to fractional amounts. According to the authorisation, however, the Executive Board may only exclude shareholders' pre-emptive rights if the total number of shares issued during the term of authorisation and that exclude shareholders' pre-emptive rights does not exceed 20 per cent of the share capital. Full authorisation, and particularly the conditions under which shareholders' pre-emptive rights can be excluded, is derived from Article 4 (3) of the Articles of Association of Deutsche Börse AG.

The Executive Board is also authorised to increase the share capital by up to a total of €19.3 million on one or more occasions in the period up to 12 May 2020, subject to the approval of the Supervisory Board, by issuing new no-par value registered shares against cash and/or non-cash contributions (authorised capital II). Shareholders must be granted pre-emptive rights, which the Executive Board can disapply in certain cases, subject to the approval of the Supervisory Board in each case. The Executive Board is authorised to exclude shareholders' pre-emptive rights: (1) in the case of cash capital increases, provided that the issue price of the new shares is not significantly lower than the prevailing exchange price, and the total number of shares issued under exclusion of shareholders' pre-emptive rights does not exceed 10 per cent of the share capital; (2) in the case of physical capital increases in exchange for non-cash contributions for the purpose of acquiring companies, parts of companies, interests in companies, or other assets; or (3) with respect to fractional amounts. However, according to the authorisation, the Executive Board may only exclude shareholders' pre-emptive rights if the total number of shares that are issued during the term of authorisation and that exclude shareholders' pre-emptive rights does not exceed 20 per cent of the share capital. Full authorisation, and particularly the conditions under which shareholders' pre-emptive rights can be excluded, is derived from Article 4 (4) of the Articles of Association of Deutsche Börse AG.

In addition, the Executive Board is authorised to increase the share capital by up to a total of €38.6 million on one or more occasions in the period up to 12 May 2020, subject to the approval of the Supervisory Board, by issuing new no-par value registered shares in exchange for cash contributions (authorised capital III). Shareholders must be granted pre-emptive rights, which the Executive Board can exclude, subject to the approval of the Supervisory Board, only for fractional amounts. However, according to the authorisation, the Executive Board may only exclude shareholders' pre-emptive rights if the total number of shares that are issued during the term of authorisation and that exclude shareholders' pre-emptive rights does not exceed 20 per cent of the share capital. The exact content of this authorisation is derived from Article 4 (5) of the Articles of Association of Deutsche Börse AG.

Furthermore, the Executive Board is authorised to increase the share capital by up to a total of €6.0 million on one or more occasions in the period up to 16 May 2022, subject to the approval of the Supervisory Board, by issuing new no-par value registered shares against cash and/or non-cash contributions (authorised capital IV). Shareholders must be granted pre-emptive rights unless the Executive Board makes use of the authorisation granted to it to disapply such rights, subject to the approval of the Supervisory Board. The Executive Board is authorised to disapply shareholders' pre-emptive rights for fractional amounts with the approval of the Supervisory Board. However, according to the authorisation, the Executive Board may only exclude shareholders' pre-emptive rights if the total number of shares issued during the term of the authorisation, excluding pre-emptive rights, does not exceed 20 per cent of the share capital. Full authorisation is derived from Article 4 (6) of the Articles of Association of Deutsche Börse AG.



The Executive Board is authorised to acquire treasury shares up to 10 per cent of the share capital. However, the acquired shares, together with any treasury shares acquired for other reasons that are held by the Company or attributed to it in accordance with sections 71a et seq. of the AktG, may at no time exceed 10 per cent of the Company's share capital. The authorisation to acquire treasury shares is valid until 7 May 2024 and may be exercised by the company in full or in part on one or more occasions. However, it may also be exercised by dependent companies, by companies in which Deutsche Börse AG holds a majority interest or by third parties on its or their behalf. The Executive Board may elect to acquire the shares (1) on the stock exchange, (2) via a public tender offer addressed to all shareholders or via a public request for offers of sale addressed to the company's shareholders, (3) by issuing tender rights to shareholders or (4) using derivatives (put options, call options, forward purchases or a combination of put options, call options and forward purchases). The full and exact wording of the authorisation to acquire treasury shares, and particularly the permissible uses to which the shares may be put, can be found in items 6 and 7 of the agenda for the Annual General Meeting held on 8 May 2019.

The following material agreements of the Company are subject to a change of control following a takeover bid:

- On 28 March 2017, Deutsche Börse AG and its subsidiary Clearstream Banking S.A. entered into a multicurrency revolving facility agreement with a banking syndicate for a working capital credit totalling up to €750.0 million. If there is a change of control, the credit relationship between Deutsche Börse AG and the lenders can be reviewed in negotiations within a period of no more than 60 days. In this process, each lender has the right, at its own discretion, to terminate its credit commitment and demand partial or full repayment of the amounts owing to it. A change of control occurs if Deutsche Börse AG no longer directly or indirectly holds the majority of Clearstream Banking S.A. or if a person or a group of persons acting in concert acquires more than 50 per cent of the voting shares of Deutsche Börse AG.
- Under the terms of Deutsche Börse AG's €600.0 million fixed-rate bond issue 2015/2041 (hybrid bond), Deutsche Börse AG has a termination right in the event of a change of control which, if exercised, entitles Deutsche Börse AG to redeem the bonds at par, plus accrued interest. If Deutsche Börse AG does not exercise this termination right, the affected bonds' coupon will increase by 5 percentage points. A change of control occurs if a person or a group of persons acting in concert, or third parties acting on their behalf, has or have acquired more than 50 per cent of the shares of Deutsche Börse AG or the number of Deutsche Börse AG shares required to exercise more than 50 per cent of the voting rights at Annual General Meetings of Deutsche Börse AG. In addition, the relevant bond terms require that the change of control must adversely affect the long-term rating given to Deutsche Börse AG by Moody's Investors Services, Inc., S&P Global Ratings or Fitch Ratings Limited. Further details can be found in the applicable bond terms.
- The terms of the €500.0 million fixed-rate bonds 2015/2025, the €600.0 million fixed-rate bonds 2018/2028, and the €600.0 million fixed-rate bonds 2012/2022, which were all issued by Deutsche Börse AG, all provide Deutsche Börse AG with a termination right in the event of a change of control. If these cancellation rights are exercised, the bonds are repayable at par plus any accrued interest. A change of control occurs if a person or a group of persons acting in concert, or third parties acting on their behalf, has or have acquired more than 50 per cent of the shares of Deutsche Börse AG or the number of Deutsche Börse AG shares required to exercise more than 50 per cent of the voting rights at Annual General Meetings of Deutsche Börse AG. In addition, the respective sets of bond terms require that the change of control must adversely affect the rating given to one of the preferential unsecured debt instruments of Deutsche Börse AG by Moody's Investors Services, Inc., S&P Global Ratings or Fitch Ratings Limited. Further details can be found in the applicable bond terms.
- Based on the previous remuneration system for Executive Board members presented to the Annual General Meeting 2016, under certain conditions the Executive Board members of Deutsche Börse AG

have a special termination right in the event of a change of control. According to the agreements made with all Executive Board members, a change of control occurs if (1) a shareholder or third party discloses possession of more than 50 per cent of the voting rights in Deutsche Börse AG in accordance with sections 33 and 34 of the German Securities Trading Act (WpHG), (2) an intercompany agreement in accordance with Section 291 of the AktG is entered into with Deutsche Börse AG as a dependent company, or Deutsche Börse AG is absorbed in accordance with section 319 of the AktG, or (3) Deutsche Börse AG is merged in accordance with Section 2 of the German Transformation Act (UmwG).

Moreover, there are agreements in place with the Executive Board members under the existing remuneration system, which provide for compensation in the event of a change of control. A description of these agreements, which are in line with national and international practice, can be found in the [remuneration report](#).

## Report on economic position

### Macroeconomic and sector-specific environment

Macroeconomic conditions continue to have an influence on the business development of Deutsche Börse Group despite the growing importance of structural growth factors. The macroeconomic environment during the year under review was rather complex; whilst some factors had a stimulating effect on business, other factors unsettled market participants, dampening their business activity:

- The global economic situation, with a slight downward trend in economic output in the economies relevant to Deutsche Börse Group (Central Europe, USA) in the year under review. The European Central Bank's (ECB) continued persevering of its low-interest-rate policy, with deposit rates at minus 0.5 per cent, and the resumption of its bond-buying programme as part of its quantitative easing policy (QE).
- The US Federal Reserve's (Fed) monetary policy measures to counteract a possible economic downturn, which were accompanied by interest rate cuts of 25 basis points each in July, September and October.
- The lower level of stable volatility on equity markets – as measured by the VDAX® index – is one of the key drivers of trading activity on the cash and derivatives markets.
- The stability of the economic situation in the euro area continued over the course of the year, although the economic outlook became increasingly gloomy, particularly in the second half of 2019. This was accompanied by persistent uncertainty regarding the terms of the United Kingdom's withdrawal from the EU and its impact on markets.
- The trade dispute between the US and the EU, China, and other major trading partners, and the trade tariffs imposed on commodity or goods imports by the respective parties, fuelled concerns over a global trade war.
- Continued unstable political conditions in some parts of Eastern Europe and recurring flashpoints in the Arab world and their impact on the Western world.
- Regulatory projects and the resulting stricter requirements for capital market participants

### Business developments

Given the overall framework conditions described at the beginning of the report on the economic position, the situation on the capital markets for financial service providers such as Deutsche Börse Group in the reporting year was challenging compared with the previous year. Already at the beginning

of 2019, it was anticipated that this year would see a cooling of the global economic environment, which proved to be the case as the year progressed. The main reasons for this were the trade disputes between the US and the EU, China and other major trading partners, and the penalty tariffs imposed by the respective parties on the import of raw materials and goods. As concerns about a global trade war deepened, expectations as to the economy in general became dampened – especially expectations for Germany, an economy with a particular dependence on global trade. Despite market uncertainty, the volatility measured by the VDAX volatility index – one of the main drivers of trading activity on the cash and derivatives markets – was on average slightly below that of the previous year, apart from a few short-term peaks. Meanwhile, despite lower trading volumes compared with the previous year, the DAX and STOXX® benchmark indices saw a significant increase in their levels by the end of the year. Central banks' interest rate policies stimulated the market environment considerably. The US Fed's monetary policy easing had a negative impact on net interest income from banking business from the second half of the year onwards.

### Comparability of figures

#### Changes in the basis of consolidation

Deutsche Börse AG, Frankfurt/Main, Germany, completed the acquisition of Axioma Inc., New York, USA (Axioma) during the third quarter of 2019. Axioma was merged with Deutsche Börse's index businesses to form Qontigo, a newly established company which is an innovative provider of investment information and a leading developer of solutions for modernising investment management – from risk to return. Deutsche Börse has held a 78.3 per cent stake in the company since 13 September 2019. Revenue and costs are reported in the Qontigo segment (Index and analytics business). In this context, certain licence revenues from the Data segment (data business) were also re-allocated to the new Qontigo segment, which amounted to €10.1 million for the first nine months of 2019. The previous year's figures were also adjusted accordingly (€12.8 million).

#### Changes to the consolidated income statement and to the consolidated balance sheet due to the recognition of leases in accordance with IFRS 16

Deutsche Börse Group adjusted the structure of its financial statements as at 1 January 2019 in accordance with IFRS 16. It now recognises the type of expenses for certain leases described in [note 3 to the consolidated financial statements](#). Since 1 January 2019 these have no longer been reported under operating costs but as part of depreciation, amortisation and the financial result. Given that the prior year's figures were not restated, IFRS 16 leads to a decline in operating costs year-on-year for the 2019 financial year, while EBITDA, depreciation and amortisation increase and the financial result decreases. As a result of the recognition of right-of-use assets from leases and taking into account any deferred taxes recognised in this context, total assets have risen by €265.6 million overall as at 1 January 2019.

In order to make the results for the 2019 financial year comparable with the figures of the previous year, the following table provides estimates for a retrospective application of IFRS 16. These figures have not been prepared or audited pursuant to national or international accounting standards, but merely serve to provide a better overview of the Group's business development.

Estimates for the shift of operating costs to depreciation and amortisation as well as to the financial result for 2018 as a result of the first-time application of IFRS 16

	2018 € m
Group	
Reduction of operating costs	50.3
Increase of depreciation and amortisation	47.2
Reduction of financial result	2.9
Reporting segments (reduction of operating costs)	
Eurex (financial derivatives)	11.6
EEX (commodities)	3.3
360T (foreign exchange)	1.1
Xetra (cash equities)	4.2
Clearstream (post-trading)	19.3
IFS (investment fund services)	4.6
GSF (collateral management)	2.4
Qontigo (index- and analytics business)	1.7
Data	2.1

## Results of operations

Deutsche Börse Group looks back on another successful financial year. Almost all segments contributed to this success, some of them achieving substantial revenue growth. The Group achieved structural net revenue growth of 5 per cent for the year overall, in line with expectations. The Eurex (financial derivatives) and EEX (commodities) segments were the main drivers of this development. In addition to over-the-counter (OTC) clearing, structural growth of net revenues in the Eurex segment (financial derivatives) was mainly due to new products and pricing models, whilst in the EEX segment (commodities, the positive development of the structural net revenue growth reflected significant market share gains in Europe and the US. The Qontigo (index and analytics business, 360T (foreign exchange trading) and IFS (investment fund services) segments also contributed to strong structural growth. Cyclical effects were unable to drive the Group's growth any further compared to the previous year and broadly offset each other over the period. Higher net interest income from banking business (Clearstream, post-trading segment) made a positive contribution to growth. This was offset by lower volatility on the financial markets compared to the previous year, reflected in a slightly lower trading volume in financial derivatives (Eurex segment). Consolidation effects – mainly resulting from the acquisitions of Axioma and Swisscanto – contributed around 1 per cent to higher net revenue. Overall, the Group generated net revenue of € 2,936.0 million an increase of 6 per cent compared to the previous year (2018: €2,779.7 million).

The reclassification of expenses due to IFRS 16 impacted on the operating costs and EBITDA, as well as on depreciation, amortisation and impairment, and on the financial result. For details, please refer to the [note 3 to the consolidated financial statements](#).

Operating costs for Deutsche Börse Group of €1,264.4 million (2018: €1,340.2 million) comprise staff costs and other operating expenses. Higher expenditure for investments in new technologies and growth initiatives was partially offset by the changeover to IFRS 16. Non-recurring effects totalled €134.9 million for 2019 (2018: €244.2 million) and led to adjusted operating costs of €1,129.5 million (2018: €1,096.0 million). Following adjustments to the previous year's figures in

accordance with IFRS 16, adjusted operating costs rose by 8 per cent, mainly due to higher capital expenditure and consolidation effects. Excluding consolidation effects, adjusted operating costs increased by 5 per cent.

Adjusted staff costs increased year-on-year to €705.7 million (2018: €665.8 million). The increase was mainly due to higher average staff numbers, due in part to acquisitions. Non-recurring effects of €42.1 million (2018: €158.2 million) attributed to personnel expenses mainly include costs incurred for efficiency measures in the context of the Structural Performance Improvement Programme (SPIP) introduced in 2018.

Other adjusted operating expenses relate mainly to the costs of enhancing and operating Deutsche Börse Group's technological infrastructure. This includes, for example, costs for the Group's own IT and for external IT service providers. In addition, other operating expenses include the cost of the office infrastructure at all the Group's locations as well as travel expenses, most of which are incurred in connection with sales activities. Adjusted operating costs fell slightly year-on-year to €423.8 million (2018: €430.2 million). This figure does not include non-recurring effects of €92.8 million (2018: €86.0 million), which resulted from organisational restructuring measures within the scope of implementing the corporate strategy "Roadmap 2020", for example, as well as M&A activities.

Results from strategic investments rose slightly to €6.7 million (2018: €4.2 million).

Earnings before interest, tax, depreciation and amortisation (EBITDA) rose by 16 per cent. Adjustment of the previous year's figures to reflect the adoption of IFRS 16 resulted in an increase in adjusted EBITDA of 5 per cent.

The Group reports depreciation, amortisation and impairment losses separately from operating costs. This figure increased by 7 per cent year-on-year to €226.2 million (2018: €210.5 million) and is mainly due to the reclassification of expenses in accordance with IFRS 16.

The financial result totalled €-53.7 million (2018: €-76.4 million). This decrease was mainly due to lower provisions for interest payments on any potential tax back payments for the 2019 financial year.

The adjusted Group tax rate for 2019 was 26 per cent, as expected.

Overall, the net profit for the period attributable to Deutsche Börse AG shareholders was €1,003.9 million (2018: €824.3 million), an increase of 22 per cent on last year's result. Adjusted, this amounted to €1,105.6 million (2018: €1,002.7 million), an increase of 10 per cent.

Non-controlling interests in net profit attributable to Deutsche Börse AG shareholders amounted to €31.5 million for the period (2018: €28.2 million). This comprises mainly earnings attributable to non-controlling shareholders of EEX Group and, since September 2019, Qontigo GmbH.

Based on the weighted average of 183.4 million shares, basic earnings per share amounted to €5.47 (2018: €4.46 for an average of 184.9 million shares outstanding). Adjusted, basic earnings per share rose to €6.03 (2018: €5.42).

### Comparison of results of operations with the forecast for 2019

For 2019, Deutsche Börse Group had expected an increase in structural net revenue of at least 5 per cent on the basis of its diverse structural growth initiatives. The Group expected a slightly more reticent market environment in the 2019 financial year compared to 2018, due to the slowdown in global economic growth, increased economic risks and political uncertainties, especially with regard to further cyclical growth. However, despite the continuing uncertainty, it became less of a factor for financial markets as the year progressed, resulting in stock market volatility, measured by the VSTOXX volatility index, and thus trading volumes falling short of the higher comparative figures for the previous year. In particular, the Group did not expect US interest rates to drop in the second half of 2019. The conditions described earlier in the [“Business developments” section](#) thus largely reflect the Group’s assumptions used in the forecast. Based on its highly diversified business model, Deutsche Börse Group increased net revenue by a total of 6 per cent. Of this increase, 5 per cent is attributable to structural growth factors, with cyclical factors generally offsetting each other. One per cent of this growth is attributable to consolidation effects. The structural growth forecast was therefore met.

The Group anticipated an increase in structural net revenue of at least 5 per cent, along with operating costs in a range corresponding to this. Deutsche Börse Group had expected an increase in adjusted net profit attributable to Deutsche Börse AG shareholders of around 10 per cent. On an adjusted basis, Deutsche Börse Group achieved a 10 per cent increase in adjusted net profit for the period attributable to Deutsche Börse AG shareholders, in line with the forecast. Moreover, the Group achieved a ratio of net debt to adjusted EBITDA of 1.0, which is well below the target value of 1.75 maximum. The adjusted tax rate was 26.0 per cent, exactly on target. In line with projections, the operating cash flow was clearly positive. Investments in property, plant and equipment, as well as intangible assets amounted to €184.7 million, slightly higher than forecast. After increasing its target figures, the Group aimed to distribute dividends equivalent to the mean of the projected range of 40 to 60 per cent of (adjusted) net profit for the period attributable to Deutsche Börse AG shareholders. According to the proposal made to the Annual General Meeting, based on a proposed dividend of €2.90 per share, a figure of 48 per cent was reached.

## Eurex (financial derivatives) segment

### Eurex (financial derivatives) segment: key indicators

	2019	2018	Change
<b>FINANCIAL KEY FIGURES</b>	<b>€m</b>	<b>€m</b>	<b>%</b>
Net revenue	957.1	936.1	2
Equity index derivatives	484.0	466.2	4
Interest rate derivatives	210.9	231.9	-9
Equity derivatives	51.1	43.8	17
OTC clearing (incl. net interest income on margins for OTC interest rate swaps)	41.2	25.6	61
Margin fees	52.3	50.0	5
Other (incl. connectivity, member fees and net interest income on margins for exchange-traded products)	117.6	118.6	-1
Operating costs	314.5	376.3	-16
Operating costs (adjusted)	296.0	304.9	-3
EBITDA	647.6	559.4	16
EBITDA (adjusted)	666.2	630.8	6
<b>PERFORMANCE INDICATORS</b>			
Financial derivatives: trading volumes on Eurex Exchange	m contracts	m contracts	%
Derivatives <sup>1)</sup>	1,947.1	1,951.8	0
Equity index derivatives	953.0	949.8	0
Interest rate derivatives	506.8	628.5	-11
Equity derivatives	425.2	372.1	14
Financial derivatives: OTC clearing volumes	€bn	€bn	%
Notional outstanding (average)	12,795	7,027	82
Notional cleared (incl. compression)	28,064	15,099	85

1) Due to other traded products, such as exchange-traded commodities (ETCs) on precious metals derivatives, the total shown does not equal the sum of the individual figures

In the Eurex (financial derivatives) segment, Deutsche Börse Group combines the financial derivatives trading and clearing business at Eurex Exchange. The clearing volume of OTC interest rate swaps, one of the structural growth factors for Deutsche Börse Group, is reported as a separate item within the segment. The performance of the Eurex segment largely depends on the trading activities of institutional investors, and proprietary trading by professional market participants.

Trading volumes in the Eurex segment across all product groups reached 1,947.1 million contracts in the 2019 financial year, coming very close to the previous year's figure of 1,951.8 million contracts. The importance of geopolitical influences on the markets, such as the trade dispute between the US and China and the delays surrounding Brexit, eased increasingly in the course of 2019. Accordingly, equity market volatility in the 2019 financial years, as measured by the VSTOXX volatility index, was 10 per cent lower on average than the high figure for the previous year. Despite what was an unfavourable market environment overall, trading volumes in the business with equity index derivatives in the year under review were up slightly on the previous year. Higher contract volumes were evident in sector index trading, particularly for products based on MSCI indices. The Eurex segment benefited here from the considerably broader range of products offered. Single-stock derivatives trading volumes rose by 14 per cent in 2019, due above all to higher contract volumes in derivatives on bank shares.

By contrast, trading volumes in interest rate derivatives declined by 11 per cent in the 2019 financial year. Volumes were burdened here by the absence of further interest rate increases in the US at the start of 2019, as anticipated by many market participants. Instead, the US Federal Reserve (Fed) lowered its key interest rates three times in 2019. In conjunction with the loose monetary policy still pursued by the ECB, this led to a decline in trading volumes in Europe, especially in the longer maturities.

The Eurex segment achieved marked growth of 480 per cent in trading in commodity ETFs, so-called exchange traded commodities (ETCs), albeit from a low absolute level. The option on the physical gold ETC in particular offers investors an opportunity to gain exposure to a proxy for gold spot volatility. ETC trading volumes totalled 8.1 million contracts in 2019 (2018: 1.4 million).

Clearing of OTC interest rate derivatives continued to increase in the 2019 financial year, with the outstanding nominal volume exceeding the previous year's value by 63 per cent. Eurex Clearing's market share in global euro-denominated OTC interest rate derivatives rose accordingly to 14.5 per cent (2018: 9.3 per cent). The incentive programme that Eurex introduced in September for transferring interest rate derivative portfolios to Eurex Clearing also had a positive effect, helping Eurex clients migrate their positions into the EU-27. Cleared nominal volumes rose by 85 per cent in 2019.

At the start of 2019, Eurex Clearing's Partnership Programme was extended to include the repo segment, with the objective of enhancing selection and efficiency for market participants in special repos and general collateral (GC) instruments, as well as furthering acceptance and growth in repo business between traders and customers. At the end of 2019, more than 300 end clients (2018: 130) were connected to Eurex Clearing's interest rate derivatives service. Increased buy-side demand is proof of the trust our clients place in the quality of euro clearing based in Frankfurt.

Overall, net revenue in the Eurex segment increased by a total of 2 per cent in 2019. The biggest growth drivers in percentage terms were OTC clearing and the business with equity derivatives. Trading in equity index derivatives, measured by the net revenues of the most important business, reported a 4 per cent increase in revenue. The segment's adjusted EBITDA rose by 6 per cent.



## EEX (commodities) segment

### EEX (commodities) segment: key indicators

	2019	2018	Change
<b>FINANCIAL KEY FIGURES</b>	<b>€m</b>	<b>€m</b>	<b>%</b>
Net revenue	289.3	256.6	13
Power spot	70.9	67.1	6
Power derivatives	105.1	82.1	28
Gas	42.8	36.6	17
Other (incl. connectivity, member fees and admission allowance)	70.5	70.8	0
Operating costs	169.6	149.2	14
Operating costs (adjusted)	150.6	141.2	7
EBITDA	119.4	107.2	11
EBITDA (adjusted)	138.4	115.2	20
<b>PERFORMANCE INDICATORS</b>			
Commodities: trading volumes on EEX	TWh	TWh	%
Power spot	597.7	576.6	4
Power derivatives	5,829.7	4,385.5	33
Gas	2,546.3	1,962.9	30

The EEX (commodities) segment comprises Deutsche Börse Group's trading activities on EEX Group's platforms, located in Europe, Asia and North America. The EEX Group operates marketplaces and clearing houses for energy and commodity products, connecting more than 600 participants around the world. The product portfolio comprises contracts on energy, metals and environmental products, as well as freight and agricultural products. EEX Group's most important revenue drivers are the power spot and derivatives markets, and the gas markets.

EEX Group cemented its position further in 2019 as a global commodities exchange, achieving marked growth especially in the markets for electricity, natural gas and freight.

The Group increased its trading volume in the spot power market by 4 per cent in 2019. Growth was attributable mainly to increases in the German and Austrian day-ahead markets, and from greater volume in the intraday markets, due in part to the higher share of renewable energy. On the other hand, the introduction of a joint order book – and hence, the coupling of the day-ahead markets in Germany, Austria, the Netherlands, Belgium and France at the start of July 2019 – drove up competitive pressure.

EEX Group's power derivatives markets saw an increase in trading volumes of 33 per cent to 5,829.7 TWh. Trading in Phelix-DE futures continued to expand and reached a new record volume of 250.1 TWh in September 2019. EEX Group also significantly increased its trading volume and further extended its market share in 2019 on the power derivatives markets in France, Spain and Hungary. EEX rolled out new power products at the start of June 2019 for three southern European markets, comprising cash-settled power futures for Bulgaria, Serbia and Slovenia. With the new products, EEX's range of power products now covers 20 European market areas. US power trading, operated by Nodal Exchange which was acquired in 2017, increased its volume by 79 per cent in 2019. Nodal Exchange reported a new record volume of 231 TWh in October 2019, while its market share of the North American power derivatives market climbed to 36 per cent in the year under review (2018: 21 per cent).

In the gas market, trading volume of the EEX segment rose by 30 per cent. High growth rates were achieved in the gas spot market in the Netherlands, Germany and Austria in particular. Trading activity on the gas derivatives market increasingly gained momentum during 2019, driven especially by the Dutch and the German market.

2019 was a very positive year for the freight segment, with freight volumes settled via the ECC clearing house climbing in 2019 by 109 per cent year-on-year.

Across all product groups, net revenue of the EEX segment rose by 13 per cent in the year under review. Adjusted EBITDA rose by 20 per cent.

### 360T (foreign exchange) segment

#### 360T (foreign exchange) segment: key indicator

	2019	2018	Change
<b>FINANCIAL KEY FIGURES</b>	<b>€m</b>	<b>€m</b>	<b>%</b>
Net revenue	92.1	78.8	17
Trading	76.9	66.7	15
Other (incl. connectivity and member fees)	15.2	12.1	26
Operating costs	57.7	49.9	16
Operating costs (adjusted)	50.4	45.7	10
EBITDA	34.4	28.9	19
EBITDA (adjusted)	41.7	33.1	26
<b>PERFORMANCE INDICATORS</b>			
Foreign exchange: trading volumes on 360T®	€bn	€bn	%
Average daily volume	82.5 <sup>1)</sup>	69.2 <sup>1)</sup>	19

1) Including GTX trading volumes since July 2018

In the 360T (foreign exchange) segment, Deutsche Börse Group manages its foreign exchange trading business, which takes place on the platforms provided by its subsidiaries 360 Treasury Systems AG and 360TGTX Inc. Net revenue of the 360T segment is driven mainly by the trading activities of institutional investors, banks and internationally active companies, and the provision of liquidity through so-called liquidity providers. During the year under review, the segment generated 83 per cent of its revenue from foreign-exchange trading and 17 per cent from the provision of other services.

The market environment in the 360T segment was determined by low volatility overall on the FX spot markets during the year under review. Despite this cyclical headwind, the 360T segment was nonetheless able to increase average daily trading volumes on its platform by 19 per cent during the 2019 financial year. Growth in trading volumes was based primarily on the acquisition and onboarding of new clients, in particular in the US, as well as in the EMEA and APAC regions. Strong growth was recorded in the year under review, above all in swaps and forward transactions. The OTC product range was also extended in the year under review with the introduction of a fully-automated limit order book for FX swaps (360TGTX MidMatch) and a streaming service for non-deliverable forwards (NDFs).

In addition, Eurex's FX trading and clearing activities, which are also allocated to the 360T segment, reached important milestones in the planned expansion of the product and service range. This led to the acquisition of two renowned US banks – J.P. Morgan and Morgan Stanley – as the first participants for

the OTC FX clearing service. The first cross-currency swaps were successfully cleared via Eurex Clearing in October. Eurex Clearing's ITC-FX clearing service offers interdealer clearing of EUR/USD and GBP/USD currency pairs for cross-currency swaps with a term of up to 50 years. The Eurex business with FX-based exchange-traded derivatives (ETDs) was another of the segment's initiatives. Further renowned clearing members, liquidity providers and trading participants were acquired as clients for Eurex FX futures trading in the year under review. The volume of FX futures traded on the Eurex platform grew steadily in 2019 to reach a record volume of 32,540 traded contracts on 11 December 2019. Open interest at year-end 2019 reached a new all-time high of €2.04 billion. The market data product, which was rolled out together with the Data segment in 2018 and provides data on both FX spot and swap markets, continued to be very well received by market participants last year and developed positively.

Given the product mix, which comprises a higher share of lower-margin products, net revenue growth of 17 per cent for the 2019 financial year fell slightly short of the increase in trading volumes. The GTX business (acquired in the previous year) contributed 12 percentage points to revenue growth over the year as a whole. The 360T segment's adjusted EBITDA rose by 26 per cent.

#### Xetra (cash equities) segment

##### Xetra (cash equities) segment: key indicators

	2019	2018	Change
<b>FINANCIAL KEY FIGURES</b>	<b>€m</b>	<b>€m</b>	<b>%</b>
Net revenue	222.6	228.7	-3
Trading and clearing	156.4	170.6	-8
Listing	19.9	17.8	12
Other (incl. connectivity and member fees)	46.3	40.3	15
Operating costs	101.7	118.8	-14
Operating costs (adjusted)	98.1	102.7	-4
EBITDA	124.8	115.5	8
EBITDA (adjusted)	128.4	131.6	-2
<b>PERFORMANCE INDICATORS</b>	<b>€bn</b>	<b>€bn</b>	<b>%</b>
Trading volume (single-counted order book turnover at the trading venues Xetra®, Börse Frankfurt and Tradegate)	1,500.3	1,719.6	-13
Equities	1,354.9	1,552.7	-13
ETF/ETC/ETN	145.4	166.9	-13

In the Xetra segment (cash equities), Deutsche Börse Group brings together its cash market trading venues (Xetra®, the Frankfurt Stock Exchange, and Tradegate). Besides trading and clearing services income, the segment generates revenue from the ongoing listing of companies' securities and exchange admissions, from connecting clients to trading venues, and from services provided to partner exchanges.

Low equity market volatility in the 2019 financial year was the main reason for the unfavourable cyclical environment for Deutsche Börse Group's cash market business. The higher index levels compared with the previous year were unable to offset the lower trading activity, so that trading volumes fell by 13 per cent in the year under review. Competing with other pan-European trading venues, Xetra nonetheless further strengthened its position as the reference market for trading in DAX® constituents, increasing its market share to 71 per cent (2018: 68 per cent). Trading volumes in exchange-traded funds (ETFs) were also down 13 per cent year-on-year. Assets under management in ETFs totalled €709.8 billion as at 31 December 2019 (2018: €524.2 billion).

During the year under review, the Xetra segment recorded a total of four initial public offerings (IPOs) compared with 18 in 2018. These included the IPOs of TRATON SE, the Volkswagen Group's commercial vehicles business, with an issue volume of €1.6 billion and TeamViewer AG with an issue volume of €2.2 billion. TeamViewer's IPO was the largest of a technology company in Germany since 2000.

Persistently high investor interest in Xetra-Gold® – a bearer bond backed by physical gold – led to new record levels, both in terms of gold holdings and assets under administration. At the end of the financial year 2019, the gold held in custody reached a record of 203.2 tonnes (2018: 181.4 tonnes), equivalent to around €8.8 billion (2018: €6.5 billion). Xetra Gold thus remains the leading European security backed by physical gold. In the year under review, the aggregate order book turnover was €3.4 billion (2018: €2.7 billion), making Xetra Gold the most actively traded instrument amongst exchange traded commodities (ETCs) traded on Xetra.

Net revenue in the Xetra segment declined slightly by 3 per cent during the year under review. The below-average decline in revenue from trading and clearing services compared with the performance of trading volume resulted from Deutsche Börse's rebate and pricing model, i.e. lower volume discounts are granted for lower trading volumes. Higher listing fees also had a positive impact on net revenue. The increase in other revenue was attributable to higher connectivity fees and resulted above all from numerous clients developing their infrastructure in preparation for the UK's exit from the EU. The segment's adjusted EBITDA also fell slightly by 2 per cent.

## Clearstream (post-trading) segment

### Clearstream (post-trading) segment: key indicators

	2019	2018	Change
FINANCIAL KEY FIGURES	€m	€m	%
Net revenue	764.7	727.3	5
Custody	391.7	382.8	2
Settlement	82.2	76.0	8
Net interest income from banking business	188.2	155.5	21
Third-party services	24.3	32.1	-24
Other (incl. connectivity, account maintenance)	78.3	80.9	-3
Operating costs	305.0	351.9	-13
Operating costs (adjusted)	282.4	277.7	2
EBITDA	459.4	375.2	22
EBITDA (adjusted)	482.0	440.1	10
PERFORMANCE INDICATORS			%
Assets under custody ICSD and CSD (average) (€bn)	11,561	11,302	2
Settlement transactions ICSD (m)	56.1	48.4	16
Cash balances (daily average) (€bn)	15.7	13.1	20

Deutsche Börse Group's settlement and custody activities are reported under the Clearstream (post-trading) segment. In providing the post-trade infrastructure for Eurobonds and other markets, Clearstream is responsible for the issuance, settlement, management and custody of securities from more than 50 markets worldwide. Net revenue in this segment is driven mainly by the volume and value of securities under custody, which determines the deposit fees. The settlement business depends primarily on the number of settlement transactions processed by Clearstream via stock exchanges as well as over the counter (OTC). This segment also contains the net interest income originating from Clearstream's banking business.

The average value of assets under custody in the central securities depository (CSD) and international central securities depository (ICSD) business increased by 2 per cent in the 2019 financial year. This rise was mainly due to a higher volume of bonds held in the ICSD business, which also benefitted from the strength of the US dollar versus the euro. Net revenue from custody services rose accordingly by 2 per cent in the reporting year. Increased client activity resulted in a 16 per cent higher number of settlement transactions, especially in the ICSD business. Net revenue from settlement services saw a corresponding increase of 8 per cent in the 2019 financial year.

Net interest income from Clearstream's banking business rose 21 per cent to €188.2 million in full year 2019 (2018: €155.5 million). The higher net interest income on cash deposits resulted from catch-up effects from interest rate hikes in the US in 2018, which had outweighed the effect of the three interest rate cuts by the US Federal Reserve in the second half of 2019. The rise in net interest income was also a result of higher US dollar-denominated deposits. Customers cash balances overall rose by 20 per cent to €15.7 billion as at 31 December 2019.

Net revenue from third-party services declined by 24 per cent year-on-year. While revenue from regulatory reporting services offered via REGIS-TR continued to grow, this growth was in total overcompensated by the discontinuation of the managed services business.

Other revenue recorded a year-on-year decline as a result of a one-time €9.3 million insurance payment recognised in the prior year. Other services, including connectivity and account maintenance, however, recorded a rise in net revenue.

Overall, the Clearstream segment increased net revenue by 5 per cent in 2019. Operating costs adjusted for exceptional effects advanced by 2 per cent, mainly as a result of higher staff costs due to additional hirings, which have been partially offset by lower variable compensation. Accordingly, adjusted EBITDA improved year-on-year by 10 per cent.

#### IFS (investment fund services) segment

##### IFS (investment fund services) segment: key indicators

	2019	2018	Change
<b>FINANCIAL KEY FIGURES</b>	€m	€m	%
Net revenue	183.1	154.3	19
Custody	76.7	65.9	16
Settlement	53.6	49.4	9
Other (incl. connectivity, order routing and reporting fees)	52.8	39.0	35
Operating costs	110.3	108.3	2
Operating costs (adjusted)	95.1	86.8	10
EBITDA	72.8	46.0	58
EBITDA (adjusted)	88.0	67.5	30
<b>PERFORMANCE INDICATORS</b>			%
Assets under custody (average) (€bn)	2,502	2,385	5
Settlement transactions (m)	27.9	24.5	14

In the IFS (investment fund services) segment, Deutsche Börse Group reports the order routing and settlement activity and custody volumes of mutual, exchange-traded, and alternative funds processed by Clearstream. Clients can settle and manage their entire fund portfolio via Clearstream's Vestima® fund processing platform. Net revenue in the IFS segment is largely a function of the value of assets under custody and the number of transactions.

Assets under custody in the IFS segment climbed by 5 per cent in the 2019 financial year, leading to a 16 per cent rise in net revenue from custody services. The number of settlement transactions rose by 14 per cent in the reporting year fuelled by the onboarding of new clients and high levels of activity among existing clients amid increased market share in growing fund market. As a consequence, net revenue from settlement services increased by 9 per cent.

Following the acquisition of Swisscanto Funds Centre Ltd. at the end of 2018, the rollout of related services launched in mid-2019 progressed as scheduled and several new clients were acquired in the reporting year. Among others, the functionalities of the Fund Desk distribution support service were enhanced and fully integrated into the IFS product range. The services encompass distribution contract negotiation, compliance support services for eligibility control and anti-money-laundering, know-your-customer and know-your-distributor rules, exchange fund data from asset managers to fund distributors and vice versa, as well as a distribution commission management service. As a result, the new service will help clients meet regulatory requirements for transparency and standardisation in fund distribution, which have increased under MiFID II. Thanks to the broader product offering, the IFS segment realised

revenue synergies from cross-selling. The net revenues related to the Swisscanto acquisition are included in the “other revenue” line item, which rose by 35 per cent in 2019.

During the 2019 financial year, IFS also completed the acquisition of Ausmaq Limited, the specialist managed funds custody business of National Australia Bank Limited, thereby extending its fund service offering to the Australian market. Australia has recorded steady growth in recent years and ranks number one among the Asia-Pacific fund markets and number four globally with regard to assets under management.

Overall, the IFS segment’s net revenue increased by 19 per cent in 2019. Roughly half of the increase (€13.3 million) was attributable to the acquisitions of Swisscanto Funds Centre Ltd. and Ausmaq Limited, while organic growth amounted to 8 per cent. Due to the segment’s highly scalable business model, adjusted EBITDA climbed by 30 per cent.

#### GSF (collateral management) segment

##### GSF (collateral management) segment: key indicators

	2019	2018	Change
<b>FINANCIAL KEY FIGURES</b>	<b>€m</b>	<b>€m</b>	<b>%</b>
Net revenue	78.0	83.1	-6
Collateral management	48.9	43.3	13
Securities lending	29.1	39.8	-27
Operating costs	38.4	48.4	-21
Operating costs (adjusted)	36.3	39.5	-8
EBITDA	38.1	34.2	11
EBITDA (adjusted)	40.2	43.1	-7
<b>PERFORMANCE INDICATORS</b>	<b>€bn</b>	<b>€bn</b>	<b>%</b>
Average outstandings from collateral management	401.8	377.6	6
Average outstandings from securities lending	48.9	53.8	-9

In the GSF (collateral management) segment, Deutsche Börse Group reports on business development at Clearstream’s collateral management and securities lending services. Collateral management services (formerly named Repo) encompass Tri-Party repo, GC Pooling® and collateral administration services.

Average outstandings in the collateral management business recorded growth of 6 per cent in the 2019 financial year. This was mainly the result of new customer wins and growing volumes in initial-margin segregation products under the European Market Infrastructure Regulation (EMIR). Net revenue from collateral management services increased accordingly by 13 per cent.

The GSF segment succeeded in significantly broadening its customer base in 2019, leading to a steady recovery in securities lending volumes over the course of the year. However, this could not fully offset the challenging market conditions in the business, with average outstanding volumes down 9 per cent compared to the previous year. Negative interest rates and ample liquidity provided by the ECB put added pressure on fees, resulting in a decline of 27 per cent in net revenue from securities lending in 2019.

The GSF segment’s net revenue overall fell by 6 per cent in the 2019 financial year. As a result, adjusted EBITDA declined by 7 per cent.

## Qontigo (index and analytics business) segment

### Qontigo (index and analytics business) segment: key indicators<sup>1)</sup>

	2019	2018	Change
<b>FINANCIAL KEY FIGURES</b>	<b>€m</b>	<b>€m</b>	<b>%</b>
Net revenue	190.2	157.3	21
ETF licences	38.7	43.8	-12
Exchange licences	31.5	31.3	1
Other licences	94.2	82.2	15
Analytics	25.8	-	-
Operating costs	101.0	53.9	87
Operating costs (adjusted)	69.4	44.5	56
EBITDA	89.2	103.4	-14
EBITDA (adjusted)	120.8	112.8	7
<b>PERFORMANCE INDICATORS</b>	<b>€bn</b>	<b>€bn</b>	<b>%</b>
Assets under management in ETFs on STOXX® indices (average for the period)	71.2	81.9	-13
Assets under management in ETFs on DAX® indices (average for the period)	24.0	27.7	-13
Index derivatives (traded contracts) (m)	879.6	875.4	0

1) As part of the combination, certain licence revenues were re-allocated from the Data segment to the new Qontigo segment (index and analytics business)

In the Qontigo (index and analytics business) segment, Deutsche Börse Group reports on the development of its subsidiary, Qontigo, which was formed through the merger of STOXX Ltd. and Axioma Inc. in September 2019. In the index business, Qontigo offers issuers an extensive range of indexes, providing issuers with a wealth of opportunities for creating financial instruments for even the most diverse investment strategies. While the ETF licence revenues depend on the volume invested worldwide in exchange-traded index funds (ETFs) on STOXX® and DAX® indices, the exchange licence revenues are determined mainly by the volume traded in index derivatives on STOXX and DAX indices on Eurex. Licence fees from structured products are shown as part of other licence fees. In Analytics, Qontigo offers its clients risk analytics and portfolio-management tools. Revenue in this area depends mainly on order volume. However, a significant portion of this revenue requires the volume of new business to be recognised at the time the revenue is generated (rather than spread over the term of the contract). Actual net revenue may therefore fluctuate from month to month depending on the volume of new business.



In the year under review, European stock indices recorded an outflow of investment funds to other regions – an effect that could not be compensated for by higher index levels compared to the previous year. Average assets under management in ETFs on STOXX and DAX indices each fell by 13 per cent compared to the previous year. ETF licence fees for 2019 declined similarly, by 12 per cent. In line with the almost unchanged trading volume in index derivatives at Eurex, exchange-based licence fees in 2019 were 1 per cent up on the already high figure for the previous year.

In July STOXX Ltd. announced that it had been recognised as administrator according to Article 32 of the EU Benchmarks Regulation. This recognition means that indices managed by STOXX can now be included in the ESMA Benchmark Register. To achieve synergies in Deutsche Börse Group's index business, Deutsche Börse AG has decided to transfer the administration (as defined in the EU Benchmark Regulation) of its indices (DAX, eb.rexx etc.) to STOXX Ltd.

Net revenue from Analytics of €25.9 million, reported for the first time in the 2019 financial year, reflects the new business generated by the merger with Axioma in portfolio management and risk analytics software. Revenue relates to the period since the acquisition was completed (13 September 2019).

Due to the signing of a number of new contracts, including those with buy-side customers, other licence revenues rose by 14 per cent for 2019. Overall, net revenue for the Qontigo segment increased by 21 per cent in the year under review. Adjusted EBITDA for the segment rose by 7 per cent.

## Data segment

### Data segment: key indicators<sup>1)</sup>

	2019	2018	Change
<b>FINANCIAL KEY FIGURES</b>	<b>€m</b>	<b>€m</b>	<b>%</b>
Net revenue	158.9	170.3	1
Cash and derivatives	112.0	113.6	-1
Regulatory services	19.1	17.8	7
Other (incl. CEF® data services)	27.8	38.9	7
Operating costs	66.3	83.5	-1
Operating costs (adjusted)	51.3	53.0	-3
EBITDA	92.5	86.7	25
EBITDA (adjusted)	107.5	117.2	3
<b>PERFORMANCE INDICATORS</b>	<b>thousand</b>	<b>thousand</b>	<b>%</b>
Subscriptions	334.3	377.8	-12

1) As part of the combination, certain licence revenues were re-allocated from the Data segment to the new Qontigo segment (index and analytics business)

In the Data segment, Deutsche Börse Group reports on the development of its business concerning licences for real-time trading, market signals and the supply of historical data and analytics. The most important products in this respect are order book data from the cash and derivatives markets, as well as reference data of Deutsche Börse and data from its partner exchanges. The segment generates much of its net revenue on the basis of long-term client relationships; it is relatively independent of trading volumes and capital markets volatility. Revenue from regulatory services is also shown in this segment.

Net revenue for Data increased year-on-year by 1 per cent. Net revenue for data from the cash and derivatives markets decreased primarily due to higher back billings for the same period last year. Regulatory services saw revenue increase mainly as a result of the positive development in the Group's core business as well as non-recurring effects. The segment's other net revenue (including CEF® data services and external collaborations) increased due to an early termination of a contract.

Overall, adjusted EBITDA for 2019 increased by 3 per cent due to a stronger increase in net revenue compared to adjusted operating costs.

#### Development of profitability

Deutsche Börse Group's return on shareholders' equity expresses the ratio of net income after taxes to average equity available to the Group during the course of 2019. At 19.3 per cent return on equity was higher than the previous year's ratio (2018: 17.1 per cent). Adjusted for the effects described in [☒ Results of operations](#), the return on equity was 21.3 per cent (2018: 20.8 per cent).

## Financial position

### Cash flow

#### Consolidated cash flow statement (condensed)

	2019 €m	2018 €m
Cash flows from operating activities (excluding CCP positions)	1,030.6	1,176.5
Cash flows from operating activities	926.1	1,298.2
Cash flows from investing activities	- 722.9	792.0
Cash flows from financing activities	99.4	- 832.9
Cash and cash equivalents as at 31 December	2,145.5	1,839.0
Cash and other bank balances as at 31 December	888.1	1,322.3

Cash and cash equivalents at Deutsche Börse Group comprise cash and bank balances – to the extent that these do not result from reinvesting current liabilities from cash deposits by market participants – as well as receivables and liabilities from banking business with an original maturity of three months or less. Cash and cash equivalents as at 31 December 2019 amounted to €2,142.1 million (31 December 2018: €1,839.0 million). Other cash and bank balances amounted to €888.1 million as at 31 December 2019 (31 December 2018: €1,322.3 million).

In the 2019 financial year, Deutsche Börse Group generated a positive cash flow of €304.8 million (2018: €1,257.3 million). The informative value of Deutsche Börse Group's cash flow is relevant only to a limited extent since it includes in particular CCP positions which are subject to significant fluctuations on the reporting date, as well as the inflows and outflows resulting from the banking business. Adjusted by these effects, the cash flow in the 2019 financial year can essentially be explained as follows:

Deutsche Börse Group generated €1,030.6 million (2018: €1,176.5 million) in cash flow from operating activities, excluding changes in CCP positions on the reporting date. This figure is determined indirectly, resulting from the net profit for the period amounting to €1,035.4 million (2018: €852.5 million), which is adjusted by non-cash expense and income such as depreciation and deferred tax assets. Additionally, especially higher tax payments in 2019 resulted in a negative contribution to cash flow from operating activities (increase in working capital).

The positive cash flow from operating activities is essentially matched by the purchase of the investments in intangible assets and property amounting to €184.7 million and the distribution of €495.0 million in dividends by Deutsche Börse AG for the 2018 financial year (dividends for the 2017 financial year: €453.3 million). In particular, the acquisition of Axioma Inc. resulted in a total cash outflow in cash flow from investing activities in amount of €648.3 million. At the same time, General Atlantic's participation in the index business of Deutsche Börse Group led to an cash inflow in amount of €666.4 million and to an increase in cash flow from financing activities. Therefore, the acquisition of Axioma Inc. was mostly neutral for cash and cash equivalents.

As in previous year, the Group assumes it will have a strong liquidity base in the 2020 financial year due to its positive cash flows from operating activities, adequate credit lines and flexible management and planning systems.

For further details regarding the cash flow, please refer to the [☒ consolidated cash flow statement](#) as well as [☒ note 20 to the consolidated financial statements](#).

## Liquidity management

Deutsche Börse Group primarily meets its operating liquidity requirements from internal financing, i.e. by retaining generated funds – with a view towards maintaining sufficient liquidity in order to be able to meet all of the Group's payment obligations when due. An intra-Group cash pool is used for pooling surplus cash as far as regulatory and legal provisions allow. All of the Group's cash investments are short-term, in order to ensure rapid availability, and are largely collateralised using liquid bonds from prime-rated issuers. Moreover, Deutsche Börse AG has access to external sources of financing, such as bilateral and syndicated credit lines, as well as a commercial paper programme (see [note 23 to the consolidated financial statements](#) for details on financial risk management). In recent years, Deutsche Börse AG has leveraged its access to the capital markets to issue corporate bonds in order to meet its structural financing needs.

---

## Debt instruments issued by Deutsche Börse AG (outstanding as at 31 December 2019)

Type	Issue volume	ISIN	Term	Maturity	Coupon (p.a.)	Listing
Fixed-rate bearer bond	€600 m	DE000A1RE1W1	10 years	October 2022	2.375%	Luxembourg /Frankfurt
Fixed-rate bearer bond	€500 m	DE000A1684V3	10 years	October 2025	1.625%	Luxembourg /Frankfurt
Fixed-rate bearer bond	€600 m	DE000A2LQJ75	10 years	March 2028	1.125%	Luxembourg /Frankfurt
Fixed-rate bearer bond (hybrid bond)	€600 m	DE000A161W62	Call date 5.5 years/final maturity in 25.5 years	February 2021/ February 2041	2.75% (until call date)	Luxembourg /Frankfurt

## Capital management

The Group's clients generally expect it to maintain conservative interest coverage and leverage ratios, and hence to achieve a good credit rating.

The Group is committed to achieving the minimum financial risk profile that is consistent with an AA rating in accordance with S&P Global Ratings methodology. Furthermore, the company endeavours to maintain the strong AA credit rating of its subsidiary Clearstream Banking S.A., in order to ensure the long-term success of its Clearstream securities settlement and custody segment. The activities of the Eurex Clearing AG subsidiary also require Deutsche Börse AG to have and maintain a strong credit quality.

To this end, the Group aims to achieve the following relevant key performance indicators:

- Net debt to EBITDA ratio: no more than 1.75
- Free funds from operations (FFO) to net debt: equal to or greater than 50 per cent
- Interest cover ratio: at least 14
- Tangible equity (for Clearstream Banking S.A.): total of at least €1.1 billion

When calculating these key performance indicators, Deutsche Börse Group closely follows the methodology applied by S&P Global Ratings:

- To determine EBITDA, reported EBITDA is adjusted by the result from strategic investments, as well as by unfunded pension obligations. EBITDA for 2019 was €1,679 million.
- In order to determine FFO, interest and tax expenses are deducted from EBITDA, applying the respective imputed adjustments for unfunded pension obligations etc. FFO in 2019 amounted to €1,294 million.
- The Group's net debt is reconciled by first deducting 50 per cent of the hybrid bond, as well as the surplus cash as at the reporting date, from gross debt (i.e. from interest-bearing liabilities). Liabilities from operating leases and unfunded pension obligations are then added. Net debt for 2019 totalled €1,638 million.
- The parameters used to determine interest expenses include interest expenses for financing Deutsche Börse Group, less interest expenses of Group entities which are also financial institutions – including Clearstream Banking S.A., Clearstream Banking AG, and Eurex Clearing AG. Interest expenses incurred which are not related to Group financing are not included in the calculation of interest expenses. Only 50 per cent of the hybrid bond is counted towards interest expenses. Interest expenses totalled €49 million in 2019.

Deutsche Börse AG has declared its intention not to reduce the tangible equity (equity less intangible assets) of Clearstream Banking S.A. below €1,100 million. Clearstream Banking S.A. exceeded this threshold during the year under review, with a level of €1,448 million.

The following table "Relevant parameters" illustrates the calculation methodology and shows the values for 2019.

Relevant key performance indicators according to the adjusted calculation method			
		Target figures	2019
Net debt / EBITDA		≤ 1.75	1.0
Free funds from operations (FFO) / net debt	%	≥ 50	79
Interest coverage ratio		≥ 14	34
Tangible equity of Clearstream Banking S.A. (as at the reporting date)	€m	≥ 1,100	1,448

S&P Global Ratings bases the determination of the key performance indicators on the corresponding weighted average of the reported or expected results of the previous, the current and the following reporting period. To ensure the transparency of the key performance indicators, the Group reports them based on the respective current reporting period.

## Dividends and share buy-backs

Deutsche Börse Group generally aims to distribute dividends equivalent to between 40 and 60 per cent of adjusted net profit for the period attributable to Deutsche Börse AG shareholders. Within this range, the Group manages the actual payout ratio mainly relative to the business performance and based on continuity considerations. In addition, the company plans to invest the remaining available funds primarily into complementary external development. Should the investment of these funds by the Group not be possible, additional share buy-backs would represent another possibility for distribution.

For the 2019 financial year, Deutsche Börse AG is proposing that the Annual General Meeting resolve to pay a dividend of €2.90 per no-par value share (2018: €2.70). This dividend is equivalent to a distribution ratio of 48 per cent of adjusted net profit for the period, attributable to shareholders of Deutsche Börse AG, adjusted for the non-recurring items described in the [Results of operations](#) (2018: 49 per cent, also adjusted). Given 183.4 million no-par shares bearing dividend rights, this would result in a total dividend payment of €532.0 million (2018: €495.0 million). The number of shares bearing dividend rights is produced by deducting 6.6 million treasury shares from the ordinary share capital of 190.0 million shares.

## Credit ratings

### Credit ratings

	Long-term	Short-term
Deutsche Börse AG		
S&P Global Ratings	AA	A- 1+
Clearstream Banking S.A.		
Fitch Ratings	AA	F1+
S&P Global Ratings	AA	A- 1+

Deutsche Börse AG regularly has its credit quality reviewed by S&P Global Ratings, while Clearstream Banking S.A. is rated by Fitch Ratings and S&P Global Ratings.

On 29 August 2019, Fitch Ratings affirmed the AA credit rating of Clearstream Banking S.A. with a stable outlook. The rating reflects Clearstream Banking's leading position in the post-trade business and its diligent liquidity management, as well as its impeccable capitalisation.

In 2019, S&P Global Ratings left the AA credit ratings of Deutsche Börse AG and Clearstream Banking S.A. unchanged. Deutsche Börse AG's rating reflects the assumption that the Group will continue its growth strategy and reach at least the lower end of its growth targets. Clearstream Banking S.A.'s rating reflects its strong risk management, minimal debt levels and strong position on the international capital markets, especially through its international custody and transaction business.

As at 31 December 2019, Deutsche Börse AG was one of only two DAX-listed companies awarded an AA rating by S&P Global Ratings. The rating histories of Deutsche Börse AG and Clearstream Banking S.A. are given in the [five-year overview](#).

## Net assets

Material changes to net assets are described below; the full consolidated balance sheet is shown in the [consolidated financial statements](#).

### Consolidated balance sheet (extract)

	31 Dec 2019 €m	31 Dec 2018 €m
<b>ASSETS</b>		
Non-current assets	11,706.9	15,642.0
thereof intangible assets	5,008.4	4,191.6
thereof goodwill	3,470.5	2,865.6
thereof other intangible assets	1,040.9	952.7
thereof financial assets	6,027.6	11,168.6
thereof financial assets measured at amortised costs	698.7	1,057.1
thereof equity investments measured at FVOCI	66.3	108.8
thereof financial instruments held by central counterparties	5,234.2	9,985.4
Current assets	125,458.4	146,257.1
thereof financial instruments held by central counterparties	78,301.5	94,280.3
thereof restricted bank balances	29,988.7	29,833.6
thereof other cash and bank balances	888.1	1,322.3
<b>EQUITY AND LIABILITIES</b>		
Equity	6,110.6	4,963.4
Liabilities	131,054.7	156,935.7
thereof non-current liabilities	8,610.4	12,854.3
thereof financial instruments held by central counterparties	5,234.2	9,985.4
thereof financial liabilities measured at amortised cost	2,627.2	2,283.2
thereof deferred tax liabilities	226.3	194.5
thereof current liabilities	122,444.3	144,081.4
thereof financial instruments held by central counterparties	77,411.5	94,068.3
thereof financial liabilities measured at amortised cost	14,432.1	19,219.7
thereof cash deposits by market participants	29,755.8	29,559.2

Deutsche Börse Group's total assets have decreased in comparison with the previous year – this is primarily due to the fall in the financial instruments held by central counterparties on the reporting date.

Intangible assets increased significantly against the background of the acquisitions, which led to an increase in goodwill. Current assets – adjusted for the decline in financial instruments held by central counterparties – are at the same level as in the previous year.

The Group's equity increased significantly year-on-year, due on the one hand to the acquisition of Axioma respectively General Atlantic's stake in Deutsche Börse Group's index business and on the other hand to the retained profit of the previous year.

Overall, Deutsche Börse Group invested €184.7 million in the continued business in intangible assets and property, plant and equipment (capital expenditure or capex) in the reporting period (2018: €160.0 million). The Group's largest investments were made in the Clearstream and Eurex segments.

### Working capital

Working capital comprises current assets less current liabilities, excluding technical closing-date items. Current assets, excluding technical closing-date items, amounted to €898.5 million (2018: €1,098.3 million). As Deutsche Börse Group collects fees for most of its services on a monthly basis, the trade receivables of €447.3 million included in current assets as at 31 December 2019 (31 December 2018: €397.5 million) were relatively low compared with net revenue. The current liabilities of the Group, excluding technical closing-date items, amounted to €1,072.9 million (2018: €1,468.5 million, excluding technical closing-date items). The Group therefore had slightly negative working capital of €170.6 million at the end of the year (2018: €370.2 million).

### Technical closing-date items

The “financial instruments of the central counterparties” item relates to the function performed by Eurex Clearing AG and European Commodity Clearing AG: since they act as the central counter parties for Deutsche Börse Group’s various markets, their financial instruments are carried in the balance sheet at their fair value. The financial instruments of the central counterparties are described in detail in the [risk report](#) and in [notes 3, and 13 to the consolidated financial statements](#).

Market participants linked to the Group’s clearing houses partly provide collateral in the form of cash deposits, which are subject to daily adjustments. The cash deposits are generally invested on a secured basis overnight by the central counterparties and reported in the balance sheet under “restricted bank balances”. The total value of cash deposits at the reporting dates relevant for the reporting period (31 March, 30 June, 30 September and 31 December) varied between €30 billion and €32 billion (2018: between €28 billion and €30 billion).

### Value added: breakdown of company performance

Value added is calculated by subtracting depreciation and amortisation as well as external costs from the company performance. In 2019, the value added by Deutsche Börse Group amounted to €2,194.8 million (2018: €2,028.3 million). The breakdown shows that large portions of the generated value added flow back into the economy: 25 per cent (€548.7 million) benefit shareholders in the form of dividend payments, while 34 per cent (€746.2 million) was attributable to staff costs in the form of salaries and other remuneration components. Taxes accounted for 17 per cent (€373.1 million), while 2 per cent (€43.9 million) was attributable to external creditors. The 22 per cent value added that remained in the company (€482.9 million) is available for investments in growth initiatives, among other things.



## Overall assessment of the economic position by the Executive Board

The economic outlook deteriorated further in the 2019 financial year, partly against the backdrop of a continuing trade conflict and the uncertainty surrounding the outcome of an impending Brexit. This was reflected mainly in reticence among market participants, as well as cash outflows from European securities. As a result, volatility was on average lower than in the previous year leading to lower trading in financial derivatives. An environment of persistently low interest rates also had a negative impact on trading volumes in interest rate derivatives. However, averagely higher interest rates on customer deposits held in US dollars resulted in a positive development of the net interest income from banking business. Cyclical effects were unable to drive the Group's growth any further compared to the previous year and broadly offset each other over the period. Consequently growth in the reporting period was primarily the result of structural factors including the development of new products and services, the acquisition of additional market share and the development of new markets. Overall the Group's net revenue from these activities increased by 5 per cent in line with the Executive Board's expectations. Taking into account net revenue from consolidation effects the Group recorded net revenue growth of 6 per cent. After adjusting the previous year's figures to reflect IFRS 16 operating costs rose by 8 per cent. In addition to increased staff costs due to higher numbers of employees another contributing factor was the consolidation of companies acquired during the course of 2019. On an adjusted basis the Group achieved a 10 per cent increase in net profit attributable to Deutsche Börse AG shareholders, which was also in line with the Executive Board's expectations. Based on this, the Executive Board considers Deutsche Börse Group's financial position to be very solid during the reporting period. The Group generated high operating cash flows as in the previous year. Given the increase in adjusted EBITDA, Deutsche Börse was able to further improve the ratio of net debt to EBITDA at Group level: With a value of 1.0 the target value of 1.75 was clearly undercut.

Deutsche Börse AG has offered its shareholders increasing dividends for years – and the 2019 financial year is no exception. With a proposed dividend of €2.90 (2018: €2.70) this represents a 7 per cent increase on the previous year. As a result of the improvement in earnings the distribution ratio fell slightly from 49 per cent in the previous year to 48 per cent in the year under review (adjusted in each case for non-recurring effects) and was thus in line with the Executive Board's target range of 40 to 60 per cent.

## Deutsche Börse Group: five-year overview

		2015	2016	2017	2018	2019
<b>Consolidated income statement</b>						
Net revenue	€m	2,220.3 <sup>1)</sup>	2,388.7	2,462.3	2,779.7	2,936.0
thereof net interest income from banking business	€m	50.6	84.0	132.6	204.5	246.1
Operating costs (excluding depreciation, amortisation and impairment losses)	€m	- 1,164.2 <sup>1)</sup>	- 1,186.4	- 1,131.6	- 1,340.2	- 1,264.4
Earnings before interest, tax, depreciation and amortisation (EBITDA)	€m	1,054.6 <sup>1)</sup>	1,239.2	1,528.5	1,443.7	1,678.3
Depreciation, amortisation and impairment losses	€m	- 119.0	- 131.0	- 159.9	- 210.5	- 226.2
Net profit for the period attributable to Deutsche Börse AG shareholders	€m	613.3 <sup>1)</sup>	722.1	874.3	824.3	1,003.9
Earnings per share (basic)	€	3.31 <sup>1)</sup>	3.87	4.68	4.46	5.47
<b>Consolidated cash flow statement</b>						
Cash flows from operating activities	€m	10.1	1,621.4	1,056.2	1,298.2	926.1
<b>Consolidated balance sheet</b>						
Non-current assets	€m	14,386.9	11,938.7	10,883.7	15,642.0	11,706.9
Equity	€m	3,695.1	4,623.2	4,959.4	4,963.4	6,110.6
Financial liabilities measured at amortised cost	€m	2,546.5	2,284.7	1,688.4 <sup>2)</sup>	2,283.2	2,627.2
<b>Performance indicators</b>						
Dividend per share	€	2.25	2.35	2.45	2.70	2.90 <sup>3)</sup>
Dividend payout ratio	%	55 <sup>4)</sup>	54 <sup>4)</sup>	53 <sup>4)</sup>	49 <sup>4)5)</sup>	48 <sup>4)5)</sup>
Employees (average annual FTEs)		4,460 <sup>1)</sup>	4,731	5,183	5,397	5,835
Personnel expense ratio (staff costs / net revenue)	%	27	25	26	30	25
Tax rate	%	26	27	27 <sup>4)</sup>	27 <sup>4)</sup>	26 <sup>4)</sup>
Return on shareholders' equity (annual average) <sup>6)</sup>	%	20 <sup>4)</sup>	19 <sup>4)</sup>	18 <sup>4)</sup>	21 <sup>4)</sup>	21 <sup>4)</sup>
<b>Deutsche Börse shares</b>						
Year-end closing price	€	81.39	77.54	96.80	104.95	140.15
Average market capitalisation	€bn	14.7	14.0	17.2	21.5	24.0
<b>Rating key figures</b>						
Net debt / EBITDA		2.2	1.2	1.1	1.1	1.0
Free Funds from Operations (FFO) / EBITDA	%	35 <sup>1)</sup>	58	59	69	79
Deutsche Börse AG: S&P Global Ratings	Rating	AA	AA	AA	AA	AA
Clearstream Banking S.A.: S&P Global Ratings	Rating	AA	AA	AA	AA	AA
Fitch	Rating	AA	AA	AA	AA	AA
<b>Market indicators</b>						
<b>Xetra®, Börse Frankfurt and Tradegate</b>						
Trading volume (single-counted)	€bn	1,636	1,377	1,468	1,720	1,500
<b>Eurex®</b>						
Number of contracts	m	1,673 <sup>1)</sup>	1,728	1,676	1,952	1,947
<b>Clearstream</b>						
Assets under custody (annual average)	€bn	11,460	11,173	11,246	11,303	11,561
<b>Investment fund services (IFS)</b>						
Assets under custody (annual average)	€bn	1,815	1,902	2,219	2,385	2,502

1) Figure for 2015 without consideration of International Securities Exchange (ISE), which represents a discontinued operation due to its disposal as at 30 June 2016

2) Bonds that will mature in the following year are reported under "other current liabilities" (2017: €599.8 million)

3) Proposal to the Annual General Meeting 2020

4) Adjusted for exceptional effects; please refer to the consolidated financial statements for the respective financial year for adjustment details

5) Amount based on the proposal to the Annual General Meeting 2020

6) Net profit for the period attributable to Deutsche Börse AG shareholders / average shareholders' equity for the financial year based on the quarter-end balance of shareholders' equity

## Report on post-balance sheet date events

On 21 January 2020 Clearstream the post-trading service provider of Deutsche Börse Group and UBS agreed on a partnership in the fund services sector. The companies have entered into an agreement under which Clearstream will acquire 51 per cent of the Zurich-based fund distribution platform Fondcenter AG from UBS for a purchase price of CHF389 million. UBS will retain a minority stake of 49 per cent. The transaction is expected to be closed in the second half of 2020. Upon completion of the transaction Fondcenter will fully consolidate. The newly formed company will become the competence centre for fund distribution services within Deutsche Börse Group and the combination with the existing Clearstream Fund Desk (formerly Swisscanto Funds Centre) creates a leading provider of fund distribution services with high benefits for customers of UBS and Clearstream.

## Combined non-financial statement

This combined non-financial statement for Deutsche Börse Group and the parent company Deutsche Börse AG is integrated into the combined management report; it fulfils the provisions of sections 289b–e and 315b–c of the Handelsgesetzbuch (HGB, German Commercial Code). It is also in accordance with the standards (“Core” option) of the Global Reporting Initiative (GRI). A detailed overview of all GRI indicators (GRI index) is available at [www.deutsche-boerse.com](http://www.deutsche-boerse.com) > Sustainability > Reporting > GRI. More detailed information that is referenced in the non-financial statement does not form part of the statement itself. Provided no explicit statements are made for the parent company, qualitative information within the meaning of the combined management report applies to Deutsche Börse Group and the parent company Deutsche Börse AG. In some cases, quantitative details concerning the parent entity are disclosed separately.

Deutsche Börse Group uses not only the financial figures outlined in the [“Group management” section](#) for Group management, but also non-financial performance indicators – specifically, the availability of its trading systems for the cash and derivatives markets and the share of women in executive positions. For details regarding the targets pursued and the results achieved in the year under review, please refer to the [sections entitled “Social matters – systems availability”](#) and [“Combined corporate governance statement and corporate governance report – target figures for the proportion of female executives beneath Executive Board level”](#).

A materiality analysis comprising continuous analyses and assessments of relevant internal and external stakeholders’ expectations and requirements is a key element of Deutsche Börse Group’s sustainability strategy. This process is aimed at identifying the issues required to understand the Group’s business performance, operating results, the capital corporation situation and the impact of its activities on non-financial aspects. Thus, the Group is able to identify opportunities and risks in its core business activities at an early stage and define concrete areas of entrepreneurial activity on this basis.

The combined non-financial statement outlines the objectives, actions, due diligence processes applied, the involvement of the Group's management and other stakeholders, as well as the concept outcomes with respect to employee matters (see the [“Employees” section](#)), compliance (including combating corruption and bribery), social matters and product matters.

As a service provider with a focus on electronic market infrastructure services, Deutsche Börse Group engages in relatively little environmentally sensitive activity from a corporate ecology perspective; hence, in this combined non-financial statement, no detailed report is provided in this respect. Nonetheless, the Group is committed to protecting the environment and conserving natural resources. Deutsche Börse Group has outlined its environmental policies in its [code of business conduct](#). Indicators for its environmental sustainability performance are available on its website: [www.deutsche-boerse.com > Sustainability > Reporting > ESG Indicators](#). Moreover, environmental protection issues are becoming increasingly relevant for the design of individual products or services; related measures are described in detail in the [“Product matters” section](#). Deutsche Börse Group has also published a [climate strategy](#) aligned with the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD) in 2019.

The area of human and employee rights was identified as non-material for Deutsche Börse Group during the materiality analysis, and is thus not included in the non-financial statement. Nevertheless, active protection of human and employee rights is a key element of Deutsche Börse Group's corporate responsibility: the Group addresses this at various points along the value creation chain. In addition, complying with human and employee rights is a key pillar of the Group's human resources policy. Specific topics (e.g. diversity) are discussed in the [“Employees” section](#) and on the website [www.deutsche-boerse.com > Sustainability > Set an example > Employees > Guiding principles](#). Deutsche Börse Group furthermore reports on sustainability in procurement management on its website at [www.deutsche-boerse.com > Sustainability > Set an example > Procurement management](#) and is aware of its responsibility as a global company. It joined the UN Global Compact in 2009.

As an international capital markets organiser, Deutsche Börse Group aims to build and grow market participants' trust in its market structures. As a responsible member of society, it also endeavours to use the expertise it deploys to successfully manage its core business in such a way that enables contribution to resolving social challenges. In this context, Deutsche Börse Group wishes to set a good example. Please refer to the [“Fundamental information about the Group” section](#) for a detailed description of Deutsche Börse Group's business model. Deutsche Börse Group acts “with an eye to the future”. Its sustainability strategy of the same name defines the Group's understanding of entrepreneurial responsibility and guides its operations. Please see the [section entitled “Management approach for a Group-wide commitment to sustainability”](#).

As a member of the UN Global Compact (UNGC) and the Sustainable Stock Exchanges initiative (SSE), Deutsche Börse Group has committed itself to implementing the 17 Sustainable Development Goals (SDGs) of the “2030 Agenda for Sustainable Development” set by the UN. An overview of Deutsche Börse Group's contribution to the corresponding targets can be found in the following [“Overview: key sustainability aspects” table](#).

## Overview: key sustainability aspects

Relevant contents of the non-financial statement according to section 289c HGB <sup>1)</sup>	Areas for action relevant to Deutsche Börse Group	UN Sustainable Development Goals (SDGs) covered by Deutsche Börse Group
<b>Business model</b> <a href="#">p. 1</a>		
§ Overview of Deutsche Börse Group	§ Economic performance	§ SDG 7 "Affordable and clean energy"
§ Objectives and strategies	§ Stakeholder engagement	§ SDG 8 "Decent work and economic growth"
§ Internal management	§ Brand management	§ SDG 9 "Industry, innovation and infrastructure"
§ Research and development activities		§ SDG 12 "Responsible consumption and production"
		§ SDG 17 "Partnerships for the goals"
<b>Mandatory aspects</b>		
<b>Employee matters</b> <a href="#">p. 39</a>		
§ Staff development	§ Human Capital Development	§ SDG 4 "Quality education"
§ Human resources strategy	§ Human and employee rights	§ SDG 5 "Gender equality"
§ Promoting diversity and gender equality		§ SDG 8 "Decent work and economic growth"
§ Employer attractiveness		§ SDG 10 "Reduce inequalities"
<b>Social matters</b> <a href="#">p. 46</a>		
§ Sustainable financial market initiatives	§ Economic participation and education	§ SDG 4 "Quality education"
§ Stable, transparent and fair markets	§ Transparent, stable and fair markets	§ SDG 8 "Decent work and economic growth"
· Systems availability		§ SDG 9 "Industry, innovation and infrastructure"
· Market transparency		§ SDG 10 "Reduce inequalities"
· Stable financial markets		§ SDG 12 "Responsible consumption and production"
		§ SDG 16 "Peace, justice and strong institutions"
		§ SDG 17 "Partnerships for the goals"
<b>Anti-corruption and bribery matters</b> <a href="#">p. 42</a>		
§ Compliance organisation	§ Good governance	§ SDG 8 "Decent work and economic growth"
§ Code of business conduct		§ SDG 10 "Reduce inequalities"
§ Compliance rules		§ SDG 16 "Peace, justice and strong institutions"
§ Compliance training		
§ Whistleblowing system		
§ Analysis of compliance risks		
§ Due diligence/customer review		
§ Data protection		
§ Inside information		
§ Internal/external audit		
<b>Further relevant aspects</b>		
<b>Product matters</b> <a href="#">p. 49</a>		
§ Customer satisfaction	§ Sustainable product and service portfolio	§ SDG 7 "Affordable and clean energy"
§ Sustainable index products		§ SDG 8 "Decent work and economic growth"
§ Eurex ESG derivatives offering		§ SDG 9 "Industry, innovation and infrastructure"
§ Energy and energy-related markets		§ SDG 12 "Responsible consumption and production"

1) HGB = Handelsgesetzbuch (German Commercial Code)

## Employees

This chapter provides an overview of key indicators reflecting staff developments at Deutsche Börse Group; at the same time, it satisfies the requirements for reporting on employee matters, as part of the non-financial statement.

### Staff development

As at 31 December 2019, Deutsche Börse Group employed a total of 6,775 staff (31 December 2018: 5,964), drawn from 105 nationalities at 41 locations worldwide. The average number of employees in the reporting period was 6,286 (2018: 5,800). On Group level, this corresponds to an increase of around 8.4 percent compared to the previous year's reporting date.

The fluctuation rate was 8.7 per cent (unadjusted: 10.6 per cent; 31 December 2018: 8.7 and 9.3 per cent). At the end of the year under review, the average length of service for the company was 8.9 years (2018: 9.5 years).

The number of Deutsche Börse AG's employees rose by 54 during the year under review to 1,556.3 as at 31 December 2019 (comprising 563,5 women and 992,8 men; 31 December 2018: 1,502). The average number of employees at Deutsche Börse AG for the 2019 financial year was 1,505 (2018: 1,465). As at 31 December 2019, Deutsche Börse AG employed staff at six locations worldwide.

For more details, please refer to the [table](#) entitled "Key data on Deutsche Börse Group's workforce as at 31 December 2019".

### Human resources strategy

Employee commitment and highly developed skills are among the cornerstones supporting Deutsche Börse Group's business success. Its corporate culture is characterised by a sense of responsibility, commitment, flexibility and teamwork. Deutsche Börse Group aims to make sure that staff with these qualities continue to join the company in the future and that they stay for the long term, if possible. Deutsche Börse Group's Executive Board is also engaged in employee matters through one of its Board members who is simultaneously Director of Labour Relations as well as through other regular reporting formats. The Group's workforce is diverse in many respects – including nationality, age, gender, religion, or cultural and social origin. The company promotes this diversity and benefits from it, creating an environment conducive to integration from which the corporate culture benefits. This is also in the interests of Deutsche Börse Group's business: its broad range of diverse products and services and the international composition of its client base pose specific requirements regarding the professional and cross-cultural expertise of employees.

Within the scope of its growth strategy, the Group promotes a high-performance culture with a distinct focus on clients' needs and innovation. In order to encourage this culture, Deutsche Börse Group has a remuneration system for executive staff in place that incorporates growth, performance and financial indicators to a greater extent than in previous years.

In July 2019, the Supervisory Board adopted the human resources strategy 2020 initiated by the Executive Board. This strategy is built on a detailed analysis of employee needs and the relevant human resources indicators (e.g. recruiting metrics, key figures on staff development) as well as on the results of an employee survey conducted in February 2019. It rests on the four pillars "attract", "develop", "retain" and "lead". According to these pillars, concepts for employer branding, recruiting, training & development, remuneration and flexible working time models have been drawn up. Quick wins that were realised immediately in 2019 included recruiting via LinkedIn, the Working from Home Policy, the provision of the "Job Bikes" initiative and a promotion committee which convenes on a quarterly basis.

In the course of implementing the strategy, Human Resources was split into an operative business partner team and a strategic concept team. Moreover, expansion of the Shared Service Center is planned over the medium term.

#### Promoting diversity and gender equality

As a global enterprise, Deutsche Börse Group advocates openness and fairness at the workplace. This is why Deutsche Börse AG signed the [Diversity Charter](#) to support recognition, appreciation and integration of diversity in the working environment. For Deutsche Börse Group, diversity within the company is the basis for achieving a corporate culture characterised by open dialogue, trust and mutual acceptance.

Deutsche Börse Group does not tolerate any discrimination, whether on the grounds of gender, sexual orientation, race, nationality, ethnic origin, age, religion or disability, and irrespective of whether behaviour among employees is concerned or the placement of orders with third parties. Deutsche Börse Group's Equal Opportunities Officers safeguard the equal treatment of staff members. Moreover, Human Resources has implemented processes designed to ensure equal treatment in the selection of personnel and enable the Group to take prompt action whenever discrimination is suspected. In 2019, no incidents of discrimination were reported at the Frankfurt/Eschborn, Luxembourg, Prague and Cork locations (which are covered by reporting); accordingly, no countermeasures were required.

#### Employer attractiveness

To remain sustainably successful, the recruiting of top talents is of the essence. Thus the participation at university-based events and social network activities have been increased, and a globally uniform employee referral programme has been established.

Also in place are the "Evolving Leaders" programme, designed to identify and promote future executives from within the Group, as well as the "Show Your Talent" initiative, which is set to create visibility for and support employees' entrepreneurial and innovative potential. At the same time, the programmes are designed to strengthen staff commitment and their performance orientation.

From initial contact to the actual meeting, mentors and mentees can connect on the "Meet your Mentor" platform. Experienced colleagues assume sponsorship for other employees, making their work easier. As mentors, they assist new colleagues in networking beyond their own department, help them to get to know the company and offer a comprehensive, cross-divisional understanding. The "New Role" mentoring programme makes it easier for colleagues to take on a new executive role.

To increase the share of women in executive positions the company ensures that women are identified as candidates. In addition, Deutsche Börse Group offers numerous additional tools to promote female employees, such as targeted succession planning and a mentoring programme that involves internal and external mentors. Meetings and training courses designed specifically for women are held regularly within the scope of a women's network. For details regarding targets for female quotas, please refer to the [section entitled "Combined corporate governance statement and corporate governance report – target figures for the proportion of female executives beneath the Executive Board"](#) and the [section entitled "Comparison with the forecast for 2019"](#).

Deutsche Börse Group assigns high priority to training its staff and to providing continuing professional development: employees continuously enhance and renew their knowledge by attending exchange-specific training courses. These include, in particular, IT trainings, e.g. for cloud computing, and career path trainings, e.g. for project management and leadership. With regard to personal development, the Group also offers numerous online and live trainings that are tailored to the target group, e.g. for

communication, responsibility assumption or teamwork skills. Deutsche Börse also supports its employees and executives in facing their individual challenges by offering a broad range of internal and external professional development measures (see the [“Key data on Deutsche Börse Group’s workforce as at 31 December 2019”](#) table).

#### Key data on Deutsche Börse Group’s workforce as at 31 December 2019 (part 1)

	Deutsche Börse AG		Deutsche Börse Group			
	All locations		Germany		Luxembourg	
	Male	Female	Male	Female	Male	Female
Employees (HC)	993	564	1,772	1,088	655	431
50 years and older	342	130	520	240	206	102
40 – 49 years	270	134	489	263	255	161
30 – 39 years	278	216	576	430	146	115
Under 30 years	103	84	188	155	47	53
Average age	44	40	42	40	44	42
Full-time employees	966	439	1,714	793	628	295
Part-time employees	27	125	58	295	27	136
<b>Length of service</b>						
Under 5 years (%)	45	46	45	45	27	29
5–15 years (%)	23	25	27	27	23	30
Over 15 years (%)	32	29	28	28	50	41
<b>Staff turnover</b>						
Joiners	125	76	255	156	65	39
Leavers	54	39	107	70	36	24
Training days per staff member (FTE's)	4.18	4.33	3.98	4.44	3.91	4.75



## Key data on Deutsche Börse Group's workforce as at 31 December 2019 (part 2)

Deutsche Börse Group							
	Czech Republic		Ireland		Other locations		Total (part 1 and 2)
	Male	Female	Male	Female	Male	Female	
Employees (HC)	637	372	219	255	888	459	6,775
50 years and older	21	8	13	8	168	51	1,337
40–49 years	137	55	50	59	250	101	1,819
30–39 years	357	225	66	118	293	199	2,525
Under 30 years	122	84	90	70	177	108	1,094
Average age	36	35	34	35	39	37	39.83
Full-time employees	633	350	218	232	873	423	6158
Part-time employees	4	22	1	23	15	36	617
Length of service							
Under 5 years (%)	65	60	64	42	66	62	49
5–15 years (%)	35	40	29	47	29	36	30
Over 15 years (%)	0	0	7	11	5	4	21
Staff turnover							
Joiners	144	75	73	55	156	88	1,106
Leavers	65	29	31	31	101	52	546
Training days per staff member (FTE's)	2.67	3.03	3.07	2.02	2.23	2.81	3.52

## Compliance – including combat against corruption and bribery

Responsible entrepreneurial action implies adherence to laws and regulations; it is also based on the principle of integrity and ethically irreproachable conduct at all times. Deutsche Börse Group has implemented a compliance management system based on regulatory requirements, with the objectives of preventing misconduct and avoiding liability and reputational risks for the Group, its legal representatives, executives and staff. Beyond business-related compliance requirements, the focus is on strengthening a uniform compliance culture throughout the Group, especially with a view to enhancing compliance awareness. The compliance management system – under the responsibility of, and promoted by, the Executive Board of Deutsche Börse AG – therefore constitutes an indispensable element of good corporate governance with respect to compliance. Such a system provides the foundation for sustainable risk transparency; specifically, it facilitates mitigating risks in the areas of money laundering/terrorism financing, data protection, corruption, as well as market manipulation and insider trading; it also monitors requirements concerning financial sanctions and embargoes.

The compliance management system applies to Deutsche Börse AG as well as to domestic and international companies in which Deutsche Börse AG holds a majority interest (whether directly or indirectly). Thanks to its Group-wide compliance approach, Deutsche Börse Group safeguards the respective Group entities' adherence with applicable law and regulatory requirements. The compliance functions and the Chief Compliance Officers of the individual Group entities have a unified reporting line to the Group Chief Compliance Officer, who in turn reports directly to the Executive Board of Deutsche Börse AG. Compliance reporting includes all relevant compliance risk areas within the mandate of the compliance function.

Deutsche Börse Group is continually developing its compliance management system in order to deal with rising complexity and increasing regulatory requirements. Measures have been implemented to prevent, identify, and mitigate Compliance risks and where applicable, to ensure accountability for Compliance incidents, – especially with regard to the areas of money laundering/terrorism financing, financial sanctions and embargoes, as well as market manipulation, insider trading and data protection.

For this purpose, Deutsche Börse Group is aligning its system with the recommendations of an internationally recognised standard (ISO 19600 “Compliance Management Systems – Guidelines”). Based on this standard, the Group’s compliance functions identify fields of action and measures to ensure compliance management meets the requirements as they continue to change.

As a member of the UN Global Compact, Deutsche Börse AG has committed to observe the related principles, notably the principle to work against corruption in all its forms, which includes extortion and bribery. In line with its code of business conduct, Deutsche Börse Group prohibits its employees from involving themselves in corruption, or from taking part in any actions which may lead to the impression that the Group promises, arranges, provides, receives, or asks for inadmissible benefits. Bribery and facilitation payments are prohibited.

It is Deutsche Börse Group’s guiding principle that the actions and decisions of all employees are taken objectively and with integrity. Management plays a particularly important role in this context. Deutsche Börse Group is fully aware of the so-called “tone from the top” for achieving a high level of attention for avoiding compliance risks – both within the Group and amongst market participants. In order to sustainably enshrine this guiding principle, and to prevent Deutsche Börse Group and its staff from legal sanctions and reputational damage, Compliance has implemented a variety of preventative measures in a risk-oriented approach.

#### Compliance organisation

Compliance has overall responsibility for identifying and managing Group-wide compliance risks. Compliance devises risk-oriented measures in order to contain and manage identified risks; to communicate risks, incidents, and the effectiveness of the measures taken; it ensures continuous improvement of the compliance management system by way of regular adjustments to the relevant internal policies and processes.

Key compliance topics are discussed by Deutsche Börse’s Group Compliance Committee, which comprises senior management representatives from the business divisions and the relevant Group-wide control functions.

#### Code of business conduct

Deutsche Börse Group’s code of business conduct, which is communicated to all members of staff, summarises the most important aspects with regard to corporate ethics and compliance as well as appropriate conduct. The Code focuses on principles to guide decisions – not rules or lists of dos and don’ts. Moreover, Compliance provides employees with compliance-relevant information via the corresponding intranet pages, unless specific confidentiality aspects prevent such communication. For details, see the [§ section entitled “Combined corporate governance statement and corporate governance report”](#).

#### Compliance rules

Compliance has implemented Group-wide policies covering relevant local requirements. These rules are designed to ensure that the internal stakeholder groups acting on behalf of Deutsche Börse Group comply with the behavioural rules set out in such policies, with the objective of countering breaches of compliance throughout the Group in a preventive, investigative and consequential manner. Group-wide

communications via the intranet are geared towards providing employees (including members of the Executive Board and Managing Directors) with the necessary guidance in their daily work, and making sure they commit to such guidance.

#### Compliance training

Regular compliance training is essential for a culture of compliance throughout Deutsche Börse Group: employees worldwide are being trained with respect to relevant compliance issues – covering, in particular, the areas of money laundering/terrorism financing, data protection, corruption, market manipulation and insider trading. Managers who are exposed to increased compliance risks on account of their activities receive additional training in line with their needs. Participation in training measures covering the compliance topics mentioned above is mandatory for employees, as well as for management.

#### Whistleblowing system

Deutsche Börse Group has established a whistleblowing system, where employees can relay information about potential or actual breaches of prudential or regulatory rules and ethical standards, by phone or e-mail, whereby the anonymity of whistleblowers is a fundamental guarantee. Through its commitment to compliance awareness, Deutsche Börse Group cultivates an open approach to dealing with misconduct. For this reason, concerns are often passed on directly to the responsible line manager, or to Compliance. During 2019, six reports were submitted via the whistleblowing system, or directly via line managers or control functions (such as Compliance).

#### Analysis of compliance risks

In line with regulatory requirements, Deutsche Börse Group carries out detailed risk analyses and/or risk assessments, at least on an annual basis – specifically, it analyses the risk of being abused for the purposes of money laundering/financing of terrorism, corruption and securities law infringements. Such risk analyses and assessments comprise the Group's own business activities as well as business relationships, market participants, products and services. Risk-mitigating measures are derived from the compliance risks identified.

#### Due diligence review of clients, market participants, counterparties, and business partners, plus transaction monitoring

Deutsche Börse Group is constantly improving its processes for the onboarding of new clients and the review of existing clients ("Know Your Customer" processes). Depending on the assessment of client risk in each case, client relationships are subject to corresponding diligence duties concerning their establishment, update, and monitoring. Client relationships are not entered into where the risks involved are too high. Deutsche Börse Group analyses transaction data in order to identify activity which might indicate potential money laundering.

Deutsche Börse Group is exposed to the risk of sanctions being imposed upon business partners; moreover, there is a risk of bribery and corruption. In this connection, the Group examines its business partners, whereby their details are cross-checked against relevant data sources (such as embargo, sanctions, PEP, terrorist and other "black lists"). Appropriate measures are taken in the event of any match against such lists.

## Non-financial key performance figures: corruption/data protection

		2019	2018
<b>Corruption</b>			
Punished cases of corruption		0	1
Percentage of business units for which measures have been taken to address corruption risks	%	100	100
Number of employees who were trained in ABC measures (anti-bribery/corruption) <sup>1)</sup>		6,142	1,562
<b>Data protection</b>			
Number of justified customer complaints relating to data protection		0	0

1) The web-based ABC training is mandatory for employees of Deutsche Börse Group. The number of employees who attended anti-bribery/corruption trainings varies with respect to the year under review due to the training frequencies that extend over a period of several years

### Data protection/protection of personal data

Deutsche Börse Group has exposure to a plethora of data during the course of its business activities. The Group takes data protection very seriously and has taken measures to ensure compliance with data protection law, in particular the appropriate and transparent processing of personal data. The Executive Board has appointed a Data Protection Officer and established a data protection organisation to ensure, that the data privacy framework and the principles of the EU General Data Protection Regulation, which came into force in 2018, are adhered to. To this end, the data protection organisation informs and advises the individual legal entities with respect to data protection. The data protection organisation also serves as a contact for data protection authorities, and supports the business units in assessing risks related to the issue of data protection risks. It supports a stronger culture of data protection at Deutsche Börse Group by raising awareness and providing training on data protection in the context of the Group's business activities.

In 2019, the data protection organisation has integrated its monitoring framework into the structure of compliance safeguards and controls, as a second line of defence on data protection. The Data Protection Officer informs senior management on an annual basis about its activities to enhance the Data Protection framework.

### Inside information

In its capacity as an issuer of securities, Deutsche Börse Group has access to information which, in accordance with legal requirements, may be classified as inside information. To raise awareness amongst the employees affected, further measures were introduced on a Group-wide basis in 2019. These measures are designed to mitigate the risks of market manipulation and insider trading for employees' personal account transactions and are geared towards ensuring that maximum sensitivity is applied to dealing with such information.

Compliance maintains a Group-wide restricted list in which issuers or financial instruments are included if particularly sensitive, compliance-relevant information. Compliance may impose a general prohibition of trading for such issuers or financial instruments or may prohibit certain types of transactions. A confidential watch list is used to summarise compliance-relevant information about other issuers and/or financial instruments. In particular, Compliance uses these lists to monitor personal transactions of employees as well as information barriers.

### Internal/external audit

At least once a year, Internal Audit checks whether the measures and concepts of the compliance management system comply with the regulatory requirements, in a risk-based manner. Moreover, regulated entities are subject to statutory external audits.

### Social matters

As a market infrastructure provider, Deutsche Börse Group considers ensuring transparency on the capital markets as its direct responsibility. By ensuring such transparency, it fosters stability in these markets, promoting their economic success. The management is involved through its participation on the Group Sustainability Board; its approach on social and sustainability matters is described in detail in the section [☒ "Management approach for a Group-wide commitment to sustainability"](#).

### Sustainable financial market initiatives

The Green and Sustainable Finance Cluster Germany e. V. is an initiative committed to enhancing the expertise on sustainable finance in the market, putting that expertise to efficient use, and identifying (as well as taking) specific action to make national and international financial markets structures fit for the future. Kristina Jeromin, Head of Group Sustainability, is one of the two Managing Directors co-heading the Cluster. The Cluster has defined four fields of action: sustainable finance – status quo and innovation; data and digitalisation; metrics and standards; dialogue and knowledge development. It coordinates the activities of the participating institutions within these fields of action and brings them together with policymakers, regulators, civil society and academia. Within Germany, the Cluster collaborates closely with relevant political players in Berlin. At a European level, the Cluster is a member of the technical expert group on sustainable finance and thus actively involved in the European Commission's Action Plan on sustainable finance; the Cluster supports the Action Plan's implementation and is involved in the corresponding consultation process leading to future regulation. Since June 2019, Deutsche Börse Group and the Cluster have been members of the Sustainable Finance Committee to advise the German government and foster dialogue between the financial industry, real economy, civil society and academia.

### Stable, transparent and fair markets

#### Systems availability

Deutsche Börse AG operates its trading systems for the cash and derivatives markets as redundant server installations, distributed across two geographically separated, secure data centres. Should a trading system fail, it would be operated from the second data centre. Together with clients, Deutsche Börse successfully simulated this scenario – as well as the impact of local disruptions – within the scope of the FIA Test (the annual disaster recovery exercise conducted by the Futures Industry Association). Other disruptions, such as workstation malfunctions or personnel failures, were also tested. Thanks to manifold tests and the verified roll-out of software, as well as the continuous monitoring of the network, servers and applications, Deutsche Börse Group achieved a 100 per cent availability of its cash market trading system and 99.996 per cent for its derivatives trading system. These levels corresponded to downtimes of around 0 minutes and 12 minutes, respectively, during the entire year.

#### Market transparency

Section 42 (1) of the Börsengesetz (BörsG, German Exchange Act) authorises exchanges to impose additional admission requirements and further notification duties upon equity issuers, for parts of the regulated market. Frankfurter Wertpapierbörse (FWB<sup>®</sup>, the Frankfurt Stock Exchange) used this authorisation in its [☒ Exchange Rules \(section IV, sub-section 2\)](#) to create the "Prime Standard" in 2003. The Prime Standard segment is characterised, on the one hand, by special post-admission obligations, which are monitored by the FWB with any breaches sanctioned by the exchange's Sanctions

Committee; on the other hand, admission to the Prime Standard is a mandatory requirement for inclusion into one of Deutsche Börse AG's selection indices.

Over and above statutory requirements under the Wertpapierhandelsgesetz (WpHG, German Securities Trading Act), Prime Standard issuers must submit their financial reports (annual and half-yearly reports), as well as their quarterly statements for the first and third quarter, to FWB, in German and/or English and within set deadlines. Moreover, Prime Standard issuers must submit their calendars of material corporate events to FWB, hold an analysts' conference at least once a year and publish any inside information in English as well as German. All submissions to FWB must be carried out via the Exchange Reporting System (ERS®). This electronic interface allows for efficient sorting and display of data, helping to spot any impending failure to meet a deadline. This allows FWB to support issuers concerning their transparency duties in the best possible manner by sending out e-mail reminders prior to each deadline. All reports and data submitted to FWB are subsequently available on [www.boerse-frankfurt.de/en](http://www.boerse-frankfurt.de/en), the exchange's website, under the respective issuer's name. Information is thus accessible to interested investors in a compact, easy-to-find manner, creating a particular level of market transparency within the Prime Standard segment. Submission via ERS allows for monitoring fulfilment of transparency requirements – seamlessly and without delay.

In 2019, ten cases were submitted to the FWB Sanctions Committee for the delayed disclosure of information. Proceedings had been completed with the expiry of the 23 January 2020 deadline: Fines were imposed in an amount totalling €207,075.

Deutsche Börse Group launched a new segment for green bonds – bonds issued to raise capital for projects with climate and environmental benefits – on the Frankfurt Stock Exchange in November 2018. This “shop window” for green investors includes 235 bonds. All bonds in this segment comply with the [Green Bond Principles](#) of the International Capital Markets Association, which offer guidelines on key components of issuance: use of proceeds, process for project evaluation and selection, management of proceeds, as well as reporting. The new segment caters to the demand for sustainable financing, which is rising all over the world. Investors who care not only about the economic, but also the ecological return of their investment can find the right strategy at [www.boerse-frankfurt.de](http://www.boerse-frankfurt.de) [www.boerse-frankfurt.de > Bonds > Green Bonds](#). The bonds included in Deutsche Börse's segment are admitted for trading at various European stock exchanges, including the Frankfurt Stock Exchange.

#### Stable financial markets

The core economic function of an exchange is to preserve economic prosperity and create the right framework conditions for growth. As a global market infrastructure provider, Deutsche Börse Group operates markets that help enterprises of all sizes to raise equity and debt – which in turn enables them to grow, create and protect jobs and contribute to a higher level of value creation.

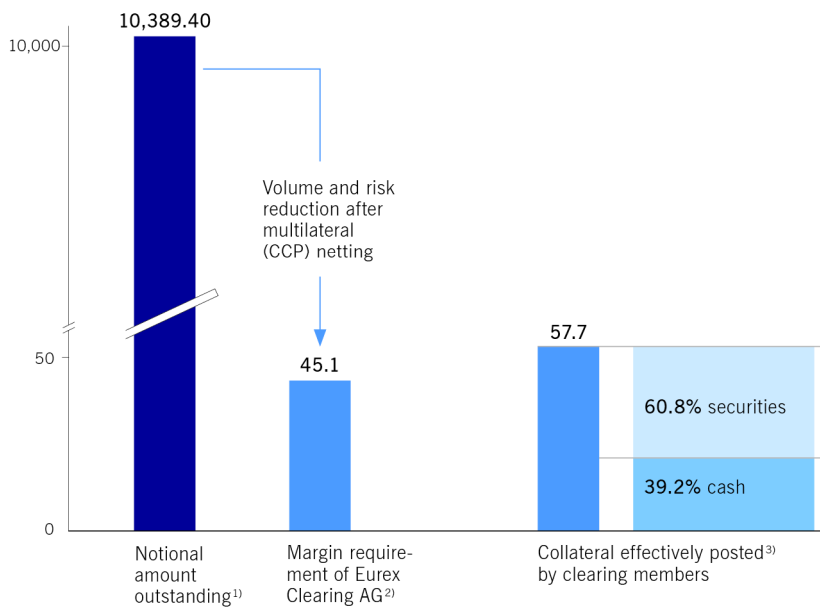
As central counterparty (CCP), Eurex Clearing AG fulfils its responsibility of promoting sustainable global economic growth and stable financial markets. Furthermore, as a clearing house it is an independent risk manager and ensures a neutral valuation of its member's risk positions. It also protects members in the event of a market participant defaulting, thus minimising risks and enhancing both the efficiency of trading and the stability of the financial markets. The bundling of default risk also permits high netting effects, which in turn facilitate sustainable cost savings for the entire market.

The outcome of the UK's Brexit referendum on 23 June 2016 has caused significant uncertainty for the entire European financial services sector. A key issue in this context is the clearing of over-the-counter (OTC) interest rate derivatives. With some €312 trillion (82 per cent), they account for the largest share of outstanding OTC volumes, while being the main driver behind the strong increase registered since 2016 [source: BIS, Semiannual OTC Derivatives Statistics, June 2019; the indication provided by the

Bank for International Settlements of approx. €461 trillion ([www.bis.org](http://www.bis.org) > Statistics > Derivatives > OTC derivatives statistics) was adjusted by eliminating the dual counting of interdealer volumes (source: [www.clarusft.com](http://www.clarusft.com)); €/US\$ exchange rate as at 30 June 2019: 1.1380, Deutsche Bundesbank]. The EU and the United Kingdom are currently negotiating the terms for Britain's exit from the EU. A controversial discussion is ongoing concerning future additions to clearing houses outside the EU-27, creating significant uncertainty amongst market participants. Eurex Clearing AG has come up with a solution designed to make the (potentially required) shift of euro clearing into the EU-27 as straightforward as possible for all market participants: the Eurex Clearing Partnership Programme. Through this initiative, Eurex Clearing AG is not only offering the market an attractive alternative for clearing interest rate derivatives outside of London and within the EU-27 but also anticipating potential market turbulence and taking early action to counteract it.

### Risk mitigation via netting and collateralisation

€ billion, as at 31 December 2019



<sup>1)</sup> **Notional amount outstanding**  
As at 31 December 2019, transactions cleared by Eurex Clearing amounted to € 10,389.40 billion notional outstanding.

<sup>2)</sup> **Margin requirement**  
Risks arising out of open positions are quantified. Eurex Clearing requires its clearing members to post collateral (margin) to cover these risks.

<sup>3)</sup> **Collateral**  
Clearing members can provide securities and cash as collateral. They may post more collateral than required by Eurex Clearing.

## Non-financial key indicators: social matters

		2019	2018
<b>Transparency</b>			
Proportion of companies reporting in accordance with maximum transparency standards <sup>1)</sup>	%	92	91
<b>Security</b>			
Availability of cash market trading system <sup>2)</sup>	%	100	99.912
Availability of derivatives market trading system <sup>2)</sup>	%	99.996	99.963
Average monthly cleared volumes across all products <sup>3)</sup>	€ trillion	24.0	23.5

1) Ratio of the market capitalisation of companies listed in the Prime Standard for shares to the market capitalisation of all companies listed on the Frankfurter Wertpapierbörse (FWB®, the Frankfurt Stock Exchange)

2) System availability ranks amongst the most important non-financial performance indicators (as defined in DRS 20 and section 289 (3) in conjunction with section 289 (1) sentence 3 of the HGB) for which a forecast is made

3) Average monthly clearing volume, including exchange-traded and OTC derivatives, as well as securities and repo transactions. Clearing volumes are subject to double counting

Deutsche Börse Group pays wages, salaries and taxes. Its commercial activity therefore contributes to private and public income – this contribution is made transparent in the value-added statement. For details, please refer to the [“Value added: breakdown of corporate performance”](#) section.

## Product matters

### Customer satisfaction

Deutsche Börse Group is executing a Group-wide growth strategy with which it aims to strengthen its agility, ambition, effectiveness and clear customer focus. In improving its organisation, the Group aims to better address changing client needs and gradually tap unutilised potential by means of a Group-wide approach to marketing, sales, innovation and product development.

In 2019, surveys across the EEX, Eurex, 360T and Clearstream began to be standardized; they include common questions and use a standardised “Net Promoter Score” methodology. In this context, businesses ask their clients about their readiness to recommend the service provider with the aim of notifying senior management and staff of the results shortly after the close of the survey. For 2020 there is also the ambition to report the results from as many areas as possible that have carried out a unified survey.

One example of Deutsche Börse Group’s customer focus is Clearstream’s annual client services survey. This survey aims to identify customer needs and prioritise and address enhancement requests to further improve products and services. The results of this survey are taken up by the Clearstream Management Committee, which includes senior management, where concrete actions are taken to address customer needs. The Clearstream senior management is provided with an overview of the items (customers’ needs/complaints) raised in the survey.

### Sustainable index products

There is an increasing demand for considering sustainability indicators in the investment process. Qontigo’s index provider STOXX is part of Deutsche Börse Group, and calculates and distributes more than 12,000 indices, a growing number of which are designed after sustainability aspects. STOXX’s offering of sustainability indices is diversified and includes environmental, social and governance- (ESG), climate change- and carbon emissions-related products. Indices are built based on internal research and the evaluation of market demand.



For all indices, the ultimate goal is to provide solutions to investors who consider sustainability a key element of their investment strategy. STOXX® and iSTOXX® indices focus on indicators that can be assessed quantitatively and are compiled by research providers specialised in the field. Within this approach, STOXX aims to select companies that are ranked better than their peers according to selected indicators and tilt the allocation towards those companies.

All data and service providers appointed by STOXX are subject to regular monitoring as required by the regulations of the International Organization of Securities Commissions (IOSCO) and the European Securities and Markets Authority (ESMA). STOXX indices are entirely rule-based. Consequently, there is neither a committee involved nor are customers consulted in the process of reviewing the index composition.

Having launched several index families focused on different aspects of sustainability and by continuing researching applications of sustainable portfolio allocations, STOXX aims to provide its clients with transparent, objective and rules-based solutions. The current index offering ensures that STOXX's products are securely established in the market and that STOXX can offer a timely response to the next developments in sustainability.

STOXX, as an index provider, also has the duty to represent the economic reality of the environment in which financial actors operate. In order to prepare for and help facilitate a shift in investment culture, STOXX develops and maintains a broad range of sustainability indices in response to investors' current as well as anticipated demand. The broad range of solutions may also aim at mitigating business risk should investors decide to reallocate more significant parts of their investments to sustainability-oriented solutions, which may be driven, in part, by investor-specific or external regulations.

As asset owners are steadily stepping up their fiduciary role and are implementing environmental, social and governance (ESG) investment strategies, STOXX is addressing this development by offering two approaches for ESG-compliant versions of STOXX flagship benchmarks:

- STOXX ESG-X indices are ESG-screened versions of flagship STOXX global, regional, country, size and blue-chip benchmarks. They incorporate standard norm- and product-based exclusions that aim to limit market and reputational risks while keeping a low tracking error and a similar risk-return profile to the respective benchmark. STOXX specifically excludes companies that Sustainalytics considers to be non-compliant with the UN Global Compact Principles, are involved in controversial weapons, are tobacco producers (0 per cent revenue threshold) and that either derive revenues from thermal coal extraction or exploration or have power generation capacity that utilises thermal coal (>25 per cent revenue threshold).
- The EURO STOXX 50® ESG index is the ESG-integrated version of the key eurozone benchmark that combines exclusionary screens (as described above) and ESG integration criteria.

The EURO STOXX 50® ESG index and STOXX's suite of ESG-X indices are suitable for underlying mandates, passive funds, ETFs, structured products and listed derivatives with the ambition to increase liquidity and lower the cost of trading.

## Overview of STOXX ESG, Climate Change and Carbon-Emission Index Offerings:

- STOXX ESG Benchmark indices
- STOXX ESG-X Benchmark indices
- STOXX Sustainability indices
- STOXX Global ESG Leaders and ESG Specialized Leaders indices
- STOXX Climate indices
- STOXX Low Carbon indices
- ESG Impact indices

In addition to the above-mentioned STOXX indices, the ÖkoDAX® index focuses on German companies active in the renewable energy business and DAXglobal Alternative Energy expands the DAXglobal index family by adding a growth indicator for the alternative energies sector.

### iSTOXX ESG offering

Under the umbrella of the iSTOXX brand, STOXX also offers a broad range of customised ESG-related indices that cater to specific client requirements. These indices offer specific strategies within the broader STOXX universe of responsible investing indices that track companies that are pioneering or making the most headway in the transition to a low-carbon economy and a fairer and better world from the perspective of ESG principles.

Visit the STOXX website [www.stoxx.com](http://www.stoxx.com) for a complete overview of all STOXX and iSTOXX indices.

---

### Non-financial key indicators: sustainable index products

		31 Dec 2019	31 Dec 2018
ESG criteria			
Assets under management in ETFs based on ESG indices from STOXX <sup>1)</sup>	€m	274.3	91.9
Total assets under management in ETFs based on indices from STOXX	€bn	76.3	68.2
Transparency			
Number of sustainable index concepts		224	131
Number of calculated indices		12,554	11,547

1) Based on the ETFs issued in 2016: FlexShares STOXX® Global ESG Impact index and FlexShares STOXX® US ESG Impact index and based on ETFs issued in 2019: EURO iSTOXX ESG-X & Ex Nuclear Power Multi Factor, EURO STOXX ESG-X & Ex Nuclear Power Minimum Variance Unconstrained, EURO STOXX 50 ESG und STOXX Europe 600 ESG-X

### Eurex ESG derivatives offering

Eurex took over a pioneering role by introducing an ESG product suite based on European benchmarks in February 2019. The three futures on the highly liquid European STOXX benchmarks covering ESG Exclusions, Low Carbon and Climate Impact support market participants to manage sustainability-driven challenges. In October the first exchange-traded ESG options on a European benchmark was added to the product range. At the same time the offering was further complemented by STOXX Select products with futures and options that capture the performance of European companies with high dividend payments and low volatility which are selected from the STOXX ESG Global Leaders index.

Products available for trading on Eurex:

- EURO STOXX 50® Low Carbon Index Futures
- STOXX® Europe 600 ESG-X Index Futures and Options
- STOXX® Europe Climate Impact Ex Global Compact Controversial Weapons & Tobacco Index Futures
- STOXX® Europe ESG Leaders Select 30 Index Futures and Options

Ten months after their launch in February 2019, STOXX Europe 600 ESG-X Index Futures, which are by far the most popular contracts, have reached over half a million traded contracts with ca. 50 per cent of the flow coming from end clients and asset owners. ESG is one of the major trends and the product interest is in line with Eurex expectations.

Further information is available on [www.eurexchange.com](http://www.eurexchange.com) -> [products](#) -> [ESG derivatives](#)

#### Energy and energy-related markets

Deutsche Börse Group holds a majority shareholding in European Energy Exchange AG (EEX), Leipzig, Germany. The product and service offerings of EEX and its subsidiaries focus on energy and energy-related markets (e.g. power, gas, emission allowances). By providing liquid, secure and transparent markets, EEX group plays an important role in improving the efficient functioning of these markets that are directly linked to questions of climate change. This includes the continuous development of new products and services, providing market solutions to support the long-term transition of Germany's and Europe's energy system towards a higher share of carbon-free, renewable energy sources.

EEX is constantly developing new support within the framework of the German "Energiewende" and wider EU climate and energy policy, which includes the long-term 2030 and 2050 climate and energy policy targets. In addition to power markets, EEX operates a regulated market for emissions allowances. EEX also hosts the central auction platform for the EU Emissions Trading System, organising regular auctions on behalf of 27 EU member states, including 25 countries that form an EU-wide auction platform to be coordinated by the European Commission, Germany and Poland. This system could be expanded to include the heating and transportation sectors.

Furthermore, EEX is developing new hedging instruments to address the effects of increasing power generation from renewables. In the ongoing transition to an energy system with a higher share of renewables, EEX is taking an active role by introducing new products to support this process. An example for the latter has been the extension of maturities in the electricity derivatives market, which allows for electricity production and procurement to be hedged for up to ten years: companies developing renewable energy, and their business partners, can hedge against price volatility and counterparty credit risks over the long term. The extension of maturities is a way of financing the expansion of renewable energy without providing explicit sponsorship. Such long-term maturities and hedging opportunities provided by EEX are already extensively used in Spain.

EEX Group further promotes the integration and marketing of renewables through its role as a provider of registries for so-called guarantees of origin, which are used by electricity distributors to prove the origin of the energy they supply. These guarantees of origin are rising in importance on the market for so-called green gases, too. In February 2019, EEX Group further expanded this business by acquiring Grexel, the leading European provider of guarantees of origin registries. Powernext SE, part of EEX Group, has operated a register for French guarantees of origin since 2013 and has been commissioned by the French government with the organisation of auctions.

## Comparison with the forecast for 2019

With regard to the development expected of its non-financial performance indicators for 2019, the Group succeeded in increasing the level of systems availability compared to the previous year: in the cash market, trading system availability was at 100 per cent (2018: 99.912 per cent). The availability of the T7 system for the derivatives market reached 99.996 per cent (2018: 99.963 per cent). Against this backdrop, the company expects to maintain the availability of the different trading systems for the cash and derivatives market at the very high level seen in previous years throughout the forecast period.

In its endeavours to raise the share of women holding executive positions, as early as in 2010, the Executive Board had adopted a voluntary commitment to increase the share of women holding middle and upper management positions to 20 per cent by 2020, and of women holding lower management positions to 30 per cent during the same period. The Group maintains this ambition, and has extended the scope of its voluntary commitment, over and above legal requirements. Firstly, the target figures determined in this context relate to Deutsche Börse Group worldwide. Secondly, the definition of management levels/positions was extended to also include heads of teams, for example. On a global level, as at 31 December 2019, Deutsche Börse Group achieved a quota of 15 per cent for the upper and middle management levels (2018: 14 per cent) and 27 per cent for lower management positions (2018: 29 per cent). For Germany, the quotas were 16 per cent (2018: 14 per cent) and 22 per cent (2018: 26 per cent), respectively.

## Risk Report

Deutsche Börse Group includes the following entities which are regulated as credit institutions: Clearstream Banking S.A. and Clearstream Banking AG (hereinafter referred to as "Clearstream", including Clearstream Holding AG), as well as Eurex Clearing AG. Furthermore, Eurex Clearing AG and European Commodity Clearing AG are authorised as central counterparties (CCPs) and are subject to the requirements of the European Market Infrastructure Regulation (EMIR). In addition, other Group companies hold different licences to provide regulated activities in the financial services sector. As such, these entities are subject to comprehensive statutory requirements, inter alia on risk management (for further information on the regulated entities, please refer to [note 15 to the consolidated financial statements](#)). Over and above the statutory requirements, including the EU directives (CRD IV and MiFID II) and their implementation into national law, other regulations worth mentioning include primarily EU regulations (CRR and EMIR), the national requirements of the Minimum Requirements for Risk Management (MaRisk) issued by the Federal Financial Supervisory Authority (Bundesanstalt für Finanzdienstleistungsaufsicht, BaFin), and circular 12/552 issued by the Financial Supervisory Authority of Luxembourg (Commission de Surveillance du Secteur Financier, CSSF). In this context, significant parts of the risk management are defined in the scope of the so-called second pillar of the Basel III regime for a number of the Group's companies. Moreover, national regulations implementing the EU Banking Recovery and Resolution Directive (BRRD) apply to Clearstream and Eurex Clearing AG regarding the establishment of recovery plans. Deutsche Börse Group follows international standards in its risk management and applies these also without or beyond such statutory requirements.

The highest regulatory standards within the Group are applicable to Eurex Clearing AG and Clearstream, given their regulation as credit institutions. Considering this and their economic importance, this risk report focuses on these subsidiaries in particular.

### Risk strategy and risk management

Deutsche Börse Group's risk strategy is aligned with its business model and company strategy. The Group provides the infrastructure for reliable and secure capital markets, assists constructively in their regulation and plays a leading role in all of the areas in which it does business. Deutsche Börse Group's risk strategy is based on three core principles:

1. Risk limitation – protecting the company against liquidation and ensuring its continuing operation  
"Capital exhaustion should not occur more than once in 5,000 years and an operating loss must not be generated more than once every hundred years." This means that one goal is to ensure a minimum probability of 99.98 per cent that the total capital will not be lost within the next twelve months. Another objective is to guarantee for a probability of 99.0 per cent or more that Deutsche Börse will at least break even, expressed in terms of its EBITDA. In other words, this principle establishes how much risk the Group must be able to withstand while also determining its risk appetite.

2. Support for growth in the various business segments

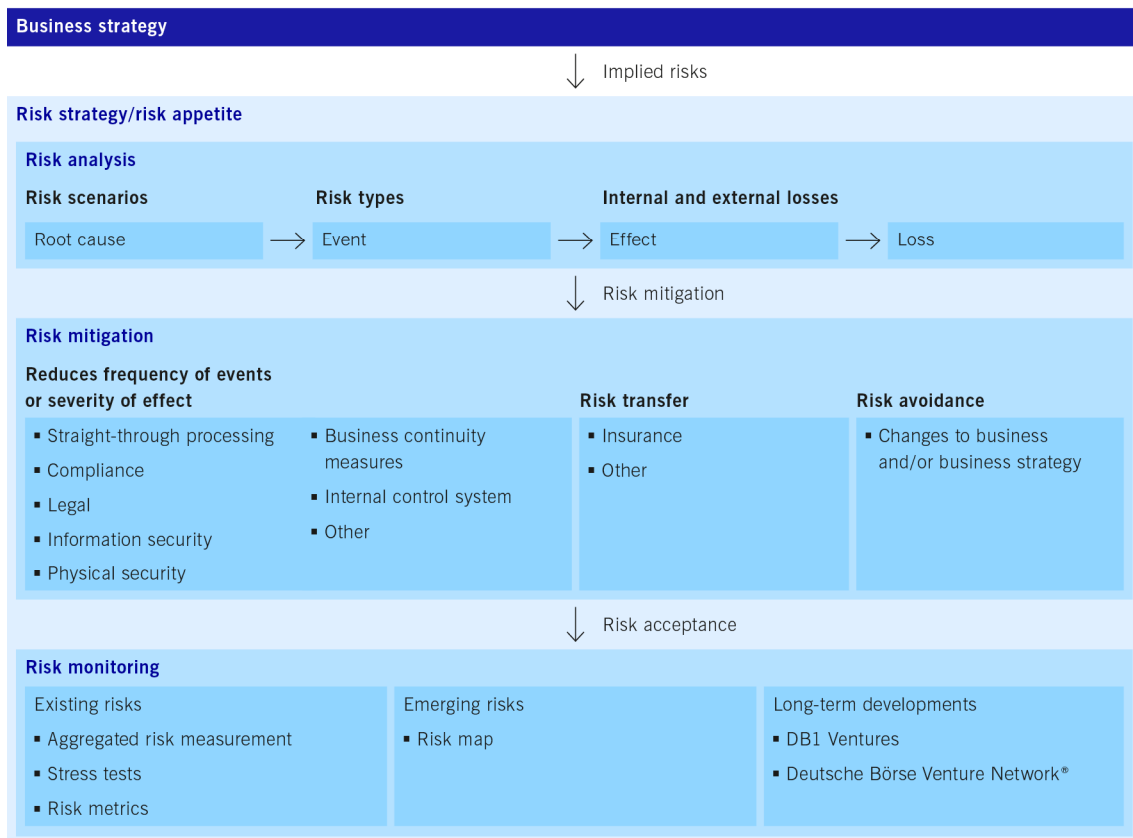
"Risk management supports the business units in developing their business". With this principle, the Group promotes its growth strategy. As such, risks are identified, and clearly communicated. This principle includes risk from organic growth, M&A activities and the use of transformational technology. The aim is to make well-founded strategic decisions within the boundaries of the defined risk appetite.

### 3. Appropriate risk/return ratio

“The return on equity should exceed the cost of equity.” Deutsche Börse Group has set itself the goal of ensuring that risk and return should be reasonably balanced, both for specific business areas in general and for individual regions, products and customers.

Internal risk management is based on the Group-wide detection and management of risk, which is focused on its risk appetite, see the chart [“Interlocking business strategy and risk strategy”](#). Deutsche Börse AG’s Executive Board has overall responsibility, and defines the framework for risk management throughout the Group. Under these Group-wide risk management requirements, each business segment and each regulated company is responsible for managing its own risk.

#### Interlocking business strategy and risk strategy



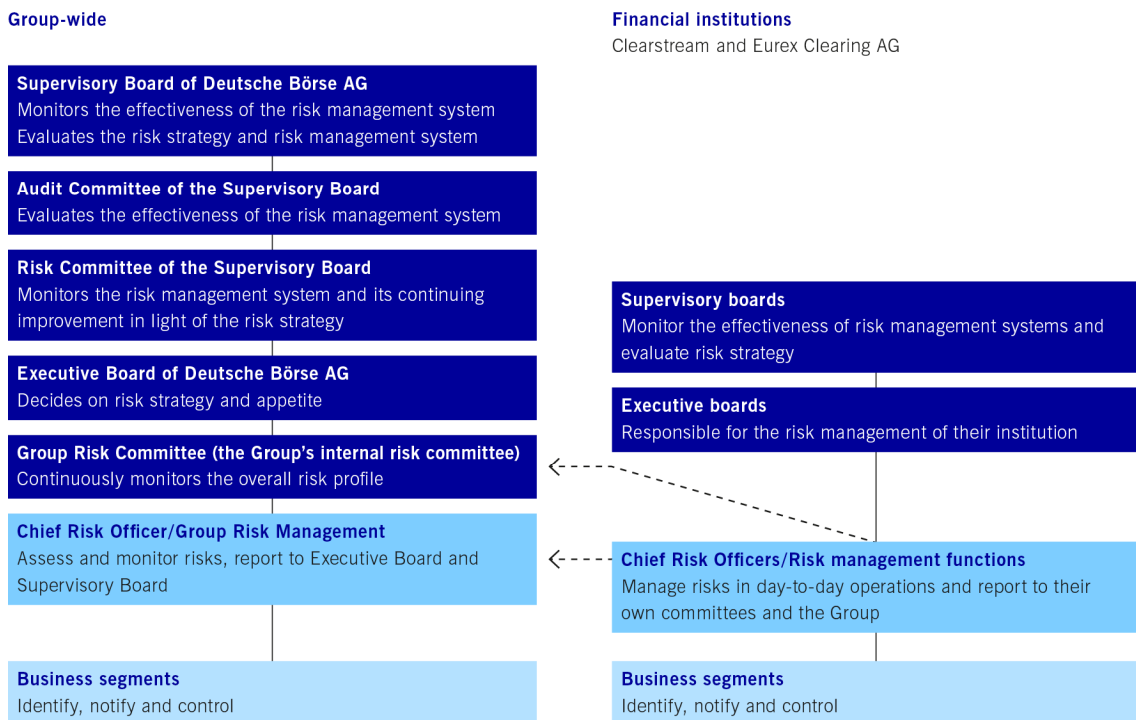
#### Implementation in the Group’s organisational structure and workflow

The risk strategy applies to the entire Deutsche Börse Group. Risk management functions, processes and responsibilities are binding for all Group employees and organisational units. To ensure that all employees are risk-aware, risk management is firmly anchored in the Group’s organisational structure and workflows. The Executive Board is responsible for risk management overall, whereas within the individual companies it is the responsibility of the management. The boards and committees given below receive regular information on risk situation.

Supervisory Board of Deutsche Börse AG assesses and monitors the effectiveness of the risk management system and its continuing development. The Supervisory Board has delegated the regular evaluation of the appropriateness and the effectiveness of the risk management system to the Audit Committee. In addition, the Risk Committee examines the risk strategy and risk appetite on an annual basis.

Deutsche Börse AG's Executive Board determines the Group-wide risk strategy and risk appetite and allocates the latter to the company's individual business segments and business units, respectively. It ensures that the Group's risk appetite is and remains compatible with its short- and long-term strategy, business and capital planning, risk-bearing capacity and remuneration systems. The Executive Board of Deutsche Börse AG also determines what parameters are used to assess risks, how risk capital is allocated and what procedures apply. It ensures that the requirements for the risk strategy and risk appetite are met.

### Risk management – organisational structure and reporting lines



The Group Risk Committee (GRC) reviews the risk position of the Group at least on a quarterly basis and involves the Executive Board in all decisive questions. The GRC is an internal Group committee, chaired by the Chief Financial Officer.

Group Risk Management (GRM), headed by the CRO, prepares the proposals for the corresponding risk strategy, risk appetite, the approaches and methods for monitoring risk, capital allocation and procedures. GRM continuously analyses and evaluates risks and produces quantitative and qualitative reports. These are submitted six times a year to the GRC, once a month to the Executive Board, once a quarter to the Risk Committee of the Supervisory Board and twice a year to the Supervisory Board. Likewise, the CRO reports to the Audit Committee on the appropriateness and effectiveness of the risk

management system on an annual basis. This system ensures that the responsible bodies can regularly check whether the defined risk limits are being adhered to consistently. In addition, GRM recommends risk management measures.

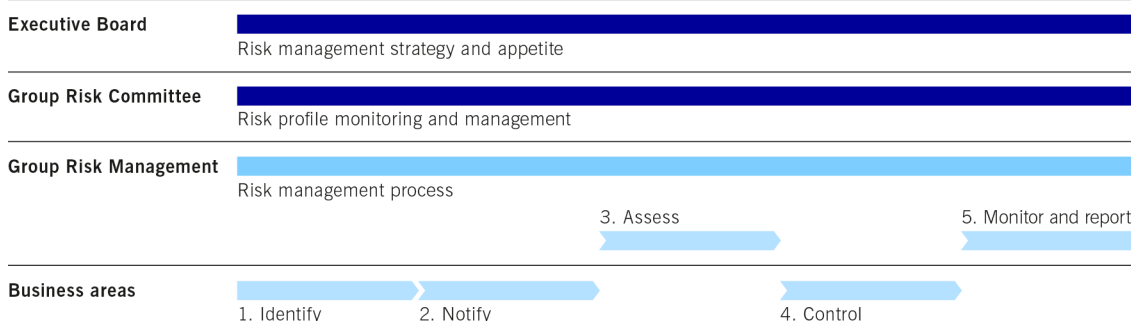
The Group's regulated subsidiaries act in the same way, always ensuring that they meet the requirements of the Group. In particular, they adhere to the risk appetite framework allocated to them by Deutsche Börse Group. The relevant supervisory boards and their committees are involved in the process, as are the executive boards and the corresponding risk management functions. Clearstream and Eurex Clearing AG implement customised versions of this risk strategy, using parameters and reporting formats that are compatible with the overarching Group-wide structure. In general, the management of the respective subsidiary bears the responsibility for its risk management and risk appetite; appropriateness and the effectiveness is evaluated by the respective supervisory board.

#### Centrally coordinated risk management – a five-stage process

Risk management is implemented in a five-stage process. The objective is to identify all potential losses in good time, to record them centrally and to evaluate them in quantitative terms as far as possible; if necessary, management measures must then be recommended and their implementation monitored (see the [“The five-stage risk management system” chart](#)): The first stage identifies the risks and the possible causes of losses or operational hitches. In the second stage, the business areas regularly – or immediately, in urgent cases – report to GRM the risks that they have identified and quantified. In the third stage, GRM assesses the risk exposure, while in the fourth stage, the business areas manage the risks by avoiding, mitigating or transferring them, or by actively accepting them. The fifth and final stage involves, for example, monitoring different risk metrics and, where necessary, informing the responsible Executive Board members and committees of significant risks, their assessment and possible emergency measures. In addition to its regular monthly and quarterly reports, GRM compiles ad hoc reports for members of the executive and supervisory boards. The risk management functions at Clearstream and Eurex Clearing AG submit reports to the respective executive boards and supervisory boards. As an independent unit, Internal Audit reviews the risk controlling functions.

#### The five-stage risk management system

##### Responsibility





## Approaches and methods for risk monitoring

Deutsche Börse Group uses quantitative and qualitative approaches and methods for risk monitoring, with the objective of providing as complete a picture as possible of its risk situation at all times. To this end, the Group continuously reviews internal events with regard to their risk properties, whilst also considering regional as well as global developments. The Group is thus able to recognise and analyse existing risks; at the same time, it is able to swiftly and adequately respond to emerging risks, as well as to changes in the market or in the business environment.

### Existing risks

Deutsche Börse Group employs a range of tools to evaluate and monitor operational, financial and business risk on a continuous basis, applying the liquidation principle and the going-concern principle, to quantify and aggregate risks. The value at risk (VaR) model is the main tool used for quantification. The purpose of the VaR model is to determine the amount of capital – given a confidence interval defined ex ante – required to cover potential losses incurred within twelve months. Moreover, so-called stress tests are carried out in order to simulate extreme, yet plausible, events and their impact upon the Group's risk-bearing capacity. Another approach to risk monitoring, which serves as an early warning system for quantified and non-quantifiable in-house risks, is complementary risk metrics. These risk metrics are based on IT and security risks, potential losses, credit, liquidity and business risks.

#### 1. Liquidation principle: what risk can the capital cover?

The required economic capital (REC) is calculated in accordance with the liquidation principle. The first part of Principle 1 of its risk strategy specifies that Deutsche Börse Group should not exhaust its risk-bearing capacity in more than 0.02 per cent of all years. For Clearstream and Eurex Clearing AG, REC calculated in this manner also complies with the requirements of the second pillar of Basel III. Deutsche Börse Group determines its risk-bearing capacity on the basis of its reported equity in accordance with International Financial Reporting Standards (IFRSs). Clearstream and Eurex Clearing AG determine their risk-bearing capacity on the basis of their regulatory capital (for details, see [note 15 to the consolidated financial statements](#)).

For management purposes, GRM regularly determines the ratio of the REC to the risk-bearing capacity. This indicator is known as the utilisation of risk-bearing capacity and it answers a key risk management question: how much risk can the Group afford and what risk is it currently exposed to? The ratio of REC to risk-bearing capacity remained within the stipulated maximum risk throughout the reporting period. If this were not the case, the Group would in a worst-case scenario exhaust its entire risk-bearing capacity and would have to be liquidated ("gone concern").

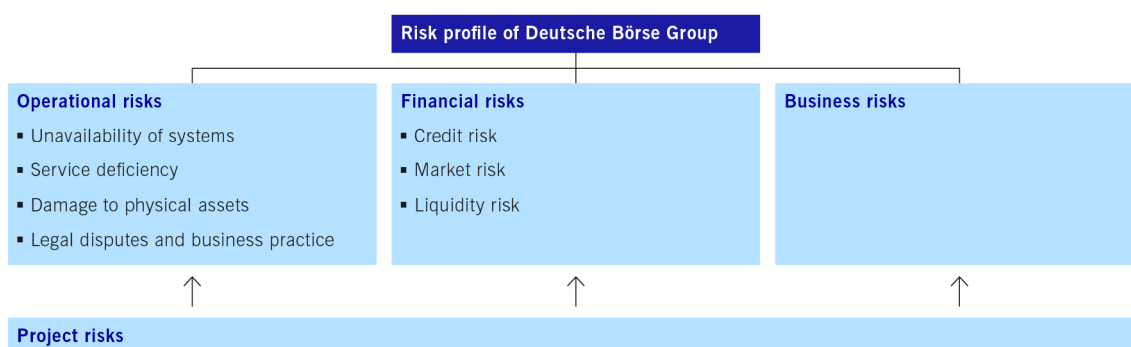
#### 2. Going-concern principle: what risks can be absorbed by earnings?

Deutsche Börse Group employs the going-concern principle that assumes an orderly continuation of the Group in the event of a crisis, and uses earnings at risk ("EaR") as an indicator. This indicator corresponds to the second part of Principle 1 of the Group's risk strategy, i.e. that an operating loss equal to the earnings before interest, tax, depreciation and amortisation (EBITDA) may occur no more than once in a hundred years. In other words, there should be a probability of 99.0 per cent or more that Deutsche Börse should at least break even (profit for the period expressed in terms of EBITDA). Under the going-concern principle, EaR determined in this way is compared with the Group's risk appetite – which is, in turn, measured in terms of projected EBITDA.

### 3. Regulatory capital requirements

Clearstream and Eurex Clearing AG must calculate their capital requirements for various risk types (see the ["Deutsche Börse Group's risk profile"](#) chart) in line with the Pillar I requirements under Basel III. In addition, Eurex Clearing AG must fulfil EMIR capital requirements while Clearstream Banking AG has to comply with CSDR capital requirements as authorisation as CSD was granted by BaFin in January 2020. Clearstream Banking S.A. is currently applying for authorisation according to CSDR. Clearstream and Eurex Clearing AG use a standardised approach for analysing and evaluating credit and market risk.

#### Deutsche Börse Group's risk profile



The two institutions have adopted different approaches regarding operational risk: Clearstream has used the considerably more complex advanced measurement approach (AMA) for this in all business units since 2008. This means that it meets the regulatory capital requirements for operational risk set out in the EU's Capital Requirements Regulation (CRR). The model is also employed for REC calculations and was fundamentally revised and improved during 2016. According to the method – which has been approved and is regularly audited by BaFin – the required capital is allocated to the regulated entities. In contrast, Eurex Clearing AG employs the basic indicator approach in order to calculate regulatory capital requirements (for details, see [note 15 to the consolidated financial statements](#)).

### 4. Stress tests

Stress tests are being carried out in order to simulate extreme (yet plausible) events for all material types of risk. Using and calculating both hypothetical as well as historical scenarios, this stress test simulates the occurrence of extreme losses, or an accumulation of large losses, within a single year. Similarly, inverse stress tests are also carried out, which analyse which loss scenarios would exceed the risk-bearing capacity.

### 5. Risk metrics

Risk metrics are used to quantify the exposure to the most important internal risks against set limits. They are complementary to the VaR approach and serve to monitor other factors as well as non-quantifiable risks. Any breach of these limits serves as an early warning signal, which is reported to the Executive Board on a monthly basis. Furthermore, any such breach immediately triggers the requisite risk mitigation processes.

## Emerging risks

With regard to risk management, Deutsche Börse Group pursues a sustainable, long-term strategy by also evaluating risks beyond a twelve-month horizon. For this purpose, the Group has developed so-called risk maps tailored specifically for expected or upcoming regulatory requirements and IT and information security risks. In addition, other operational, business and financial risks are also assessed beyond a twelve-month period. Risk maps classify risks by their probability of occurring and by their financial impact, should they materialise. A review process of Environment Social Governance (ESG) aspects is also carried out as part of the Group Risk Committee.

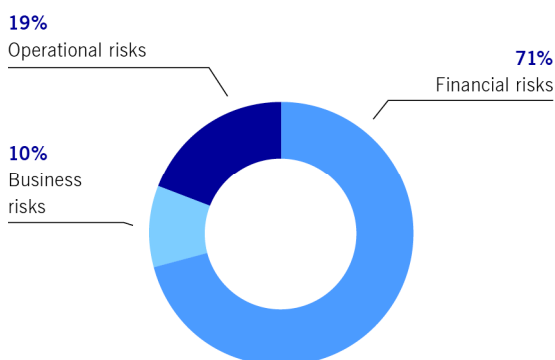
## Risk description

The following section describes the types of risk that Deutsche Börse Group generally has to manage and presents the risks it actually faces. It also explains the measures that Deutsche Börse Group uses to attempt to prevent loss events, and to minimise their financial effects.

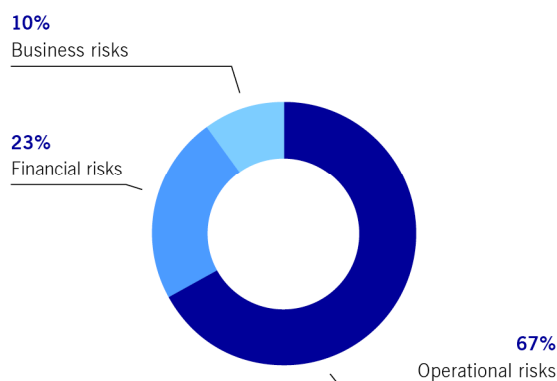
## Risk profile

The risk profile of Deutsche Börse Group differs fundamentally from those of other financial services providers. Deutsche Börse Group differentiates between the three standard types of risk: operational risk, financial risk and business risk. Project risk also exists but the Group does not specifically quantify these as their impact is already reflected in the three risk types. The majority of risks are of an operational nature (see the charts below: “Required economic capital for German universal banks by risk type” and “Required economic capital for Deutsche Börse Group by risk type”).

Required economic capital for German universal banks by risk type



Required economic capital for Deutsche Börse Group by risk type



## Operational risk greater than financial and business risk

Utilisation of risk-bearing capacity in the liquidation principle and of risk appetite in the going-concern principle are used as internal management indicators throughout Deutsche Börse Group (see the [“Approaches and methods for risk monitoring”](#) section for an explanation of these terms). In addition to the financial and operational risk already mentioned, business risk is also identified and assessed. This relates in particular to potential threats to revenue such as price pressure or loss in market share as well as cost risks. Under the liquidation principle, financial risk amounts to only approximately 23 per cent of Deutsche Börse Group’s total risk, while business risk represents 10 per cent of the total. This makes the third typical risk type all the more important for Deutsche Börse Group: at 67 per cent, operational

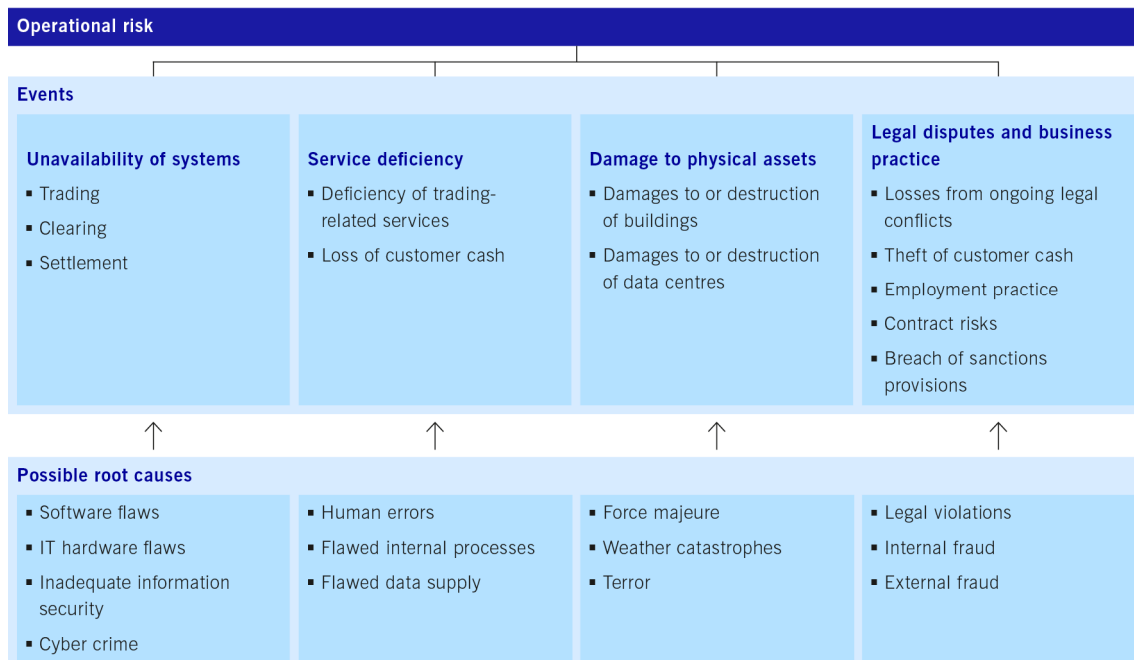
risk accounts for two-thirds of the REC. Information on the additional capital requirements of other subsidiaries is provided in [note 15 to the consolidated financial statements](#).

The three risk types applicable to Deutsche Börse Group are described in detail below, in the order of their importance.

### Operational risk

For Deutsche Börse Group, operational risks comprise the unavailability of systems, service deficiency, damage to physical assets as well as legal disputes and business practice (see the [chart below: "Operational risk at Deutsche Börse Group"](#)). Human resources risks are quantified just like other operational risks. The share of operational risk of the REC was 67 per cent as at 31 December 2019.

### Operational risk at Deutsche Börse Group



### Unavailability of systems

Operational resources such as the Xetra® and T7® trading systems are essential for the services offered by Deutsche Börse Group. They should never fail in order to ensure that market participants can trade securities or derivatives at any time and without delay. The Group therefore calculates the availability of these systems as an important risk indicator. In line with the Group's risk strategy, the business areas are responsible for monitoring the indicators.

The longer the downtime for one of these systems, the larger the potential loss. An outage could be caused by software or hardware issues, or in unlikely cases, the availability of the systems could be affected by acts of cyber crime or terrorist attack. In the past, only limited failures have occurred both with Xetra and with T7 and its predecessor system. In practice, there has never been a system failure lasting longer than one day. Deutsche Börse Group has taken a number of measures to further minimise the risk of failure lasting an entire day or longer, for example the redundancy of the network infrastructure.

In general, availability risk represents the largest operational risk for Deutsche Börse Group and is therefore subject to regular tests that simulate not only what happens when its own systems fail but also when suppliers fail to deliver.

#### Service deficiency

Risks can also arise if a service provided to a customer is inadequate and this leads to complaints or legal disputes. One example would be errors in the settlement of securities transactions due to defective products and processes or mistakes in manual entries. A second example are handling errors in the collateral liquidation process in the event of the default of a large clearing customer. Such errors have not occurred to date in the rare case of a failure. The related processes are tested at least annually.

Other sources of error may be attributable to suppliers or to product defects; mistakes that may lead to the loss of client assets or mistakes in accounting processes must also be considered. The Group registers all complaints and formal objections as a key indicator of deficient processing risk.

#### Damage to physical assets

Natural disasters, accidents, terrorism or sabotage are other operational risks that could, for example, cause the destruction of, or severe damage to, a data centre or office building. Business Continuity Management and Physical Security measures aim at averting significant financial damage (see the [chart Business Continuity Management](#)).

#### Legal disputes and business practice

Losses can also result from ongoing legal proceedings. These can occur if Deutsche Börse Group breaches laws or other requirements, enters into inadequate contractual agreements or fails to monitor and observe case law to a sufficient degree. Legal risk also includes losses due to fraud and labour law issues. This could entail, for example, losses resulting from insufficient anti-money laundering controls or breaches of competition law or of banking secrecy. Such operational risks can also arise if government sanctions are not observed, e.g. in case of conflicting laws of different jurisdictions, or in the event of breaches of other governmental or overarching regulations.

In its [2012 corporate report](#), Deutsche Börse Group informed about the class action Peterson vs Clearstream Banking S.A., the first Peterson proceeding, targeting turnover of certain customer positions held in Clearstream Banking S.A.'s securities omnibus account with its US depository bank, Citibank NA, and asserting direct claims against Clearstream Banking S.A. for damages of US\$250.0 million. The matter was settled between Clearstream Banking S.A. and the plaintiffs and the direct claims against Clearstream Banking S.A. were abandoned.

In July 2013, the US court ordered turnover of the customer positions to the plaintiffs, ruling that these were owned by Bank Markazi, the Iranian central bank. Bank Markazi appealed, and the decision was affirmed on 9 July 2014 by the Second Circuit Court of Appeals and later by the US Supreme Court on 20 April 2016. Once distribution of the funds to the plaintiffs is complete, a related case, Heiser vs Clearstream Banking S.A., also seeking turnover of the same assets, should also be dismissed.

On 30 December 2013, a number of US plaintiffs from the first Peterson case, as well as other plaintiffs, filed a complaint targeting restitution of certain assets that Clearstream Banking S.A. holds as a custodian in Luxembourg. In 2014, the defendants in this action, including Clearstream Banking S.A., moved to dismiss the case. On 19 February 2015, the US court issued a decision granting the defendants' motions and dismissing the lawsuit. The plaintiffs lodged an appeal against this ruling at the competent appeals court (Second Circuit Court of Appeals), which on 21 November 2017 confirmed large portions of the decision of the trial court. The appellate court referred the case back to the court of first instance regarding another aspect, asking the court to assess whether the assets held in Luxembourg are subject to execution in the USA. Clearstream Banking S.A. filed a petition against this ruling with the US Supreme Court on 8 May 2018. The US Supreme Court decided on 13 January 2020 to refer the second Peterson case back to the appeals court for consideration in the light of new US legislation.

On 14 October 2016, a number of US plaintiffs filed a complaint naming Clearstream Banking S.A. and other entities as defendants. The complaint in this proceeding, Havlish vs Clearstream Banking S.A. is based on similar assets and allegations as in the Peterson proceedings. The complaint seeks turnover of certain assets that Clearstream Banking S.A. holds as a custodian in Luxembourg. The complaint also asserts direct claims against Clearstream Banking S.A. and other defendants and purports to seek damages of up to approximately US\$6.6 billion plus punitive damages and interest. The proceedings have been suspended due to the pending complaint to the US Supreme Court in the second Peterson case.

On 2 April 2014, Clearstream Banking S.A. was informed that the United States Attorney for the Southern District of New York has opened a grand jury investigation against Clearstream Banking S.A. due to Clearstream Banking S.A.'s conduct with respect to Iran and other countries subject to US sanction laws. Clearstream Banking S.A. is cooperating with the US attorney.

In the context of the ongoing disputes regarding assets of Bank Markazi, Clearstream Banking S.A. was served with a complaint of Bank Markazi on 17 January 2018 naming Banca UBAE S.p.A. and Clearstream Banking S.A. as defendants. The complaint filed before the Luxembourg courts primarily seeks the restitution of assets of Bank Markazi which the complaint alleges are held on accounts of Banca UBAE S.p.A. and Bank Markazi with Clearstream Banking S.A. totalling approximately US\$4.9 billion plus interest. Alternatively, Bank Markazi seeks damages to the same amount. The assets sought include assets to the amount of approximately US\$1.9 billion that were turned over to US plaintiffs pursuant to a 2013 binding and enforceable US court order in a proceeding to which Bank Markazi was a party. The claim also addresses customer assets of approximately US\$2 billion, which include assets that are held at Clearstream Banking S.A. and which are currently subject to US and Luxembourg litigation brought by US plaintiffs, and further addresses assets that were previously transferred out of Clearstream Banking S.A. to Banca UBAE S.p.A.

On 15 June 2018, Banca UBAE S.p.A. filed a complaint against Clearstream Banking S.A. in front of the Luxembourg courts. This complaint is a recourse action related to the complaint filed by Bank Markazi against Clearstream Banking S.A. and Banca UBAE S.p.A and asks that Banca UBAE S.p.A. be indemnified and held harmless by Clearstream Banking S.A. in the event that Banca UBAE S.p.A. loses the legal dispute brought by Bank Markazi and is ordered by the court to pay damages to Bank Markazi.

On 26 December 2018, two US plaintiffs filed a complaint naming Clearstream Banking S.A. and other entities as defendants. The plaintiffs hold claims against Iran and Iranian authorities and persons amounting to approximately US\$28.8 million. The complaint in this case (Levin vs. Clearstream Banking S.A.) is based on similar assets and allegations as in the second Peterson case, and the Havlish case. The complaint seeks turnover of certain assets that Clearstream Banking S.A. holds as a custodian in Luxembourg. The complaint also asserts direct claims against Clearstream Banking S.A. and other defendants and purports to seek damages of up to approximately US\$28.8 million, plus punitive damages and interest. The proceedings have been suspended due to the pending second Peterson case.

On 4 December 2019, several US plaintiffs from the aforementioned Heiser vs Clearstream Banking S.A. case filed a new complaint naming Clearstream Banking S.A. and other entities as defendants. The plaintiffs hold claims against Iran and Iranian authorities and persons in excess of US\$500.0 million, and are seeking turnover of Iranian assets. Also these proceedings will be suspended with a view to the further development of the second Peterson case.

Starting on 16 July 2010, the insolvency administrators of Fairfield Sentry Ltd. and Fairfield Sigma Ltd., two funds domiciled on the British Virgin Islands, filed complaints in the US Bankruptcy Court for the Southern District of New York, asserting claims against more than 300 financial institutions for restitution of amounts paid to investors in the funds for redemption of units prior to December 2008. On 14 January 2011, the funds' insolvency administrators filed a court claim against Clearstream Banking S.A. for the restitution of US\$13.5 million in payments made for redemption of fund units, which the funds made to investors via the settlement system of Clearstream Banking S.A. The proceedings, which were suspended for several years, is ongoing.

Legal disputes have arisen regarding a bond issued by MBB Clean Energy AG (MBB), which is held in custody by Clearstream Banking AG. MBB issued the first tranche of the bond in April 2013 and the second tranche of the bond in December 2013. The global certificates for the two tranches were delivered to Clearstream Banking AG by the paying agent of the issuer. The legal disputes relate to the non-payment of the bond and the purported lack of validity of the bond. Clearstream Banking AG's role in the context of the purported lack of validity of the MBB bond is primarily to safekeep the global certificate as national central securities depository. Insolvency proceedings have meanwhile been opened in respect of the issuer, MBB.

A buyer of an MBB Clean Energy AG (MBB) bond, which is held in custody by Clearstream Banking AG and was listed on the Frankfurt Stock Exchange, filed a lawsuit at a Dutch court concerning claims for damages against Clearstream Banking AG, Deutsche Börse AG and other partners.

In September 2017, Clearstream Banking AG and Clearstream Banking S.A. were made aware that the Public Prosecutor's Office in Cologne had initiated proceedings for tax evasion against an employee of Clearstream Banking AG for his alleged involvement in the settlement of transactions of market participants over the dividend date (cum/ex transactions). On 22 January 2018, the Public Prosecutor's Office in Cologne addressed to Clearstream Banking AG a notification of hearing Clearstream Banking AG and Clearstream Banking S.A. as potential secondary participants (Nebenbeteiligte). Starting on 27 August 2019, together with other supporting authorities, the Public Prosecutor's Office in Cologne conducted searches of the offices of Clearstream Banking AG, Clearstream Banking S.A., as well as other



Deutsche Börse Group companies and sites. In the course of these measures, Deutsche Börse Group entities were made aware that the Public Prosecutor's Office in Cologne has extended the group of accused persons to include further current and former employees of Deutsche Börse Group companies. Due to the early stage of the proceedings, it is not possible to predict timing, scope or consequences of a potential decision. The affected companies are cooperating with the competent authorities. The concerned entities do not expect that they could be successfully held liable.

In November 2018, a customer of a trading participant of the Frankfurt Stock Exchange filed a lawsuit at the District Court (Landgericht) of Frankfurt/Main against Deutsche Börse AG. The plaintiff is claiming damages of approximately €2.6 million from Deutsche Börse AG. The alleged damages are said to have arisen (1) on 7 July 2016, from Deutsche Börse AG's publication of an inaccurate ex-dividend date relating to a financial instrument via the Xetra system and (2) due to the fact that a client of the plaintiff relied on this inaccurate information to conclude transactions.

On 19 December 2018, the German Federal Financial Supervisory Authority (Bundesanstalt für Finanzdienstleistungsaufsicht, BaFin) sent Deutsche Börse AG a formal hearing notification in a penalty proceeding, which refers to the allegation of a supposed lack of self-liberation or, alternatively, an allegedly omitted ad hoc announcement. Specifically, in the search for a successor for Carsten Kengeter, Deutsche Börse AG had omitted to qualify as a price-relevant intermediate step the fact that a few days before the appointment of Theodor Weimer in November 2017, two suitable and interested CEO candidates had been identified and a decision about the appointment was planned. Even after consulting with external experts, Deutsche Börse AG believes this allegation is unfounded.

Despite the ongoing proceedings described before, the Executive Board is not aware of any material changes to the Group's risk situation.

#### Measures to mitigate operational risk

Deutsche Börse Group takes specific measures to reduce its operational risk. Among them are emergency and contingency plans, insurance policies, measures concerning information security and the physical safety of employees and buildings as well compliance rules and procedures.

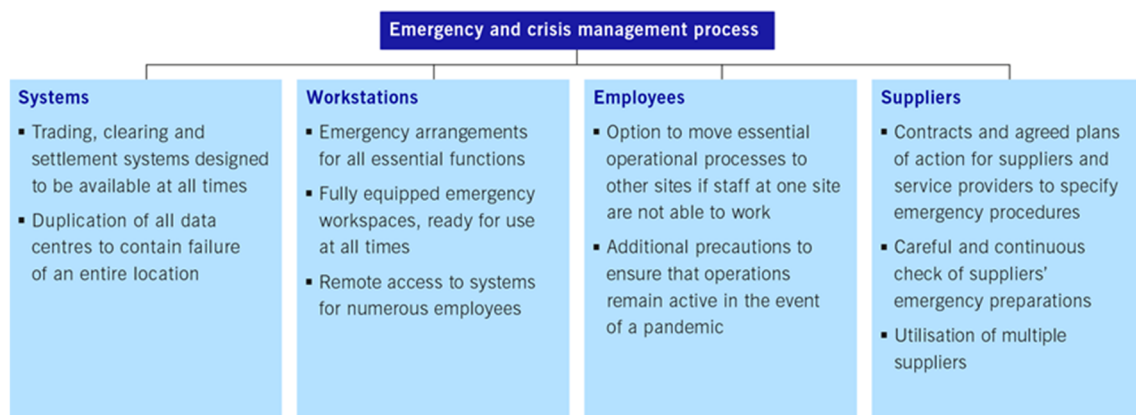
#### Emergency and contingency plans

It is essential for Deutsche Börse Group to provide its products and services as reliably as possible. The Group has to maintain its business operations and safeguard against emergencies, failures and crises. If its core processes and resources are not available, this represents not only a substantial risk for the entire Group but also even a potential systemic risk for the financial markets in general. As a result, Deutsche Börse Group has set up a system of emergency and crisis plans covering the entire Group (business continuity management, BCM). This covers all processes designed to ensure continuity of operations in the event of a crisis and significantly reduces unavailability risk. Measures include precautions relating to all important resources (systems, workstations, employees, suppliers), including the redundant design of essential IT systems and the technical infrastructure, as well as emergency measures designed to mitigate the unavailability of employees or workspaces in core functions at all important locations. This includes unavailability due to pandemic based events, like the recent "Coronavirus" outbreak. This situation is being handled in accordance to the Deutsche Börse Group Incident and Crisis Management Process. Precautionary measures are centrally coordinated to ensure continuity of Deutsche Börse Group's critical operations as well as employees' health and safety. Back-up locations are subject to regular tests and remote access is also available. Examples of such precautions are listed in the [☒ "Business continuity management" chart](#).



---

## Business continuity management



### Preparations for emergencies and crises

The Group has introduced and tested a management process for emergencies and crises that enables it to respond quickly and in a coordinated manner. This is intended to minimise the effects on business processes and on the market and to enable a quick return to regular operations. All business segments have appointed emergency managers to act as central contacts and take responsibility during emergencies and crises. The emergency managers inform the Executive Board or raise the alarm with them in the case of severe incidents. In the event of a crisis, the Executive Board member responsible for the affected business area acts as the crisis manager or delegates this role. The emergency and contingency plans are tested regularly by realistically simulating critical situations. Such tests are generally carried out unannounced. The test results are evaluated based on the following criteria:

- Functionally effective: the measures must be technically successful.
- Executable: the employees must be familiar with the emergency procedure and be able to execute it.
- Timely: emergency measures must ensure that operations restart within the intended time period, namely the recovery time objective (RTO).

### Information Security

Attacks on information technology systems and their data – especially due to cyber crime – represent operational risks for Deutsche Börse Group, which is continuously confronted with rising threats in this respect, as are other financial services providers and the entire sector. Unauthorised access, change and loss of information, as well as non-availability of information and services, may all arise as a result of these attacks (such as phishing, DDoS and ransomware attacks). It is worth noting that there was no successful attack on Deutsche Börse Group's core systems in 2019.

In order to maintain the Group's integrity as a transaction services provider, and in order to mitigate and control the risks, Deutsche Börse is continuously implementing measures to increase information security. The aim is to proactively boost the robustness of procedures, applications and technologies against cyber crime in such a way that they are adjusted to the threatening situation and regulatory requirements at an early stage. The foundation for this is formed by a set of core processes together with specific control measures based on the established international information security standards ISO/IEC 27000.

The information security function checks that the information security and information security risk management requirements are adhered to; it also monitors the systemic integration of (and adherence to) security standards, within the scope of product and application development.

The Group operates a situation centre (Computer Emergency Response Team, CERT), which detects and assesses threats from cyber crime at an early stage, and coordinates risk mitigation measures in cooperation with the business units.

Group Information Security operates an Group-wide programme designed to raise staff awareness for the responsible handling of information, and to improve staff conduct in this aspect. All in all, Deutsche Börse Group's security approach includes overall measures in accordance with ISO 27000 covering both the development phase and the operational phase.

Furthermore, Deutsche Börse Group has been a full member of national associations (Cyber Security Sharing and Analytics, CSSA), trade associations (World Federation of Exchanges) and international networks (Financial Services Information Sharing and Analysis Center, FS-ISAC) which contribute significantly towards a forward-looking stance vis-à-vis cyber threats, and the development of strategies to fend off such threats.

#### Physical security

Deutsche Börse Group places great importance on physical security issues due to the constantly changing global security risks and threats. Corporate Security has developed an integral security concept to protect the company, its employees and values from internal and external attacks and threats – in a proactive as well as reactive manner. Analysts are continuously assessing the security situation at Deutsche Börse Group's locations and are in close contact with authorities (Federal Criminal Police Office – BKA, Federal Office for the Protection of the Constitution – BfV, etc.), security services providers, and security departments of other companies. Multi-level security processes and controls ensure physical safety at the Group's locations. Physical access to buildings and values is monitored permanently; it is based on the access principle of 'least privilege' (need-to-have basis). Penetration tests, inter alia, are carried out on a regular basis to verify the efficiency and effectiveness (as well as the quality) of the security processes at the locations.

In an increasingly competitive global market environment, access to know-how and confidential company information bears the potential of a major financial advantage to outsiders or competitors. Deutsche Börse applies state-of-the-art technology to prevent its knowledge from being obtained illegally, e.g. through wiretapping.

Furthermore, Corporate Security is tasked with providing support to employees while they are travelling or on foreign assignment, i.e. protecting them from risks in the areas of crime, civil unrest, terrorism and natural disasters. In this context, a worldwide travel security programme was established which guarantees a risk assessment before, during and after travelling, supported by a travel-tracking system and a central 24/7 emergency telephone number.

#### Insurance policies

Operational risks that Deutsche Börse Group cannot or does not wish to bear itself are transferred to insurance companies, if this is possible at a reasonable price. The insurance policies are checked individually and are approved by Deutsche Börse AG's Chief Financial Officer.

## Compliance

Compliance at Deutsche Börse is responsible for supporting the individual legal entities in ensuring that regulatory requirements are observed and generally protecting the Group against financial and non-financial risks, such as reputational damage in the markets it serves, in cooperation with supervisory authorities, or the general public. Whilst endowed with appropriate autonomy from the business units, Group Compliance nonetheless fulfils its mandate as an enabler of business, to allow the former to focus on the clients and markets the Group wishes to serve. Compliance has to take the necessary steps to systematically and pre-emptively mitigate compliance risks. This requires the identification of compliance risks, and a risk-based assessment of appropriate measures.

Deutsche Börse Group pursues an enterprise-wide approach to its Compliance function, ensuring that applicable laws and regulatory requirements are followed with respect to individual legal entities. Under applicable law, the Compliance functions of the individual legal entities report to the respective member of the Executive Board responsible for Compliance. Moreover, the Compliance functions and their staff report directly to the Group Chief Compliance Officer via a uniform reporting structure. Wherever possible, Deutsche Börse Group's compliance follows a synergistic and holistic approach by applying Group-wide compliance regulations and standards, with the objective of ensuring that the related concepts are spread throughout the Group.

Deutsche Börse Group's Compliance function has been consistently strengthened over recent years. During the course of 2019, the Group significantly increased its Compliance personnel in major offices around the world, with the objective of coordinating and enhancing the strength of the individual legal entities' Compliance function as well as the alignment between Compliance officers, control functions of individual business segments and other control functions as required by supervisory bodies. This close alignment strengthened the second line of defence. In order to be able to act pre-emptively and to mitigate the compliance risks referred to above, the Group continues to invest into the acquisition and further development of IT tools. This provides a validated data inventory, which enables the Group to consistently and appropriately respond to compliance risks. In 2019, the focus continued on standardising and digitalising compliance processes with an impact on relevant business units. Deutsche Börse Group also improved its due diligence procedures with respect to clients, market participants, counterparties and business partners.

Group Compliance continuously promotes regulatory-compliant and ethically impeccable conduct, as well as integrity amongst all Deutsche Börse Group employees. For instance, staff have been sensitised to (and enhanced emphasis been placed on) compliance-relevant aspects throughout the respective business units and within Deutsche Börse Group's regulatorily required control functions. The code of business conduct encompasses the aforementioned activities and sets a holistic basis for a regulatory environment for Deutsche Börse Group.

Over the last few years, Deutsche Börse Group has devoted itself to the development of market-leading compliance standards. The Group promotes and reflects these standards across its entire product-related value creation chain, particularly from the perspective of a leading global provider of financial markets infrastructure. Deutsche Börse AG decided to align its compliance management system with the globally recognised ISO 19600 standard. This was a crucial next step, designed to exploit Group-wide synergies and to move beyond the scope of regulatory requirements. These efforts will be continued in 2020. A special focus lies on compliance monitoring and controls, on the basis of a Group-wide procedural approach.

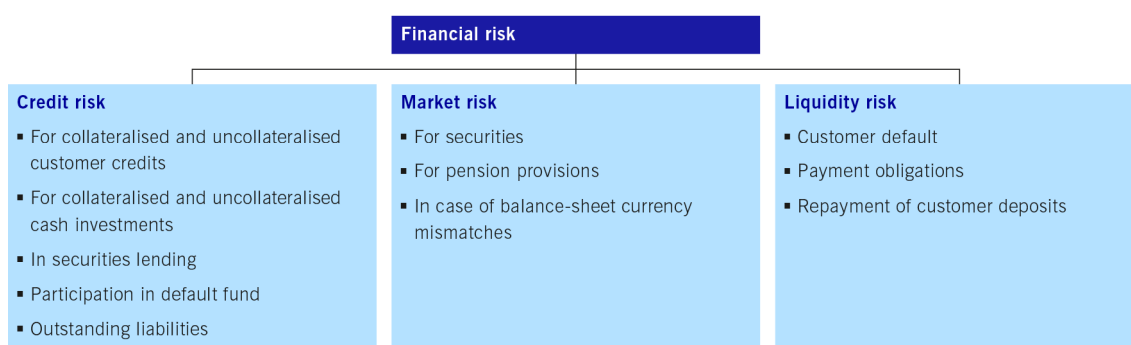
## Financial risk

Deutsche Börse Group classifies its financial risk into credit, market and liquidity risk (see the “Financial risk at Deutsche Börse Group” chart below). At Group level, these risks account for about 23 per cent of the REC (this information only includes credit and market risk; liquidity risk is not quantified as part of the REC; see [note 23 to the consolidated financial statements](#)). They primarily apply to the Group’s credit institutions. As a result, the following explanation focuses on Clearstream and Eurex Clearing AG.

The assets and liabilities relating to the financial instruments held by central counterparties balance each other out.

---

### Financial risk at Deutsche Börse Group



#### Credit risk

Credit risk and counterparty default risks describe the danger that a counterparty might not meet its contractual obligations, or not meet them in full. Measurement criteria include the degree to which the credit line has been utilised, the collateral deposited and concentration risk. Although Clearstream and Eurex Clearing AG often have short-term exposures against counterparties totalling several billion euros overall, these are generally secured by collateral deposited by the market participants. Moreover, the Group regularly evaluates the reliability of its emergency plans at Clearstream and Eurex Clearing AG in the event of client defaults, and the resulting credit risk.

Furthermore, Clearstream Banking S.A. is exposed to credit risk arising from its strategic securities lending transactions (ASLplus). Only selected banks act as borrowers. All borrowing transactions are fully collateralised and only selected bonds with a high credit rating are permitted for use as collateral.

Clearstream grants loans to its clients in order to make the securities settlement more efficient. This type of credit business is, however, fundamentally different from the classic lending business. On the one hand, credit is extended solely for less than a day, and it is generally collateralised and granted to clients with high creditworthiness on the other. Furthermore, the credit lines granted can be revoked at any time.

Under its terms and conditions, Eurex Clearing AG only enters into transactions with its clearing members. Clearing mainly relates to defined securities, rights and derivatives that are traded on specific stock exchanges. Eurex Clearing AG also offers this service for over-the-counter (OTC) products such as interest rate swaps and forward rate agreements. As a central counterparty, it steps in between

transactional counterparties. Through offsetting mutual claims and requiring clearing members to post collateral, Eurex Clearing AG mitigates the credit risk exposure.

To date, no default by a client with a secured credit line has resulted in financial losses. Deutsche Börse Group therefore views the probability that one of its customers could become insolvent, and that this could lead to losses for the Group as low.

Credit risk can also arise from cash investments. The Treasury department is responsible here, and has Group-wide authority. Treasury largely makes collateralised investments of funds belonging to Group companies as well as Clearstream and Eurex Clearing AG customers. To date, a counterparty default has not led to a loss for the Group.

Clearstream and Eurex Clearing AG run stress tests to analyse scenarios, such as the default of their largest counterparty. The figures determined in this way are compared with the limits defined as part of the companies' risk-bearing capacity. In addition, the impact of several clearing counterparties defaulting at the same time is calculated for Eurex Clearing AG. A special stress test examines Clearstream Banking S.A.'s credit risk exposure from the settlement procedure with Euroclear. Moreover, inverse stress tests are run to determine the number of counterparties that would have to default for losses to exceed the risk cover amount. Risks identified in the course of stress tests carried out during the 2019 financial year were analysed further, and corresponding risk-reduction measures initiated, e.g. reducing credit risks through diversification.

Deutsche Börse Group generally tracks a variety of risk indicators in addition to its risk measures (REC, EaR and the credit risk stress tests performed). These include the extent to which individual clients utilise their credit lines, and credit concentrations.

#### Reducing credit risk

Clearstream and Eurex Clearing AG assess the creditworthiness of potential customers or counterparties to an investment before entering into a business relationship with them. The companies do this in the same way: they determine the size of individual customers' credit lines based on requirements and regular creditworthiness checks, which they supplement with ad hoc analyses if necessary. They define haircuts collateral depending on the risk involved, and continually review their appropriateness.

Given the size and volatility of its clients' liabilities, Eurex Clearing AG has developed a leading-edge collateral management system, which is described in detail in the following section.

#### Safety for the participants and the clearing house

Each clearing member must prove that it has liable capital (or, in the case of funds, assets under management) equal to at least the amounts that Eurex Clearing AG has defined for the different markets. The amount of liable capital (or assets under management) for which evidence must be provided depends on the risk. To mitigate Eurex Clearing AG's risk that clearing members might default before settling open transactions, members are obliged to deposit collateral in the form of cash or securities (margins) on a daily basis and, if required, to meet additional intraday margin calls.

Eurex Clearing AG only permits securities with a high credit quality and liquidity to be used as collateral. Internal valuations and external ratings are used to determine the credit quality. On the basis of these consolidated ratings, only collateral that is classified at least as investment grade is permitted. The limits for bank bonds are raised to at least "A–" due to the potential wrong-way risks. The admission criteria are reviewed continually and market risk is covered by haircuts with a confidence level of at least 99.9 per cent. Hence, securities of issuers with lesser credit quality are subject to higher haircuts than those applied to securities with higher credit quality. Eligible collateral that no longer meets the high credit

rating requirements at a later point in time (e.g. due to a new consolidated rating) is excluded. Risk inputs are checked monthly and the safety margins are recalculated daily for each security. In addition, a minimum safety margin applies to all securities.

Margins are calculated separately for clearing member accounts and client accounts. Gains and losses resulting from intraday changes to the value of financial instruments are either settled in cash by the counterparties (variation margin) or deposited with Eurex Clearing AG as collateral by the seller due to the change in the equivalent value of the item (premium margin). In the case of bond, repo or equity transactions, the margin is collected from either the buyer or the seller (current liquidating margin), depending on how the transaction price performs compared to the current value of the financial instruments. The purpose of these margins is to offset gains and losses.

In addition, Eurex Clearing AG uses additional collateral to protect itself in the case of default by a clearing member against any risk that the value of the positions in the member's account will deteriorate in the period before the account is settled. This additional collateral is known as the additional margin. The target confidence level here is at least 99.0 per cent (with a minimum two-day holding period) for exchange-traded transactions, or 99.5 per cent (with a five-day holding period) for OTC transactions. Eurex Clearing AG checks daily whether the margins match the requested confidence level: initial margin is currently calculated using the legacy risk-based - margining method, and the new - Eurex Clearing - Prisma method, which is already available for all derivative contracts traded. The new method takes the clearing member's entire portfolio – as well as historical and stress scenarios – into account when calculating margin requirements. The objective is to cover market fluctuations for the entire liquidation period until the account is settled. At present, the risk-based - margining method is still used for cash market products and physical deliveries, as well as for securities lending and repo transactions.

In addition to the margins for current transactions, each clearing member contributes to a default fund, with the contributions based on its individual risk profile. This fund is jointly liable for the financial consequences of a default by a clearing member to the extent that this cannot be covered by the member's individual margin, and its own and Eurex Clearing AG's contributions to the default fund. Eurex Clearing AG uses daily stress tests to check whether its default fund is adequate enough to absorb a default of its two largest clearing members. This involves subjecting all current transactions and their collateral to market price fluctuations at a confidence level of at least 99.9 per cent. In order to be able to determine potential losses in excess of a clearing member's individual margins, the impact on the default fund of a potential default is simulated. Eurex Clearing AG has defined limits which, when exceeded, trigger an immediate adjustment to the size of the default fund if necessary. The following lines of defence are available in case a clearing member is unable to meet its obligations to Eurex Clearing AG due to a delay in performance or a default:

- First, Eurex Clearing AG may net the relevant clearing member's outstanding positions and transactions and/or close them – in terms of the risk involved – by entering into appropriate back-to-back transactions, or settle them in cash. Clients' segregation models are taken into account accordingly.
- Any potential shortfall that might be incurred in connection with such a closing or cash settlement, as well as the associated costs, would be covered in the first instance by the collateral provided by the clearing member concerned. As at 31 December 2019, collateral amounting to €57,697 million had been provided for the benefit of Eurex Clearing AG (after haircuts).
- After this, the relevant clearing member's contribution to the default fund would be used to cover the open amount. Contributions ranged from €1 million to €236.7 million as at 31 December 2019.
- Any remaining shortfall would initially be covered by a contribution to the default fund by Eurex Clearing AG. Eurex Clearing AG's contribution amounted to €200.0 million as at 31 December 2019.
- Only then would the other clearing members' contributions to the default fund be used proportionately. As at 31 December 2019, aggregate default fund contribution requirements for all clearing members of Eurex Clearing AG amounted to €3,630 million. After the contributions have been used in full, Eurex Clearing AG can request additional contributions from each clearing member, which can be at most twice as high as their original default fund contributions. In parallel to these additional contributions, Eurex Clearing AG provides additional funds of up to €300.0 million, provided via a Letter of Comfort from Deutsche Börse AG (see below). These additional funds will be used together with the additional clearing member contributions, on a pro-rata basis.
- Next, the portion of Eurex Clearing AG's equity which exceeds the minimum regulatory equity would be realised.
- Finally, the remaining minimum regulatory equity of Eurex Clearing AG would be drawn upon.
- Deutsche Börse AG has issued a letter of comfort in favour of Eurex Clearing AG. With this letter of comfort, Deutsche Börse AG commits to provide the funds to Eurex Clearing AG required to fulfil its duties – including the duty to provide additional funds of up to €300.0 million, as mentioned before. The maximum amount to be provided under the Letter of Comfort amounts to €600.0 million, including payments already made. Third parties are not entitled to any rights under the Letter of Comfort.

In the event of default by a clearing member, Eurex Clearing AG carries out a Default Management Process (DMP), with the objective of closing out all positions assumed as a result of the default. Within the scope of the DMP, any costs incurred in connection with such close-out are covered using collateral from Eurex Clearing's lines of defence. Essentially, within the DMP framework, products which share similar risk characteristics are assigned to liquidation groups that are liquidated using the same process. Within a liquidation group, Eurex Clearing AG will balance its position by transferring defaulted positions to other clearing members, either via an auction or by way of bilateral independent sales. Potential claims against Eurex Clearing AG, arising from the settlement of positions assumed from the defaulted clearing members, are covered by the collateral from the multiple lines of defence. Whenever necessary, these collateral items are disposed on in the market by way of bilateral independent sales, in order to cover the outstanding claims from the settlement of the open positions. The DMP will therefore not only contribute to the security and integrity of capital markets, but will also protect non-defaulted clearing members from any negative effects resulting from the default.

In the past, the DMP of Eurex Clearing AG has been used four times, involving the defaults of Gontard & MetallBank (2002), Lehman Brothers (2008), MF Global (2011), and Maple Bank (2016).



In all of the cases mentioned above, the funds pledged as collateral by the defaulted clearing member were sufficient to cover losses incurred upon closing out positions – in fact, a significant portion of resources was returned to the defaulted clearing member.

Deutsche Börse Group reduces its risk when investing funds belonging to Group companies and client funds by distributing investments across multiple counterparties, all with a high credit quality, by defining investment limits for each counterparty and by investing funds primarily in the short term and in collateralised form if possible. Investment limits are established for each counterparty on the basis of at least annual credit checks and using ad hoc analyses, as necessary. Since extending its licence as an investment and credit institution under the Kreditwesengesetz (German Banking Act), Eurex Clearing AG can also use the permanent facilities at Deutsche Bundesbank and the Swiss National Bank; it is thus in a position to manage the largest part of client funds in a central bank environment.

Investment losses on currencies for which Eurex Clearing AG has no access to the respective central banks will be borne, on a pro-rata basis, by Eurex Clearing AG and by those clearing members active in the currency where losses were incurred. The maximum amount which each clearing member will have to contribute in this manner is the total amount such clearing member has pledged with Eurex Clearing AG as cash collateral in this currency. The maximum amount to be borne by Eurex Clearing AG is €50 million.

#### Market risk

Market risk include risks of a detrimental development of interest rates, exchange rates or other market prices. Deutsche Börse Group measures these risks using Monte - Carlo simulations based on historical price data, as well as corresponding stress tests.

Clearstream and Eurex Clearing AG invest parts of their equity in securities with the highest credit quality. The majority of these securities have a variable interest rate, interest rate risk is low. The Group avoids open currency positions whenever possible. Furthermore, market risk could result from Deutsche Börse Group's ring-fenced pension plan assets (Contractual Trust Arrangement (CTA), Clearstream's pension fund in Luxembourg). The Group reduced its risk of extreme losses by deciding to invest a predominant proportion of the CTA on the basis of a value preservation mechanism.

#### Liquidity risk

Liquidity risk arises if a Deutsche Börse Group company is unable to meet its daily payment obligations or if it can only do so at a higher refinancing cost. Operational liquidity requirements are met primarily internally by retaining funds generated with a view towards maintaining sufficient liquidity in order to be able to meet all of the Group's payment obligations when due. An intra-Group cash pool is used to pool surplus cash from subsidiaries on a Deutsche Börse AG level, as far as regulatory and legal provisions allow. Liquid funds are invested in the short term in order to ensure that they are available. Short-term investments are also largely secured by liquid bonds from first-class issuers. Deutsche Börse AG has access to short-term external sources of financing, such as agreed credit lines with individual banks or consortia, and a commercial paper programme. In recent years, Deutsche Börse AG has leveraged its access to the capital markets to issue corporate bonds in order to meet its structural financing needs.

Since Clearstream's investment strategy aims to be able to repay customer deposits at all times, liquidity limits are set carefully. In addition, extensive sources of financing are available at all times, such as ongoing access to the liquidity facilities at Deutsche Bundesbank and Banque centrale du Luxembourg.



Due to its role as a central counterparty, Eurex Clearing AG has strict liquidity guidelines and its investment policy is correspondingly conservative. Regular analyses ensure the appropriateness of the liquidity guidelines. In addition, Eurex Clearing AG can use Deutsche Bundesbank's permanent facilities.

Deutsche Börse Group can also be exposed to liquidity risk in case of a customer default. If a clearing member of Eurex Clearing AG defaults, its member position is liquidated. If a Clearstream customer defaults, the – generally collateralised and intraday – credit line granted to increase settlement efficiency would be called, and the collateral provided by the client could then be liquidated. A decline in market liquidity, following a market disruption, would increase Deutsche Börse Group's liquidity risk exposure. By means of stress tests, Clearstream and Eurex Clearing AG calculate for each day of the month – and report on a monthly basis – the liquidity needs that would result if the two largest counterparties were to default, and maintain sufficient liquidity in order to cover the liquidity needs determined. Potential risks that are identified in the course of stress tests are analysed and corresponding risk-reduction measures initiated. During the 2019 reporting year, Eurex Clearing AG and Clearstream continuously held sufficient liquidity to fulfil both regulatory requirements as well as the liquidity needs determined through stress tests.

#### Business risk

Business risk reflects the fact that the Group depends on macroeconomic and geopolitical developments and is influenced by other external events, such as changes in the competitive environment or regulatory initiatives. It therefore expresses the risks associated with the Group's business environment and sector. It also includes business strategy risk, i.e. the impact of risks on the business strategy and possible adjustments to it. These business risks are represented as variance analyses of planned and actual EBITDA, and are monitored constantly by the divisions. They account for about 10 per cent of the Group's REC. Business risk may result in revenues lagging budget projections or in costs being higher.

Business risk includes the risk that competitors, such as the exchanges Euronext, Singapore Exchange (SGX), ICE Futures Europe and Mercado Español de Futuros Financieros (MEFF), as operators of derivatives markets, might increase their market shares on the European trading markets (both on- and off-exchange).

Additional business risk may arise from regulatory requirements, or from the geopolitical or economic environment – for example, in the event of an intra-Europe crisis affecting monetary union, the impact of negative interest rates or a tariff conflict, having adverse effects on trading activity.

The introduction of a binding carbon dioxide price also represents a potential business risk. Germany's federal government is currently revising its climate policy, with a price tag for carbon dioxide likely to be a key instrument. The integration of the financial sector in this respect – or expansion of the European Union Emissions Trading System (EU ETS) – is possible and would represent an additional cost factor for the Group. The EU index regulation, which is aimed at higher ESG transparency requirements, also represents a potential business risk for the Group. Such a regulation could limit the innovative power of the Group's ESG products, thus reducing the company's long-term success.

The orderly exit of the United Kingdom from the European Union (Brexit) on 31 January 2020 allows for a transition period up to the end of 2020, which may be extended once by up to two years. EU law shall apply in and for the UK during the transition period although the UK will have no co-determination right in the EU institutions. The UK will also remain a part of the EU single market and the EU customs union in this time. The EU and the UK are expected to negotiate a free trade agreement during the transition period. The risk of an unregulated Brexit from January 2021 onwards remains if an agreement cannot be reached within this timeframe. Brexit was subject to continuous analyses with regard to the risk for customers, products and business continuity.

Deutsche Börse Group launched three initiatives aimed at reducing these risks: (1) The Brexit readiness project, which is responsible for coordinating all of Deutsche Börse Group's divisions to retain their access to the markets, (2) the transition team, which will support UK customers through the Brexit process and any adjustments that need to be made, to continue to have access to Deutsche Börse Group and its divisions and (3) the Eurex Clearing partnership programme, which supports an EU-27 alternative for euro clearing. Deutsche Börse Group remains well prepared for Brexit. All divisions have submitted the necessary applications with the British authorities and the customers are well prepared for transferring their activities in full to a unit of the Group located inside EU-27.

The EU-based liquidity pool for Eurex Clearing AG's euro swaps is also growing substantially, so that euro clearing can continue to be offered competitively in Frankfurt, regardless of political developments.

The introduction of a financial transaction tax, which continues to be supported by some European states, might have a negative impact upon Deutsche Börse Group's business activities. Likewise, a sustained period of weak trading activity on the market following a significant downturn on the equity markets (whatever the reasons), for example, also represents a risk to the Group.

#### Overall assessment of the risk situation by the Executive Board

Deutsche Börse AG's Executive Board is responsible for risk management throughout the Group and regularly reviews the entire Group's risk situation. The Executive Board of Deutsche Börse AG confirms the effectiveness of the risk management system.

#### Summary

The risk profile of Deutsche Börse Group did not change significantly in the 2019 financial year. Deutsche Börse Group's risks were covered by sufficient risk-bearing capacity at all times, i.e. the allocated risk appetite limits were complied with.

As at 31 December 2019, the Group's REC amounted to €2,696 million, a 5 per cent increase year-on-year (31 December 2018: €2,573 million). REC was covered by sufficient aggregate risk-bearing capacity at all times during the 2019 financial year. EaR amounted to €1,103 million as at 31 December 2019, of which €750 million was attributable to operational risk, €152 million to financial risk, and €201 million to business risk.

#### Outlook

Deutsche Börse Group continually assesses its risk situation. Based on the calculated REC in stress tests and based on the risk management system, Deutsche Börse AG's Executive Board concludes that the available risk cover amount is sufficient. Furthermore, it cannot identify any risk that would endanger the Group's existence as a going concern.

The Group is determined to further strengthen and expand its Group-wide risk management and internal control system (ICS) in 2020 too, by means of, for example, methodological improvement in the ICS and closer integration of the control functions.

## Report on opportunities

### Organisation of opportunities management

Deutsche Börse Group's opportunities management aims to identify, evaluate and assess opportunities as early as possible and to take appropriate measures in order to transform opportunities into business success.

Deutsche Börse Group evaluates organic growth opportunities in the individual business areas both on an ongoing basis throughout the year and systematically at the Group level as part of its annual budget planning process. The process begins with a careful analysis of the market environment, which considers both what the customer wants, as well as market developments, competitors and regulatory changes. Ideas for growth initiatives are developed further using uniform, Group-wide templates and subjected to a profitability analysis. On this basis, the Executive Board of Deutsche Börse AG makes the final decision as to which initiatives are to be implemented.

### Organic growth opportunities

Deutsche Börse Group has a very broad portfolio of products and services with which it covers all areas of a market infrastructure provider's value creation chain. This makes the Group one of the most broadly based stock exchange organisations in the world. In order to maintain and expand this position the company is pursuing a growth strategy called Roadmap 2020. Among other things Deutsche Börse Group is focusing on organic growth opportunities in order to achieve its strategic goals. The Group makes a basic distinction between structural and cyclical opportunities: structural opportunities arise for example as a result of regulatory changes, new client requirements (such as the growing demand for exchange-traded solutions to over-the-counter (OTC) transactions) or from the trend whereby an increasing portion of assets are allocated in passive investment strategies (e.g. index funds). The company can actively exploit these opportunities. Cyclical opportunities on the other hand cannot be influenced directly by the Group and are driven by macroeconomic changes. In addition Deutsche Börse Group intends to seize long-term opportunities arising as a result of the technological transformation.

### Structural growth opportunities

When taking advantage of structural growth potential, Deutsche Börse Group focuses on product- and service-driven initiatives designed to satisfy new client needs as well as regulatory requirements. Moreover, the Group regularly examines whether it can better achieve growth in high-potential asset classes, products or services – organically or through external acquisitions and cooperation agreements. In this connection, the Group has defined the following five areas of business that focus beyond the organic options to external growth as well: commodities, foreign exchange trading, investment funds services, data and index business and fixed-income trading.

The Group expects to see its highest revenue growth in trading and clearing in the coming years, due in part to the clearing of OTC derivatives and further growth in the trading of energy and gas products. Foreign exchange trading via 360T is also expected to provide a contribution to net revenue growth. Post-trading will focus on the further development of investment fund business. The growth focus in pre-trading lies in expanding the index and analytics business. The business potential of the initiatives stated here are described in more detail below.

### Clearing of OTC derivatives

The liquidity problems experienced by major market participants during the financial crisis were triggered by the failure to settle bilateral OTC transactions that were mainly entered into on an unsecured basis. In light of this, the leading industrialised nations (G20) agreed to create an effective regulatory environment to make off-exchange derivatives transactions more transparent and more secure. Consequently, the European Union has created the European Market Infrastructure Regulation (EMIR). EMIR involves the obligation to clear standardised OTC derivative transactions using a central counterparty. Preparing for mandatory clearing, Eurex Clearing AG had developed set up a central counterparty to clear OTC derivatives transactions. With the Eurex Partnership Programme, launched in October 2017, Eurex Clearing has created an alternative for clearing interest rate swaps within the EU. The programme has been widely accepted: Hence, since 2018, the notional outstanding volume on Eurex Clearing has increased significantly.

### Trading and clearing of power and gas products on EEX

Leipzig-based European Energy Exchange AG (EEX) allows Deutsche Börse Group to offer a broad product range for trading and clearing of spot and derivatives contracts on power and gas as well as emission certificates. EEX has become the central market for energy in Continental Europe and its product range includes the markets Germany, France, the Netherlands, Belgium, Italy and Spain. It has also been active in the US market through its acquisition of Nodal Exchange in 2017. EEX's growth is mainly based on the growing importance of renewable energies for generating energy. Owing to the high degree of fragmentation, as well as the inefficiency of OTC markets, the demand for on-exchange trading and clearing solutions has also increased over recent years. EEX believes it is well positioned in this changing competitive environment to achieve structural growth and gain additional market share.

### Growth in foreign-exchange trading (360T)

With the full acquisition of 360T, Deutsche Börse AG successfully explored a new asset class – foreign-exchange trading. 360T® is a leading, globally active currency trading platform, whose broad customer base includes companies, buy-side customers and banks. By combining 360T's knowledge and experience in the foreign exchange market with Deutsche Börse Group's IT expertise, the Group will be able to tap the additional revenue potential. 360T has made progress with various measures for achieving synergies, including the launch of its FX futures and clearing services. Thanks to its leading position, 360T further benefits from a structural trend: even though, at present, the vast majority of daily foreign-exchange trading volumes is still executed off-exchange, demand for transparent, electronic multi-bank trading platforms such as 360T is rising.

#### Cross-border settlement of investment funds

Clients of Deutsche Börse Group can use Clearstream's settlement and custody services for their entire fund portfolio – covering traditional investment funds, exchange-traded funds (ETFs) as well as hedge funds. Given that supervisory authorities are also calling for more efficient settlement and custody solutions in order to guarantee maximum security for client assets under custody, the Group expects to acquire additional client portfolios in the future. The Group is also continuously expanding its range of products and services. Clearstream, for example, is extending its range of fund services to include management of distribution agreements, as well as data compilation through acquisitions. Extending the product and service range, Clearstream expects to generate additional net revenue by realising cross-selling synergies.

#### Expansion of the index and analytics business

Deutsche Börse Group's objective in its index business is to give the already established European index provider STOXX an even more global profile, in order to develop and market other indices worldwide (in addition to its DAX® and STOXX® index families). In addition, Deutsche Börse's index business will continue to take advantage of the structural trend towards passive investment products (ETFs). An increasing number of private clients and asset managers now follow this trend; not only are the costs lower, but many active investment strategies have been returning under-average performance. In order to support these trends more effectively, in 2019 Deutsche Börse AG acquired Axioma Inc., New York, USA, (Axioma), a leading provider of portfolio and risk management solutions. The combination created Contigo a fully integrated leading information provider for institutional investors, serving the growing market demand for products and analysis in this area.

#### Cyclical opportunities

In addition to its structural growth opportunities, Deutsche Börse Group has cyclical opportunities, for instance as a result of positive macroeconomic developments. Although the Group cannot influence these cyclical opportunities directly, they could lift Deutsche Börse Group's net revenue and net profit for the period attributable to Deutsche Börse AG shareholders significantly in the medium term:

- The volumes of interest rate derivatives traded on the Group's derivatives markets could rise if speculation on trends in long-term yields on German and other European government bonds grows, and if the spread between the various European government bonds continues to narrow.
- In the cash and derivatives market segments - Xetra (securities trading) and Eurex (financial derivatives) - positive economic development, a lasting increase in investor confidence in the capital markets leading to a renewed risk appetite among market participants and a sustained increase in stock market volatility could stimulate trading activity among market participants and boost trading volumes.

#### Technological opportunities

New developments such as cloud services, in the context of artificial intelligence (AI), big data, robotics, blockchain technology, combined with the potential for innovation offered by fintech companies, are driving change in the financial sector. This new wave of technology might help overcome barriers to market harmonisation, while creating additional efficiency and mitigating risks. This development is expected to last for the next ten years, with digitisation set to accelerate. The challenge for incumbent providers is in finding the right way to open up new business models and innovative technologies.

The Group has optimised its internal processes particularly with regard to cloud services. HR processes, purchasing and settlement of travel expenses, among others, are now processed in the cloud. This has led to a significant streamlining of processes, and also has a positive effect on the Group's costs. The Group is also working on transferring services and processes with clients to the cloud. For instance, the

introduction of new trading platforms and updating of existing infrastructure might be tested beforehand by clients, via the cloud. This would lead to significantly more agile processes within the Group, as new processes would be introduced at more frequent intervals, allowing the Group to respond more effectively to clients' requirements. In 2019, Deutsche Börse signed agreements with Microsoft and Google on the use of cloud services, positioning itself at the forefront of cloud use in the European financial services sector.

Blockchain technology constitutes another aspect of technological opportunities. It is considered a disruptive technology at times – but at present, the financial services sector is increasingly exploring its opportunities. Thanks to its decentralised nature, it facilitates direct interaction between participants, thus offering the potential for simplifying complex processes. Established market infrastructure providers such as Deutsche Börse Group, which covers the entire value creation chain from a single source, play an important role when it comes to tapping this potential – meeting existing industry standards at the same time. Besides legal and regulatory requirements, this also involves adhering to security standards, as well as limiting risks and ensuring cost efficiency.

## Report on expected developments

The report on expected developments describes Deutsche Börse Group's expected performance for the 2020 financial year. It contains statements and information on events in the future, and is based on the company's expectations and assumptions at the time of publication of this corporate report. In turn, these are subject to known and unknown opportunities, risks and uncertainties. Numerous factors, many of which are outside the company's control, influence the Group's success, its business strategy and its financial results. Should opportunities, risks or uncertainties materialise or should one of the assumptions made turn out to be incorrect, the Group's actual performance could deviate either positively or negatively from the expectations and assumptions contained in the forward-looking statements and information contained in this report on expected developments.

## Developments in the operating environment

### Macroeconomic environment

With global economic growth slowing further in 2019 as expected, Deutsche Börse Group generally anticipates a slight improvement in the general conditions for global growth in the forecast period. Reasons for this include the prospect of a resolution of the ongoing trade conflicts, mainly between China and the US, the easing of US interest rate policy since mid-2019, as well as the political situation in Europe, especially with regard to the reduced risk of a disorderly withdrawal of the United Kingdom from the European Union. However, at the time of the publication of this combined management report it becomes apparent, that the SARS-CoV-2 („Coronavirus“) virus outbreak in China at the end of 2019 will have significant negative implications for the development of the global economy, at least in the first months of 2020.

## Future development of results of operations

Given its diversified business model and multiple sources of revenue, Deutsche Börse Group believes it is very well positioned to further improve its results of operations in the medium and long term. This expectation is based on, among other things, the structural growth opportunities that the Group intends to exploit (for details, see the [Opportunities report](#)), as well as on additional contributions from mergers and acquisitions.

As in 2019, Deutsche Börse Group expects net revenue from structural growth opportunities to increase by at least 5 per cent in the forecast period. The Group is driving this growth through investment. In doing so, it aims to shift further market share from over-the-counter trading and clearing to the on-exchange segment and to further expand its positions in existing asset classes by introducing new products and functionalities. In contrast, the development of business divisions reliant on cyclical factors continues to depend mainly on the degree of speculation regarding future interest rate development in Europe, and the extent of equity market volatility, potentially resulting in both positive and negative effects on the Group's net revenue growth.

Within the scope of its growth strategy, Deutsche Börse Group pursues clearly defined principles for managing operating costs. Essentially, the Group achieves the necessary flexibility in managing operating costs through two different initiatives designed to enhance operating efficiency. Firstly, the Group has implemented a continuous process to improve operating efficiency. Secondly, the Group has already resolved a series of structural cost reduction measures in 2018, and has largely completed the implementation of the said measures in 2019.

The Group expects adjusted net profit for the period attributable to Deutsche Börse AG shareholders to increase to around €1.20 billion in the forecast period. The Group would then be fully in line with its medium-term growth targets of 10 to 15 per cent average per year for the adjusted net profit for the period from 2017 to 2020.

---

## Forecast for results of operations 2020

	Based on 2019 €m	Forecast for 2020
Net revenue from structural opportunities (excluding non-recurring effects)	2,936.0	>5% growth
Net profit for the period attributable to Deutsche Börse AG shareholders (excluding non-recurring effects)	1,105.5	€bn ~1.20



## Trends in non-financial performance indicators

Initiatives to promote the transparency and security of the markets will continue to be a key focus during the forecast period, ensuring that Deutsche Börse Group adds value to society. Against this backdrop, the company expects to maintain the availability of the different trading systems for the cash and derivative market at the very high level seen in previous years throughout the forecast period.

Responsible management that focuses on long-term value creation is of considerable importance for Deutsche Börse Group as a service provider. Given demographic change and the resulting shortage of specialist staff, the company aims to continue to position itself adequately and – among other things – to increase the number of women in management positions.

Deutsche Börse AG's Executive Board has defined target quotas for women on the two management levels beneath the Executive Board, in accordance with section 76 (4) of the AktG, in each case referring to Deutsche Börse AG. By 31 December 2021, the proportion of women holding positions in the first and second management levels beneath the Executive Board is planned to reach 15 per cent and 20 per cent, respectively.

Moreover, as early as in 2010, the Executive Board had adopted a voluntary commitment to increase the share of women holding middle and upper management positions to 20 per cent by 2020, and of women holding lower management positions to 30 per cent during the same period. The Group maintains this ambition, and has extended the scope of its voluntary commitment, over and above legal requirements. Firstly, the target figures determined in this context relate to Deutsche Börse Group (including subsidiaries) worldwide. Secondly, the definition of management levels/positions was extended to also include heads of teams, for example.

## Future development of the Group's financial position

The company expects operating cash flow, which is Deutsche Börse Group's primary funding instrument, to remain clearly positive in the future. The Group expects that two significant factors will influence changes in liquidity. Firstly, the company plans to invest around €200 million in intangible assets and property, plant and equipment at Group level. These investments will serve primarily to develop new products and services in the Eurex (financial derivatives) and Clearstream (post-trading) segments, and to enhance existing ones. Secondly, the Executive Board and Supervisory Board of Deutsche Börse AG will propose a dividend of €2.90 per share to the Annual General Meeting to be held in May 2020. This would correspond to a cash outflow of about €532 million. Against the background of the growth strategy, the company anticipates that, in future, freely available funds will increasingly also be applied to the Group's complementary external growth options. Apart from the above, no other material factors were expected to impact the Group's liquidity at the time the combined management report was prepared. As in previous years, the Group assumes that it will have a sound liquidity base in the forecast period due to its positive cash flow from operating activities, adequate credit lines (for details [see note 23 to the consolidated financial statements for details](#)), and flexible management and planning systems.

Deutsche Börse Group generally aims to distribute dividends equivalent to between 40 and 60 per cent of adjusted net profit for the period attributable to Deutsche Börse AG shareholders. Within this range, the Group manages the actual payout ratio mainly relative to the business performance and based on continuity considerations. In addition, the company plans to invest the remaining available funds primarily into organic growth, but also, secondarily, for the Group's complementary external development. Should the Group be unable to invest these funds, additional payouts, particularly share buy-backs, present another opportunity for the use of funds. To maintain its strong credit ratings at



Group level, the company aims at a ratio of net debt to EBITDA of no more than 1.75, and a ratio of free funds from operations to net debt of at least 50 per cent.

### Overall assessment by the Executive Board

The Executive Board of Deutsche Börse AG believes that the Group continues to be very well positioned in terms of international competition, thanks to its comprehensive offering along the securities trading value chain and its innovative strength. Against this backdrop, the Executive Board expects to see a positive trend in the Group's results of operations over the long term. The purpose of the measures as part of the growth strategy is to further accelerate the Group's growth. In this context, the Group aims to act in a more agile and effective manner, and with increased client focus, to turn Deutsche Börse into the global market infrastructure provider of choice, being top-ranked in all its activities. Looking at the economic and regulatory framework over the forecast period, uncertainty persists concerning capital market participants' behaviour; therefore, it is impossible to come up with a concrete forecast for cyclical growth in net revenue. Nonetheless, Deutsche Börse Group endeavours to further expand its structural growth areas, and to increase their contribution to net revenue again by at least 5 per cent. In terms of net profit for the period attributable to Deutsche Börse AG shareholders, the Executive Board expects growth (excluding non-recurring effects) of around €1.20 billion in the forecast period. Overall, the Executive Board assumes on this basis that cash flow from operating activities will be clearly positive and that, as in previous years, the liquidity base will be sound. The overall assessment by the Executive Board is valid as at the publication date for this combined management report.

### Deutsche Börse AG (disclosures based on the HGB)

The annual financial statements of Deutsche Börse AG are prepared in accordance with the provisions of the German Commercial Code (Handelsgesetzbuch, HGB) and the supplementary provisions of the German Stock Corporation Act (Aktiengesetz, AktG) and are the underlying basis for the explanations that follow.

### Business and operating environment

#### General position

Deutsche Börse AG is the parent company of Deutsche Börse Group. The parent company's business activities include first and foremost the cash and derivatives markets, which are reflected in the Eurex (financial derivatives) and Xetra (cash equities) segments, as well as the data and index businesses. Deutsche Börse AG also operates essential parts of Deutsche Börse Group's information technology. The development of Deutsche Börse Group's Clearstream (post-trading) segment is reflected in Deutsche Börse AG's business development, primarily due to the profit and loss transfer agreement with Clearstream Holding AG. Deutsche Börse Group's IFS (investment fund services) and GSF (collateral management) segments, in contrast, play a lesser role for Deutsche Börse AG. Nonetheless, Deutsche Börse AG's business and operating environment is essentially the same as that of Deutsche Börse Group; this is described in the ["Macroeconomic and sector-specific environment"](#) section.

## Deutsche Börse AG's course of business in the reporting period

Deutsche Börse AG's revenues have increased by 1.9 per cent in the 2019 financial year, coming in below the company's expectations. Total costs (staff costs, amortisation of intangible assets and depreciation of property, plant and equipment and other operating expenses) decreased by 4 per cent. Our volume of new business has risen by just under 55.2 per cent over the same period of the previous year. Deutsche Börse AG's Executive Board considers the company's performance during the 2019 financial year as satisfactory.

### Performance figures for Deutsche Börse AG

	2019 €m	2018 €m	Change %
Sales revenue	1,423.5	1,396.5	1.9
Total costs	884.6	921.2	- 4.0
Net income from participations held	542.9	242.3	124.1
EBITDA	1,181.2	831.2	42.1
Net profit for the period	825.9	532.2	55.2
Earnings per share (€)	4.50: <sup>1)</sup>	2.88: <sup>1)</sup>	56.3

1) Calculation based on weighted average of shares outstanding

### Sales revenue by segment

	2019 €m	2018 €m	Change %
Eurex (financial derivatives)	854.5	836.6	2.1
EEX (commodities)	14.8	13.5	9.6
360T (foreign exchange)	0.4	2.9	- 85.2
Xetra (cash equities)	222.1	229.8	- 3.3
Clearstream (post-trading)	83.8	75.7	10.7
IFS (investment fund services)	15.0	8.7	72.3
GSF (collateral management)	7.8	3.1	152.3
Qontigo (index business)	25.3	27.4	- 7.6
Data (data business)	199.7	198.8	0.5
<b>Total</b>	<b>1,423.5</b>	<b>1,396.5</b>	<b>1.8</b>

## Results of operations of Deutsche Börse AG

Deutsche Börse AG's net revenue rose by 1.9 per cent in 2019 to €1,423.5 million (2018: €1,396.5 million). At €854.5 million (2018: €836.6 million), the largest contribution to revenue came from the Eurex (financial derivatives) segment. The breakdown of revenue by company segment is provided in the ["Sales revenue by segment"](#) table.

For more information on the development of the Eurex (financial derivatives) segment, please refer to the ["Eurex \(financial derivatives\) segment"](#) section.

The revenue contributed by the EEX (commodities) and 360T (foreign exchange) segments is generated mainly by IT services. Therefore, the explanations in the ["EEX \(commodities\) segment"](#) and ["360T \(foreign exchange\) segment"](#) sections relate only indirectly to Deutsche Börse AG. The earnings situation of the Data and Qontigo (index business) segments is shown in the ["Data segment"](#) and ["Qontigo \(index business\) segment"](#) sections. It is worth noting that the business development of the STOXX Ltd. subsidiary does not directly impact upon the business performance of Deutsche Börse AG. An explanation of the business development in the Xetra (cash equities) segment can largely be found in the ["Xetra \(cash equities\) segment"](#) section. Revenues attributable to the Clearstream (post-trading), IFS

(investment fund services) and GSF (collateral management) segments result from the IT services Deutsche Börse AG provides to companies belonging to the Clearstream Holding subgroup.

Other operating income decreased to €36.3 million during the year under review (2018: €54.3 million).

The company's total costs of €884.6 million were down 4 per cent year-on-year (2018: €921.2 million). For a breakdown, please refer to the [table "Overview of total costs"](#). Staff costs were down by 17.5 per cent year-on-year during the year under review, to €248.6 million (2018: €301.5 million). The decline in staff costs is mainly due to the restructuring programme and streamlining of the management structure. Furthermore, additions to pension provisions decreased by €9.8 million, which was due to changed framework conditions. The staff numbers increased from an average of 1,437 in the prior year to 1,472 in the 2019 financial year.

Amortisation of intangible assets and depreciation of property, plant and equipment increased to a total of €59.1 million in the year under review (2018: €57.8 million).

Other operating expenses were up 2.7 per cent year-on-year, to €576.9 million (2018: €561.9 million).

Deutsche Börse Group's result from equity investments for the 2019 financial year totalled €542.9 million (2018: €242.3 million) and, among others, consisted of dividend income of €305.7 million (2018: €90.6 million), income from the transfer of profits in the amount of €228.1 million (2018: €152.7 million) and a loss absorption from profit and loss transfer agreements of €3.9 million.

Earnings before interest, tax, depreciation and amortisation (EBITDA) increased to €1,181.2 million (2018: €831.2 million). Net profit for the period amounted to €825.9 million, representing an increase of 55.2 per cent (2018: €532.2 million).

#### Development of profitability

Deutsche Börse AG's return on equity expresses the ratio of net income after taxes to average equity available to the company during the course of 2019. Return on equity increased from 21 per cent in 2018 to 29.9 per cent in the year under review.

#### Financial position of Deutsche Börse AG

As at the reporting date, cash and cash equivalents amounted to €849.3 million (2018: €716.5 million) and included bank deposits on current accounts as well as term deposits and other short-term deposits.

Deutsche Börse AG has external credit lines available of €605.0 million (2018: €605.0 million), which were not yet drawn upon as at 31 December 2019. Moreover, the company has a Commercial Paper programme in place, which allows for flexible and short-term financings of up to €2.5 billion, in various currencies. At the end of the year, there was no Commercial Paper outstanding.

Through a Group-wide cash-pooling system, Deutsche Börse AG ensures an optimum allocation of liquidity throughout Deutsche Börse Group; in this way, the parent entity makes sure that all subsidiaries are in a position to honour their payment obligations at any time.

Deutsche Börse AG has issued three corporate bonds with a nominal value of €600 million each and one corporate bond with a nominal value of €500 million. For more details concerning these bonds, please refer to the ["Financial position" section](#).

In the 2019 financial year, Deutsche Börse AG generated cash flow from operating activities of €945.1 million (2018: 642.3 million), mainly thanks to higher net profit.

Cash flow from investing activities amounted to €495.0 million (2018: €444.1 million). This increase is strongly correlated with the capital reduction of Eurex Global AG (€442.3 million) and STOXX Ltd. (€50.1 million). In addition, the Index Business was spun off into Qontigo Index GmbH (€14.0 million).

Cash flow from financing activities amounted to €–486.1 million in the year under review (2018: €–807.8 million). In the 2019 financial year, Deutsche Börse AG distributed €495 million in dividends for the year 2018. Cash and cash equivalents amounted to €47.3 million on the 31 December 2019 reporting date (2018: €–906.6 million) and consisted of liquid funds of €849.3 million (2018: €716.5 million), less cash-pooling liabilities of €801.9 million (2018: €1,623.1 million).

#### Overview of total costs

	2019 €m	2018 €m	Change %
Staff costs	248.6	301.5	– 17.5
Depreciation and amortisation	59.1	57.8	2.3
Other operating expenses	576.9	561.9	2.7
Total	884.6	921.2	– 4.0

#### Cash flow statement (condensed)

	2019 €m	2018 €m
Cash flows from operating activities	945.0	642.3
Cashflow from investing activities	495.0	– 444.1
Cashflow from financing activities	– 486.1	– 807.8
Cash and cash equivalents as at 31 December	47.3	– 906.6

#### Net assets of Deutsche Börse AG

As at 31 December 2019, the non-current assets of Deutsche Börse AG amounted to €5,349.8 million (2018: €5,892.9 million). At €5,007.5 million, most of the non-current assets was attributable to shares in affiliated companies (2018: €5,520.9 million), mainly from the investment in Clearstream Holding AG, in 360 Treasury Systems AG, in Eurex Frankfurt AG as well as the investment in Qontigo GmbH.

Deutsche Börse AG's investments in intangible assets and property, plant and equipment totalled €60.4 million during the year under review (2018: €56.1 million). This rise was related to payments on account for construction in progress in various locations. Depreciation and amortisation in 2019 amounted to €59.2 million (2018: €57.8 million).

Receivables from and liabilities to affiliated companies include settlements for intra-Group services and amounts invested by Deutsche Börse AG within the scope of cash-pooling arrangements. Apart from settlements for intra-Group services, receivables from affiliated companies are largely due from Qontigo GmbH and Qontigo Index GmbH. This is on account of the spin-off of the Index Business into Qontigo Index GmbH and the associated establishment of Qontigo GmbH. In total, these items amount to €80.4 million. Liabilities to affiliated companies resulted mainly from cash-pooling amounting to €801.9 million (2018: €1,623.1 million) and trade liabilities in the amount of €46.1 million (2018: €43.9 million).

Working capital amounted to €-903.5 million in 2019 (2018: €-1,652.9 million). The change was mainly attributable to a decrease in liabilities from cash pooling.

Non-current assets (condensed)			Employees per country/region		
	2019	2018		31 Dec 2019	%
	€m	€m			
Intangible assets	108.5	117.9	Germany	1,484	98.0
Property, plant and equipment	85.6	74.9	Great Britain	20	1.3
Financial assets	5,155.7	5,700.1	France	5	0.3
Non-current assets as at 31 December	5,349.8	5,892.9	Other European countries	4	0.3
			Asia	2	0.1
			Total Deutsche Börse AG	1,515	100

### Deutsche Börse AG employees

The number of employees at Deutsche Börse AG rose by 74 in the reporting year and totalled 1,515 as at 31 December 2019 (31 December 2018: 1,469 employees). The average number of employees at Deutsche Börse AG for the 2019 financial year was 1,472 (2018: 1,437).

During the 2019 financial year, 93 employees left Deutsche Börse AG, resulting in a staff turnover rate of 6 per cent.

On 31 December 2019, Deutsche Börse AG had employees at six locations around the world. Information on the countries, regions, the employees' age structure and length of service are provided in the tables that follow.

As at 31 December 2019, 77 per cent of Deutsche Börse AG's employees were graduates. The ratio is based on the number of employees holding a degree from a university, college or vocational academy, as well as the employees who have completed degrees abroad. In 2019, the company invested an average of 4.0 days in training per employee.

### Age structure of employees

	31 Dec 2019	%
Less than 30 years	177	11.7
30 to 39 years	466	30.8
40 to 49 years	401	26.4
More than 50 years	471	31.1
Total Deutsche Börse AG	1,515	100

### Employee length of service

	31 Dec 2019	%
Less than 5 years	688	45.4
5 to 15 years	340	22.4
More than 15 years	487	32.2
Total Deutsche Börse AG	1,515	100

### Remuneration report of Deutsche Börse AG

The principles governing the structure and design of the remuneration system at Deutsche Börse AG are the same as those for Deutsche Börse Group. Therefore, please refer to the [remuneration report](#) for Deutsche Börse Group.

### Corporate governance statement in accordance with section 289f HGB

The corporate governance statement in accordance with section 289f HGB corresponds to that of Deutsche Börse Group. Therefore, please refer to the ["Combined corporate governance statement and corporate governance report"](#) section.

### Opportunities and risks facing Deutsche Börse AG

The opportunities and risks facing Deutsche Börse AG, as well as the measures and processes for dealing with these opportunities and risks, are essentially the same as those for Deutsche Börse Group. Therefore, please refer to the [risk report](#) and the [report on opportunities](#) of Deutsche Börse Group. In principle, Deutsche Börse AG participates in the opportunities and risks of its equity investments and subsidiaries in proportion to the size of its shareholding. Risks that could potentially threaten the existence of the Eurex Clearing AG subsidiary would also have had a direct influence on Deutsche Börse AG based on a letter of comfort issued by Deutsche Börse AG. As of the reporting date, there were no risks jeopardising the company's existence. Further information on the letter of comfort issued to Eurex Clearing AG is available in the ["Other financial obligations and transactions not included in the balance sheet"](#) section in the notes to the annual financial statements of Deutsche Börse AG.

The description of the internal control system (ICS), required by section 289 (4) of the HGB, is provided in the ["Group management"](#) section.

### Report on expected developments at Deutsche Börse AG

The expected developments in Deutsche Börse AG's business are largely subject to the same factors as those influencing Deutsche Börse Group. The relevant disclosures and quantitative information on Deutsche Börse AG are provided in the [report on expected developments](#).

## Remuneration report

This remuneration report outlines the principles governing the remuneration system applicable to the members of Deutsche Börse AG's Executive Board: it also describes the structure and amount of remuneration payable to them, together with the principles governing Supervisory Board remuneration, and the amounts payable. The remuneration report is part of the combined management report and complies with the requirements of the Handelsgesetzbuch (HGB, German Commercial Code), the International Financial Reporting Standards (IFRSs) and German Accounting Standard No. 17 (Reporting on the Remuneration of Members of Governing Bodies). In addition, the remuneration report (including the remuneration systems for the Executive Board and the Supervisory Board outlined therein) complies with almost all recommendations of the German Corporate Governance Code (the "Code") as amended on 7 February 2017 (the "GCGC 2017"); for details, please refer to the ["Combined corporate governance statement and corporate governance report"](#). The remuneration report (including the remuneration systems for the Executive Board and the Supervisory Board) also complies with almost all recommendations of the Code as amended on 16 December 2019 (the "GCGC 2020"); compliance will increase even further for the remuneration systems for the Executive Board and the Supervisory Board adjusted with effect from the 2020 financial year.

The remuneration report comprises two sections: "Remuneration systems for the Executive Board and the Supervisory Board" and "Total remuneration and remuneration amounts for the Executive Board and the Supervisory Board".

### Remuneration systems for the Executive Board and the Supervisory Board

#### Remuneration system for the Executive Board

##### General principles

The Supervisory Board, being advised by its Nomination Committee, determines the remuneration system for the members of the Executive Board. The remuneration system adopted by the Supervisory Board is submitted to the Annual General Meeting. The Supervisory Board reviews the remuneration system on a regular basis, supported by its Nomination Committee, and submits the remuneration system to the Annual General Meeting for approval in the event of any material changes – in any case, every four years. The Supervisory Board may retain the support of independent external experts when necessary. Deutsche Börse Group's rules for avoiding and dealing with conflicts of interest are also applicable to the procedures for determining, implementing and reviewing the remuneration system. Where conflicts of interest occur in exceptional cases, they must be disclosed: affected Board members may be excluded from discussion and decision-making processes, amongst other consequences.

The previous remuneration system for the Executive Board members was adopted by the Supervisory Board, effective 1 January 2016, and was approved by the Annual General Meeting on 11 May 2016 in accordance with section 120 (4) of the Aktiengesetz (AktG, German Stock Corporation Act) (old wording). This remuneration system was adjusted in some areas, effective 1 January 2020, by way of a Supervisory Board resolution; the adjusted remuneration system will be submitted to the Annual General Meeting on 19 May 2020 for approval in accordance with section 120a (1) of the AktG. This remuneration report contains additional explanations of the adjustments applicable from the 2020 financial year onwards; besides these adjustments, the amended remuneration system for the Executive Board is in line with the system in force to date.

Executive Board remuneration is set by the Supervisory Board, on the basis of the remuneration system in force; the Nomination Committee is responsible for preparing the Supervisory Board's decision. In doing so, the Supervisory Board shall ensure that remuneration is appropriate to the corresponding Executive Board member's tasks and performance, as well as to the enterprise's financial situation, and that it does not exceed the prevailing market level of remuneration without specific reasons. For this purpose, the Supervisory Board shall conduct a horizontal and vertical peer-group comparison on a regular basis (at least every two years); see the [section on "Examination of appropriateness of Executive Board remuneration \(peer-group comparison\)"](#) for details.

Targets and reference parameters set by the Supervisory Board for variable remuneration components for each new financial year may not be changed retrospectively.

A target remuneration in line with prevailing market levels is assigned to each Executive Board member. This target remuneration is predominantly oriented upon the skills and experience required for that member's tasks, as well as upon the target remuneration for the other Executive Board members. The remuneration for the Chairman of the Executive Board (Chief Executive Officer) is roughly double the target remuneration for the other Executive Board members.

**Implementation of the remuneration system adjusted with effect from the 2020 financial year**  
The adjusted remuneration system for the Executive Board applies to all service contracts with Executive Board members entered into or extended on or after 1 January 2020. In accordance with the GCGC 2020 and section 26j of the Einführungsgesetz zum Aktiengesetz (EGAktG, Introductory Law to the German Stock Corporation Act), the existing remuneration system shall continue to apply to all existing service contracts with members of the Executive Board. Executive Board members are remunerated in accordance with the remuneration system applicable to them.

**Contribution to promoting the corporate strategy and supporting the long-term development of the company.**

Within the framework of its corporate strategy, Deutsche Börse's goal is to strengthen – and further expand – its position as a leading European financial markets infrastructure provider with global growth ambitions over the long term. Hence, the company's primary strategic focus is on growth. Deutsche Börse Group aligns its actions with long-term and sustainable company success, discharging its corporate responsibility holistically.

In line with these targets, the remuneration system for the Executive Board is based on three pillars: firstly, a clear performance orientation and a highly detailed assessment based on ambitious internal and external targets ensure the focus is on the company's goal of above-average growth. Secondly, multi-year bases for assessment, long-term elements, and the use of deferred payouts discourage excessive risk-taking. Thirdly, the new remuneration system promotes a strong equity culture, and in this way helps align the interests of shareholders, management and other stakeholders. Particularly the individual targets set incentives for sustainable action.

Within the scope of the remuneration system adjusted as of 1 January 2020, the Supervisory Board is entitled to temporarily deviate from the remuneration system pursuant to section 87a (2) of the AktG if it is necessary for the sake of the company's long-term wellbeing. Such a deviation requires a resolution adopted by the Supervisory Board with a two-thirds majority – based on a recommendation made by the Nomination Committee – listing the reasons and the type of deviation on a case-by-case basis. Based on such a resolution, deviations from the remuneration system are possible for all remuneration components. The maximum remuneration however cannot be touched.



## Structure and remuneration components

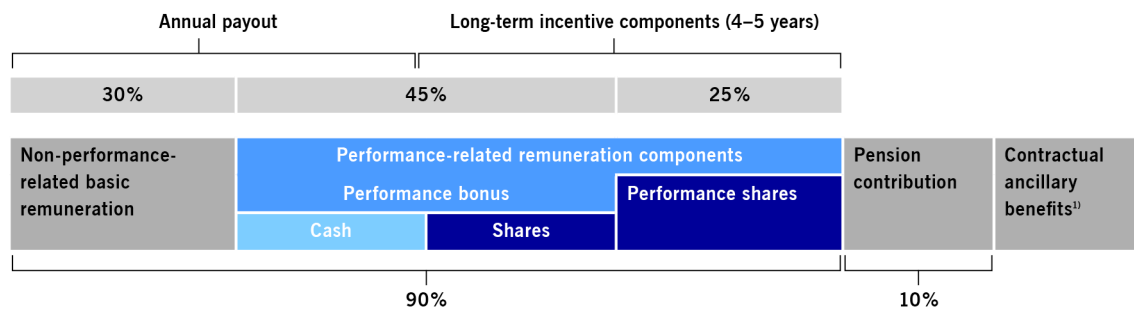
The remuneration system for Executive Board members consists of four components:

- Non-performance-related basic remuneration
- Performance-related remuneration components
- Contractual ancillary benefits
- Pension contribution

On aggregate, the four components set out above represent the target total remuneration. Non-performance-related basic remuneration plus performance-related remuneration components are equivalent to target direct remuneration (also refer to the chart below: [“Composition of target direct remuneration and target total remuneration”](#)).

---

### Composition of the target direct compensation and the target total remuneration



% = Proportion of the target direct compensation and of the target total remuneration respectively (schematic)

■ Non-performance-related component (cash component)

■ Performance-related component (cash component)

■ Performance-related component (share-based payment)

<sup>1)</sup> Up to approx. 2% of the target total remuneration

In addition, the company's share ownership guidelines require Executive Board members to invest a substantial amount of money in Deutsche Börse AG shares during their term of office.

The individual remuneration system components for the Executive Board are explained in detail below.

#### Non-performance-related basic remuneration

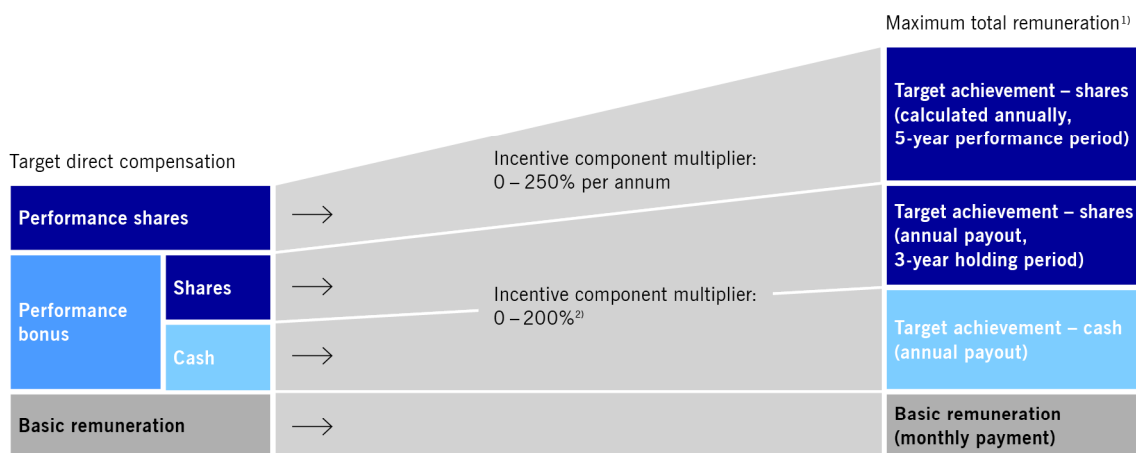
The members of the Executive Board receive a fixed base salary, which is payable in twelve equal monthly instalments. This non-performance-related remuneration comprises approximately 30 per cent of the target direct remuneration payable each year.

## Performance-related remuneration components

Performance-related remuneration accounts for approxi

for the year and is largely share-based. It predominantly covers a period of several years and comprises a performance bonus and performance shares. Performance-related remuneration is largely calculated on a long-term basis, with various target criteria being assessed over a period of five years (performance shares) or four years (share-based performance bonus: one-year performance period and three-year holding period for shares to be invested). The cash component of the performance bonus (annual payout) is the only short-term variable remuneration component (see also the “Basic remuneration, and annual and long-term incentive components” chart).

## Basic remuneration, and annual and long-term incentive components



■ Performance-related component (share-based payment)

■ Performance-related component (cash component)

■ Non-performance-related component (cash component)

<sup>11</sup> Together with pension expenses and ancillary benefits subject to maximum remuneration

<sup>21</sup> As of fiscal year 2020: 0 to 233%

## Performance bonus

The performance bonus is calculated on the basis of Deutsche Börse AG's Performance Bonus Plan (PBP). It accounts for roughly two-thirds of Executive Board members' performance-related remuneration and for approximately 45 per cent of their target direct remuneration. The performance bonus is split 50:50 between a share-based component (the share-based performance bonus) and a cash component.

## Performance shares

Performance shares are calculated and granted on the basis of the Performance Share Plan (PSP). They are paid out after the reporting period since they reflect the performance of Deutsche Börse AG's share price over a five-year performance period. Performance shares account for approximately one-third of Executive Board members' performance-related remuneration, and for approximately 25 per cent of their target direct remuneration.

The criteria used by the Supervisory Board to assess the extent to which Executive Board members have met their individual targets are described below. These criteria are used to calculate the performance bonus due to Executive Board members, as well as the number of performance shares to be granted and their value.

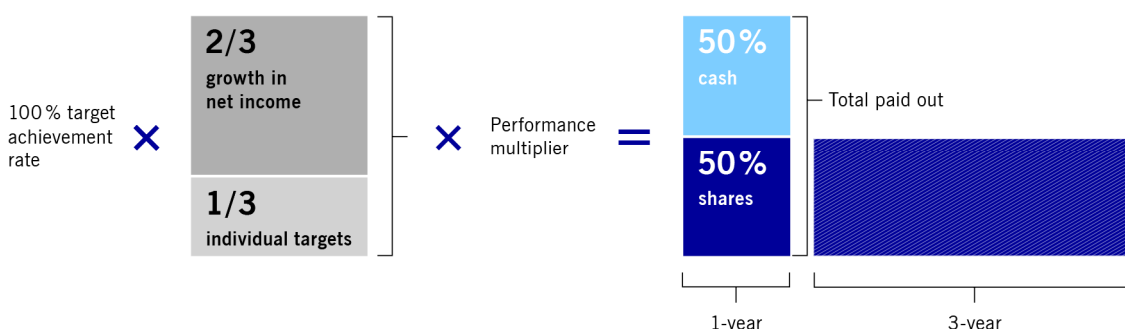
#### Principles governing the PBP and assessing target achievement for the performance bonus

Based on the PBP, a performance bonus with a certain target value is indicated to the Executive Board members for each year. The extent to which Executive Board members have met their targets for the performance bonus is determined for each financial year on the basis of the PBP. The basic assessment procedure is based on two components: two-thirds of the bonus consider the increase in adjusted net profit attributable to Deutsche Börse AG shareholders for the remuneration year concerned (hereinafter referred to as net income) and thus reflect Deutsche Börse AG's strategic growth orientation. One-third reflects the Executive Board members' individual performance which is assessed particularly with a view to whether strategic and operating targets with strategic relevance were achieved. This way, the performance bonus recognises the implementation of Deutsche Börse AG's business strategy, thus contributing to the company's long-term development.

Once the Supervisory Board has determined the overall extent to which Board members have met their targets using these two components, it may then review this figure and adjust it using a performance multiplier in exceptional situations if so required; this can be done either for individual Executive Board members or for the Executive Board as a whole. Please refer to the ["Determining the performance multiplier"](#) section.

The total performance bonus is paid out in cash, at the latest together with the regular salary payment for the calendar month following the approval of Deutsche Börse AG's consolidated financial statements for the year. Executive Board members are obliged to invest 50 per cent of the total payout after tax in Deutsche Börse AG shares, which they have to hold for at least three years. For further details regarding the share purchase process, please refer to the ["Automated share purchase designed to fulfil the plan conditions as well as the share ownership guidelines"](#).

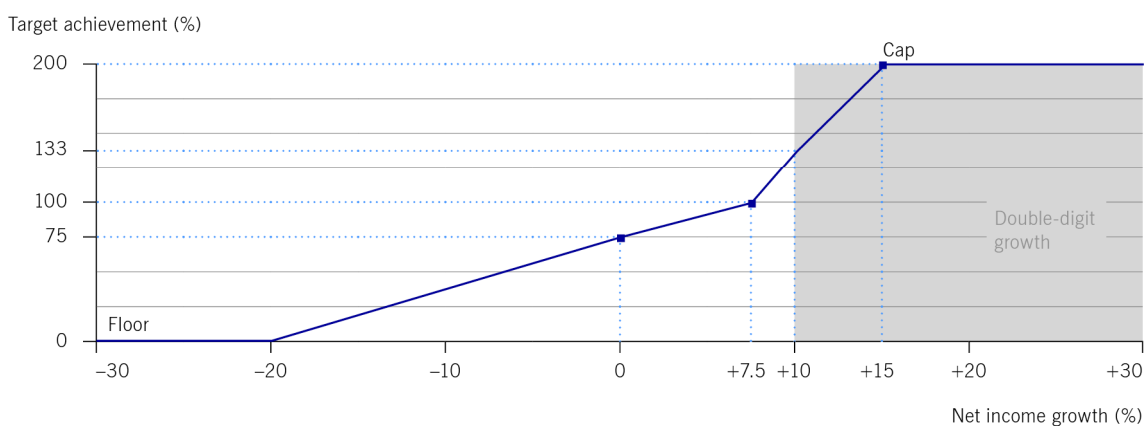
#### Breakdown of the performance bonus



### Assessing the adjusted net income growth

Net income growth is calculated independently from the financial planning concerned by comparing the adjusted net income for the remuneration year with the prior-year figure. Target achievement rates may range between 0 and 200 per cent: net income decrease of 20 per cent or more corresponds to a 0 per cent target achievement rate (floor). Where net income remains stable (i.e. unchanged year-on-year), this is deemed to represent a target achievement rate of 75 per cent, while a 7.5 per cent increase is equivalent to a target achievement rate of 100 per cent (target value). Net income growth of 15 per cent or more corresponds to a 200 per cent target achievement rate (cap). This means that there is a stronger incentive to achieve net income growth of between 7.5 per cent and 15 per cent, because the target achievement curve is steeper (see the following “Assessing net income for the performance bonus” chart).

### Assessing net income growth for the performance bonus



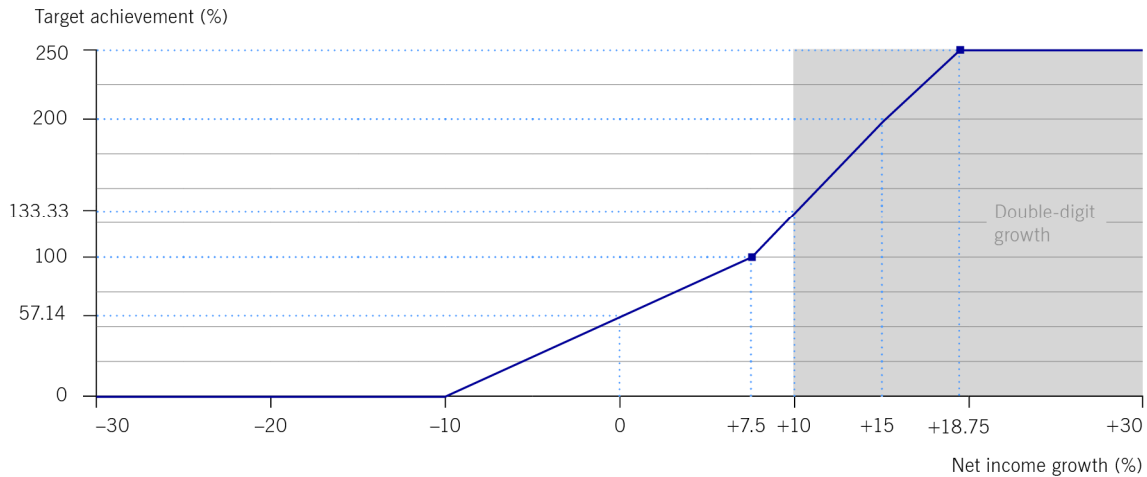
#### PBP adjustments as of the 2020 financial year

Under the remuneration system in force from the 2020 financial year onwards, the net income assessment to determine target achievement for the performance bonus was adjusted. By carrying out these amendments, the Supervisory Board once again increases the incentive for above-average net income growth.

On the one hand, the floor for a performance bonus payout was elevated, meaning that in future a net income decrease of 10 per cent or more corresponds to a 0 per cent target achievement rate (previously: 20 per cent and more). According to the Supervisory Board's view, the thus steeper and now linear target achievement curve (see the following [chart “Assessing net income for the performance bonus as of 1 January 2020”](#)) between floor and target value better reflects Deutsche Börse AG's desired performance culture. At the same time, the Supervisory Board continues to deem the floor of a slightly decreasing net income for the one-year performance period to be appropriate. Such net income fluctuations are often also based on external factors and should not lead to a total loss of the performance bonus.

In addition, the maximum performance bonus as of 1 January 2020 shall only be granted as of minimum net income growth amounting to 18.75 per cent (previously: 15 per cent). The cap was also elevated, from 200 per cent to 250 per cent, to reward above-average net income growth even more.

## Assessing net income growth for the performance bonus as of 1 January 2020



### Determining individual targets and assessing the target achievement

The Supervisory Board defines the Executive Board members' individual targets and their weighting for the upcoming financial year (and in the event that a member is elected during the year, as of the appointment date). Individual targets can also be determined for the entire Executive Board.

Individual targets should contribute to an implementation of the corporate strategy as well as to a long-term, sustainable development at Deutsche Börse Group. Targets must be demanding and ambitious. Furthermore, they must be specific enough to allow for target achievement to be measured, i.e. specific figures or expectations for target achievement are determined. To avoid dilution, each Executive Board member shall have no more than four targets per year.

The targets are derived from the Group or corporate strategy or its respective parts and comprise their implementation. Strategic projects and initiatives can directly serve to implement the corporate strategy, as can operating measures. The latter can also be agreed as targets if they indirectly contribute to strategy implementation, for example by creating an essential foundation for the company's structure, organisation, function and long-term development.

The performance criteria to be used by the Supervisory Board within the scope of the annual target agreement can be financial as well as non-financial and must include at least one performance criterion from the catalogue of sustainability topics (including ecological and social aspects) per year, provided the Supervisory Board doesn't refrain from this due to special circumstances in individual cases.

## Catalogue of performance criteria

Corporate strategy implementation	Sustainability
Objectives of the corporate strategy	Customer satisfaction
Business development	Employee satisfaction
Product development and innovation	Diversity
Gaining market share	Risk management
Exploring new markets	Compliance
Strategic projects	Corporate governance
M&A	Corporate Social Responsibility
Company structure, organisation, and function	Carbon emission reduction/considerate use of resources
Efficiency enhancement	Reporting and communication
Liquidity planning	Succession planning

Advised by the Nomination Committee, the Supervisory Board assesses the extent to which each member of the Executive Board has achieved his or her targets after the end of the remuneration year in question. A floor of 0 per cent and a cap of 200 per cent have been defined for the target achievement rate of individual targets.

The individual targets for the Executive Board members for the 2020 financial year were determined in accordance with the adjusted remuneration system. The target agreement includes both targets regarding the implementation of Deutsche Börse AG's growth strategy "Roadmap 2020" and sustainability targets alike. The individual targets determined for and the target achievement rate of the Executive Board members are reported in a transparent manner following the remuneration year.

### Determining the performance multiplier

The performance multiplier for the performance bonus supports the Supervisory Board in special situations when considering additional success and performance aspects hitherto not sufficiently comprised in the previously determined targets. As such, the performance multiplier can be used e.g. in the event of mergers, acquisitions or divestments to allow the Supervisory Board to account for any dilution of equity, or to reflect the achievement of qualitative or quantitative targets (especially integration parameters) when finally assessing the extent to which an Executive Board member has achieved his or her overall targets. The performance multiplier has a minimum value of 0.8 and a maximum value of 1.2; it is multiplied by the performance assessment for the performance bonus, taking the 200 per cent cap (as of 2020 financial year: 233.33 per cent) into account.

#### Principles governing the PSP and assessing target achievement for performance shares

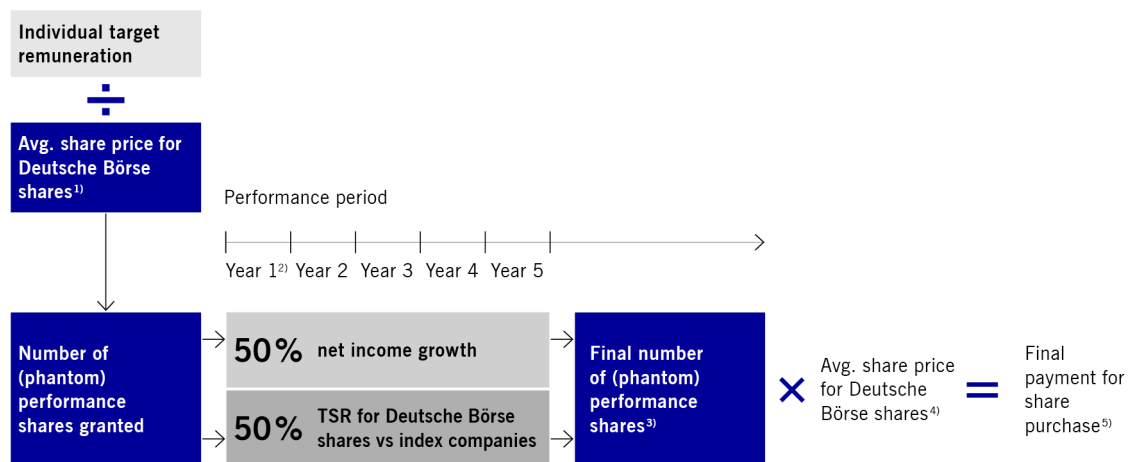
At the beginning of each financial year, the PSP allots a potential number of so-called performance shares to each member of the Executive Board. The number of initial (phantom) performance shares thus allotted is determined by dividing the amount of the individual target remuneration (in euros) by the average Xetra<sup>®</sup> closing price of Deutsche Börse shares in the calendar month preceding the start of the performance period (fair value of the performance shares). Target achievement regarding performance shares is determined after the end of a five-year performance period. The respective target achievements are assessed on the basis of two components: firstly, the adjusted net income growth over the five-year period, and, secondly, the relative total shareholder return (TSR) for Deutsche Börse shares compared to the TSR for the STOXX<sup>®</sup> Europe 600 Financials index (the industry benchmark) during the same period. The PSP thus supports the implementation of the growth-oriented corporate strategy on the one hand and especially Deutsche Börse AG's long-term development via the long-standing performance period on the other.

The final number of phantom performance shares is determined from the total target achievement rate for net income growth and TSR performance during the performance period, multiplied by the number of (phantom) performance shares granted at the outset. The final number of phantom performance shares determined in this manner is multiplied by the average Xetra closing price for Deutsche Börse shares in the calendar month preceding the end of the performance period. This results in the amount to be paid out to purchase the tradeable shares (adjusted for the dividends per share paid out during the performance period). Each payout amount is generally due in three equal instalments: the first instalment is due at the latest together with the regular salary payment for the calendar month following the approval of Deutsche Börse AG's consolidated financial statements for the year after the end of the performance period in question; the second and third instalments are due at the corresponding dates in the two years subsequent to the payment of the first instalment. The members of the Executive Board are obliged to invest the amount paid out after tax in Deutsche Börse AG shares. For further details regarding the share purchase process, please refer to the [☒](#) section "Automated share purchase designed to fulfil the plan conditions as well as the share ownership guidelines".

The PSP has two variables:

- The first variable is the number of performance shares which is derived from the net income growth and from the TSR for Deutsche Börse shares in comparison to the TSR of the reference index, over a five-year period in each case. The maximum number of performance shares is limited at 250 per cent of the number of performance shares determined at the beginning of the performance period.
- The second variable is the change in the share price and the dividend during the performance period; no cap is applied to the share price.

## Principles governing the Performance Share Plan (PSP)



- Absolute KPI
- Relative KPI

<sup>1)</sup> In the calendar month preceding the start of the performance period

<sup>2)</sup> Year in which performance shares are granted

<sup>3)</sup> Limitation at 250 per cent of number granted

<sup>4)</sup> In the last calendar month of the performance period, including all dividends paid during the performance period

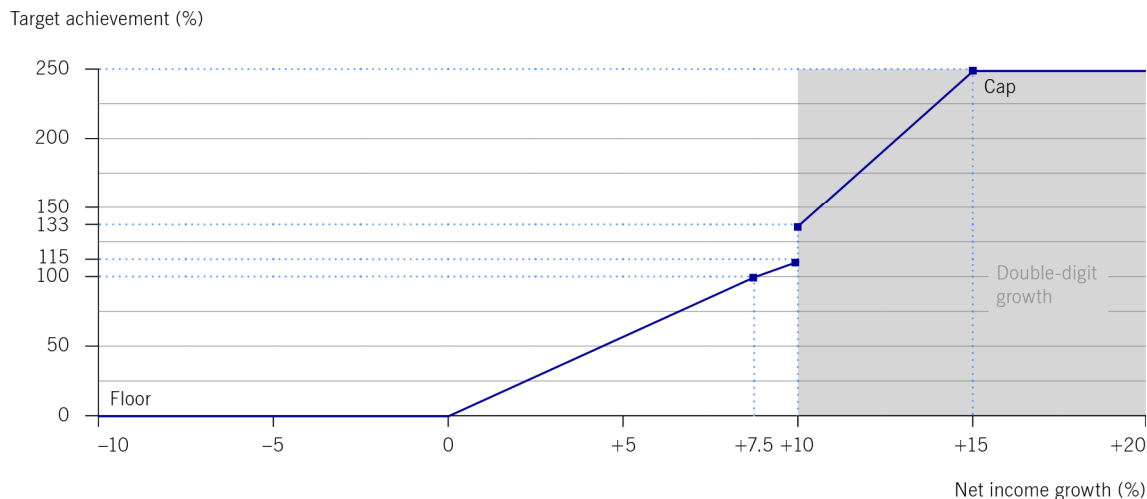
<sup>5)</sup> Due in three tranches

### Assessing net income for performance shares

The Supervisory Board determines the target achievement rate for adjusted net income growth at the end of each financial year during the five-year performance period and determines them for the Executive Board members. The target achievement rate at the end of the performance period in question is the average of the annual target achievement rates for each of the five years. Target achievement rates may range between 0 and 250 per cent. If net income declines or remains unchanged year-on-year, this is deemed to represent a target achievement rate of 0 per cent (floor), while a 7.5 per cent increase corresponds to a target achievement rate of 100 per cent. Net income growth of 15 per cent or more corresponds to a 250 per cent target achievement rate (cap). The target achievement rate increases more strongly for growth rates between 10 and 15 per cent than for single-digit growth rates, providing a greater incentive for Executive Board members to aim for double-digit net income growth (see also the following chart "Assessing net income growth for performance shares").



## Assessing net income growth for performance shares

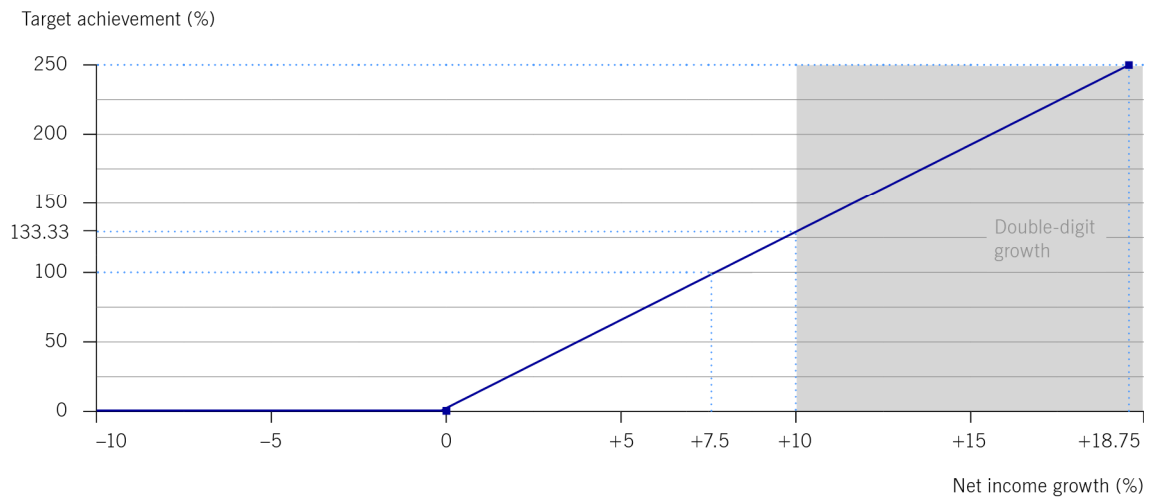


### PSP adjustments regarding net income growth as of the 2020 financial year

The remuneration system valid as of financial year 2020 has also been amended with regard to assessing net income for the PSP. These adjustments refer to the performance periods beginning as of this point in time. Net income growth required to achieve the cap was lifted from 15 per cent to 18.75 per cent, whilst the target achievement cap of 250 per cent was maintained. The Supervisory Board thus increases the demands for maximum target achievement regarding net income growth under the Performance Share Plan.

Furthermore, as of financial year 2020 the target achievement curve is completely linear between floor and cap. Therefore, the higher target achievement rate of 133 per cent in the hitherto non-linear target achievement curve disappears if net income increases by 10 per cent (see the following chart "Assessing net income growth for performance shares as of 1 January 2020").

## Assessing net income growth for performance shares as of 1 January 2020

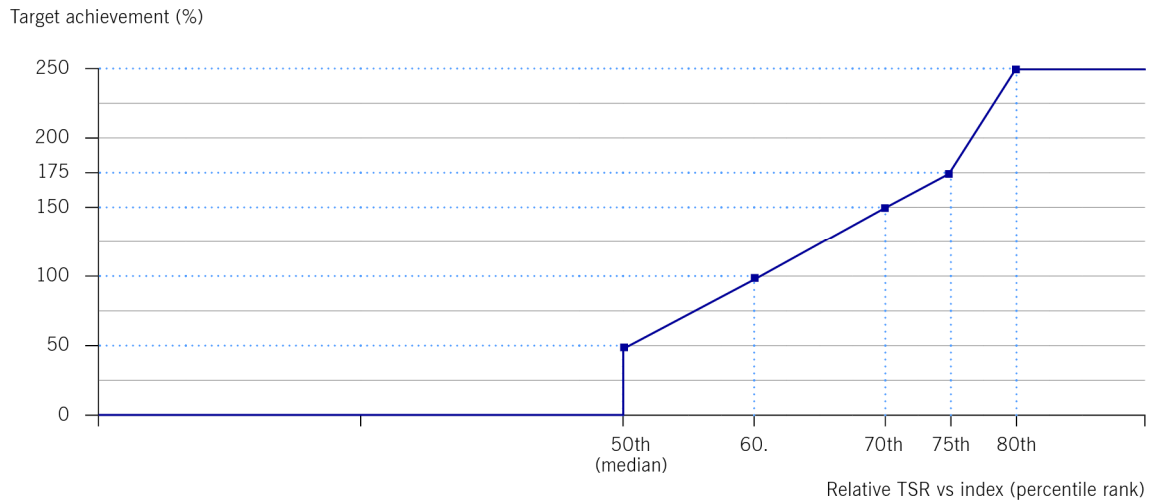


### Assessing the TSR performance for Deutsche Börse shares

The TSR performance for Deutsche Börse shares is derived from Deutsche Börse AG's ranking relative to the companies included in the STOXX Europe 600 Financials index. The target achievement rates for Executive Board members can range from 0 per cent (floor) to 250 per cent (cap). A zero per cent target achievement rate is assumed where Deutsche Börse AG's five-year relative TSR falls short of the median, i.e. where it is lower than that for at least half of the index constituents. Where Deutsche Börse AG's TSR has performed in line with 60 per cent of index constituents, this represents a target achievement rate of 100 per cent. Where Deutsche Börse AG's TSR has performed in line with at least 75 per cent of index constituents, this represents a target achievement rate of 175 per cent. The cap of 250 per cent is reached if Deutsche Börse AG's TSR ranks in the top 20 per cent of index constituents – in other words, if it is in the 80th percentile of the index or higher. Please also refer to the following chart "Assessing the total shareholder return (TSR) for Deutsche Börse shares for performance shares".

---

## Assessing the total shareholder return (TSR) for Deutsche Börse shares for performance shares



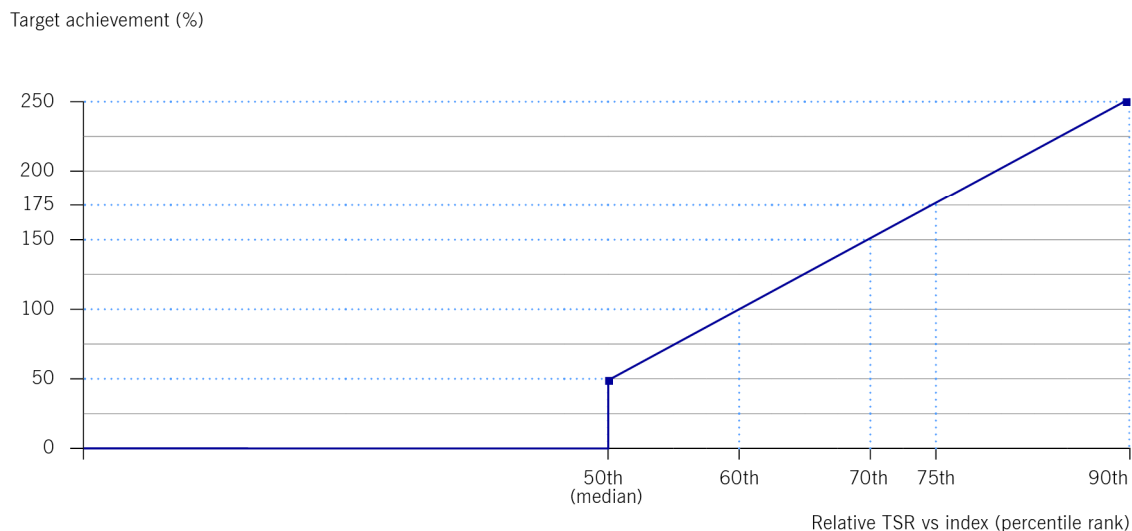
### PSP adjustments regarding TSR performance as of the 2020 financial year

As with assessing net income, the cap for total shareholder return as a second performance indicator of the Performance Share Plan was left at 250 per cent, albeit with a higher target achievement. To reach the cap, Deutsche Börse AG's TSR must in future lie at or above the TSR of at least 90 per cent of companies included in the benchmark index (until financial year 2020: 80 per cent). The Supervisory Board thereby also increases the total shareholder return demands for maximum target achievement under the Performance Share Plan.

In line with the target achievement curve for net income growth, the curve for TSR performance was also adjusted and is linear now.

---

## Assessing the total shareholder return (TSR) for Deutsche Börse shares for performance shares as of 1 January 2020



### Contractual ancillary benefits

Contractual ancillary benefits are granted to members of the Executive Board, such as the provision of an appropriate company car for business and personal use. They also receive taxable contributions towards private pensions. In addition, the company may take out insurance cover for them (within reason). Currently this includes personal accident insurance and directors & officers (D&O) insurance for Executive Board members. Other ancillary benefits may include a temporary or permanent reimbursement of expenses for a second household, journeys home, moving costs, cost coverage for security measures and the use of pool vehicles or transport services.

### Pension commitments

#### Retirement benefits

The members of the Executive Board are generally entitled to receive retirement benefits upon reaching the age of 60, provided that they are no longer in the service of Deutsche Börse AG at that time – for Thomas Book, this applies on reaching the age of 63. The Supervisory Board reviews and determines the pensionable income that is used as the basis for retirement benefits. There are two different retirement benefit systems for Executive Board members. Executive Board members normally receive a defined contribution pension. Those members who continue being subject to an existing agreement from prior appointments within Deutsche Börse Group may instead receive a defined benefit pension. The pensionable income and the present value of the pension commitments existing as at 31 December 2019 are shown in the [“Retirement benefits” table](#).

**Defined contribution pension system:** For Executive Board members covered by the defined contribution pension system, the company makes an annual capital contribution to the scheme for each calendar year that a member serves on the Executive Board. This contribution is determined by applying an individual percentage (known as the “replacement rate”) to the pensionable income. The pensionable income is determined and regularly reviewed by the Supervisory Board. The annual capital contributions calculated in this way bear interest of 3 per cent per annum. Benefits are generally paid in the form of a monthly pension, however, Executive Board members have the option of choosing a one-off capital payment or five instalments. Pension entitlements are vested in accordance with the

Betriebsrentengesetz (German Company Pensions Act). The defined contribution pension system applies to Theodor Weimer, Christoph Böhm, Stephan Leithner, Gregor Pottmeyer and Hauke Stars.

**Defined benefit pension system:** After reaching the contractually agreed retirement age, members of the Executive Board covered by the defined benefit pension system receive the replacement rate of their individual pensionable income as a pension. A precondition for this is that the Executive Board member in question served on the Executive Board for at least three years and was reappointed at least once. As with the defined contribution pension system, the pensionable income is determined and regularly reviewed by the Supervisory Board. The replacement rate depends upon the Executive Board member's term of office and the number of reappointments and amounts to a maximum of 50 per cent. Payout terms and vesting rules are in line with those applicable for the defined contribution pension system. From among the active members of the Executive Board, the defined benefit pension system applies to Thomas Book.

#### Early retirement pension

Members of the Executive Board who have a defined benefit pension are entitled to an early retirement pension if the company does not extend their contract, unless the reasons for this are attributable to the Executive Board member or would justify termination without notice of the Executive Board member's contract. The amount of the early retirement pension is calculated in the same way as the retirement benefits – by applying the applicable replacement rate to the pensionable income. Once again, a precondition is that the Executive Board member served on the Executive Board for at least three years and was reappointed at least once. Members of the Executive Board who have a defined contribution pension are not eligible for an early retirement pension.

#### Permanent incapacity to work and death benefits

In the event that a member of the Executive Board becomes permanently incapable of working, the company is entitled to retire him or her. Executive Board members are deemed to be permanently incapable of working if they are unable to perform their professional activities for more than six months, and if they are not expected to regain their capacity to work within a further six months. In such cases, those Executive Board members who have a defined benefit pension plan receive the amount calculated by applying the applicable replacement rate to the pensionable income. Executive Board members with a defined contribution pension plan receive the plan assets that have accrued at the time when the benefits fall due, plus a supplement corresponding to the full annual pension contribution that would have been due in the year in which the Executive Board member left the company's service, multiplied by the number of years between the time at which the benefits fell due and the Executive Board member reaching the age of 60.

If an Executive Board member dies, his or her spouse receives 60 per cent and each dependent child receives 10 per cent of the above amount (25 per cent for full orphans), up to a maximum of 100 per cent of the pension contribution.

#### Transitional payments

In the event that an Executive Board member becomes permanently incapable of working, the defined benefit pension agreements for Executive Board members provide for a transitional payment. The amount of this payment corresponds to the target variable remuneration (performance bonus and performance shares) in the year in which the event triggering the benefits occurs. It is paid out in two tranches in the two following years. If an Executive Board member dies, his or her spouse receives 60 per cent of the transitional payment.

### Share ownership guidelines

Deutsche Börse's share ownership guidelines are a key element in order ensure that remuneration for the Executive Board is aligned with the long-term corporate performance of Deutsche Börse AG, as provided for by the strategy. Under these guidelines, members of the Executive Board are obliged to continuously hold a multiple of their average basic remuneration in Deutsche Börse AG shares during their term of office. A multiple of 3 applies to the CEO, and a multiple of 2 to the Deputy CEO and to ordinary Executive Board members. Shares belonging to the following three categories are used to assess compliance with the share ownership guidelines: (1) shares purchased from the performance bonus; (2) shares received under the allocation of performance shares; and (3) shares held in private ownership. In each case, such shareholdings must be built up over a three-year period. The shareholdings of Mr Pottmeyer and Ms Stars were evaluated as at 31 December 2018 and were found to be compliant with the share ownership guidelines. Such compliance shall be evaluated on 31 December 2020 with regard to the shareholdings of Mr Weimer and on 31 December 2021 at the latest with regard to the shareholdings of Mr Böhm, Mr Book and Mr Leithner. For further details regarding the procedures for these share purchases, please refer to the [§](#) section "Automated share purchase designed to fulfil the plan conditions as well as the share ownership guidelines".

### Additional elements of the remuneration system for the Executive Board

#### Severance payments

In the event that an Executive Board member's contract of service is terminated early for a reason other than good cause, any payments made to the Executive Board member may not exceed the remuneration for the residual term of his or her contract of service, and may also not exceed the value of two total annual remuneration payments (severance cap). The payment is calculated on the basis of the total remuneration for the past financial year and, where appropriate, the expected total remuneration for the current financial year. Performance bonus claims and performance shares that have been granted will lapse if the company has good cause for an extraordinary termination of the Executive Board member's employment or if an Executive Board member terminates his or her contract before the end of the performance period without good cause and without reaching a mutual agreement.

#### Examination of appropriateness of Executive Board remuneration (peer-group comparison)

The Supervisory Board conducts a horizontal and vertical peer-group comparison to examine the appropriateness of Executive Board remuneration on a regular basis (at least every two years). For this purpose, the Supervisory Board may seek the advice of an external expert who is independent from the Executive Board and from the company. The horizontal comparison is based on a relevant peer group of reference companies; this may include DAX constituents, international exchange operators, national and international financial institutions, financial infrastructure providers or similar groups. When selecting peer groups for comparison, the Supervisory Board will consider, in particular, that such companies are comparable in size to Deutsche Börse AG. The vertical comparison concerns the relationship between Executive Board remuneration to the remuneration levels of senior management (comprising two management levels below the Executive Board) and of the entire workforce, as well as the development of the various salary levels over a two-year period. In this respect, the Supervisory Board considers the remuneration levels compared to employees of Deutsche Börse AG, as well as to the overall workforce of Deutsche Börse Group. The Supervisory Board takes the results of this examination into account when setting target remuneration for members of the Executive Board, and thus also ascertains that Executive Board remuneration is appropriate.

#### Compensation for lapsed remuneration claims against a previous employer

Where a member of the Executive Board has demonstrably and permanently lost claims for remuneration against a previous employer (for example, long-term variable remuneration granted or pension commitments), the Supervisory Board may agree to compensation – in the form of a one-off payment, by granting additional variable remuneration during the first year of the Executive Board service contract, or a one-off contribution to the pension agreement. Any such grants must be disclosed separately in the remuneration report.

#### Automated share purchase designed to fulfil the plan conditions as well as the share ownership guidelines

For members of the Executive Board, the share purchase agreed upon under the Performance Bonus Plan and the Performance Share Plan, as well as any share purchase from private funds, must be settled by a service provider appointed by Deutsche Börse AG and assigned by the beneficiary; the service provider invests the investment amounts independently, i.e. without any influence from the beneficiary or the company, on behalf of the beneficiary into Deutsche Börse AG shares. The share purchase takes place during the first four trading days (consecutive calendar days) in June every year.

#### Determining maximum remuneration

The annual remuneration – comprising fixed salary, variable remuneration components and pension expenses – is capped at an aggregate gross amount of €9.5 million (total cap) for each Executive Board member. Ancillary benefits are not included in this amount. Although these are subject to fluctuation, no extraordinary fluctuations are expected and therefore it is not necessary to include them in the total cap. In the interest of shareholders, the company will continue to provide competitive incentives for good personal performance and the company's long-term sustainable success to Executive Board members, whilst preventing any unintended excesses which might otherwise be possible.

#### Maximum remuneration adjustment as of the 2020 financial year

In future, not only the annual remuneration – comprising fixed salary, variable remuneration components and pension expenses – but also ancillary benefits will be subject to the cap of the total remuneration at an aggregate gross amount of €9.5 million (total cap).

#### Change of control

If an Executive Board member is asked to stand down within six months of a change of control, he or she is entitled to a severance payment equal to two total annual remuneration payments or the value of the residual term of his or her contract of service, where this is less than two years. This entitlement may be increased to 150 per cent of the severance payment. If an Executive Board member resigns within six months of the change of control taking effect because his or her position as a member of the Executive Board is negatively impacted to a significant degree as a result of the change of control, the Supervisory Board may decide at its discretion whether to grant a severance payment in the above-mentioned amount. In the case of a change of control, all current performance periods shall end on the day on which the contract of service is terminated. The corresponding performance shares will be settled early.

#### Change of control adjustments as of the 2020 financial year

The provision for a change of control and a resulting severance payment are cancelled without substitution.

#### Term of Executive Board service contracts

The term of service contracts for Executive Board members depends on the duration of appointment. Generally, a multi-year term of office is envisaged, taking the provisions on flexible age limit into

consideration (see the [“Flexible age limit and term of office”](#) section). The Supervisory Board thus considers the threshold as per section 84 of the AktG, particularly the maximum term of office of five years. In accordance with recommendation B.3 of the GCGC 2020, the term for first-time appointments should not exceed three years. Service contracts do not provide for ordinary termination, in accordance with German public-company law, whereby the right to terminate without notice, for good cause, remains unaffected. The service contract is also terminated early in the event of the appointment being terminated early, unless specifically agreed otherwise.

#### Post-contractual non-compete clause

A post-contractual non-compete clause applies to members of Deutsche Börse AG's Executive Board. This means that the Executive Board members in question are contractually prohibited from acting for a competing company, or from undertaking competing activities, for one year following the end of their service. Compensation of 75 per cent of the member's final fixed remuneration and 75 per cent of his or her final cash bonus is payable during the non-compete period. Pension agreement benefits are offset against the compensation. In addition, 50 per cent of other earnings are deducted if these – together with the compensation – exceed the Executive Board member's final remuneration. The company may waive the post-contractual non-compete clause before the Executive Board member's contract of service ends.

*Adjustments to the post-contractual non-compete clause from the 2020 financial year onwards*  
Going forward, any severance payments will also be offset against compensation, in addition to pension agreement benefits.

#### Sideline activities

Additional appointments assumed, or sideline activities entered into, by individual members of the Executive Board, require the approval of the full Executive Board and the Chairman of the Supervisory Board or, in certain cases, of the full Supervisory Board (which has delegated granting such approval to the Nomination Committee). If a member of the Executive Board receives any remuneration for an office performed at an affiliate of Deutsche Börse AG, this remuneration is offset against the Executive Board member's entitlement to remuneration from Deutsche Börse AG.

#### *Recovery or reduction of variable remuneration (clawback) from the 2020 financial year onwards*

By virtue of the service contract for Executive Board members, in events of serious misconduct, the Supervisory Board is entitled to demand repayment of variable remuneration under the Performance Bonus Plan or the Performance Share Plan, in full or in part, or to reduce variable remuneration not yet disbursed accordingly (compliance clawback). Any such clawback shall be limited to the calendar year during which the reason has occurred. The Supervisory Board shall be entitled to assert a clawback claim even after an Executive Board member has left the company, for a period of up to two years following termination of the service contract. Any claims for damages remain unaffected by the assertion of any clawback of variable remuneration.

#### Remuneration system for the Supervisory Board

Remuneration for the Supervisory Board is a fixed remuneration only, plus an attendance fee for meetings, in accordance with suggestion G.18 sentence 1 of the GCGC 2020. The members of the Supervisory Board receive fixed annual remuneration of €70,000. In accordance with section 5.4.6 (1) sentence 2 of the GCGC 2017 (recommendation G.17 of the GCGC 2020), remuneration is increased for the Chairman of the Supervisory Board and for his or her deputy, as well as for chairs and members



of committees. The remuneration for the Chairman of the Supervisory Board amounts to €170,000; the remuneration for the Deputy Chairman to €105,000. Members of Supervisory Board committees receive additional fixed annual remuneration of €30,000 for each committee position they hold. The relevant amount for members of the Audit Committee is €35,000. The remuneration paid to committee chairs is €40,000, or €60,000 in the case of the Chairman of the Audit Committee. If a Supervisory Board member belongs to several Supervisory Board committees, only their work on a maximum of two committees (the two most highly remunerated ones) is remunerated. Supervisory Board members who only hold office for part of the financial year receive one-twelfth of the fixed annual remuneration and, if applicable, of the remuneration payable for their membership of committees, for each month or part-month in which they are members. The remuneration for any financial year is due and payable as a one-off payment after the General Meeting that accepts the consolidated financial statements for the relevant financial year or decides on their approval.

Members of the Supervisory Board or a Supervisory Board committee receive an attendance fee of €1,000 for each Board or committee meeting that they attend in person, either as a member or as a guest. Where two or more meetings are held on the same day or on consecutive days, the attendance fee is only paid once.

The Supervisory Board examines, on a regular basis, whether its members' remuneration is appropriate, given their tasks and the situation of the company. For this purpose, the Supervisory Board shall conduct a horizontal market comparison, and may seek the advice of an independent external expert. Depending upon the result of the comparative analysis and the Supervisory Board's assessment of this result, the Supervisory Board may, jointly with the Executive Board, submit a proposal to the Annual General Meeting for adjustments to Supervisory Board remuneration. Irrespective of such a proposal the Annual General Meeting passes a resolution on the remuneration of Supervisory Board members (including the underlying remuneration system) every four years at the latest; the relevant resolution may also confirm the current remuneration.

The structure of Supervisory Board remuneration, providing for fixed remuneration only, strengthens the Board's independence and provides for a counterbalance to the structure of Executive Board remuneration, which is mainly variable and aligned with Deutsche Börse AG's growth strategy. Supervisory Board remuneration therefore contributes to the implementation of the business strategy, and thus promotes Deutsche Börse AG's long-term development.

#### Planned adjustments to Supervisory Board remuneration from the 2020 financial year onwards

The Supervisory Board has carried out a horizontal comparison of the existing components of Supervisory Board remuneration; this exercise was prepared by the Nomination Committee and the Supervisory Board was supported in its examination by an independent external expert.

Based on this market comparison, the Supervisory Board and the Executive Board resolved to propose to the ordinary Annual General Meeting of Deutsche Börse AG on 19 May 2020 that individual components of Supervisory Board remuneration be adjusted by way of amendments to the Articles of Association. Based on the proposed adjustments, members of the Supervisory Board will in future receive fixed annual remuneration of €85,000. The remuneration for the Chairman of the Supervisory Board is proposed to be raised to €220,000; the remuneration for the Deputy Chairman to €125,000. The additional remuneration for the Chairman of the Audit Committee is proposed to be raised to €75,000. The additional remuneration for chairs of the other committees, as well as for membership in all committees, is set to remain unchanged. The remaining rules governing remuneration for members of Deutsche Börse AG's Supervisory Board will also remain unchanged.

The Supervisory Board believes that the structure of Supervisory Board remuneration, providing for fixed remuneration only (plus attendance fees) already provides for a sensible counterbalance to the growth-oriented Executive Board remuneration, and thus contributes to the sustainable long-term development of Deutsche Börse AG. Fundamentally, remuneration for the Supervisory Board has been unchanged since 2012. The proposed amendments duly account for the further increasing importance of the Supervisory Board's supervision and advisory duties, in the context of rising complexity of Deutsche Börse Group's business activities.

## Remuneration report for the Executive Board and the Supervisory Board

### Remuneration report for the Executive Board

#### Loans to Executive Board members

The company did not grant any loans or advances to members of the Executive Board during financial year 2019, and there are no loans or advances from previous years to members of the Executive Board.

#### Payments to former members of the Executive Board

Former members of the Executive Board or their surviving dependants received payments of €9.7 million in the year under review (2018: €4.4 million). The actuarial present value of the pension obligations as at the reporting date was €84.8 million (31 December 2018: €67.5 million).

#### Benefits in connection with the termination of Executive Board appointments

The former Deputy CEO, Mr Preuss, has resigned from his appointment as at 31 October 2018. His service contract ended on 31 May 2019. For the remaining term of his service contract in 2019 (1 January until 31 May 2019), he received the following remuneration:

- Fixed remuneration: €333,300
- Performance bonus: €584,500
- Performance shares (full year 2019): 6,473
- Ancillary benefits: €14,400

With regard to Mr Preuss, the company has decided to waive the post-contractual non-compete clause.

#### Remuneration of former CEO Carsten Kengeter

The former Chief Executive Officer, Carsten Kengeter, who stepped down with effect from 31 December 2017, participated in the Co-Performance Investment Plan (CPIP) that was resolved by the Supervisory Board in 2015. In December 2015, during the investment period provided for in the CPIP, he used private funds to invest €4,500,000 in Deutsche Börse AG shares (investment shares). In return for his acquisition of the investment shares, Mr Kengeter was granted 68,987 co-performance shares in the company. The performance period for the co-performance shares commenced on 1 January 2015 and ended on 31 December 2019. Given that Mr Kengeter only worked for Deutsche Börse AG for three years of the relevant five-year performance period in accordance with the CPIP, the initial number of co-performance shares was reduced to 41,392. Co-performance shares are basically subject to the same financial criteria as for performance shares, which are explained in the [§ 4](#) section "Principles governing the PSP and assessing target achievement for performance shares". Thus the performance of the co-performance shares is measured on the basis of (i) Deutsche Börse AG's net income growth and (ii) the ratio of the change in TSR for Deutsche Börse shares to that for the companies included in the STOXX® Europe 600 Financials index. The equivalent of performance shares is due for disbursement in three stages: Mr Kengeter received the first advance payment of €2.1 million on 31 March 2019, with the

second advance payment due on 31 March 2020 and the final disbursement on 31 March 2021. Based on a pro-rata entitlement of 60 per cent (i.e. three-fifths) for Mr Kengeter's term of office, less than the first advance payment disbursed on 31 March 2019, the company has recognised a provision amounting to €11.0 million.

10,014 performance shares were retrospectively granted to Mr Kengeter for the period from 1 April to 31 December 2018, given his entitlement for performance shares without deduction.

Prior to Mr Kengeter's resignation in 2017, no agreement had been concluded with him for the implementation of the overall cap of an aggregate gross remuneration of €9.5 million, as outlined in the ["Caps on the total amount of remuneration"](#) section.

#### Amount of Executive Board remuneration

The following tables contain the figures for the individual Executive Board remuneration components mentioned above for financial years 2019 and 2018. The remuneration awarded to each Executive Board member in accordance with section 4.2.5 (3) of the German Corporate Governance Code is shown in the ["Benefits granted"](#) and ["Benefits received"](#) tables. The information disclosed in accordance with section 314 of the HGB is shown in the ["Benefits received"](#) tables.

#### Retirement benefits

	Pensionable income 2019 € thous.	Replacement rate		Present value/defined benefit obligation		Pension expense	
		as at 31 Dec 2019 %	as at 31 Dec 2018 %	as at 31 Dec 2019 € thous.	as at 31 Dec 2018 € thous.	2019 € thous.	2018 € thous.
Defined benefit system							
Thomas Book	500.0	50.0	45.0	6,992.8	4,829.0	384.9	356.1 <sup>1)</sup>
Total	500.0	50.0	45.0	6,992.8	4,829.0	384.9	356.1
Defined contribution system							
Theodor Weimer	1,000.0	40.0	40.0	957.3	560.8	466.2	677.8
Christoph Böhm	500.0	48.0	48.0	513.3	114.1	419.6	147.9
Stephan Leithner	500.0	48.0	48.0	643.7	256.5	406.1	295.2
Gregor Pottmeyer	500.0	48.0	48.0	4,162.4	3,517.8	297.3	300.1
Hauke Stars	500.0	40.0	40.0	2,312.6	1,918.2	274.4	269.6
Total	3,000.0	224.0	224.0	8,589.3	6,367.4	1,863.6	1,690.6

1) Until 30 June 2018, Thomas Book was remunerated by Eurex Frankfurt AG. Since 1 July 2018, Deutsche Börse AG pays out the total amount of Mr Book's remuneration. Thus, Deutsche Börse AG contributes €178,100 to retirement provisions for Thomas Book

2019 total expense for share-based payments  
(Prior-year figures in brackets)

	Expense recognised (total) € thous.	Carrying amount as at the reporting date (total) € thous.
Theodor Weimer	1,553.6	2,141.8
	(588.3)	(588.3)
Christoph Böhm	287.9	330.2
	(42.2)	(42.2)
Thomas Book	396.9	513.9
	(116.9)	(116.9)
Stephan Leithner	430.3	557.0
	(126.7)	(126.7)
Gregor Pottmeyer	2,191.4	4,055.8
	(1,200.7)	(1,864.4)
Hauke Stars	2,021.8	3,742.1
	(1,107.9)	(1,720.3)
Andreas Preuss <sup>1)</sup>	–	–
	(4,789.7)	(5,620.9)
Jeffrey Tessler <sup>2)</sup>	–	–
	(3,801.7)	(4,461.4)
<b>Total</b>	<b>6,881.9</b>	<b>11,340.8</b>
	<b>(11,774.1)</b>	<b>(14,541.1)</b>

1) Member of the Executive Board until 31 October 2018; expense recognised / carrying amount as at the reporting date relate to the full financial year 2018

2) Member of the Executive Board until 30 June 2018; expense recognised / carrying amount as at the reporting date relate to the full financial year 2018

## Number of phantom shares

		Number of phantom shares on the grant date	Adjustments of number of phantom shares since the grant date	Number of phantom shares as at 31 Dec. 2019
Theodor Weimer	Tranche 2019	11,998	5,602	17,600
	Tranche 2018	13,353	14,812	28,165
	Total 2018 to 2019 tranches			45,765
Christoph Böhm	Tranche 2019	5,168	2,414	7,582
	Tranche 2018	959	991	1,950
	Total 2018 to 2019 tranches			9,532
Thomas Book	Tranche 2019	4,769	2,221	6,990
	Tranche 2018	2,654	2,743	5,397
	Total 2018 to 2019 tranches			12,388
Stephan Leithner	Tranche 2019	5,168	2,414	7,582
	Tranche 2018	2,876	2,972	5,848
	Total 2018 to 2019 tranches			13,430
Gregor Pottmeyer	Tranche 2019	5,168	2,414	7,582
	Tranche 2018	5,752	5,944	11,696
	Tranche 2017	7,464	7,548	15,012
	Tranche 2016	7,148	8,063	15,211
	Total 2016 to 2019 tranches			49,501
Hauke Stars	Tranche 2019	4,769	2,226	6,995
	Tranche 2018	5,307	5,484	10,791
	Tranche 2017	6,887	6,965	13,852
	Tranche 2016	6,595	7,439	14,034
	Total 2016 to 2019 tranches			45,672
	Total 2016 to 2019 tranches			176,288

## Benefits granted (part 1)

	Theodor Weimer (CEO)				Dr Christoph Böhm (CIO/COO)			
	2019 € thous.	2019 (min) € thous.	2019 (max) € thous.	2018 € thous.	2019 € thous.	2019 (min) € thous.	2019 (max) € thous.	2018 € thous.
Fixed remuneration	1,500.0	1,500.0	1,500.0	1,500.0	720.0	720.0	720.0	120.0
Ancillary benefits	26.8	26.8	26.8	22.9	67.1	67.1	67.1	11.4
<b>Total</b>	<b>1,526.8</b>	<b>1,526.8</b>	<b>1,526.8</b>	<b>1,522.9</b>	<b>787.1</b>	<b>787.1</b>	<b>787.1</b>	<b>131.4</b>
One-year variable remuneration								
Cash component of performance bonus (50%)	1,100.0	0.0	2,200.0	1,100.0	560.0	0.0	186.6	93.3
Multi-year variable remuneration	2,400.0	0.0	n/a	2,400.0	1,120.0	0.0	n/a	186.6
Share component performance bonus (50%, 3-year holding period) <sup>1)</sup>	1,100.0	0.0	n/a	1,100.0	560.0	0.0	n/a	93.3
Performance shares (5-year term) <sup>2)</sup>	1,300.0	0.0	n/a	1,300.0	560.0	0.0	n/a	93.3
<b>Total</b>	<b>5,026.8</b>	<b>1,526.8</b>	<b>n/a</b>	<b>5,022.9</b>	<b>2,467.1</b>	<b>787.1</b>	<b>n/a</b>	<b>411.3</b>
Pension expense	466.2	466.2	466.2	677.8	419.6	419.6	419.6	147.9
<b>Total remuneration</b>	<b>5,493.0</b>	<b>1,993.0</b>	<b>9,500.0<sup>3)</sup></b>	<b>5,700.7</b>	<b>2,886.7</b>	<b>1,206.7</b>	<b>9,500.0<sup>3)</sup></b>	<b>559.2</b>

## Benefits granted (part 2)

	Thomas Book				Stephan Leithner			
	2019 € thous.	2019 (min) € thous.	2019 (max) € thous.	2018 € thous.	2019 € thous.	2019 (min) € thous.	2019 (max) € thous.	2018 € thous.
Fixed remuneration	650.0	650.0	650.0	325.0	720.0	720.0	720.0	360.0
Ancillary benefits	31.6	31.6	31.6	15.7 <sup>4)</sup>	19.3	19.3	19.3	5.7
<b>Total</b>	<b>681.6</b>	<b>681.6</b>	<b>681.6</b>	<b>340.7</b>	<b>739.3</b>	<b>739.3</b>	<b>739.3</b>	<b>365.7</b>
One-year variable remuneration								
Cash component of performance bonus (50%)	516.7	0.0	516.6	258.3	560.0	0.0	560.0	280.0
Multi-year variable remuneration	1,033.4	0.0	n/a	516.6	1,120.0	0.0	n/a	560.0
Share component performance bonus (50%, 3-year holding period) <sup>1)</sup>	516.7	0.0	n/a	258.3	560.0	0.0	n/a	280.0
Performance shares (5-year term) <sup>2)</sup>	516.7	0.0	n/a	258.3	560.0	0.0	n/a	280.0
<b>Total</b>	<b>2,231.7</b>	<b>681.6</b>	<b>n/a</b>	<b>1,115.6</b>	<b>2,419.3</b>	<b>739.3</b>	<b>n/a</b>	<b>1,205.7</b>
Pension expense	384.9	384.9	384.9	356.1	406.1	406.1	406.1	295.2
<b>Total remuneration</b>	<b>2,616.6</b>	<b>1,066.5</b>	<b>9,500.0<sup>3)</sup></b>	<b>1,471.7</b>	<b>2,825.4</b>	<b>1,145.4</b>	<b>9,500.0<sup>3)</sup></b>	<b>1,500.9</b>

## Benefits granted (part 3)

	Gregor Pottmeyer (CFO)				Hauke Stars (Director of Labour Relations)			
	2019 € thous.	2019 (min) € thous.	2019 (max) € thous.	2018 € thous.	2019 € thous.	2019 (min) € thous.	2019 (max) € thous.	2018 € thous.
Fixed remuneration	720.0	720.0	720.0	720.0	650.0	650.0	650.0	650.0
Ancillary benefits	34.5	34.5	34.5	29.2	30.1	30.1	30.1	24.9
<b>Total</b>	<b>754.5</b>	<b>754.5</b>	<b>754.5</b>	<b>749.2</b>	<b>680.1</b>	<b>680.1</b>	<b>680.1</b>	<b>674.9</b>
One-year variable remuneration								
Cash component of performance bonus (50%)	560.0	0.0	1,120.0	560.0	516.7	0.0	1,033.4	516.7
Multi-year variable remuneration	1,120.0	0.0	n/a	1,120.0	1,033.4	0.0	n/a	1,033.4
Share component performance bonus (50%, 3-year holding period) <sup>1)</sup>	560.0	0.0	n/a	560.0	516.7	0.0	n/a	516.7
Performance shares (5-year term) <sup>2)</sup>	560.0	0.0	n/a	560.0	516.7	0.0	n/a	516.7
<b>Total</b>	<b>2,434.5</b>	<b>754.5</b>	<b>n/a</b>	<b>2,429.2</b>	<b>2,230.2</b>	<b>680.1</b>	<b>n/a</b>	<b>2,225.0</b>
Pension expense	297.3	297.3	297.3	300.1	274.4	274.4	274.4	269.6
<b>Total remuneration</b>	<b>2,731.8</b>	<b>1,051.8</b>	<b>9,500.0<sup>3)</sup></b>	<b>2,729.3</b>	<b>2,504.6</b>	<b>954.5</b>	<b>9,500.0<sup>3)</sup></b>	<b>2,494.6</b>

1) The level of target achievement is capped at 200 per cent. No cap on the share price performance – therefore, no maximum can be stated (n.m.). For more information, please refer to the ["Combined corporate governance statement and corporate governance report"](#) section

2) The target achievement rates for net income and total shareholder return, and for the maximum number of performance shares are all capped at 250 per cent. No cap on the share price performance – therefore, no maximum can be stated for the individual remuneration components (no max.). For more information, please refer to the ["Combined corporate governance statement and corporate governance report"](#) section

3) The total remuneration (excluding ancillary benefits) is capped at €9.5 million

4) Until 30 June 2018, Thomas Book was remunerated by Eurex Frankfurt AG. Since 1 July 2018, Deutsche Börse AG pays out the total amount of Mr Book's remuneration. Thus, Deutsche Börse AG contributes €178,100 to retirement provisions for Thomas Book

## Benefits received (part 1)

	Theodor Weimer (CEO)		Dr Christoph Böhm (CIO/COO)		Thomas Book	
	2019 € thous.	2018 € thous.	2019 € thous.	2018 € thous.	2019 € thous.	2018 € thous.
Fixed remuneration	1,500.0	1,500.0	720.0	120.0	650.0	325.0
Ancillary benefits <sup>1)</sup>	26.8	22.9	67.1	11.4	31.6	15.7
<b>Total</b>	<b>1,526.8</b>	<b>1,522.9</b>	<b>787.1</b>	<b>131.4</b>	<b>681.6</b>	<b>340.7</b>
One-year variable remuneration Cash component of performance bonus (50%)	1,515.4	2,117.5	823.5	155.6	693.7	439.2
Multi-year variable remuneration	1,515.4	2,117.5	823.5	155.6	693.7	439.2
Share component performance bonus (50%, 3-year holding period)	1,515.4	2,117.5	823.5	155.6	693.7	439.2
Performance shares (5-year term)	-	-	-	-	-	-
<b>Total</b>	<b>4,557.6</b>	<b>5,757.9</b>	<b>2,434.1</b>	<b>442.6</b>	<b>2,069.0</b>	<b>1,219.1</b>
Pension expense	466.2	677.8	419.6	147.9	384.9	356.1 <sup>4)</sup>
Total remuneration (German Corporate Governance Code) <sup>2)</sup>	5,023.8	6,435.7	2,853.7	590.5	2,453.9	1,575.2
Plus performance shares	1,300.0	1,300.0	560.0	93.3	516.7	258.3
Less variable share component	-	-	-	-	-	-
Less pension expense	- 466.2	- 677.8	- 419.6	- 147.9	- 384.9	- 356.1
<b>Total remuneration (section 314 of the HGB)</b>	<b>5,857.6</b>	<b>7,057.9</b>	<b>2,994.1</b>	<b>535.9</b>	<b>2,585.7</b>	<b>1,477.4</b>
Number of phantom shares (no-par value share) <sup>3)</sup>	11,998	13,353	5,168	959	4,769	2,654



## Benefits received (part 2)

	Stephan Leithner		Gregor Pottmeyer (CFO)		Hauke Stars (Director of Labour Relations)		Total <sup>5)</sup>	
	2019 € thous.	2018 € thous.	2019 € thous.	2018 € thous.	2019 € thous.	2018 € thous.	2019 € thous.	2018 € thous.
Fixed remuneration	720.0	360.0	720.0	720.0	650.0	650.0	4,960.0	3,675.0
Ancillary benefits <sup>1)</sup>	19.3	5.7	34.5	29.2	30.1	24.9	209.4	109.8
<b>Total</b>	<b>739.3</b>	<b>365.7</b>	<b>754.5</b>	<b>749.2</b>	<b>680.1</b>	<b>674.9</b>	<b>5,169.4</b>	<b>3,784.8</b>
One-year variable remuneration								
Cash component of performance bonus (50%)	771.5	476.0	732.2	856.8	643.4	759.5	5,179.7	4,804.6
Multi-year variable remuneration	771.5	476.0	732.2	856.8	643.4	759.5	5,179.7	4,804.6
Share component performance bonus (50%, 3-year holding period)	771.5	476.0	732.2	856.8	643.4	759.5	5,179.7	4,804.6
Performance shares (5-year term)	–	–	–	–	–	–	–	–
<b>Total</b>	<b>2,282.3</b>	<b>1,317.7</b>	<b>2,218.9</b>	<b>2,462.8</b>	<b>1,966.9</b>	<b>2,193.9</b>	<b>15,528.8</b>	<b>13,394.0</b>
Pension expense	406.1	295.2	297.3	300.1	274.4	269.6	2,248.5	2,046.7
<b>Total remuneration (German Corporate Governance Code)<sup>2)</sup></b>	<b>2,688.4</b>	<b>1,612.9</b>	<b>2,516.2</b>	<b>2,762.9</b>	<b>2,241.3</b>	<b>2,463.5</b>	<b>17,777.3</b>	<b>15,440.7</b>
Plus performance shares	560.0	280.0	560.0	560.0	516.7	516.7	4,013.4	3,008.3
Less variable share component	–	–	–	–	–	–	–	–
Less pension expense	– 406.1	– 295.2	– 297.3	– 300.1	– 274.4	– 269.6	– 2,248.5	– 2,046.7
<b>Total remuneration (section 314 of the HGB)</b>	<b>2,842.3</b>	<b>1,597.7</b>	<b>2,778.9</b>	<b>3,022.8</b>	<b>2,483.6</b>	<b>2,710.6</b>	<b>19,542.2</b>	<b>16,402.3</b>
Number of phantom shares (no-par value share) <sup>3)</sup>	5,168	2,876	5,168	5,752	4,769	5,307	37,040	30,901

1) Ancillary benefits (other benefits) comprise salary components such as taxable contributions towards private pensions, company car arrangements, travel arrangements, and expenses for tax and legal advice

2) The total remuneration (excluding ancillary benefits) is capped at €9.5 million

3) The number of prospective performance shares for the performance period determined at the 2019 grant date is calculated by dividing the target amount by the average share price (Xetra® closing price) for Deutsche Börse shares in December 2018 (€108.36)

4) Until 30 June 2018, Thomas Book was remunerated by Eurex Frankfurt AG. Since 1 July 2018, Deutsche Börse AG pays out the total amount of Mr Book's remuneration. Thus, Deutsche Börse AG contributes €178,100 to retirement provisions for Thomas Book

5) Prior-year figures were adjusted due to Messrs Andreas Preuss and Jeffrey Tessler leaving the company; thus, they do not match the figures published in the previous year

## Remuneration report for the Supervisory Board

The members of the Supervisory Board receive fixed annual remuneration of €70,000. The remuneration for the Chairman of the Supervisory Board amounts to €170,000; the remuneration for the Deputy Chairman to €105,000. Members of Supervisory Board committees receive additional fixed annual remuneration of €30,000 for each committee position they hold. The relevant amount for members of the Audit Committee is €35 thousand. The remuneration paid to committee chairs is €40 thousand, or €60 thousand in the case of the Chairman of the Audit Committee. If a Supervisory Board member belongs to several Supervisory Board committees, only their work on a maximum of two committees (the two most highly remunerated ones) is remunerated. Supervisory Board members who only hold office for part of the financial year receive one-twelfth of the fixed annual remuneration and, if applicable, of the remuneration payable for their membership of committees, for each month or part-month in which they are members.

Members of the Supervisory Board or a Supervisory Board committee receive an attendance fee of €1 thousand for each Board or committee meeting that they attend in person, either as a member or as a guest. Where two or more meetings are held on the same day or on consecutive days, the attendance fee is only paid once.

### Remuneration paid to members of the Supervisory Board for advisory and agency services

No agreements for advisory and agency services had been entered into in the reporting period with members of the Supervisory Board, or with companies that employ members of the Supervisory Board of Deutsche Börse AG or in which Supervisory Board members hold an interest.

## Supervisory Board remuneration<sup>1)</sup>

	2019	2018	2019 <sup>4)</sup> € thous.	2018 <sup>4)</sup> € thous.
Joachim Faber (Chairman)	full year	full year	257.0	260.0
Nadine Absenger	full year	16 May – 31 Dec	114.0	95.0
Ann-Kristin Achleitner <sup>2)</sup>	1 Jan - 8 May	full year	43.7	118.5
Markus Beck	full year	15 Aug - 31 Dec	147.0	55.8
Richard Berliand <sup>2)</sup>	1 Jan - 8 May	full year	62.3	168.3
Karl-Heinz Flöther	full year	full year	146.0	146.0
Marion Fornoff	–	1 Jan – 15 Aug	–	84.2
Hans-Peter Gabe	–	1 Jan – 15 Aug	–	86.8
Craig Heimark	–	1 Jan – 16 May	–	45.7
Martin Jetter	full year	16 May – 31 Dec	143.7	89.7
Susann Just-Marx	full year	15 Aug - 31 Dec	139.0	53.2
Achim Karle	full year	28 Aug - 31 Dec	138.0	53.2
Cornelis Johannes Nicolaas Kruijssen	full year	15 Aug - 31 Dec	139.0	53.2
Barbara Lambert	full year	16 May – 31 Dec	171.0	114.7
Monica Mächler	–	1 Jan – 16 May	–	61.3
Joachim Nagel	full year	16 May – 31 Dec	156.0	102.7
Florian Rodeit	–	16 May – 15 Aug	–	45.3
Carsten Schäfer	full year	28 Aug - 31 Dec	138.0	53.2
Erhard Schipporeit	–	1 Jan – 16 May	–	71.7
Charles G. T. Stonehill <sup>3)</sup>	8 May – 31 Dec	–	69.7	–
Clara-Christina Streit <sup>3)</sup>	8 May – 31 Dec	–	68.7	–
Jutta Stuhlfauth (Deputy Chairwoman)	full year	full year	181.0	172.7
Gerd Tausendfreund	full year	16 May – 31 Dec	107.0	72.7
Johannes Witt	–	1 Jan – 16 May	–	61.3
Amy Yip	full year	full year	129.5	118.5
<b>Total</b>			<b>2,350.6</b>	<b>2,183.7</b>

1) The recipient of the remuneration is determined individually by the members of the Supervisory Board

2) Left the Supervisory Board on 8 May 2019

3) Elected to the Supervisory Board on 8 May 2019

4) Remuneration including individual attendance fee

## Combined corporate governance statement and corporate governance report

Deutsche Börse Group assigns great importance to the principles of good corporate governance and control. In this statement, we report on corporate governance at Deutsche Börse AG in accordance with section 3.10 of the Deutscher Corporate Governance Kodex (the "Code", German Corporate Governance Code). Moreover, this statement contains the corporate governance statement pursuant to sections 289f and 315d of the Handelsgesetzbuch (HGB, German Commercial Code).

### Declaration of Compliance pursuant to section 161 of the Aktiengesetz (AktG, German Stock Corporation Act)

On 10 December 2019, the Executive Board and Supervisory Board of Deutsche Börse AG issued the following Declaration of Conformity:

"Declaration by the Executive Board and the Supervisory Board of Deutsche Börse AG regarding the German Corporate Governance Code in accordance with section 161 of the German Stock Corporation Act

The following Declaration of Conformity refers to the current version of the German Corporate Governance Code (GCGC) of 7 February 2017 as published in the Federal Gazette on 24 April 2017.

The Executive Board and the Supervisory Board of Deutsche Börse AG declare that the recommendations of the GCGC have been met almost completely and will be met with only few deviations. For details, please see below:

#### 1. Agreement of severance payment caps when concluding Executive Board contracts (no. 4.2.3 (4) GCGC)

Severance payment caps agreed upon in all current contracts with the members of the Executive Board complied and will continue to comply with recommendation no. 4.2.3 (4) GCGC. As in the past, however, the Supervisory Board reserves the right to deviate from no. 4.2.3 (4) GCGC in the future under certain circumstances. The Supervisory Board is of the opinion that a deviation may become necessary in extraordinary cases.

#### 2. Caps on total amount of remuneration (no. 4.2.3 (2) (sentence 6) GCGC) and disclosure in the remuneration report (no. 4.2.5 (3) GCGC)

No. 4.2.3 (2) (sentence 6) GCGC recommends that the amount of management compensation shall be capped, both as regards variable components and in the aggregate. Deutsche Börse AG deviated and will deviate from this recommendation.

The annual remuneration, comprising fixed and variable remuneration components and pension benefits, is capped at EUR 9.5 million (total cap) for each member of the Executive Board. Ancillary benefits are so far not included in this amount. Although these are subject to fluctuation, no extraordinary fluctuations are expected and therefore it is not necessary to include them in the total cap. However, it is envisaged to include also the ancillary benefits in the calculation of the total cap of € 9.5 million in the future when renewing existing service contracts or entering into new service contracts with Executive Board members.

The long-term variable remuneration components under the remuneration system are share-based. Even though a cap is provided in relation to the number of shares granted, no dedicated cap is foreseen on

the maximum achievable bonus amount as there is no cap on share price performance. Extraordinary developments are however sufficiently reflected in the total cap.

No. 4.2.5 (3) (subitem 1) GCGC recommends, inter alia, presenting the maximum achievable remuneration for variable remuneration components in the remuneration report. As there will be no dedicated cap in relation to the share-based variable remuneration components, the maximum achievable remuneration cannot be presented as recommended in no. 4.2.5 (3) (subitem 1) GCGC.

### 3. Composition of the Nomination Committee (no. 5.3.3 GCGC)

No. 5.3.3 GCGC recommends that the Supervisory Board forms a Nomination Committee composed exclusively of shareholder representatives. In accordance with Section 4 b of the German Stock Exchange Act the Nomination Committee also assists the Supervisory Board of Deutsche Börse AG in selecting candidates for the Executive Board. As in particular this task shall not exclusively be performed by the shareholder representatives on the Supervisory Board the Nomination Committee also includes employee representatives. However, it will be ensured that the nominees proposed to the Annual General Meeting for the election as members of the Supervisory Board are determined solely by the shareholder representatives on the Committee."

The annual Declaration of Conformity pursuant to section 161 of the AktG, as well as the Declarations of Conformity for the past five years, are available on our website [www.deutsche-boerse.com/declcompliance](http://www.deutsche-boerse.com/declcompliance).

#### Disclosures on suggestions of the Code

Deutsche Börse AG also largely complies with the suggestions of the Code and deviates only regarding the following aspects:

In accordance with section 4.1.3 sentence 3 of the Code, employees shall be given the opportunity to report, in a protected manner, suspected breaches of the law within the company; third parties should also be given this opportunity. Deutsche Börse AG has implemented a whistleblowing system for its employees in accordance with the recommendation in section 4.1.3 sentence 3 of the Code. This whistleblowing system is also open to external service providers. However, Deutsche Börse deviates otherwise from the suggestion of also giving third parties the opportunity of reporting such suspicions mainly given the fact that, as far as Deutsche Börse is concerned, other such third parties are regular market participants who have other options at their disposal for reporting suspicions without being bound by fiduciary duties under employment law.

In accordance with section 4.2.3 (2) (sentence 9) of the Code, early disbursements of multiple-year, variable remuneration components should not be permitted. While Deutsche Börse AG adheres to this suggestion in principle, it reserves the right to deviate in extraordinary circumstances, e.g. in the event of an Executive Board member's inability to work, disease or death. The company also reserves the right to diverge from this procedure in other extraordinary cases, such as change-of-control events.

### Information on corporate governance practices

#### Conduct policies

Deutsche Börse Group's global orientation means that binding policies and standards of conduct must apply at each of the Group's locations around the world. Specifically, the main objectives of these principles for collaboration are to ensure responsibility, respect and mutual esteem. The Group also adheres to these principles when implementing its business model. Communications with clients, investors, employees and the general public are based on timely information and transparency. In

addition to focusing on generating profits, Deutsche Börse Group's business is managed sustainably in accordance with recognised standards of social responsibility.

#### Code of business conduct for employees

Acting responsibly means having values that are shared by all employees throughout the Group. In 2017, Deutsche Börse AG's Executive Board adopted an extended code of business conduct. This document, which is applicable throughout the Group, defines the foundations of key ethical and legal standards, including – but not limited to – the following topics:

- Confidentiality and the handling of sensitive information
- Conflicts of interest
- Personal account dealing, as well as the prevention of insider dealing and market manipulation
- Company resources and assets
- Combat of bribery and corruption
- Risk management
- Whistleblowers
- Environmental awareness
- Equal opportunities and protection against undesirable behaviour

The code of business conduct applies to members of the Executive Board, all other executives and all employees of Deutsche Börse Group. In addition to specifying concrete rules, the code of business conduct provides general guidance as to how employees can contribute to implementing the defined values in their everyday working life. The goal of the code of business conduct is to provide guidance on working together in the company on a day-to-day basis, to help resolve any conflicts and to resolve ethical and legal challenges. All newly hired employees receive the code of business conduct as part of their employment contract documentation. The code of business conduct is an integral part of the relationship between employer and employees at Deutsche Börse Group. Breaches may lead to disciplinary action. The document is available on [www.deutsche-boerse.com](http://www.deutsche-boerse.com) > Sustainability > Set an example > Employees > Guiding principles.

#### Code of conduct for suppliers and service providers

Deutsche Börse Group not only requires its management and staff to adhere to high standards – it demands the same from its suppliers and service providers. The code of conduct for suppliers and service providers requires them to respect human rights and employee rights and comply with minimum standards. Implementing a resolution of the Executive Board, the code of conduct for suppliers was amended in 2016 to include the requirements set out in the UK Modern Slavery Act, applicable to all corporations conducting business in the United Kingdom. Most suppliers have signed up to these conditions; all other key suppliers have made voluntary commitments, which correspond to, or in fact, exceed Deutsche Börse Group's standards. Service providers and suppliers must sign this code or enter into an equivalent voluntary commitment before they can do business with Deutsche Börse Group. The code of conduct for suppliers is reviewed regularly in the light of current developments and amended if necessary. It is available on Deutsche Börse Group's website [www.deutsche-boerse.com](http://www.deutsche-boerse.com) > Sustainability > Set an example > Procurement management.

#### Values

Deutsche Börse Group's business activities are based on the legal frameworks and ethical standards of the different countries in which it operates. A key way in which the Group underscores the values it considers important is by joining initiatives and organisations that advocate generally accepted ethical standards. Relevant memberships are as follows:

United Nations Global Compact [www.unglobalcompact.org](http://www.unglobalcompact.org): this voluntary business initiative established by the United Nations aims to achieve a more sustainable and more equitable global economy. At the heart of the compact are ten principles covering the areas of human rights, labour, environment protection and anti-corruption. Deutsche Börse Group has submitted annual communications on progress (COPs) on its implementation of the UN Global Compact since 2009.

Diversity Charter [www.diversity-charter.com](http://www.diversity-charter.com): as a signatory to the Diversity Charter, the company has committed to acknowledging, respecting and promoting the diversity of its workforce, customers and business associates – irrespective of their age, gender, disability, race, religion, nationality, ethnic background, sexual orientation or identity.

International Labour Organization [www.ilo.org](http://www.ilo.org): this UN agency is the international organisation responsible for drawing up and overseeing international labour standards; it brings together representatives of governments, employees and employers to promote the joint development of policies and programmes. Deutsche Börse Group has signed up to the ILO's labour standards and hence has agreed to abide by them.

Frankfurt Declaration [www.deutsche-boerse.com/frankfurt-declaration](http://www.deutsche-boerse.com/frankfurt-declaration): the Frankfurt Declaration demonstrates the signatories' intention to define the framework conditions for sustainable finance and to put concrete initiatives in place in the Frankfurt financial centre. These are directed towards the identification of innovative business areas and the responsible handling of risks, among other things. The potential of sustainable finance infrastructures must therefore be fully encouraged in order to support positive economic and social development founded on the unconditional protection of the natural basis of life.

For further information on sustainability at Deutsche Börse Group, please see [the chapter „Combined non-financial statement“](#) or go to [www.deutsche-boerse.com](http://www.deutsche-boerse.com) > Sustainability.

#### Sector-specific policies

Deutsche Börse Group's pivotal role in the financial sector requires that it handles information – and especially sensitive data and facts – responsibly. A number of rules are in force throughout the Group to ensure that employees comply with this. These cover both legal requirements and special policies applicable to the relevant industry segments, such as the whistleblowing system and risk and control management policies.

#### Whistleblowing system

Deutsche Börse Group's whistleblowing system gives employees and external service providers an opportunity to report non-compliant behaviour. The Group has engaged the auditing and consulting company Deloitte to act as an external ombudsman and receive any such information submitted by phone or e-mail. Whistleblowers' identities are not revealed to Deutsche Börse Group.

#### Risk and control management policies

Functioning control systems are an important part of stable business processes. Deutsche Börse Group's enterprise-wide control systems are embedded in an overarching framework. This comprises, among other things, the legal requirements, the recommendations of the German Corporate Governance Code, international regulations and recommendations and other company-specific policies. The executives responsible for the different elements of the control system are in close contact with each other and with the Executive Board, and report regularly to the Supervisory Board or its committees. Equally, the Group has an enterprise-wide risk management system that covers and provides mandatory rules for functions, processes and responsibilities. Details of the internal control system and risk management at Deutsche Börse Group can be found in the [“Internal management”](#) and [“Risk report”](#) sections.

## Working practices of the Executive Board and the Supervisory Board

An important fundamental principle of the German Stock Corporation Act is the dual board system – which assigns separate, independent responsibilities to the Executive Board and the Supervisory Board. These responsibilities and their implementation at Deutsche Börse AG are set out in detail in the following paragraphs.

Both boards perform their duties in the interests of the company and with the aim of achieving a sustainable increase in value. Their actions are based on the principle of responsible corporate governance. Therefore, Deutsche Börse AG's Executive Board and Supervisory Board work closely together in a spirit of mutual trust, with the Executive Board providing the Supervisory Board with comprehensive information on the company's and the Group's position and the course of business in a regular and timely manner. In addition, the Executive Board regularly informs the Supervisory Board concerning all issues relating to corporate planning, the risk situation, risk management, compliance and the company's control systems. The strategic orientation of the company is examined in detail and agreed upon with the Supervisory Board. Implementation of the relevant measures is discussed at regular intervals. The Chief Executive Officer reports to the Supervisory Board without undue delay, orally or in writing, on matters that are of special importance to the company.

In addition, the CEO keeps the Chairman of the Supervisory Board continuously informed of the current developments affecting the company's business, significant transactions, upcoming decisions and the long-term outlook and discusses these issues with him. The Supervisory Board may also request reports from the Executive Board at any time, especially on matters and business transactions at Deutsche Börse AG and subsidiaries that have a significant impact on Deutsche Börse AG's position.

### Deutsche Börse AG's Executive Board

The Executive Board manages Deutsche Börse AG and Deutsche Börse Group; it had six members during the reporting period. The main duties of the Executive Board include defining the Group's corporate goals and strategic orientation, managing and monitoring the operating units, as well as establishing and monitoring an efficient risk management system. The Executive Board is responsible for preparing the consolidated and annual financial statements of Deutsche Börse AG, as well as for producing financial information during the course of the year. In addition, it must ensure the company's compliance with legal requirements and official regulations.

The members of the Executive Board are jointly responsible for all aspects of management. Irrespective of this collective responsibility, the individual members manage the company's business areas assigned to them in the Executive Board's schedule of responsibilities independently and are personally responsible for them. In addition to the business areas, the functional areas of responsibility are that of the Chief Executive Officer (CEO), the Chief Financial Officer (CFO) and the Chief Information Officer/ Chief Operating Officer (CIO/COO). The business areas cover the operating business units, such as the company's cash market activities, the derivatives business, securities settlement and custody and the market data business. Details can be found in the [📄 "Overview of Deutsche Börse Group – Organisational structure"](#) section.



Further details of the Executive Board's work are set out in the bylaws that the Supervisory Board has resolved for the Executive Board. Among other things, these list issues that are reserved for the entire Executive Board, special measures requiring the approval of the Supervisory Board, other procedural details and the arrangements for passing resolutions. The Executive Board holds regular meetings; these are convened by the CEO, who coordinates the Executive Board's work. Any Executive Board member can require a meeting to be convened. In accordance with its bylaws, the entire Executive Board normally takes decisions on the basis of resolutions passed by a simple majority of the members voting on them in each case. If a vote is tied, the CEO has the casting vote.

More information on the Executive Board, its composition, members' individual appointments and biographies can be found at [www.deutsche-boerse.com/execboard](https://www.deutsche-boerse.com/execboard).

#### Deutsche Börse AG's Supervisory Board

The Supervisory Board supervises and advises the Executive Board in its management of the company. It supports the Executive Board in significant business decisions and provides assistance on strategically important issues. The Supervisory Board has specified measures requiring its approval in the bylaws for the Executive Board. In addition, the Supervisory Board is responsible for appointing the members of the Executive Board, deciding on their total remuneration, examining Deutsche Börse AG's consolidated and annual financial statements and the combined management report including the combined non-financial statement. Details of the Supervisory Board's work during the 2019 financial year can be found in the [report of the Supervisory Board](#).

The Supervisory Board consisted of 16 members, and has parity co-determination, which means it consists of an equal number of shareholder representatives and employee representatives in line with the German Mitbestimmungsgesetz (MitbestG, German Co-determination Act). The term of office for shareholder and employee representatives on the current Supervisory Board ends at the Annual General Meeting in 2021.

The Supervisory Board holds at least six regular meetings every year. In addition, extraordinary meetings are held as required. The committees also hold regular meetings. Unless mandatory statutory provisions or the Articles of Associations call for a different procedure, the Supervisory Board passes its resolutions by a simple majority. If a vote is tied, the Chairman has the casting vote. In addition, the Supervisory Board regularly reviews the structure, size, composition and performance of the work of the Executive and Supervisory Boards as well as the effectiveness of its own work, and discusses potential areas for improvement and resolves suitable measures, where necessary.

#### Supervisory Board committees

The Supervisory Board's goal in establishing committees is to improve the efficiency of its work by examining complex matters in smaller groups that prepare them for the plenary meeting of the Supervisory Board. Additionally, the Supervisory Board has delegated individual decision-making powers to the committees, to the extent that this is legally permissible. The Supervisory Board had seven committees at the beginning of the reporting period. The Chairman Selection Committee was established for a limited period of time for the purpose of preparing the new election of the Supervisory Board Chair after the Annual General Meeting 2020. For details on the committees, please refer to the ["Supervisory Board committees during 2019: composition and responsibilities"](#) tables. Their individual responsibilities are outlined in the Supervisory Board's bylaws. The committees' rules of procedure correspond to those for the plenary meeting of the Supervisory Board. Details of the current duties and members of the individual committees can be found online, at [www.deutsche-boerse.com/supervboard](https://www.deutsche-boerse.com/supervboard) > Committees.

The chairmen of the individual committees report to the plenary meeting about the subjects addressed and resolutions passed in the committee meetings. Information on the Supervisory Board's concrete work and meetings during the reporting period can be found in the [report of the Supervisory Board](#).

More information on the Supervisory Board and its committees, the individual members and their appointments and biographies, can be found at:

[www.deutsche-boerse.com/supervboard](http://www.deutsche-boerse.com/supervboard).

## Supervisory Board committees during 2019: composition and responsibilities

### Audit Committee

Members	Composition
<ul style="list-style-type: none"> <li>▫ Barbara Lambert (Chairperson)</li> <li>▫ Nadine Absenger<sup>1)</sup></li> <li>▫ Markus Beck<sup>1)</sup></li> <li>▫ Karl-Heinz Flöther</li> <li>▫ Joachim Nagel</li> <li>▫ Jutta Stuhlfauth<sup>1)</sup></li> </ul>	<ul style="list-style-type: none"> <li>▫ At least four members who are elected by the Supervisory Board</li> <li>▫ Prerequisites for the chair of the committee: the person concerned must be independent, and must have specialist knowledge and experience of applying accounting principles as well as internal control and risk management processes (financial expert)</li> <li>▫ Persons who cannot chair the committee: the Chairman of the Supervisory Board; former members of the company's Executive Board whose appointment ended less than two years ago</li> </ul>
	Responsibilities
	<ul style="list-style-type: none"> <li>▫ Deals with issues relating to the preparation of the annual budget and financial topics, particularly capital management</li> <li>▫ Deals with issues relating to the adequacy and effectiveness of the company's control systems – in particular, to risk management, compliance and internal audit</li> <li>▫ Audit reports</li> <li>▫ Deals with accounting issues, including oversight of the accounting and reporting process</li> <li>▫ Half-yearly financial reports, plus any quarterly financial reports, if applicable</li> <li>▫ Examines the annual financial statements, the consolidated financial statements and the combined management report (including the combined non-financial statement), discusses the audit report with the external auditors and prepares the Supervisory Board's resolutions adopting the annual financial statements and approving the consolidated financial statements, as well as the resolution on the Executive Board's proposal on the appropriation of the unappropriated surplus</li> <li>▫ Prepares the Supervisory Board's recommendation to the Annual General Meeting on the election of the external auditors of the annual financial statements, the consolidated financial statements and the half-yearly financial report (to the extent that the latter is audited or reviewed by external auditors) and makes corresponding recommendations to the Supervisory Board</li> <li>▫ Deals with the required independence of the external auditor</li> <li>▫ Deals with non-audit services rendered by the external auditor</li> <li>▫ Issues the engagement letter to the external auditor of the annual financial statements and the consolidated financial statements – including, in particular, the review or audit of half-yearly financial reports, and determines focal areas of the audit and the audit fee</li> <li>▫ Prepares the Supervisory Board's resolution approving the statement on the German Corporate Governance Code pursuant to section 161 of the AktG and the corporate governance statement in accordance with section 289f of the HGB</li> </ul>

1) Employee representative

---

## Nomination Committee

Members	Composition
<ul style="list-style-type: none"><li>▫ Joachim Faber (Chairman)</li><li>▫ Markus Beck<sup>1)</sup></li><li>▫ Richard Berliand (until 8 May 2019)</li><li>▫ Martin Jetter</li><li>▫ Jutta Stuhlfauth<sup>1)</sup></li><li>▫ Gerd Tausendfreund<sup>1)</sup></li><li>▫ Amy Yip (since 8 May 2019)</li></ul>	<ul style="list-style-type: none"><li>▫ Chaired by the Chairman of the Supervisory Board</li><li>▫ At least five other members who are elected by the Supervisory Board</li></ul> <hr/> <p>Responsibilities</p> <ul style="list-style-type: none"><li>▫ Proposes suitable candidates to the Supervisory Board for inclusion in the Supervisory Board's election proposal to the Annual General Meeting (the proposal is being submitted by shareholder representatives)</li><li>▫ Other tasks and duties set forth in section 4b (5) of the BörsG</li><li>▫ Deals with issues relating to the contracts of service for Executive Board members and, in particular, to the structure and amount of their remuneration</li><li>▫ Addresses succession planning for the Executive Board</li><li>▫ Approves appointments of members of Deutsche Börse AG's Executive Board to other executive boards, supervisory boards, advisory boards and similar boards, as well as honorary appointments and sideline activities, including any exemptions from the approval requirement</li><li>▫ Approves the grant or revocation of general powers of attorney</li><li>▫ Approves cases in which the Executive Board grants employees retirement pensions or other individually negotiated retirement benefits, or proposes to enter into employer/works council agreements establishing pension plans</li></ul>

1) Employee representative

---

## Risk Committee

Members	Composition
<ul style="list-style-type: none"><li>▫ Joachim Nagel (Chairman)</li><li>▫ Susann Just-Marx<sup>1)</sup></li><li>▫ Cornelis Kruijssen<sup>1)</sup></li><li>▫ Barbara Lambert</li></ul>	<ul style="list-style-type: none"><li>▫ At least four members who are elected by the Supervisory Board</li></ul> <hr/> <p>Responsibilities</p> <ul style="list-style-type: none"><li>▫ Reviews the risk management framework, including the overall risk strategy, risk appetite and the risk roadmap</li><li>▫ Takes note of and reviews the periodic risk management and compliance reports</li><li>▫ Oversees monitoring of the Group's operational, financial and business risks</li><li>▫ Discusses the annual reports on significant risks and the risk management systems at regulated Group entities, to the extent legally permissible</li></ul>

1) Employee representative

---

## Strategy Committee

Members	Composition
<ul style="list-style-type: none"><li>▫ Joachim Faber (Chairman)</li><li>▫ Ann-Kristin Achleitner (until 8 May 2019)</li><li>▫ Susann Just-Marx<sup>1)</sup></li><li>▫ Achim Karle<sup>1)</sup></li><li>▫ Carsten Schäfer<sup>1)</sup></li><li>▫ Charles Stonehill (since 8 May 2019)</li><li>▫ Clara-Christina Streit (since 8 May 2019)</li><li>▫ Amy Yip (until 8 May 2019)</li></ul>	<ul style="list-style-type: none"><li>▫ Chaired by the Chairman of the Supervisory Board</li><li>▫ At least five other members who are elected by the Supervisory Board</li></ul> <hr/> <p>Responsibilities</p> <ul style="list-style-type: none"><li>▫ Advises the Executive Board on matters of strategic importance to the company and its affiliates</li><li>▫ Addresses fundamental strategic and business issues, as well as projects important to Deutsche Börse Group</li></ul>

1) Employee representative

---

## Technology Committee

Members	Composition
<ul style="list-style-type: none"><li>▫ Martin Jetter (Chairman since 8 May 2019)</li><li>▫ Richard Berliand (Chairman until 8 May 2019)</li><li>▫ Karl-Heinz Flöther</li><li>▫ Achim Karle<sup>1)</sup></li><li>▫ Cornelis Kruijssen<sup>1)</sup></li><li>▫ Carsten Schäfer<sup>1)</sup></li><li>▫ Amy Yip (since 8 May 2019)</li></ul>	<ul style="list-style-type: none"><li>▫ At least four members who are elected by the Supervisory Board</li></ul>
	Responsibilities
	<ul style="list-style-type: none"><li>▫ Supports the Supervisory Board in meeting its supervisory duties with respect to the information technology used to execute the Group's business strategy and with respect to information security</li><li>▫ Advises on IT strategy and architecture</li><li>▫ Oversees monitoring of technological innovations, the provision of IT services, the technical performance and stability of IT systems, operational IT risks, and information security services and -risks</li></ul>

1) Employee representative

---

## Chairman's Committee

Members	Composition
<ul style="list-style-type: none"><li>▫ Joachim Faber (Chairman)</li><li>▫ Nadine Absenger<sup>1)</sup></li><li>▫ Richard Berliand (until 8 May 2019)</li><li>▫ Martin Jetter (since 8 May 2019)</li><li>▫ Jutta Stuhlfauth<sup>1)</sup></li></ul>	<ul style="list-style-type: none"><li>▫ Chaired by the Chairman of the Supervisory Board</li><li>▫ Deputy Chairperson of the Supervisory Board as well as one shareholder representative and one employee representative each who are elected by the Supervisory Board</li></ul>
	Responsibilities
	<ul style="list-style-type: none"><li>▫ Time-sensitive affairs</li></ul>

1) Employee representative

---

## Mediation Committee

Members	Composition
<ul style="list-style-type: none"><li>▫ Joachim Faber (Chairman)</li><li>▫ Karl-Heinz Flöther (since 8 May 2019)</li><li>▫ Martin Jetter (until 8 May 2019)</li><li>▫ Susann Just-Marx<sup>1)</sup></li><li>▫ Jutta Stuhlfauth<sup>1)</sup></li></ul>	<ul style="list-style-type: none"><li>▫ Chaired by the Chairman of the Supervisory Board</li><li>▫ Deputy Chairperson of the Supervisory Board as well as one shareholder representative and one employee representative each</li></ul>
	Responsibilities
	<ul style="list-style-type: none"><li>▫ Tasks and duties pursuant to section 27 (3) of the MitbestG</li></ul>

1) Employee representative

---

## Chairman Selection Committee (temporary committee since 19 September 2019)

Members	Composition
<ul style="list-style-type: none"><li>▫ Barbara Lambert (Chairperson)</li><li>▫ Markus Beck<sup>1)</sup></li><li>▫ Joachim Faber</li><li>▫ Jutta Stuhlfauth<sup>1)</sup></li><li>▫ Gerd Tausendfreund<sup>1)</sup></li><li>▫ Amy Yip</li></ul>	<ul style="list-style-type: none"><li>▫ As determined by the Supervisory Board</li></ul>
	Responsibilities
	<ul style="list-style-type: none"><li>▫ Prepares the new election of the Supervisory Board Chair -, in particular, recommends candidates to be elected by the Supervisory Board</li></ul>

1) Employee representative

## Targets for composition and qualification requirements of the Supervisory Board

In accordance with section 5.4.1 of the Code, the Supervisory Board has adopted a catalogue of specific targets concerning its composition that, above all, should serve as a basis for the future nomination of its members. This catalogue comprises qualification requirements as well as diversity targets. Furthermore, members shall have sufficient time, as well as the personal integrity and suitability of character, to exercise their office. In addition, half of the shareholder representatives on the Supervisory Board shall be independent.

### Qualification requirements

Given their knowledge, skills and professional experience, members of the Supervisory Board shall have the ability to perform the duties of a supervisory board member in a company with international business activities. The Supervisory Board has determined individual (basic) as well as general qualification requirements. Basic requirements are derived from the business model, the concrete targets, as well as from specific regulations applicable to Deutsche Börse Group.

### Individual (basic) qualification requirements

Ideally, each Supervisory Board member holds the following basic qualifications:

- Understanding of commercial issues
- Analytical and strategic skills
- Understanding of the corporate governance system
- Knowledge of the financial services sector
- Understanding of Deutsche Börse AG's activities
- Understanding of Deutsche Börse Group's structure
- Understanding of the member's own position and responsibilities

### General qualification requirements

The general qualifications refer to the Supervisory Board in its entirety. At least two of its members should have profound knowledge, especially concerning the following topics:

- Business models of exchanges and the capital markets
- Accounting, finance, audit
- Risk management and compliance
- Information technology and security, digitalisation
- Clearing, settlement and custody business
- Regulatory requirements

The current composition of the Supervisory Board fulfils these criteria concerning the qualification of its members.

## Supervisory Board members' general qualification requirements

	Business models of exchanges and the capital markets	Accounting, finance, audit	Risk management and compliance	Information technology and security, digitalisation	Clearing, settlement and custody business	Regulatory requirements
Joachim Faber (Chairman)	+	+	+			+
Karl-Heinz Flöther		+		+		
Martin Jetter			+	+		+
Barbara Lambert		+	+	+		+
Joachim Nagel	+		+	+	+	+
Charles Stonehill	+		+		+	
Clara-Christina Streit	+	+			+	+
Amy Yip	+	+			+	

### Independence

In accordance with section 5.4.2 of the Code, the Supervisory Board shall be comprised of what it considers to be an appropriate number of independent members. Supervisory Board members are no longer to be considered independent in the meaning of section 5.4.2 of the Code, particularly if they have a personal or business relationship with the company, its governing bodies, a controlling shareholder or an entity affiliated with the controlling shareholder that may cause a substantial (and not merely temporary) conflict of interest. The Supervisory Board has resolved that at least half of its members who are shareholder representatives are to be independent in this sense. The Supervisory Board regards all of its shareholder representatives as being independent.

### Diversity concept for the Executive Board and the Supervisory Board

The diversity concept for the Executive Board and the Supervisory Board, as adopted by the Supervisory Board in accordance with section 289f (2) no. 6 of the HGB, has the objective of ensuring a wide range of perspectives and experience through the composition of both bodies. The concept is implemented within the scope of appointing new Executive Board members or regarding nominations for election of new Supervisory Board members.

### Flexible age limit and term of office

The Supervisory Board considers the flexible age limit stipulated in the bylaws (generally 70 years) when nominating candidates for election by the Annual General Meeting. Furthermore, the Supervisory Board's bylaws provide for a general limitation to members' maximum term of office to twelve years, which the Supervisory Board shall also consider in its nominations of candidates to the Annual General Meeting.

The flexible age limit for members of the Executive Board provides for the term of office to expire at the end of the month during which a member reaches the age of 60 years. From the month during which an Executive Board member has reached the age of 60, re-appointment is permitted for a period of one year in each case, provided that the last term of office shall expire at the end of the month during which the Executive Board member reaches the age of 65. When appointing members of the Executive Board, the Supervisory Board pursues the objective of achieving an optimal composition of the Executive Board from the company's perspective. In this context, experience and industry knowledge, as well as professional and personal qualifications, play a major role. Depending on the Executive Board position to be filled, it is not just the scope and depth of skills that is decisive, but also whether the specific skills

are up to date. The flexible age limit has been deliberately worded to preserve the Supervisory Board's flexibility in taking decisions on appointments.

At present, no Executive Board member has passed the age limit of 65 years. However, the Supervisory Board agreed to prolong Theodor Weimer's term of office as Chairman of Deutsche Börse AG's Executive Board in the long term, until 31 December 2024. Theodor Weimer will reach the age of 65 in 2024. The main reason for prolonging his term of office is his comprehensive expertise in the financial sector, the professional and personal qualifications he has proven to possess since the beginning of his term of office in 2018, and the special role of the Chairman of the Executive Board. Against this background, the Supervisory Board resolved to extend Mr Weimer's term of office for a period of more than one year, although he has already reached the age of 60.

#### Share of women holding management positions

With regard to the Supervisory Board, the legally prescribed gender quota of 30 per cent in accordance with section 96 (2) of the AktG applies. In order to prevent the possible discrimination of either shareholder representatives or employee representatives, and in order to increase the planning security in the relevant election procedures, the shareholder representatives on the Supervisory Board have opposed the overall compliance of the quota in accordance with section 96 (2) (sentence 2) of the AktG. Thus, the minimum proportion of 30 per cent is to be complied with for each gender with regard to the shareholder representatives and the employee representatives. This means that at least two women and two men from each the shareholder representatives and from the employee representatives must be on the Supervisory Board. Currently, there are three women each from the shareholder representatives and from the employee representatives. The legally prescribed gender quota is thus complied with.

Deutsche Börse AG's Supervisory Board has defined a target quota for women on the Executive Board in accordance with section 111 (5) of the AktG. The first minimum target – 20 per cent of the Executive Board members were to be women – was complied with by the end of the implementation period on 30 June 2017. The quota of women on the Executive Board was 20 per cent at such point in time. Effective 1 July 2017, the Supervisory Board decided to extend the 20 per cent target quota of women on the Executive Board until 31 December 2021. This quota, however, declined due to the increase of the Executive Board to six members as of 1 July 2018, despite the fact that the actual number of women on the Executive Board did not change. The quota of women on the Executive Board is currently 16.7 per cent.

The Supervisory Board intends to comply with the 20 per cent target quota for women on the Executive Board and also intends to further increase the quota for women on the Supervisory Board. This will be taken into account in future personnel decisions.

#### International profile

The composition of the Executive Board and the Supervisory Board shall reflect the company's international activities. With Barbara Lambert, Charles Stonehill, Clara-Christina Streit and Amy Yip, there are four shareholder representatives on the Supervisory Board holding non- (or non-exclusive) German citizenship. Cornelis Kruijssen, employee representative on the Supervisory Board, has the Dutch nationality. In addition, many of the members of the Supervisory Board have long-term professional experience in the international field or are working abroad on a permanent basis. The Supervisory Board will therefore continue to meet the objectives concerning its international composition. The same applies to the Executive Board, where Stephan Leithner holds non-German citizenship, and whose members have gained long-standing international working experience as well.

### Educational and professional background

The Supervisory Board has set itself the objective of considering an appropriate range of educational and professional backgrounds regarding its own composition, as well as regarding the composition of the Executive Board. The composition of both the Supervisory Board and the Executive Board reflect these objectives. In addition to possessing professional experience in the financial services industry, members of the Executive Board and the Supervisory Board also have a professional background in consultancy, the IT sector, administration and regulation as well as auditing. In terms of academic education, economic and legal degrees prevail, in addition to backgrounds, inter alia, in IT and engineering. Education and professional experience thus also contribute to fulfilling the previously mentioned qualification requirements for Supervisory Board members.

The composition of both Deutsche Börse AG's Supervisory Board and Executive Board is in line with the objectives stated above. Please refer to [www.deutsche-boerse.com/supervboard](http://www.deutsche-boerse.com/supervboard) for further information concerning the members of the Supervisory Board and its committees. For further information concerning the members of the Executive Board, please see [www.deutsche-boerse.com/execboard](http://www.deutsche-boerse.com/execboard).

### Preparations for the election of a chairperson as well as shareholder representatives to the Supervisory Board

Joachim Faber, the long-standing Chairman of the Supervisory Board, will depart from the Supervisory Board after the Annual General Meeting on 19 May 2020. The Supervisory Board embarked with the process of finding a suitable successor for Mr Faber as chair of the Supervisory Board – and the necessary election of a new member of the Supervisory Board – at an early stage.

In September 2019, the Supervisory Board established the Chairman Selection Committee for the purpose of preparing the projected election of the Supervisory Board chair. The committee is chaired by Barbara Lambert. After an extensive review of all potential internal and external candidates, the Chairman Selection Committee proposed to the Supervisory Board that Martin Jetter be elected as the new Supervisory Board Chairman. In December 2019, the Supervisory Board acknowledged the proposal of the Chairman Selection Committee, and nominated Martin Jetter as candidate to succeed Mr Faber as chair of the Supervisory Board.

The Supervisory Board's Nomination Committee – whose task it is to propose suitable candidates to the Supervisory Board for recommendation to the Annual General Meeting – has concerned itself with Mr Faber's successor as member of the Supervisory Board. After a careful pre-selection process and several personal candidate interviews, the Nomination Committee resolved in December 2019 to propose to the Supervisory Board that Michael Rüdiger be nominated as candidate to be elected by the Annual General Meeting 2020. When selecting an appropriate candidate, the committee has taken into account the above criteria.

Mr Rüdiger has many years of experience in the financial services industry, on both a national and international level. He acquired his comprehensive expertise regarding capital market topics – among others – in executive positions at Schweizerische Kreditanstalt, UBS (formerly named Schweizerische Bankgesellschaft), Allianz Asset Management and Credit Suisse, where he headed the Central Europe business. Most recently, from 2012 to 2019, Mr Rüdiger served as Chairman of the Board of Management of DekaBank Deutsche Girozentrale. He is a Supervisory Board member of Evonik Industries AG and was a Exchange Council member at both Frankfurter Wertpapierbörse (FWB, the Frankfurt Stock Exchange) and Eurex Deutschland from 2017 to 2020, chairing FWB's Exchange Council since mid-2017.



## Training and professional development measures for members of the Supervisory Board

As a matter of principle, Supervisory Board members are responsible for their continuing professional development. Deutsche Börse AG complies with the recommendation of section 5.4.5 (2) of the Code as well as the guidelines of the European Securities and Markets Authority (ESMA) on management bodies of market operators and data reporting services providers, and supports Supervisory Board members in this endeavour – for example, by organising targeted introductory events for new Supervisory Board members, or workshops on selected strategy issues as well as on professional topics (if required). Thus, in addition to one strategy and two technology workshops, the Supervisory Board held workshops on sustainable finance as well as legal and compliance matters. In individual cases, Deutsche Börse AG assumes the costs incurred for third-party training, which are then covered by the qualification programme for Supervisory Board members.

## Examination of the effectiveness of Supervisory Board work

Deutsche Börse AG regards regular reviews of the effectiveness of Supervisory Board work – in accordance with section 5.6 of the Code – as a key component of good corporate governance. The 2019 effectiveness examination was supported by an external service provider, and dedicated to the following areas: tasks and composition of the Supervisory Board, co-operation between Supervisory Board members and between the Executive Board and the Supervisory Board, Supervisory Board meetings and Supervisory Board committees. The review yielded positive results, both in terms of overall effectiveness as well as regarding the audited subject areas. Where it identified room for improvement, optimising proposals were discussed by the Supervisory Board and measures for their execution implemented.

## Long-term succession planning for the Executive Board

Together with the Executive Board, the Supervisory Board ensures that there is long-term succession planning. Therefore, the Supervisory Board, or its Nomination Committee, regularly – at least once a year – concerns itself with potential Executive Board member candidates. The Chairman of the Executive Board is involved in these considerations, provided that the discussed subject matters do not refer to the succession of his own position. The Supervisory Board prepares an applicant profile for vacant Executive Board positions. The Supervisory Board pays attention to ensure that the knowledge, expertise and experience of all Executive Board members be diverse and well balanced, and adheres to the adopted diversity concept. Moreover, the Supervisory Board ensures it is informed regularly about the succession planning at the first level beneath the Executive Board, and provides advice to the Executive Board in this regard.

## Target figures for the proportion of female executives beneath the Executive Board

Deutsche Börse AG's Executive Board has defined target quotas for women on the two management levels beneath the Executive Board, in accordance with section 76 (4) of the AktG, in each case referring to Deutsche Börse AG. By 31 December 2021, the proportion of women holding positions in the first and second management levels beneath the Executive Board is planned to amount to 15 per cent and 20 per cent, respectively. As per 31 December 2019, the share of women holding positions on the first and second management levels beneath the Executive Board at Deutsche Börse AG in Germany was 15 per cent and 18 per cent, respectively.

Moreover, as early as in 2010, the Executive Board had adopted a voluntary commitment to increase the share of women holding middle and upper management positions to 20 per cent by 2020 and of women holding lower management positions to 30 per cent during the same period. The Group maintains this ambition, and has extended the scope of its voluntary commitment, over and above legal requirements. Firstly, the target figures determined in this context relate to Deutsche Börse Group (including subsidiaries) worldwide. Secondly, the definition of management levels/positions was extended to also include heads of teams, for example. On a global level, as at 31 December 2019, these quotas stood at 15 per cent for upper and middle management levels and 27 per cent for lower management positions. For Germany, the quotas were 16 per cent and 22 per cent, respectively.

#### [Shareholder representation, transparent reporting and communication](#)

Shareholders exercise their rights at the Annual General Meeting (AGM). In the spirit of good corporate governance, Deutsche Börse AG aims to make it as easy as possible for shareholders to exercise their shareholder rights. For instance, Deutsche Börse AG shareholders may follow the AGM over the internet and can be represented at the AGM by proxies nominated by Deutsche Börse AG. These proxies exercise voting rights solely in accordance with shareholders' instructions. Additionally, shareholders may exercise their voting rights by post or online. Among other things, the AGM elects the shareholder representatives to the Supervisory Board and resolves on the formal approval of the actions of the Executive Board and the Supervisory Board. It also passes resolutions on the appropriation of the unappropriated surplus, resolves on capitalisation measures and approves intercompany agreements and amendments to Deutsche Börse AG's Articles of Association. Ordinary AGMs – at which the Executive Board and the Supervisory Board give an account for the past financial year – take place once a year.

To maximise transparency and ensure equal access to information, Deutsche Börse AG's corporate communications generally follow the rule that all target groups should receive all relevant information simultaneously. Deutsche Börse AG's financial calendar informs shareholders, analysts, shareholders' associations, the media and interested members of the public of key events such as the date of the AGM, or publication dates for financial performance indicators.

Ad hoc disclosures, information on directors' dealings and voting rights notifications, corporate reports and interim reports, and company news can all be found on Deutsche Börse's website: [www.deutsche-boerse.com](http://www.deutsche-boerse.com). Deutsche Börse AG provides information about its consolidated and annual financial statements at an annual press briefing. It also offers conference calls for analysts and investors following the publication of the interim reports. Furthermore, when outlining its strategy and providing information to everyone who is interested, it abides by the principle that all target groups worldwide must be informed at the same time.

Additionally, Deutsche Börse AG submitted a COP for 2019 to the UN Global Compact. Good corporate governance is one of Deutsche Börse Group's core concerns, is why it has complied with the Global Compact's principles for many years. Public records of this have been available since the company officially joined the initiative in 2009: [www.deutsche-boerse.com](http://www.deutsche-boerse.com) > Sustainability > Our responsibility > UN Global Compact.


## Accounting and auditing

Deutsche Börse AG's annual report provides shareholders and interested members of the public with detailed information on Deutsche Börse Group's business performance during the reporting period. Additional information is published in its half-yearly financial report and two quarterly statements. The annual financial statement documents and the annual report are published within 90 days of the end of the financial year (31 December); intra-year financial information (half-yearly financial report and quarterly statements) is made available within 45 days of the end of the relevant quarter or six-month period. Following preparations by the Audit Committee, the consolidated and annual financial statements are discussed by the entire Supervisory Board and with the external auditors, examined, and then approved. The Executive Board discusses the half-yearly report and the quarterly statements for the first and third quarters with the Supervisory Board's Audit Committee prior to their publication. The half-yearly financial report is reviewed by the external auditors. In line with the proposal by the Supervisory Board, the 2019 AGM elected KPMG AG Wirtschaftsprüfungsgesellschaft, Berlin, (KPMG) to audit its 2019 annual and consolidated financial statements and to review its half-yearly financial report in the year under review. KPMG was also instructed to perform a review of the contents of the combined non-financial statement during the 2019 financial year. The lead auditor, Sven-Olaf Leitz, and the deputy lead auditor, Klaus-Ulrich Pfeiffer, have been responsible for the audit since 2018. The Supervisory Board's proposal was based on the recommendation by the Audit Committee. The Audit Committee obtained the necessary statement of independence from KPMG before the election. This states that there are no personal, business, financial or other relationships between the auditor, its governing bodies and audit managers on the one hand, and the company and the members of its Executive and Supervisory Boards on the other, that could give cause to doubt the auditor's independence. The Audit Committee checked that this continued to be the case during the reporting period. It also oversaw the financial reporting process in 2019. The Supervisory Board was informed in a timely manner of the Committee's work and the insights gained; there were no material findings. Information on audit services and fees is provided in [note 6 to the consolidated financial statements](#).

Frankfurt/Main, 2 March 2020  
Deutsche Börse AG

  
Theodor Weimer

  
Christoph Böhm

  
Thomas Book

  
Stephan Leithner

  
Gregor Pottmeyer

  
Hauke Stars

# Independent Auditor's Report

To Deutsche Börse Aktiengesellschaft, Frankfurt am Main

## Report on the Audit of the Financial Statements and Combined Management Report

### Opinions

We have audited the financial statements of Deutsche Börse Aktiengesellschaft, Frankfurt am Main, which comprises the balance sheet as of 31 December 2019 and the profit and loss account for the financial year from 1 January to 31 December 2019 as well as the notes to the financial statements, including the recognition and measurement policies presented therein. In addition, we have audited the combined management report of Deutsche Börse Aktiengesellschaft, Frankfurt am Main, for the financial year from 1 January to 31 December 2019, including the combined non-financial statement in line with Sections 289b(1), 289c, 315b and 315c HGB [Handelsgesetzbuch: German Commercial Code]. In accordance with the legal requirements applicable in Germany, we did not audit the components of the combined management report which we have identified in the "Other information" section of our audit opinion.

The combined management report comprises links to the Group's website which are not required by law. In accordance with the legal requirements applicable in Germany, we did not audit these links, nor the information referred to in the links.

In our opinion, on the basis of the knowledge obtained in the audit,

- the accompanying financial statements comply in all material respects with the requirements of German commercial law applicable to business corporations and give a true and fair view of the assets, liabilities and financial position of the Company as of 31 December 2019 and of its financial performance for the financial year from 1 January to 31 December 2019 in compliance with German Legally Required Accounting Principles, and
- the accompanying combined management report as a whole provides a suitable view of the company's position. In all material respects, this management report is consistent with the financial statements, complies with German legal requirements and appropriately presents the opportunities and risks of future development. Our opinion on the combined management report does not cover the content of the components of the combined management report which we have identified in the "Other information" section of our audit opinion. The combined management report comprises links to the Group's website which are not required by law. Our opinion does not cover the links, nor the information referred to in the links.

Pursuant to Section 322(3) sentence 1 HGB [Handelsgesetzbuch: German Commercial Code], we declare that our audit has not led to any reservations relating to the legal compliance of the financial statements and of the combined management report.

### **Basis for the Opinions**

We conducted our audit of the financial statements and of the combined management report in accordance with Section 317 HGB and the EU Audit Regulation No 537/2014 (referred to subsequently as 'EU Audit Regulation') and in compliance with German Generally Accepted Standards for Financial Statement Audits promulgated by the Institut für Wirtschaftsprüfer [Institute of Public Auditors in Germany] (IDW). Our responsibilities under those requirements and principles are further described in the 'Auditor's Responsibilities for the Audit of the Financial Statements and combined Management Report' section of our auditor's report. We are independent of the Company in accordance with the requirements of European law and German commercial and professional law, and we have fulfilled our other German professional responsibilities in accordance with these requirements. In addition, in accordance with Article 10(2) point (f) of the EU Audit Regulation, we declare that we have not provided non-audit services prohibited under Article 5(1) of the EU Audit Regulation. We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our opinions on the financial statements and on the combined management report.

### **Key Audit Matters in the Audit of the Financial Statements**

Key audit matters are those matters that, in our professional judgement, were of most significance in our audit of the financial statements for the financial year from 1 January to 31 December 2019. These matters were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon, we do not provide a separate opinion on these matters.

### **Recognition of internal Group services**

Please see the notes for the accounting policies applied. Information on the internal Group services can be found in the combined management report in section "Deutsche Börse AG (Disclosures based on the HGB)".

### **THE FINANCIAL STATEMENT RISK**

Deutsche Börse AG is the parent company of the Deutsche Börse Group. Its business activities essentially involve the spot and futures markets as well as the information technology and Market Data + Services. There is a large number of service relationships with subsidiaries in the context of the above business activities, where the company both performs and procures services.

The service relationships are regulated by contracts and service level agreements, where some sub-outsourcing also takes place. Depending on the service relationship, the invoicing is carried out based on various measurement parameters and also at various times.

On account of the large number of different service relationships and the various invoicing procedures, there is a risk that the income and expenses arising from internal Group services are not regulated by a contract or are not fully or correctly recorded.

#### OUR AUDIT APPROACH

Based on our risk analysis and the assessment of the risks of error, we have supported our audit opinion using exclusively substantive audit procedures. We accordingly performed the following audit procedures:

We first gained an overview of the key service relationships between DBAG and the companies of the Deutsche Börse Group as well as the contractual bases.

In the course of the substantive audit procedures, we assessed the income and expenses on intercompany services in accordance with the terms of the contract by reconciling the invoices with the corresponding performance and expense statements on the basis of a representative sample. If the remuneration does not stipulate an agreed amount, we audited the basis of the calculation. We ensured that the internal group income and expenses are complete by reconciling the posted balances between the companies of Deutsche Börse Group.

We have reconciled the receivables and payables resulting from internal Group services as of the balance sheet date with the corresponding payables and receivables of the respective Group companies on a sample basis.

#### OUR OBSERVATIONS

The service relationships with the other companies of the Deutsche Börse Group are properly recorded and reported in the annual financial statements.

#### **Other Information**

The company's management, or the Supervisory Board, is responsible for the other information. The other information comprises:

the combined corporate governance statement, which is disclosed in the section "Combined corporate governance statement and corporate governance report". Other information also comprises the other parts of the annual report.

Our opinions on the annual financial statements and on the combined management report do not cover the other information and consequently we do not express an opinion or any other form of assurance conclusion thereon.

In connection with our audit, our responsibility is to read the other information and, in so doing, to consider whether the other information

- is materially inconsistent with the annual financial statements, with the audited disclosures in the combined management report or our knowledge obtained in the audit, or

- otherwise appears to be materially misstated.

### **Responsibilities of Management and the Supervisory Board for the Annual Financial Statements and the Combined Management Report**

Management is responsible for the preparation of the financial statements that comply, in all material respects, with the requirements of German commercial law applicable to business corporations, and that the financial statements give a true and fair view of the assets, liabilities, financial position and financial performance of the Company in compliance with German Legally Required Accounting Principles. In addition, management is responsible for such internal control as they, in accordance with German Legally Required Accounting Principles, have determined necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the annual financial statements, management is responsible for assessing the Company's ability to continue as a going concern. They also have the responsibility for disclosing, as applicable, matters related to going concern. In addition, they are responsible for financial reporting based on the going concern basis of accounting, provided no actual or legal circumstances conflict therewith.

Furthermore, management is responsible for the preparation of the combined management report that as a whole provides an appropriate view of the Company's position and is, in all material respects, consistent with the financial statements, complies with German legal requirements, and appropriately presents the opportunities and risks of future development. In addition, management is responsible for such arrangements and measures (systems) as they have considered are necessary to enable the preparation of a combined management report that is in accordance with the applicable German legal requirements, and to be able to provide sufficient appropriate evidence for the assertions in the combined management report.

The supervisory board is responsible for overseeing the Company's financial reporting process for the preparation of the annual financial statements and the combined management report.

### **Auditor's Responsibilities for the Audit of the Annual Financial Statements and the Combined Management Report**

Our objectives are to obtain reasonable assurance about whether the annual financial statements as a whole are free from material misstatement, whether due to fraud or error, and whether the combined management report as a whole provides an appropriate view of the Company's position and, in all material respects, is consistent with the financial statements and the knowledge obtained in the audit, complies with the German legal requirements, and appropriately presents the opportunities and risks of future development, as well as to issue an auditor's report that includes our opinions on the financial statements and on the combined management report.

Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Section 317 HGB and the EU Audit Regulation and in compliance with German Generally Accepted Standards for Financial Statement Audits promulgated by the Institut der Wirtschaftsprüfer (IDW), will always detect a material misstatement. 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 annual financial statements and this combined management report.

We exercise professional judgement and maintain professional scepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the annual financial statements and the combined management report, 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 opinions. 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 controls.
- Obtain an understanding of the internal control system relevant to the audit of the annual financial statements, and of arrangements and measures (system) relevant to the audit of the combined management report, 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 these systems.
- Evaluate the appropriateness of accounting policies used by management and the reasonableness of estimates made by management and related disclosures.
- 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 Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in the auditor's report to the related disclosures in the financial statements and in the combined management report or, if such disclosures are inadequate, to modify our respective opinions. 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 Company to cease to be able to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements present the underlying transactions and events in a manner that the financial statements give a true and fair view of the assets, liabilities, financial position, and financial performance of the Company in compliance with German Legally Required Accounting Principles.
- Evaluate the consistency of the combined management report with the financial statements, its conformity with German law, and the view of the Company's position it provides.
- Perform audit procedures on the prospective information presented by management in the consolidated management report. On the basis of sufficient appropriate audit evidence, we evaluate in particular, the significant assumptions used by management as a basis for the prospective information and evaluate the proper derivation of the prospective information from these assumptions. We do not express a separate opinion on the prospective information and on the assumptions used as a basis. There is a substantial unavoidable risk that future events will differ materially from the prospective information.

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 the relevant independence requirements, and communicate with them all relationships and other matters that may reasonably be thought to bear on our independence and, where applicable, the related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter.

## **Other Legal and Regulatory Requirements**

### **Further information pursuant to Article 10 of the EU Audit Regulation**

We were elected as auditor by the annual general meeting on 8 May 2019. We were engaged by the audit committee of the Supervisory Board on 28 June 2019. In compliance with the transitional provisions of Article 41 section 2 of the EU Audit Regulations, we have been the auditor of Deutsche Börse AG without interruption since the 2001 financial year.

We declare that the opinions expressed in this auditor's report are consistent with the additional report to the audit committee pursuant to Article 11 of the EU Audit Regulation (long form audit report).

In addition to the annual financial statements, we audited the consolidated financial statements of Deutsche Börse AG and carried out various annual audits of subsidiaries. The audits included reviews of interim financial statements and project-related audits for the implementation of new accounting standards. Other certification services relate to ISAE 3402 and ISAE 3000 reports, audits of financial statements in the context of M&A activities, and statutory or contractual audits such as audits under the WpHG, KWG and other contractually agreed assurance services.

Tax services include assistance in the preparation of tax returns, tax appraisals and advice on individual matters, and tax advice related to the external audit. In addition, we have supported the implementation of regulatory requirements with quality assurance.

## **German Public Auditor Responsible for the Engagement**

The German Public Auditor responsible for the engagement is Klaus-Ulrich Pfeiffer.

Frankfurt am Main, 6 March 2020

KPMG AG

Wirtschaftsprüfungsgesellschaft

Leitz  
Wirtschaftsprüfer  
[German Public Auditor]

Pfeiffer  
Wirtschaftsprüfer  
[German Public Auditor]

## Responsibility Statement by the Executive Board

To the best of our knowledge, and in accordance with the applicable reporting principles, the financial statements of Deutsche Börse Aktiengesellschaft give a true and fair view of the assets, liabilities, financial position and profit and loss of the company, and the management report includes a fair review of the development and performance of the business and the position of the company, together with a description of the principal opportunities and risks associated with the expected development of the company.

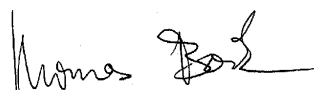
Frankfurt/Main, 6 March 2020

Deutsche Börse Aktiengesellschaft

The Executive Board

  
Dr Theodor Weimer

  
Dr Christoph Böhm

  
Dr Thomas Book

  
Dr Stephan Leithner

  
Gregor Pottmeyer

  
Hauke Stars