

# Consolidated financial statements

## Consolidated statement of financial position

millions of €	Note	Dec. 31, 2023	Dec. 31, 2022
<b>Assets</b>			
<b>Current assets</b>		<b>36,363</b>	<b>39,144</b>
Cash and cash equivalents	<u>1</u>	7,274	5,767
Trade receivables	<u>2</u>	16,157	16,766
Contract assets	<u>3</u>	2,426	2,410
Current recoverable income taxes	<u>32</u>	214	213
Other financial assets	<u>11</u>	5,453	4,865
Inventories	<u>4</u>	2,419	2,639
Other assets	<u>12</u>	2,210	1,800
Non-current assets and disposal groups held for sale	<u>5</u>	211	4,683
<b>Non-current assets</b>		<b>253,942</b>	<b>259,446</b>
Intangible assets	<u>6</u>	136,004	140,600
Property, plant and equipment	<u>7</u>	65,042	65,729
Right-of-use assets	<u>8</u>	32,826	33,727
Capitalized contract costs	<u>9</u>	3,511	3,205
Investments accounted for using the equity method	<u>10</u>	4,605	1,318
Other financial assets	<u>11</u>	4,140	5,044
Deferred tax assets	<u>32</u>	6,401	8,316
Other assets	<u>12</u>	1,413	1,507
<b>Total assets</b>		<b>290,305</b>	<b>298,590</b>

millions of €	Note	Dec. 31, 2023	Dec. 31, 2022
<b>Liabilities and shareholders' equity</b>			
<b>Current liabilities</b>		<b>36,065</b>	<b>45,389</b>
Financial liabilities	<u>13</u>	9,620	14,389
Lease liabilities	<u>13</u>	5,649	5,126
Trade and other payables	<u>14</u>	10,916	12,035
Income tax liabilities	<u>32</u>	683	801
Other provisions	<u>16</u>	3,835	4,412
Other liabilities	<u>17</u>	3,444	3,412
Contract liabilities	<u>18</u>	1,919	1,868
Liabilities directly associated with non-current assets and disposal groups held for sale	<u>5</u>	0	3,347
<b>Non-current liabilities</b>		<b>163,003</b>	<b>165,881</b>
Financial liabilities	<u>13</u>	94,903	98,641
Lease liabilities	<u>13</u>	35,144	33,666
Provisions for pensions and other employee benefits	<u>15</u>	4,060	4,150
Other provisions	<u>16</u>	4,265	3,792
Deferred tax liabilities	<u>32</u>	21,918	22,800
Other liabilities	<u>17</u>	1,872	2,171
Contract liabilities	<u>18</u>	840	663
<b>Liabilities</b>		<b>199,068</b>	<b>211,270</b>
<b>Shareholders' equity</b>	<u>19</u>	<b>91,237</b>	<b>87,320</b>
Issued capital		12,765	12,765
Treasury shares		(20)	(35)
		<b>12,745</b>	<b>12,730</b>
Capital reserves		56,786	61,532
Retained earnings including carryforwards		(29,869)	(34,489)
Total other comprehensive income		(525)	783
Net profit (loss)		17,788	8,001
<b>Issued capital and reserves attributable to owners of the parent</b>		<b>56,925</b>	<b>48,558</b>
Non-controlling interests		34,312	38,762
<b>Total liabilities and shareholders' equity</b>		<b>290,305</b>	<b>298,590</b>

## Consolidated income statement

millions of €				
	Note	2023	2022	2021
<b>Net revenue</b>	<u>20</u>	<b>111,970</b>	<b>114,197</b>	<b>107,610</b>
Of which: interest income calculated using the effective interest method		662	589	276
Of which: revenue from insurance contracts	<u>41</u>	4,533	4,583	2,747
Other operating income	<u>21</u>	1,384	4,653	1,300
Changes in inventories	<u>22</u>	(6)	26	(8)
Own capitalized costs	<u>23</u>	2,721	2,852	2,841
Goods and services purchased	<u>24</u>	(47,201)	(52,926)	(49,418)
Personnel costs	<u>25</u>	(19,077)	(19,371)	(18,394)
Other operating expenses	<u>26</u>	(5,019)	(6,383)	(4,261)
Impairment losses on financial assets, contract assets, and lease assets		(1,149)	(1,235)	(637)
Gains (losses) from the write-off of financial assets measured at amortized cost		(14)	(24)	(122)
Other		(3,856)	(5,124)	(3,502)
<b>EBITDA</b>		<b>44,772</b>	<b>43,049</b>	<b>39,671</b>
Depreciation, amortization and impairment losses	<u>27</u>	(23,975)	(27,635)	(27,091)
<b>Profit (loss) from operations (EBIT)</b>	<u>28</u>	<b>20,798</b>	<b>15,414</b>	<b>12,580</b>
Finance costs	<u>29</u>	(5,719)	(5,292)	(4,416)
Interest income		870	387	611
Interest expense		(6,588)	(5,679)	(5,027)
Share of profit (loss) of associates and joint ventures accounted for using the equity method	<u>30</u>	(2,766)	(524)	(102)
Other financial income (expense)	<u>31</u>	(345)	1,379	(435)
<b>Profit (loss) from financial activities</b>		<b>(8,829)</b>	<b>(4,437)</b>	<b>(4,953)</b>
<b>Profit (loss) before income taxes</b>		<b>11,968</b>	<b>10,977</b>	<b>7,628</b>
Income taxes	<u>32</u>	(3,672)	(1,937)	(1,732)
<b>Profit (loss) after taxes from continuing operations</b>		<b>8,296</b>	<b>9,039</b>	<b>5,896</b>
<b>Profit (loss) after taxes from discontinued operation</b>	<u>33</u>	<b>13,696</b>	<b>443</b>	<b>207</b>
<b>Profit (loss)</b>		<b>21,992</b>	<b>9,482</b>	<b>6,103</b>
<b>Profit (loss) attributable to</b>				
Owners of the parent (net profit (loss))		17,788	8,001	4,176
Non-controlling interests	<u>34</u>	4,204	1,481	1,927
<b>Earnings per share</b>	<u>36</u>			
Profit (loss) from continuing operations attributable to the owners of the parent (net profit (loss))	millions of €	4,092	7,558	3,969
Profit (loss) from discontinued operation attributable to the owners of the parent (net profit (loss))	millions of €	13,696	443	207
Profit (loss) attributable to the owners of the parent (net profit (loss))	millions of €	17,788	8,001	4,176
Adjusted weighted average number of ordinary shares outstanding (basic and diluted)	millions	4,976	4,972	4,813
<b>Earnings per share from continuing operations (basic and diluted)</b>	€	<b>0.82</b>	<b>1.52</b>	<b>0.82</b>
<b>Earnings per share from discontinued operation (basic and diluted)</b>	€	<b>2.75</b>	<b>0.09</b>	<b>0.04</b>
<b>Earnings per share (basic and diluted)</b>	€	<b>3.57</b>	<b>1.61</b>	<b>0.87</b>

The GD tower companies had been recognized in the interim consolidated financial statements as a discontinued operation from the third quarter of 2022 until their sale on February 1, 2023. Prior-year comparatives were adjusted retrospectively.

## Consolidated statement of comprehensive income

millions of €	2023	2022	2021
<b>Profit (loss)</b>	<b>21,992</b>	<b>9,482</b>	<b>6,103</b>
<b>Items not subsequently reclassified to profit or loss (not recycled)</b>			
Gains (losses) from the remeasurement of equity instruments	(70)	(46)	112
Gains (losses) from the remeasurement of defined benefit plans	18	1,841	1,426
Income taxes relating to components of other comprehensive income	63	(835)	(261)
	<b>12</b>	<b>961</b>	<b>1,278</b>
<b>Items subsequently reclassified to profit or loss (recycled), if certain reasons are given</b>			
Exchange differences on translating foreign operations			
Recognition of other comprehensive income in income statement	4	0	61
Change in other comprehensive income (not recognized in income statement)	(2,094)	4,071	5,142
Gains (losses) from the remeasurement of debt instruments			
Recognition of other comprehensive income in income statement	921	1,037	417
Change in other comprehensive income (not recognized in income statement)	(838)	(1,060)	(497)
Gains (losses) from hedging instruments (designated risk components)			
Recognition of other comprehensive income in income statement	(33)	123	17
Change in other comprehensive income (not recognized in income statement)	(251)	762	296
Gains (losses) from hedging instruments (hedging costs) <sup>a</sup>			
Recognition of other comprehensive income in income statement	1	1	2
Change in other comprehensive income (not recognized in income statement)	(25)	(51)	60
Share of profit (loss) of investments accounted for using the equity method			
Recognition of other comprehensive income in income statement	(4)	0	0
Change in other comprehensive income (not recognized in income statement)	(22)	0	0
Income taxes relating to components of other comprehensive income	69	(231)	(81)
	<b>(2,273)</b>	<b>4,654</b>	<b>5,417</b>
<b>Other comprehensive income</b>	<b>(2,262)</b>	<b>5,615</b>	<b>6,694</b>
<b>Total comprehensive income</b>	<b>19,730</b>	<b>15,097</b>	<b>12,798</b>
<b>Total comprehensive income attributable to</b>			
Owners of the parent	16,531	11,272	8,010
Non-controlling interests	3,199	3,825	4,788

<sup>a</sup> The hedging costs relate entirely to cross-currency basis spreads. For further information, please refer to Note 43 "Financial instruments and risk management."

## Consolidated statement of changes in equity

millions of €

	Issued capital and reserves attributable to owners of the parent														Total	Non-controlling interests	Total shareholders' equity
	Equity contributed			Consolidated shareholders' equity generated				Total other comprehensive income									
	Number of shares thousands	Issued capital	Treasury shares	Capital reserves	Retained earnings including carryforwards	Net profit (loss)	Translation of foreign operations	Revaluation surplus	Equity instruments measured at fair value	Debt instruments measured at fair value	Hedging instruments: designated risk components (IFRS 9)	Hedging instruments: hedging costs (IFRS 9)	Investments accounted for using the equity method	Taxes			
									through other comprehensive income (IFRS 9)	through other comprehensive income (IFRS 9)							
<b>Balance at January 1, 2021</b>	4,761,459	12,189	(46)	62,640	(38,905)	4,158	(4,092)	(14)	156	0	(223)	24	0	34	35,922	36,628	72,550
Changes in the composition of the Group															0	(181)	(181)
Transactions with owners				(183)							5			(1)	(179)	(48)	(227)
Unappropriated profit (loss) carried forward					4,158	(4,158)									0	0	0
Dividends					(2,846)										(2,846)	(292)	(3,138)
Capital increase at Deutsche Telekom AG	225,000	576		1,063			(83)				(64)			19	1,511	(2,358)	(847)
Capital increase from share-based payment				253											253	252	505
Share buy-back/shares held in a trust deposit			9												9	0	9
Profit (loss)						4,176									4,176	1,927	6,103
Other comprehensive income					1,125		2,427		107	(37)	227	62		(77)	3,833	2,861	6,694
<b>Total comprehensive income</b>															<b>8,010</b>	<b>4,788</b>	<b>12,798</b>
Transfer to retained earnings					110			6	(120)					3	0	0	0
<b>Balance at December 31, 2021</b>	4,986,459	12,765	(37)	63,773	(36,358)	4,176	(1,747)	(7)	143	(37)	(56)	86	0	(22)	42,679	38,790	81,469
<b>Balance at January 1, 2022</b>	4,986,459	12,765	(37)	63,773	(36,358)	4,176	(1,747)	(7)	143	(37)	(56)	86	0	(22)	42,679	38,790	81,469
Changes in the composition of the Group															0	(583)	(583)
Transactions with owners				(2,598)			57			(3)	(37)			12	(2,569)	(3,428)	(5,997)
Unappropriated profit (loss) carried forward					4,176	(4,176)									0	0	0
Dividends					(3,182)										(3,182)	(197)	(3,379)
Capital increase at Deutsche Telekom AG															0	0	0
Capital increase from share-based payment				357											357	355	711
Share buy-back/shares held in a trust deposit			2												2	0	2
Profit (loss)						8,001									8,001	1,481	9,482
Other comprehensive income					892		1,911		(45)	(10)	787	(50)		(214)	3,271	2,344	5,615
<b>Total comprehensive income</b>															<b>11,272</b>	<b>3,825</b>	<b>15,097</b>
Transfer to retained earnings					(17)			7	12					(2)	0	0	0
<b>Balance at December 31, 2022</b>	4,986,459	12,765	(35)	61,532	(34,489)	8,001	221	0	109	(50)	695	35	0	(227)	48,558	38,762	87,320

millions of €

	Issued capital and reserves attributable to owners of the parent													Total	Non-controlling interests	Total shareholders' equity	
	Equity contributed			Consolidated shareholders' equity generated				Total other comprehensive income									
	Number of shares thousands	Issued capital	Treasury shares	Capital reserves	Retained earnings including carryforwards	Net profit (loss)	Translation of foreign operations	Revaluation surplus	Equity instruments measured at fair value through other comprehensive income (IFRS 9)	Debt instruments measured at fair value through other comprehensive income (IFRS 9)	Hedging instruments: designated risk components (IFRS 9)	Hedging instruments: hedging costs (IFRS 9)	Investments accounted for using the equity method				Taxes
<b>Balance at January 1, 2023</b>	<b>4,986,459</b>	<b>12,765</b>	<b>(35)</b>	<b>61,532</b>	<b>(34,489)</b>	<b>8,001</b>	<b>221</b>	<b>0</b>	<b>109</b>	<b>(50)</b>	<b>695</b>	<b>35</b>	<b>0</b>	<b>(227)</b>	<b>48,558</b>	<b>38,762</b>	<b>87,320</b>
Changes in the composition of the Group															0	(4)	(4)
Transactions with owners				(5,128)			68			(2)	(24)			8	(5,078)	(7,378)	(12,456)
Unappropriated profit (loss) carried forward					8,001	(8,001)									0	0	0
Dividends					(3,483)										(3,483)	(547)	(4,030)
Capital increase at Deutsche Telekom AG															0	0	0
Capital increase from share-based payment				382											382	280	662
Share buy-back/shares held in a trust deposit			15												15	0	15
Profit (loss)						17,788									17,788	4,204	21,992
Other comprehensive income					95		(1,009)		(66)	42	(380)	(24)	(26)	112	(1,257)	(1,005)	(2,262)
<b>Total comprehensive income</b>															<b>16,531</b>	<b>3,199</b>	<b>19,730</b>
Transfer to retained earnings					7				(7)					(1)	0	0	0
<b>Balance at December 31, 2023</b>	<b>4,986,459</b>	<b>12,765</b>	<b>(20)</b>	<b>56,786</b>	<b>(29,869)</b>	<b>17,788</b>	<b>(720)</b>	<b>0</b>	<b>36</b>	<b>(10)</b>	<b>291</b>	<b>12</b>	<b>(26)</b>	<b>(108)</b>	<b>56,925</b>	<b>34,312</b>	<b>91,237</b>

## Consolidated statement of cash flows

millions of €	Note	2023	2022	2021
<b>Profit (loss) before income taxes</b>	<b>37</b>	<b>24,957</b>	<b>11,703</b>	<b>7,918</b>
Depreciation, amortization and impairment losses		23,975	27,827	27,482
(Profit) loss from financial activities		8,845	4,455	5,139
(Profit) loss on the disposal of fully consolidated subsidiaries		(12,927)	(2,661)	(130)
(Income) loss from the sale of stakes accounted for using the equity method		(235)	(71)	(13)
Other non-cash transactions		543	1,508	226
(Gains) losses from the disposal of intangible assets and property, plant and equipment		43	(76)	161
Change in assets carried as operating working capital		720	(600)	(1,475)
Change in other operating assets		(611)	(813)	(1,059)
Change in provisions		(821)	117	(152)
Change in liabilities carried as operating working capital		(500)	789	241
Change in other operating liabilities		212	(60)	(260)
Income taxes received (paid)		(1,312)	(902)	(893)
Dividends received		31	11	8
Net payments from entering into, canceling or changing the terms and conditions of interest rate derivatives		(94)	0	(1)
<b>Cash generated from operations</b>		<b>42,826</b>	<b>41,228</b>	<b>37,191</b>
Interest paid		(7,729)	(6,756)	(6,158)
Interest received		2,201	1,347	1,138
<b>Net cash from operating activities</b>		<b>37,298</b>	<b>35,819</b>	<b>32,171</b>
Of which: from discontinued operation		80	712	808
Cash outflows for investments in				
Intangible assets		(5,560)	(7,551)	(12,749)
Property, plant and equipment		(12,306)	(16,563)	(13,616)
Non-current financial assets		(326)	(683)	(336)
Payments for publicly funded investments in the broadband build-out		(338)	(377)	(436)
Proceeds from public funds for investments in the broadband build-out		444	435	420
Changes in cash and cash equivalents in connection with the acquisition of control of subsidiaries and associates		(4)	(52)	(1,617)
Proceeds from disposal of				
Intangible assets		95	3	2
Property, plant and equipment		110	436	137
Non-current financial assets		473	173	352
Changes in cash and cash equivalents in connection with the loss of control of subsidiaries and associates		7,629	4,208	352
Net change in short-term investments and marketable securities and receivables		(430)	(2,335)	89
Other		(1)	1	0
<b>Net cash (used in) from investing activities</b>		<b>(10,213)</b>	<b>(22,306)</b>	<b>(27,403)</b>
Of which: from discontinued operation		(17)	(277)	(296)
Proceeds from issue of current financial liabilities		816	9,686	4,431
Repayment of current financial liabilities		(12,700)	(15,528)	(18,040)
Proceeds from issue of non-current financial liabilities		10,973	4,534	12,925
Repayment of non-current financial liabilities		(1,992)	0	0
Dividend payments (including to other shareholders of subsidiaries)		(4,027)	(3,385)	(3,145)
Principal portion of repayment of lease liabilities		(5,904)	(4,951)	(6,458)
Cash inflows from transactions with non-controlling entities		30	29	14
Cash outflows from transactions with non-controlling entities		(12,730)	(5,823)	(506)
Other		0	0	0
<b>Net cash (used in) from financing activities</b>		<b>(25,534)</b>	<b>(15,438)</b>	<b>(10,779)</b>
Of which: from discontinued operation		(74)	(192)	(193)
Effect of exchange rate changes on cash and cash equivalents		(68)	93	620
Changes in cash and cash equivalents associated with non-current assets and disposal groups held for sale		25	(18)	68
<b>Net increase (decrease) in cash and cash equivalents</b>		<b>1,507</b>	<b>(1,850)</b>	<b>(5,323)</b>
<b>Cash and cash equivalents, at the beginning of the year</b>		<b>5,767</b>	<b>7,617</b>	<b>12,939</b>
<b>Cash and cash equivalents, at the end of the year</b>		<b>7,274</b>	<b>5,767</b>	<b>7,617</b>

The GD tower companies had been recognized in the interim consolidated financial statements as a discontinued operation from the third quarter of 2022 until their sale on February 1, 2023. The consolidated statement of cash flows includes the discontinued operation in the Group Development operating segment. The top line of the consolidated statement of cash flows is profit before income taxes, which includes the profit of both the continuing operations and the discontinued operation. In the consolidated statement of cash flows, the contributions by the GD tower companies are each stated in a separate "of which" line item.

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## Summary of accounting policies

### General information

Deutsche Telekom AG (hereinafter referred to as “Deutsche Telekom” or the “Group”) is one of the world’s leading service providers in the telecommunications and information technology sector. Deutsche Telekom offers its customers all kinds of products and services for connected life and work. The Group reports on the operating segments Germany, United States, Europe, Systems Solutions, and Group Development, as well as on the Group Headquarters & Group Services segment.

The Company was entered into the commercial register of the Bonn District Court (Amtsgericht – HRB 6794) as a stock corporation under the name Deutsche Telekom AG on January 2, 1995.

The Company has its registered office in Bonn, Germany. Its address is Deutsche Telekom AG, Friedrich-Ebert-Allee 140, 53113 Bonn.

The Declaration of Conformity with the German Corporate Governance Code required pursuant to § 161 of the German Stock Corporation Act (Aktiengesetz – AktG) has been released and made available to shareholders. The Declaration of Conformity can also be found on the website of Deutsche Telekom in accordance with § 161 AktG.

<https://www.telekom.com/en/investor-relations/management-and-corporate-governance/reports-and-declarations>

The shares of Deutsche Telekom AG are traded on the Frankfurt/Main Stock Exchange as well as on other stock exchanges.

The annual financial statements as well as the consolidated financial statements of Deutsche Telekom AG, which have an unqualified audit opinion from Deloitte GmbH Wirtschaftsprüfungsgesellschaft, Munich, are published in the Company Register. The Annual Report is available on Deutsche Telekom’s website.

<https://www.telekom.com/en/investor-relations/publications>

The consolidated financial statements of Deutsche Telekom for the 2023 financial year were released for publication by the Board of Management on February 13, 2024.

### Basis of preparation

The consolidated financial statements of Deutsche Telekom are prepared in accordance with the International Financial Reporting Standards (IFRS) as adopted by the European Union (EU), as well as with the regulations under commercial law as set forth in § 315e (1) of the German Commercial Code (Handelsgesetzbuch – HGB). The term IFRS is consistently used in the following.

The financial year corresponds to the calendar year. The consolidated statement of financial position includes comparative amounts for one reporting date. The consolidated income statement, the consolidated statement of comprehensive income, the consolidated statement of changes in equity, and the consolidated statement of cash flows include two comparative years.

Presentation in the statement of financial position differentiates between current and non-current assets and liabilities, which – where required – are broken down further by their respective maturities in the notes to the consolidated financial statements. The consolidated income statement is presented using the total cost method. Here, the costs incurred in the financial year are broken down by cost type and the costs capitalized under inventories as well as under intangible assets and property, plant and equipment are presented separately as changes in inventories or own capitalized costs. The consolidated financial statements are prepared in euros.

The financial statements of Deutsche Telekom AG and its subsidiaries included in the consolidated financial statements were prepared using uniform group accounting policies.

The financial statements are prepared on a going concern basis.



## Initial application of standards, interpretations, and amendments in the financial year

Pronouncement	Title	To be applied by Deutsche Telekom from	Changes	Impact on the presentation of Deutsche Telekom's results of operations and financial position
<b>IFRSs endorsed by the EU</b>				
IFRS 17	Insurance Contracts	Jan. 1, 2023	IFRS 17 governs the accounting for insurance contracts and replaces IFRS 4.	No material impact.
Amendments to IFRS 17	Insurance Contracts	Jan. 1, 2023	The initial application of IFRS 17 was postponed until January 1, 2023. The fundamental principles under IFRS 17 remain unaffected. The amendments to IFRS 17 are aimed at helping entities implement the standard and, at the same time, avoiding a significant loss of useful information. The option for companies to delay application of IFRS 9 until the initial application of IFRS 17 has also been extended until January 1, 2023.	No material impact.
Amendments to IFRS 17	Initial Application of IFRS 17 and IFRS 9 – Comparative information	Jan. 1, 2023	The supplementary transition option relating to comparatives in the first reporting year allows for the option of a different classification pursuant to IFRS 9 (classification overlay) for the comparative periods in the year of first-time application of both standards. In addition, for financial assets that relate to insurance contracts, existing classification options under IFRS 9 can be exercised again if IFRS 9 was applied prior to the first-time application of IFRS 17.	No material impact.
Amendments to IAS 1 and IFRS Practice Statement 2	Presentation of Financial Statements	Jan. 1, 2023	The amendments to IAS 1 require entities to disclose their material accounting policies rather than their significant accounting policies. The amendments to IFRS Practice Statement 2 “Making Materiality Judgements” contain guidance on applying materiality judgments to accounting policy disclosures.	No material impact.
Amendments to IAS 8	Definition of Accounting Estimates	Jan. 1, 2023	The amendments relate to the definition of accounting estimates. It is clarified how entities can distinguish between changes to accounting policies and to accounting estimates.	No material impact.
Amendments to IAS 12	Deferred Tax related to Assets and Liabilities arising from a Single Transaction	Jan. 1, 2023	IAS 12 provides for exemptions to the recognition of deferred taxes in specific cases. It was previously unclear as to whether the initial recognition exemptions also apply for transactions in which the initial recognition of an asset and a liability gives rise to equal taxable and deductible temporary differences. The exemptions apply specifically to leases and restoration obligations. The IASB now clarifies that the exemption relating to the recognition of deferred taxes is not applicable in the aforementioned cases.	No material impact.
Amendments to IAS 12	Income taxes: International Tax Reform – Pillar Two Model Rules	Jan. 1, 2023	The amendments introduce a temporary exception to the accounting for deferred taxes arising from the jurisdictions implementing the global tax rules. The amendments require an entity to disclose that it has applied the temporary exception. The amendments also introduce targeted disclosure requirements for affected entities to help users of the financial statements better understand an entity's exposure to income taxes arising from legal regulations to ensure minimum taxation levels globally (under the OECD Pillar Two Model Rules), particularly before legislation implementing these rules takes effect.	No material impact. For further information, please refer to Note 32 “Income taxes.”

## Standards, interpretations, and amendments issued, but not yet to be applied

Pronouncement	Title	To be applied by Deutsche Telekom from	Changes	Expected impact on the presentation of Deutsche Telekom's results of operations and financial position
<b>IFRSs endorsed by the EU</b>				
Amendments to IFRS 16	Lease Liability in a Sale and Leaseback	Jan. 1, 2024	The provisions require a seller-lessee to subsequently measure lease liabilities arising from a sale and leaseback transaction in a way that it does not recognize any amount of the gain or loss that relates to the right of use it retains. The requirements for initial measurement of the right-of-use asset have not been amended. By contrast, the change to the subsequent measurement of the lease liability requires variable lease payments that do not depend on an index or interest rate to also be considered in the initial measurement of the lease liability from a sale and leaseback transaction.	No material impact.
Amendments to IAS 1	Classification of Liabilities as Current or Non-current	Jan. 1, 2024	The amendments clarify that the classification of liabilities as current or non-current should be based on rights that are in existence at the end of the reporting period. The amendment also clarifies the definition of settlement of a liability.	No material impact.
Amendments to IAS 1	Non-current Liabilities with Covenants	Jan. 1, 2024	The amendments clarify that covenants in loan agreements with which an entity is required to comply only after the reporting date do not affect the classification of a liability on the reporting date as current or non-current. By contrast, covenants with which an entity must comply on or before the reporting date affect the classification.	No material impact.
<b>IFRSs not yet endorsed by the EU<sup>a</sup></b>				
Amendments to IAS 7 and IFRS 7	Supplier Finance Arrangements	Jan. 1, 2024	The subject of the amendments is supplier finance arrangements, especially reverse factoring arrangements. The amendments created additional disclosure requirements in accordance with IAS 7 and IFRS 7 to increase transparency about the impact that supply finance arrangements have on an entity's liabilities, cash flows, and liquidity risk.	No material impact.
Amendments to IAS 21	Lack of Exchangeability	Jan. 1, 2025	The amendments amend IAS 21 to <ul style="list-style-type: none"> <li>– specify when a currency is exchangeable into another currency and when it is not;</li> <li>– specify how an entity determines the exchange rate to apply when a currency is not exchangeable; and</li> <li>– require the disclosure of additional information when a currency is not exchangeable.</li> </ul>	No impact.

<sup>a</sup> For standards not yet endorsed by the EU, the date of first-time adoption scheduled by the IASB is assumed for the time being as the likely date of first-time adoption.

## Changes in accounting policies and changes in the reporting structure

Deutsche Telekom did not make any major changes to its accounting policies in the reporting period. The following change was made to the reporting structure:

**Change in reporting of revenue by revenue categories.** Effective January 1, 2023, the previously reported breakdown of revenues by revenue category (from the rendering of services, from the sale of goods and merchandise, and from the use of entity assets by others) was replaced by a breakdown into service revenues and non-service revenues in line with the Group's management model. In addition, effective January 1, 2023, the definition of service revenues was extended as follows: Certain software revenues generated with ICT business in the Systems Solutions and Europe operating segments, as well as in the Group Headquarters & Group Services segment, have been included since this date. Prior-year comparatives have been adjusted retrospectively.

For further information on revenue, please refer to Note 20 "Net revenue."

## Accounting policies

Key assets and liabilities shown in the consolidated statement of financial position are measured as follows:

Items in the statement of financial position	Measurement principle
<b>Assets</b>	
<b>Current assets</b>	
Cash and cash equivalents	Amortized cost
Trade receivables	Depending on the underlying business model in each case: at amortized cost, at fair value through other comprehensive income with recycling to profit or loss, or at fair value through profit or loss
Contract assets	Amortized cost
Current recoverable income taxes	Amount expected to be recovered from the taxation authorities, using the tax rates that have been enacted or substantively enacted by the end of the reporting period
Other financial assets	
Originated loans and other receivables	Depending on the underlying business model in each case: at amortized cost, at fair value through other comprehensive income with recycling to profit or loss, or at fair value through profit or loss
Derivative financial assets	At fair value through profit or loss or, in the case of certain hedging relationships, at fair value through other comprehensive income with recycling to profit or loss
Inventories	Lower of net realizable value and cost
Non-current assets and disposal groups held for sale	Lower of carrying amount or fair value less costs of disposal (including allocable liabilities)
<b>Non-current assets</b>	
Intangible assets	
Of which: with finite useful lives	Amortized cost or lower recoverable amount
Of which: with indefinite useful lives (including goodwill)	Cost or lower recoverable amount (impairment-only approach)
Property, plant and equipment	Amortized cost or lower recoverable amount
Right-of-use assets	Amortized cost or lower recoverable amount
Capitalized contract costs	Amortized cost or lower recoverable amount
Investments accounted for using the equity method	Pro rata value of the investment's equity carried forward or lower recoverable amount
Other financial assets	
Originated loans and other receivables	Depending on the underlying business model in each case: at amortized cost, at fair value through other comprehensive income with recycling to profit or loss, or at fair value through profit or loss
Equity instruments	Fair value through other comprehensive income without recycling to profit or loss
Derivative financial assets	At fair value through profit or loss or, in the case of specific hedge accounting, at fair value through other comprehensive income with recycling to profit or loss
Deferred tax assets	Non-discounted amount measured at the tax rates that are expected to apply to the period when the asset is realized or the liability settled

Items in the statement of financial position	Measurement principle
<b>Liabilities</b>	
<b>Current liabilities</b>	
Financial liabilities	
Non-derivative interest-bearing and non-interest-bearing liabilities	Amortized cost
Derivative financial liabilities	At fair value through profit or loss or, in the case of certain hedging relationships, at fair value through other comprehensive income with recycling to profit or loss
Lease liabilities	Amortized cost
Trade payables	Amortized cost
Income tax liabilities	Amount expected to be paid to the taxation authorities, using the tax rates that have been enacted or substantively enacted by the end of the reporting period
Other provisions	Present value of the settlement amount
Contract liabilities	Amortized cost
<b>Non-current liabilities</b>	
Financial liabilities	
Non-derivative interest-bearing and non-interest-bearing liabilities	Amortized cost
Derivative financial liabilities	At fair value through profit or loss or, in the case of certain hedging relationships, at fair value through other comprehensive income with recycling to profit or loss
Lease liabilities	Amortized cost
Provisions for pensions and other employee benefits	Actuarial projected unit credit method
Other provisions	Present value of the settlement amount
Contract liabilities	Amortized cost
Deferred tax liabilities	Non-discounted amount measured at the tax rates that are expected to apply to the period when the asset is realized or the liability settled

The material principles on recognition and measurement set out below were applied uniformly to all accounting periods presented in these consolidated financial statements.

### Intangible assets

Intangible assets with finite useful lives, including 5G, LTE, UMTS, and GSM licenses, are measured at cost and generally amortized on a straight-line basis over their useful lives. Such assets are impaired if their recoverable amount, which is measured at the higher of fair value less costs of disposal and value in use, is lower than the carrying amount. Indefinite-lived intangible assets (mobile communications licenses granted by the Federal Communications Commission in the United States (FCC licenses)) are carried at cost. While FCC licenses are issued for a fixed time, renewals of FCC licenses have occurred routinely and at negligible costs. Moreover, Deutsche Telekom has determined that there are currently no legal, regulatory, contractual, competitive, economic, or other factors that limit the useful lives of the FCC licenses, and therefore treats the FCC licenses as an indefinite-lived intangible asset. They are not amortized, but tested for impairment annually or whenever there are indications of impairment and, if necessary, written down to the recoverable amount. If the reasons for recognizing the original impairment loss no longer apply, impairment losses are reversed taking amortization into account, i.e., not exceeding the value that would have been applied if no impairment losses had been recognized in prior periods.

Intangible assets may also be acquired in connection with a frequency or spectrum exchange. The costs of intangible assets acquired in such a barter transaction are measured at fair value if the swap has commercial substance and the fair value of the asset received and the asset given up is reliably measurable. If the exchange transaction lacks commercial substance or the fair value of neither the asset received nor the asset given up is reliably measurable, the carrying amount of the asset given up is used as the acquisition costs of the asset received.

Limited-term spectrum leases normally satisfy the recognition criteria because the lessors fulfill their performance obligations on entering into the contract, which means there are no more executory contracts. Acquired television, film, and sports rights (media broadcasting rights) are also recognized on a regular basis.

On initial recognition, the intangible asset and the corresponding financial liability are measured only on the basis of the minimum contract term. Where a right of termination exists, only the period up to the earliest possible termination is considered on initial recognition. Where a right of renewal exists, the renewal period is not considered on initial recognition.

The useful lives and the amortization methods of the intangible assets are reviewed at least at each financial year-end. In accordance with IAS 8, any changes are recognized prospectively as changes in accounting estimates.

Amortization of mobile communications licenses begins as soon as the related network is ready for use. The useful lives of mobile communications licenses are determined based on several factors, including the term of the licenses granted by the respective regulatory body in each country, the availability and expected cost of renewing the licenses, as well as the development of future technologies.

The useful lives of Deutsche Telekom's most important mobile communications licenses are as follows:

Mobile communications licenses	Years
FCC licenses	Indefinite
5G licenses	19 to 23
LTE licenses	6 to 25
UMTS licenses	17 to 19
GSM licenses	7 to 27

Expenditures for internally generated intangible assets incurred during the development phase are capitalized if they meet the criteria for recognition as assets, and are amortized over their expected useful lives. Research expenditures are expensed as incurred. Development is the application of research findings or other knowledge to a plan or design for the production of new or substantially improved materials, devices, products, processes, systems, or services prior to the commencement of commercial production or use. Examples of activities typically included in development are the design, construction, and testing of pre-production or pre-use prototypes and models involving new technology. The development phase is deemed complete when the responsible functional unit has formally documented that the capitalized asset is ready for its intended use.

Goodwill is not amortized, but is tested for impairment based on the recoverable amount of the cash-generating unit to which the goodwill is allocated (impairment-only approach). The impairment test is carried out on a regular basis at the end of each financial year, as well as whenever there are indications that a carrying amount of the cash-generating unit is impaired. An impairment loss recognized for goodwill may not be reversed or reduced in subsequent reporting periods.

### Property, plant and equipment

Property, plant and equipment is carried at cost less straight-line depreciation, and impairment losses, if applicable. The depreciation period is based on the expected useful life of the assets. Items of property, plant and equipment are depreciated pro rata temporis in the year of acquisition. The residual values, useful lives, and the depreciation methods of the assets are reviewed at least at each financial year-end. In accordance with IAS 8, any changes are recognized prospectively as changes in accounting estimates. In addition to directly attributable material and labor costs, the costs of internally developed assets also include overhead costs relating to production or the provision of services. In addition to the purchase price and costs directly attributable to bringing the asset to the location and condition necessary for it to be capable of operating in the manner intended by management, costs also include the estimated costs for dismantling and removing the asset, and restoring the site on which it is located. If an item of property, plant and equipment consists of several components with different estimated useful lives, those components that are significant are depreciated over their individual useful lives. Maintenance and repair costs are expensed as incurred. If an asset is owned and a portion is used as an item of property, plant and equipment while another physically distinct portion of the owned asset is leased under an operating lease (e.g., office floors of a building or individual optical fibers of a cable), the portion of the asset that is leased is not presented separately.

Public investment grants reduce the cost of the property, plant and equipment for which the grants were made. Investment grants are recognized when there is reasonable assurance that the entity will comply with the conditions attached to them, and the grants will be received in the full amount. If this reasonable assurance already exists when the contract is being concluded, the grant is recognized in full under other financial assets upon conclusion of the agreement, with a matching non-financial other liability for the build-out obligation. In subsequent periods, the financial asset measured at amortized cost is reduced upon receipt of the payments. The other liability is derecognized on a pro rata basis as the build-out progresses, reducing the carrying amount of the publicly funded property, plant and equipment. If there is not yet reasonable assurance, only the installment payments received are recognized, with a matching non-financial other liability. As soon as there is reasonable assurance, outstanding grants are recognized under other financial assets, and the carrying amounts of the other liability and the publicly funded property, plant and equipment are adjusted in accordance with the actual build-out progress. All grants received are recognized in net cash used in/from investing activities.

On disposal of an item of property, plant and equipment or when no future economic benefits are expected from its use or disposal, the carrying amount of the item is derecognized. The gain or loss arising from the disposal of an item of property, plant and equipment is the difference between the net disposal proceeds, if any, and the carrying amount of the item and is recognized as other operating income or other operating expenses when the item is derecognized. The useful lives of the main asset classes are shown in the table below:

Asset classes	Years <sup>a</sup>
Buildings	25 to 50
Technical equipment and machinery	2 to 35
Other equipment, operating and office equipment	2 to 23

<sup>a</sup> The useful lives indicated represent the maximum number of years as specified by the Group. The actual useful lives may lie within these ranges due to contractual arrangements or other specific factors such as time and location.

Leasehold improvements are depreciated over the shorter of their useful lives or terms of the lease.

### Borrowing costs

Borrowing costs that are directly attributable to the acquisition, construction, or production of a qualifying asset are capitalized as part of the cost of that asset. Deutsche Telekom defines qualifying assets as construction projects or other assets for which a period of at least twelve months is necessary in order to get them ready for their intended use or sale.

### Impairments of intangible assets, items of property, plant and equipment, and right-of-use assets

Impairments are identified by comparing the carrying amount with the recoverable amount. If individual assets do not generate future cash flows independently of other assets, recoverability is assessed on the basis of the larger cash-generating unit to which the assets belong. At each reporting date, Deutsche Telekom assesses whether there is any indication that an asset may be impaired. If any such indication exists, the recoverable amount of the asset or cash-generating unit must be determined. In addition, annual impairment tests are carried out for intangible assets with indefinite useful lives (goodwill and FCC licenses) at regular intervals. For the purpose of impairment testing, goodwill acquired in a business combination is allocated to each of the cash-generating units that are expected to benefit from the synergies of the combination. If the carrying amount of the cash-generating unit to which goodwill is allocated exceeds its recoverable amount, goodwill allocated to this cash-generating unit must be reduced in the amount of the difference. Impairment losses for goodwill must not be reversed. If the impairment loss recognized for the cash-generating unit exceeds the carrying amount of the allocated goodwill, the additional amount of the impairment loss is to be distributed on a pro rata basis to the assets allocated to the cash-generating unit. The fair values or values in use (if measurable) of the individual assets are to be considered to be the minimum values. If the reasons for previously recognized impairments no longer exist, the impairment losses on the assets concerned (with the exception of goodwill) must be reversed.

The recoverable amount of a cash-generating unit is measured at the higher of fair value less costs of disposal and the value in use. The recoverable amount is generally determined by means of a discounted cash flow (DCF) calculation, unless it can be determined on the basis of a market price. These DCF calculations use projections that are based on financial budgets approved by management covering a ten-year period and are also used for internal purposes. The planning horizon reflects the assumptions for short- to mid-term market developments. Cash flows beyond the ten-year period are extrapolated using appropriate growth rates. For the key assumptions on which management has based its calculation of the recoverable amount, please refer to the explanations provided under "Judgments and estimates," further on in this section.

### Inventories

Inventories are carried at cost at initial recognition and are subsequently measured at the lower of cost and net realizable value. Cost comprises all costs of purchase, costs of conversion, and other costs incurred in bringing the inventories to their present location and condition. Cost is measured using the weighted average cost method. Net realizable value is the estimated standalone selling price in the ordinary course of business less the estimated costs of completion and the necessary estimated selling expenses.

### Non-current assets and disposal groups held for sale

Non-current assets and disposal groups held for sale are classified as such if it is highly probable that their carrying amount will be recovered principally through a sale transaction rather than through continuing use. These assets are measured at the lower of the carrying amount and fair value less costs of disposal and recognized as non-current assets and disposal groups held for sale. Such assets are no longer depreciated. Impairment of such assets is recognized if fair value less costs of disposal is lower than the carrying amount. If fair value less costs of disposal subsequently increases, the impairment loss previously recognized must be reversed. The reversal of impairment losses is limited to the impairment losses previously recognized for the assets concerned. If the requirements for the classification of assets as held for sale are no longer met, the assets may no longer be shown as held for sale. The assets are to be measured at the lower of the carrying amount that would have applied if the asset had not been classified as held for sale, and the recoverable amount at the date at which the requirements for the classification as held for sale are no longer met.

### Employee benefits

Deutsche Telekom maintains **defined benefit pension plans** in various countries on the basis of the pensionable compensation of its employees and their length of service. Some of these pension plans are financed through external pension funds and some through incorporation in a contractual trust agreement (CTA). Provisions for pensions are actuarially measured using the projected unit credit method for defined benefit pension plans, taking into account not only the pension obligations and vested pension rights known at the reporting date, but also expected future salary and benefit increases. The interest rate used to determine the present value of the obligations is generally set on the basis of the yields on high-quality corporate bonds in the respective currency area. The return on plan assets and interest expenses resulting from the unwinding of the discount are reported in profit/loss from financial activities. Service cost is classified as operating expenses. Past service cost resulting from a change in the pension plan are immediately recognized in the income statement in the period in which the change took effect. Gains and losses arising from adjustments and changes in actuarial assumptions are recognized immediately and in full in the period in which they occur outside profit or loss within equity. Some Group entities grant defined contribution plans to their employees in accordance with statutory or contractual requirements, with the payments being made to state or private pension insurance funds. Under defined contribution plans, the employer does not assume any other obligations above and beyond the payment of contributions to an external fund. The amount of the future pension payments will exclusively depend on the contribution made by the employer (and their employees, if applicable) to the external fund, including income from the investment of such contributions. The amounts payable are expensed when the obligation to pay the amounts is established, and classified as expenses.

Up until December 31, 2012, Deutsche Telekom maintained a joint pension fund, **Bundes-Pensions-Service für Post und Telekommunikation e.V.** (Federal Pension Service for Post and Telecommunications – BPS-PT), Bonn, together with Deutsche Post AG and Deutsche Postbank AG for civil-servant pension plans. BPS-PT made pension and allowance payments to retired employees and their surviving dependents who are entitled to pension payments as a result of civil-servant status. The German Act on the Reorganization of the Civil Service Pension Fund (Gesetz zur Neuordnung der Postbeamtenversorgungskasse – PVKNeuG) transferred the functions of BPS-PT relating to civil-servant pensions (organized within the Civil Service Pension Fund) to the **Federal Posts and Telecommunications Agency** (Federal Agency) (Bundesanstalt für Post und Telekommunikation, BAnst PT)), Bonn, effective January 1, 2013. The level of Deutsche Telekom AG's payment obligations to the Civil Service Pension Fund is defined under § 16 of the German Act on the Legal Provisions for the Former Deutsche Bundespost Staff (Postpersonalrechtsgesetz). Deutsche Telekom AG has been legally obligated since 2000 to make an annual contribution to the special pension fund amounting to 33 % of the pensionable gross emoluments of active civil servants and the notional pensionable gross emoluments of civil servants on temporary leave from civil-servant status. Deutsche Telekom is not required to fulfill any other obligations in respect of pensions for civil servants. The payment obligations are therefore defined contribution plans.

In the past, Deutsche Telekom AG and its domestic subsidiaries agreed on **phased retirement arrangements** with varying terms and conditions, predominantly based on what is known as the block model. Two types of obligations, both measured at their present value in accordance with actuarial principles, arise and are accounted for separately. The first type of obligation relates to the cumulative outstanding settlement amount, which is recorded on a pro rata basis during the active or working phase. The cumulative outstanding settlement amount is based on the difference between the employee's remuneration before entering phased retirement (including the employer's social security contributions) and the remuneration for the part-time service (including the employer's social security contributions, but excluding top-up payments). The second type of obligation relates to the employer's obligation to make top-up payments plus an additional contribution to the statutory pension scheme. Top-up payments are often hybrid in nature, i.e., although the agreement is often considered a form of compensation for terminating the employment relationship at an earlier date, payments to be made at a later date are subject to the performance of work in the future. Despite having the characteristics of severance payments, the top-up payments must be recognized ratably over the vesting period due to their dependency on the performance of work in the future. If the block model is used, the vesting period for top-up payments starts when the employee is granted the entitlement to participate in the phased retirement program and ends upon entry into the passive phase (leave from work).

Obligations arising from the granting of termination benefits are recognized when Deutsche Telekom does not have a realistic possibility of withdrawal from the granting of the corresponding benefits. **Severance payments for employees and obligations arising in connection with early retirement arrangements** in Germany are mainly granted in the form of offers to the employees to leave the Company voluntarily. As a rule, such obligations are not recognized before the employees have accepted an offer from the Company, unless the Company is prevented by legal or other restrictions from withdrawing its offer at an earlier date. Obligations arising from the sole decision by the Company to shed jobs are recognized when the Company has announced a detailed formal plan to terminate employment relationships. If termination benefits are granted in connection with restructuring measures within the meaning of IAS 37, a liability under IAS 19 is recognized at the same time as a restructuring provision. Where termination benefits fall due more than twelve months after the reporting date, the expected amount to be paid is discounted to the reporting date. If the timing or the amount of the payment is still uncertain at the reporting date, the obligations are reported under other provisions.

#### Other provisions

Other provisions are recognized for current legal or constructive obligations to third parties that are uncertain with regard to their timing or their amount. Provisions are recognized for these obligations provided they relate to past transactions or events, will more likely than not require an outflow of resources to settle, and this outflow can be reliably measured. Provisions are carried at their expected settlement amount, taking into account all identifiable risks and uncertainties. The settlement amount is calculated on the basis of a best estimate; suitable estimation methods and sources of information are used depending on the characteristics of the obligation. In the case of a number of similar obligations, the group of obligations is treated as one single obligation. The expected value method is used as the estimation method. If there is a range of potential events with the same probability of occurrence, the average value is taken. Individual obligations (e.g., legal and litigation risks) are regularly evaluated based on the most probable outcome, provided an exceptional probability distribution does not mean that other estimates would lead to a more appropriate evaluation. The measurement of provisions is based on past experience, relevant costing, and price information, as well as estimates and reports from experts. If experience or relevant costing or price information is used to determine the settlement amount, these values are extrapolated to the expected settlement date. Suitable price trend indicators (e.g., construction price indexes or inflation rates) are used for this purpose. Provisions are discounted when the effect of the time value of money is material. Provisions are discounted using pre-tax market interest rates that reflect the term of the obligation and the risk associated with it (insofar as not already taken into consideration in the calculation of the settlement amount). Reimbursement claims are not netted against provisions; they are recognized separately as soon as their realization is virtually certain.

**Provisions for decommissioning, restoration, and similar obligations** arising from the acquisition of property, plant and equipment are offset by a corresponding increase in the capitalized cost of the relevant asset. Changes at a later date in estimates of the amount or timing of payments or changes to the interest rate applied in measuring such obligations also result in retrospective increases or decreases in the carrying amount of the relevant item of property, plant and equipment. These in turn change the depreciation of the asset to be recognized in the future, which leads to the changes in estimates being recognized in profit or loss over the remaining useful life. Where the decrease in the amount of a provision exceeds the carrying amount of the related asset, the excess is recognized immediately in profit or loss.

#### Financial instruments

Financial instruments are recognized as soon as Deutsche Telekom becomes a party to the contractual regulations of the financial instrument. However, in the case of regular way purchase or sale, the settlement date is relevant for the initial recognition and derecognition. This is the day on which the asset is delivered to or by Deutsche Telekom. In general, financial assets and financial liabilities are offset and the net amount presented in the statement of financial position when, and only when, the entity currently has a right to offset the recognized amounts and intends to settle on a net basis. Transferred financial assets are derecognized in full if substantially all the risks and rewards of ownership are transferred or if some of the risks and rewards of ownership are transferred (risk sharing) and the acquirer has both the legal and the practical ability to sell the assets to a third party. If, in cases where risk is shared, the acquirer is unable to sell the assets to a third party, the assets will continue to be recognized to the extent of the maximum risk retained. Financial liabilities are derecognized when the obligation specified in the contract expires or if there is a substantial modification of the terms of the contract.



**Disclosures on fair value.** When determining the fair value, it is important to maximize the use of current inputs observable in liquid markets for the financial instrument in question and minimize the use of other inputs (e.g., historical prices, prices for similar instruments, prices on illiquid markets). A three-level measurement hierarchy is defined for these purposes. If prices quoted in liquid markets are available at the reporting date for the respective financial instrument, these will be used unadjusted for the measurement (Level 1 measurement). Other input parameters are then irrelevant for the measurement. One such example is shares and bonds that are actively traded on a stock exchange. If quoted prices on liquid markets are not available at the reporting date for the respective financial instrument, but the instrument can be measured using other inputs that are observable on the market at the reporting date, a Level 2 measurement will be applied. The conditions for this are that no major adjustments have been made to the observable inputs and no unobservable inputs are used. Examples of Level 2 measurements are collateralized interest rate swaps, currency forwards, and cross-currency swaps that can be measured using current interest rates or exchange rates. If the conditions for a Level 1 or Level 2 measurement are not met, a Level 3 measurement is applied. In such cases, major adjustments must be made to observable inputs or unobservable inputs must be used.

**Financial assets** include cash and cash equivalents, trade receivables, originated loans and other receivables, investments in equity instruments, and derivative financial assets. They are measured at fair value upon initial recognition. For all financial assets not subsequently measured at fair value through profit or loss, the transaction costs directly attributable to the acquisition are taken into account plus, in the case of debt instruments held, a loss account for expected credit losses. The fair values recognized in the statement of financial position are generally based on market prices of the financial assets. If these are not available, the fair value is determined using standard valuation models on the basis of current market parameters. For the classification and measurement of debt instruments held, the respective business model for managing the debt instruments and whether the instruments have the characteristics of a standard loan, i.e., whether the cash flows are solely payments of principal and interest, is relevant. Assuming the assets have these characteristics and if the business model is to hold to collect the asset's contractual cash flows, they are measured at amortized cost. If the objective of the business model is to hold to collect and sell the contractual cash flows, they are measured at fair value through other comprehensive income with recycling to profit or loss. In all other cases, financial assets are measured at fair value through profit or loss. There may be different business models for separate portfolios of the same types of debt instruments, for example if factoring transactions exist for certain trade receivables.

**Cash and cash equivalents** include cash accounts and short-term cash deposits at banks. They have maturities of up to three months at initial recognition.

**Trade receivables** are measured at their transaction price at initial recognition. Trade receivables with a significant financing component are initially measured at fair value.

Investments in **equity instruments** represent strategic investments. Deutsche Telekom has exercised the option of generally measuring these through other comprehensive income without recycling to profit or loss. The acquisition and disposal of strategic investments is based on business policy considerations.

**Dividends** received are recognized immediately in profit or loss unless they constitute a repayment of capital.

**Derivative financial assets** that are not part of an effective hedging relationship are measured at fair value through profit or loss.

In the **consolidated statement of cash flows**, Deutsche Telekom reports cash flows from interest and dividends received as cash inflows or outflows in net cash from operating activities.

**Financial liabilities** are measured at fair value on initial recognition. For all financial liabilities not subsequently measured at fair value through profit or loss, the transaction costs directly attributable to the acquisition are also a component of the carrying amount.

If the contractual payment term for **liabilities to suppliers** is longer than the normal credit period in the relevant procurement market at this point in time, this liability is reported under other interest-bearing liabilities in financial liabilities instead of under trade payables. A financing agreement of this nature is shown as a non-cash transaction in the consolidated statement of cash flows and the relevant repayment of the financial liability is reported under net cash from/used in financing activities. This applies regardless of whether the supplier sells its receivable or not.

For further information on the effects on the consolidated statement of cash flows, please refer to Note 37 "[Notes to the consolidated statement of cash flows.](#)"

**Derivative financial liabilities** that are not part of an effective hedging relationship are measured at fair value through profit or loss.

Deutsche Telekom has not yet made use of the option to designate financial instruments upon initial recognition as **at fair value through profit or loss**.

At initial recognition, debt instruments held that are not measured at fair value through profit or loss are measured including a loss allowance account for expected **credit losses**. For trade receivables with and without a significant financing component, contract assets, and lease assets, the loss allowance is calculated at an amount equal to the lifetime expected credit losses. For all other instruments, the loss allowance is determined at an amount equal to the lifetime expected credit losses if the credit risk on that financial instrument has increased significantly since initial recognition. Otherwise, the loss allowance is calculated at an amount equal to twelve-month expected credit losses. In this case, losses incurred later than twelve months after the reporting date would therefore not be considered.

When determining the amount of loss allowances for financial assets, Deutsche Telekom applies impairment models that are based on the historical probability of default and supplemented by the relevant future-oriented parameters. For debt instruments traded in an active market, publicly available market data is used to determine the loss allowance for expected credit losses.

The loss allowance takes adequate account of the future expected credit risk; write-offs lead to the derecognition of the respective receivables. Financial assets are grouped together on the basis of similar credit risk characteristics, tested collectively for impairment, and written off, if necessary. Loss allowances for trade receivables are managed by the portfolio managers of the individual business entities which have their own policies, procedures, and controls for the management of customer default risk and take account of the circumstances in the respective market. They consider internal credit ratings and empirical data on the customers' solvency, as well as customer-specific risks, and make use of available external ratings and estimates by collection agencies. The expected amount of a loss allowance is generally determined using a provision matrix and will increase over time taking into account how long the balances have been past due. The loss allowance rates are updated at regular intervals and adjusted to reflect current conditions and economic forecasts. For receivables and contract assets paid in installments a weighted loss rate is calculated, which reflects the period in which the amounts to be paid by the customer become due. A receivable is deemed past due, if the customer has not made the payment by the contractually agreed due date. In some cases, impairments are recognized using allowance accounts. The decision of whether to account for credit risks using an allowance account or by directly reducing the receivable will depend on the reliability of the risk assessment and is also the responsibility of the respective business entity.

Receivables are derecognized if the efforts to collect them are not successful and the receivable balance is deemed to be uncollectible.

Deutsche Telekom uses **derivatives** to hedge the interest rate and currency risks resulting from its operating, financing, and investing activities. The Company does not hold or issue derivatives for speculative trading purposes. Derivatives are carried at their fair value upon initial recognition and also for subsequent measurement. The fair value of traded derivatives is equal to their market price, which can be positive or negative. If there is no market price available, the fair value is determined using standard financial valuation models.

The fair value of derivatives is the price that Deutsche Telekom would receive or have to pay if the financial instrument were transferred at the reporting date. This is calculated on the basis of the counterparties' relevant exchange rates and interest rates at the reporting date. Calculations are made using average rates. In the case of interest-bearing derivatives, a distinction is made between the clean price and the dirty price (full fair value). In contrast to the clean price, the dirty price also includes the interest accrued. The fair values carried correspond to the dirty price.

Embedded derivatives are separated from financial liabilities and other non-financial contracts that are not measured at fair value through profit or loss if the economic characteristics and risks of the embedded derivative are not closely related to the economic characteristics and risks of the host contract. These derivatives must then be recognized separately and measured at fair value through profit or loss. Derivatives embedded in financial assets do not need to be separated, however. In such cases, the entire instrument is rather to be measured at fair value provided the cash flows from the instrument are not solely payments of principal and interest.

Recording the changes in the fair values – either in profit or loss or directly in equity – depends on whether or not the derivative is part of an effective hedging relationship as set out in IFRS 9. If hedge accounting is not applied, the changes in the fair values of the derivatives must be recognized immediately in profit or loss. If, on the other hand, effective hedge accounting exists, the hedge will be recognized as such.

Deutsche Telekom applies hedge accounting to hedged items in the statement of financial position and future cash flows, thus reducing income statement volatility. A distinction is made between fair value hedges, cash flow hedges, and hedges of a net investment in a foreign operation depending on the nature of the hedged item. Hedging relationships are exclusively accounted for in accordance with the requirements of IFRS 9. Deutsche Telekom has exercised the option of designating cross-currency basis spreads as hedging costs rather than as part of the hedging relationship and presenting them separately in equity. To hedge the currency risk of an unrecognized firm commitment, Deutsche Telekom makes use of the option to recognize it as a cash flow hedge rather than a fair value hedge. In the case of fair value hedges, the cumulative adjustments to the carrying amount of the hedged item are amortized when the hedging relationship has been discontinued.

IFRS 9 sets out strict requirements on the use of hedge accounting. Deutsche Telekom complies with these requirements by documenting, at the inception of a hedge, both the relationship between the financial instrument used as the hedging instrument and the hedged item, as well as the risk management objective and the risk strategy of the hedge. This involves concretely assigning the hedging instruments to the corresponding assets or liabilities or (firmly committed/highly probable) future transactions and also assessing the effectiveness of the hedging instruments designated. The effectiveness of existing hedging relationships is monitored on an ongoing basis. If the criteria for applying hedge accounting are no longer met, the hedging relationship will be de-designated immediately.

Deutsche Telekom does not use hedge accounting in accordance with IFRS 9 to hedge the foreign-currency exposure of recognized monetary assets and liabilities, because the gains and losses on the hedged item from currency translation that are recognized in profit or loss in accordance with IAS 21 are shown in the income statement together with the gains and losses on the derivatives used as hedging instruments.

Contracts to buy a non-financial item that is physically settled, such as energy, are to be recognized as derivatives if the contractually agreed delivery volume will not be used in full in own business operations. Possible use cases are contracts under which a fixed percentage of the energy generated by a wind park or solar farm (physical power purchase agreements) is to be purchased. If more energy were to be generated than is needed, the purchaser would have to resell the surplus if they had no feasible option to store it temporarily. Alternatively, the supplier would sell the unneeded energy and charge Deutsche Telekom the difference between the proceeds from the sale and the contractually agreed price (net settlement). In either case, the contract would have to be recognized as a derivative at fair value through profit or loss. To date, no material contracts to be recognized as derivatives exist at Deutsche Telekom. The delivery volume stipulated in physical power purchase agreements is always used in full in the Group's own business operations. In order to ensure this, contracts have been concluded with sufficiently low minimum purchase volumes. There is no net settlement for volumes not purchased. Additional quantities needed can either be purchased at a fixed price agreed in advance or at current market price. In order to achieve its climate goals, Deutsche Telekom also acquires emission certificates under cash-settled energy forward agreements.

For further information, please refer to Note 43 "[Financial instruments and risk management](#)."

### Insurance contracts

Deutsche Telekom recognizes a group of insurance contracts it issues from the earliest of the following:

- a. the beginning of the coverage period of the group of contracts.
- b. the date when the first payment from a policyholder in the group becomes due.
- c. for a group of onerous contracts, when the group becomes onerous.

The coverage period of each contract in the group at initial recognition is less than one year. Hence, for measurement purposes, Deutsche Telekom applies the premium allocation approach in accordance with IFRS 17. Any insurance acquisition cash flows are recognized as expenses when those costs are incurred. In cases where the relevant criteria are met, service contracts for a fixed fee are accounted for in accordance with IFRS 15 rather than IFRS 17.

### Contingencies (contingent liabilities and assets)

Contingencies (contingent liabilities and assets) are potential liabilities or assets arising from past events whose existence will be confirmed by the occurrence or non-occurrence of one or more uncertain future events not entirely within the control of Deutsche Telekom. Contingent liabilities are also present obligations that arise from past events for which an outflow of resources embodying economic benefits is not probable or for which the amount of the obligation cannot be measured with sufficient reliability. Contingent liabilities are only recognized at their fair value if they were assumed in the course of a business combination. Contingent liabilities not assumed in the course of a business combination are not recognized. Contingent assets are not recognized. However, when the realization of income is virtually certain, then the related asset is no longer a contingent asset, but it is recognized as an asset. Information on contingent liabilities is disclosed in the notes to the consolidated financial statements, unless the possibility of an outflow of resources embodying economic benefits is remote. The same applies to contingent assets where an inflow of economic benefits is probable.

### Leases

A lease is a contract in which the lessor conveys the right to use an asset for a period of time to the lessee in exchange for consideration, typically a payment or series of payments. The scope of IFRS 16 applies to standard lease, rental, and tenancy agreements as well as agreements in which the lessee is granted other rights to use assets, such as certain easements. A lease only exists if the contract conveys the right to control the use of an identified asset to the lessee. The lessee has control when it has the right to obtain substantially all of the economic benefits from use of the identified asset during the contract term and the right to direct the use of the identified asset.

**Lessee.** At the commencement date of the lease, a lessee recognizes a right-of-use asset and a lease liability in the statement of financial position for all leases. The right-of-use asset is measured applying the cost model and the lease liability is measured at the present value of the future lease payments. This measurement concept also applies to leases for which the underlying asset is of low value and to short-term leases for which the lease term is no longer than twelve months. Non-lease components are not separated from lease components, i.e., all non-lease payments due under the contract are also recognized in the statement of financial position. This practical expedient does not include contracts relating to data centers, which due to their special requirements in terms of equipment and premises form their own separate class of underlying asset. For this class of assets, the non-lease payments are recognized as an expense. IAS 38 is applied for leases of intangible assets rather than IFRS 16.

The lease liability is recognized at the present value of the future lease payments to be made over the reasonably certain lease term. Lease payments are all of the fixed and in-substance fixed payments, less any future lease incentives payable by the lessor. Variable lease payments that depend on an index or a rate, amounts expected to be payable under residual value guarantees, and payments for the exercise of reasonably certain purchase and termination options are also measured and recognized as part of the lease liability. The series of payments is discounted at the interest rate implicit in the lease or, if that rate cannot be readily determined, at the lessee's incremental borrowing rate. The incremental borrowing rate is determined by deriving benchmark interest rates for a period of up to 30 years from maturity-related risk-free interest rates. On this basis, an adjustment is carried out to account for credit-risk premiums, country risks, and interest rate differentials between a bond financing arrangement and the financing of individual lease transactions. All other variable payments are recognized as an expense. The lease liability is subsequently measured using the effective interest method.

The cost of the right-of-use asset comprises: the amount of the initial measurement of the lease liability; any lease payments made at or before the commencement date, less any lease incentives received from the lessor; any initial direct costs incurred for obtaining the lease; the costs for preparing the leased asset for its intended use; and an estimate of any future dismantling and restoration costs. The right-of-use asset is subsequently depreciated on a straight-line basis over the lease term and, if applicable, reduced by any impairment losses. If ownership of the leased asset is transferred to the lessee at the end of the lease term, or if it is reasonably certain that a purchase or put option will be exercised, the right-of-use asset is depreciated from the commencement date to the end of the useful life of the underlying asset.

The lease term is the period during which it is reasonably certain that an underlying asset will be used by the lessee. In addition to the non-cancelable period of a lease, extensions will be included if their exercise is reasonably certain at the commencement of the lease term. Early termination rights are not to be considered if it is reasonably certain that an existing termination right will not be exercised. These estimates are reassessed either upon the occurrence of an event or a significant change in circumstances that is within the control of the lessee and affects a change in lease term. The lease term will be revised if an extension option or termination option is exercised or not exercised contrary to the original estimate. The revision of the lease term leads to a change in the future series of lease payments and therefore to a remeasurement of the lease liability using a revised current discount rate. The amount of the resulting difference is recognized outside profit or loss as an adjustment to the right-of-use asset or is offset against it. Derecognition amounts that exceed the carrying amount of the right-of-use asset are recognized as an income in profit or loss.

A lease modification that substantially increases the scope of the original lease is accounted for as a separate lease if both the lessee is granted an additional right to use one or more underlying assets and the consideration for the lease increases by an amount commensurate with the stand-alone price for the increase in scope that the lessee would otherwise have to pay for use if it had leased these assets from a third party under a separate lease.

For lease modifications that increase the scope of a lease but are not accounted for as a separate lease, the required remeasurement of the lease liability is accounted for outside profit or loss as an adjustment to the carrying amount of the right-of-use asset and the lease liability for the existing lease. If a lease modification decreases the scope of the lease, the lessee also remeasures both the right-of-use asset and the lease liability and recognizes any gain or loss in profit or loss. The modified amounts are measured at the modification date with a revised discount rate.

**Lessor.** If a lease does not transfer substantially all risks and rewards incidental to ownership of an underlying asset to the lessee, the leased asset is recognized in the statement of financial position by the lessor (**operating lease**). Measurement of the leased asset is then based on the accounting policies applicable to the underlying asset. The lease payments, including contractually defined future changes in the lease payments, are recognized by the lessor in profit or loss as revenue from the use of entity assets by others in the scope of IFRS 16, because these payments constitute (monthly) recurring transactions. Contractually defined future changes in the lease payments during the term of the lease are recognized as lease revenue on a straight-line basis over the lease term, which is assessed at the commencement date of the contract. Where extension options exist, the exercises of those extension options that are reasonably certain are initially taken into account at the time the lease is concluded. If, contrary to the original expectation, these options are exercised or not exercised during the lease term, the previously assessed term will be revised and taken into account in the recognition of future lease revenue from operating lease transactions.

If substantially all risks and rewards incidental to ownership of the underlying leased asset are transferred to the lessee (**finance lease**), the lessor recognizes at the commencement date, in place of the leased asset, a finance lease receivable at an amount equal to the net investment in the lease. The net investment is defined as the discounted aggregate of future lease payments and any unguaranteed residual value accruing to the lessor (gross investment). The lease payments made by the lessees are split into an interest component and a principal component using the effective interest method. In subsequent measurement, the lease receivable is reduced by the principal lease payments received. The interest component of the payments received is recognized as finance income over the lease term in the consolidated income statement.

Under business models in which Deutsche Telekom is classified as a manufacturer or dealer lessor within the meaning of IFRS 16, revenue from finance leases is recognized at the date at which the asset is made available for use to the lessee at the fair value of the underlying leased asset or, if lower, the present value of the payments including any guaranteed residual value and presented as lease revenue. The selling profit or loss from the finance lease is realized in the amount of the difference between the revenue and the carrying amount of the underlying asset less the present value of the unguaranteed residual value. The finance income (interest income) is subsequently also presented as lease revenue.

For sale-and-leaseback transactions, if there is a transfer of control within the meaning of IFRS 15, Deutsche Telekom as the seller-lessee measures the right-of-use asset arising from the leaseback at the proportion of the previous carrying amount of the asset that relates to the right of use retained by the seller-lessee. Any gain or loss that relates to the rights transferred to the buyer-lessor is recognized in profit or loss. If there is no transfer of control, the seller-lessee recognizes the transaction as a financing transaction. While the transaction is legally subject to a lease contract, it is not accounted for as a lease and the underlying asset is not derecognized in this case. Where shares in cell tower business companies are sold with loss of control in accordance with IFRS 10 and simultaneous leaseback of part of the passive network infrastructure sold, a portion of the gain is recognized on a pro rata basis in subsequent periods. Applying the sale-and-leaseback requirements, the gain on disposal is calculated as the amount of the rights transferred to the buyer-lessor and the proportionate deferred gain is determined as the amount that relates to the right of use retained.

#### Share-based payment programs

Equity-settled share-based payment transactions are measured at fair value on the grant date. The fair value of the obligation is recognized as personnel costs over the vesting period and offset against capital reserves. For equity-settled share-based payment transactions, the fair value is determined using internationally accepted valuation techniques, such as the Black-Scholes model or the Monte Carlo model. For cash-settled share-based payment transactions, the goods and services acquired and the liability incurred are recognized at the fair value of the liability. The fair value of the liability has to be newly determined at each reporting date and at the settlement date, and the changes in the fair value have to be recognized in profit and loss, until the liability is settled.

### Net revenue, contract assets and liabilities/contract costs

Revenues include all revenues from the ordinary business activities of Deutsche Telekom. Ordinary activities do not only refer to the core business but also to other recurring sales of goods or rendering of services. However, gains from sales of items of property, plant and equipment or intangible assets are not recognized as revenue but as other operating income. All ancillary income in connection with the delivery of goods and rendering of services in the course of an entity's ordinary activities is also presented as revenue. Examples include dunning fees, contractual penalties, and default interest. Income from interest added back from long-term customer receivables and contract assets is also considered ancillary income in the course of an entity's ordinary activities where the underlying receivables or contract assets have resulted in the recognition of revenue. Revenues are recorded net of value-added tax and other taxes collected from customers that are remitted to governmental authorities. They are recognized in accordance with the provision of goods or services, provided that collectability of the consideration is probable. For service contracts with a continuous service provision, the contractually agreed total consideration is recognized as revenue on a straight-line basis over the minimum contract term, regardless of the payment pattern.

A **contract asset** must be recognized when Deutsche Telekom recognized revenue for fulfillment of a contractual performance obligation before the customer paid consideration or before – irrespective of when payment is due – the requirements for billing and thus the recognition of a receivable exist.

A **contract liability** must be recognized when the customer paid consideration or a receivable from the customer is due before Deutsche Telekom fulfilled a contractual performance obligation and thus recognized revenue. In a customer contract, contract liabilities must be set off against contract assets.

**Multiple-element arrangements** involving the delivery or provision of multiple products or services must be separated into distinct performance obligations, each with its own separate revenue contribution that is recognized as revenue on fulfillment of the obligation to the customer. At Deutsche Telekom, this especially concerns the sale or lease of a mobile handset or other telecommunications equipment combined with the conclusion of a mobile or fixed-network telecommunications contract. The total transaction price of the bundled contract is allocated among the individual performance obligations based on their relative – possibly estimated – standalone selling prices, i.e., based on a ratio of the standalone selling price of each separate element to the aggregated standalone selling prices of the contractual performance obligations. As a result, the revenue to be recognized for products (often delivered in advance) such as mobile handsets that are sold at a subsidized price in combination with a long-term service contract is higher than the amount billed or collected. This leads to the recognition of what is known as a contract asset – a receivable arising from the customer contract that has not yet legally come into existence – in the statement of financial position. The contract asset is reversed and reduced over the remaining minimum contract period, reducing revenue from the other performance obligations (in this case: mobile service revenues) compared with the amounts billed. In contrast to the amounts billed, this results in higher revenue from the sale of goods and merchandise and lower revenue from the provision of services.

**Customer activation fees** and other advance one-time payments by the customer that do not constitute consideration for a separate performance obligation are deferred as contract liabilities and recognized as revenue over the minimum contract term or, in exceptional cases (e.g., in the case of contracts that can be terminated at any time) over the expected contract period. The same applies to fees for installation and set-up activities that do not have an independent value for the customer.

As distinct from promotional offers, **options to purchase additional goods or services free of charge or at a discount** are separate performance obligations (material rights) for which part of the revenue is deferred as a contract liability until the option is exercised or expires, providing the discount on future purchases is an implicit component of the consideration for the current contract and is also significant. The measure of significance is whether the decision by the (average) customer to enter into the current contract is likely to have been significantly influenced by their right to the future discount. Offers for volume discounts for the purchase of additional core products of an entity (e.g., a discount offered on an additional fixed-network contract for mobile customers) are considered by Deutsche Telekom as promotional offers for which customers do not (implicitly) pay as part of the current contract.

Long-term customer receivables (e.g., arising from sales of handsets in installments), contract assets (e.g., arising from the subsidized sale of a handset in connection with the conclusion of a long-term customer contract), or contract liabilities (e.g., arising from a prepayment by the customer) are recognized at present value if the **financing component** is significant in relation to the total contract value (i.e., including those performance obligations that do not contain a financing component). The discount rate also reflects the customer credit risk. Deutsche Telekom makes use of the option not to recognize a significant financing component if the period between when a good or service is transferred to the customer and when the customer pays for that good or service will be one year or less.

**Payments to customers** including credits or subsequent discounts are recognized as a reduction in revenue unless the payment constitutes consideration for a distinct good or service from the customer, for which the fair value can be reasonably estimated.

**Gross vs. net recognition of revenues.** In cases where a company is in an intermediary position between another supplier/vendor (e.g., manufacturer, wholesaler) and a customer, it must be assessed whether the company itself supplies the relevant product or provides the service requested by the customer as the principal or whether the company merely acts as the agent for the supplier. The determining factor is control over the specified good or service prior to transfer to the customer. The assessment determines whether the company must recognize revenue on a gross basis (as a principal) or net of the costs incurred to the supplier (as an agent), i.e., only in the amount of the remaining margin. For Deutsche Telekom, the question arises particularly in the case of (branded) digital products (e.g., streaming services, software licenses, cloud-based software as a service) provided by and purchased from third parties and sold to customers as part of Deutsche Telekom's product portfolio. As a rule, Deutsche Telekom considers itself to be the principal in the aforementioned cases provided the customer does not enter into any contractual relationship with the third-party supplier and Deutsche Telekom bears primary responsibility for product acceptance and customer support, and is in the position to set the sale price.

**Contract costs** comprise the incremental costs of obtaining a contract (mainly sales commission paid to employees and third-party retailers in the direct and indirect sales channel) and the costs to fulfill a contract. These must be capitalized if it can be assumed that the costs will be compensated by future revenue from the contract. Incremental costs of obtaining a contract are additional costs that would not have been incurred had the contract not been concluded. Costs to fulfill a contract are costs relating directly to a contract that are incurred after contract inception and serve the purpose of fulfilling the contract but are incurred prior to fulfillment and cannot be capitalized under any other standard. Deutsche Telekom makes use of the option to immediately recognize contract costs whose amortization period would not be more than one year as an expense.

The capitalized contract costs are generally recognized on a straight-line basis over the expected contract period. The expenses are disclosed in Deutsche Telekom's income statement, not under depreciation and amortization but – depending on the sales channel – as goods and services purchased or personnel costs.

In the **indirect sales channel**, third-party retailers often arrange service contracts on behalf of and for the account of Deutsche Telekom (as the agent) in connection with the sale of subsidized handsets in their own name and for their own account (as the principal). In such cases, the retailers receive commission in an amount that explicitly or implicitly compensates them for the handset subsidy granted. As in the case of multiple-element arrangements in the direct sales channel, the customer ultimately covers the handset subsidy by paying a price above the standalone selling price for the service contract. Deutsche Telekom considers this an implicit promise to the customer that on conclusion of this service contract they will be able to purchase a handset at a discounted price. The only difference between this promise and the purchase of a service in the direct sales channel is that it is not Deutsche Telekom that is granting the discount as part of a multiple-element arrangement but a third-party retailer that is compensated for it by Deutsche Telekom through the commission it receives for arranging the service contract. As, from an economic substance perspective, these payments constitute indirect payments by Deutsche Telekom to customers, the portion of the commission payments attributable to the (implicit) cost reimbursements to the retailer is not capitalized as contract costs but as a contract asset and is therefore recognized as a reduction of the service revenues over the contract term rather than as an expense. This ensures that the amount of the service revenues generated with retail customers for identical rate plans does not depend on the type of sales channel.

Depending on the business model, **revenue recognition** at Deutsche Telekom is as follows:

The **mobile and fixed-network business** of the Germany, United States, and Europe operating segments includes mobile services, narrow- and broadband access to the fixed network and the internet, television via internet, connection and roaming fees billed to other fixed-network and mobile operators (wholesale business), and sales or lease of mobile handsets, other telecommunications equipment, and accessories, as well as reinsurance for terminal equipment insurance policies and extended warranties offered to mobile customers. Revenue generated from the use of voice and data communications as well as television via internet is recognized upon rendering of the agreed service. The services rendered relate to use by customers (e.g., call minutes), availability over time (e.g., monthly flat rates), or other agreed rate plans. Revenue and expenses associated with the sale of telecommunications equipment and accessories are recognized when the products are delivered, provided there are no unfulfilled company obligations that affect the customer's final acceptance of the arrangement. Revenue from the lease of mobile handsets and telecommunications equipment that is not considered a sale in economic terms is recognized monthly as the entitlement to the fees accrued. Advertising revenues are recognized in the period in which the advertisements are exhibited.

Trade-in rights for used handsets which are granted to customers upon contract conclusion under the condition of a new purchase transaction (including renewal of an existing service contract) do not constitute repurchase arrangements; however, if the repurchase prices exceed the fair value of the handsets these rights must be recognized as separate performance obligations for which part of the contractual revenue is deferred until they are exercised or expire.

Particularly in the mobile communications business, the timing of payments for mobile handsets purchased in connection with the conclusion of a service contract differs from the timing of the delivery and hence from revenue recognition. Where a significant financing component exists, revenue is measured at the present value. Whereas the sale of subsidized handsets in connection with the conclusion of (long-term) service contracts in the consumer business is still common in the Germany operating segment and also to some extent in the Europe operating segment, handsets are not sold at a discount at all, or only to a limited extent, in the United States and to some extent in the Europe operating segments; payment-by-installment models or lease models are offered to customers instead. In both the subsidy model and the payment-by-installment model, an asset must thus be recognized at the date of revenue recognition and is generally settled over a 24-month service contract term through payments made by the customer. The only difference is that with the subsidy model it is a contract asset that is repaid through the portion of the monthly bill that exceeds the allocated monthly service revenues. By contrast, the payment-by-installment model involves an existing legal customer receivable that is settled based on an installment plan – separately from the monthly billing for telecommunications services.

The **Systems Solutions** operating segment provides, among other things, IT services and network services for corporate customers including IT outsourcing services and the sale of hardware including desktop services. Revenue from service contracts is recognized as the service is performed, i.e., normally on a pro rata basis over the contract term. Revenue from service contracts billed on the basis of time and material used is recognized at the contractual hourly rates as labor hours are delivered and direct expenses are incurred.

Revenue from hardware sales or sales-type leases is recognized when the product is shipped to the customer, provided there are no unfulfilled company obligations that affect the customer's final acceptance of the arrangement. Any costs of these obligations are recognized when the corresponding revenue is recognized.

Revenue from construction contracts and construction-type service contracts (or elements of service contracts), for which a defined output is promised (e.g., IT developments), is recognized using the percentage-of-completion method. The measure of progress or stage of completion of a contract is generally determined as the percentage of cost incurred up until the reporting date relative to the total estimated cost at the reporting date (cost-to-cost method). In particular for complex outsourcing contracts with corporate customers, a reliable estimate of the total cost and therefore of the stage of completion is not possible in many cases, so revenue is only recognized in the amount of the contract costs expensed. This means that a proportionate profit is not realized until the contract has been completed (zero-profit method).

Revenue from non-sales-type rentals and leases is recognized on a straight-line basis over the lease term.

#### Income taxes

Income taxes include current income taxes as well as deferred taxes. Current and deferred tax assets and liabilities must be recognized where they are probable. They are measured in accordance with the tax laws applicable or already announced as of the reporting date, provided said announcement has the effect of actual enactment. Where uncertain tax assets or uncertain tax liabilities are recognized because they are probable, these must be measured at their most probable amount. In exceptional cases the expected value is considered. Where current and deferred taxes are recognized, they must be reported as income or expense except to the extent that the tax arises from a transaction which is recognized outside the consolidated income statement, either in other comprehensive income or directly in equity, or in connection with a business combination. Current tax assets and current tax liabilities and deferred tax assets and deferred tax liabilities are offset in the statement of financial position if Deutsche Telekom has a legally enforceable right to set off current tax assets against current tax liabilities, has an intention to settle net, and the deferred tax assets and the deferred tax liabilities relate to income taxes levied by the same taxation authority.

Current tax assets and current tax liabilities must be recognized in the amount that Deutsche Telekom expects to settle with or recover from the tax authorities. They include liabilities/receivables for the current period as well as for prior periods.

Deferred taxes are recognized for temporary differences between the carrying amounts in the consolidated statement of financial position and the tax base, as well as for tax loss carryforwards and tax credits. As an exception to this principle, a deferred tax liability is not recognized for temporary differences if the deferred tax liability arises from the initial recognition of an asset or a liability in a transaction which is not a business combination and, at the time of the transaction, affects neither IFRS accounting profit (before taxes) nor taxable profit/tax loss. Nor is a deferred tax liability recognized for temporary differences arising from the initial recognition of goodwill. A deferred tax liability is generally recognized for temporary differences associated with investments in subsidiaries, joint arrangements, and associates, unless Deutsche Telekom is able to control the timing of the reversal of the temporary difference and it is probable that the temporary differences will not reverse in the foreseeable future.



### Judgments and estimates

The presentation of the results of operations or financial position in the consolidated financial statements is dependent upon and sensitive to the accounting policies, assumptions, and estimates. The actual amounts may differ from those estimates. The following critical accounting estimates and related assumptions and uncertainties inherent in accounting policies applied are essential to understand the underlying financial reporting risks and the effects that these accounting estimates, assumptions, and uncertainties may have on the consolidated financial statements.

Measurement of **property, plant and equipment, and intangible assets** involves the use of estimates for determining the fair value at the acquisition date, provided they were acquired in a business combination. Furthermore, the expected useful lives of these assets must be estimated. The determination of the fair values of assets and liabilities, as well as of the useful lives of the assets is based on management's judgment. The measurement of intangible assets acquired in barter transactions is based on management's judgment as to whether a barter transaction has commercial substance. For this, an analysis is performed to determine to what extent the future cash flows (risk, timing, and amount) are expected to change as a consequence of the transaction. Information from external experts is obtained for this analysis and for the determination of the fair values of assets.

The determination of **impairments of property, plant and equipment, intangible assets, and right-of-use assets** involves the use of estimates that include, but are not limited to, the cause, timing, and amount of the impairment. Impairment is based on a large number of factors, such as changes in current competitive conditions, expectations of growth in the telecommunications industry, increased cost of capital, changes in the future availability of financing, technological obsolescence, discontinuance of services, current replacement costs, prices paid in comparable transactions, and other changes in circumstances that may indicate an impairment. Management is required to make significant judgments concerning the identification and validation of impairment indicators, as well as the estimation of future cash flows and the determination of fair values for assets (or groups of assets), applicable discount rates, useful lives, and residual values of the relevant assets. Specifically, the estimation of cash flows underlying the fair values from the mobile business considers the continued investment in network infrastructure required to generate future revenue growth through the offering of new data products and services, for which only limited historical information on customer demand is available. If the demand for these products and services did not materialize as expected, this would result in less revenue, less cash flow, and potential impairment. In addition, when determining fair values, further planning uncertainties that reflect the risks of macroeconomic development could adversely affect future results of operations. Inflation, energy prices, and expectations of inflation and energy price rises as well as their impact on revenue (when passed on to customers) and costs are included in impairment tests via the planning approved by management. Risk management also identifies new risks and additionally takes into account any such risks that would have a significant impact and change an impairment test.

The determination of the **recoverable amount of a cash-generating unit** involves the use of estimates by management. Methods used to calculate the recoverable amount include discounted cash flow-based methods and methods that use market prices as a basis. The discounted cash flow valuations refer to projections that are based on financial plans that have been approved by management and are also used for internal purposes. The chosen planning horizon reflects the assumptions for short- to medium-term market developments and is selected to achieve a steady state in the business outlook that is necessary for calculating the perpetual annuity. This steady state will only be reached based on the planning horizon selected, in particular due to the sometimes long investment cycles in the telecommunications industry and the investments planned and expected in the long run to acquire and extend spectrum licenses. Cash flows beyond the internal mid-term planning are extrapolated using appropriate growth rates defined separately for each cash-generating unit. These growth rates are based on real growth and inflation expected in the long term for the countries in which the respective unit operates. To achieve the sustainable growth rates set for the period of the perpetual annuity, additional sustainable investments derived specifically for each cash-generating unit are taken into account. The key assumptions on which management has based its calculation of the recoverable amount include the following assumptions that were primarily derived from internal sources and are based on past experience and extended by current internal expectations, and that are underscored by external market data and estimates: development of revenue, customer acquisition and retention costs, churn rates, capital expenditure, market share, and growth rates. Discount rates are determined on the basis of external figures derived from the market, taking account of the risks associated with the cash-generating unit (market and country risks). Any future changes in the aforementioned assumptions could have a significant impact on the fair values of the cash-generating units. Changes in the assumptions may have a negative impact, as a result of future macroeconomic trends, continued intense competition, further possible legislation changes (e.g., as part of national austerity programs), and regulatory intervention.

Management recognizes **allowances for (doubtful) accounts** to account for expected losses resulting from payment default of customers. When evaluating the adequacy of an allowance for (doubtful) accounts, management bases its estimates on the aging of accounts receivable balances and historical write-off experience, customer creditworthiness, and changes in customer payment terms. If the financial condition of customers were to deteriorate, actual write-offs might be higher than expected.

In each tax jurisdiction in which Deutsche Telekom operates, management must make judgments for the calculation of **current and deferred taxes**. This is relevant, for example, when it comes to a decision on recognizing deferred tax assets because it must be probable that a taxable profit will be available against which the deductible temporary differences, loss carryforwards, and tax credits can be utilized. In addition to the estimate of future earnings, various factors are used to assess the probability of the future utilization of deferred tax assets, including past results of operations, the reliability of planning, and tax planning strategies. The period used for the assessment of the recoverability depends on the circumstances at the respective Group company and typically is in a range of five to ten years.

**Pension obligations for benefits to non-civil servants** are generally satisfied by defined benefit plans. Pension benefit costs for non-civil servants are determined in accordance with actuarial valuations, which rely on assumptions regarding the discount rate, the expected salary increase rate, the expected pension trend, and life expectancy. In the event that changes in the assumptions regarding these parameters are required, the future amounts of the pension benefit costs may be affected materially.

Deutsche Telekom is obligated, under the German Federal Posts and Telecommunications Agency Reorganization Act (Gesetz zur Reorganisation der Bundesanstalt für Post und Telekommunikation Deutsche Bundespost), to pay for its share of any operating cost shortfalls between the income of the **Civil Service Health Insurance Fund** (Postbeamtenkrankenkasse) and benefits paid. The Civil Service Health Insurance Fund provides services mainly in cases of illness, birth, or death for its members, who are civil servants employed by or retired from Deutsche Telekom AG, Deutsche Post AG, and Deutsche Postbank AG, and their relatives. When Postreform II came into effect, participation in the Civil Service Health Insurance Fund was closed to new members. The insurance premiums collected by the Civil Service Health Insurance Fund must not exceed the insurance premiums imposed by alternative private health insurance enterprises for comparable insurance benefits, and, therefore, do not reflect the changing age distribution of the participants in the fund. Deutsche Telekom recognizes provisions in the amount of the actuarially determined present value of Deutsche Telekom's share in the fund's future deficit, using a discount rate and making assumptions about life expectancies and projections for contributions and future increases in general health care costs in Germany. Since the calculation of these provisions involves long-term projections over periods of more than 50 years, the present value of the liability may be highly sensitive even to small variations in the underlying assumptions.

Deutsche Telekom exercises considerable judgment in measuring and recognizing **provisions and contingent liabilities** related to pending litigation or other outstanding claims subject to negotiated settlement, mediation, arbitration, or government regulation. Judgment is necessary in assessing the likelihood that a pending claim will succeed, or a liability will arise, and to quantify the possible range of the final settlement. Provisions are recognized for losses from executory contracts, provided a loss is considered probable and can be reasonably estimated. Because of the inherent uncertainties in this evaluation process, actual losses may be different from the originally estimated provision. In addition, significant estimates are involved in the determination of provisions related to taxes and litigation risks. These estimates are subject to change as new information becomes available, primarily with the support of internal specialists or with the support of outside consultants, such as actuaries or legal counsel. Revisions to the estimates of these losses from executory contracts may significantly affect future results of operations.

#### **Revenue recognition, contract assets and liabilities/contract costs**

The determination of the **transaction price** may also be subject to estimates and assumptions, especially in the case of variable consideration, e.g., performance bonuses paid out at the end of a contract. Since their inclusion can lead over time to the recognition of revenue that must be partially reversed in subsequent periods if the conditions for payment are not met, variable payment components can only be included in the transaction price if it is highly probable that there will be an entitlement to payment. Where the variable consideration leads to a reduction in the payment entitlement or a repayment obligation on the part of Deutsche Telekom (e.g., in the case of volume discounts), the fixed contractual payment must be set lower accordingly. In the case of variable discounts, the non-inclusion of the variable consideration means that these as-yet unknown discounts are generally taken into account with a reducing effect on the transaction price.

The standalone selling prices of individual products or services that are part of **multiple-element arrangements** are complex to determine, because some of the elements are price-sensitive and, thus, volatile in a competitive marketplace. In many cases, standalone selling prices can also not be observed for the company's own products. Due to the fact that comparability is generally not completely assured, the use of market prices for similar products is subject to an element of uncertainty, as is an estimate using a cost-plus-margin approach. Changes in estimates of standalone selling prices can significantly influence the allocation of the transaction price for the entire multiple-element arrangement among the individual performance obligations and therefore affect both the financial position, i.e., the carrying amount of contract assets and contract liabilities, and the current and future results of operations.

**One-time payments** by the customer for contracts that can be terminated at any time are recognized over an expected contract period, the length of which depends on the period over which, from a commercial perspective, the customer is expected to renew or not terminate the contract on a monthly basis.

**Contract costs** are deferred and generally recognized as expense over the expected contract period. The estimate of the expected average contract period is based on historical customer turnover. However, this is subject to fluctuations and has only limited informative value with regard to future customer behavior, particularly if new products are rolled out. If management's estimates are revised, material differences may result in the amount and timing of expenses for subsequent periods.

The significance of **material rights** is an estimate that is based on both quantitative and qualitative factors. This is ultimately a matter of judgment, even though it is supported by quantitative facts. Depending on the decision as to whether or not the customer has a material right to be deferred, there may be material differences in the amount and timing of revenues for the current and subsequent periods.

#### **Extension and termination options for the lessee**

**Extension and termination options** are included in many lease arrangements across the Deutsche Telekom Group. Local entities are responsible for managing their individual leases. As a result, lease contracts include different terms and conditions.

The main population of lease contracts in the Deutsche Telekom Group comprises arrangements for cell site infrastructure, land/ground underneath the infrastructure, switch sites, office buildings, and retail stores, which are mainly located in the United States and Germany. The length of the lease term in these contracts is the main factor in measuring the lease liabilities.

The majority of cell site leases in the United States have an initial non-cancelable term of 5 to 15 years, with several renewal options that can extend the lease term from five to 35 years. Cell site leases in Germany, on the other hand, have an initial non-cancelable period of eight years, during which the lease cannot be terminated. After this initial period of time, the lease extends automatically if the lessee does not terminate the lease. Unless terminated by the lessee, leases extend by a maximum of eight years twice and six years once. In the event of termination, the sites can be used for up to another five years.

In **determining the lease term**, management applies judgment and considers all facts and circumstances that create an economic incentive for Deutsche Telekom to exercise an extension option, or not to exercise a termination option. Extension options (or periods after termination options) are only included in the lease term if Deutsche Telekom is reasonably certain to exercise an option to extend the lease, or not to exercise an option to terminate the lease.

In determining the duration of leases of cell site space, land/ground, switch sites, office buildings, and retail stores, which are the most relevant lease contracts in the Deutsche Telekom Group, the following are the most relevant factors that are considered:

- Rapidly advancing and ever-changing technology in the telecommunications industry requires flexible lease contracts, i.e., management tries to minimize longer periods during which the contracts cannot be canceled.
- When determining whether an extension of a lease contract is reasonably certain, in addition to any significant penalties for terminating (or not extending) the lease, business plans and the business model are considered, e.g., cost/benefit analysis, consolidation plans for the mobile network and office facilities, new mobile network standards, significance of the property for the underlying operations, replacement or usage of additional technology, as well as the availability and cost of alternative locations.
- Often leasehold improvements can be used in alternative locations. In many cases, the costs of moving or replacing the asset or initial construction costs are not the main factor considered when determining whether to extend or not to extend the lease.
- Significant investments made in a location, e.g., construction of towers and masts on the leased land, are economic penalties typically considered when determining the lease term.

After having considered all of the factors above, for cell site contracts in the United States as of the lease commencement date, Deutsche Telekom concluded that it is generally not reasonably certain that an option to extend the lease term beyond the initial non-cancelable lease term will be exercised. With the sale of the GD tower companies, for cell sites contracts in Germany, a lease term of eight years for the entire portfolio is considered reasonably certain. Increasing uncertainty about future changes in the telecommunications market and strategic considerations are important factors in this assessment. Extension options after that period are typically not considered reasonably certain at commencement of the lease. Payments associated with these optional periods are not included in the measurement of the lease liabilities.

Most extension options for office and shop leases are not included in the lease liability because Deutsche Telekom could replace the leased assets without significant cost or business disruption.

Exposure to future additional cash outflows will only arise when an extension option (not determined to be reasonably certain) is exercised or when a termination option (determined to be reasonably certain) is not exercised.

After the commencement date, the likelihood of exercising an option is only reassessed if a significant event or a significant change in circumstances occurs that affects this judgment, and this is within the control of the lessee. Deutsche Telekom reassesses the lease term when an option is exercised (or not exercised) or Deutsche Telekom becomes obligated to exercise or not to exercise it.

For further information on undiscounted future lease payments, please refer to Note 13 "[Financial liabilities and lease liabilities.](#)"

## Consolidation methods

### Subsidiaries

Subsidiaries are companies that are directly or indirectly controlled by Deutsche Telekom. Control only exists if an investor has power over the investee, is exposed to variable returns or has rights to variable returns, and is able to use its power to affect the amount of variable returns. The existence of substantive potential voting rights that are currently exercisable or convertible, including potential voting rights held by other Group companies, are considered when assessing whether an entity is controlled.

All subsidiaries are included in the consolidated financial statements, unless the costs of preparing the reporting required for inclusion by means of full consolidation would outweigh the benefits of such reporting, which is primarily the case for subsidiaries which an operating segment or the Group considers to be insignificant based on the following criterion: the sum of all unconsolidated subsidiaries must not account for more than 1% of the Group's total assets, revenue, profit/loss for the year, contingent assets/liabilities, and other financial obligations. If the 1% limit is exceeded, Deutsche Telekom determines which companies are to be included in the consolidated financial statements, taking the long-term development of the investment and consolidation effects into account. Aside from the quantitative criteria, qualitative criteria will also be used to assess the materiality of an entity for the consolidated group. Excluding a subsidiary must not significantly change the segment result or the Group's profit/loss for the year, nor may other significant trends be ignored. Subsidiaries that are not included in the consolidated financial statements due to their subordinate significance are recognized under other assets.

Income and expenses of a subsidiary are included in the consolidated financial statements from the acquisition date and remain included in the consolidated financial statements until the date on which the parent company ceases to control the subsidiary. If necessary, the subsidiaries' accounting principles will be aligned with the uniform accounting principles applied by the Deutsche Telekom Group. Intercompany income and expenses, receivables and liabilities, and profits or losses are eliminated.

Upon loss of control, a gain or loss from the disposal of the subsidiary is recognized in the consolidated income statement in the amount of the difference between (i) the proceeds from the disposal of the subsidiary, the fair value of the remaining shares, the carrying amount of the non-controlling interests, and the cumulative amounts of other comprehensive income attributable to the subsidiary, and (ii) the carrying amount of the subsidiary's net assets to be disposed of.

#### **Joint operations, joint ventures, and associates**

Joint arrangements, in which two or more parties have joint control over an activity, must be classified as either joint operations or joint ventures.

A **joint operation** is characterized by the fact that the parties that have joint control of the arrangement (joint operators) have rights to the assets, and obligations for the liabilities, relating to the arrangement. A joint operator accounts for the assets, liabilities, revenues and expenses relating to its interest in the joint operation as well as its share of the joint assets, liabilities, revenues, and expenses.

In a **joint venture**, on the other hand, the parties that have joint control of the arrangement (partners) have rights to the net assets of the entity. **Associates** are companies on which Deutsche Telekom has a significant influence, and that are neither subsidiaries nor joint ventures. As with joint ventures, associates are accounted for using the **equity method**.

Investments in joint ventures and associates that are included in the consolidated financial statements using the equity method are recognized at cost at the time of acquisition. The carrying amount of the investment may include goodwill as the positive difference between the cost of the investment and Deutsche Telekom's proportionate share in the fair values of the entity's identifiable net assets. If necessary, the accounting principles of joint ventures and associates will be aligned with the uniform accounting principles applied by the Deutsche Telekom Group. The carrying amount of the investment accounted for using the equity method is tested for impairment provided there are indications of impairment. If the carrying amount of the investment exceeds its recoverable amount, an impairment loss must be recognized in the amount of the difference. The recoverable amount is measured at the higher of fair value less costs of disposal and value in use.

Upon loss of significant influence, a gain or loss from the disposal of the joint venture/associate is recognized under other operating income or expense in the amount of the difference between (i) the proceeds from the disposal of the shares, the fair value of the remaining shares, and the cumulative amounts of other comprehensive income attributable to the joint venture or associate, and (ii) the carrying amount of the investment to be disposed of.

The materiality assessment for jointly controlled entities and associates is generally performed using the same methods as for subsidiaries, but is limited to the criteria of profit/loss for the year, contingent assets and liabilities, and other financial obligations.

#### **Business combinations**

A business combination exists when Deutsche Telekom obtains control of another entity. All business combinations must be accounted for using the acquisition method. The cost of an acquired subsidiary is measured at the fair value of the consideration transferred, i.e., the sum of the assets transferred, liabilities assumed, and equity instruments issued. Transaction costs are generally recognized as expense. The acquisition cost is allocated to the acquired assets, liabilities, and contingent liabilities. The identifiable assets acquired and the liabilities and contingent liabilities assumed are recognized in full at their fair values at the acquisition date, regardless of the level of the investment held by Deutsche Telekom.

Goodwill arising in a business combination is measured as the excess of the aggregate of the cost of acquisition, the amount of any non-controlling interest in the acquiree, and, in a business combination achieved in stages, the fair value of the equity interest held by Deutsche Telekom in the acquiree prior to the acquisition date over the fair value of the net assets acquired. Any difference arising on the revaluation of equity interests previously held by Deutsche Telekom is recognized in profit or loss.

For all business combinations there is an option in relation to the measurement of the non-controlling interests. These can be recognized either directly at their fair value (i.e., the non-controlling interest in the enterprise value of the acquiree) or at the non-controlling interest in the fair value of the net assets acquired. As a result, in the first case, the non-controlling interests also have a share in the goodwill arising from the business combination, while in the second case the non-controlling interest is limited to the remeasured assets and liabilities and the goodwill is therefore recognized only as the amount attributable to Deutsche Telekom.

Transactions relating to the further acquisition or sale of equity interests with other shareholders that do not affect Deutsche Telekom's controlling interest do not lead to any change in goodwill. The difference between the fair value of the consideration transferred or received (i.e., the purchase price of the interests) and the carrying amount of the equity attributable to the non-controlling interests must be offset directly against consolidated shareholders' equity in capital reserves or increases the capital reserves.

### Changes in the composition of the Group and other transactions

In the 2023 financial year, Deutsche Telekom conducted the following transactions, which had an impact on the composition of the Group. Other changes to the composition of the Group not shown here were of no material significance for Deutsche Telekom's consolidated financial statements.

#### Sale of the GD tower companies

On July 13, 2022, Deutsche Telekom agreed to sell a 51.0 % stake in the cell tower business companies in Germany and Austria (GD tower companies), hitherto assigned to the Group Development operating segment, to DigitalBridge and Brookfield. The sale price is based on an enterprise value of EUR 17.5 billion. Since closing of the transaction on February 1, 2023, Deutsche Telekom no longer exercises control over the GD tower companies. All necessary regulatory approvals had been duly granted and all other closing conditions met. The total gain on deconsolidation resulting from the sale amounts to EUR 15.9 billion, of which EUR 12.9 billion is included as other operating income in profit/loss after taxes from discontinued operation as of the deconsolidation date. The remaining EUR 3.0 billion will be recognized pro rata in later periods due to the sale-and-leaseback transaction described below. The stake retained by Deutsche Telekom of 49.0 % has been included in the consolidated financial statements using the equity method since February 1, 2023. The carrying amount of the investment amounted to EUR 3.4 billion as of December 31, 2023.

For summarized financial information on the joint venture, as well as a reconciliation to the carrying amount of the investment, please refer to Note 10 "Investments accounted for using the equity method."

As a result of the sales agreement, the GD tower companies had been recognized in the consolidated financial statements as a discontinued operation from the third quarter of 2022 until their sale on February 1, 2023. The consolidated income statement was adjusted with retrospective effect in the comparative periods. Thus, the contributions by the GD tower companies were no longer included in the individual items of the consolidated income statement. Instead, profit or loss after taxes was recognized in the item "Profit/loss after taxes from discontinued operation." Assets and the directly associated liabilities have been shown as held for sale in the consolidated statement of financial position since December 31, 2022. In the consolidated statement of cash flows, the contributions by the GD tower companies have each been stated in a separate "of which" line item.

For further information on the assets and liabilities of the GD tower companies included in the consolidated financial statements as of December 31, 2022, please refer to Note 5 "Non-current assets and disposal groups held for sale and liabilities directly associated with non-current assets and disposal groups held for sale".

Once the transaction was consummated, Deutsche Telekom leased back the majority of the sold passive network infrastructure in Germany and Austria under a sale-and-leaseback agreement with a non-cancellable lease term of eight years. Overall, lease liabilities in the amount of EUR 5.0 billion and, as a result of the sale-and-leaseback agreement, retained right-of-use assets in the amount of EUR 2.0 billion were recognized in the consolidated financial statements. The portion of the gain attributable to the retained use of the sold assets, amounting to EUR 3.0 billion, will have an impact on profit or loss in later periods by way of lower depreciation of the capitalized right-of-use assets. Furthermore, deferred tax assets of EUR 0.9 billion were recognized in the consolidated statement of financial position.

The cash inflow totaling EUR 10.7 billion resulting from the sale of the GD tower companies is recognized in the consolidated statement of cash flows as of December 31, 2023, with EUR 7.6 billion relating to the sale of the business operation recognized under net cash from/used in investing activities and EUR 3.1 billion relating to the sale and leaseback of the passive mobile infrastructure recognized under net cash used in/from financing activities.

### Sale of the U.S. Wireline Business

On September 6, 2022, T-Mobile US reached an agreement with Cogent Infrastructure (Cogent) on the sale of T-Mobile US' fiber-optic-based Wireline Business. Under the agreement, Cogent will take over all shares in the entity that holds all of the assets and liabilities related to the former Sprint's fiber-optic-based wireline network. The transaction was consummated on May 1, 2023. All necessary regulatory approvals had been duly granted and all other closing conditions met. The sale price was USD 1 and was subject to customary adjustments laid down in the purchase agreement. The cash proceeds received upon completion of the transaction amounted to USD 14 million (EUR 13 million). The loss on deconsolidation resulting from the sale amounted to EUR 4 million. In addition, upon completion of the transaction, T-Mobile US undertook to enter into a separate agreement on IP transit services, according to which T-Mobile US will pay a total of USD 0.7 billion (around EUR 0.6 billion) in agreed installments in subsequent periods to Cogent. In connection with the payment obligations entered into as part of the transaction, total liabilities of EUR 0.7 billion had already been recognized in the 2022 financial year. These liabilities included, under financial liabilities, the present value of the future payments for IP transit services. Since a specific use for these services has not been identified, the corresponding expense was already recognized in full in the 2022 financial year under other operating expenses.

As a result of the concluded sales agreement, the assets and liabilities of the Wireline Business were reported in the consolidated statement of financial position as "held for sale" from September 30, 2022 up until their sale on May 1, 2023.

The composition of the Deutsche Telekom Group changed as follows in the 2023 financial year:

	Domestic	International	Total
<b>Consolidated subsidiaries</b>			
January 1, 2023	60	293	353
Additions	2	5	7
Disposals (including mergers)	6	60	66
<b>December 31, 2023</b>	<b>56</b>	<b>238</b>	<b>294</b>
<b>Associates accounted for using the equity method</b>			
January 1, 2023	5	9	14
Additions	0	1	1
Disposals	0	0	0
<b>December 31, 2023</b>	<b>5</b>	<b>10</b>	<b>15</b>
<b>Joint ventures accounted for using the equity method</b>			
January 1, 2023	12	3	15
Additions	7	1	8
Disposals	1	1	2
<b>December 31, 2023</b>	<b>18</b>	<b>3</b>	<b>21</b>
<b>Total</b>			
January 1, 2023	77	305	382
Additions	4	5	9
Disposals (including mergers)	2	59	61
<b>December 31, 2023</b>	<b>79</b>	<b>251</b>	<b>330</b>

The following transaction will change the composition of the Deutsche Telekom Group in the future:

### Agreement on the acquisition of Ka'ena in the United States

On March 9, 2023, T-Mobile US entered into a Merger and Unit Purchase Agreement for the acquisition of 100 % of the outstanding equity of Ka'ena Corporation and its subsidiaries including, among others, Mint Mobile, for a maximum purchase price of USD 1.35 billion to be paid out 39 % in cash and 61 % in shares of T-Mobile US common stock. The purchase price is variable dependent upon specified performance indicators of Ka'ena Corporation and consists of an upfront payment at deal close, subject to certain agreed-upon adjustments, and a variable earnout payable 24 months after the close of the transaction. The upfront payment is expected to be a revised amount of around USD 1.2 billion (before working capital adjustments). The transaction is subject to approval by the authorities as well as other customary closing conditions and is expected to close around the end of the first quarter of 2024.

## Other transactions that had no effect on the composition of the Group

### Deutsche Telekom AG's shareholder remuneration

The Board of Management of Deutsche Telekom AG proposes to the shareholders' meeting a dividend for the 2023 financial year of EUR 0.77 per dividend-bearing share. On November 2, 2023, the Board of Management additionally announced plans to buy back Deutsche Telekom AG shares up to a total purchase price of EUR 2 billion in the 2024 financial year as part of a share buy-back program. The buy-back commenced on January 3, 2024 and will be carried out in several tranches through December 31, 2024. The purpose of the share buy-back is to recoup part of the dilution effect from Deutsche Telekom AG's 2021 capital increase. The repurchased shares will therefore be canceled.

In the period from January 3, 2024 to February 13, 2024, Deutsche Telekom AG bought back around 9 million shares with a total volume of EUR 0.2 billion under the share buy-back program.

### End of T-Mobile US' share buy-back program from September 2022

In the period from January 1, 2023 to September 30, 2023, T-Mobile US bought back around 77.5 million additional shares with a total volume of USD 11.0 billion (EUR 10.3 billion) under the share buy-back program announced on September 8, 2022. This puts the total number of shares that have been repurchased since the program's inception in September 2022 at around 98.8 million at a price of USD 14.0 billion (EUR 13.2 billion). The budget for the share buy-back program was therefore fully exhausted by the end of September 2023.

### T-Mobile US' shareholder return program from September 2023

On September 6, 2023, T-Mobile US announced that its Board of Directors has authorized a shareholder return program of up to USD 19 billion that will run from October 1, 2023 through December 31, 2024. The program comprises additional share buy-backs and dividends to be paid out. The amount available for share buy-backs will be reduced by the amount of any dividends approved by the Board of Directors of T-Mobile US.

On September 25, 2023, the T-Mobile US Board of Directors declared an initial cash dividend of USD 0.65 per share, which was paid out on December 15, 2023 to the shareholders registered as of close of business on December 1, 2023. EUR 0.4 billion of the cash dividend was attributable to Deutsche Telekom's stake and EUR 0.3 billion to non-controlling interests in T-Mobile US. In the 2023 financial year, T-Mobile US bought back 15.5 million shares with a total volume of USD 2.2 billion (EUR 2.0 billion) under its share buy-back program.

On January 24, 2024, the T-Mobile US Board of Directors declared a further cash dividend of USD 0.65 per share, which will be paid out on March 14, 2024 to the shareholders registered as of close of business on March 1, 2024. Furthermore, in the period from January 1, 2024 to January 31, 2024, T-Mobile US bought back a further 9 million shares with a total volume of USD 1.5 billion (around EUR 1.4 billion) under its share buy-back program.

For further information on the overview of dividend payments attributable to non-controlling interests in T-Mobile US, please refer to Note 19 "[Shareholders' equity](#)."

### Transfer of T-Mobile US shares to SoftBank

On December 28, 2023, in accordance with the supplementary agreement from February 20, 2020 (Letter Agreement) closed between T-Mobile US, SoftBank, and Deutsche Telekom in the course of the merger of T-Mobile US and Sprint, T-Mobile US issued 48,751,557 shares of common stock in T-Mobile US to SoftBank. The condition of the Letter Agreement that the volume-weighted price of T-Mobile US shares reach or exceed USD 149.35 (after adjusting for the first cash dividend by T-Mobile US) for 45 days was satisfied on December 22, 2023. The shares were issued from the treasury shares held by T-Mobile US. As a result, Deutsche Telekom's stake in T-Mobile US declined and amounted to 47.9 % as of December 31, 2023. Taking the treasury shares held by T-Mobile US into account, Deutsche Telekom's ownership stake in T-Mobile US stood at 50.6 % as of December 31, 2023. The shares issued to SoftBank are subject to the proxy agreement between SoftBank and Deutsche Telekom. The percentage of T-Mobile US shares for which Deutsche Telekom can exercise voting rights, based on the agreement concluded with SoftBank in connection with the acquisition of Sprint, amounted to 58.0 % as of December 31, 2023.

### Sale of T-Mobile US shares by Deutsche Telekom

In early 2024, Deutsche Telekom began selling a portion of its T-Mobile US share portfolio on the market, without jeopardizing its own majority ownership position in T-Mobile US. In the period from January 2, 2024 to February 13, 2024, Deutsche Telekom sold around 5 million T-Mobile US shares with a total volume of EUR 0.9 billion.



## Principal subsidiaries

The Group's principal subsidiaries are presented in the following table:

Name and registered office		Deutsche Telekom share %	Net revenue <sup>a</sup> millions of €	Profit (loss) from operations <sup>a</sup> millions of €	Shareholders' equity <sup>a</sup> millions of €	Average number of employees	Assigned to segment
Telekom Deutschland GmbH, Bonn, Germany	<b>Dec. 31, 2023/2023</b>	100.00	22,740	5,614	7,542	2,719	Germany
	Dec. 31, 2022/2022	100.00	22,208	5,181	9,614	3,750	
T-Systems International GmbH, Frankfurt/Main, Germany	<b>Dec. 31, 2023/2023</b>	100.00	2,213	(296)	1,008	6,124	Systems Solutions
	Dec. 31, 2022/2022	100.00	2,134	(335)	884	6,180	
T-Mobile US, Inc., Bellevue, Washington, United States <sup>b, c</sup>	<b>Dec. 31, 2023/2023</b>	47.91	72,436	14,487	64,944	66,446	United States
	Dec. 31, 2022/2022	48.14	75,436	7,470	71,681	69,056	
Hellenic Telecommunications Organization S.A. (OTE), Athens, Greece <sup>b</sup>	<b>Dec. 31, 2023/2023</b>	52.77	3,469	698	2,601	10,562	Europe
	Dec. 31, 2022/2022	50.86	3,455	579	2,525	11,048	
Hrvatski Telekom d.d., Zagreb, Croatia <sup>b, c</sup>	<b>Dec. 31, 2023/2023</b>	53.02	1,039	157	2,168	4,727	Europe
	Dec. 31, 2022/2022	53.02	984	140	2,147	4,784	
Magyar Telekom Telecommunications Public Limited Company, Budapest, Hungary <sup>b, c</sup>	<b>Dec. 31, 2023/2023</b>	63.55	2,225	388	2,353	6,719	Europe
	Dec. 31, 2022/2022	61.39	1,907	277	2,173	6,741	
Slovak Telekom a.s., Bratislava, Slovakia <sup>b, c</sup>	<b>Dec. 31, 2023/2023</b>	100.00	825	195	1,548	2,620	Europe
	Dec. 31, 2022/2022	100.00	806	200	1,564	3,046	
T-Mobile Austria Holding GmbH, Vienna, Austria <sup>b, c</sup>	<b>Dec. 31, 2023/2023</b>	100.00	1,458	194	2,635	1,823	Europe
	Dec. 31, 2022/2022	100.00	1,391	139	2,786	1,789	
T-Mobile Czech Republic a.s., Prague, Czech Republic <sup>b, c</sup>	<b>Dec. 31, 2023/2023</b>	100.00	1,280	307	2,063	3,161	Europe
	Dec. 31, 2022/2022	100.00	1,226	377	2,155	3,141	
T-Mobile Polska S.A., Warsaw, Poland <sup>b, c</sup>	<b>Dec. 31, 2023/2023</b>	100.00	1,522	89	2,039	3,464	Europe
	Dec. 31, 2022/2022	100.00	1,413	86	1,872	3,682	

<sup>a</sup> IFRS figures of the respective subgroup.

<sup>b</sup> Consolidated subgroup.

<sup>c</sup> Indirect shareholding of Deutsche Telekom AG.

In accordance with § 313 HGB, the full statement of investment holdings, which forms part of the notes to the consolidated financial statements, is published in the company register together with the consolidated financial statements. It is available upon request from Deutsche Telekom AG, Bonn, Investor Relations, and on Deutsche Telekom's website ([www.telekom.com](http://www.telekom.com)) under Investor Relations. Furthermore, the statement of investment holdings includes a full list of all subsidiaries that exercise simplification options in accordance with § 264 (3) HGB or disclosure simplification options in accordance with § 264b HGB.

The following table shows the non-controlling interests for principal subsidiaries:

Name and registered office		Percentage of shareholding for non-controlling interests %	Percentage of voting rights for non-controlling interests %	Cumulative non-controlling interests <sup>a</sup> millions of €	Dividends paid out to non-controlling interests millions of €
T-Mobile US, Inc., Bellevue, Washington, United States <sup>b, c, d</sup>	<b>Dec. 31, 2023/2023</b>	52.09	41.99	31,878	324
	Dec. 31, 2022/2022	51.86	47.33	36,332	0
Hellenic Telecommunications Organization S.A. (OTE), Athens, Greece <sup>b</sup>	<b>Dec. 31, 2023/2023</b>	47.23	41.12	1,024	120
	Dec. 31, 2022/2022	49.14	42.86	1,022	124
Hrvatski Telekom d.d., Zagreb, Croatia <sup>b, c</sup>	<b>Dec. 31, 2023/2023</b>	46.99	46.44	807	41
	Dec. 31, 2022/2022	46.99	46.97	806	40
Magyar Telekom Telecommunications Public Limited Company, Budapest, Hungary <sup>b, c</sup>	<b>Dec. 31, 2023/2023</b>	36.45	33.59	573	40
	Dec. 31, 2022/2022	38.61	35.87	564	27

<sup>a</sup> IFRS figures at the level of the consolidated financial statements of Deutsche Telekom.

<sup>b</sup> Consolidated subgroup.

<sup>c</sup> Indirect shareholding of Deutsche Telekom AG.

<sup>d</sup> Taking into consideration treasury shares held by T-Mobile US, non-controlling interests amount to 49.4 % as of December 31, 2023.

Deutsche Telekom held 47.9 % of the shares in T-Mobile US as of the reporting date. Taking the treasury shares held by T-Mobile US into account, Deutsche Telekom had a 50.6 % ownership stake in T-Mobile US as of December 31, 2023. The proportion of T-Mobile US shares for which Deutsche Telekom can exercise voting rights totaled around 58.0 % as of December 31, 2023.

For further information, please refer to the section "Other transactions that had no effect on the composition of the Group" under "Summary of accounting policies."

Summarized financial information for subsidiaries with significant non-controlling interests:

millions of €							
Name and registered office		Current assets <sup>a</sup>	Non-current assets <sup>a</sup>	Current liabilities <sup>a</sup>	Non-current liabilities <sup>a</sup>	Profit (loss) <sup>a</sup>	Total comprehensive income <sup>a</sup>
T-Mobile US, Inc., Bellevue, Washington, United States <sup>b, c</sup>	<b>Dec. 31, 2023/2023</b>	19,717	183,719	20,011	118,481	7,713	5,607
	Dec. 31, 2022/2022	20,901	194,680	24,040	119,860	2,206	6,711
Hellenic Telecommunications Organization S.A. (OTE), Athens, Greece <sup>b</sup>	<b>Dec. 31, 2023/2023</b>	1,232	4,486	1,653	1,464	513	504
	Dec. 31, 2022/2022	1,359	4,504	1,878	1,461	385	416
Hrvatski Telekom d.d., Zagreb, Croatia <sup>b, c</sup>	<b>Dec. 31, 2023/2023</b>	635	1,908	294	81	130	130
	Dec. 31, 2022/2022	732	1,744	240	90	82	76
Magyar Telekom Telecommunications Public Limited Company, Budapest, Hungary <sup>b, c</sup>	<b>Dec. 31, 2023/2023</b>	822	3,372	907	932	221	310
	Dec. 31, 2022/2022	671	3,315	766	1,047	170	20

<sup>a</sup> IFRS figures of the respective subgroup.

<sup>b</sup> Consolidated subgroup.

<sup>c</sup> Indirect shareholding of Deutsche Telekom AG.

millions of €				
Name and registered office		Net cash from operating activities <sup>a</sup>	Net cash (used in) from investing activities <sup>a</sup>	Net cash (used in) from financing activities <sup>a</sup>
T-Mobile US, Inc., Bellevue, Washington, United States <sup>b, c</sup>	<b>2023</b>	25,206	(9,869)	(14,849)
	2022	23,569	(16,165)	(8,978)
Hellenic Telecommunications Organization S.A. (OTE), Athens, Greece <sup>b</sup>	<b>2023</b>	1,205	(505)	(826)
	2022	1,318	(508)	(853)
Hrvatski Telekom d.d., Zagreb, Croatia <sup>b, c</sup>	<b>2023</b>	367	(328)	(190)
	2022	346	(146)	(194)
Magyar Telekom Telecommunications Public Limited Company, Budapest, Hungary <sup>b, c</sup>	<b>2023</b>	591	(308)	(237)
	2022	514	(281)	(244)

<sup>a</sup> IFRS figures of the respective subgroup.

<sup>b</sup> Consolidated subgroup.

<sup>c</sup> Indirect shareholding of Deutsche Telekom AG.

## Structured entities

Deutsche Telekom processes factoring transactions by means of structured entities.

For further information, please refer to Note 43 "Financial instruments and risk management."

Since 2014, Deutsche Telekom has consolidated four structured leasing SPEs, and since 2018 two more such SPEs, for real estate as well as operating and office equipment at two sites for the operation of data centers in Germany. The two data centers were built under the management of an external leasing company and are operated by T-Systems International GmbH. Apart from the contractual obligations to make lease payments to the leasing SPEs, Deutsche Telekom has no obligation to give them further financial support.

T-Mobile USA Tower LLC and T-Mobile West Tower LLC, which are included in the consolidated financial statements as investments accounted for using the equity method, are also structured entities.

For further information, please refer to Note 10 "Investments accounted for using the equity method."

### Joint operations

On the basis of a contractual arrangement concluded by T-Mobile Polska S.A., Deutsche Telekom combined the activities for the planning, building, and operation of the Polish mobile communications network with a partner in 2011 to generate savings. Deutsche Telekom recognizes its share (50 %) of the corresponding assets in line with the economic substance in the consolidated statement of financial position.

### Currency translation

Foreign-currency transactions are translated into the functional currency at the exchange rate at the date of transaction. At the reporting date, monetary items are translated at the closing rate, and non-monetary items are translated at the exchange rate at the date of transaction. Exchange rate differences are recognized in profit or loss.

The assets and liabilities of Group entities whose functional currency is not the euro are translated into euros from the local currency using the middle rates at the reporting date. The income statements and corresponding profit or loss of foreign-currency denominated Group entities are translated at monthly average exchange rates for the period. The differences that arise from the use of both rates are recognized directly in equity.

The exchange rates of certain key currencies changed as follows:

€	Annual average rate			Rate at the reporting date	
	2023	2022	2021	Dec. 31, 2023	Dec. 31, 2022
100 Czech korunas (CZK)	4.16582	4.07089	3.89888	4.04417	4.14345
100 Croatian kuna (HRK) <sup>a</sup>	n.a.	13.27140	13.28220	n.a.	13.27230
1,000 Hungarian forints (HUF)	2.61802	2.55675	2.78908	2.61507	2.49707
100 Macedonian denars (MKD)	1.62354	1.62314	1.62324	1.62352	1.62299
100 Polish zlotys (PLN)	22.01400	21.33620	21.90100	23.05050	21.34570
1 U.S. dollar (USD)	0.92468	0.94930	0.84568	0.90506	0.93655

<sup>a</sup> Croatia joined the eurozone as a member of the European Union as of January 1, 2023. A fixed conversion rate was set for the kuna (HRK), Croatia's national currency at that time.

### Development of the economic environment and the associated impact

The macroeconomic challenges currently facing society, politics, and business are multi-faceted. The global economy continues to be beset by the challenges of relatively high interest rates and dampened growth prospects. Tougher financing conditions, weak trade growth, and diminished business and consumer confidence are negatively impacting the economic outlook. Growing geopolitical tensions are further contributing to increased uncertainty about the economic outlook.

Deutsche Telekom is aware that, in view of the current developments, it is only possible to extrapolate past experience to the future to a limited extent. Deutsche Telekom continues to address these challenges and considers them in its business decisions in the course of developing measures to mitigate the risks. For instance, interest rate risks are countered by reducing the variable-interest debt portfolio. With respect to energy supply, Deutsche Telekom's national companies pursue different procurement strategies, e.g., by concluding power purchase agreements, to balance long-term supply reliability and appropriate prices.

For further information on risk mitigation measures, please refer to the section "[Risk and opportunity management](#)" in the combined management report.

Deutsche Telekom also considers the development of the economic environment in its consolidated financial statements and financial reporting, e.g., when determining the impairment of goodwill, the recognition of deferred taxes, and the measurement of provisions and financial instruments. In the reporting year, for example, the current macroeconomic developments and the associated rise in discount rates resulted in impairment losses on the carrying amounts of the investments in the GD tower companies and GlasfaserPlus, which are accounted for using the equity method.

### Impact of climate change

In the 2023 financial year, Deutsche Telekom analyzed potential sustainability risks in the areas of climate change and scarcity of resources. Climate change risks are already visible in the form of increasingly extreme weather conditions. Such storm events could damage the infrastructure and disrupt network operation with direct or indirect effects on operations. The risk is assessed in relation to the continuation of operations as part of risk management and is managed at an operational level in the business units.

Deutsche Telekom can take further action to help prevent climate change and to conserve resources by reducing its own CO<sub>2</sub> emissions. For this reason, Deutsche Telekom has set itself the goal of achieving climate neutrality in the Company by the end of 2025 (Scope 1 and 2). As a new interim goal on our journey towards climate neutrality along the entire value chain, Deutsche Telekom has committed to reducing CO<sub>2</sub> emissions across Scopes 1 to 3 by 55 % in absolute terms by 2030 compared with 2020. Deutsche Telekom then wants to reach net zero across all three scopes along the entire value chain by 2040. Since 2021, the Group has covered 100 % of its electricity requirement with renewable energy. This is achieved through power purchase agreements and other forms of direct purchase, such as through guarantees of origin.

Climate protection also carries financial risks, whether from the introduction of levies on CO<sub>2</sub> emissions or increased energy costs, as well as stricter requirements for products, for example in relation to energy efficiency. The measures Deutsche Telekom is taking to counter these risks include measuring the Group's own energy efficiency and finding ways to improve it. The ESG targets agreed from 2021 for Board of Management remuneration in relation to the respective annual energy consumption as well as the planned annual CO<sub>2</sub> emissions for Scope 1 and 2 also contribute to achieving the climate targets and energy efficiency measures.

For further information, please refer to the combined management report in the sections "[Combined non-financial statement](#)" and "[Risk and opportunity management](#)."

Deutsche Telekom has currently not identified any key risks to its business model in the area of either climate change or scarcity of resources and, as such, also does not currently anticipate any significant impacts from such risks on its business model or on the presentation of its results of operations or financial position.

## Notes to the consolidated statement of financial position

### 1 Cash and cash equivalents

Cash and cash equivalents increased by EUR 1.5 billion year-on-year to EUR 7.3 billion.

For further information, please refer to Note 37 "[Notes to the consolidated statement of cash flows](#)."

Cash and cash equivalents have an original maturity of less than three months and mainly comprise fixed-term bank deposits. They also include small amounts of cash-in-hand and checks. Deutsche Telekom obtained cash collateral of EUR 39 million (December 31, 2022: EUR 156 million) on the basis of collateral contracts as surety for potential credit risks arising from derivative transactions.

As of December 31, 2023, Deutsche Telekom reported cash and cash equivalents of EUR 104 million (December 31, 2022: EUR 87 million) that is not freely available to Deutsche Telekom, mainly relating to liabilities issued by T-Mobile US and collateralized by assets, as well as cash balances held by the subsidiaries in Russia. These cash balances are not fully available for use by Deutsche Telekom AG or other Group companies.

### 2 Trade receivables

At EUR 16.2 billion, trade receivables decreased by EUR 0.6 billion against the 2022 year-end level, mainly as a result of a decline in receivables in the United States operating segment due to a decline in volume of devices sold and leased. Exchange rate effects, in particular from the translation of U.S. dollars into euros, also had a decreasing effect. By contrast, receivables increased in the Europe and Germany operating segments.

Of the total of trade receivables, EUR 13,910 million (December 31, 2022: EUR 14,013 million) is due within one year. As of the reporting date, trade receivables with a carrying amount of EUR 889 million were pledged as collateral in connection with asset-backed securities issued by T-Mobile US.

For information on allowances, credit ratings, and write-offs of receivables as well as on factoring agreements, please refer to Note 43 "[Financial instruments and risk management](#)."

### 3 Contract assets

The carrying amount of contract assets stood at EUR 2.4 billion as of December 31, 2023, unchanged against the prior-year level. Contract assets relate to receivables that have not yet legally come into existence, which arise from the earlier – as compared to billing – recognition of revenue, in particular from the sale of goods and merchandise under long-term multiple-element arrangements (e.g., mobile contract plus handset). Receivables from long-term construction contracts are also recognized under contract assets. Of the total contract assets, EUR 0.2 billion related to contract assets in connection with long-term construction contracts (December 31, 2022: EUR 0.3 billion).

In connection with the increased marketing of the Equipment Installment Plan in the United States operating segment, contract assets increased by EUR 67 million. Under this plan, discounts are granted on the purchase of a handset on the condition of a minimum service contract term.

For information on allowances of contract assets, please refer to Note 43 “Financial instruments and risk management.”

### 4 Inventories

millions of €	Dec. 31, 2023	Dec. 31, 2022
Raw materials and supplies	212	130
Work in process	49	34
Finished goods and merchandise	2,158	2,474
	<b>2,419</b>	<b>2,639</b>

The carrying amount of inventories decreased by EUR 0.2 billion compared to December 31, 2022 to EUR 2.4 billion, due to the sale of older terminal equipment and the reduction of warehouses and shops at former Sprint sites in the United States operating segment. Exchange rate effects, in particular from the translation of U.S. dollars into euros, also had a decreasing effect.

Write-downs of EUR 5 million (2022: EUR 39 million, 2021: EUR 23 million) on the net realizable value were recognized in profit or loss in 2023. The carrying amount of inventories expensed during the reporting period was EUR 19,833 million (2022: EUR 22,722 million, 2021: EUR 22,532 million).

Finished goods and merchandise primarily comprise retail products (e.g., terminal equipment and accessories) not manufactured by Deutsche Telekom and services rendered but not yet invoiced, primarily to business customers.

## 5 Non-current assets and disposal groups held for sale and liabilities directly associated with non-current assets and disposal groups held for sale

As of December 31, 2023, current assets recognized in the consolidated statement of financial position included EUR 0.2 billion (December 31, 2022: EUR 4.7 billion) in non-current assets and disposal groups held for sale. Current liabilities in the consolidated statement of financial position did not include any liabilities directly associated with non-current assets and disposal groups held for sale as of December 31, 2023 (December 31, 2022: EUR 3.3 billion). The change in carrying amounts resulted from the transactions described below.

millions of €

	Dec. 31, 2023			Dec. 31, 2022				
	T-Mobile US spectrum	Other	Total	GD tower companies	T-Mobile US Wireline Business	T-Mobile US spectrum	Other	Total
<b>Non-current assets and disposal groups held for sale</b>								
Cash and cash equivalents			0		26			26
Trade receivables			0	14	32			46
Inventories			0	11				11
Other current assets			0	7	9			16
Intangible assets	91		91	524	30	65		619
Of which: goodwill			0	523				523
Property, plant and equipment		120	120	1,573	192		28	1,793
Right-of-use assets			0	2,042	47			2,089
Deferred tax assets			0	71				71
Other non-current assets			0	6	6			12
<b>Total</b>	<b>91</b>	<b>120</b>	<b>211</b>	<b>4,248</b>	<b>342</b>	<b>65</b>	<b>28</b>	<b>4,683</b>
<b>Liabilities directly associated with non-current assets and disposal groups held for sale</b>								
Financial liabilities			0	14				14
Current lease liabilities			0	184	56			240
Trade and other payables			0	87	59			146
Other current provisions			0	28				28
Other current liabilities			0	26	4			30
Non-current lease liabilities			0	1,798	234			2,032
Provisions and similar obligations			0	26				26
Other non-current provisions			0	689	33			722
Deferred tax liabilities			0	61				61
Other non-current liabilities			0	45	3			48
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,958</b>	<b>389</b>	<b>0</b>	<b>0</b>	<b>3,347</b>

In 2023, transactions were agreed between T-Mobile US and several competitors for the exchange of mobile spectrum licenses in order to improve mobile network coverage. In the prior year, similar transactions were agreed between T-Mobile US and a number of competitors for the exchange of mobile spectrum licenses, which were consummated in the reporting year. The measurements use parameters that are not observable on the market (Level 3 inputs).

As of December 31, 2022, the carrying amounts included the reclassified assets and liabilities of the GD tower companies in the Group Development operating segment, and of the T-Mobile US Wireline Business in the United States operating segment. Both these entities were classified as held for sale as of December 31, 2022 on account of purchase agreements signed but not yet consummated.

The assets and liabilities of both entities were measured at the lower of the carrying amount and fair value less costs of disposal. The fair values were determined on the basis of the sale agreements concluded with the contracting parties.

For further information on the aforementioned business transactions, please refer to the section "[Changes in the composition of the Group and other transactions](#)" under "[Summary of accounting policies](#)."

No reversals of impairments of the carrying amounts of the non-current assets and disposal groups held for sale were recognized either in the reporting year or in the prior year.

## 6 Intangible assets

millions of €

	Internally generated intangible assets	Acquired intangible assets								Goodwill	Advance payments and intangible assets under development	Total
		Total	Acquired concessions, industrial and similar rights and assets	LTE licenses	UMTS licenses	GSM licenses	FCC licenses (T-Mobile US)	5G licenses	Other acquired intangible assets			
<b>Cost</b>												
<b>At December 31, 2021</b>	<b>10,383</b>	<b>132,041</b>	<b>1,618</b>	<b>5,893</b>	<b>727</b>	<b>1,256</b>	<b>91,873</b>	<b>2,449</b>	<b>28,225</b>	<b>37,775</b>	<b>1,764</b>	<b>181,963</b>
Currency translation	397	6,598	10	(79)	1	(2)	5,736	1	931	1,234	22	8,252
Changes in the composition of the Group	(1)	18	14	0	0	0	0	0	5	41	(1)	59
Additions	702	4,175	412	9	0	0	2,902	3	848	(0)	3,875	8,752
Disposals	(789)	(1,658)	(148)	(210)	0	(33)	0	(1)	(1,266)	0	(30)	(2,478)
Change from non-current assets and disposal groups held for sale	(10)	(95)	(0)	0	0	0	(61)	0	(33)	(527)	(7)	(639)
Reclassifications	1,458	1,683	(4)	(32)	0	2	0	117	1,599	(0)	(3,105)	36
<b>At December 31, 2022</b>	<b>12,141</b>	<b>142,762</b>	<b>1,901</b>	<b>5,582</b>	<b>728</b>	<b>1,223</b>	<b>100,450</b>	<b>2,569</b>	<b>30,309</b>	<b>38,524</b>	<b>2,518</b>	<b>195,945</b>
Currency translation	(302)	(3,758)	(6)	106	2	13	(3,391)	(1)	(480)	(632)	(44)	(4,735)
Changes in the composition of the Group	(2)	(0)	0	0	0	0	0	0	(0)	(5)	(1)	(9)
Additions	708	1,833	253	6	0	0	890	121	562	0	3,356	5,897
Disposals	(974)	(2,184)	(193)	0	(185)	0	(6)	0	(1,799)	0	(29)	(3,187)
Change from non-current assets and disposal groups held for sale	0	(3)	0	0	0	0	(1)	0	(2)	0	(1)	(4)
Reclassifications	1,462	2,037	10	1	72	(4)	0	22	1,937	0	(3,460)	39
<b>At December 31, 2023</b>	<b>13,032</b>	<b>140,687</b>	<b>1,964</b>	<b>5,696</b>	<b>617</b>	<b>1,232</b>	<b>97,942</b>	<b>2,711</b>	<b>30,526</b>	<b>37,887</b>	<b>2,340</b>	<b>193,945</b>
<b>Accumulated amortization and impairment losses</b>												
<b>At December 31, 2021</b>	<b>(6,552)</b>	<b>(25,429)</b>	<b>(1,038)</b>	<b>(2,581)</b>	<b>(679)</b>	<b>(737)</b>	<b>(2,480)</b>	<b>(139)</b>	<b>(17,774)</b>	<b>(17,243)</b>	<b>(91)</b>	<b>(49,315)</b>
Currency translation	(278)	(563)	(5)	19	(0)	1	(151)	(0)	(428)	(633)	(0)	(1,475)
Changes in the composition of the Group	0	(4)	(12)	0	0	0	0	0	8	0	0	(4)
Additions (amortization)	(1,858)	(4,894)	(324)	(352)	(25)	(54)	0	(129)	(4,011)	0	0	(6,752)
Additions (impairment)	(95)	(52)	(0)	(1)	0	(18)	0	0	(33)	0	(33)	(180)
Disposals	789	1,573	148	210	0	31	0	0	1,184	0	1	2,363
Change from non-current assets and disposal groups held for sale	4	26	0	0	0	0	(4)	0	30	0	0	30
Reclassifications	(56)	(39)	1	4	0	0	0	(2)	(41)	0	83	(12)
Reversal of impairment losses	0	1	0	0	0	1	0	0	0	0	0	1
<b>At December 31, 2022</b>	<b>(8,046)</b>	<b>(29,382)</b>	<b>(1,230)</b>	<b>(2,700)</b>	<b>(704)</b>	<b>(777)</b>	<b>(2,635)</b>	<b>(271)</b>	<b>(21,066)</b>	<b>(17,876)</b>	<b>(40)</b>	<b>(55,344)</b>
Currency translation	224	331	4	(41)	4	(10)	89	0	286	287	0	841
Changes in the composition of the Group	4	0	0	0	0	0	0	0	0	0	0	5
Additions (amortization)	(2,093)	(4,386)	(337)	(353)	(16)	(51)	0	(134)	(3,495)	0	0	(6,479)
Additions (impairment)	(71)	(5)	0	0	0	0	0	(4)	(2)	(1)	(24)	(101)
Disposals	974	2,157	193	0	185	0	0	(0)	1,779	0	1	3,133
Change from non-current assets and disposal groups held for sale	(0)	1	0	0	0	0	(1)	0	2	0	0	1
Reclassifications	(17)	(17)	0	(2)	0	2	0	0	(17)	0	36	2
Reversal of impairment losses	0	0	0	0	0	0	0	0	0	0	0	0
<b>At December 31, 2023</b>	<b>(9,024)</b>	<b>(31,300)</b>	<b>(1,369)</b>	<b>(3,096)</b>	<b>(532)</b>	<b>(836)</b>	<b>(2,547)</b>	<b>(408)</b>	<b>(22,513)</b>	<b>(17,591)</b>	<b>(26)</b>	<b>(57,941)</b>
<b>Net carrying amounts</b>												
<b>At December 31, 2022</b>	<b>4,095</b>	<b>113,380</b>	<b>671</b>	<b>2,882</b>	<b>24</b>	<b>446</b>	<b>97,815</b>	<b>2,299</b>	<b>9,243</b>	<b>20,647</b>	<b>2,478</b>	<b>140,600</b>
<b>At December 31, 2023</b>	<b>4,007</b>	<b>109,387</b>	<b>595</b>	<b>2,599</b>	<b>85</b>	<b>396</b>	<b>95,395</b>	<b>2,304</b>	<b>8,013</b>	<b>20,296</b>	<b>2,314</b>	<b>136,004</b>

The carrying amount of intangible assets decreased by EUR 4.6 billion to EUR 136.0 billion, mainly due to amortization and impairment losses of EUR 6.6 billion. This includes impairment losses of EUR 0.1 billion. Exchange rate effects, primarily from the translation of U.S. dollars into euros, also decreased the carrying amount by EUR 3.9 billion. Disposals reduced the carrying amount by EUR 0.1 billion. By contrast, capital expenditure had an increasing effect of EUR 5.9 billion on the carrying amount. EUR 1.0 billion of this related to the acquisition of mobile spectrum in the United States and Europe operating segments.

For further information on amortization and impairment losses, please refer to Note 27 "[Depreciation, amortization and impairment losses.](#)"

Expenditure on research and development recognized as an expense by Deutsche Telekom amounted to EUR 25.1 million in the reporting year (2022: EUR 30.3 million).

**Impairment losses** recognized in the 2023 financial year **on intangible assets, property, plant and equipment, and right-of-use assets** totaled EUR 0.2 billion (2022: EUR 1.2 billion). This was the result of the following effects:

**Impairment losses on non-current assets in the Systems Solutions operating segment and in the Group Headquarters & Group Services segment.** In the 2023 financial year, impairment losses on intangible assets and property, plant and equipment totaling EUR 150 million were recognized in the Systems Solutions cash-generating unit. These related to follow-up investments in connection with assets previously impaired in the 2020 to 2022 financial years. Furthermore, despite the business outlook remaining positive, the further increase in the cost of capital in the reporting year prompted yet another impairment loss to be recognized on non-current assets at the end of 2023. The recoverable amount – determined as fair value less costs of disposal – was calculated at EUR 935 million, which is EUR 104 million lower than the carrying amount of the Systems Solutions cash-generating unit. The fair values of the individual assets were set as the lower limit for the amount of the impairment loss. An external expert opinion was obtained to determine the fair values of the individual assets. The value was calculated using Level 3 input parameters. A discount rate of 8.63 % was used. EUR 70 million of the impairment loss recognized in this connection in the Systems Solutions operating segment related to intangible assets, and EUR 54 million to property, plant and equipment. Another EUR 26 million related to intangible assets recognized in the Group Headquarters & Group Services segment that are subject to use by the Systems Solutions operating segment and are allocated to the Systems Solutions cash-generating unit for the purposes of impairment testing.

The following impairment losses on non-current assets were recognized in the prior year:

**Impairment losses on non-current assets in the United States operating segment.** In the second quarter of 2022, T-Mobile US decommissioned the former Sprint's 3G CDMA network and began switching off the former Sprint's 4G LTE network, which was completed in the third quarter of 2022. Until now, the operation of these networks has been supported by Sprint's own fiber-optic-based wireline network. The assets of this wireline network, which mainly comprise land and buildings, communication systems and network technology, fiber-optic cable equipment and right-of-use assets, therefore had to be grouped together with the mobile assets for the purposes of the impairment test and were thus part of the United States cash-generating unit. Due to the decommissioning of Sprint's mobile networks, the assets of Sprint's fiber-optic-based wireline network generated cash inflows independently of the assets of the mobile business. As such, they were no longer assigned to the United States cash-generating unit. This resulted in an ad hoc impairment test of the fiber-optic-based wireline assets as of June 30, 2022. The fair value of the assets was determined using the combination of cost-, income-, and market value-based approaches, including assumptions of the market participants. The value was calculated using Level 3 input parameters. A discount rate of 7.5 % was used. The recoverable amount of the assets, calculated as fair value less costs of disposal, was EUR 452 million below the carrying amount and stood at EUR 649 million. EUR 228 million of the impairment loss recognized in this connection related to property, plant and equipment, EUR 201 million to right-of-use assets, and EUR 23 million to intangible assets.



On September 6, 2022, T-Mobile US had reached an agreement with Cogent on the sale of the fiber-optic-based Wireline Business of the former Sprint. The sale price was USD 1 and was subject to customary adjustments laid down in the purchase agreement. As a result of the purchase agreement concluded, the assets of the Wireline Business were reclassified as of September 30, 2022 to non-current assets and disposal groups held for sale. The remeasurement of these assets at the lower of carrying amount and fair value based on the purchase price less costs of disposal resulted in an impairment loss of EUR 375 million as of the date of the reclassification. EUR 300 million of the impairment loss related to property, plant and equipment, EUR 71 million to right-of-use assets, and EUR 4 million to intangible assets.

**Impairment losses on non-current assets in the Systems Solutions operating segment and in the Group Headquarters & Group Services segment.** In the 2022 financial year, impairment losses on intangible assets and property, plant and equipment totaling EUR 144 million were recognized. This was a consequence of several factors, including the ad hoc impairment testing carried out in the Systems Solutions cash-generating unit in 2021, and related to follow-up investments. Despite the positive business outlook, the increase in the cost of capital in the financial year prompted further impairment losses to be recognized on non-current assets in the Systems Solutions cash-generating unit at the end of 2022. The recoverable amount – determined as fair value less costs of disposal – was calculated at EUR 478 million, which is EUR 351 million lower than the carrying amount of the Systems Solutions cash-generating unit. The fair values of the individual assets were set as the lower limit for the amount of the impairment loss. An external expert opinion was obtained to determine the fair values of the individual assets. The value was calculated using Level 3 input parameters. A discount rate of 8.42 % was used. EUR 86 million of the impairment loss recognized in this connection in the Systems Solutions operating segment related to intangible assets, and EUR 24 million to property, plant and equipment. Another EUR 33 million related to intangible assets recognized in the Group Headquarters & Group Services segment that are subject to use by the Systems Solutions operating segment and are allocated to the Systems Solutions cash-generating unit for the purposes of impairment testing.

**Impairment losses on non-current assets in the Europe operating segment (Romania).** In the 2022 financial year, impairment losses on intangible assets and property, plant and equipment totaling EUR 117 million were recognized. These related to the Romania cash-generating unit, which operates in the structurally challenging and highly competitive Romanian market. In addition, high energy prices and sharp rises in interest rates had a negative impact on the enterprise value. The value in use was calculated at EUR 41 million, which is EUR 116 million lower than the carrying amount of the cash-generating unit. A discount rate of 9.48 % was used. EUR 85 million of the impairment loss related to property, plant and equipment and EUR 32 million to intangible assets.

In the 2023 financial year, the **carrying amount of goodwill in cash-generating units** in the operating segments decreased by EUR 0.4 billion to EUR 20.3 billion. This was the result of the following effects:

**United States operating segment.** The decrease in goodwill of EUR 0.4 billion compared with December 31, 2022 primarily relates to exchange rate effects from the translation of U.S. dollars into euros.

**Europe operating segment.** Changes in goodwill in the cash-generating units Poland, Hungary, and the Czech Republic result from exchange rate effects.

**Disclosures on annual impairment tests.** As of December 31, 2023, Deutsche Telekom carried out its annual impairment tests on the goodwill and intangible assets with an indefinite useful life (in particular, FCC licenses in the United States) assigned to the cash-generating units.

The recoverable amounts to be identified for the impairment tests were largely determined on the basis of the fair values less costs of disposal. With the exception of the United States cash-generating unit (Level 1 measurement), these figures were calculated using the net present value method. The main parameters are shown in the following table. The impairment tests on goodwill as of December 31, 2023 did not result in any need for impairment in the cash-generating units. Likewise no need for impairment had been identified in the cash-generating units at the reporting date of the prior year.

The recoverable amounts at the cash-generating units Croatia, Montenegro, and North Macedonia were determined using the value in use. The market price of an active and liquid market (share price) of T-Mobile US was used to determine the fair value less costs of disposal in the case of the United States cash-generating unit. The measurements of all other cash-generating units, as for the value in use, are founded on projections for a ten-year projection period that are based on financial plans that have been approved by management and are also used for internal purposes. The chosen planning horizon reflects the assumptions for short- to medium-term market developments and is selected to achieve a steady state in the business outlook that is necessary for calculating the perpetual annuity. This steady state can only be established based on this planning horizon, in particular due to the sometimes long investment cycles in the telecommunications industry and the investments planned and expected in the long run to acquire and extend the rights of spectrum use. Cash flows beyond the internal mid-term planning are extrapolated using appropriate growth rates defined separately for each cash-generating unit. These growth rates are based on real growth and inflation expected in the long term for the countries in which the respective unit operates. To achieve the sustainable growth rates set for the period of the perpetual annuity, additional sustainable investments derived specifically for each cash-generating unit are taken into account. The key assumptions on which management has based its determination of the recoverable amount include the following assumptions that were primarily derived from internal sources and are based on past experience and extended to include internal expectations, and that are underscored by external market

data and estimates: development of revenue, customer acquisition and retention costs, churn rates, capital expenditure, market share, and growth rates. Discount rates are determined on the basis of external figures derived from the market, taking account of the market and country risks associated with the cash-generating unit. Any significant future changes in the aforementioned assumptions would have an impact on the fair values of the cash-generating units. Changes in the assumptions may have a negative impact, as a result of future macroeconomic trends, continued intense competition, further possible legislation changes (e.g., as part of national austerity programs), and regulatory intervention.

For further information on the determination of the recoverable amounts of the cash-generating units, please refer to the section “Accounting policies” under “Summary of accounting policies.”

The following table provides an overview of the main factors affecting the measurement and the classification of the input parameters (levels) used to determine the recoverable amounts in accordance with IFRS 13.

		Goodwill carrying amount millions of €	Impairment millions of €	Detailed planning period years	Discount rates <sup>a</sup> %	Sustainable growth rate p. a. Ø in %	Level allocation of input parameters <sup>b</sup>
<b>Germany</b>	<b>2023</b>	4,848	0	10	4.74	0.0	Level 3
	2022	4,845	0	10	4.48	0.0	Level 3
<b>United States</b>	<b>2023</b>	10,964	0	n.a.	n.a.	n.a.	Level 1
	2022	11,345	0	n.a.	n.a.	n.a.	Level 1
<b>Europe</b>							
Poland	<b>2023</b>	200	0	10	7.29	1.0	Level 3
	2022	186	0	10	7.47	1.0	Level 3
Hungary	<b>2023</b>	866	0	10	8.85	1.0	Level 3
	2022	827	0	10	9.09	1.0	Level 3
Czech Republic	<b>2023</b>	816	0	10	5.89	1.0	Level 3
	2022	836	0	10	6.50	1.0	Level 3
Croatia	<b>2023</b>	506	0	10	6.50	1.0	Value in use
	2022	506	0	10	7.16	1.0	Value in use
Slovakia	<b>2023</b>	417	0	10	5.78	1.0	Level 3
	2022	423	0	10	5.81	1.0	Level 3
Greece	<b>2023</b>	422	0	10	5.89	1.0	Level 3
	2022	422	0	10	6.23	1.0	Level 3
Austria	<b>2023</b>	613	0	10	5.87	1.0	Level 3
	2022	613	0	10	5.67	1.0	Level 3
Other <sup>c</sup>	<b>2023</b>	53	0	10	8.38–9.04	1.0	Value in use
	2022	53	0	10	8.75–8.98	1.0	Value in use
<b>Group Headquarters &amp; Group Services</b>							
Deutsche Telekom IT	<b>2023</b>	590	0	10	8.44	1.0	Level 3
	2022	590	0	10	8.61	1.0	Level 3
<b>Deutsche Telekom in total</b>	<b>2023</b>	<b>20,296</b>	<b>0</b>				
	<b>2022</b>	<b>20,647</b>	<b>0</b>				

<sup>a</sup> Discount rate consistently after taxes. The discount rate before taxes for the calculation of the value in use amounts to 7.75 % (2022: 8.54 %) for Croatia, and 9.37 % to 10.62 % (2022: 10.08 % to 10.17 %) for “Other.”

<sup>b</sup> Level of input parameters in the case of fair value less costs of disposal.

<sup>c</sup> This includes goodwill from the cash-generating units Montenegro and North Macedonia.

The sensitivity analyses for the need for impairment resulting from a change in the main parameters affecting measurement did not result in any different need for impairment for any cash-generating unit to which goodwill is allocated. Changes of plus or minus 50 basis points in the discount rate and in the sustainable growth rate, and of 5 percentage points in net cash flows were each analyzed separately.

Deutsche Telekom had commitments for the acquisition of intangible assets in the amount of EUR 8.2 billion (December 31, 2022: EUR 5.4 billion) as of the reporting date. The majority of this related to commitments entered into by T-Mobile US.

On August 8, 2022, T-Mobile US entered into agreements with Channel 51 License Co LLC and LB License Co, LLC (Sellers) for the acquisition of spectrum licenses in the 600 MHz band for an aggregate purchase price of USD 3.5 billion (EUR 3.2 billion). The licenses are to be acquired without any associated network assets. T-Mobile US currently utilizes these licenses under an existing arrangement with the Sellers covering fixed-term spectrum leases. On March 30, 2023, the contractual parties further agreed that the transaction be divided into two separate tranches. The transfer of the licenses in accordance with the agreements is subject to regulatory approvals and certain other customary closing conditions. The Federal Communications Commission (FCC) approved the first tranche of the license transfer on December 29, 2023. T-Mobile US expects the first tranche to be concluded in the second quarter of 2024, and the second tranche in late 2024/early 2025.

On September 12, 2023, T-Mobile US agreed with U.S. cable network operator Comcast to acquire spectrum in the 600 MHz band in exchange for total cash consideration of between USD 1.2 billion and USD 3.3 billion (EUR 1.1 billion and EUR 3.0 billion). The final purchase price will be determined at the time the parties make the required transfer filings with the FCC once it is decided which spectrum Comcast intends to sell. The transaction is expected to close in the first half of 2028, pending approval from the FCC. At the same time, T-Mobile US and Comcast have agreed exclusive leasing arrangements. The leasing rights for T-Mobile US will apply for at least two years, even if Comcast elects to remove some of its licenses from the purchase agreement.

For further information, please refer to Note 42 "Other financial obligations."

The following transaction will have an impact on the presentation of Deutsche Telekom's results of operations and financial position in the future:

On July 1, 2020, T-Mobile US and DISH Network Corporation (DISH) reached an agreement on the sale of spectrum licenses, under which DISH agreed to purchase certain 800 MHz spectrum licenses from T-Mobile US for USD 3.6 billion (EUR 3.3 billion). The transaction is subject to approval by the Federal Communications Commission (FCC). On October 15, 2023, T-Mobile US and DISH modified the agreement to include, among other changes, a non-refundable extension fee of USD 0.1 billion (EUR 0.1 billion) which DISH paid to T-Mobile US on October 25, 2023, as well as the requirement that the purchase of the spectrum licenses must be finalized by April 1, 2024. The extension fee is fully creditable against the purchase price provided DISH exercises its option to purchase the spectrum by this date. If DISH does not purchase the spectrum licenses, T-Mobile US is obligated to put the licenses up for sale at auction. Should bidding not reach the defined minimum purchase price of USD 3.6 billion, T-Mobile US would be released from its obligation to sell the licenses.

## 7 Property, plant and equipment

millions of €

	Land and equivalent rights, and buildings including buildings on land owned by third parties	Technical equipment and machinery	Other equipment, operating and office equipment	Advance payments and construction in progress	Total
<b>Cost</b>					
<b>At December 31, 2021</b>	<b>18,197</b>	<b>150,360</b>	<b>10,956</b>	<b>5,322</b>	<b>184,835</b>
Currency translation	371	2,552	187	155	3,265
Changes in the composition of the Group	0	(1)	(4)	(4)	(9)
Additions	887	3,042	387	13,899	18,215
Disposals	(460)	(23,332)	(819)	(188)	(24,800)
Change from non-current assets and disposal groups held for sale	(1,435)	(1,709)	(2,905)	(175)	(6,223)
Reclassifications	894	11,412	878	(12,066)	1,118
<b>At December 31, 2022</b>	<b>18,454</b>	<b>142,324</b>	<b>8,680</b>	<b>6,943</b>	<b>176,401</b>
Currency translation	(241)	(1,583)	(108)	(73)	(2,005)
Changes in the composition of the Group	0	61	(2)	0	59
Additions	44	3,074	353	8,702	12,173
Disposals	(299)	(9,157)	(689)	(70)	(10,215)
Change from non-current assets and disposal groups held for sale	(133)	(58)	(18)	1	(208)
Reclassifications	867	8,895	457	(9,218)	1,000
<b>At December 31, 2023</b>	<b>18,691</b>	<b>143,556</b>	<b>8,674</b>	<b>6,284</b>	<b>177,206</b>

millions of €					
	Land and equivalent rights, and buildings including buildings on land owned by third parties	Technical equipment and machinery	Other equipment, operating and office equipment	Advance payments and construction in progress	Total
<b>Accumulated depreciation and impairment losses</b>					
<b>At December 31, 2021</b>	<b>(10,903)</b>	<b>(104,796)</b>	<b>(7,351)</b>	<b>(15)</b>	<b>(123,065)</b>
Currency translation	(159)	(1,490)	(102)	0	(1,751)
Changes in the composition of the Group	0	2	5	0	8
Additions (depreciation)	(804)	(11,153)	(1,067)	0	(13,023)
Additions (impairment)	(115)	(496)	(50)	(7)	(668)
Disposals	343	22,714	659	2	23,717
Change from non-current assets and disposal groups held for sale	1,026	1,604	2,046	2	4,677
Reclassifications	4	(558)	(14)	0	(568)
Reversal of impairment losses	1	0	0	0	2
<b>At December 31, 2022</b>	<b>(10,607)</b>	<b>(94,172)</b>	<b>(5,874)</b>	<b>(19)</b>	<b>(110,672)</b>
Currency translation	104	851	65	0	1,020
Changes in the composition of the Group	0	(62)	2	0	(60)
Additions (depreciation)	(752)	(10,089)	(1,003)	0	(11,844)
Additions (impairment)	0	(82)	(9)	(20)	(110)
Disposals	290	8,944	666	1	9,901
Change from non-current assets and disposal groups held for sale	39	82	6	9	136
Reclassifications	(61)	(500)	11	0	(549)
Reversal of impairment losses	3	11	0	0	14
<b>At December 31, 2023</b>	<b>(10,983)</b>	<b>(95,017)</b>	<b>(6,135)</b>	<b>(29)</b>	<b>(112,164)</b>
<b>Net carrying amounts</b>					
At December 31, 2022	7,847	48,152	2,806	6,925	65,729
<b>At December 31, 2023</b>	<b>7,708</b>	<b>48,539</b>	<b>2,539</b>	<b>6,255</b>	<b>65,042</b>

The carrying amount of property, plant and equipment decreased by EUR 0.7 billion compared to December 31, 2022 to EUR 65.0 billion. Depreciation and impairment losses of EUR 12.0 billion reduced the carrying amount. This includes impairment losses of EUR 0.1 billion. Exchange rate effects, primarily from the translation of U.S. dollars into euros, also decreased the carrying amount by EUR 1.0 billion. Disposals of EUR 0.3 billion, as well as the reclassification of assets worth EUR 0.1 billion to non-current assets and disposal groups held for sale also reduced the carrying amount. By contrast, additions, primarily for the upgrade and build-out of the network (broadband, fiber-optic, and mobile infrastructure build-out) increased the carrying amount by EUR 12.2 billion. Reclassifications of lease assets – primarily in the United States operating segment for network technology – to property, plant and equipment upon expiry of the contractual lease term increased the carrying amount by EUR 0.5 billion.

For further information on depreciation, amortization and impairment losses, please refer to Notes 6 “Intangible assets” and 27 “Depreciation, amortization and impairment losses.”

Deutsche Telekom had commitments for the acquisition of property, plant and equipment in the amount of EUR 5.3 billion as of the reporting date (December 31, 2022: EUR 6.8 billion). These commitments mainly relate to the Germany, United States, and Europe operating segments. Restoration obligations of EUR 0.4 billion were recognized as of December 31, 2023 (December 31, 2022: EUR 0.5 billion), mainly attributable to restoration obligations of T-Mobile US.

For further information, please refer to Note 42 “Other financial obligations.”

## 8 Right-of-use assets – lessee relationships

millions of €				
	Land and equivalent rights, and buildings including buildings on land owned by third parties	Technical equipment and machinery	Other equipment, operating and office equipment	Total
<b>Carrying amounts of right-of-use assets by class of underlying asset</b>				
<b>At December 31, 2021</b>	<b>6,168</b>	<b>24,550</b>	<b>60</b>	<b>30,777</b>
Currency translation	104	1,907	0	2,011
Changes in the composition of the Group	(2)	0	0	(2)
Additions	1,016	9,463	34	10,513
Disposals	(126)	(147)	(2)	(275)
Depreciation	(1,302)	(5,564)	(30)	(6,896)
Impairment losses	(18)	(289)	0	(308)
Reclassifications	138	(723)	0	(585)
Reversal of impairment losses	0	0	0	0
Change from non-current assets and disposal groups held for sale	(1,530)	20	0	(1,510)
<b>At December 31, 2022</b>	<b>4,449</b>	<b>29,217</b>	<b>61</b>	<b>33,727</b>
Currency translation	(42)	(924)	1	(964)
Changes in the composition of the Group	(1)	0	0	(1)
Additions	987	5,128	35	6,150
Disposals	(55)	(88)	(2)	(146)
Depreciation	(1,192)	(4,213)	(26)	(5,431)
Impairment losses	(1)	(9)	0	(10)
Reclassifications	(1)	(491)	(1)	(492)
Reversal of impairment losses	0	0	0	0
Change from non-current assets and disposal groups held for sale	(4)	3	(5)	(6)
<b>At December 31, 2023</b>	<b>4,141</b>	<b>28,621</b>	<b>64</b>	<b>32,826</b>

The carrying amount of the right-of-use assets decreased by EUR 0.9 billion compared to December 31, 2022 to EUR 32.8 billion. Depreciation, amortization and impairment losses of EUR 5.4 billion reduced the carrying amount. This included a EUR 0.2 billion increase in depreciation due to a reduction in the useful life of leased network technology for cell sites in the United States operating segment following the business combination of T-Mobile US and Sprint. Exchange rate effects, primarily from the translation of U.S. dollars into euros, also decreased the carrying amount by EUR 1.0 billion. Reclassifications of lease assets – primarily in the United States operating segment for network technology – to property, plant and equipment upon expiry of the contractual lease term decreased the carrying amount by EUR 0.5 billion. Disposals reduced the carrying amount by EUR 0.1 billion. Additions of EUR 6.1 billion had an offsetting effect, resulting in part from the sale and leaseback of passive network infrastructure in Germany and Austria in connection with the sale of the GD tower companies. In this context, retained right-of-use assets of EUR 2.0 billion were recognized in the consolidated statement of financial position.

For further information on the sale of the GD tower companies, please refer to the section “Changes in the composition of the Group and other transactions” under “Summary of accounting policies.”

For further information on depreciation, amortization and impairment losses, please refer to Notes 6 “Intangible assets” and 27 “Depreciation, amortization and impairment losses.”

For information on corresponding lease liabilities, please refer to Note 13 “Financial liabilities and lease liabilities.”

The right-of-use assets recognized in the statement of financial position relate in particular to leases for cell sites, network infrastructure, and real estate in the United States operating segment.

Leases can include extension and termination options that can have a substantial impact on the period of depreciation of the right-of-use assets if it is deemed to be reasonably certain that extension options will be exercised or termination options will not be exercised.

For further information, please refer to the section “Accounting policies” under “Summary of accounting policies.”

The right-of-use assets for land and equivalent rights, and buildings including buildings on land owned by third parties include right-of-use assets related to data centers with a carrying amount of EUR 128 million (December 31, 2022: EUR 117 million). The corresponding additions amounted to EUR 45 million (2022: EUR 7 million) and the depreciation to EUR 39 million (2022: EUR 38 million). In addition, the right-of-use assets for technical equipment and machinery also include right-of-use assets related to data centers with a carrying amount of EUR 19 million (December 31, 2022: EUR 18 million). The corresponding additions amounted to EUR 5 million (2022: EUR 0 million) and the depreciation also to EUR 5 million (2022: EUR 5 million).

Once the GD tower companies had been sold in the reporting year, Deutsche Telekom leased back the majority of the sold passive network infrastructure in Germany and Austria under a sale and leaseback arrangement. The portion of the gain attributable to the retained use of the sold assets, amounting to EUR 3.0 billion, will have an impact in later periods by way of lower depreciation of the capitalized right-of-use assets. No significant gains or losses from sale and leaseback transactions were recorded in the prior year.

For further information on the sale of the GD tower companies, please refer to the section “Changes in the composition of the Group and other transactions” under “Summary of accounting policies.”

## 9 Capitalized contract costs

millions of €		Dec. 31, 2023	Dec. 31, 2022
Costs of obtaining a contract		3,497	3,194
Costs to fulfill a contract		15	11
		<b>3,511</b>	<b>3,205</b>

As of December 31, 2023, the carrying amount of capitalized contract costs stood at EUR 3.5 billion and was thus EUR 0.3 billion higher than at the end of the prior year. This increase was attributable in particular to a higher level of capitalized costs of obtaining a contract in postpaid customer business in the Germany and United States operating segments. The costs of obtaining a contract mainly include sales commissions paid to employees and third-party retailers in the direct and indirect sales channel. Overall, capitalized contract costs of EUR 2,742 million (2022: EUR 2,343 million) were written down on a straight-line basis over the estimated customer retention period. Exchange rate effects, primarily from the translation from U.S. dollars into euros, reduced the carrying amount.

## 10 Investments accounted for using the equity method

Deutsche Telekom publishes the following information on significant investments included in the consolidated financial statements using the equity method:

Name and registered office	Deutsche Telekom share		Percentage of voting rights		Assigned to segment	Fair value of the investment, if a listed market price is available	
	Dec. 31, 2023 %	Dec. 31, 2022 %	Dec. 31, 2023 %	Dec. 31, 2022 %		Dec. 31, 2023 millions of €	Dec. 31, 2022 millions of €
JP Hrvatske telekomunikacije d.d. Mostar, Mostar, Bosnia-Herzegovina <sup>a</sup>	39.10	39.10	39.10	39.10	Europe	25	19
GlasfaserPlus Holding GmbH & Co. KG, Cologne, Germany <sup>b</sup>	50.00	50.00	50.00	50.00	Germany	n.a.	n.a.
T-Mobile USA Tower LLC, Wilmington, United States <sup>c</sup>	100.00	100.00	100.00	100.00	United States	n.a.	n.a.
T-Mobile West Tower LLC, Wilmington, United States <sup>c</sup>	100.00	100.00	100.00	100.00	United States	n.a.	n.a.
Digital Infrastructure Vehicle II SCSp SICAV-RAIF, Senningerberg, Luxembourg	38.01	41.25	38.01	41.25	Group Development	n.a.	n.a.
GD Towers Holding GmbH, Münster, Germany <sup>d</sup>	49.00	n.a.	49.00	n.a.	Group Development	n.a.	n.a.

<sup>a</sup> Indirect shareholding via Hrvatski Telekom d.d., Croatia (Deutsche Telekom AG's share: 53.02 %).

<sup>b</sup> Indirect shareholding via Telekom Deutschland GmbH (Deutsche Telekom AG's share: 100.00 %).

<sup>c</sup> Indirect shareholding via T-Mobile US, Inc., United States (Deutsche Telekom AG's share: 48.14 %).

<sup>d</sup> Indirect shareholding via Deutsche Telekom Towers Holding GmbH (Deutsche Telekom AG's share: 100.00%). The shareholding has been included in Deutsche Telekom's consolidated financial statements using the equity method since February 1, 2023.

### Description of the nature of the activities of the joint arrangement or associate

JP Hrvatske telekomunikacije d.d. (HT Mostar d.d.), a joint venture between Hrvatski Telekom d.d. and the state of Bosnia-Herzegovina, provides mobile and fixed-network telecommunications services in Bosnia-Herzegovina.

GlasfaserPlus Holding GmbH & Co. KG with its subsidiary GlasfaserPlus GmbH (GlasfaserPlus entities), a joint venture between Deutsche Telekom and the IFM Global Infrastructure Fund, is engaged in the planning, construction, and operation of fiber-optic network infrastructure to the building or user (FTTH), and offering bitstream access products to wholesale customers to serve end customers on the mass market.

T-Mobile USA Tower LLC and T-Mobile West Tower LLC are structured entities founded by T-Mobile US in each of which it holds a 100 % stake for the purpose of contributing cell sites in accordance with a framework agreement signed in 2012 between T-Mobile US and Crown Castle International Corp., Houston, United States, concerning the leasing and use of the cell sites. The sole right to continue to use and lease out these sites was transferred to Crown Castle. T-Mobile US continues to operate its mobile equipment on these cell towers and, to this end, leases back the required capacity from Crown Castle. Previously unused infrastructure is thus available for Crown Castle to lease to third parties. In return, the owners of the land on which the cell towers are built will no longer receive lease payments from T-Mobile US for those cell towers that were contributed to the two associates and those companies that were disposed of. Both entities were deconsolidated as of the date of the closing of the transaction in 2012, because Crown Castle independently operates the cell towers, generates revenues from leasing out the sites for an average of 27 years, and determines the finance and business activities of both entities that are relevant for consolidation purposes. It is expected that the leasing of tower space will allow Crown Castle to generate sufficient ongoing profits and cash flows to be able to meet its contractual obligations. Thus Deutsche Telekom has only a significant influence and includes these companies in the consolidated financial statements as associates. Under certain conditions, T-Mobile US will continue to be held liable for any default in the lease payment by Crown Castle to the owners of the underlying land of the cell sites. The agreement includes an extremely low maximum guarantee amount for Deutsche Telekom, since in the unlikely event that this case occurs, T-Mobile US could take over the further use of the relevant cell sites or alternatively terminate the contracts with the owners of the cell site land at short notice. At closing, T-Mobile US established an immaterial cash reserve in the entities sufficient to fund the payment of ongoing administrative expenses not payable by Crown Castle. Aside from the guarantee and the payment of administrative expenses, there is no other funding obligation by T-Mobile US.

Digital Infrastructure Vehicle II SCSp SICAV-RAIF (DIV II) is an investment company with a portfolio of shareholdings in companies engaged in the development and operation of digital infrastructure projects, such as mobile infrastructure, fiber-optic networks, data centers, and related fields, with a focus on Europe.

GD Towers Holding GmbH with its shareholdings in the cell tower business companies in Germany and Austria (GD tower companies), operates cell sites in Germany and Austria as a joint venture of Deutsche Telekom with DigitalBridge and Brookfield.

For further information on the transaction with the GD tower companies, please refer to the section [“Changes in the composition of the Group and other transactions”](#) under [“Summary of accounting policies.”](#)

The following tables provide summarized financial information on the main companies included in the consolidated financial statements and accounted for using the equity method. The data is not based on the stakes attributable to Deutsche Telekom AG, but represents the shareholdings on an assumed 100 % basis.

**Summarized financial information on the main entities accounted for using the equity method**

millions of €

	HT Mostar d.d.		GlasfaserPlus <sup>a</sup>	
	Dec. 31, 2023/ 2023	Dec. 31, 2022/ 2022	Dec. 31, 2023/ 2023	Dec. 31, 2022/ 2022
Current assets	67	69	88	82
Of which: cash and cash equivalents	15	24	16	61
Non-current assets	144	143	755	299
Current liabilities	30	31	316	199
Of which: financial liabilities	3	3	101	70
Non-current liabilities	11	11	470	0
Of which: financial liabilities	11	10	470	0
Net revenue	104	41	5	0
Profit (loss)	0	0	(126)	4
Other comprehensive income	0	0	0	0
Total comprehensive income	0	0	(126)	4
Depreciation, amortization and impairment losses	(26)	(10)	(15)	0
Interest income	0	0	0	0
Interest expense	(1)	0	(29)	(10)
Income taxes	0	0	0	(4)
Dividends paid to Deutsche Telekom	0	0	0	0

<sup>a</sup> Consolidated subgroup.

millions of €

	GD tower companies <sup>a, b</sup>	
	Dec. 31, 2023/ 2023	Dec. 31, 2022/ 2022
Current assets	138	n.a.
Of which: cash and cash equivalents	64	n.a.
Non-current assets	12,048	n.a.
Current liabilities	1,068	n.a.
Of which: financial liabilities	577	n.a.
Non-current liabilities	9,912	n.a.
Of which: financial liabilities	4,190	n.a.
Net revenue	1,134	n.a.
Profit (loss)	(135)	n.a.
Other comprehensive income	(46)	n.a.
Total comprehensive income	(181)	n.a.
Depreciation, amortization and impairment losses	(625)	n.a.
Interest income	2	n.a.
Interest expense	(256)	n.a.
Income taxes	44	n.a.
Dividends paid to Deutsche Telekom	0	n.a.

<sup>a</sup> Consolidated subgroup.<sup>b</sup> As the subgroup financial statements of the GD tower companies as of December 31, 2023 were not yet available to Deutsche Telekom at the date of preparation, the company's preliminary management reporting was used as a basis for the summarized financial information.

millions of €

	T-Mobile USA Tower LLC		T-Mobile West Tower LLC	
	Dec. 31, 2023/ 2023	Dec. 31, 2022/ 2022	Dec. 31, 2023/ 2023	Dec. 31, 2022/ 2022
Current assets	0	0	0	0
Non-current assets	166	158	218	211
Current liabilities	0	0	0	0
Non-current liabilities	0	0	0	0
Net revenue	0	0	0	0
Profit (loss)	0	0	0	0
Other comprehensive income	0	0	0	0
Total comprehensive income	0	0	0	0
Dividends paid to Deutsche Telekom	0	0	0	0



millions of €	DIV II <sup>a</sup>	
	Dec. 31, 2023/ 2023	Dec. 31, 2022/ 2022
Current assets	3	3
Of which: cash and cash equivalents	3	3
Non-current assets	731	577
Current liabilities	19	2
Of which: financial liabilities	0	0
Non-current liabilities	0	0
Of which: financial liabilities	0	0
Net revenue	0	0
Profit (loss)	89	18
Other comprehensive income	0	0
Total comprehensive income	89	18
Depreciation, amortization and impairment losses	0	0
Dividends paid to Deutsche Telekom	0	0

<sup>a</sup> As financial data of DIV II as of December 31, 2023 was not yet available in its entirety to Deutsche Telekom at the date of preparation, the interim financial statements of DIV II as of September 30, 2023 were used as a basis for the summarized financial information and for the reconciliation statement to the carrying amount reported in Deutsche Telekom's consolidated statement of financial position. The comparatives as of December 31, 2022 were similarly based on the company's interim financial statements as of September 30, 2022.

#### Reconciliation to the carrying amount included in the consolidated statement of financial position

millions of €	HT Mostar d.d.		GlasfaserPlus <sup>a</sup>	
	2023	2022	2023	2022
<b>Net assets as of January 1<sup>b</sup></b>	<b>170</b>	<b>171</b>	<b>182</b>	<b>n.a.</b>
Net assets as of date of inclusion in the consolidated financial statements using the equity method <sup>b</sup>	n.a.	n.a.	n.a.	182
Profit (loss)	0	0	(126)	0
Other comprehensive income	0	0	0	0
Exchange rate effects	0	(1)	0	0
<b>Net assets as of December 31</b>	<b>170</b>	<b>170</b>	<b>56</b>	<b>182</b>
<b>Share of net assets attributable to Deutsche Telekom as of December 31</b>	<b>66</b>	<b>66</b>	<b>28</b>	<b>91</b>
Goodwill – equity method	0	0	886	886
Impairment	(19)	(19)	(584)	(517)
Other reconciliation effects	(15)	(15)	3	(4)
<b>Carrying amount as of December 31</b>	<b>32</b>	<b>32</b>	<b>333</b>	<b>456</b>

<sup>a</sup> Consolidated subgroup.

<sup>b</sup> The shareholding in GlasfaserPlus has been included in the consolidated financial statements using the equity method since February 28, 2022.

millions of €	GD tower companies <sup>a, b</sup>	
	2023	2022
<b>Net assets as of January 1<sup>c</sup></b>	<b>n.a.</b>	<b>n.a.</b>
Net assets as of date of inclusion in the consolidated financial statements using the equity method <sup>b</sup>	1,387	n.a.
Profit (loss)	(135)	n.a.
Other comprehensive income	(46)	n.a.
<b>Net assets as of December 31</b>	<b>1,206</b>	<b>n.a.</b>
<b>Share of net assets attributable to Deutsche Telekom as of December 31</b>	<b>591</b>	<b>n.a.</b>
Goodwill – equity method	5,421	n.a.
Impairment	(2,626)	n.a.
Other reconciliation effects	0	n.a.
<b>Carrying amount as of December 31</b>	<b>3,386</b>	<b>n.a.</b>

<sup>a</sup> Consolidated subgroup.

<sup>b</sup> As the subgroup financial statements of the GD tower companies as of December 31, 2023 were not yet available to Deutsche Telekom at the date of preparation, the preliminary management reporting was used as a basis for the summarized financial information and for the reconciliation statement to the carrying amount reported in Deutsche Telekom's consolidated statement of financial position.

<sup>c</sup> The shareholding in the GD tower companies has been included in the consolidated financial statements using the equity method since February 1, 2023.

millions of €	T-Mobile USA Tower LLC		T-Mobile West Tower LLC	
	2023	2022	2023	2022
<b>Net assets as of January 1</b>	<b>157</b>	<b>138</b>	<b>211</b>	<b>185</b>
Profit (loss)	14	11	15	15
Other comprehensive income	0	0	0	0
Dividends paid	0	0	0	0
Exchange rate effects	(5)	8	(8)	11
<b>Net assets as of December 31</b>	<b>166</b>	<b>157</b>	<b>218</b>	<b>211</b>
<b>Share of net assets attributable to Deutsche Telekom as of December 31</b>	<b>166</b>	<b>157</b>	<b>218</b>	<b>211</b>
Adjustment of carrying amount	0	0	0	0
Other reconciliation effects	0	0	0	0
<b>Carrying amount as of December 31</b>	<b>166</b>	<b>157</b>	<b>218</b>	<b>211</b>

millions of €	DIV II <sup>a</sup>	
	2023	2022
<b>Net assets as of January 1<sup>b</sup></b>	<b>578</b>	<b>n.a.</b>
Net assets as of date of inclusion in the consolidated financial statements using the equity method <sup>b</sup>	n.a.	578
Profit (loss) <sup>a</sup>	136	0
Other comprehensive income	0	0
Dividends paid	0	0
<b>Net assets as of December 31</b>	<b>714</b>	<b>578</b>
<b>Share of net assets attributable to Deutsche Telekom as of December 31</b>	<b>271</b>	<b>238</b>
Other reconciliation effects	51	43
<b>Carrying amount as of December 31</b>	<b>322</b>	<b>281</b>

<sup>a</sup> As financial data of DIV II as of December 31, 2023 was not yet available in its entirety to Deutsche Telekom at the date of preparation, the interim financial statements of DIV II as of September 30, 2023 were used as a basis for the summarized financial information and for the reconciliation statement to the carrying amount reported in Deutsche Telekom's consolidated statement of financial position. In addition, profit/loss after income taxes also includes profit/loss after income taxes of the prior-year fourth quarter on a pro rata basis. Similarly, the comparatives as of December 31, 2022 are summarized financial information determined on the basis of the company's annual financial statements as of September 30, 2022 and the reconciliation statement.

<sup>b</sup> The shareholding has been included in Deutsche Telekom's consolidated financial statements using the equity method since August 2, 2022.

In the 2023 and 2022 financial years, the consolidated financial statements did not include any unrecognized losses in connection with investments accounted for using the equity method.

### Summarized aggregate financial information on non-significant entities accounted for using the equity method

The figures relate to the interests attributable to Deutsche Telekom.

millions of €	Joint ventures		Associates	
	Dec. 31, 2023/ 2023	Dec. 31, 2022/ 2022	Dec. 31, 2023/ 2023	Dec. 31, 2022/ 2022
Total carrying amounts	41	60	107	121
Total share in profit (loss)	20	(1)	49	(13)
Other comprehensive income	0	0	0	0
<b>Total comprehensive income</b>	<b>20</b>	<b>(1)</b>	<b>49</b>	<b>(13)</b>

## 11 Other financial assets

millions of €	Dec. 31, 2023		Dec. 31, 2022	
	Total	Of which: current	Total	Of which: current
Originated loans and receivables	6,538	4,741	6,337	4,617
Of which: collateral paid	1,708	1,643	1,484	1,413
Of which: other receivables – publicly funded projects	1,863	763	2,019	723
Debt instruments – measured at fair value through profit or loss	652	6	646	5
Derivative financial assets	1,780	602	2,273	153
Of which: derivatives with a hedging relationship	658	106	1,034	64
Of which: derivatives without a hedging relationship	1,122	496	1,239	90
Equity instruments – measured at fair value through profit or loss	4	0	3	0
Equity instruments – measured at fair value through other comprehensive income	422	0	446	0
Lease assets	197	105	205	90
	<b>9,593</b>	<b>5,453</b>	<b>9,910</b>	<b>4,865</b>

The carrying amount of current and non-current other financial assets decreased by EUR 0.3 billion compared to December 31, 2022 to EUR 9.6 billion.

The net total of originated loans and receivables increased by EUR 0.2 billion to EUR 6.5 billion. The carrying amount was increased by an existing shareholder loan to the GD tower companies, which must be recognized in the consolidated statement of financial position as a result of the deconsolidation of the companies. As of December 31, 2023, this loan had a carrying amount of EUR 0.3 billion, while the carrying amount of cash collateral deposited increased by EUR 0.2 billion. At the reporting date, cash and cash equivalents of EUR 64 million when translated into euros (December 31, 2022: EUR 63 million) were pledged as collateral for liabilities with the right of creditors to priority repayment in the event of default. Collateral agreements as surety for potential credit risks arising from derivative transactions in connection with forward-payer swaps gave rise to receivables of EUR 1,642 million as of the reporting date (December 31, 2022: EUR 1,411 million). In connection with receivables from grants still to be received from funding projects for the broadband build-out in Germany, the carrying amount of other receivables decreased by EUR 0.2 billion to EUR 1.9 billion.

The carrying amount of debt instruments measured at fair value through profit or loss remained stable at EUR 0.7 billion. A contingent consideration receivable was recorded in 2022 in connection with the sale of the 50 % stake in GlasfaserPlus. As the remainder of the purchase price, this receivable will fall due in stages upon achieving certain build-out milestones and, as of December 31, 2023, amounted to EUR 0.4 billion.

The carrying amount of derivatives with a hedging relationship decreased by EUR 0.4 billion to EUR 0.7 billion, mainly as a result of falling fair values of interest rate swaps and cross-currency swaps in cash flow hedges due to lower medium- and long-term interest rate expectations.

The carrying amount of derivatives without a hedging relationship declined by EUR 0.1 billion to EUR 1.1 billion. This was due on the one hand to a EUR 0.2 billion decrease in the carrying amount of interest and currency derivatives. On the other hand, the carrying amounts of termination rights embedded in bonds issued by T-Mobile US increased by EUR 0.1 billion.

For further information on allowances, stock options, and the credit ratings of originated loans and receivables, please refer to Note 43 “Financial instruments and risk management.”

## 12 Other assets

The carrying amount of current and non-current other assets increased by EUR 0.3 billion to EUR 3.6 billion. As of December 31, 2023, the carrying amount included various advance payments, totaling EUR 2.9 billion (December 31, 2022: EUR 2.7 billion), mainly including advance payments in connection with agreements on services for certain mobile communications equipment that do not fall under the scope of IFRS 16. By contrast, exchange rate effects, in particular from the translation of U.S. dollars into euros, reduced the carrying amount by EUR 0.1 billion.

### 13 Financial liabilities and lease liabilities

The following table shows the composition and maturity structure of **financial liabilities** as of December 31, 2023:

	Dec. 31, 2023				Dec. 31, 2022			
	Total	Due within 1 year	Due > 1 year ≤ 5 years	Due > 5 years	Total	Due within 1 year	Due > 1 year ≤ 5 years	Due > 5 years
Bonds and other securitized liabilities	87,773	4,463	29,959	53,352	93,802	9,377	26,709	57,715
Liabilities to banks	3,560	1,386	1,123	1,051	4,122	1,442	1,627	1,053
	<b>91,333</b>	<b>5,849</b>	<b>31,082</b>	<b>54,403</b>	<b>97,924</b>	<b>10,819</b>	<b>28,336</b>	<b>58,768</b>
Liabilities with the right of creditors to priority repayment in the event of default	2,067	808	1,260	0	2,925	750	2,006	168
Other interest-bearing liabilities	6,628	1,085	2,639	2,904	7,526	1,130	3,010	3,387
Liabilities from deferred interest	1,009	1,009	0	0	999	999	0	0
Other non-interest-bearing liabilities	921	788	101	31	769	583	172	14
Derivative financial liabilities	2,564	80	598	1,886	2,889	108	797	1,984
	<b>13,189</b>	<b>3,771</b>	<b>4,597</b>	<b>4,821</b>	<b>15,107</b>	<b>3,570</b>	<b>5,985</b>	<b>5,552</b>
<b>Financial liabilities</b>	<b>104,522</b>	<b>9,620</b>	<b>35,679</b>	<b>59,224</b>	<b>113,030</b>	<b>14,389</b>	<b>34,321</b>	<b>64,320</b>
<b>Lease liabilities</b>	<b>40,792</b>	<b>5,649</b>	<b>16,486</b>	<b>18,658</b>	<b>38,792</b>	<b>5,126</b>	<b>13,984</b>	<b>19,682</b>

The carrying amount of current and non-current financial liabilities decreased by EUR 8.5 billion compared with year-end 2022 to EUR 104.5 billion, primarily due to the factors described below. Exchange rate effects, in particular from the translation of U.S. dollars into euros, reduced the carrying amount by EUR 2.7 billion.

The carrying amount of bonds and other securitized liabilities decreased by EUR 6.0 billion to EUR 87.8 billion. Early repayments of bonds with terms ending between 2023 and 2028, made in the reporting year, including EUR bonds of EUR 2.4 billion, GBP bonds of GBP 0.2 billion (EUR 0.3 billion), and USD bonds of USD 1.4 billion (EUR 1.3 billion), reduced the carrying amount. The carrying amount was further reduced by scheduled repayments of bonds, including EUR bonds of EUR 1.3 billion, USD bonds of USD 4.3 billion (EUR 4.0 billion), GBP bonds of GBP 0.2 billion (EUR 0.2 billion), and NOK bonds of NOK 0.7 billion (EUR 0.1 billion). Net repayments of commercial paper also decreased the carrying amount by EUR 2.3 billion. The carrying amount was increased by senior notes issued in the reporting period by T-Mobile US with a total volume of USD 8.5 billion (EUR 7.9 billion) with terms ending between 2028 and 2054 and bearing interest of between 4.80 % and 6.00 %. In addition, the carrying amount increased by EUR 0.6 billion in connection with measurement effects from derivatives with a hedging relationship, the offsetting entry for which is posted under bonds and other securitized liabilities. Exchange rate effects decreased the carrying amount of bonds and other securitized liabilities by EUR 2.5 billion.

The carrying amount of liabilities to banks decreased by EUR 0.6 billion compared with December 31, 2022 to EUR 3.6 billion, mainly due to scheduled repayments of EUR 0.4 billion and by the net increase of EUR 0.2 billion in the balance of short-term borrowings.

The liabilities with the right of creditors to priority repayment in the event of default of EUR 2.1 billion (December 31, 2022: EUR 2.9 billion) relate primarily to bonds issued by Sprint. Collateral was provided for these bonds, hence they constitute a separate class of financial instruments. Repayments in the reporting period in the amount of EUR 0.7 billion when translated into euros reduced the carrying amount. Exchange rate effects also decreased the carrying amount by EUR 0.1 billion. At the reporting date, cash and cash equivalents with a carrying amount of EUR 64 million (December 31, 2022: EUR 63 million) when translated into euros were pledged as collateral for these bonds.

The carrying amount of other interest-bearing liabilities decreased by EUR 0.9 billion compared with December 31, 2022 to EUR 6.6 billion. Repayments by T-Mobile US reduced the carrying amount by EUR 0.5 billion, of which EUR 0.2 billion, when translated into euros, related to payments made in connection with the existing agreement on IP transit services, concluded with Cogent as part of the sale of the Wireline Business. In connection with cash collateral received for derivative financial instruments – primarily forward-payer swaps – the carrying amount of other interest-bearing liabilities decreased by EUR 0.1 billion, with exchange rate effects reducing it by a further EUR 0.1 billion.

For further information on cash collateral, please refer to Note 43 [“Financial instruments and risk management.”](#)

For further information on the sale of the Wireline Business, please refer to the section [“Changes in the composition of the Group and other transactions”](#) under [“Summary of accounting policies.”](#)

The carrying amount of derivative financial liabilities decreased by EUR 0.3 billion to EUR 2.6 billion. It was reduced by measurement effects from interest rate swaps in fair value hedges of EUR 0.6 billion, due to lower medium- and long-term interest rate expectations. By contrast, gains on interest rate swaps in cash flow hedges increased the carrying amount by EUR 0.3 billion.

For further information on derivative financial liabilities, please refer to Note 43 [“Financial instruments and risk management.”](#)

Deutsche Telekom has established ongoing liquidity management. To ensure the Group's and Deutsche Telekom AG's solvency and financial flexibility at all times, Deutsche Telekom maintains a liquidity reserve in the form of credit lines and cash. This liquidity reserve is to cover the capital market maturities of the next 24 months at any time. Since the business combination between T-Mobile US and Sprint, T-Mobile US has pursued its own separate financing and liquidity strategy.

At December 31, 2023, Deutsche Telekom (excluding T-Mobile US) had standardized bilateral credit agreements with 20 banks for a total of EUR 12.0 billion. None of these lines of credit had been utilized as of December 31, 2023. Pursuant to the credit agreements, the terms and conditions depend on Deutsche Telekom's rating. The bilateral credit agreements have an original maturity of 36 months and can, after each period of 12 months, be extended by a further 12 months to renew the maturity of 36 months. From today's perspective, access to the international debt capital markets is not jeopardized.

Furthermore, bilateral credit lines with an aggregate total volume of USD 7.5 billion (EUR 6.8 billion) plus a cash balance of USD 5.2 billion (EUR 4.7 billion) were available to T-Mobile US as of December 31, 2023. None of these credit lines had been utilized as of December 31, 2023.

The carrying amount of current and non-current **lease liabilities** increased by EUR 2.0 billion to EUR 40.8 billion compared with December 31, 2022, mainly resulting from the sale and leaseback of passive network infrastructure in Germany and Austria in connection with the sale of the GD tower companies. As a result of this transaction, lease liabilities increased by EUR 5.0 billion. By contrast, lease liabilities in the United States operating segment decreased by EUR 1.6 billion due to the decommissioning of the former Sprint's wireless network and the closure of former Sprint shops in the prior year, as well as a decline in network and build-out investments, primarily on account of higher capital efficiency resulting from the accelerated build-out of the nationwide 5G network in the prior year. Exchange rate effects, in particular from the translation of U.S. dollars into euros, reduced the carrying amount by EUR 1.1 billion.

For further information on lessee relationships, please refer to Note 8 [“Right of use assets – lessee relationships.”](#)

In the reporting year and in the previous year, there were no significant expenses for variable lease payments that were not included in the measurement of lease liabilities.

As of December 31, 2023, future payment obligations for leases that have not yet begun and which are not taken into account in the measurement of lease liabilities amounted to EUR 0.1 billion (December 31, 2022: EUR 0.2 billion).

The following tables show the contractually agreed (undiscounted) cumulative interest payments and repayments of the non-derivative financial liabilities, the lease liabilities, and the derivatives with positive and negative fair values:

millions of €

	Carrying amount Dec. 31, 2023	Cash flows in				
		2024	2025	2026–2028	2029–2033	2034 and thereafter
<b>Non-derivative financial liabilities</b>						
Bonds, other securitized liabilities, liabilities to banks, and similar liabilities	(91,333)	(8,576)	(9,498)	(34,192)	(39,813)	(38,683)
Liabilities with the right of creditors to priority repayment in the event of default	(2,067)	(921)	(519)	(813)	0	0
Other interest-bearing liabilities	(6,628)	(2,173)	(1,489)	(2,888)	(3,894)	(148)
Liabilities from deferred interest	(1,009)	(1,009)	0	0	0	0
Other non-interest-bearing liabilities	(921)	(776)	(85)	(27)	(17)	0
Lease liabilities	(40,792)	(7,393)	(6,463)	(15,007)	(20,688)	(277)
<b>Derivative financial liabilities and assets</b>						
<b>Derivative financial liabilities:</b>						
Currency derivatives without a hedging relationship	(25)	(24)	0	0	0	0
Currency derivatives in connection with cash flow hedges	(5)	(5)	0	0	0	0
Embedded derivatives without a hedging relationship	(32)	(3)	(2)	(5)	(2)	0
Other derivatives in connection with cash flow hedges	(53)	6	7	17	7	1
Other derivatives without a hedging relationship	(1)	0	0	0	0	0
Interest rate derivatives without a hedging relationship	(239)	(37)	(54)	2	7	214
Interest rate derivatives in connection with fair value hedges	(1,833)	(473)	(149)	(958)	(884)	(1,367)
Interest rate derivatives in connection with cash flow hedges	(377)	110	110	272	219	151
<b>Derivative financial assets:<sup>a</sup></b>						
Currency derivatives without a hedging relationship	44	41	0	0	0	0
Currency derivatives in connection with cash flow hedges	1	2	0	0	0	0
Currency derivatives in connection with net investment hedges	54	53	0	0	0	0
Embedded derivatives without a hedging relationship	169	26	50	106	151	39
Other derivatives without a hedging relationship	3	3	0	0	0	0
Interest rate derivatives without a hedging relationship	276	90	104	108	128	419
Interest rate derivatives in connection with fair value hedges	15	(12)	(12)	(36)	7	0
Interest rate derivatives in connection with cash flow hedges	588	206	152	157	520	491
<b>Financial guarantees and loan commitments</b>		(430)	0	0	0	0

<sup>a</sup> This does not include payments that Deutsche Telekom would have to make or would receive in the event of exercising options to buy or sell company shares. It is unclear whether, when, and to what extent such options will be exercised. This mainly relates to the stock options to buy shares in T-Mobile US received from SoftBank. If Deutsche Telekom were to exercise the maximum number of these stock options, it would have to make a payment of EUR 4,716 million (December 31, 2022: EUR 4,324 million) when translated into euros, based on the share price at the reporting date. Deutsche Telekom also holds other immaterial options to buy or sell company shares.

For information on the guarantees to Glasfaser NordWest, please refer to Note 45 "Related party disclosures."

millions of €

	Carrying amount Dec. 31, 2022	Cash flows in				2033 and thereafter
		2023	2024	2025–2027	2028–2032	
<b>Non-derivative financial liabilities</b>						
Bonds, other securitized liabilities, liabilities to banks, and similar liabilities	(97,924)	(12,634)	(8,879)	(31,204)	(46,063)	(35,962)
Liabilities with the right of creditors to priority repayment in the event of default	(2,925)	(879)	(925)	(1,256)	(87)	0
Other interest-bearing liabilities	(7,526)	(1,332)	(1,145)	(2,346)	(4,529)	(157)
Liabilities from deferred interest	(999)	(999)	0	0	0	0
Other non-interest-bearing liabilities	(769)	(598)	(117)	(28)	(26)	(1)
Lease liabilities	(38,792)	(6,541)	(5,854)	(12,473)	(22,277)	(312)
<b>Derivative financial liabilities and assets</b>						
<b>Derivative financial liabilities:</b>						
Currency derivatives without a hedging relationship	(41)	(56)	0	0	0	0
Currency derivatives in connection with cash flow hedges	(10)	(7)	0	0	0	0
Embedded derivatives without a hedging relationship	(55)	(3)	(6)	(14)	(29)	(3)
Other derivatives without a hedging relationship	(108)	(147)	52	7	(8)	(13)
Interest rate derivatives without a hedging relationship	(163)	(44)	(6)	(57)	(13)	71
Interest rate derivatives in connection with fair value hedges	(2,477)	(233)	(176)	(377)	(227)	(884)
Interest rate derivatives in connection with cash flow hedges	(34)	(24)	(24)	(72)	(130)	(217)
<b>Derivative financial assets:<sup>a</sup></b>						
Currency derivatives without a hedging relationship	50	50	0	0	0	0
Currency derivatives in connection with cash flow hedges	26	25	0	0	0	0
Embedded derivatives without a hedging relationship	200	28	22	68	139	73
Other derivatives without a hedging relationship	12	11	24	32	(13)	(35)
Interest rate derivatives without a hedging relationship	457	180	126	391	447	1,162
Interest rate derivatives in connection with fair value hedges	0	0	0	0	0	0
Interest rate derivatives in connection with cash flow hedges	1,008	181	136	187	456	(70)
<b>Financial guarantees and loan commitments</b>	<b>0</b>	<b>0</b>	<b>(430)</b>	<b>0</b>	<b>0</b>	<b>0</b>

<sup>a</sup> This does not include payments that Deutsche Telekom would have to make or would receive in the event of exercising options to buy or sell company shares. It is unclear whether, when, and to what extent such options will be exercised. This mainly relates to the stock options to buy shares in T-Mobile US received from SoftBank. If Deutsche Telekom were to exercise the maximum number of these stock options, it would have to make a payment of EUR 4,716 million (December 31, 2022: EUR 4,324 million) when translated into euros, based on the share price at the reporting date. Deutsche Telekom also holds other immaterial options to buy or sell company shares.

All instruments held at December 31, 2023 and for which payments were already contractually agreed were included. Planning data for future, new liabilities were not included. Amounts in foreign currency were each translated at the closing rate at the reporting date. The variable interest payments arising from the financial instruments were calculated using the last interest rates fixed before December 31, 2023. Financial liabilities that can be repaid at any time are always assigned to the earliest possible time period. In accordance with § 2 (4) of the German Act on the Transformation of the Deutsche Bundespost Enterprises into the Legal Structure of Stock Corporation (Stock Corporation Transformation Act – Postumwandlungsgesetz), the Federal Republic is guarantor of all Deutsche Telekom AG's liabilities that were already outstanding as at January 1, 1995. At December 31, 2023, this figure was a nominal EUR 0.1 billion (December 31, 2022: EUR 0.1 billion).

## 14 Trade and other payables

millions of €

	Dec. 31, 2023	Dec. 31, 2022
Trade payables	10,778	11,981
Other liabilities	138	54
	<b>10,916</b>	<b>12,035</b>

The carrying amount of trade and other payables decreased by EUR 1.1 billion year-on-year to EUR 10.9 billion, due in particular to lower liabilities in the United States operating segment, primarily as a result of a lower procurement volume. Exchange rate effects, in particular from the translation from U.S. dollars into euros, also decreased the carrying amount. By contrast, the Germany and Europe operating segments recorded an increase in liabilities.

Of the total of trade and other payables, EUR 10,778 million (December 31, 2022: EUR 11,981 million) is due within one year.

## 15 Provisions for pensions and other employee benefits

### Defined benefit plans

The Group's pension obligations are based on direct and indirect pension commitments mainly in Germany, the United States, and Switzerland. Deutsche Telekom's provisions for pensions are comprised as follows:

millions of €	Dec. 31, 2023	Dec. 31, 2022
<b>Defined benefit liability</b>	<b>4,060</b>	<b>4,150</b>
Defined benefit asset	(46)	(40)
<b>Net defined benefit liability (asset)</b>	<b>4,014</b>	<b>4,109</b>
Of which: provisions for direct commitments	3,794	3,883
Of which: provisions for indirect commitments	220	226

Defined benefit liabilities are disclosed under non-current liabilities in the consolidated statement of financial position. The defined benefit asset is recognized under other non-current assets in the consolidated statement of financial position.

The net defined benefit liability (asset) decreased slightly year-on-year from EUR 4.1 billion to EUR 4.0 billion. The increase in the fair values of plan assets was almost offset by the decline in the discount rate, which increased the present value of the obligation.

### Calculation of net defined benefit liabilities/assets

millions of €	Dec. 31, 2023	Dec. 31, 2022
Present value of the obligations fully or partially funded by plan assets	10,510	9,977
Plan assets at fair value	(6,907)	(6,265)
<b>Defined benefit obligations in excess of plan assets</b>	<b>3,603</b>	<b>3,712</b>
Present value of the unfunded obligations	359	345
<b>Defined benefit liability (asset) according to IAS 19.63</b>	<b>3,962</b>	<b>4,057</b>
Effect of asset ceiling (according to IAS 19.64)	52	52
<b>Net defined benefit liability (asset)</b>	<b>4,014</b>	<b>4,109</b>

millions of €	2023	2022
<b>Net defined benefit liability (asset) as of January 1</b>	<b>4,109</b>	<b>6,080</b>
Service cost	177	263
Net interest expense (income) on the net defined benefit liability (asset)	166	83
Remeasurement effects	(18)	(1,839)
Pension benefits paid directly by the employer	(371)	(419)
Employer contributions to plan assets	(41)	(46)
Changes attributable to business combinations/transfers of operation/acquisitions and disposals	2	(18)
Reclassifications to liabilities directly associated with non-current assets and disposal groups held for sale	0	(29)
Administration costs actually incurred (paid from plan assets)	0	0
Exchange rate fluctuations for plans in foreign currency	(10)	34
<b>Net defined benefit liability (asset) as of December 31</b>	<b>4,014</b>	<b>4,109</b>

### Assumptions for the measurement of defined benefit obligations

Key assumptions for the measurement of the defined benefit obligations are the discount rate, the salary increase rate, the pension increase rate, and life expectancy. The following table shows the assumptions for the Group's relevant defined benefit obligations (Germany, United States, Switzerland) on which the measurement as of December 31 of the respective year is based. The assumptions made as of December 31 of the respective prior year are used to measure the expected pension expense (defined benefit cost) of a given financial year.



		Dec. 31, 2023	Dec. 31, 2022	Dec. 31, 2021
%				
Discount rate	Germany	3.49	4.13	1.18
	United States	5.20	5.59	3.05
	Switzerland	1.43	2.42	0.33
Salary increase rate	Germany	2.50	2.50	2.50
	United States <sup>a</sup>	n.a.	n.a.	4.25
	Switzerland	1.40	1.60	1.00
Pension increase rate	Germany (general)	2.20	2.10	1.70
	Germany (according to articles of association)	1.00	1.00	1.00
	United States	n.a.	n.a.	n.a.
	Switzerland	0.10	0.10	0.10

<sup>a</sup> The salary increase rate in the United States has no impact on the amount of the pension obligations, since all commitments are frozen.

		Dec. 31, 2023	Dec. 31, 2022
years			
Duration	Germany	9.7	9.7
	United States	11.3	11.2
	Switzerland	13.8	12.3

The following biometric assumptions were essential for the measurement of pension obligations:

Germany: Heubeck 2018G, Switzerland: BVG 2020 Generational, United States: Pri-2012 tables.

The aforementioned discount rates were used as of December 31, 2023 when calculating the present value of defined benefit obligations, taking into account future salary increases. The rates were determined in line with the average weighted duration of the respective obligation.

The discount rate is determined based on the yields of high-quality corporate bonds with AA rating, mapped in a yield curve showing the corresponding spot rates. The underlying method is routinely reviewed and refined as required (e.g., further development of the bond markets, automation of the availability of corresponding data in terms of quantity and quality).

### Development of defined benefit obligations

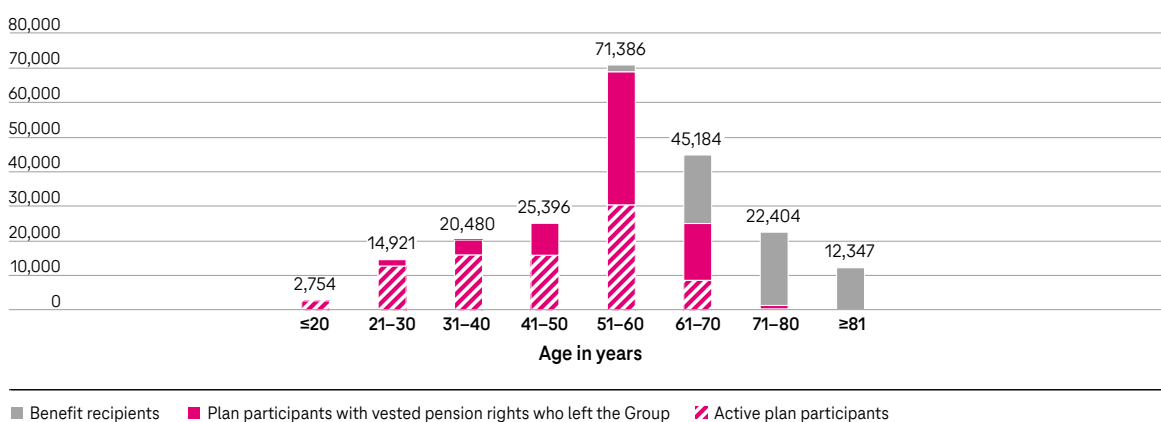
		2023	2022
millions of €			
<b>Defined benefit obligations as of January 1</b>		<b>10,322</b>	<b>13,975</b>
Current service cost		146	226
Interest cost		433	205
Remeasurement effects		541	(3,625)
Of which: experience-based adjustments		(26)	27
Of which: adjusted financial assumptions		573	(3,653)
Of which: adjusted demographic assumptions		(6)	1
Total benefits actually paid		(578)	(573)
Contributions by plan participants		4	4
Changes attributable to business combinations/transfers of operation/acquisitions and disposals		2	(18)
Past service cost (due to plan amendments/curtailments)		(3)	(3)
Settlements		34	40
Reclassifications to liabilities directly associated with non-current assets and disposal groups held for sale		0	(29)
Taxes to be paid as part of pensions		0	0
Exchange rate fluctuations for plans in foreign currency		(32)	120
<b>Defined benefit obligations as of December 31</b>		<b>10,869</b>	<b>10,322</b>
Of which: active plan participants		4,263	3,983
Of which: plan participants with vested pension rights who left the Group		2,261	2,151
Of which: benefit recipients		4,345	4,188

## Distribution of obligations relating to Deutsche Telekom's most significant plans

	Dec. 31, 2023				Dec. 31, 2022			
	Germany	United States	Switzerland	Other plans	Germany	United States	Switzerland	Other plans
Defined benefit obligations	8,805	1,489	222	352	8,308	1,481	200	333
Plan assets at fair value	(5,290)	(1,172)	(275)	(170)	(4,690)	(1,162)	(252)	(161)
Effect of asset ceiling	0	0	52	0	0	0	52	0
<b>Net defined benefit liability (asset)</b>	<b>3,515</b>	<b>317</b>	<b>0</b>	<b>183</b>	<b>3,618</b>	<b>319</b>	<b>0</b>	<b>172</b>

The following comments on the age structure and sensitivity analysis, as well as on descriptions of plans and the risks associated with them, relate to the relevant pension obligations (Germany, United States, and Switzerland).

### Age structure of plan participants in the most significant pension plans



### Sensitivity analysis for the defined benefit obligations

The following sensitivity analysis describes the effects of possible adjustments in the material actuarial assumptions for measurement on the defined benefit obligations determined as of December 31, 2023.

	Increase (decrease) of the defined benefit obligations as of Dec. 31, 2023			Increase (decrease) of the defined benefit obligations as of Dec. 31, 2022		
	Germany	United States	Switzerland	Germany	United States	Switzerland
Increase of discount rate by 100 basis points	(742)	(145)	(19)	(695)	(144)	(16)
Decrease of discount rate by 100 basis points	879	174	24	822	172	19
Increase of salary increase rate by 50 basis points	0	0	1	0	0	1
Decrease of salary increase rate by 50 basis points	0	0	(1)	0	0	(1)
Increase of pension increase rate by 25 basis points	4	0	5	4	0	4
Decrease of pension increase rate by 25 basis points	(4)	0	(2)	(4)	0	(1)
Life expectancy increase by 1 year	171	40	5	160	38	4
Life expectancy decrease by 1 year	(174)	(41)	(5)	(158)	(39)	(4)

The sensitivity analysis was carried out separately for the discount rate, the salary increase rate, and the pension increase rate. For this purpose, further actuarial evaluations were made for both the increase and for the decrease of the assumptions. It can be assumed that the life expectancy of the plan members will not change significantly within a year. Nevertheless, the effect of a change in life expectancy on the obligations was additionally determined from a risk perspective. Evaluations were carried out based on the assumption that the life expectancy of the plan members aged 65 would increase or decrease by one year. The life expectancy of the remaining plan members was adjusted accordingly. Variations in the assumed retirement age or turnover rates would only have an immaterial effect, especially in Germany.

### Global Pension Policy and description of the plans

Deutsche Telekom manages its pension commitments based on the Group-wide Global Pension Policy. It ensures on a worldwide basis that Group minimum standards regarding the granting and management of company pension benefits are complied with, plans are harmonized, and financial and other risks to the core business are avoided or reduced. In addition, the policy provides guidelines for the implementation and management of pension commitments and defines requirements for the launch, adjustment, and closure of corresponding plans. The regulations and provisions laid down in this Group policy take into account the national differences in state pension and other commitments under labor, tax, and social law and the common business practices in the area of pension commitments.

Defined benefit plans based on final salaries in the Group have largely been replaced by plans with contribution-based promises to minimize the risks involved. In addition, a corporate CTA (Deutsche Telekom Trust e.V.) is used in Germany for additional funding of pension obligations. A CTA is a legally structured trust agreement to cover unfunded pension commitments with plan assets, and to provide greater protection against insolvency for these assets.

In **Germany** there are commitments for pension and disability benefits for a majority of employees as well as pension benefits for their surviving dependents. As part of a reorganization of the company pension plan, a capital account plan was introduced across Germany in 1997 for active employees. Furthermore, in subsequent years, commitments acquired through company acquisitions were also transferred to the capital account plan scheme. The capital account plan is an employer-financed, contribution-based benefit promise. The salary-linked contributions granted annually earn interest in advance for each year of provision up to age 60, calculated using age-based factors, converting the contribution into a guaranteed insured amount. The advance interest rate currently stands at 3.50 % p. a. (target interest rate for the capital account plan).

The period for providing these contributions to the capital accounts plan is initially limited to ten future contribution years. The contribution period will be extended automatically every year by a further year, unless terminated. The insured amounts accumulated over the period of active service are paid out if an insured event arises, primarily in the form of a lump sum. Hence there is only a limited longevity risk for these commitments. Based on the payment guidelines and the structure of the capital account plan, the employer can plan for this, and there is only a small risk inherent in the plan with regard to the volatility of remuneration dynamics.

In October 2020, Deutsche Telekom and the ver.di trade union had agreed to gradually restructure the collectively agreed risk benefits (death in the active phase and/or disability) in the company pension scheme for employees covered and not covered by collective agreements in Germany. Grandfather clauses have been included for employees who have worked for the company for longer periods and part-time employees. As a result of the restructuring, risk benefit payments are directly recognized as expenses in the payout year. Provisions recognized according to the previous rules under provisions for pensions and other employee benefits for entitlements after the restructuring takes effect were measured under the new rules using the respective discount rate at the transition date and reversed through profit or loss in the fourth quarter of 2020 for employees covered by collective agreements and in the first quarter of 2021 for employees not covered by collective agreements.

In addition, in Germany there are various closed legacy commitments, which generally provide for old-age and disability benefits as well as benefits for surviving dependents in the form of life-long pensions. The commitments predominantly comprise the overall pension of the supplementary retirement pensions institution (Versorgungsanstalt der Deutschen Bundespost – VAP) that takes into account the statutory pension.

To the extent that defined benefit plans in Germany grant annuities, the future adjustment for these pensions, except for insignificant exceptions, is bindingly defined in the existing benefit regulations. A change in the assumptions for the general pension trend in Germany therefore only has an immaterial impact on the defined benefit obligations.

As a change in life expectancy mainly impacts on the obligations from legacy pension commitments and, since 1997, commitments have been granted in the form of capital, the significance of the risk resulting from the change in life expectancy is expected to decline for the Group over subsequent years.

To cover pension obligations over the long term, Deutsche Telekom has transferred funds to a corporate CTA and a corporate pension fund.

The main pension plans in the **United States** comprise medical plans, life insurance (for pensioners and active employees), and pension commitments. The commitments have been entirely frozen and replaced by contribution plans (401(k) plans) within the meaning of IAS 19 for future vested rights.

The pension commitments in the United States mainly relate to two defined benefit plans: the Sprint Retirement Pension Plan (SRPP) and the Supplemental Executive Retirement Plan (SERP). The benefit amount under the SRPP is calculated primarily on the basis of 1.5 % of the beneficiary's total salary up to December 31, 2005. Furthermore, the additional SERP was set up for contributions above the tax exemption limits for the relevant eligible persons. Both plans have been frozen since December 31, 2005, such that plan participants have not been able to earn any more vested rights since that date.

The SRPP is financed through a pension fund within the framework of U.S. regulations. The level of financing of the SRPP is regularly reviewed, with the company paying additional contributions into the pension fund on top of the minimum contributions if necessary, depending on the financing status.

Under the medical plans, the Company grants allowances for medical care after retirement to top up statutory benefits. In addition to the existing pensioners, there is a small group of active employees who are near retirement, who can also access benefits from these plans.

Under the life insurance policies, the Company pays a benefit in the event of the death of a pensioner (basic coverage for pensioners prior to 2004) of 50 % of the final allowable income drawn (taking into account a cap for the maximum amount payable).

Under the company pension system in **Switzerland**, a defined benefit plan is in place that is financed by employer and employee contributions (within the meaning of IAS 19). This plan is granted by the legally independent T-Systems pension fund. As is often the case in Switzerland, the companies grant higher benefits than legally required. The Swiss Federal Law on Occupational Retirement, Surviving Dependents' and Disability Pension (Bundesgesetz über die berufliche Alters-, Hinterlassenen- und Invalidenvorsorge – BVG) sets out minimum requirements for the pay to be insured, the age-based contributions, and a minimum annuity factor for the obligatory portion of the accrued retirement assets to be annuitized. In addition, the Swiss Federal Council defines a minimum interest rate for the obligatory retirement assets (2024: 1.25 %, 2023: 1.00 %).

The foundation board (Stiftungsrat) presides over the Swiss pension fund. It ensures the day-to-day running of the pension fund and decides on fundamental aspects, such as the amount and the structure of the pension benefits and the asset investment strategy. The foundation board is equally composed of employer and employees' representatives.

Due to the minimum yield for the obligatory retirement assets, a risk exists for the plans in Switzerland that additional resources would have to be allocated to the pension fund if it were to be underfinanced. The pension fund offers the plan members the option to choose a life-long pension instead of a one-time payment. This option gives rise to longevity and investment risks, since at the time of retirement, assumptions must be made regarding life expectancy and return on assets. As of January 1, 2018, T-Systems Schweiz decided to apply the risk-sharing method when measuring its pension obligations. The measurement of obligations was changed such that employee participation in funding a possible deficit can be taken into account when measuring the employer's obligation. The general option for employee participation in funding a deficit is covered by Art. 28 of the pension regulations.

#### Development of plan assets at fair value

millions of €	2023	2022
<b>Plan assets at fair value as of January 1</b>	<b>6,265</b>	<b>7,937</b>
Changes attributable to business combinations/transfers of operation/acquisitions and disposals	0	0
Interest income on plan assets (calculated using the discount rate)	269	123
Amount by which the actual return exceeds (falls short of) the interest income on plan assets (remeasurement)	555	(1,779)
Contributions by employer	41	46
Contributions by plan participants	4	4
Benefits actually paid from plan assets	(207)	(155)
Settlements	0	0
Administration costs	0	0
Tax payments	0	0
Exchange rate fluctuations for plans in foreign currency	(19)	89
<b>Plan assets at fair value as of December 31</b>	<b>6,907</b>	<b>6,265</b>

**Breakdown of plan assets at fair value by investment category**

millions of €

	Dec. 31, 2023	Of which: price in an active market	Of which: price without an active market	Dec. 31, 2022	Of which: price in an active market	Of which: price without an active market
Equity securities	4,457	4,457	0	3,829	3,829	0
Of which: shares in BT	1,702	1,702	0	1,510	1,510	0
Debt securities	1,948	1,948	0	1,954	1,954	0
Real estate	88	36	52	85	12	73
Derivatives	1	1	0	0	0	0
Investment funds	40	40	0	12	12	0
Asset-backed securities	1	1	0	0	0	0
Structured debt instruments	0	0	0	0	0	0
Cash and cash equivalents	127	127	0	119	119	0
Other	245	213	32	264	235	29
<b>Plan assets at fair value</b>	<b>6,907</b>	<b>6,823</b>	<b>84</b>	<b>6,265</b>	<b>6,162</b>	<b>102</b>

The investment policy and risk management are set in line with the risk and development characteristics of the pension obligations. On the basis of a systematic, integrated asset/liability management analysis, potential results from different investment portfolios, which can cover a large number of asset classes, are compared with the stochastically simulated development of the pension obligations, thereby explicitly considering the relative development of plan assets against the pension obligations. The investment strategy is mainly characterized by the objective of satisfying obligations from granted pension commitments on time by systematically setting up and professionally managing a suitable portfolio for the plan assets. It essentially aims to establish a widely diversified investment portfolio that generates a risk profile appropriate to the overall objective, by means of corresponding risk factors and diversification. The management of investments is subject to continuous monitoring to ensure active risk management. Cost-efficient investment management is effected by means of professional portfolio management involving external service providers.

At the reporting date, the plan assets at fair value included shares amounting to EUR 5 million (December 31, 2022: EUR 5 million) and bonds amounting to EUR 6 million (December 31, 2022: EUR 6 million) issued by Deutsche Telekom AG and its subsidiaries.

**Development of the effect of the asset ceiling**

millions of €

	2023	2022
<b>Effect of asset ceiling as of January 1</b>	<b>52</b>	<b>42</b>
Interest expense on asset ceiling (recognized in the income statement)	1	0
Changes in asset ceiling ((gains) losses recognized in equity)	(4)	8
Currency gain (loss)	4	3
<b>Effect of asset ceiling as of December 31</b>	<b>52</b>	<b>52</b>

### Breakdown of defined benefit costs in the income statement<sup>a</sup>

millions of €			2023	2022	2021
	Disclosure in income statement				
Current service cost	Personnel costs		146	225	234
Past service cost (due to plan amendments/curtailments)	Personnel costs		(3)	(3)	(87)
Settlements	Personnel costs		34	40	0
<b>Service cost</b>			<b>177</b>	<b>262</b>	<b>147</b>
Interest cost	Other financial income (expense)		433	205	179
Interest income on plan assets (calculated using the discount rate)	Other financial income (expense)		(269)	(123)	(90)
Interest expense on the effect of the asset ceiling	Other financial income (expense)		1	0	0
<b>Net interest expense (income) on net defined benefit liability (asset)</b>			<b>166</b>	<b>83</b>	<b>89</b>
<b>Defined benefit cost</b>			<b>343</b>	<b>344</b>	<b>236</b>
Administration costs actually incurred (paid from plan assets)	Personnel costs		0	0	0
<b>Total amounts recognized in profit or loss</b>			<b>343</b>	<b>344</b>	<b>236</b>

<sup>a</sup> GD tower companies, which operated the cell tower business in Germany and Austria and was assigned to the Group Development operating segment, was recognized as a discontinued operation in the consolidated financial statements from the third quarter of 2022 until its sale on February 1, 2023. The consolidated income statement has been adjusted accordingly with retrospective effect.

### Amounts recognized in the consolidated statement of comprehensive income

millions of €			2023	2022	2021
<b>Remeasurement ((gain) loss recognized in other comprehensive income in the financial year)</b>			<b>(18)</b>	<b>(1,839)</b>	<b>(1,423)</b>
Of which: remeasurement due to a change in defined benefit obligations			541	(3,625)	(421)
Of which: remeasurement due to a change in plan assets			(555)	1,779	(1,040)
Of which: remeasurement due to changes in the effect of asset ceiling (according to IAS 19.64)			(4)	8	38

### Total benefit payments expected

millions of €		2024	2025	2026	2027	2028
Benefits paid from pension provisions		269	584	717	718	664
Benefits paid from plan assets		217	113	116	120	121
<b>Total benefits expected</b>		<b>486</b>	<b>697</b>	<b>833</b>	<b>838</b>	<b>785</b>

Since 2018, benefit payments for direct pension commitments have also been funded using CTA assets. Furthermore, Deutsche Telekom reserves the right to claim reimbursement from CTA assets in the following year, as required, for payments made directly by the employer. The last time this happened was in 2018.

For 2024, Deutsche Telekom does not plan any allocations to plan assets at fair value in Germany. Deutsche Telekom is planning an international allocation of at least EUR 57 million in 2024.

### Defined contribution plans

The employer's contribution paid to the statutory pension scheme (Deutsche Rentenversicherung) in Germany in the 2023 financial year totaled EUR 0.5 billion (2022: EUR 0.4 billion, 2021: EUR 0.4 billion). Group-wide, EUR 201 million (2022: EUR 157 million, 2021: EUR 191 million) from current contributions for additional defined contribution plans was recognized in the consolidated income statement in 2023.

### Civil-servant retirement arrangements at Deutsche Telekom

An expense of EUR 271 million was recognized in the 2023 financial year (2022: EUR 302 million, 2021: EUR 343 million) for the annual contribution to the Civil Service Pension Fund, which generally amounts to 33 % of the pensionable gross emoluments of active civil servants and the notional pensionable gross emoluments of civil servants on temporary leave from civil-servant status. The present value of future payment obligations was EUR 0.8 billion as of the reporting date (December 31, 2022: EUR 0.9 billion, December 31, 2021: EUR 1.1 billion) and is shown under other financial obligations.

For further information, please refer to Note 42 "Other financial obligations."

### 16 Other provisions

millions of €							
	Provisions for termination benefits	Other provisions for personnel costs	Provisions for restoration obligations	Provisions for litigation risks	Provisions for sales and procurement support	Miscellaneous other provisions	Total
<b>At December 31, 2021</b>	<b>133</b>	<b>4,714</b>	<b>2,990</b>	<b>405</b>	<b>558</b>	<b>663</b>	<b>9,463</b>
Of which: current	47	2,260	236	381	558	420	3,903
Transfer resulting from changes in accounting standards	0	0	0	0	0	0	0
Changes in the composition of the Group	0	(1)	0	0	0	0	(1)
Currency translation adjustments	3	39	105	5	7	6	165
Addition	95	2,428	757	359	708	619	4,965
Use	(130)	(2,008)	(997)	(63)	(515)	(303)	(4,017)
Reversal	(3)	(215)	(153)	(123)	(10)	(72)	(577)
Interest effect	0	(825)	(166)	2	0	(1)	(990)
Other changes	0	(97)	(675)	(2)	0	(31)	(805)
<b>At December 31, 2022</b>	<b>97</b>	<b>4,034</b>	<b>1,861</b>	<b>582</b>	<b>749</b>	<b>881</b>	<b>8,204</b>
Of which: current	51	2,156	272	556	749	629	4,412
Transfer resulting from changes in accounting standards	0	0	0	0	0	0	0
Changes in the composition of the Group	0	(1)	0	0	0	0	(1)
Currency translation adjustments	0	(28)	(43)	(13)	(10)	(7)	(100)
Addition	244	2,393	603	132	499	223	4,094
Use	(82)	(2,199)	(745)	(28)	(691)	(353)	(4,099)
Reversal	(3)	(84)	(27)	(33)	(5)	(167)	(318)
Interest effect	0	378	62	(2)	0	1	439
Other changes	(1)	(126)	(1)	7	0	2	(119)
<b>At December 31, 2023</b>	<b>254</b>	<b>4,369</b>	<b>1,709</b>	<b>646</b>	<b>542</b>	<b>580</b>	<b>8,100</b>
Of which: current	220	1,973	139	573	542	388	3,835

The carrying amount of current and non-current other provisions decreased by EUR 0.1 billion compared with December 31, 2022 to EUR 8.1 billion, primarily due to the factors described below.

Provisions for termination benefits and other provisions for personnel costs include, among other components, provisions for staff restructuring. These have developed as follows in the 2023 financial year:

millions of €							
	Jan. 1, 2023	Changes in the composition of the Group	Addition	Use	Reversal	Other changes	Dec. 31, 2023
Severance and voluntary redundancy models	97	0	244	(82)	(3)	(1)	254
Phased retirement	1,005	0	731	(585)	(1)	34	1,184
	<b>1,102</b>	<b>0</b>	<b>975</b>	<b>(667)</b>	<b>(3)</b>	<b>32</b>	<b>1,439</b>
Of which: current	341						539

Provisions for termination benefits increased by EUR 0.2 billion, primarily due to the program implemented by T-Mobile US in the third quarter of 2023 to reduce its workforce by almost 5,000 positions, which equates to just under 7 % of employees at T-Mobile US. Essentially all expenses arising in connection with this program were recognized in the 2023 financial year. The associated cash outflows will continue essentially until mid-2024.

Other provisions for personnel costs increased by EUR 0.3 billion, mainly due to an increase in the carrying amount of the provision recognized for the Civil Health Insurance Fund (Postbeamtenkrankenkasse – PBeaKK). This is primarily due to a decline in the discount rate. By contrast, the provisions for performance-related remuneration components and leave not taken decreased. Other provisions for personnel costs also include provisions for deferred compensation and allowances, as well as for anniversary gifts.

The provisions for restoration obligations decreased by EUR 0.2 billion. These include the estimated costs for dismantling and removing assets, and restoring the sites on which they are located. The estimated costs are included in the costs of the relevant assets. The decline is primarily due to the decommissioning of the former Sprint's wireless network and the closure of shops in the United States operating segment in 2022.

Provisions for litigation risks increased by EUR 0.1 billion compared with the prior year, mainly in connection with the proceedings pending in consequence of the cyberattack on T-Mobile US in August 2021. The provisions for litigation risks primarily relate to possible settlements attributable to pending lawsuits.

Provisions for sales and procurement support decreased by EUR 0.2 billion. These provisions are recognized for dealer commissions and market development funds (advertising subsidies, and refunds). Provisions for sales and procurement support decreased mainly in connection with the bonuses paid out to sales partners in the United States operating segment.

Miscellaneous other provisions decreased by EUR 0.3 billion. They include a large number of low-value individual items, such as provisions related to executory contracts, the disposal of businesses and site closures, in particular in prior financial years, as well as warranty and environmental damage provisions.

For further information on litigation risks from pending lawsuits, please refer to Note 39 "Contingencies."

In the measurement of the other provisions, Deutsche Telekom is exposed to interest rate fluctuations, which is why the effect of a possible change in the interest rate on the principal non-current provisions was simulated. The other, non-staff-related provisions are discounted using maturity-related discount rates specific to the respective currency area. To this end, Deutsche Telekom determines discount rates with maturities of up to 30 years. In 2023, the discount rates ranged from 2.95 to 4.10 % (2022: from 2.69 to 3.93 %) in the euro currency area and from 5.18 to 6.17 % (2022: from 5.20 to 6.78 %) in the U.S. dollar currency area. If the discount rate were increased by 50 basis points with no other change in the assumptions, the present value of the principal other non-current provisions would decrease by EUR 62 million (December 31, 2022: EUR 49 million). If the discount rate were decreased by 50 basis points with no other change in the assumptions, the present value of the principal other non-current provisions would increase by EUR 65 million (December 31, 2022: EUR 50 million).

## 17 Other liabilities

millions of €	Dec. 31, 2023	Of which: current	Dec. 31, 2022	Of which: current
Early retirement	681	276	781	323
Deferred revenue	30	17	46	21
Liabilities from other taxes	1,886	1,886	1,915	1,915
Other deferred revenue	224	145	209	83
Liabilities from severance payments	89	89	51	50
Liabilities – publicly funded projects	1,588	418	1,739	397
Miscellaneous other liabilities	819	613	841	623
	<b>5,317</b>	<b>3,444</b>	<b>5,582</b>	<b>3,412</b>

The carrying amount of current and non-current other liabilities decreased by EUR 0.3 billion to EUR 5.3 billion. Liabilities resulting from early retirement arrangements for civil servants decreased by EUR 0.1 billion. These liabilities exist vis-à-vis the Civil Service Pension Fund and arise from payment obligations under agreements that had already been concluded. The obligations are payable in up to seven annual installments following retirement. Liabilities in connection with publicly funded projects decreased by EUR 0.2 billion in particular due to existing build-out obligations in connection with grants still to be received from funding projects for the broadband build-out in the Germany operating segment.



## 18 Contract liabilities

The carrying amount of current and non-current contract liabilities increased year-on-year from EUR 2.5 billion to EUR 2.8 billion. These substantially include deferred revenues. The increase resulted from higher contract liabilities in the Germany and Europe operating segments. By contrast, the end of marketing of a business model in connection with the Equipment Installment Plan in the United States operating segment reduced contract liabilities by EUR 84 million.

Revenue of EUR 2,996 million (2022: EUR 2,794 million) from contract liabilities that were still outstanding as of December 31, 2022 was realized in the reporting year. Of the total of contract liabilities, EUR 1,919 million (December 31, 2022: EUR 1,868 million) is due within one year.

For further information on the business transactions, please refer to the section "Changes in the composition of the Group and other transactions" under "Summary of accounting policies."

## 19 Shareholders' equity

### Issued capital

As of December 31, 2023, the share capital of Deutsche Telekom AG totaled EUR 12,765 million. The share capital is divided into 4,986,458,596 no par value registered shares.

	2023		2022	
	thousands	%	thousands	%
Federal Republic of Germany – Berlin, Germany	689,601	13.8	689,601	13.8
KfW Bankengruppe – Frankfurt/Main, Germany	829,179	16.6	829,179	16.6
Free float	3,467,679	69.6	3,467,679	69.6
Of which: BlackRock, Inc. – Wilmington, DE, United States <sup>a</sup>	234,194		234,194	
Of which: SoftBank Group Corp. – Tokyo, Japan <sup>b</sup>	225,000		225,000	
	<b>4,986,459</b>	<b>100.0</b>	<b>4,986,459</b>	<b>100.0</b>

<sup>a</sup> According to the last notification from BlackRock published on September 22, 2017, the reporting threshold of 3 % of the voting rights was exceeded. The stake in Deutsche Telekom AG was thus 4.92 % of the voting rights on September 15, 2017. In connection with the capital increase carried out on September 28, 2021 against contribution in kind, the stake decreased to 4.70 % of the voting rights, on the assumption of an unchanged number of shares.

<sup>b</sup> According to the last notification from SoftBank published on October 7, 2021, the reporting threshold of 3 % of the voting rights was exceeded. The stake in Deutsche Telekom AG was thus 4.51 % of the voting rights on October 7, 2021.

**Treasury shares.** The amount of issued capital assigned to treasury shares was approximately EUR 20 million at December 31, 2023. This equates to 0.2 % of share capital. 7,843,113 treasury shares were held at December 31, 2023.

The shareholders' meeting resolved on April 1, 2021 to authorize the Board of Management to purchase shares in the Company by March 31, 2026, with the amount of share capital accounted for by these shares totaling up to EUR 1,218,933,400.57, provided the shares to be purchased on the basis of this authorization in conjunction with the other shares of the Company that the Company has already purchased and still possesses or are to be assigned to it under § 71d and § 71e AktG do not at any time account for more than 10 % of the Company's share capital. Moreover, the requirements under § 71 (2) sentences 2 and 3 AktG must be complied with. Shares shall not be purchased for the purpose of trading in treasury shares. This authorization may be exercised in full or in part. The purchase can be carried out in partial tranches spread over various purchase dates within the authorization period until the maximum purchase volume is reached. Dependent Group companies of Deutsche Telekom AG within the meaning of § 17 AktG or third parties acting for the account of Deutsche Telekom AG or for the account of dependent Group companies of Deutsche Telekom AG within the meaning of § 17 AktG are also entitled to purchase the shares. The shares are purchased through the stock exchange in adherence to the principle of equal treatment (§ 53a AktG). Shares can instead also be purchased by means of a public purchase or share exchange offer addressed to all shareholders, which, subject to a subsequently approved exclusion of the right to offer shares, must also comply with the principle of equal treatment.

The shares may be used for one or several of the purposes permitted by the authorization granted by the shareholders' meeting on April 1, 2021 under item 7 on the agenda. The shares may also be used for purposes involving an exclusion of subscription rights. In addition, they may be sold on the stock market or by way of an offer to all shareholders, or canceled. The shares may be used to fulfill the rights of Board of Management members to receive shares in Deutsche Telekom AG, which the Supervisory Board has granted to these members as part of the arrangements governing the remuneration of the Board of Management, on the basis of a decision by the Supervisory Board to this effect. Furthermore, under the authorization granted on April 1, 2021, the Board of Management is authorized to offer and/or grant shares to employees of Deutsche Telekom AG and of lower-tier affiliated companies as well as to managing board members of lower-tier affiliated companies; this also includes the authorization to offer or grant shares free of charge or on other special conditions.

Under the resolution of the shareholders' meeting on April 1, 2021, the Board of Management is also authorized to acquire the shares through the use of equity derivatives.

No treasury shares were acquired in the reporting period and in the prior year. Currently, the treasury shares for participants of the Share Matching Plan and of the Shares2You shares program for employees are issued from the pool of shares previously held in a trust deposit.

As part of the acquisition of VoiceStream Wireless Corp., Bellevue, and Powertel, Inc., Bellevue, in 2001, Deutsche Telekom AG issued new shares from authorized capital to a trustee, for the benefit of holders of warrants, options, and conversion rights, among others. These option or conversion rights expired in full in the 2013 financial year. As a result, the trustee no longer had any obligation to fulfill any claims in accordance with the purpose of the deposit. The trust relationship was terminated at the start of 2016 and the deposited shares were transferred free of charge to a custody account of Deutsche Telekom AG. On the basis of authorization by the shareholders' meetings on May 25, 2016 and April 1, 2021, the treasury shares acquired free of charge may be used for the same purposes as the treasury shares acquired for a consideration. In the reporting year, 5,972 thousand previously deposited shares were reallocated for issue to eligible participants of the Share Matching Plan (prior year: 708 thousand shares).

For matching shares from the Share Matching Plan and for free shares from the Shares2You shares program for employees, treasury shares are transferred free of charge to the custody accounts of employees of Deutsche Telekom AG. In cases where treasury shares are transferred to the custody accounts of employees of other Group companies, the costs have been transferred at fair value to the respective Group company since the 2016 financial year. For treasury shares bought by way of the personal investment as part of the employee share program Shares2You and transferred to the custody accounts of employees, a conversion rate of EUR 20.96 per share and EUR 20.24 per share was used on the respective dates. The conversion is determined using the lowest price at which a trade actually took place on an official German exchange on the date of conversion.

In all months of the reporting year, except for December, treasury shares (5,914 thousand in total) were reallocated and transferred to the custody accounts of eligible participants (prior year: 760 thousand treasury shares). As of December 31, 2023, disposals of treasury shares resulting from the transfers in the reporting period accounted for 0.12 %, or EUR 15 million, of share capital. Gains on disposal arising from transfers of treasury shares amounted to EUR 118 million. The transfers of treasury shares increased the capital reserve by EUR 103 million. In the reporting year, 1,808 thousand treasury shares with a fair value of EUR 37 million were billed to other Group companies.

**Voting rights.** Each share entitles the holder to one vote. These voting rights are restricted, however, in relation to treasury shares (at December 31, 2023: around 8 million in total).

**Authorized capital and contingent capital.** Authorized capital and contingent capital comprised the following components as of December 31, 2023:

	Amount millions of €	No par value shares thousands	Purpose
2022 Authorized Capital	3,830	1,495,938	Capital increase against cash contribution/contribution in kind until April 6, 2027
2018 Contingent Capital <sup>a</sup>	1,200	468,750	Servicing convertible bonds and/or bonds with warrants issued on or before May 16, 2023

<sup>a</sup> A capital increase from the 2018 Contingent Capital, however, is no longer possible, because the authorization granted to the Board of Management by the shareholders' meeting on May 17, 2018 to issue bonds with warrants or convertible bonds with option or conversion rights to shares of the Company expired on May 16, 2023, without these rights being exercised.

## Changes in the composition of the Group, transactions with owners, and capital increase.

The following table shows the changes in the composition of the Group and the development of transactions with owners:

millions of €	2023			2022		
	Issued capital and reserves attributable to owners of the parent	Non-controlling interests	Total shareholders' equity	Issued capital and reserves attributable to owners of the parent	Non-controlling interests	Total shareholders' equity
<b>Changes in the composition of the Group</b>	<b>0</b>	<b>(4)</b>	<b>(4)</b>	<b>0</b>	<b>(583)</b>	<b>(583)</b>
Sale of T-Mobile Netherlands	0	0	0	0	(583)	(583)
Other effects	0	(4)	(4)	0	0	0
<b>Transactions with owners</b>	<b>(5,078)</b>	<b>(7,378)</b>	<b>(12,456)</b>	<b>(2,569)</b>	<b>(3,428)</b>	<b>(5,997)</b>
T-Mobile US: Share buy-back 2022/ shareholder return 2023/ transfer of shares to SoftBank/ share-based payment	(5,034)	(7,183)	(12,217)	(978)	(1,994)	(2,972)
Increase of the stake in T-Mobile US	0	0	0	(1,493)	(1,178)	(2,672)
Magyar Telekom share buy-back	17	(56)	(39)	15	(53)	(38)
OTE share buy-back	(58)	(119)	(177)	(100)	(190)	(290)
Hrvatski Telekom share buy-back	(3)	(19)	(22)	(2)	(22)	(24)
Other effects	0	0	0	(10)	9	(1)

Transactions with owners decreased the carrying amount of shareholders' equity by EUR 12.5 billion in the reporting year. They mainly relate to the United States operating segment and result from the following transactions or circumstances: T-Mobile US share buy-back program from September 2022, T-Mobile US shareholder return program from September 2023 – comprising the 2023 share buy-back program and the payment of an initial cash dividend of USD 0.65 per share – the transfer of T-Mobile US shares to SoftBank in December 2023, and share-based payment.

For further information, please refer to the section “Changes in the composition of the Group and other transactions” under “Summary of accounting policies.”

### Non-controlling interests: total other comprehensive income

Total other comprehensive income of non-controlling interests primarily comprises remeasurement effects as part of the acquisition of the OTE group totaling EUR 0.3 billion (December 31, 2022: EUR 0.3 billion), as well as currency translation effects of EUR 0.7 billion (December 31, 2022: EUR 1.8 billion), and remeasurement losses recognized directly in equity in connection with forward-payer swaps concluded for borrowings at T-Mobile US, which were terminated prematurely in April 2020.

## Notes to the consolidated income statement

As a result of the sales agreement concluded on July 13, 2022, the GD tower companies had been recognized as a discontinued operation from the third quarter of 2022 until their sale on February 1, 2023. Thus, the contributions by the GD tower companies were no longer included in the individual items of the consolidated income statement. Instead, profit or loss after taxes was disclosed in aggregate form in the item “Profit/loss after taxes from discontinued operation.”

For further information on the sale of the GD tower companies, please refer to the section “Changes in the composition of the Group and other transactions” under “Summary of accounting policies.”

## 20 Net revenue

Net revenue breaks down into the following revenue categories:

millions of €	2023	2022	2021
<b>Service revenues</b>	<b>92,923</b>	<b>92,006</b>	<b>83,218</b>
Germany	22,096	21,533	21,212
United States	58,522	58,219	48,361
Europe	9,739	9,296	9,580
Systems Solutions	3,796	3,751	3,722
Group Development	0	411	1,621
Group Headquarters & Group Services	1,024	1,026	1,078
Reconciliation	(2,254)	(2,231)	(2,354)
<b>Non-service revenues</b>	<b>19,047</b>	<b>22,191</b>	<b>24,392</b>
Germany	3,092	2,972	2,839
United States	13,913	17,217	19,431
Europe	2,051	1,862	1,714
Systems Solutions	100	59	37
Group Development	16	143	457
Group Headquarters & Group Services	1,282	1,381	1,437
Reconciliation	(1,406)	(1,443)	(1,522)
<b>Net revenue<sup>a</sup></b>	<b>111,970</b>	<b>114,197</b>	<b>107,610</b>

<sup>a</sup> Revenue includes interest income of EUR 662 million in the reporting year, calculated using the effective interest method (2022: EUR 589 million, 2021: EUR 276 million). This income is primarily attributable to accrued interest on receivables in connection with handsets sold under installment plans in the United States operating segment.

The breakdown of revenues by revenue category was changed in line with the Group's management model, effective January 1, 2023. Comparative figures have been adjusted retrospectively.

For further information on this change, please refer to the section "[Changes in accounting policies and changes in the reporting structure.](#)"

The service revenues essentially comprise predictable and/or recurring revenues from Deutsche Telekom's core activities. These relate to revenues that are generated from services (i.e., revenues from fixed and mobile network voice services, incoming and outgoing calls, as well as data services) plus roaming revenues, monthly basic charges and visitor revenues, as well as revenues from the ICT business. Service revenue also includes revenues earned in connection with premium services for customers, such as reinsurance for device insurance policies and extended warranties. Revenue from insurance contracts in the scope of IFRS 17 in the Group amounted to EUR 4.5 billion (2022: EUR 4.6 billion, 2021: EUR 2.7 billion).

Non-service revenues mainly comprise one-time and variable revenues, e.g., revenue from the sale or rental of fixed-network or mobile devices, from value-added services, from application and contract services, revenue with virtual network operators, one-time revenue from the build-out of technical infrastructure, and revenue from vehicle and property leasing.

Net revenue includes revenue from the use of entity assets by others in the scope of IFRS 16 in the amount of EUR 1.1 billion (2022: EUR 2.2 billion, 2021: EUR 3.8 billion). Of the revenue from the use of entity assets by others reported in net revenue, EUR 0.7 billion (2022: EUR 0.8 billion, 2021: EUR 0.9 billion) relates to service revenues and EUR 0.4 billion (2022: EUR 1.5 billion, 2021: EUR 2.9 billion) to non-service revenues.

Net revenue for the reporting year was EUR 112.0 billion, down EUR 2.2 billion on the prior-year level. The United States operating segment in particular contributed to the negative revenue trend, which was attributable to lower terminal equipment revenue. First of all, the migration of former Sprint customers to the T-Mobile US network is complete, such that fewer devices compatible with the T-Mobile US network were sold to these customers. Furthermore, customers use their devices longer. In addition, T-Mobile US continued its strategic withdrawal from the terminal equipment lease business. The decline in terminal equipment revenues was only partially offset by an increase in service revenue. In the Group Development operating segment, year-on-year revenue development was dominated by the loss of the value contributions of the sold T-Mobile Netherlands entity and the GD tower companies. The other operating segments recorded positive revenue trends. In the Germany operating segment, revenue increased, driven mainly by growth in service revenues in the fixed-network core business and in mobile communications. Another revenue driver was the partnership business. In the Europe operating segment, revenue growth was primarily attributable to the increase in higher-margin service revenues in the mobile business. Contract customer additions also had positive effects on terminal equipment revenues. Growth in the Road Charging, Digital, Advisory, and Cloud portfolio areas drove revenue growth in the Systems Solutions operating segment.

For information on changes in net revenue, please refer to the section "[Development of business in the Group](#)" in the combined management report.

The total transaction price attributable to performance obligations that have (partially) not been fulfilled (hereinafter: outstanding transaction price) amounts to EUR 23.4 billion (2022: EUR 25.6 billion, 2021: EUR 20.0 billion).

The portion of the outstanding transaction price attributable to performance obligations that have not been fulfilled or not yet completely fulfilled at the end of the reporting year is generally recognized as revenue over the remaining term of the service contracts concluded. Since most service contracts – unless they can be canceled at any time – have a minimum contract term of 24 months, an average remaining term of approximately 12 months can be assumed, provided the course of business in the mass business remains virtually unchanged. The disclosures only refer to transactions within the scope of IFRS 15, i.e., they do not include portions of the transaction price being allocated to performance obligations outside the scope of this standard, e.g., leases.

Deutsche Telekom generally makes use of the practical expedients in IFRS 15, according to which outstanding performance obligations under contracts with an expected original term of no more than one year and revenues recognized in accordance with the billed amounts are exempt from the disclosure requirement. Individual subsidiaries deviate from this general approach and have not made use of these practical expedients for groups of contracts with similar characteristics.

### Service concession arrangements

Satellitic NV, Machelen, Belgium, is a fully consolidated subsidiary of Deutsche Telekom and on July 25, 2014 signed a contractual arrangement with Viapass, the public agency responsible for toll collection in Belgium, for the set-up, operation, and financing of an electronic toll collection system. After Viapass accepted the system on March 30, 2016, the set-up phase was completed on March 31, 2016. The subsequent operation phase has a duration of 12 years, with the additional option for Viapass to extend the term three times by 1 year. Satellic has no entitlement to the toll revenue collected but receives contractually agreed fees for setting up and operating the system. Viapass is authorized to terminate the arrangement giving notice of six months with payment of reasonable compensation. In the event of regular or premature termination of the agreement, Satellic has an obligation to hand over to Viapass, on request, material assets for the operation of the toll collection system that have not yet passed to the ownership of Viapass; in such an event, however, the software platform for toll collection would not be handed over to Viapass. The agreement was classified as a service concession arrangement within the meaning of IFRIC 12. Since the start of the operation phase on April 1, 2016, the separate fees for operation and maintenance services have been recognized as revenue in the respective periods, which totaled EUR 94 million in the reporting year (2022: EUR 85 million, 2021: EUR 75 million).

## 21 Other operating income

millions of €	2023	2022	2021
Income from the reversal of impairment losses on non-current assets	14	2	1
Income from the disposal of non-current assets	228	448	115
Income from reimbursements	135	136	138
Income from insurance compensation	151	369	86
Income from ancillary services	42	25	21
Miscellaneous other operating income	814	3,673	938
Of which: gains resulting from deconsolidations and from the sale of stakes accounted for using the equity method	239	2,732	214
	<b>1,384</b>	<b>4,653</b>	<b>1,300</b>

In the prior year, income from the disposal of non-current assets of EUR 0.2 billion resulted from the further optimization of the real estate portfolio in the Group Headquarters & Group Services segment and of EUR 0.1 billion from the sale of IP addresses related to the former Sprint's fiber-optic-based wireline network in the United States. Income from insurance compensation partly relates to further refunds from insurance companies for expenses incurred in connection with the cyberattack on T-Mobile US in August 2021. In the prior year, EUR 0.2 billion of this income resulted from refunds from insurance companies in connection with damage sustained in the catastrophic flooding in North Rhine-Westphalia and Rhineland-Palatinate in July 2021 and EUR 0.1 billion from refunds from insurance companies in connection with the cyberattack on T-Mobile US in August 2021. Gains resulting from deconsolidations and from the sale of investments accounted for using the equity method related to the sale of an equity investment by Deutsche Telekom Capital Partners. In the prior year, gains resulting from the deconsolidation and sale of stakes accounted for using the equity method were attributable to the loss of control over the GlasfaserPlus entities (EUR 1.7 billion), the sale of T-Mobile Netherlands (EUR 0.9 billion), and the loss of control over DIV II (EUR 0.1 billion). Other operating income in the prior year also included a payment of EUR 0.2 billion in connection with the settlement of a series of patent disputes between T-Mobile US and a competitor as well as a large number of individual items at marginal amounts.

## 22 Changes in inventories

Changes in inventories comprise both volume- and value-based increases and decreases in inventories of finished goods and work in process. There were no significant changes in inventories in the reporting year or in prior years.

## 23 Own capitalized costs

Own capitalized costs amounted to EUR 2.7 billion in the reporting year (2022: EUR 2.9 billion, 2021: EUR 2.8 billion) and mainly relate to investments in network build-out and the development of platforms for cell sites.

## 24 Goods and services purchased

millions of €	2023	2022	2021
Expenses for raw materials and supplies	2,042	2,400	2,188
Expenses for merchandise	22,072	24,994	24,026
Expenses for services purchased	23,087	25,531	23,204
	<b>47,201</b>	<b>52,926</b>	<b>49,418</b>

## 25 Average number of employees and personnel costs

	2023	2022	2021
<b>Group (total)</b>	<b>204,856</b>	<b>211,236</b>	<b>220,840</b>
Of which: discontinued operation	65	760	771
Germany	80,112	83,406	87,276
International	124,744	127,830	133,564
Non-civil servants	197,289	202,346	210,791
Civil servants (domestic, active service relationship)	7,567	8,891	10,049
Trainees and students on cooperative degree courses	4,908	5,251	5,375
<b>Personnel costs</b>	<b>19,077</b>	<b>19,371</b>	<b>18,394</b>
Of which: wages and salaries	15,787	16,052	15,159
Of which: social security contributions and pension benefit costs	3,290	3,319	3,235

The average headcount decreased by 3.0 % compared with the prior year. It decreased in Germany by 3.9 % due in particular to the sale of the GD tower companies as of February 1, 2023, as well as efficiency enhancement measures and the take-up of socially responsible instruments in connection with staff restructuring in the Germany operating segment and in the Group Headquarters & Group Services segment. The average headcount outside of Germany also decreased by 2.4 %, mainly due to the program to reduce the workforce in the United States, which was implemented in the third quarter of 2023. In Europe, we continued to drive forward the socially responsible staff restructuring. The sale of T-Mobile Netherlands as of March 31, 2022 also continued to have an impact. Increased recruitment in the Systems Solutions operating segment had an offsetting effect.

Personnel costs decreased by EUR 0.3 billion year-on-year to EUR 19.1 billion, mainly driven by the United States operating segment, due to the lower headcount, offset by higher restructuring expenses and exchange rate effects. In the Germany and Europe operating segments and in the Group Headquarters & Group Services segment, lower headcounts resulted in a reduction in personnel costs. The agreed salary increases from the collective agreements concluded in 2022 and 2023 in Germany and abroad had an offsetting effect.

## 26 Other operating expenses

millions of €	2023	2022	2021
Impairment losses on financial assets, contract assets, and lease assets	1,149	1,235	637
Gains (losses) from the write-off of financial assets measured at amortized cost	14	24	122
Other	3,856	5,124	3,502
Of which: legal and audit fees	459	784	615
Of which: losses from asset disposals	270	356	267
Of which: income (losses) from the measurement of factoring receivables	0	2	4
Of which: other taxes	586	584	496
Of which: cash and guarantee transaction costs	595	622	547
Of which: insurance expenses	181	169	138
Of which: miscellaneous other operating expenses	1,764	2,606	1,434
Of which: losses resulting from deconsolidations and from the sale of stakes accounted for using the equity method	4	0	70
	<b>5,019</b>	<b>6,383</b>	<b>4,261</b>

Expenses for legal and audit fees in the prior year included, among others, expenses in connection with the proceedings brought in consequence of the cyberattack on T-Mobile US in August 2021. Miscellaneous other operating expenses include expenses of EUR 0.6 billion for data storage in data centers, in cloud applications, or other IT services, and of EUR 0.4 billion for regulatory duties in the United States. Miscellaneous other operating expenses in the prior year included expenses of EUR 0.7 billion in connection with the payment obligations entered into in that period under the agreement to sell the U.S. Wireline Business.

## 27 Depreciation, amortization and impairment losses

The following table provides a breakdown of depreciation, amortization and impairment losses:

millions of €	2023	2022	2021
<b>Amortization and impairment of intangible assets</b>	<b>6,580</b>	<b>6,931</b>	<b>6,621</b>
Of which: impairment losses	101	180	155
Of which: impairment losses on mobile licenses	4	19	4
Of which: amortization of mobile licenses	554	559	606
<b>Depreciation and impairment of property, plant and equipment</b>	<b>11,954</b>	<b>13,603</b>	<b>14,498</b>
Of which: impairment losses	110	668	92
<b>Depreciation and impairment of right-of-use assets</b>	<b>5,441</b>	<b>7,102</b>	<b>5,972</b>
Of which: impairment losses	10	308	37
	<b>23,975</b>	<b>27,635</b>	<b>27,091</b>

Impairment losses break down as follows:

millions of €	2023	2022	2021
<b>Intangible assets</b>	<b>101</b>	<b>180</b>	<b>155</b>
Of which: in connection with the ad hoc impairment tests of assets of the fiber-optic-based fixed network in the United States <sup>a</sup>	0	27	0
Of which: in connection with the ad hoc impairment test in the Systems Solutions cash-generating unit <sup>b</sup>	96	119	140
Of which: in connection with the ad hoc impairment test in the Romania cash-generating unit	0	32	0
<b>Property, plant and equipment</b>	<b>110</b>	<b>668</b>	<b>92</b>
Of which: in connection with the ad hoc impairment tests of assets of the fiber-optic-based fixed network in the United States <sup>a</sup>	28	528	0
Of which: in connection with the ad hoc impairment test in the Systems Solutions cash-generating unit	54	24	60
Of which: in connection with the ad hoc impairment test in the Romania cash-generating unit	0	85	0
<b>Right-of-use assets</b>	<b>10</b>	<b>308</b>	<b>37</b>
Of which: in connection with the ad hoc impairment tests of assets of the fiber-optic-based fixed network in the United States <sup>a</sup>	8	272	0
	<b>221</b>	<b>1,156</b>	<b>284</b>

<sup>a</sup> Arising from the ad hoc impairment test in 2022.

<sup>b</sup> Of the impairment losses, EUR 26 million (2022: EUR 33 million, 2021: EUR 21 million) relates to intangible assets in the Group Headquarters & Group Services segment that are subject to use by the Systems Solutions operating segment and are allocated to the Systems Solutions cash-generating unit for the purposes of impairment testing.

Depreciation, amortization and impairment losses on intangible assets, property, plant and equipment, and right-of-use assets decreased by EUR 3.7 billion year-on-year to EUR 24.0 billion, with the decrease being mainly attributable to the United States operating segment.

Depreciation and amortization decreased by EUR 2.7 billion to EUR 23.8 billion, with the decrease being mainly attributable to the United States operating segment. Depreciation and amortization at T-Mobile US were lower due to the ongoing strategic withdrawal from the terminal equipment lease business. Depreciation and amortization also decreased due to the complete write-off of certain 4G network components, including assets affected by the decommissioning of the former Sprint's legacy CDMA and LTE networks in 2022. The decrease was offset by increased depreciation and amortization in connection with the further build-out of the nationwide 5G network in the United States. In addition, a further reduction in the useful life of leased network technology for cell sites following the business combination of T-Mobile US and Sprint increased depreciation of the corresponding right-of-use assets by EUR 0.2 billion. In the Germany operating segment, depreciation and amortization increased, partly as a result of the sale and leaseback of passive network infrastructure in Germany and Austria in connection with the sale of the GD tower companies and the associated recognition of retained right-of-use assets.

The impairment losses recognized in the reporting year amounted to EUR 0.2 billion and largely related to the Systems Solutions operating segment and the Group Headquarters & Group Services segment. These related to follow-up investments in connection with assets previously impaired in the 2020, 2021, and 2022 financial years. Furthermore, despite the business outlook remaining positive, the increase in the cost of capital in the reporting year prompted further impairment losses to be recognized on non-current assets at the end of 2023. The impairment losses recorded in the prior-year period of EUR 1.2 billion were mainly attributable to the former Sprint's fiber-optic-based wireline assets in the United States operating segment (EUR 0.9 billion). These impairment losses arose in part in connection with the sale of the business agreed in September 2022. Other impairment losses in the prior year related to the Systems Solutions operating segment and Group Headquarters & Group Services segment (EUR 0.1 billion), and to the Europe operating segment (EUR 0.1 billion).

For further information, please refer to Notes 6 "Intangible assets," 7 "Property, plant and equipment," and 8 "Right-of-use assets – lessee relationships."

## 28 Profit/loss from operations

Profit from operations (EBIT) in the Group increased from EUR 15.4 billion to EUR 20.8 billion, up EUR 5.4 billion against the prior year.

For information on the development of EBIT, please refer to the section "Development of business in the Group" in the combined management report.

## 29 Finance costs

millions of €	2023	2022	2021
Interest income	870	387	611
Interest expense	(6,588)	(5,679)	(5,027)
	<b>(5,719)</b>	<b>(5,292)</b>	<b>(4,416)</b>
Of which: from leases	(1,874)	(1,515)	(1,130)
Of which: from financial instruments relating to measurement categories in accordance with IFRS 9			
Debt instruments measured at amortized cost	324	42	176
Debt instruments measured at fair value through profit or loss	251	61	11
Financial liabilities measured at amortized cost <sup>a</sup>	(4,356)	(3,839)	(3,453)

<sup>a</sup> Interest expense calculated according to the effective interest method and adjusted for accrued interest from derivatives recognized in the reporting year that were used as hedging instruments against interest rate-based changes in the fair values of financial liabilities measured at amortized cost in the reporting year for hedge accounting in accordance with IFRS 9 (2023: interest income of EUR 303 million and interest expense of EUR 845 million, 2022: interest income of EUR 273 million and interest expense of EUR 284 million, 2021: interest income of EUR 417 million and interest expense of EUR 284 million).

Finance costs increased from EUR 5.3 billion to EUR 5.7 billion. The EUR 0.9 billion increase in interest expense was mainly due to the sale and leaseback of passive network infrastructure in Germany and Austria in connection with the sale of the GD tower companies, which resulted in an increase in the carrying amounts of the lease liabilities, and due to the reversal of adjustments to carrying amounts in connection with the premature repayment of bonds in fair value hedges. By contrast, interest income increased by EUR 0.5 billion, primarily due to an increase in cash on hand invested in interest-bearing money-market investments, where the returns generated were higher than in 2022. In addition, interest income resulted from the aforementioned premature repayment of bonds below face value, and from the reversal of related cash flow hedges on a pro rata basis.

Interest of EUR 207 million (2022: EUR 125 million, 2021: EUR 211 million) was capitalized as part of acquisition costs in the reporting year. The amount was calculated on the basis of an interest rate in the average range between 3.4 % at the start of the year and 4.2 % at the end of the year (2022: between 3.4 % and 3.4 %, 2021: between 3.6 % and 3.4 %) applied across the Group.



Interest payments (including capitalized interest) of EUR 7.9 billion (2022: EUR 6.9 billion, 2021: EUR 6.4 billion) were made in the reporting year.

Accrued interest payments from derivatives (interest rate swaps) that were designated as hedging instruments in a fair value hedge in accordance with IFRS 9 are netted per swap contract and recognized as interest income or interest expense depending on the net amount. Finance costs are assigned to the measurement categories on the basis of the hedged item. Only financial liabilities were hedged in the reporting period.

### 30 Share of profit/loss of associates and joint ventures accounted for using the equity method

millions of €	2023	2022	2021
Share of profit (loss) of joint ventures	(2,778)	(540)	(34)
Share of profit (loss) of associates	12	15	(68)
	<b>(2,766)</b>	<b>(524)</b>	<b>(102)</b>

The share of profit/loss of associates and joint ventures included in the consolidated financial statements using the equity method decreased by EUR 2.2 billion compared with the prior year to EUR -2.8 billion. The main factor in this was impairment losses recognized in the reporting year of EUR 2.6 billion and EUR 0.1 billion, respectively, on the carrying amounts of the investments in the GD tower companies and in GlasfaserPlus. These impairment losses were due entirely to higher discount rates due to macroeconomic developments in the reporting year. By contrast, the business outlook for the GD tower companies improved slightly.

Level 3 input parameters were used to determine the pro rata recoverable amounts – as fair value less costs of disposal – of EUR 3.4 billion for the GD tower companies and of EUR 0.3 billion for GlasfaserPlus (after deduction of net debt). Discount rates of 7.18 % for the GD tower companies and 5.70 % for GlasfaserPlus were used. The prior year included an interest rate-based impairment loss of EUR 0.5 billion recognized on the carrying amount of the stake in GlasfaserPlus. In the prior year, the recoverable amount was EUR 0.5 billion and the discount rate was 5.37 %.

For further information, please refer to the section “Changes in the composition of the Group and other transactions” under “Summary of accounting policies,” and Note 10 “Investments accounted for using the equity method.”

### 31 Other financial income/expense

millions of €	2023	2022	2021
Income from investments (without share of profit (loss) of associates and joint ventures accounted for using the equity method)	22	5	4
Gains (losses) from financial instruments	170	784	(593)
Interest component from measurement of provisions and liabilities	(536)	590	167
Impairment losses on other financial assets	0	0	(13)
Gains (losses) from the write-off of other financial assets measured at amortized cost	0	0	0
	<b>(345)</b>	<b>1,379</b>	<b>(435)</b>

Other financial income declined from EUR 1.4 billion to a financial expense of EUR 0.3 billion, in particular in connection with the interest component from the measurement of provisions and liabilities. This decrease was mainly attributable to the subsequent measurement using actuarial principles of the present value of the provision recognized for the Civil Service Health Insurance Fund. In the prior year, the measurement was affected by the significant increase in the interest rate level in that period. Gains from financial instruments decreased by EUR 0.6 billion to EUR 0.2 billion.

EUR 129 million (2022: EUR -226 million, 2021: EUR -282 million) of gains/losses from financial instruments related to currency translation effects, and EUR 41 million (2022: EUR 1,010 million, 2021: EUR -310 million) to gains/losses from other derivatives as well as measurements of equity investments.

As a rule, all income/expense components including interest income and expense from financial instruments classified as at fair value through profit or loss in accordance with IFRS 9 are reported under gains/losses from financial instruments.

For further information on financial instruments, please refer to Note 43 “Financial instruments and risk management.”

## 32 Income taxes

### Income taxes in the consolidated income statement

A tax expense of EUR 3.7 billion was recorded in the 2023 financial year. The amount of tax expense essentially reflects the shares of the different countries in profit before income taxes and their respective national tax rates. However, the effective tax rate was increased in particular by an impairment loss on the carrying amounts of the stake in the GD tower companies that had no effect on tax. In the prior-year period, a tax expense of EUR 1.9 billion was recognized on the lower profit/loss before income taxes, which also essentially reflected the respective national tax rates. However, the tax rate was reduced by the realization of non-taxable income from the sale of T-Mobile Netherlands and the shares in GlasfaserPlus.

The following table provides a breakdown of income taxes in Germany and internationally:

millions of €	2023	2022	2021
<b>Current taxes</b>	<b>1,125</b>	<b>1,035</b>	<b>908</b>
Germany	531	603	219
International	594	432	690
<b>Deferred taxes</b>	<b>2,547</b>	<b>902</b>	<b>823</b>
Germany	233	(11)	581
International	2,314	913	242
	<b>3,672</b>	<b>1,937</b>	<b>1,732</b>

Deutsche Telekom's combined income tax rate for 2023 amounts to 31.4 % (2022: 31.4 %, 2021: 31.4 %). It consists of corporate income tax at a rate of 15.0 %, the solidarity surcharge of 5.5 % on corporate income tax, and trade tax at an average multiplier of 445 % (2022: 445 %, 2021: 445 %).

**Reconciliation of the effective tax rate.** Income taxes of EUR -3,672 million (as expense) in the reporting year (2022: EUR -1,937 million (as expense), 2021: EUR -1,732 million (as expense)) are derived as follows from the expected income tax expense/benefit that would have arisen had the statutory income tax rate of the parent company (combined income tax rate) been applied to profit/loss before income taxes:

millions of €	2023	2022	2021
<b>Profit before income taxes</b>	<b>11,968</b>	<b>10,977</b>	<b>7,628</b>
Expected income tax expense (benefit) (Income tax rate applicable to Deutsche Telekom AG: 2023: 31.4 %, 2022: 31.4 %, 2021: 31.4 %)	3,758	3,447	2,395
<b>Adjustments to expected tax expense (benefit)</b>			
Effect of changes in statutory tax rates	30	(16)	(39)
Tax effects from prior years	(30)	(157)	(41)
Tax effects from other income taxes	474	37	(178)
Non-taxable income	(82)	(829)	(106)
Tax effects from equity investments	820	150	27
Non-deductible expenses	86	77	153
Permanent differences	(196)	(309)	73
Goodwill impairment losses	(2)	1	0
Tax effects from loss carryforwards	152	63	(36)
Tax effects from additions to and reductions of local taxes	68	49	53
Adjustment of taxes to different foreign tax rates	(1,406)	(575)	(570)
Other tax effects	0	0	1
<b>Income tax expense (benefit) according to the consolidated income statement</b>	<b>3,672</b>	<b>1,937</b>	<b>1,732</b>
Effective income tax rate	% 31	18	23

### Current income taxes in the consolidated income statement

The following table provides a breakdown of current income taxes:

millions of €	2023	2022	2021
<b>Current income taxes</b>	<b>1,125</b>	<b>1,035</b>	<b>908</b>
Of which: current tax expense	1,178	1,093	914
Of which: prior-period tax expense	(53)	(58)	(5)

### Deferred taxes in the consolidated income statement

Deferred taxes developed as follows:

millions of €	2023	2022	2021
<b>Deferred tax expense (benefit)</b>	<b>2,547</b>	<b>902</b>	<b>823</b>
Of which: from temporary differences	2,146	3,030	1,143
Of which: from loss carryforwards	457	(2,161)	(337)
Of which: from tax credits	(56)	33	17

### Income taxes in the consolidated statement of financial position

#### Current income taxes in the consolidated statement of financial position

millions of €	Dec. 31, 2023	Dec. 31, 2022
Recoverable taxes	214	213
Tax liabilities	(683)	(801)
<b>Current taxes recognized in other comprehensive income:</b>		
Hedging instruments	(276)	(252)

#### Deferred taxes in the consolidated statement of financial position

millions of €	Dec. 31, 2023	Dec. 31, 2022
Deferred tax assets	6,401	8,316
Deferred tax liabilities	(21,918)	(22,800)
	<b>(15,517)</b>	<b>(14,484)</b>
Of which: recognized in other comprehensive income:		
Gains (losses) from the remeasurement of defined benefit plans	553	491
Revaluation surplus	158	142
Hedging instruments	366	272
<b>Recognized in other comprehensive income before non-controlling interests</b>	<b>1,078</b>	<b>905</b>
Non-controlling interests	(148)	(190)
	<b>930</b>	<b>715</b>

#### Development of deferred taxes

millions of €	Dec. 31, 2023	Dec. 31, 2022
Deferred taxes recognized in the statement of financial position	(15,517)	(14,484)
Difference to prior year	(1,033)	(2,581)
Of which: recognized in income statement	(1,738)	(936)
Of which: recognized in other comprehensive income	193	(1,039)
Of which: recognized in capital reserves	16	22
Of which: acquisitions (disposals) (including assets and disposal groups held for sale)	24	48
Of which: currency differences	472	(676)

### Development of deferred taxes on loss carryforwards

millions of €	Dec. 31, 2023	Dec. 31, 2022
Deferred taxes on loss carryforwards before allowances	5,942	6,570
Difference to prior year	(628)	2,380
Of which: recognition (derecognition)	(428)	2,268
Of which: acquisitions (disposals) (including assets and disposal groups held for sale)	(2)	12
Of which: currency differences	(198)	100

Deferred taxes relate to the following key items in the statement of financial position, loss carryforwards, and tax credits:

millions of €	Dec. 31, 2023		Dec. 31, 2022	
	Deferred tax assets	Deferred tax liabilities	Deferred tax assets	Deferred tax liabilities
<b>Current assets</b>	<b>1,734</b>	<b>(1,618)</b>	<b>2,541</b>	<b>(1,467)</b>
Trade receivables	593	(152)	1,577	(51)
Inventories	273	0	173	0
Other assets	867	(448)	782	(428)
Contract assets	1	(1,018)	8	(988)
<b>Non-current assets</b>	<b>3,669</b>	<b>(38,240)</b>	<b>3,654</b>	<b>(38,396)</b>
Intangible assets	964	(21,200)	613	(21,506)
Property, plant and equipment	825	(7,379)	907	(6,599)
Other financial assets	1,879	(9,197)	2,132	(9,872)
Capitalized contract costs	1	(464)	2	(418)
<b>Current liabilities</b>	<b>1,877</b>	<b>(1,363)</b>	<b>2,234</b>	<b>(1,435)</b>
Financial liabilities	486	(223)	568	(138)
Trade and other payables	188	(68)	115	(18)
Other provisions	435	(178)	557	(200)
Other liabilities	688	(660)	906	(961)
Contract liabilities	80	(234)	88	(118)
<b>Non-current liabilities</b>	<b>14,845</b>	<b>(3,690)</b>	<b>14,845</b>	<b>(3,762)</b>
Financial liabilities	2,929	(1,426)	3,254	(1,510)
Provisions for pensions and other employee benefits	1,687	(1,823)	1,642	(1,798)
Other provisions	896	(242)	855	(253)
Other liabilities	9,235	(119)	8,998	(125)
Contract liabilities	98	(80)	96	(76)
<b>Retained earnings</b>	<b>8</b>	<b>(144)</b>	<b>8</b>	<b>(181)</b>
<b>Tax credits</b>	<b>395</b>	<b>0</b>	<b>337</b>	<b>0</b>
<b>Loss carryforwards</b>	<b>5,418</b>	<b>0</b>	<b>6,026</b>	<b>0</b>
<b>Interest and other carryforwards</b>	<b>1,592</b>	<b>0</b>	<b>1,111</b>	<b>0</b>
<b>Total</b>	<b>29,538</b>	<b>(45,055)</b>	<b>30,756</b>	<b>(45,240)</b>
Of which: non-current	26,490	(42,036)	26,517	(42,261)
Netting	(23,137)	23,137	(22,440)	22,440
<b>Recognition</b>	<b>6,401</b>	<b>(21,918)</b>	<b>8,316</b>	<b>(22,800)</b>

The loss carryforwards amount to:

millions of €	Dec. 31, 2023	Dec. 31, 2022
<b>Loss carryforwards for corporate income tax purposes</b>	<b>22,161</b>	<b>25,346</b>
Expiry within		
1 year	5	0
2 years	3	5
3 years	4	2
4 years	18	4
5 years	7	21
After 5 years	1,155	1,479
Unlimited carryforward period	20,970	23,835

Loss carryforwards and temporary differences for which no deferred taxes were recorded amount to:

millions of €	Dec. 31, 2023	Dec. 31, 2022
<b>Loss carryforwards for corporate income tax purposes</b>	<b>1,618</b>	<b>1,722</b>
Expiry within		
1 year	0	0
2 years	0	5
3 years	0	2
4 years	14	4
5 years	0	18
After 5 years	845	923
Unlimited carryforward period	758	770
<b>Temporary differences in corporate income tax</b>	<b>348</b>	<b>492</b>

In addition, no deferred taxes are recognized on trade tax loss carryforwards of EUR 145 million (December 31, 2022: EUR 145 million) and on temporary differences for trade tax purposes in the amount of EUR 5 million (December 31, 2022: EUR 3 million). Furthermore, apart from corporate income tax loss carryforwards, no deferred taxes amounting to EUR 152 million (December 31, 2022: EUR 140 million) were recognized for other foreign income tax loss carryforwards and, apart from temporary differences for trade tax purposes, no deferred taxes amounting to EUR 1 million (December 31, 2022: EUR 5 million) were recognized for other foreign income taxes.

No deferred tax assets were recognized on the aforementioned tax loss carryforwards and temporary differences as it is not probable that taxable profit will be available in the foreseeable future against which these tax loss carryforwards can be utilized.

A positive tax effect in the amount of EUR 3 million (2022: EUR 3 million, 2021: EUR 3 million) attributable to the utilization of tax loss carryforwards on which deferred tax assets had not yet been recognized was recorded in the reporting year.

The write-up of deferred tax assets resulted in a positive effect of EUR 24 million in the reporting year (2022: EUR 47 million).

No deferred tax liabilities were recognized on temporary differences in connection with equity interests in subsidiaries amounting to EUR 685 million (December 31, 2022: EUR 543 million) as it is unlikely that these differences will be recognized in the near future.

Deferred tax assets on temporary differences of EUR 170 million, attributable to accumulated allowances on equity investments in the Europe operating segment, were recognized, of which EUR 130 million related to potential sales of equity investments. These deferred tax assets were written off in full (measurement adjustment), since the probability of the temporary differences being reversed in the near future cannot be reliably determined.

**Disclosure of tax effects relating to each component of other comprehensive income**

millions of €

	2023			2022			2021		
	Before tax amount	Tax (expense) benefit	Net of tax amount	Before tax amount	Tax (expense) benefit	Net of tax amount	Before tax amount	Tax (expense) benefit	Net of tax amount
<b>Items not subsequently reclassified to profit or loss (not recycled)</b>									
Gains (losses) from the remeasurement of defined benefit plans	18	61	79	1,841	(839)	1,002	1,426	(256)	1,170
Gains (losses) from the remeasurement of equity instruments	(70)	2	(67)	(46)	5	(41)	112	(5)	107
Share of profit (loss) of investments accounted for using the equity method	0	0	0	0	0	0	0	0	0
	<b>(52)</b>	<b>63</b>	<b>12</b>	<b>1,796</b>	<b>(835)</b>	<b>961</b>	<b>1,538</b>	<b>(261)</b>	<b>1,278</b>
<b>Items subsequently reclassified to profit or loss (recycled), if certain reasons are given</b>									
Exchange differences on translating foreign operations									
Recognition of other comprehensive income in income statement	4	0	4	0	0	0	61	0	61
Change in other comprehensive income (not recognized in income statement)	(2,094)	0	(2,094)	4,071	0	4,071	5,142	0	5,142
Gains (losses) from the remeasurement of debt instruments									
Recognition of other comprehensive income in income statement	921	(18)	902	1,037	3	1,040	417	(36)	381
Change in other comprehensive income (not recognized in income statement)	(838)	(17)	(855)	(1,060)	21	(1,039)	(497)	64	(433)
Gains (losses) from hedging instruments (IAS 39 until December 2017, designated risk component)									
Recognition of other comprehensive income in income statement	(33)	21	(12)	123	(28)	95	17	3	20
Change in other comprehensive income (not recognized in income statement)	(251)	75	(176)	762	(242)	520	296	(92)	204
Gains (losses) from hedging instruments (IFRS 9 from January 2018, hedging costs)									
Recognition of other comprehensive income in income statement	1	0	1	1	0	1	2	(1)	1
Change in other comprehensive income (not recognized in income statement)	(25)	8	(17)	(51)	16	(35)	60	(19)	41
Share of profit (loss) of investments accounted for using the equity method									
Recognition of other comprehensive income in income statement	(4)	0	(4)	0	0	0	0	0	0
Change in other comprehensive income (not recognized in income statement)	(22)	0	(22)	0	0	0	0	0	0
	<b>(2,342)</b>	<b>69</b>	<b>(2,273)</b>	<b>4,884</b>	<b>(231)</b>	<b>4,654</b>	<b>5,498</b>	<b>(81)</b>	<b>5,417</b>
<b>Other comprehensive income</b>	<b>(2,394)</b>	<b>132</b>	<b>(2,262)</b>	<b>6,680</b>	<b>(1,065)</b>	<b>5,615</b>	<b>7,036</b>	<b>(342)</b>	<b>6,694</b>
Profit (loss)			21,992			9,482			6,103
<b>Total comprehensive income</b>			<b>19,730</b>			<b>15,097</b>			<b>12,798</b>

**Disclosures on global minimum level of taxation**

In Germany, the Act implementing the Directive (EU) 2022/2523 on ensuring a global minimum level of taxation and further accompanying measures enacted legal regulations to ensure a global minimum level of taxation (Mindeststeuergesetz – MinStG, OECD Pillar Two Model Rules). In other countries in which Deutsche Telekom operates, in particular in the European Union, corresponding laws on global minimum taxation have also either already been enacted or are in the process of being implemented.

Deutsche Telekom will fall within the scope of the MinStG (German Minimum Tax Act) from the 2024 financial year, which is why there was no actual tax expense under this Act as of the reporting date. Furthermore, Deutsche Telekom is making use of the exemption provided in IAS 12.4A, under which no deferred taxes are to be recognized in connection with the global minimum level of taxation.

Owing to the complexity of the regulations and the fact that many states have yet to complete the legislative process, it is not possible at the present time to reliably determine the exact amount of the future tax burden. The expected future burden from minimum taxation was therefore evaluated based on the information available at the reporting date (historical data and projections). Deutsche Telekom expects an additional burden for the Group in 2024 due to subsequent taxation (e.g., on earnings from operations in North Macedonia) under the provisions of the Minimum Tax Act or the local minimum taxation laws of other countries to amount to less than EUR 1 million.

### 33 Profit/loss after taxes from discontinued operation

The sale of the GD tower companies was consummated on February 1, 2023. Since then, these companies are no longer included as fully consolidated subsidiaries in the consolidated financial statements. The development presented contains the contributions for the first month of 2023.

The following table provides a breakdown of profit/loss after taxes from the discontinued operation:

millions of €	2023	2022	2021
<b>Net revenue</b>	<b>15</b>	<b>216</b>	<b>201</b>
Other operating income	12,926	20	(1)
Changes in inventories	0	9	1
Own capitalized costs	0	25	27
Goods and services purchased	69	756	718
Personnel costs	(6)	(75)	(69)
Other operating expenses	0	(14)	(10)
<b>EBITDA</b>	<b>13,004</b>	<b>937</b>	<b>868</b>
Depreciation, amortization and impairment losses	0	(192)	(391)
<b>Profit (loss) from operations (EBIT)</b>	<b>13,004</b>	<b>745</b>	<b>477</b>
Finance costs	(14)	(42)	(185)
Share of profit (loss) of associates and joint ventures accounted for using the equity method	0	2	0
Other financial income (expense)	(2)	21	(2)
<b>Profit (loss) from financial activities</b>	<b>(16)</b>	<b>(18)</b>	<b>(186)</b>
<b>Profit before income taxes</b>	<b>12,989</b>	<b>727</b>	<b>290</b>
Income taxes	708	(284)	(83)
<b>Profit (loss) after taxes from discontinued operation</b>	<b>13,696</b>	<b>443</b>	<b>207</b>

Value contributions by GD tower companies are presented separately in the income statement of the discontinued operation. Since Deutsche Telekom largely continues to use the sold passive network infrastructure after consummation of the transaction effective February 1, 2023, the intragroup eliminations of income and expenses between discontinued and continuing operations are disclosed at the level of the discontinued operation. So, for example, goods and services purchased include eliminations of intragroup onward charging of purchased services of GD tower companies mainly to Telekom Deutschland GmbH. In this way, the net effect is that internal cost allocations are no longer included in Deutsche Telekom's consolidated financial statements. Due to continuing contractual relationships, the corresponding expenses for purchased services are also incurred after the sale of the GD tower companies.

Other operating income of EUR 12.9 billion relates to the deconsolidation gain realized from the loss of control over the GD tower companies. Income from income taxes resulted from deferred tax effects arising in connection with the concluded sale-and-leaseback transaction.

For further information on the sale of the GD tower companies, please refer to the section "Changes in the composition of the Group and other transactions."

### 34 Profit/loss attributable to non-controlling interests

millions of €	2023	2022	2021
T-Mobile US	3,803	1,146	1,408
Hrvatski Telekom	61	39	38
Hellenic Telecommunications Organization (OTE)	246	193	337
Magyar Telekom	85	71	73
T-Mobile Netherlands Holding B.V.	0	33	75
Other	8	0	(4)
	<b>4,204</b>	<b>1,481</b>	<b>1,927</b>

### 35 Dividend per share

For the 2023 financial year, the Board of Management of Deutsche Telekom AG proposes to the shareholders' meeting a dividend of EUR 0.77 for each no par value share carrying dividend rights. On the basis of this payout volume, total dividends in the amount of EUR 3.8 billion would be appropriated to the no par value shares carrying dividend rights as of February 13, 2024. The final amount of the total dividend payment depends on the number of no par value shares carrying dividend rights as of the date of the resolution on the appropriation of net income as adopted on the day of the shareholders' meeting.

A dividend of EUR 0.70 for the 2022 financial year for each no par value share carrying dividend rights was paid out in 2023.

### 36 Earnings per share

Basic and diluted earnings per share are calculated in accordance with IAS 33 as follows:

		2023	2022	2021
Profit (loss) from continuing operations attributable to the owners of the parent (net profit (loss))	millions of €	4,092	7,558	3,969
Profit (loss) from discontinued operation attributable to the owners of the parent (net profit (loss))	millions of €	13,696	443	207
<b>Profit (loss) attributable to the owners of the parent (net profit (loss))</b>	millions of €	<b>17,788</b>	<b>8,001</b>	<b>4,176</b>
Average number of ordinary shares issued	millions	4,986	4,986	4,831
Average number of treasury shares	millions	(1)	(14)	(17)
<b>Adjusted weighted average number of ordinary shares outstanding (basic and diluted)</b>	millions	<b>4,976</b>	<b>4,972</b>	<b>4,813</b>
<b>Earnings per share from continuing operations (basic and diluted)</b>	€	<b>0.82</b>	<b>1.52</b>	<b>0.82</b>
<b>Earnings per share from discontinued operation (basic and diluted)</b>	€	<b>2.75</b>	<b>0.09</b>	<b>0.04</b>
<b>Earnings per share (basic and diluted)</b>	€	<b>3.57</b>	<b>1.61</b>	<b>0.87</b>

The calculation of earnings per share (basic and diluted) is based on the time-weighted number of all ordinary shares outstanding. Furthermore, the weighted average number of ordinary shares outstanding is determined by deducting the weighted average number of treasury shares held by Deutsche Telekom AG. There are currently no significant diluting effects.

## Other disclosures

### 37 Notes to the consolidated statement of cash flows

#### Net cash from operating activities

Net cash from operating activities increased by EUR 1.5 billion year-on-year to EUR 37.3 billion. This positive trend is attributable to sound business development. Lower cash outflows in connection with the integration of Sprint in the United States also had a positive effect. However, net cash from operating activities was negatively impacted by the sale of T-Mobile Netherlands and the GD tower companies, as well as by exchange rate effects. The increase in tax payments of EUR 0.4 billion and the increase in net interest payments of EUR 0.1 billion also had a reducing effect.

Deutsche Telekom defines operating working capital as the total of trade receivables, inventories, and trade and other payables. The positive effect on the change in assets carried as operating working capital is mainly attributable to the strategic withdrawal from the terminal equipment lease business in the United States operating segment and the associated decline in receivables from terminal equipment leasing. Furthermore, there is a positive year-on-year effect from the completed migration of former Sprint customers to the T-Mobile US network, which meant there was a smaller increase in receivables under the Equipment Installment Plan in the reporting year than in the prior year. Moreover, the prior year included a negative effect from the increase in receivables as a result of the planned termination of factoring agreements in the Germany operating segment. By contrast, there was a positive effect in the prior year from the greater reduction of stock levels of terminal equipment in the United States operating segment, which was primarily driven by the impending market launch of new models and the warehouse closures at former Sprint sites. The negative effect on the change in liabilities carried as operating working capital mainly resulted from a lower procurement volume in the reporting year, especially in the United States operating segment.

For further information on individual assets carried as working capital, please refer to Note 2 "[Trade receivables](#)" and Note 4 "[Inventories](#)."

For further information, please refer to Note 14 "[Trade and other payables](#)."



### Net cash used in/from investing activities

millions of €

	2023	2022	2021
Cash outflows for investments in intangible assets	(5,560)	(7,551)	(12,749)
Cash outflows for investments in property, plant and equipment	(12,306)	(16,563)	(13,616)
Proceeds from the disposal of property, plant and equipment, and intangible assets	205	439	116
Payments for publicly funded investments in the broadband build-out	(338)	(377)	(436)
Proceeds from public funds for investments in the broadband build-out	444	435	420
Net cash flows for collateral deposited and hedging transactions	(448)	(2,346)	89
Changes in cash and cash equivalents in connection with the acquisition of Shentel at T-Mobile US	0	0	(1,588)
Other changes in cash and cash equivalents in connection with the acquisition of control of subsidiaries and associates	(4)	(52)	(29)
Changes in cash and cash equivalents in connection with the sale of the 51 % stake in the GD tower companies <sup>a</sup>	7,599	0	0
Changes in cash and cash equivalents in connection with the sale of the 75 % stake in T-Mobile Netherlands <sup>b</sup>	0	3,642	0
Changes in cash and cash equivalents in connection with the sale of the 50 % stake in GlasfaserPlus <sup>c</sup>	0	432	0
Changes in cash and cash equivalents in connection with the loss of control over DIV II <sup>d</sup>	0	108	0
Changes in cash and cash equivalents in connection with the contribution of the stake in T-Mobile Infra into Cellnex Netherlands <sup>e</sup>	0	0	135
Changes in cash and cash equivalents in connection with the sale of the stake in Telekom Romania Communications <sup>f</sup>	0	0	202
Changes in cash and cash equivalents in connection with the sale of T-Mobile US' fiber-optic-based Wireline Business <sup>g</sup>	13	0	0
Other changes in cash and cash equivalents in connection with the loss of control of subsidiaries and associates	17	26	37
Other	165	(499)	16
<b>Net cash (used in) from investing activities</b>	<b>(10,213)</b>	<b>(22,306)</b>	<b>(27,403)</b>
Of which: from discontinued operation	(17)	(277)	(296)

<sup>a</sup> Includes, in addition to the cash inflow of EUR 7,696 million for the sale of the 51 % stake, outflows of cash and cash equivalents in the amount of EUR 97 million.

<sup>b</sup> Includes, in addition to the cash inflow for the sale of the business operation of EUR 3,671 million, outflows of cash and cash equivalents in the amount of EUR 29 million.

<sup>c</sup> Includes, in addition to the cash inflow of EUR 441 million for the sale of the 50 % stake, outflows of cash and cash equivalents in the amount of EUR 9 million.

<sup>d</sup> Includes, in addition to the cash inflow of EUR 111 million in connection with the loss of control, outflows of cash and cash equivalents in the amount of EUR 3 million.

<sup>e</sup> Includes, in addition to the cash inflow for the sale of the business operation of EUR 113 million (cash inflow of EUR 118 million less outflows of cash and cash equivalents of EUR 5 million), the cash inflow from the sale-and-leaseback transaction of EUR 23 million.

<sup>f</sup> Includes, in addition to the cash inflow for the sale of the business operation of EUR 292 million, outflows of cash and cash equivalents in the amount of EUR 89 million.

<sup>g</sup> Includes, in addition to the cash inflow of EUR 56 million for the sale of the Wireline Business, outflows of cash and cash equivalents in the amount of EUR 43 million.

At EUR 17.9 billion, cash outflows for investments in intangible assets and property, plant and equipment were EUR 6.2 billion lower than in the prior year. In the United States operating segment, mobile spectrum licenses were acquired for a total of EUR 1.0 billion (of which EUR 0.1 billion for FCC licenses) and in the Europe operating segment, mobile spectrum licenses were acquired for a total of EUR 0.3 billion in the reporting period. In the prior year, this item had included cash outflows for the acquisition of mobile spectrum licenses of EUR 3.0 billion in the United States operating segment and of EUR 0.1 billion in the Europe operating segment. Excluding investments in mobile spectrum licenses, cash outflows for investments in intangible assets and property, plant and equipment were down EUR 4.4 billion year-on-year. Cash outflows in the United States operating segment decreased by EUR 4.3 billion, in particular due to higher cash outflows for investments in the prior year as a result of the accelerated build-out of the 5G network and the integration of Sprint. Cash outflows also decreased year-on-year as a result of the sale of the business entities GD tower companies and T-Mobile Netherlands. By contrast, cash outflows increased by EUR 0.2 billion in the Germany operating segment, mainly in connection with the fiber-optic build-out.

The contractually promised government grants from publicly funded projects for the broadband build-out in Germany were recognized in full as receivables. They reduce the cost of the relevant property, plant and equipment. The grants received and payments made for the build-out continue to be recognized in net cash used in/from investing activities; however, they are not part of cash capex, because the payments made do not result in additions to property, plant and equipment. Since the payments are not made at the same point in time as the proceeds are received, the net amounts can be positive or negative in the individual periods.

Interest payments (including capitalized interest) of EUR 7.9 billion (2022: EUR 6.9 billion, 2021: EUR 6.4 billion) were made in the 2023 financial year. Capitalized interest of EUR 0.2 billion (2022: EUR 0.1 billion, 2021: EUR 0.2 billion) was reported within cash capex in net cash used in/from investing activities, together with the associated assets.

### Net cash used in/from financing activities

millions of €	2023	2022	2021
Repayment of bonds	(9,464)	(6,127)	(10,430)
Dividend payments (including to other shareholders of subsidiaries)	(4,027)	(3,385)	(3,145)
Repayment of financial liabilities from financed capex and opex	0	0	(108)
Repayment of EIB loans	(333)	(523)	(1,093)
Net cash flows for hedging transactions	14	121	0
Principal portion of repayment of lease liabilities	(5,904)	(4,951)	(6,458)
Repayment of financial liabilities for media broadcasting rights	(375)	(387)	(338)
Cash flows from continuing involvement factoring, net	3	24	(72)
Loans taken out with the EIB	0	749	0
Issuance of bonds	7,880	3,783	12,678
Commercial paper, net	(2,280)	2,280	0
Overnight borrowings from banks	(200)	209	0
Repayment of liabilities from 5G spectrum acquired in Germany	(195)	(195)	(195)
Repayment of liabilities from 5G spectrum acquired in the Netherlands	0	0	(204)
Repayment of liabilities with the right of creditors to priority repayment in the event of default	(742)	(500)	(888)
Changes in cash and cash equivalents in connection with the sale and leaseback of the passive network infrastructure of the GD tower companies	3,069	0	0
Changes in cash and cash equivalents in connection with the sale and leaseback of the passive mobile infrastructure of T-Mobile Infra	0	0	242
<b>Cash inflows from transactions with non-controlling entities</b>			
T-Mobile US stock options	11	7	9
Cellnex Netherlands capital contributions	0	17	4
Other cash inflows	19	6	1
	<b>30</b>	<b>29</b>	<b>14</b>
<b>Cash outflows from transactions with non-controlling entities</b>			
Increase of the stake in T-Mobile US	0	(2,210)	0
T-Mobile US share buy-backs/share-based payment	(12,381)	(3,196)	(261)
OTE share buy-back	(177)	(294)	(190)
Other payments	(171)	(124)	(54)
	<b>(12,730)</b>	<b>(5,823)</b>	<b>(506)</b>
Other	(281)	(743)	(276)
<b>Net cash (used in) from financing activities</b>	<b>(25,534)</b>	<b>(15,438)</b>	<b>(10,779)</b>
Of which: from discontinued operation	(74)	(192)	(193)

### Non-cash transactions in the consolidated statement of cash flows

In the reporting period, Deutsche Telekom leased assets totaling EUR 6.2 billion, mainly network equipment, cell sites, and land and buildings. As a result, these assets are recognized in the statement of financial position under right-of-use assets and the related liabilities under lease liabilities. Future repayments of the liabilities will be recognized in net cash used in/from financing activities. In the prior-year period, EUR 6.6 billion had related to the modification of the arrangements with Crown Castle, resulting in an increase in the same amount in the carrying amount of the right-of-use assets and the lease liabilities. Excluding this effect, asset leases were up EUR 1.7 billion against the prior-year period, mainly due to the leaseback of passive network infrastructure in Germany and Austria under the sale-and-leaseback agreement in connection with the sale of the GD tower companies. In the United States operating segment, asset leases were down slightly year-on-year, mainly due to synergies from the decommissioning of Sprint's old mobile network and the associated lower lease liabilities for network technology.

Consideration for the acquisition of broadcasting rights is paid by Deutsche Telekom in accordance with the terms of the contract on the date of its conclusion or spread over the term of the contract. Financial liabilities of EUR 0.3 billion were recognized in the 2023 financial year for future consideration for acquired broadcasting rights (2022: EUR 0.5 billion). The payment of the consideration will be recognized in net cash used in/from financing activities.

In the United States operating segment, EUR 0.1 billion was recognized for mobile terminal equipment under property, plant and equipment in the reporting period (prior-year period: EUR 0.3 billion). This relates to the terminal equipment lease model at T-Mobile US, under which customers do not purchase the devices but lease them. The cash outflows are presented under net cash from operating activities. The decline was primarily due to the strategic withdrawal from the terminal equipment lease model.

In accordance with a supplementary agreement closed between T-Mobile US, SoftBank, and Deutsche Telekom in the course of the merger of T-Mobile US and Sprint, T-Mobile US issued 48,751,557 shares of common stock in T-Mobile US to SoftBank in the reporting year.

For further information on the transfer of T-Mobile US shares to SoftBank, please refer to the section "Summary of accounting policies" under "Changes in the composition of the Group and other transactions."

The carrying amounts of the financial liabilities associated with net cash used in/from financing activities, divided into carrying amount changes having and not having an effect on cash flows, developed as follows in the reporting year:

millions of €				
	As of Jan. 1, 2023	Of which: payments to be disclosed in net cash used in/from financing activities <sup>a</sup>	Total carrying amount changes having an effect on cash flows	Changes in the composition of the Group
Bonds and other securitized liabilities	93,802	93,802	(3,929)	0
Liabilities to banks	4,122	3,732	(625)	0
	<b>97,924</b>	<b>97,534</b>	<b>(4,554)</b>	<b>0</b>
Liabilities with the right of creditors to priority repayment in the event of default	2,925	2,925	(694)	0
Other interest-bearing liabilities	7,526	6,831	2,025	33
Liabilities from deferred interest	999	0	0	0
Other non-interest-bearing liabilities	769	22	32	0
Derivative financial liabilities	2,889	165	(63)	0
	<b>15,107</b>	<b>9,943</b>	<b>1,300</b>	<b>33</b>
<b>Financial liabilities</b>	<b>113,030</b>	<b>107,477</b>	<b>(3,254)</b>	<b>33</b>
<b>Lease liabilities</b>	<b>38,792</b>	<b>38,792</b>	<b>(5,904)</b>	<b>(1)</b>
<b>Derivative financial assets</b>	<b>2,273</b>	<b>123</b>	<b>(121)</b>	<b>0</b>

<sup>a</sup> Deutsche Telekom exercised the option pursuant to IAS 7.33 and presented interest paid and interest received under net cash from operating activities.

millions of €							
Carrying amount changes not having an effect on cash flows							
	Currency translation	Fair value	Carrying amount changes according to the effective interest method	Other	Total carrying amount changes not having an effect on cash flows	Carrying amount on Dec. 31, 2023 of the payments to be disclosed in net cash from/used in financing activities <sup>a</sup>	As of Dec. 31, 2023
Bonds and other securitized liabilities	(2,440)	664	(283)	(40)	(2,099)	87,773	87,773
Liabilities to banks	0	48	42	0	90	3,196	3,560
	<b>(2,440)</b>	<b>712</b>	<b>(241)</b>	<b>(40)</b>	<b>(2,009)</b>	<b>90,969</b>	<b>91,333</b>
Liabilities with the right of creditors to priority repayment in the event of default	(82)	0	(35)	(46)	(163)	2,067	2,067
Other interest-bearing liabilities	(135)	0	181	(2,886)	(2,807)	6,049	6,628
Liabilities from deferred interest	0	0	0	0	0	0	1,009
Other non-interest-bearing liabilities	(8)	0	0	0	(8)	46	921
Derivative financial liabilities	0	360	0	0	360	462	2,564
	<b>(225)</b>	<b>360</b>	<b>146</b>	<b>(2,932)</b>	<b>(2,618)</b>	<b>8,624</b>	<b>13,189</b>
<b>Financial liabilities</b>	<b>(2,665)</b>	<b>1,072</b>	<b>(95)</b>	<b>(2,972)</b>	<b>(4,627)</b>	<b>99,593</b>	<b>104,522</b>
<b>Lease liabilities</b>	<b>(1,130)</b>	<b>0</b>	<b>0</b>	<b>9,036</b>	<b>7,905</b>	<b>40,792</b>	<b>40,792</b>
<b>Derivative financial assets</b>	<b>0</b>	<b>150</b>	<b>0</b>	<b>0</b>	<b>150</b>	<b>152</b>	<b>1,780</b>

<sup>a</sup> Deutsche Telekom exercised the option pursuant to IAS 7.33 and presented interest paid and interest received under net cash from operating activities.

Total carrying amount changes having an effect on cash flows of EUR -9.0 billion reported in net cash used in/from financing activities deviate from net cash used in/from financing activities due in particular to the dividend entitlements of Deutsche Telekom AG's shareholders having an effect on cash flows, the interest paid in connection with financial liabilities reported in cash generated from operations, and the changes in non-controlling interests having an effect on cash flows. The other carrying amount changes in lease liabilities not having an effect on cash flows are mainly attributable to additions in connection with the recognition of right-of-use assets. The other carrying amount changes in financial liabilities not having an effect on cash flows include additions of EUR 0.3 billion for the acquisition of broadcasting rights.

In the 2023 financial year, Deutsche Telekom made total interest payments of EUR 7.9 billion to service interest obligations. This figure includes interest payments for derivative and non-derivative financial liabilities, interest payments for lease liabilities, and interest payments recognized under intangible assets and property, plant and equipment. The above reconciliation only shows the carrying amounts of the financial liabilities, lease liabilities, and derivative financial assets allocated to net cash used in/from financing activities.

For further information, please refer to the previous section "Non-cash transactions in the consolidated statement of cash flows."

The carrying amounts of the financial liabilities disclosed in net cash used in/from financing activities, divided into carrying amount changes having and not having an effect on cash flows, developed as follows in 2022:

	As of Jan. 1, 2022	Of which: payments to be disclosed in net cash used in/from financing activities <sup>a</sup>	Total carrying amount changes having an effect on cash flows	Changes in the composition of the Group
Bonds and other securitized liabilities	93,857	93,857	(850)	0
Liabilities to banks	4,003	3,640	227	0
	<b>97,860</b>	<b>97,497</b>	<b>(623)</b>	<b>0</b>
Liabilities with the right of creditors to priority repayment in the event of default	3,248	3,248	285	0
Other interest-bearing liabilities	7,826	6,567	(1,303)	1
Liabilities from deferred interest <sup>b</sup>	1,012	0	0	0
Other non-interest-bearing liabilities <sup>b</sup>	816	187	26	(190)
Derivative financial liabilities	703	179	(5)	0
	<b>13,607</b>	<b>10,181</b>	<b>(997)</b>	<b>(189)</b>
<b>Financial liabilities</b>	<b>111,466</b>	<b>107,678</b>	<b>(1,620)</b>	<b>(189)</b>
<b>Lease liabilities</b>	<b>33,133</b>	<b>33,133</b>	<b>(4,951)</b>	<b>0</b>
<b>Derivative financial assets</b>	<b>2,762</b>	<b>(324)</b>	<b>(114)</b>	<b>0</b>

<sup>a</sup> Deutsche Telekom exercised the option pursuant to IAS 7.33 and presented interest paid and interest received under net cash from operating activities.

<sup>b</sup> Liabilities from deferred interest include outstanding interest payments on non-derivative financial liabilities that are economically allocable to the financial year, but which have not yet been paid due to the fact that the interest payment date is in the future. In the interests of transparency, these liabilities will be presented separately from the 2022 reporting year onward. Prior-year comparatives were adjusted retrospectively.

millions of €

	Carrying amount changes not having an effect on cash flows					Carrying amount on Dec. 31, 2022 of the payments to be disclosed in net cash used in/from financing activities <sup>a</sup>	As of Dec. 31, 2022
	Currency translation	Fair value	Carrying amount changes according to the effective interest method	Other	Total carrying amount not having an effect on cash flows		
Bonds and other securitized liabilities	3,908	(3,458)	(329)	675	796	93,802	93,802
Liabilities to banks	11	(174)	28	0	(135)	3,732	4,122
	<b>3,919</b>	<b>(3,632)</b>	<b>(301)</b>	<b>675</b>	<b>661</b>	<b>97,534</b>	<b>97,924</b>
Liabilities with the right of creditors to priority repayment in the event of default	146	0	(30)	(725)	(609)	2,925	2,925
Other interest-bearing liabilities	121	0	167	1,278	1,567	6,831	7,526
Liabilities from deferred interest <sup>b</sup>	0	0	0	0	0	0	999
Other non-interest-bearing liabilities <sup>b</sup>	0	0	0	0	(190)	22	769
Derivative financial liabilities	0	(10)	0	0	(10)	165	2,889
	<b>267</b>	<b>(10)</b>	<b>137</b>	<b>553</b>	<b>758</b>	<b>9,943</b>	<b>15,107</b>
<b>Financial liabilities</b>	<b>4,186</b>	<b>(3,642)</b>	<b>(164)</b>	<b>1,228</b>	<b>1,419</b>	<b>107,477</b>	<b>113,030</b>
<b>Lease liabilities</b>	<b>2,128</b>	<b>0</b>	<b>0</b>	<b>8,481</b>	<b>10,609</b>	<b>38,792</b>	<b>38,792</b>
<b>Derivative financial assets</b>	<b>0</b>	<b>561</b>	<b>0</b>	<b>0</b>	<b>561</b>	<b>123</b>	<b>2,273</b>

<sup>a</sup> Deutsche Telekom exercised the option pursuant to IAS 7.33 and presented interest paid and interest received under net cash from operating activities.

<sup>b</sup> Liabilities from deferred interest include outstanding interest payments on non-derivative financial liabilities that are economically allocable to the financial year, but which have not yet been paid due to the fact that the interest payment date is in the future. In the interests of transparency, these liabilities will be presented separately from the 2022 reporting year onward. Prior-year comparatives were adjusted retrospectively.

### 38 Segment reporting

Deutsche Telekom reports on five operating segments, as well as on the Group Headquarters & Group Services segment. Three operating segments are distinguished by region (Germany, United States, Europe), one by customers and products (Systems Solutions), and another by tasks (Group Development). For three operating segments, business activities are assigned by customer and product (Germany, Systems Solutions, United States), while one operating segment allocates its activities on a regional basis (Europe) and another allocates them by equity investment (Group Development).

The **Germany** operating segment comprises all fixed-network and mobile business activities for consumers and business customers, including separate sales entities in Germany to allow a customer-centric sales approach. The Wholesale business delivers wholesale telecommunication services for third-party telecommunications companies. Build-out of the mobile and fixed networks in Germany is managed by the Technology business unit.

The **United States** operating segment combines all mobile activities in the U.S. market. T-Mobile US offers services, terminal equipment, and accessories for consumers. In addition, the company sells devices to dealers and other third-party distributors for resale. In addition to wireless communications services, T-Mobile US also provides complementary products, including high-speed internet, device protection, and wireline communication services.

The **Europe** operating segment comprises all fixed-network and mobile operations of the national companies in Greece, Hungary, Poland, the Czech Republic, Croatia, Slovakia, Austria, North Macedonia, and Montenegro. In Romania, Deutsche Telekom is focused on mobile operations. Besides traditional B2C fixed-network and mobile business, most of the national companies also offer ICT solutions for business customers.

The **Systems Solutions** operating segment offers a product and solution portfolio focused on business customers under the T-Systems brand. With its offerings for advisory services, cloud computing, and digitalization solutions, T-Systems addresses growth areas in the IT market. Data sovereignty and security solutions are at the core of the product options, supplemented with strategic partnerships. The services penetrate deep into the value chains of selected industries (automotive, healthcare, public sector, and transportation).

The goal of the **Group Development** operating segment is to actively manage entities and equity investments to grow their value. In this context, 51.0 % of the shares in the cell tower business companies in Germany and Austria (GD tower companies) were sold on February 1, 2023. The investment management group Deutsche Telekom Capital Partners; Comfort Charge, which is a provider of e-mobility charging infrastructure; and the Group functions of Mergers & Acquisitions and strategic Portfolio Management are also assigned to Group Development.

The **Group Headquarters & Group Services** segment comprises all Group units that cannot be allocated directly to one of the operating segments, as well as the Board of Management department for Technology and Innovation. Group Headquarters defines strategic aims for the Group, ensures they are met, and becomes directly involved in selected Group projects. Group Services provides services to the entire Group; in addition to typical services provided by Deutsche Telekom Services Europe, such as financial accounting, human resources services, and operational procurement, Group Services also includes the placement services of personnel services provider Vivento. Further units are Group Supply Services (GSUS) for real estate management and strategic procurement, and MobilitySolutions, which is a full-service provider for fleet management and mobility services.

### Changes to the segment and organizational structure in 2023

As a result of the agreement concluded on July 13, 2022, the **GD tower companies**, which operated the cell tower business in Germany and Austria in the Group Development operating segment, had been recognized as a discontinued operation in the consolidated financial statements from the third quarter of 2022 until their sale effective February 1, 2023. The consolidated income statement was adjusted with retrospective effect in the comparative periods.

On September 6, 2022, T-Mobile US reached an agreement with Cogent Infrastructure (Cogent) on the sale of T-Mobile US' fiber-optic based **Wireline Business**. The transaction was consummated on May 1, 2023.

For further information on the business transactions, please refer to the section "[Changes in the composition of the Group and other transactions](#)" under "[Summary of accounting policies](#)."

T-Systems International GmbH transferred all **obligations from the company pension scheme** vis-à-vis former employees and current beneficiaries, and the proportion of plan assets endowed for these obligations, to Deutsche Telekom AG with retroactive effect from January 1, 2023 by way of a spin-off under the law governing corporate reorganizations. Under this spin-off, net segment liabilities totaling EUR 0.1 billion were transferred from the Systems Solutions operating segment to the Group Headquarters & Group Services segment. Prior-year comparatives were not adjusted retrospectively.

The business segments presented are reviewed at regular intervals by the Deutsche Telekom Board of Management in terms of the allocation of resources and their earnings performance.

The measurement principles for Deutsche Telekom's segment reporting structure are based primarily on the IFRSs adopted in the consolidated financial statements. Deutsche Telekom evaluates the segments' performance based on revenue and profit/loss from operations (EBIT), among other factors. Revenue generated and goods and services exchanged between segments are calculated on the basis of market prices. Services provided by Deutsche Telekom IT are generally charged at cost. Development services are not charged, but capitalized at segment level in accordance with the internal control logic. In accordance with the segments' control logic, intragroup leases are not capitalized by the lessee, but instead recognized as periodic expenses. In accordance with the Company's own principles of segment management, when loans with embedded derivatives are granted internally to Group entities, the derivative component is recognized separately also in the creditor company's financial statements and measured at fair value through profit or loss. Segment assets and liabilities include all assets and liabilities that are carried in the financial statements prepared by the segments and included in the consolidated financial statements. Segment investments include additions to intangible assets, property, plant and equipment, and right-of-use assets. Where entities accounted for using the equity method are directly allocable to a segment, their shares of profit or loss after income taxes and their carrying amounts are reported in that segment's accounts. All of the performance indicators shown in the following tables are presented exclusively from the segments' perspective: The effects of intersegment transactions are eliminated and presented in aggregate form in the reconciliation line.

The following table shows the performance indicators used by Deutsche Telekom to evaluate the operating segments' performance as well as additional segment-related indicators:

millions of €

		Net revenue	Inter-segment revenue	Total revenue	Profit (loss) from operations			Impairment losses	Interest income	Interest expense	Share of profit (loss) of associates and joint ventures accounted for using the equity method	Income taxes	Segment assets	Segment liabilities	Segment investments	Investments accounted for using the equity method	Net cash from operating activities	Net cash used in/ from investing activities	Of which: cash capex <sup>a</sup>	Net cash used in/ from financing activities	Average number of employees
					Depreciation and amortization	Depreciation	Amortization														
Germany	2023	24,520	667	25,187	6,073	(4,211)	(9)	280	(685)	(147)	(7)	52,637	38,645	6,982	364	10,289	(4,585)	(4,587)	(6,181)	60,468	
	2022	23,912	593	24,505	7,006	(4,005)	(14)	32	(372)	(516)	(7)	49,366	33,167	4,995	511	9,424	(1,940)	(4,399)	(7,521)	60,443	
	2021	23,391	659	24,050	4,956	(4,006)	(15)	4	(350)	(15)	(5)	46,535	33,188	4,450	33	8,615	(4,214)	(4,119)	434	63,174	
United States	2023	72,431	5	72,436	14,487	(15,513)	(38)	273	(4,526)	29	(2,550)	203,435	138,491	12,846	384	25,206	(9,869)	(10,053)	(14,849)	66,446	
	2022	75,429	7	75,436	7,470	(18,371)	(866)	75	(4,438)	24	(409)	215,581	143,900	28,446	368	23,569	(16,165)	(16,340)	(8,978)	69,056	
	2021	67,789	2	67,791	7,217	(18,292)	(46)	16	(3,776)	8	(325)	196,781	129,522	25,035	323	19,663	(19,816)	(18,594)	(3,042)	70,793	
Europe	2023	11,586	204	11,790	1,973	(2,500)	(23)	60	(200)	(6)	(332)	24,237	8,801	2,970	42	3,801	(1,951)	(2,049)	(1,905)	33,430	
	2022	10,944	214	11,158	1,724	(2,444)	(128)	27	(130)	(18)	(379)	23,449	8,202	2,469	36	3,775	(1,639)	(1,872)	(2,485)	34,621	
	2021	11,074	220	11,294	1,814	(2,561)	(15)	21	(137)	0	(425)	24,135	8,284	2,570	54	3,739	28	(1,905)	(3,776)	38,404	
Systems Solutions	2023	3,258	638	3,896	(71)	(218)	(126)	152	(155)	(2)	(41)	4,016	2,972	306	22	299	(395)	(210)	107	25,927	
	2022	3,106	705	3,811	(110)	(228)	(111)	35	(52)	(2)	(50)	4,087	3,240	261	23	117	(226)	(221)	284	26,643	
	2021	3,032	727	3,759	(247)	(243)	(178)	9	(25)	(1)	(40)	3,993	3,503	326	23	158	(138)	(235)	96	25,878	
Group Development	2023	32	83	115	13,217	(2)	0	220	(62)	(2,640)	(21)	11,237	3,879	7	3,777	381	53	(24)	658	166	
	2022	828	880	1,708	1,911	(195)	0	6	(74)	(30)	(50)	6,444	8,572	318	365	756	(3,887)	(343)	(1,770)	1,289	
	2021	2,333	832	3,165	1,084	(706)	0	2	(280)	(66)	(45)	10,700	6,587	1,303	491	1,356	(809)	(572)	(635)	2,721	
Group Headquarters & Group Services	2023	158	2,147	2,305	(1,874)	(1,326)	(26)	1,265	(2,356)	0	31	40,096	51,607	1,135	15	7,755	(1,433)	(969)	(5,863)	18,419	
	2022	193	2,214	2,407	(1,837)	(1,439)	(37)	868	(1,311)	20	(1,324)	40,522	55,067	1,165	15	7,981	964	(973)	(4,180)	19,183	
	2021	193	2,322	2,515	(1,764)	(1,434)	(30)	1,204	(1,287)	(27)	(977)	38,851	58,470	1,116	14	4,058	(3,922)	(1,007)	(7,805)	19,870	
<b>Total from continuing operations and the discontinued operation</b>	2023	111,985	3,744	115,729	33,805	(23,770)	(222)	2,250	(7,984)	(2,766)	(2,920)	335,658	244,395	24,246	4,604	47,731	(18,180)	(17,892)	(28,033)	204,856	
	2022	114,413	4,612	119,025	16,164	(26,682)	(1,156)	1,043	(6,377)	(522)	(2,219)	339,449	252,148	37,654	1,318	45,622	(22,893)	(24,148)	(24,650)	211,236	
	2021	107,811	4,763	112,574	13,060	(27,242)	(284)	1,256	(5,855)	(101)	(1,817)	320,995	239,554	34,800	938	37,589	(28,871)	(26,432)	(14,728)	220,840	
Reconciliation	2023	0	(3,744)	(3,744)	(3)	16	1	(1,389)	1,391	0	(44)	(45,353)	(45,327)	(26)	1	(10,433)	7,967	26	2,499	0	
	2022	0	(4,612)	(4,612)	(5)	11	0	(662)	662	0	(2)	(40,859)	(40,878)	(174)	0	(9,803)	587	34	9,212	0	
	2021	0	(4,763)	(4,763)	(3)	45	0	(805)	803	(1)	2	(39,368)	(39,395)	(75)	0	(5,418)	1,468	66	3,949	0	
<b>Consolidated total from continuing operations and the discontinued operation</b>	2023	111,985	0	111,985	33,802	(23,754)	(221)	861	(6,593)	(2,766)	(2,964)	290,305	199,068	24,220	4,605	37,298	(10,213)	(17,866)	(25,534)	204,856	
	2022	114,413	0	114,413	16,159	(26,671)	(1,156)	381	(5,715)	(522)	(2,221)	298,590	211,270	37,480	1,318	35,819	(22,306)	(24,114)	(15,438)	211,236	
	2021	107,811	0	107,811	13,057	(27,197)	(284)	451	(5,052)	(102)	(1,815)	281,627	200,159	34,725	938	32,171	(27,403)	(26,366)	(10,779)	220,840	
Discontinued operation	2023	(15)	(84)	(99)	(13,004)	0	0	9	4	0	(708)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
	2022	(216)	(938)	(1,154)	(745)	192	0	6	36	(2)	284	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
	2021	(201)	(887)	(1,088)	(477)	391	0	160	25	0	83	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Reconciliation	2023	0	84	84	0	0	0	0	1	0	0	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
	2022	0	938	938	0	0	0	0	0	0	0	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
	2021	0	887	887	0	0	0	0	0	0	0	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
<b>Group total</b>	2023	111,970	0	111,970	20,798	(23,754)	(221)	870	(6,588)	(2,766)	(3,672)	290,305	199,068	24,220	4,605	37,298	(10,213)	(17,866)	(25,534)	204,856	
	2022	114,197	0	114,197	15,414	(26,479)	(1,156)	387	(5,679)	(524)	(1,937)	298,590	211,270	37,480	1,318	35,819	(22,306)	(24,114)	(15,438)	211,236	
	2021	107,610	0	107,610	12,580	(26,806)	(284)	611	(5,027)	(102)	(1,732)	281,627	200,159	34,725	938	32,171	(27,403)	(26,366)	(10,779)	220,840	

<sup>a</sup> Cash outflows for investments in intangible assets (excluding goodwill) and property, plant and equipment, as shown in the statement of cash flows.

**Information on geographic areas.** The Group's non-current assets and net revenue are shown by region: Germany, Europe (excluding Germany), North America, and other countries. The North America region comprises the United States and Canada. The Europe (excluding Germany) region covers the entire European Union (excluding Germany) and the other countries in Europe. Other countries include all countries that are not Germany or in Europe (excluding Germany) or North America. Non-current assets are allocated to the regions according to the location of the assets in question. Non-current assets encompass intangible assets; property, plant and equipment; right-of-use assets; capitalized contract costs; investments accounted for using the equity method; as well as other non-current assets. Net revenue is allocated according to the location of the respective customers' operations.

	Non-current assets			Net revenue		
	Dec. 31, 2023	Dec. 31, 2022	Dec. 31, 2021	2023	2022	2021
Germany	47,033	41,257	42,928	25,721	25,057	24,550
International	196,367	204,829	187,158	86,249	89,140	83,061
Europe (excluding Germany)	19,083	18,412	19,941	13,371	13,202	14,810
North America	177,217	186,340	167,122	72,386	75,406	67,795
Other countries	68	76	95	492	532	456
<b>Group</b>	<b>243,401</b>	<b>246,086</b>	<b>230,086</b>	<b>111,970</b>	<b>114,197</b>	<b>107,610</b>

For information on products and services, please refer to Note 20 "Net revenue"

### 39 Contingencies

As part of its ordinary business activities, Deutsche Telekom is involved in various proceedings both in and out of court with government agencies, competitors, and other parties, the outcome of which often cannot be reliably anticipated. As of the reporting date, the Group was exposed to contingent liabilities amounting to EUR 0.1 billion (December 31, 2022: EUR 0.1 billion) and to contingent assets amounting to EUR 0.0 billion (December 31, 2022: EUR 0.0 billion) that can be reliably estimated, and, on the basis of the information and estimates available, do not fulfill the requirements for recognition as liabilities or assets in the statement of financial position. The aforementioned total contingent liabilities only include individual cases that do not have any significant impact on their own. In the event that, in extremely rare cases, Deutsche Telekom comes to the conclusion that the disclosures required by IAS 37 could seriously undermine the outcome of the relevant proceedings, these disclosures will not be made.

#### Contingent liabilities

On the basis of the information and estimates available, the following issues do not fulfill the requirements for recognition as liabilities in the statement of financial position. As it is not possible to estimate the amount of the contingent liabilities or the group of contingent liabilities with sufficient reliability in each case due to the uncertainties described below, they have not been included in the aforementioned total contingent liabilities.

**Claims relating to charges for the shared use of cable ducts.** In 2012, Kabel Deutschland Vertrieb und Service GmbH (today Vodafone Deutschland GmbH (VDG)) filed a claim against Telekom Deutschland GmbH to reduce the annual charge for the rights to use cable duct capacities. In similar proceedings, the then Unitymedia Hessen GmbH & Co. KG, Unitymedia NRW GmbH, and Kabel BW GmbH (today all Vodafone West) filed claims against Telekom Deutschland GmbH in January 2013, demanding that it cease charging the plaintiffs more than a specific and precisely stated amount for the shared use of cable ducts, including in the future. The claims were rejected by the Frankfurt/Main Higher Regional Court (VDG) and by the Düsseldorf Higher Regional Court (Vodafone West) and an appeal was not allowed in both cases. In response to the complaints of the plaintiffs against non-allowance of appeal, the Federal Court of Justice allowed the appeal by VDG to the extent that it relates to claims dating from January 1, 2012 onward; the appeal by Vodafone West was allowed to the extent that it relates to claims dating from January 1, 2016 onward. The claims were rejected with legally binding effect for the time periods prior to this. In a ruling on December 14, 2021, the Federal Court of Justice referred the proceedings concerning the remaining claims back to the responsible Higher Regional Courts for a new hearing and decision. VDG has since updated its claim, which it now puts at around EUR 826 million plus interest for the period from January 2012 to December 2022. The plaintiff Vodafone West has also updated its claim, which it now puts at around EUR 418 million plus interest for the period from January 2016 to June 2022. It is currently not possible to estimate the financial impact of both these proceedings with sufficient certainty.



**Sprint Merger class action.** On June 1, 2021, a shareholder class action and derivative action was filed in the Delaware Court of Chancery against Deutsche Telekom AG, SoftBank, T-Mobile US, and all of our officers and directors at that time, asserting a breach of fiduciary duties relating to the purchase price amendment to the Merger Agreement, as well as SoftBank's subsequent monetization of its T-Mobile US shares. On October 29, 2021, the complaint was amended. The amended complaint is directed at the same defendants and the same underlying transactions as in the original action; however, it includes additional submission on alleged facts. It is currently not possible to estimate the resulting claim and financial risk of these proceedings with sufficient certainty.

**Proceedings against T-Mobile US in consequence of the cyberattack on T-Mobile US in August 2021.** In August 2021, T-Mobile US confirmed that their systems had been subject to a criminal cyberattack that compromised data of millions of their customers, former customers, and prospective customers. With the assistance of outside cybersecurity experts, T-Mobile US located and closed the unauthorized access to their systems and identified customers whose information was impacted and notified them, consistent with state and federal requirements. As a result of the cyberattack, numerous consumer class actions including mass arbitrations were filed against T-Mobile US. The class actions brought before the federal courts were consolidated into one action in December 2021. The plaintiffs are claiming damages in an as yet unspecified amount. On July 22, 2022, T-Mobile US entered into an agreement to settle the consumer class action in the Federal Court for USD 350 million. In addition, T-Mobile US had committed to spending a total of USD 150 million in 2022 and 2023 on data security and related technologies. The settlement was approved by the court in June 2023. A member of the class action appealed against the final decision on approval and is objecting to the awarding of lawyers' fees by the court to the lawyer for the class action. This is further delaying the closure of the proceedings. T-Mobile US expects that the settlement of the consumer class action, together with further settlements already or still to be concluded with consumers, will satisfy essentially all claims asserted to date by current, former, and potential customers affected by the cyberattack in 2021. T-Mobile US has recognized corresponding provisions for risks in the statement of financial position of around USD 0.3 billion (EUR 0.3 billion).

Furthermore, in November 2021, a derivative action was brought against the members of the Board of Directors of T-Mobile US and against T-Mobile US as nominal defendant. This action has since been withdrawn. In September 2022, a further purported shareholder filed a new derivative action against the members of the Board of Directors of T-Mobile US and against T-Mobile US as nominal defendant alleging claims for breach of fiduciary duties relating to the company's cybersecurity practices. It is currently not possible to estimate the resultant financial risk with sufficient certainty.

In addition, inquiries have been made by various government agencies, law enforcement and other state authorities, with which T-Mobile US is cooperating in full. It is currently not possible to estimate the resultant financial risk of these proceedings with sufficient certainty.

**Proceedings against T-Mobile US in consequence of the cyberattack on T-Mobile US in January 2023.** On January 5, 2023, T-Mobile US identified that a bad actor was obtaining data through an application programming interface (API). Investigations by the company have found that the affected API was only able to provide a limited set of customer account data, including name, billing address, email address, telephone number, date of birth, T-Mobile account number, and information such as the number of lines on the account and plan features. The results of the investigation indicate that, in total, around 37 million current postpaid and prepaid customer accounts were affected, although many of these accounts did not include the full data set. T-Mobile US assumes that the attacker retrieved data via the affected API for the first time from or around November 25, 2022. In accordance with federal and state requirements, the company has notified those individuals whose data was affected. In connection with this cyberattack, consumer class actions were filed against T-Mobile US and official inquiries were submitted to the company, to which it will respond and, as a result of which, it may incur substantial expenses. It is currently not possible to estimate the resultant financial risk with sufficient certainty.

**Patents and licenses.** Like many other large telecommunications and internet providers, Deutsche Telekom is exposed to a growing number of intellectual property rights disputes. There is a risk that Deutsche Telekom may have to pay license fees and/or compensation; Deutsche Telekom is also exposed to a risk of cease-and-desist orders, for example relating to the sale of a product or the use of a technology.

**Anti-trust proceedings.** Deutsche Telekom and its subsidiaries are subject to proceedings under anti-trust law in various jurisdictions, which may also lead to civil follow-on claims. Taken individually, none of the proceedings has a material impact. Deutsche Telekom believes the respective allegations and claims for damages are unfounded. The outcome of the proceedings cannot be foreseen at this point in time.

**Claims for damages against Slovak Telekom following a European Commission decision to impose fines.** The European Commission decided on October 15, 2014 that Slovak Telekom had abused its market power on the Slovak broadband market and as a result imposed fines on Slovak Telekom and Deutsche Telekom AG, which were paid in full in January 2015. After the General Court of the European Union partially overturned the European Commission's decision in 2018 and reduced the fines by a total of EUR 13 million, the legal recourse following the ruling of the European Court of Justice on March 25, 2021 is exhausted. Following the decision of the European Commission, competitors filed damage actions against Slovak Telekom with the civil court in Bratislava. These claims seek compensation for alleged damages due to Slovak Telekom's abuse of a dominant market position, as determined by the European Commission. Three claims totaling EUR 219 million plus interest are currently pending. It is currently not possible to estimate the financial impact with sufficient certainty.

**Claims for damages against Deutsche Telekom AG, including due to insolvency of Phones4U.** Phones4U was an independent British mobile retailer, which declared insolvency in 2014. The insolvency administrator is pursuing claims before the High Court of Justice in London against the mobile providers active on the UK market at that time and their parent companies on the grounds of alleged collusion in violation of anti-trust law and breach of contract. Deutsche Telekom AG, which at that time held 50 % of the mobile company EE Limited, has rejected the claims as unsubstantiated. The High Court of Justice in London heard testimony from several witnesses and experts in the period between mid-May and the end of July 2022 with a view to establishing the legal basis for a claim. On November 10, 2023, the High Court of Justice in London rejected all claims made by Phones4U against all defendants. In December 2023, Phones4U filed an application for leave to lodge an appeal with the High Court of Justice in London. The hearing took place on December 19, 2023. The High Court of Justice in London rejected the application by Phones4U for leave to lodge an appeal. Phones4U is pursuing the application further with the Court of Appeal. It is currently not possible to estimate the financial impact with sufficient certainty.

**Antitrust class action complaint following the merger with Sprint.** T-Mobile US is defending against an antitrust class action complaint from June 17, 2022, in which the plaintiffs allege that the merger of T-Mobile US and Sprint violated the antitrust laws and harmed competition in the U.S. retail cell service market. Plaintiffs seek injunctive relief and trebled monetary damages on behalf of a purported class of AT&T and Verizon customers who plaintiffs allege paid artificially inflated prices due to the Merger. It is currently not possible to estimate the financial impact with sufficient certainty.

**Tax risks.** In many countries, Deutsche Telekom is subject to the applicable tax regulations. Risks can arise from changes in local taxation laws or case law and different interpretations of existing provisions. As a result, they can affect Deutsche Telekom's tax expense and benefits as well as tax receivables and liabilities.

#### 40 Lessor relationships

**Finance leases.** Deutsche Telekom is a lessor in connection with finance leases. Essentially, these relate to the leasing of routers and other hardware, which Deutsche Telekom provides to its customers for data and telephone network solutions.

The following table shows how the amount of the net investment in a finance lease is determined:

millions of €	Dec. 31, 2023	Dec. 31, 2022
Lease payments	207	215
Unguaranteed residual value	0	1
Gross investment	207	215
Unearned finance income	(10)	(10)
<b>Net investment (present value of the lease payments)</b>	<b>197</b>	<b>205</b>

The following table presents the gross investment amounts and the present value of payable lease payments:

Maturity	Dec. 31, 2023		Dec. 31, 2022	
	Gross investment	Present value of lease payments	Gross investment	Present value of lease payments
Within 1 year	108	103	94	90
In 1 to 2 years	55	51	77	73
In 2 to 3 years	22	21	24	23
In 3 to 4 years	11	11	10	10
In 4 to 5 years	5	5	5	4
After 5 years	7	6	6	6
	<b>207</b>	<b>197</b>	<b>215</b>	<b>205</b>

**Operating leases.** Deutsche Telekom is a lessor in connection with operating leases. The underlying leases mainly relate to mobile terminal equipment in the United States operating segment, cell sites, building and co-location space, and unbundled local loop lines. By contrast, contracts on the provision of the latest generation of modems/routers to consumers in the fixed-network mass-market do not satisfy the definition of a lease, where modem and router features are incorporated in one device.

Where terminal equipment is leased in the United States operating segment, customers are entitled to receive a new device once per month during the term of the lease. On receipt of the new device or at the end of the contract, the customer either returns or purchases the equipment. The purchase price at the end of the lease is set at the commencement of the lease and is equal to the estimated residual value of the equipment. The purchase price is based on the type of equipment and the advance payment. The contracts do not contain any residual value guarantees or variable lease payments, nor do they contain any restrictions or covenants. Terminal equipment returned by customers is prepared for sale in the secondary market or for use as a replacement for defective devices. This reduces the residual value risk of the returned equipment.

The leasing of local loop lines and space to wholesale fixed-network customers (e.g., co-location space) is also classified as a lease. The regulator requires Deutsche Telekom to make co-location space and unbundled local loop lines available to competitors. In contrast to unregulated products, the residual value risk for these assets is rather low because competitors are economically dependent on the use of these assets. In the unlikely event that co-location space and unbundled local loop lines are not leased, Deutsche Telekom will try to find new tenants for the vacant space or unleased lines. In the case of its own cell sites in the Europe operating segment, Deutsche Telekom will also strive to continue leasing – where possible – all of the free space that it does not itself occupy. The aim here is to reduce the vacancy rate of unused space as far as possible by re-letting and to spread the cost.

Operating leases exist for the following items of property, plant and equipment:

millions of €				
	Land and buildings	Technical equipment and machinery	Other equipment, operating and office equipment	Total
<b>Cost</b>				
<b>At December 31, 2021</b>	<b>22</b>	<b>4,239</b>	<b>3</b>	<b>4,264</b>
Currency translation	0	202	0	202
Changes in the composition of the Group	0	0	0	0
Additions	0	467	1	468
Disposals	0	(2,477)	0	(2,477)
Change from non-current assets and disposal groups held for sale	0	(4)	0	(4)
Reclassifications	0	9	1	10
<b>At December 31, 2022</b>	<b>22</b>	<b>2,437</b>	<b>6</b>	<b>2,465</b>
Currency translation	0	(12)	0	(12)
Changes in the composition of the Group	0	(3)	0	(3)
Additions	0	297	2	299
Disposals	(1)	(1,233)	0	(1,234)
Change from non-current assets and disposal groups held for sale	0	0	0	0
Reclassifications	(2)	32	(1)	30
<b>At December 31, 2023</b>	<b>20</b>	<b>1,518</b>	<b>7</b>	<b>1,545</b>
<b>Accumulated depreciation and impairment losses</b>				
<b>At December 31, 2021</b>	<b>(20)</b>	<b>(2,599)</b>	<b>(2)</b>	<b>(2,621)</b>
Currency translation	0	(133)	0	(133)
Changes in the composition of the Group	0	0	0	0
Additions (depreciation)	(1)	(1,201)	(1)	(1,203)
Additions (impairment)	0	0	0	0
Disposals	0	2,106	0	2,106
Change from non-current assets and disposal groups held for sale	0	4	0	4
Reclassifications	0	3	0	3
Reversal of impairment losses	0	0	0	0
<b>At December 31, 2022</b>	<b>(21)</b>	<b>(1,819)</b>	<b>(3)</b>	<b>(1,843)</b>
Currency translation	0	11	0	11
Changes in the composition of the Group	0	2	0	2
Additions (depreciation)	0	(303)	(1)	(305)
Additions (impairment)	0	(1)	0	(1)
Disposals	1	1,124	0	1,125
Change from non-current assets and disposal groups held for sale	0	0	0	0
Reclassifications	2	(1)	0	1
Reversal of impairment losses	0	0	0	0
<b>At December 31, 2023</b>	<b>(19)</b>	<b>(987)</b>	<b>(4)</b>	<b>(1,011)</b>
<b>Net carrying amounts</b>				
At December 31, 2022	2	618	3	622
<b>At December 31, 2023</b>	<b>1</b>	<b>531</b>	<b>3</b>	<b>535</b>

The maturity analysis of the lease payments arising from operating leases is as follows:

millions of €		
Maturity	Dec. 31, 2023	Dec. 31, 2022
Within 1 year	239	549
In 1 to 2 years	118	357
In 2 to 3 years	27	259
In 3 to 4 years	71	271
In 4 to 5 years	21	218
After 5 years	72	845
	<b>548</b>	<b>2,500</b>

The reduction in lease payments of EUR 2.0 billion is mainly the result of the sale of a 51 % stake in the cell tower business companies in Germany and Austria (GD tower companies) in the Group Development operating segment. Of the EUR 2.5 billion of lease payments, as of December 31, 2022, EUR 1.9 billion related to DFMG Deutsche Funkturm GmbH, which was part of the GD tower companies held for sale. This entity leased cell sites to third parties.

For further information on the aforementioned business transaction, please refer to the section “Changes in the composition of the Group and other transactions” under “Summary of accounting policies.”

#### 41 Insurance contracts

A device insurance scheme is within the scope of IFRS 17, which sets accounting rules for certain insurance contracts. Under this scheme, customers of Deutsche Telekom buy insurance coverage for accidental damage, loss and theft. An insurance company is insurer, and Deutsche Telekom is the insurance company’s reinsurer, covering all losses. The coverage period of each contract in the group is one month. Deutsche Telekom applies the premium allocation approach in accordance with IFRS 17. It can be reasonably expected that the premium allocation approach results in a measurement of the liability for remaining coverage for the group that does not differ materially from the one that would be produced applying the general measurement requirements in IFRS 17. Insurance revenue for the period is the amount of expected premium receipts allocated to the period. The level of insurance risk is rather constant throughout the coverage period. There has not been significant variability in the level of claims over the past years. The premium receipts are therefore allocated to each period on the basis of the passage of time in accordance with IFRS 17, and the amount of the risk adjustment is primarily based on past experience. For materiality reasons, no adjustments are made for the time value of money and the effect of financial risk. Amounts receivable from or payable to the insurance company are presented as other financial assets or financial liabilities respectively to the extent the offsetting criteria are not met. Incurred claims of uncertain timing or amount are presented as other provisions. The portfolio of insurance contracts is composed of a multitude of customers. There are no significant risk concentrations. The main risk arising from the portfolio is the level of claims.

The amounts are illustrated in the table below.

millions of €	2023	2022
<b>Portfolio of insurance contracts that is an asset</b>		
<b>Carrying amount as of December 31</b>	<b>250</b>	<b>264</b>
<b>thereof: asset (liability) for remaining coverage</b>		
Carrying amount as of January 1 (asset)	406	370
Premiums received	(4,540)	(4,566)
Insurance revenue recognized in profit or loss in the current period	4,533	4,583
Currency translation effects recognized directly in equity	(13)	19
<b>Carrying amount as of December 31 (asset)</b>	<b>386</b>	<b>406</b>
<b>thereof: liability for incurred claims</b>		
Carrying amount as of January 1 (liability)	(142)	(150)
Expenses recognized in the current period for incurred claims and other insurance service expenses	(3,044)	(3,023)
Incurred claims and other insurance service expenses paid in the current period	2,905	2,878
Payments in the current period that relate to past service	142	152
Currency translation effects recognized directly in equity	3	1
<b>Carrying amount as of December 31 (liability)</b>	<b>(136)</b>	<b>(142)</b>

Insurance revenue in the amount of EUR 2,747 million and insurance service expenses in the amount of EUR 1,919 million were recognized in 2021.

## 42 Other financial obligations

The following table provides an overview of Deutsche Telekom's other financial obligations:

	Dec. 31, 2023			
	Total	Due within 1 year	Due > 1 year ≤ 5 years	Due > 5 years
Purchase commitments regarding property, plant and equipment	5,323	4,731	429	163
Purchase commitments regarding intangible assets	8,231	3,764	4,458	9
Firm purchase commitments for inventories	3,707	3,686	21	0
Other purchase commitments and similar obligations	25,691	13,967	8,887	2,837
Payment obligations to the Civil Service Pension Fund	846	0	672	174
Obligations from the acquisition of interests in other companies	1,308	1,308	0	0
Miscellaneous other obligations	2	1	1	0
	<b>45,108</b>	<b>27,457</b>	<b>14,468</b>	<b>3,183</b>

Purchase commitments regarding intangible assets include, among others, obligations in connection with the agreement between T-Mobile US and Channel 51 License Co LLC, and LB License Co, LLC, entered into on August 8, 2022, for the acquisition of spectrum licenses in the 600 MHz band for an aggregate purchase price of USD 3.5 billion (EUR 3.2 billion). The item also includes obligations arising from the agreement between T-Mobile US and Comcast, entered into on September 12, 2023, for the acquisition of 600 MHz spectrum licenses. In this connection, the maximum purchase price of USD 3.3 billion (EUR 3.0 billion) was included in the disclosure. Other purchase commitments and similar obligations mainly comprise obligations for the procurement of services, such as maintenance and servicing, IT services, marketing measures, and outsourcing. Of the obligations arising in connection with business combinations, USD 1.2 billion (EUR 1.0 billion) relates to obligations arising from the agreed acquisition of Ka'ena in the United States.

For further information on the agreements concluded with Channel 51 and Comcast, please refer to Note 6 "[Intangible assets](#)."

For further information on the agreed acquisition of Ka'ena, please refer to the section "[Changes in the composition of the Group and other transactions](#)" under "[Summary of accounting policies](#)."

### 43 Financial instruments and risk management

For further information on financial instruments, please refer in particular to Note 2 “Trade receivables,” Note 11 “Other financial assets,” Note 13 “Financial liabilities and lease liabilities,” Note 29 “Finance costs,” and Note 31 “Other financial income/expense.”

#### Carrying amounts, amounts recognized, and fair values by class and measurement category

millions of €

	Measurement category in accordance with IFRS 9	Carrying amount Dec. 31, 2023	Amounts recognized in the statement of financial position in accordance with IFRS 9			
			Amortized cost	Fair value through other comprehensive income without recycling to profit or loss	Fair value through other comprehensive income with recycling to profit or loss	Fair value through profit or loss <sup>a</sup>
<b>Assets</b>						
<b>Cash and cash equivalents</b>	AC	<b>7,274</b>	7,274			
<b>Trade receivables</b>		<b>16,157</b>				
At amortized cost	AC	7,710	7,710			
At fair value through other comprehensive income	FVOCI	8,446		8,446		8,446
<b>Other financial assets</b>		<b>9,593</b>				
<b>Originated loans and other receivables</b>		<b>7,190</b>				
At amortized cost	AC	6,538	6,538			6,550
Of which: collateral paid	AC	1,709	1,709			
Of which: publicly funded projects	AC	1,863	1,863			
At fair value through profit or loss	FVTPL	652			652	652
<b>Equity instruments</b>		<b>426</b>				
At fair value through other comprehensive income	FVOCI	422		422		422
At fair value through profit or loss	FVTPL	4			4	4
<b>Derivative financial assets</b>		<b>1,780</b>				
Derivatives without a hedging relationship	FVTPL	1,122			1,122	1,122
Of which: termination rights embedded in bonds issued	FVTPL	200			200	200
Of which: energy forward agreements	FVTPL	169			169	169
Of which: options received from third parties for the purchase or sale of shares in subsidiaries and associates	FVTPL	431			431	431
Derivatives with a hedging relationship	n.a.	658		643	15	658
<b>Lease assets</b>	n.a.	<b>197</b>				
<b>Cash and cash equivalents and trade receivables and other financial assets directly associated with non-current assets and disposal groups held for sale</b>	AC	<b>0</b>	0			

<sup>a</sup> For energy forward agreements please refer to the detailed comments in the following section.

<sup>b</sup> The practical expedient under IFRS 7.29 was applied for disclosures on specific fair values.

millions of €

**Amounts recognized in the statement of financial position  
in accordance with IFRS 9**

	Measurement category in accordance with IFRS 9	Carrying amount Dec. 31, 2023	Amortized cost	Fair value through other comprehensive income without recycling to profit or loss	Fair value through other comprehensive income with recycling to profit or loss	Fair value through profit or loss <sup>a</sup>	Fair value Dec. 31, 2023 <sup>b</sup>
<b>Liabilities</b>							
Trade payables	AC	10,916	10,916				
<b>Financial liabilities</b>		<b>104,522</b>					
Bonds and other securitized liabilities	AC	87,773	87,773				84,266
Liabilities to banks	AC	3,560	3,560				3,466
Liabilities with the right of creditors to priority repayment in the event of default	AC	2,067	2,067				2,001
Other interest-bearing liabilities	AC	6,628	6,628				6,499
Of which: collateral received	AC	39	39				
Liabilities from deferred interest	AC	1,009	1,009				
Other non-interest-bearing liabilities	AC	921	921				
Of which: puttable shares of non-controlling interests in consolidated partnerships	AC	31	31				
<b>Derivative financial liabilities</b>		<b>2,564</b>					
Derivatives without a hedging relationship	FVTPL	296				296	296
Of which: energy forward agreements	FVTPL	32				32	32
Derivatives with a hedging relationship	n.a.	2,268			435	1,833	2,268
Of which: energy forward agreements	n.a.	53			53		53
<b>Lease liabilities</b>	n.a.	<b>40,792</b>					
<b>Trade payables and other financial liabilities directly associated with non-current assets and disposal groups held for sale</b>	AC	<b>0</b>	0				
<b>Aggregated by measurement category (IFRS 9)</b>							
<b>Assets</b>							
Financial assets at amortized cost	AC	21,522	21,522				6,550
Financial assets at fair value through other comprehensive income with recycling to profit or loss	FVOCI	8,446			8,446		8,446
Financial assets at fair value through other comprehensive income without recycling to profit or loss	FVOCI	422		422			422
Financial assets at fair value through profit or loss	FVTPL	1,778				1,778	1,778
<b>Liabilities</b>							
Financial liabilities at amortized cost	AC	112,874	112,874				96,233
Financial liabilities at fair value through profit or loss	FVTPL	296				296	296

<sup>a</sup> For energy forward agreements please refer to the detailed comments in the following section.

<sup>b</sup> The practical expedient under IFRS 7.29 was applied for disclosures on specific fair values.



millions of €

	Measurement category in accordance with IFRS 9	Carrying amount Dec. 31, 2022	Amounts recognized in the statement of financial position in accordance with IFRS 9			
			Amortized cost	Fair value through other comprehensive income without recycling to profit or loss	Fair value through other comprehensive income with recycling to profit or loss	Fair value through profit or loss <sup>a</sup>
<b>Assets</b>						
<b>Cash and cash equivalents</b>	AC	<b>5,767</b>	5,767			
<b>Trade receivables</b>		<b>16,766</b>				
At amortized cost	AC	6,926	6,926			
At fair value through other comprehensive income	FVOCI	9,841		9,841		9,841
<b>Other financial assets</b>		<b>9,910</b>				
<b>Originated loans and other receivables</b>		<b>6,983</b>				
At amortized cost	AC	6,337	6,337			6,347
Of which: collateral paid	AC	1,484	1,484			
Of which: publicly funded projects	AC	2,019	2,019			
At fair value through profit or loss	FVTPL	646			646	646
<b>Equity instruments</b>		<b>449</b>				
At fair value through other comprehensive income	FVOCI	446		446		446
At fair value through profit or loss	FVTPL	3			3	3
<b>Derivative financial assets</b>		<b>2,273</b>				
Derivatives without a hedging relationship	FVTPL	1,239			1,239	1,239
Of which: termination rights embedded in bonds issued	FVTPL	117			117	117
Of which: energy forward agreements	FVTPL	204			204	204
Of which: options received from third parties for the purchase or sale of shares in subsidiaries and associates	FVTPL	402			402	402
Derivatives with a hedging relationship	n.a.	1,034			1,034	1,034
<b>Lease assets</b>	n.a.	<b>205</b>				
<b>Cash and cash equivalents and trade receivables and other financial assets directly associated with non-current assets and disposal groups held for sale</b>	AC	<b>75</b>	75			

<sup>a</sup> For energy forward agreements please refer to the detailed comments in the following section.

<sup>b</sup> The practical expedient under IFRS 7.29 was applied for disclosures on specific fair values.

millions of €

	Measurement category in accordance with IFRS 9	Carrying amount Dec. 31, 2022	Amounts recognized in the statement of financial position in accordance with IFRS 9			
			Amortized cost	Fair value through other comprehensive income without recycling to profit or loss	Fair value through other comprehensive income with recycling to profit or loss	Fair value through profit or loss <sup>a</sup>
<b>Liabilities</b>						
<b>Trade payables</b>	AC	<b>12,035</b>	12,035			
<b>Financial liabilities</b>		<b>113,030</b>				
Bonds and other securitized liabilities	AC	93,802	93,802			87,642
Liabilities to banks	AC	4,122	4,122			3,926
Liabilities with the right of creditors to priority repayment in the event of default	AC	2,925	2,925			2,799
Other interest-bearing liabilities	AC	7,526	7,526			7,311
Of which: collateral received	AC	156	156			
Liabilities from deferred interest	AC	999	999			
Other non-interest-bearing liabilities	AC	769	769			
Of which: puttable shares of non-controlling interests in consolidated partnerships	AC	13	13			
<b>Derivative financial liabilities</b>		<b>2,889</b>				
Derivatives without a hedging relationship	FVTPL	368			368	368
Of which: energy forward agreements	FVTPL	59			59	59
Derivatives with a hedging relationship	n.a.	2,521		44	2,477	2,521
Of which: energy forward agreements	n.a.	0		0	0	0
<b>Lease liabilities</b>	n.a.	<b>38,792</b>				
<b>Trade payables and other financial liabilities directly associated with non-current assets and disposal groups held for sale</b>	AC	<b>2,431</b>	2,431			
<b>Aggregated by measurement category (IFRS 9)</b>						
<b>Assets</b>						
Financial assets at amortized cost	AC	19,105	19,105			6,347
Financial assets at fair value through other comprehensive income with recycling to profit or loss	FVOCI	9,841			9,841	9,841
Financial assets at fair value through other comprehensive income without recycling to profit or loss	FVOCI	446		446		446
Financial assets at fair value through profit or loss	FVTPL	1,888			1,888	1,888
<b>Liabilities</b>						
Financial liabilities at amortized cost	AC	124,608	124,608			101,678
Financial liabilities at fair value through profit or loss	FVTPL	368			368	368

<sup>a</sup> For energy forward agreements please refer to the detailed comments in the following section.

<sup>b</sup> The practical expedient under IFRS 7.29 was applied for disclosures on specific fair values.

**Trade receivables** include receivables amounting to EUR 2.2 billion (December 31, 2022: EUR 2.8 billion) due in more than one year. The fair value generally equals the carrying amount.

## Disclosures on fair value

### Financial instruments not measured at fair value, the fair values of which are disclosed nevertheless<sup>a</sup>

millions of €

	Dec. 31, 2023				Dec. 31, 2022			
	Level 1	Level 2	Level 3 <sup>b</sup>	Total	Level 1	Level 2	Level 3 <sup>b</sup>	Total
<b>Assets</b>								
Originated loans and receivables		6,550		6,550		6,347		6,347
<b>Liabilities</b>								
Financial liabilities measured at amortized cost	83,222	12,810	200	96,232	82,907	18,654	117	101,678
Of which: bonds and other securitized liabilities	81,225	2,845	196	84,266	80,112	7,417	113	87,642
Of which: liabilities to banks		3,466		3,466		3,926		3,926
Of which: liabilities with the right of creditors to priority repayment in the event of default	1,997		4	2,001	2,795		4	2,799
Of which: other interest-bearing liabilities		6,499		6,499		7,311		7,311

<sup>a</sup> For the definition of the levels, please refer to the section "Summary of accounting policies".

<sup>b</sup> Separation of embedded derivatives; the fair value of the entire instrument must be categorized as Level 1.

### Financial instruments measured at fair value<sup>a</sup>

millions of €

	Dec. 31, 2023				Dec. 31, 2022			
	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total
<b>Assets</b>								
Trade receivables								
At fair value through other comprehensive income			8,446	8,446			9,841	9,841
Other financial assets – Originated loans and other receivables								
At fair value through profit or loss	221		431	652	206		440	646
Equity instruments								
At fair value through other comprehensive income	11		411	422	9		437	446
At fair value through profit or loss			4	4			3	3
Derivative financial assets								
Derivatives without a hedging relationship		737	385	1,122		884	355	1,239
Derivatives with a hedging relationship		658		658		1,034		1,034
<b>Liabilities</b>								
Derivative financial liabilities								
Derivatives without a hedging relationship		263	33	296		309	59	368
Derivatives with a hedging relationship		2,215	53	2,268		2,521		2,521

<sup>a</sup> For the definition of the levels, please refer to the section "Summary of accounting policies".

Of the **equity instruments measured at fair value through other comprehensive income** and recognized under other financial assets, the instruments presented in the different levels constitute separate classes of financial instruments. In each case, the fair values of the total volume of equity instruments recognized as Level 1 are the price quotations at the reporting date.

The **listed bonds and other securitized liabilities** are assigned to Level 1 or Level 2 depending on the market liquidity of the relevant instrument. Consequently, issues denominated in euros or U.S. dollars with relatively large nominal amounts are to be classified as Level 1, the rest as Level 2. The fair values of the instruments assigned to Level 1 equal the nominal amounts multiplied by the price quotations at the reporting date. The fair values of the instruments assigned to Level 2 are calculated as the present values of the payments associated with the debts, based on the applicable yield curve and Deutsche Telekom's credit spread curve for specific currencies.

The fair values of **liabilities to banks** and **other interest-bearing liabilities** are calculated as the present values of the payments associated with the debts, based on the applicable yield curve and Deutsche Telekom's credit spread curve for specific currencies. The fair values of **trade receivables** and of **originated loans and other receivables** are calculated as the present values of the payments associated with the receivables, based on the applicable yield curve and the credit risk of the debtors.

Since there are no market prices available for the **derivative financial instruments** in the portfolio assigned to Level 2 due to the fact that they are not listed on the market, the fair values are calculated using standard financial valuation models, based entirely on observable inputs. The fair value of derivatives is the price that Deutsche Telekom would receive or have to pay if the financial instrument were transferred at the reporting date. Interest rates of contractual partners relevant as of the reporting date are used in this respect. The middle rates applicable as of the reporting date are used as exchange rates. In the case of interest-bearing derivatives, a distinction is made between the clean price and the dirty price. In contrast to the clean price, the dirty price also includes the interest accrued. The fair values carried correspond to the full fair value or the dirty price.

The **equity instruments measured at fair value through other comprehensive income** comprise a large number of investments in strategic, unlisted individual positions. Deutsche Telekom considers the chosen measurement through other comprehensive income without recycling to profit or loss to be appropriate because there are no plans to use the investments for short-term profit-taking. At the date of disposal of an investment, the total cumulative gain or loss is reclassified to retained earnings. Acquisitions and disposals are based on business policy investment decisions.

#### Investments in equity instruments at fair value through other comprehensive income

millions of €

	2023	2022
<b>Fair value as of December 31</b>	<b>422</b>	<b>446</b>
Dividends recognized in profit/loss	1	0
Of which: on investments divested in the reporting period	0	0
Of which: on investments still held at the reporting date	1	0
Fair value at the derecognition date of instruments divested in the reporting period	28	34
Cumulative gains reclassified in the reporting period from other comprehensive income to retained earnings	7	0
Of which: from the disposal of investments	7	0
Cumulative losses reclassified in the reporting period from other comprehensive income to retained earnings	0	12
Of which: from the disposal of investments	0	12

#### Development of the carrying amounts of the financial assets and financial liabilities assigned to Level 3

millions of €

	Equity instruments at fair value through other comprehensive income	Derivative financial assets at fair value through profit or loss: termination rights embedded in bonds issued	Derivative financial assets at fair value through profit or loss: energy forward agreements	Derivative financial liabilities at fair value through profit or loss: energy forward agreements	Originated loans and other receivables at fair value through profit or loss: contingent consideration receivable
<b>Carrying amount as of January 1, 2023</b>	<b>436</b>	<b>117</b>	<b>204</b>	<b>(59)</b>	<b>415</b>
Additions (including first-time classification as Level 3)	76	21			
Decreases in fair value recognized in profit/loss (including losses on disposal)		(142)	(61)	(29)	(4)
Increases in fair value recognized in profit/loss (including losses on disposal)		208	44	49	9
Decreases in fair value recognized directly in equity	(146)				
Increases in fair value recognized directly in equity	70				
Disposals (including last classification as Level 3) <sup>a</sup>	(23)		(13)	6	
Currency translation effects recognized directly in equity	(2)	(4)	(6)	1	
<b>Carrying amount as of December 31, 2023</b>	<b>411</b>	<b>200</b>	<b>169</b>	<b>(32)</b>	<b>420</b>

<sup>a</sup> The disposals under energy forward agreements include billing amounts paid.

The **equity instruments** assigned to Level 3 that are **measured at fair value through other comprehensive income** and carried under other financial assets are equity investments with a carrying amount of EUR 411 million measured using the best information available at the reporting date. As a rule, Deutsche Telekom considers transactions involving shares in those companies to have the greatest relevance. Transactions involving shares in comparable companies are also considered. The proximity of the relevant transaction to the reporting date, and the question of whether it was conducted at arm's length, are relevant for deciding which information is used for the measurement. Furthermore, the degree of similarity between the object being measured and comparable companies must be taken into consideration. Based on Deutsche Telekom's own assessment, the fair values of the equity investments at the reporting date could be determined with sufficient reliability. At the reporting date, no investments were held for sale. In the case of investments with a carrying amount of EUR 86 million, transactions involving shares in these companies took place at arm's length sufficiently close to the reporting date, which is why the share prices agreed in the transactions were to be used without adjustment for the measurement as of the current reporting date. In the case of investments with a carrying amount of EUR 41 million, an analysis of operational indicators (especially revenue, EBIT, and liquidity) revealed that the carrying amounts were equivalent to current fair values. Due to better comparability, previous arm's length transactions involving shares in these companies are preferable to more recent transactions involving shares in similar companies. In the case of investments with a carrying amount of EUR 232 million, for which the last arm's length transactions relating to shares in these companies took place further in the past, a measurement performed more recently relating to shares in similar companies provides the most reliable representation of the fair values. Here, multiples to the reference variable of expected revenue (ranging between 3.4 and 29.0) were applied and a range of equally distributed percentiles in intervals of 16.7 % around the median were taken as a basis. For each investment, the appropriate percentile was used depending on the specific circumstances. If other values had been used for the multiples and for the expected revenue amounts, the calculated fair values would have been different. These hypothetical deviations (sensitivities) are shown in the table below. In addition, non-material individual items with a carrying amount of EUR 52 million when translated into euros are included with differences in value of minor relevance.

For the development of the carrying amounts in the reporting year, please refer to the table above.

The **derivatives without a hedging relationship** assigned to Level 3 and carried under derivative financial assets relate to options embedded in bonds issued by T-Mobile US with a carrying amount of EUR 200 million when translated into euros. The options, which can be exercised by T-Mobile US at any time, allow early redemption of the bonds at fixed exercise prices. Observable market prices are available regularly and also at the reporting date for the bonds as entire instruments, but not for the options embedded therein. The termination rights are measured using an option pricing model. Historical interest rate volatilities of bonds issued by T-Mobile US and comparable issuers are used for the measurement because these provide a more reliable estimate at the reporting date than current market interest rate volatilities. The spread curve, which is also unobservable, was derived on the basis of current market prices of bonds issued by T-Mobile US and debt instruments of comparable issuers. Risk-free interest rates and spreads were simulated separately from each other. At the current reporting date, the following interest rate volatility and spreads were used for the various rating levels of the bonds:

#### Interest rate volatilities and spreads used by rating level

%	Interest volatility (absolute figure)	Spread
BBB+	0.1%–0.2 %	1.0 %–1.6 %
BBB-	0.1%–0.2 %	1.4 %–2.0 %
BB+	0.1%–0.2 %	1.6 %–2.3 %

For the mean reversion input, which is unobservable, 3 % was used. In our opinion, the values used constitute the best estimate in each case. If other values had been used for interest rate volatility, spread curve, or mean reversion, the calculated fair values would have been different. These hypothetical deviations (sensitivities) are shown in the table below. If the risk-free interest rate had been 50 basis points higher (lower) at the reporting date, the fair value of the options would have been EUR 63 million lower (EUR 82 million higher). In the reporting period, net income of EUR 66 million when translated into euros was recognized under the Level 3 measurement in other financial income/expense for unrealized gains for the options in the portfolio at the reporting date. In the reporting period, no option was exercised. Please refer to the table above for the development of the carrying amounts in the reporting period. The changes in value recognized in profit or loss in the reporting period were mainly attributable to fluctuations in the interest rates and historical interest rate volatilities in absolute terms that are relevant for measurement. Due to their distinctiveness, these instruments constitute a separate class of financial instruments.

**Sensitivities<sup>a</sup> of the carrying amounts of the financial assets and financial liabilities assigned to Level 3 depending on unobservable inputs**

millions of €

	Equity instruments at fair value through other comprehensive income	Derivative financial assets at fair value through profit or loss: termination rights embedded in bonds issued	Derivative financial assets at fair value through profit or loss: energy forward agreements	Derivative financial liabilities at fair value through profit or loss: energy forward agreements	Originated loans and other receivables at fair value through profit or loss: contingent consideration receivable
Multiple next-level-up quantile	64				
Multiple next-level-down quantile	(37)				
Expected revenues +10 %	20				
Expected revenues -10 %	(21)				
Interest rate volatility <sup>b</sup> +10 %		18			
Interest rate volatility <sup>b</sup> -10 %		(19)			
Spread curve <sup>c</sup> +50 basis points		(77)			(10)
Spread curve <sup>c</sup> -50 basis points		107			10
Mean reversion <sup>d</sup> +100 basis points		(7)			
Mean reversion <sup>d</sup> -100 basis points		7			
Future energy prices +10 %			45	4	
Future energy prices -10 %			(51)	(4)	
Future energy output +5 %			30	(1)	
Future energy output -5 %			(37)	1	
Future prices for renewable energy credits <sup>e</sup> +100 %			26	2	
Future prices for renewable energy credits <sup>e</sup> from zero			(33)	(2)	
Planned fiber-optic build-out is completed one year earlier than expected					13
Planned fiber-optic build-out is completed one year later than expected					(14)
Actual fiber-optic build-out is 5 % higher than planned each year					42
Actual fiber-optic build-out is 5 % lower than planned each year					(42)

<sup>a</sup> Change in the relevant input parameter assuming all other input parameters are unchanged.

<sup>b</sup> Interest rate volatility shows the magnitude of fluctuations in interest rates over time (relative change). The larger the fluctuations, the higher the interest rate volatility.

<sup>c</sup> The spread curve shows, for the respective maturities, the difference between the interest rates payable by the debtor and the risk-free interest rates. A minimum of zero was set for the spread curve for the sensitivity calculation, i.e., negative spreads are not applicable.

<sup>d</sup> Mean reversion describes the assumption that, after a change, an interest rate will revert to its average over time. The higher the selected value (mean reversion speed), the faster the interest rate will revert to its average in the measurement model.

<sup>e</sup> Renewable energy credits is the term used for U.S. emission certificates.

With a carrying amount of EUR 169 million when translated into euros, the **derivatives without a hedging relationship** assigned to Level 3 and carried under derivative financial assets relate to energy forward agreements embedded in contracts entered into by T-Mobile US. The same applies to **derivative financial liabilities** with a carrying amount of EUR 32 million when translated into euros. These agreements consist of two components: the energy forward agreement and the acquisition of renewable energy credits by T-Mobile US. In the case of one energy forward agreement, commercial operation is set to begin in 2025; with the others, it has already begun. Under the energy forward agreements, which are accounted for separately as derivatives, T-Mobile US receives variable amounts based on the actual energy output and the then current energy prices, and pays fixed amounts per unit of energy generated from the start of commercial operations throughout the term of the contract. The energy forward agreements are measured using valuation models because no observable market prices are available. The value of the derivatives is significantly influenced by the future energy output, the future energy prices on the relevant markets, and the future prices of renewable energy credits. The main contract parameters, including the assumptions made for unobservable parameters and periods, are set out in the following table. In our opinion, these assumptions made constitute the best estimate in each case. In the view of T-Mobile US, the contracts were entered into at current market conditions, and the most appropriate parameters for the unobservable inputs were used for measurement purposes. The transaction price at inception was zero in each case. Since the unobservable inputs have a significant influence on the measurement of the derivatives, the respective amount resulting from initial measurement (day 1 gain) – with the exception of the agreements concluded by Sprint that are explained below – was not recognized in profit or loss on initial recognition. Instead, these day 1 gains are amortized in profit or loss on a straight-line basis over the period of commercial energy production. This amortization adjusts the effects from measuring the derivatives in each accounting period using the respective valuation models and updated parameters. All amounts from the measurement of the derivatives are presented in net terms per contract in the statement of financial position (derivative financial assets/liabilities) and in the income statement (other operating income/expenses). Sprint also has agreements of this kind in its portfolio. These were concluded before the business combination with T-Mobile US and, for these agreements too, unobservable inputs have a material influence on the measurement of the derivatives. However, under the requirements for business combinations, the respective amounts resulting from the measurement are recognized as derivative financial assets, as a result of which there are no amounts yet to be amortized for these agreements. On the following reporting dates, the effects from the periodic measurement of the derivatives

will be recorded in full in the income statement (other operating expenses or other operating income). At the reporting date, the calculated fair value from Deutsche Telekom's perspective for one of the energy forward agreements described above is negative and amounts to EUR -10 million when translated into euros. All the rest are positive and amount to EUR 264 million when translated into euros. If other values had been used for future energy prices, future energy output, or future prices of renewable energy credits, the calculated fair values would have been different. These hypothetical deviations (sensitivities) are shown in the table above. In the reporting period, net income of EUR 24 million when translated into euros was recognized under the Level 3 measurement in other operating income/expense for unrealized gains for the derivatives for all the above energy forward agreements. Please refer to the corresponding table for the development of the carrying amounts in the reporting period. The market-price changes in the reporting period were attributable in part to changes in observable and unobservable energy prices and to interest rate effects. On the other hand, contract adjustments gave rise to income of EUR 33 million. The development of the day 1 gain yet to be amortized in the income statement in the reporting period is shown in the following table. The straight-line amortization of the day 1 gains through profit or loss over the period of commercial energy production amounts to a total of EUR 11 million per year when translated into euros. In addition, similar energy forward agreements were concluded in Europe for which, however, no significant volatility in fair value is to be expected. At the reporting date, their carrying amount when translated into euros was EUR 53 million (liability), and they were designated as hedging instruments in hedge relationships. Due to their distinctiveness, the energy forward agreements constitute a separate class of financial instruments.

millions of €	
	United States
Term of the contract from the start of commercial operation in years	12 to 15
End of the term of contracts for which commercial operation has already begun	2029 to 2035
Expected energy output in GWh per year	4,057
Expected energy prices per MWh for the unobservable portion of the term in €	
On-peak (i.e., times of relatively high energy demand) in €	23 to 108
Off-peak (i.e., times of relatively low energy demand) in €	20 to 104
On-peak/off-peak ratio	52 %
Length of time in years, for which energy prices are regularly observable	up to 10
Length of time in years, for which the prices of renewable energy credits are regularly observable	around 3

#### Development of the not yet amortized amounts

millions of €	
	Energy forward agreements <sup>a</sup>
<b>Measurement amounts on initial recognition</b>	<b>173</b>
Measurement amounts on initial recognition (additions during the reporting period)	72
Measurement amounts amortized in profit or loss in prior periods	(40)
Measurement amounts amortized in profit or loss in the current reporting period	(9)
Currency translation adjustments	12
Disposals in prior periods	0
Disposals in the current reporting period	(85)
<b>Measurement amounts not amortized as of December 31, 2023</b>	<b>123</b>

<sup>a</sup> For more details, please refer to the explanations above.

The **financial assets** assigned to Level 3 (**originated loans and other receivables**) include the contingent consideration receivable from the sale of a 50 % stake in GlasfaserPlus with a carrying amount of EUR 420 million, which arises in stages upon achieving certain fiber-optic build-out milestones and is measured at fair value through profit or loss. Deutsche Telekom measures this receivable on the basis of GlasfaserPlus' current build-out plans. At the current reporting date, it can be assumed that payments will fall due from 2026 to 2031. The spread of the debtor IFM constitutes an unobservable input. At the current reporting date, values of between 1.2 % and 1.4 % were used for the discounting of the individual payments. In our opinion, the assumptions used constitute the best estimate in each case. If other assumptions had been used for the amount and due dates of the payments and for the spread, the calculated fair value would have been different. These hypothetical deviations (sensitivities) are shown in the table above. In the reporting period, net income of EUR 5 million was recognized under the Level 3 measurement of the receivable in other operating income/expense. Please refer to the table above for the development of the carrying amounts in the reporting period. The market-price change in the reporting period is largely attributable to changes in the interest rates that are relevant for measurement and to the fact that, based on the current build-out plans, payments are expected up to two years later than originally planned. Due to its distinctiveness, this instrument constitutes a separate class of financial instruments. The other financial assets assigned to Level 3 (originated loans and other receivables) with a carrying amount of EUR 11 million relate to immaterial items for which no significant volatility in fair value is to be expected.

For the **trade receivables, originated loans, and other receivables** assigned to Level 3, which are measured either at fair value through other comprehensive income or **at fair value through profit or loss**, the main factor in determining fair value is the credit risk of the relevant counterparties. If the default rates applied as of the reporting date had been 1 % higher (lower) with no change in the reference variables, the fair values of the instruments would have been 1 % lower (higher). The financial assets assigned to Level 3 include trade receivables measured at fair value through other comprehensive income, for which the credit risk of customers constitutes an unobservable input for the measurement, with a carrying amount of EUR 8,446 million (December 31, 2022: EUR 9,841 million) when translated into euros. As a rule, a credit scoring model is used for receivables paid in installments. The cash flows are discounted on the basis of the weighted average of the original effective interest rates of the financial assets in the relevant portfolio. A weighted average credit-risk spread of 6.49 % (December 31, 2022: 6.28 %) was applied to the respective receivables portfolios at the reporting date. The credit-risk spreads applied are derived from the expected future credit loss of the relevant portfolio and are updated on an ongoing basis. Changes in the fair value of these trade receivables are also caused by changes in observable market interest rates. For information on the amounts recognized in shareholders' equity and in profit/loss, please refer to the table "Net gain/loss by measurement category."

The financial assets measured at fair value through profit or loss and assigned to Level 3 include additional options acquired from third parties for the purchase of company shares, with a carrying amount of EUR 17 million. No notable fluctuations in value are expected from these individual items. Due to their distinctiveness, these instruments each constitute a separate class of financial instruments.



### Net gain/loss by measurement category

millions of €

		Recognized in profit or loss from interest and dividends	Recognized in profit or loss from subsequent measurement			Recognized directly in equity from subsequent measurement At fair value <sup>a</sup>	Recognized in profit or loss from derecognition	Net gain (loss)
			At fair value	Currency translation	Impairments/ allowances			
Debt instruments measured at amortized cost	2023	324	n.a.	(317)	(340)	n.a.	(14)	(347)
	2022	42	n.a.	612	(316)	n.a.	(24)	314
Debt instruments measured at fair value through profit or loss	2023	251	6	n.a.	n.a.	n.a.	20	277
	2022	61	(40)	n.a.	n.a.	n.a.	(33)	(12)
Debt instruments measured at fair value through other comprehensive income	2023	0	n.a.	n.a.	(735)	83	(184)	(836)
	2022	0	n.a.	n.a.	(913)	(22)	(123)	(1,058)
Equity instruments measured at fair value through profit or loss	2023	0	0	n.a.	n.a.	n.a.	0	0
	2022	0	0	n.a.	n.a.	n.a.	0	0
Equity instruments measured at fair value through other comprehensive income	2023	1	n.a.	n.a.	n.a.	(70)	n.a.	(69)
	2022	0	n.a.	n.a.	n.a.	(46)	n.a.	(46)
Derivatives measured at fair value through profit or loss	2023	n.a.	85	n.a.	n.a.	n.a.	n.a.	85
	2022	n.a.	1,022	n.a.	n.a.	n.a.	n.a.	1,022
Financial liabilities measured at amortized cost	2023	(3,814)	n.a.	432	n.a.	n.a.	n.a.	(3,382)
	2022	(3,828)	n.a.	(829)	n.a.	n.a.	n.a.	(4,657)
	2023	(3,238)	91	115	(1,075)	13	(178)	(4,272)
	2022	(3,724)	982	(217)	(1,229)	(68)	(181)	(4,437)

<sup>a</sup> The amount reported under debt instruments measured at fair value through other comprehensive income is the net amount after deduction of the effects recognized in profit or loss for impairment losses in the amount of EUR -921 million.

Interest from financial instruments is recognized in finance costs, dividends in other financial income/expense (income from investments).

For further information, please refer to Note 29 "Finance costs" and Note 31 "Other financial income/expense."

The other components of the net gain/loss are generally recognized in other financial income/expense, except for allowances on trade receivables that are classified as debt instruments measured at amortized cost and debt instruments measured at fair value through other comprehensive income, which are reported under other operating expenses. The loss/gain from energy forward agreements are reported under other operating expenses/other operating income.

For further information, please refer to Note 2 "Trade receivables."

The net gain from the subsequent measurement of financial instruments allocated to the measurement category at fair value through profit or loss (EUR 85 million) also includes interest and currency translation effects. The net currency translation losses on financial assets classified as debt instruments measured at amortized cost (EUR 317 million) are primarily attributable to the Group-internal transfer of foreign-currency loans taken out by Deutsche Telekom's financing company, Deutsche Telekom International Finance B.V., on the capital market. These were offset by corresponding currency translation gains on capital market liabilities of EUR 432 million. These include currency translation losses from derivatives that Deutsche Telekom used as hedging instruments for hedge accounting in foreign currency (EUR 111 million, 2022: gains of EUR 113 million). Finance costs from financial liabilities measured at amortized cost (expense of EUR 3,814 million) primarily consist of interest expense on bonds and other (securitized) financial liabilities. The item also includes interest expense from the addition of accrued interest and interest income from interest discounted from trade payables. However, it does not include the interest expense and interest income from interest rate derivatives Deutsche Telekom used in the reporting year to hedge the fair value risk of financial liabilities.

For further information, please refer to Note 29 "Finance costs."

### Principles of risk management

Deutsche Telekom is exposed in particular to risks from changes in exchange rates, interest rates, and market prices that affect its assets, liabilities, and forecast transactions. Financial risk management aims to limit these market risks through ongoing operational and finance activities. Selected derivative and non-derivative hedging instruments are used for this purpose, depending on the risk assessment. However, Deutsche Telekom only hedges the risks that affect the Group's cash flows. Derivatives are exclusively used as hedging instruments, i.e., not for trading or other speculative purposes. To reduce the credit risk, hedging instruments are generally only concluded with leading financial institutions whose credit rating is at least BBB+/Baa1. In addition, the credit risk for derivatives with a positive market value is generally minimized through collateral agreements with all core banks. Furthermore, the limits for deposits are also set and monitored on a daily basis depending on the rating, share price performance, and credit default swap level of the respective counterparty.

The fundamentals of Deutsche Telekom's financial policy are established by the Board of Management and overseen by the Supervisory Board. Group Treasury is responsible for implementing the financial policy and for ongoing risk management. Certain transactions require the prior approval of the Board of Management, which is also regularly briefed on the severity and amount of the current risk exposure.

Group Treasury regards effective management of the market risk as one of its main tasks. The main risks relate to foreign currencies and interest rates.

**Currency risks.** Deutsche Telekom is exposed to currency risks from its investing, financing, and operating activities, and from dividend payments received. Risks from foreign currencies are hedged to the extent that they influence the Group's cash flows. Foreign-currency risks that do not influence the Group's cash flows (i.e., the risks resulting from the translation of assets and liabilities of foreign operations into the Group's reporting currency) are generally not hedged, however. Deutsche Telekom may nevertheless also hedge this foreign-currency risk under certain circumstances.

Foreign-currency risks in the area of investment result, for example, from the acquisition and disposal of investments in foreign companies. Deutsche Telekom hedges these risks. If the risk position exceeds EUR 100 million, the Board of Management must make a special decision on how the risk shall be hedged. If the risk position is below EUR 100 million, Group Treasury performs the currency hedging itself. At the reporting date, Deutsche Telekom was not exposed to any significant risks from foreign-currency transactions in the field of investments.

Foreign-currency risks in the financing area are caused by financial liabilities in foreign currency and loans in foreign currency that are issued to Group entities for financing purposes. Group Treasury hedges these risks. Cross-currency swaps and currency derivatives are used to convert financial obligations and intragroup loans denominated in foreign currencies into the Group entities' functional currencies.

At the reporting date, the foreign-currency liabilities for which currency risks were hedged mainly consisted of bonds in U.S. dollars and pounds sterling. On account of these hedging activities, Deutsche Telekom was not exposed to any significant currency risks in the area of financing at the reporting date.

Foreign-currency risks from dividend payments mainly result from the shares Deutsche Telekom holds in T-Mobile US. T-Mobile US has paid dividends in U.S. dollars as part of its shareholder return program since December 2023. Deutsche Telekom hedges potential volatility resulting from the dividends expected in euros on a rolling basis for a period of up to four years. As such, Deutsche Telekom was not exposed to any foreign-currency risks from dividend payments at the reporting date.

The Group entities predominantly execute their operating activities in their respective functional currencies. Payments made in a currency other than the respective functional currency result in foreign-currency risks in the Group. These mainly relate to payments for telecommunications services (procurement of network technology and mobile communications equipment as well as payments to international telecommunications companies for the provision of connection services) and IT services (procurement of IT hardware, software, and services). Deutsche Telekom generally uses currency derivatives for hedging purposes. On account of these hedging activities, Deutsche Telekom was not exposed to any significant short-term exchange rate risks from its operating activities at the reporting date.

For the presentation of market risks, IFRS 7 requires sensitivity analyses that show the effects of hypothetical changes of relevant risk variables on profit or loss and shareholders' equity. In addition to currency risks, Deutsche Telekom is exposed to interest rate risks and price risks in its investments. The periodic effects are determined by relating the hypothetical changes in the risk variables to the balance of financial instruments at the reporting date. It is assumed that the balance at the reporting date is representative for the year as a whole.

Currency risks as defined by IFRS 7 arise on account of financial instruments being denominated in a currency that is not the functional currency and being of a monetary nature; differences resulting from the translation of financial statements into the Group's presentation currency are not taken into consideration. Relevant risk variables are generally all non-functional currencies in which Deutsche Telekom has contracted financial instruments.

The currency sensitivity analyses are based on the following assumptions: major non-derivative monetary financial instruments (liquid assets, receivables, interest-bearing securities and/or debt instruments held, interest-bearing and non-interest-bearing liabilities, and lease liabilities) are either directly denominated in the functional currency or are transferred to the functional currency through the use of derivatives. Exchange rate fluctuations therefore have no effects on profit or loss, or shareholders' equity.

Equity instruments held are of a non-monetary nature and therefore are not exposed to a currency risk as defined by IFRS 7.

Interest income and interest expense from financial instruments are also either recorded directly in the functional currency or transferred to the functional currency using derivatives. For this reason, there can be no effects on the variables considered in this connection.

In the case of fair value hedges designated to hedge currency risks, the changes in the fair values of the hedged item and the hedging instrument attributable to changes in exchange rates balance out almost completely in the income statement in the same period. As a consequence, these financial instruments are not exposed to currency risks with an effect on profit or loss, or shareholders' equity, either.

Cross-currency swaps are always assigned to non-derivative hedged items, so these instruments likewise do not have any currency effects.

Deutsche Telekom is therefore only exposed to currency risks from specific currency derivatives. Some of these are currency derivatives that are part of an effective cash flow hedge for hedging payment variability resulting from changes in exchange rates in accordance with IFRS 9. Volatility of exchange rates of the currencies on which these transactions are based affects the hedging reserves in shareholders' equity and the fair value of these hedging instruments. Others are currency derivatives that are neither part of one of the hedges defined in IFRS 9 nor part of a natural hedge. These derivatives are used to hedge planned transactions. Changes in exchange rates of the currencies on which such financial instruments are based affect other financial income or expense (net gain/loss from remeasurement of financial assets and liabilities to fair value).

If the euro had gained (lost) 10 % against all currencies at December 31, 2023, the hedging reserves in shareholders' equity and the fair values of the hedging instruments before taxes would have been EUR 173 million higher (lower) (December 31, 2022: EUR 11 million higher (lower)). The hypothetical effect of EUR 173 million on profit or loss primarily results from the currency sensitivities EUR/USD: EUR 176 million, EUR/GBP: EUR -5 million, and EUR/CHF: EUR 2 million. If the euro had gained (lost) 10 % against all currencies at December 31, 2023, other financial income/expense and the fair value of the hedging instruments before taxes would have been EUR 41 million higher (lower) (December 31, 2022: EUR 54 million lower (higher)). The hypothetical effect on profit or loss of EUR 41 million primarily results from the currency sensitivities EUR/USD: EUR -36 million, EUR/GBP: EUR 29 million, EUR/PLN: EUR 27 million, and EUR/HUF: EUR 18 million.

**Interest rate risks.** Deutsche Telekom is exposed to interest rate risks, mainly in the euro zone and in the United States. The interest rate risks are actively managed as part of the interest rate management activities. For the debt position in euros a maximum variable percentage is set on an annual basis, taking into account the planned finance costs. The debt position of T-Mobile US in U.S. dollars is primarily determined through partially cancelable, fixed-income debt instruments. The composition of the liabilities portfolio (ratio of fixed to variable) is managed by issuing non-derivative financial instruments and, where necessary, also deploying derivative financial instruments.

Including derivative hedging instruments, an average of 15 % (2022: 44 %) of the debt position denominated in euros had a variable rate of interest in 2023. In U.S. dollars, the variable percentage – compared to 2022 – remained at 0 %.

Interest rate risks are presented by way of sensitivity analyses in accordance with IFRS 7. These show the effects of changes in market interest rates on interest payments, interest income and expense, other income components, and, if appropriate, shareholders' equity. The interest rate sensitivity analyses are based on the following assumptions: Changes in the market interest rates of non-derivative financial instruments with fixed interest rates only affect income if these are measured at their fair value. As such, all financial instruments with fixed interest rates that are carried at amortized cost are not subject to interest rate risk as defined in IFRS 7.

In the case of fair value hedges designated for hedging interest rate risks, the changes in the fair values of the hedged item and the hedging instrument attributable to changes in interest rates balance out almost completely in the income statement in the same period. This means that interest-rate-based changes in the measurement of the hedged item and the hedging instrument largely do not affect income and are therefore not subject to interest rate risk.

In the case of interest rate derivatives in fair value hedges which are not designated as hedged items in an aggregated risk position, however, changes in market interest rates affect the amount of interest payments and, as a consequence, have an effect on interest income and are therefore included in the calculation of income-related sensitivities.

Changes in the market interest rate regarding financial instruments that were designated as hedging instruments in a cash flow hedge to hedge payment variability resulting from changes in interest rates affect the hedging reserve in shareholders' equity and are therefore taken into consideration in the equity-related sensitivity calculations.

Changes in market interest rates affect the interest income or expense of non-derivative variable-interest financial instruments, the interest payments of which are not designated as hedged items of cash flow hedges against interest rate risks. As a consequence, they are included in the calculation of income-related sensitivities.

In addition, changes in the market interest rate had an impact on the carrying amount of trade receivables recognized at fair value and originated loans and other receivables. However, this variability is not managed.

Changes in the market interest rate regarding interest rate derivatives (interest rate swaps, cross-currency swaps) that are not part of a hedging relationship as set out in IFRS 9 affect other financial income or expense and are therefore taken into consideration in the income-related sensitivity calculations. Currency derivatives are not exposed to interest rate risks and therefore do not affect the interest rate sensitivities.

If the market interest rates had been 100 basis points higher at December 31, 2023, profit or loss before taxes would have been EUR 19 million (December 31, 2022: EUR 270 million lower) higher. If the market interest rates had been 100 basis points lower at December 31, 2023, profit or loss before taxes would have been EUR 24 million (December 31, 2022: EUR 271 million higher) lower. The hypothetical effect of EUR 19 million/EUR -24 million on profit or loss primarily results from potential effects of EUR 26 million/EUR -26 million from interest rate derivatives. Potential effects from interest rate derivatives are partially balanced out by the contrasting performance of non-derivative financial instruments, which cannot, however, be shown due to applicable accounting standards. The effects from the options embedded in the bonds issued by T-Mobile US are not included in this simulation. The resulting sensitivities are set out in the above table "Sensitivities of the carrying amounts of the financial assets and financial liabilities assigned to Level 3 depending on unobservable inputs." However, the effects from the other financial instruments assigned to Level 3 described above are included. If the market interest rates had been 100 basis points higher (lower) at December 31, 2023, the hedging and revaluation reserves in equity before taxes would have been EUR 922 million higher (EUR 922 million lower) (December 31, 2022: EUR 538 million higher (EUR 540 million lower)). Despite the unusually strong movement in interest rates in the 2023 reporting year, a sensitivity of 100 basis points is still appropriate, since Deutsche Telekom considers this high volatility to be an exception.

**Other price risks.** As part of the presentation of market risks, IFRS 7 also requires disclosures on how hypothetical changes in risk variables affect the price of financial instruments. Important risk variables are stock exchange prices or indexes.

If the share price of T-Mobile US had been 10 % higher (lower) at December 31, 2023, the fair value of options held for the purchase of shares in T-Mobile US would have been EUR 102 million higher (EUR 100 million lower) (December 31, 2022: EUR 346 higher (EUR 342 million lower)). In addition, aside from the value-creating factors in the financial instruments assigned to Level 3 described above, there were no other price risks at the reporting date.

Deutsche Telekom is exposed to a credit risk from its operating activities and certain financing activities. As a rule, transactions with regard to financing activities are only concluded with counterparties that have at least a credit rating of BBB+/Baa1, in connection with active limit management. In addition, we have concluded collateral agreements for our derivative transactions. At the level of operations, the outstanding debts are continuously monitored in each area, i.e., locally. Credit risks are taken into account through allowances calculated at portfolio level. The solvency of the business with corporate customers, especially international carriers, is monitored separately. In terms of the overall risk exposure from the credit risk, however, the receivables from these counterparties are not so extensive as to justify extraordinary concentrations of risk.

**Maximum credit risk of financial assets<sup>a</sup>**

millions of €

Classes of financial instruments (IFRS 7)	Measurement category (IFRS 9)	2023	2022
Originated loans and other receivables	AC	6,538	6,341
	FVTPL	652	646
Cash and cash equivalents	AC	7,274	5,792
Trade receivables	AC	7,706	6,969
	FVOCI	8,446	9,841
Contract assets (IFRS 15)	n.a.	2,426	2,410
Lease receivables	n.a.	197	205

<sup>a</sup> Including financial assets reported under assets directly associated with non-current assets and disposal groups held for sale.

**Development of allowances<sup>a</sup>**

millions of €

	General approach									Simplified approach			
	12-month expected credit losses			Lifetime expected credit losses						Trade receivables	Contract assets	Lease assets	
	Stage 1 – No change in credit risk since initial recognition			Stage 2 – Significant increase in credit risk since initial recognition, not credit-impaired			Stage 3 – Credit-impaired at the reporting date (not purchased or originated credit-impaired)						
	Cash and cash equivalents	Originated loans and other receivables		Cash and cash equivalents	Originated loans and other receivables		Cash and cash equivalents	Originated loans and other receivables		AC	FVOCI	n.a.	n.a.
AC	AC	FVOCI	AC	AC	FVOCI	AC	AC	FVOCI	AC	FVOCI	n.a.	n.a.	
<b>January 1, 2023</b>	0	(3)	0	0	0	0	0	(21)	0	(1,081)	(443)	(45)	0
Reclassification due to a change in business model													
Additions								(12)		(528)	(735)	(120)	
Use										253	786	72	
Reversal								1		185	0	46	
Other										(3)			
Foreign currency effect										(11)	14		
<b>December 31, 2023</b>	0	(3)	0	0	0	0	0	(32)	0	(1,185)	(378)	(47)	0

<sup>a</sup> Including financial assets reported under assets directly associated with non-current assets and disposal groups held for sale.

There were no material transfers in the general approach.

**Credit rating of financial assets measured at amortized cost or at fair value through other comprehensive income<sup>a</sup>**

millions of €

	Dec. 31, 2023				Dec. 31, 2022			
	Contractual obligations fulfilled to date	Disruptions in performance already occurred	Non-performing	Total	Contractual obligations fulfilled to date	Disruptions in performance already occurred	Non-performing	Total
<b>General approach (short term)</b>								
12-month expected credit losses (stage 1)	11,914			11,914	10,257			10,257
Lifetime expected credit losses								
Significant increase in credit risk, but not credit-impaired (stage 2)		25		25		85		85
Credit-impaired at the reporting date, but not purchased or originated credit-impaired (stage 3)			111	111			64	64
	11,914	25	111	12,050	10,257	85	64	10,406
<b>General approach (long term)</b>								
12-month expected credit losses (stage 1)	1,796			1,796	1,716			1,716
Lifetime expected credit losses								
Significant increase in credit risk, but not credit-impaired (stage 2)		1		1		1		1
Credit-impaired at the reporting date, but not purchased or originated credit-impaired (stage 3)			1	1			0	0
	1,796	1	1	1,798	1,716	1	0	1,717
<b>Simplified approach</b>								
Trade receivables	15,307	728	1,303	17,338	16,180	649	1,063	17,892
Contract assets	2,458	7	8	2,473	2,386	59	9	2,454
Lease receivables	197			197	205			205
	17,962	735	1,311	20,008	18,771	708	1,072	20,551
<b>Financial assets that are purchased or originated credit-impaired</b>								
Receivables	0			0	0			0
	31,672	761	1,423	33,856	30,744	794	1,136	32,674

<sup>a</sup> Including financial assets reported under assets directly associated with non-current assets and disposal groups held for sale.

**Offsetting of financial instruments**

millions of €

	Dec. 31, 2023				Dec. 31, 2022			
	Trade receivables	Trade payables	Derivative financial assets	Derivative financial liabilities	Trade receivables	Trade payables	Derivative financial assets	Derivative financial liabilities
Gross amounts subject to enforceable master netting arrangements or similar agreements	614	509	981	2,479	578	499	1,550	2,830
Amounts set off in the statement of financial position in accordance with IAS 32.42	(63)	(63)			(74)	(74)		
<b>Net amounts presented in the statement of financial position</b>	<b>551</b>	<b>446</b>	<b>981</b>	<b>2,479</b>	<b>504</b>	<b>425</b>	<b>1,550</b>	<b>2,830</b>
<b>Amounts subject to enforceable master netting arrangements or similar agreements and not meeting all offsetting requirements in accordance with IAS 32.42</b>								
Of which: amounts related to recognized financial instruments	(21)	(21)	(941)	(941)	(21)	(21)	(1,414)	(1,414)
Of which: amounts related to financial collateral (including cash collateral)			(37)	(1,512)			(134)	(1,392)
<b>Net amounts</b>	<b>530</b>	<b>425</b>	<b>3</b>	<b>26</b>	<b>483</b>	<b>404</b>	<b>2</b>	<b>24</b>

Offsetting is applied in particular to receivables and liabilities at Deutsche Telekom AG and Telekom Deutschland GmbH for the routing of international calls via the fixed network and for roaming fees in the mobile network.

In line with the contractual provisions, in the event of insolvency all derivatives with a positive or negative fair value that exist with the respective counterparty are offset against each other, leaving a net receivable or liability. The net amounts are normally recalculated every bank working day and offset against each other. When the netting of the positive and negative fair values of all derivatives was positive from Deutsche Telekom's perspective, the counterparty provided Deutsche Telekom with cash pursuant to the collateral contracts mentioned in Note 1 "Cash and cash equivalents." The credit risk was thus further reduced.

When the netting of the positive and negative fair values of all derivatives was negative from Deutsche Telekom's perspective, Deutsche Telekom provided cash collateral to counterparties pursuant to collateral agreements. The net amounts are normally recalculated every bank working day and offset against each other. The cash collateral paid is offset by corresponding negative net derivative positions of EUR 1,513 million at the reporting date, which is why it was not exposed to any credit risks in this amount at the reporting date.

For further information, please refer to Note 11 "[Other financial assets.](#)"

The collateral paid is reported under originated loans and other receivables within other financial assets. On account of its close connection to the corresponding derivatives, the collateral paid constitutes a separate class of financial assets. Likewise, the collateral received, which is reported as other interest-bearing liabilities under financial liabilities, constitutes a separate class of financial liabilities on account of its close connection to the corresponding derivatives. There were no other significant agreements reducing the maximum exposure to the credit risk of financial assets. The maximum exposure to the credit risk of the other financial assets thus corresponds to their carrying amounts.

In accordance with the terms of the bonds issued by T-Mobile US, T-Mobile US has the right to terminate the majority of bonds prematurely under specific conditions. The rights of early termination constitute embedded derivatives and are presented separately as derivative financial assets in the consolidated statement of financial position. Since they are not exposed to any credit risk, they constitute a separate class of financial instruments. Please refer to the explanations above for more information on the energy forward agreements for which no collateral is provided. There is also no credit risk on embedded derivatives held.

No collateral is provided for the options received from third parties for the purchase or sale of shares in subsidiaries and associates.

At the reporting date, cash and cash equivalents of EUR 64 million when translated into euros were pledged as collateral for liabilities issued by T-Mobile US with the right of creditors to priority repayment in the event of default. This cash collateral is not exposed to any significant credit risk.

For further information, please refer to Note 13 "[Financial liabilities and lease liabilities.](#)"

### Liquidity risks

For further information, please refer to Note 13 "[Financial liabilities and lease liabilities.](#)"

### Hedge accounting

**Fair value hedges.** To hedge the fair value risk of fixed-income liabilities, Deutsche Telekom primarily uses interest rate swaps and forward interest rate swaps (pay variable, receive fixed) denominated in EUR and USD. Fixed-income bonds denominated in EUR and USD were designated as hedged items. The changes in the fair values of the hedged items resulting from changes in the EURIBOR or USD SOFR swap rate are offset against the changes in the value of these interest rate swaps. In addition, cross-currency swaps mainly in the EUR/USD and EUR/GBP currency pairs, are designated as fair value hedges, which convert fixed-income foreign currency bonds into variable-interest EUR bonds to hedge the interest rate and currency risk. The changes in the fair value of the hedged items resulting from changes in the USD SOFR and GBP SONIA swap rate as well as the USD and GBP exchange rate, are offset against the changes in the value of the cross-currency swaps. The aim of the fair value hedges is thus to transform the fixed-income bonds into variable-interest debt, thus hedging the fair value (interest rate risk and currency risk) of these financial liabilities. Credit risks are not part of the hedging and, on account of Deutsche Telekom's rating, have only an immaterial effect on the changes in the fair value of the hedged item.

**Cash flow hedges – interest rate risks.** Deutsche Telekom mainly uses payer interest rate swaps and forward-payer interest rate swaps (pay fixed, receive variable) to hedge the cash flow risk of existing and future debt. The interest payments to be made in the hedging period are the hedged items and are recognized in profit or loss in the same period. Hedged items may be individual liabilities, portfolios of liabilities, or combinations of liabilities and derivatives (aggregate risk exposure). The changes in the cash flows of the hedged items resulting from changes in the USD SOFR rate and the EURIBOR rate are offset against the changes in the cash flows of the interest rate swaps. The aim of this hedging is to transform the variable-interest bonds into fixed-income debt, thus hedging the cash flows of the financial liabilities. Credit risks are not part of the hedging and, on account of Deutsche Telekom's rating, have only an immaterial effect on the changes in the fair value of the hedged item.

**Cash flow hedges – currency risks.** Deutsche Telekom entered into currency derivative and cross-currency swaps (pay fixed, receive variable) to hedge cash flows not denominated in a functional currency. The payments in foreign currency to be made in the hedging period are the hedged items and are recognized in profit or loss in the same period. The terms of the hedging relationships will end in the years 2024 through 2033. In the case of rolling cash flow hedges for hedging currency risks, short-term currency forwards are entered into, which are then extended by means of follow-up transactions.

At each reporting date, the effectiveness of the fair value and cash flow hedges is reviewed prospectively based on the main contractual features and recognized by using the dollar offset test. All hedging relationships were sufficiently effective as of the reporting date.

**Hedging of a net investment.** To hedge the net investment in T-Mobile US against fluctuations in the U.S. dollar spot rate, a net investment hedge of a nominal USD 2 billion was designated in the reporting period. Short-term currency forwards are used as hedging instruments (“pay U.S. dollars – receive euros”) with a change in the U.S. dollar spot rate being designated as the hedged risk. Any changes in value of the hedged net investment resulting from changes in the U.S. dollar spot exchange rate are offset by changes in the value of the currency forwards. Hedging of the net investment in T-Mobile US is planned to be continued until 2027. To this end, short-term follow-up transactions are to be concluded when the hedging instruments expire. At each reporting date, effectiveness is reviewed prospectively based on the key characteristics and is determined retrospectively in the form of a dollar offset test. The net investment hedge was sufficiently effective as of the reporting date. The hedges of the net investment in T-Mobile US against fluctuations in the U.S. dollar spot rate de-designated in prior periods did not generate any effects in 2023. The amounts recognized under cumulative other comprehensive income would be reclassified to profit or loss in the event of the disposal of T-Mobile US.

#### Conditions of derivative financial instruments in hedging relationships<sup>a</sup>

millions of €

	2024					Average margin received
	Nominal amount	Average hedge rate	Average swap rate received	Average swap rate paid	Average margin paid	
<b>Fair value hedges</b>						
<b>Interest rate risk</b>						
EURIBOR	1,813		0.7640 %	6M EURIBOR	0.3300 %	
USD SOFR						
<b>Cross-currency risk</b>						
USD/EUR						
Other						
<b>Cash flow hedges</b>						
<b>Currency risk</b>						
<b>Buy</b>						
USD/EUR	245	1.0543				
Other	45					
<b>Sell</b>						
USD/EUR	136	1.2346				
Other	18					
<b>Interest rate risk</b>						
EURIBOR	1,479		6M EURIBOR	-0.1956 %		0.2966 %
EURIBOR						
USD SOFR						
<b>Net investment hedges</b>						
<b>Currency risk</b>						
<b>Sell</b>						
USD/EUR	1,863	1.0593				

<sup>a</sup> In addition to the main hedges in euros and U.S. dollars, there are also hedges in the following currencies: pound sterling, Swiss francs, Norwegian kroner, Hong Kong dollars, and Australian dollars, which cumulate under “Other.”



millions of €						
2025–2028						
	Nominal amount	Average hedge rate	Average swap rate received	Average swap rate paid	Average margin paid	Average margin received
<b>Fair value hedges</b>						
<b>Interest rate risk</b>						
EURIBOR	4,858		1.2757 %	6M EURIBOR	0.6466 %	
USD SOFR	1,646		4.0084 %	3M USD SOFR	1.6215 %	
<b>Cross-currency risk</b>						
USD/EUR						
Other	693					
<b>Cash flow hedges</b>						
<b>Currency risk</b>						
<b>Buy</b>						
USD/EUR	168	1.0963				
Other	110					
<b>Sell</b>						
USD/EUR	220	1.2361				
Other						
<b>Interest rate risk</b>						
EURIBOR	3,089		6M EURIBOR	2.2583 %		0.1382 %
EURIBOR	519		3M EURIBOR	2.9170 %		0.0000 %
USD SOFR	2,700		3M USD SOFR	4.7500 %		1.9876 %
<b>Net investment hedges</b>						
<b>Currency risk</b>						
<b>Sell</b>						
USD/EUR						

millions of €						
2029 and thereafter						
	Nominal amount	Average hedge rate	Average swap rate received	Average swap rate paid	Average margin paid	Average margin received
<b>Fair value hedges</b>						
<b>Interest rate risk</b>						
EURIBOR	3,500		1.7664 %	6M EURIBOR	1.0601 %	
USD SOFR	2,638		4.2858 %	3M USD SOFR	2.0659 %	
<b>Cross-currency risk</b>						
USD/EUR						
Other	1,557	1.1221	8.7500 %	3M EURIBOR	5.8751 %	
Other	1,220					
<b>Cash flow hedges</b>						
<b>Currency risk</b>						
<b>Buy</b>						
USD/EUR	1,758	1.3389	8.7791 %	7.7807 %		
Other	331					
<b>Sell</b>						
USD/EUR						
Other						
<b>Interest rate risk</b>						
EURIBOR	3,791		6M EURIBOR	3.1108 %		0.3427 %
EURIBOR	4,477		3M EURIBOR	3.4073 %		0.8365 %
USD SOFR						
<b>Net investment hedges</b>						
<b>Currency risk</b>						
<b>Sell</b>						
USD/EUR						

**Nominal and carrying amounts of derivative financial instruments in hedging relationships<sup>a</sup>**

millions of €

	2023					2022					Disclosure of the hedging instruments in the statement of financial position
	Nominal amount of the hedging instruments		Carrying amount of the hedging instruments		Change in value of the hedging instruments in the reporting period for determining ineffectiveness	Nominal amount of the hedging instruments		Carrying amount of the hedging instruments		Change in value of the hedging instruments in the reporting period for determining ineffectiveness	
	in foreign currencies	in euros	Financial assets	Financial liabilities		in foreign currencies	in euros	Financial assets	Financial liabilities		
<b>Fair value hedges</b>											
<b>Interest rate risk</b>		14,454		(1,538)	409		19,552		(2,101)	(3,030)	Other financial assets/ financial liabilities
Of which: EUR		10,171					13,825				
Of which: USD	4,733	4,284				6,115	5,727				
<b>Cross-currency risk</b>		3,470	15	(295)	111		4,071		(376)	(596)	Other financial assets/ financial liabilities
Of which: USD	1,747	1,557				1,747	1,557				
Of which: other		1,913					2,514				
<b>Cash flow hedges</b>											
<b>Currency risk</b>		3,032	287	(16)	(124)		3,334	466	(29)	187	Other financial assets/ financial liabilities
<b>Buy</b>											
USD/EUR	2,757	2,171				2,806	2,220				
Other		487					495				
<b>Sell</b>											
USD/EUR	396	356				622	590				
Other		18					29				
<b>Interest rate risk</b>		16,056	302	(366)	(163)		11,171	568	(15)	582	Other financial assets/ financial liabilities
USD SOFR	2,983	2,700				1,500	1,405				
EURIBOR		13,356					9,766				
<b>Net investment hedges</b>											
<b>Currency risk</b>		1,863									Other financial assets/ financial liabilities
<b>Sell</b>											
USD/EUR	2,000	1,863	54	0	78						

<sup>a</sup> In this and the following tables on hedging relationships, losses are shown as negative amounts unless explicitly stated otherwise.

## Disclosures on hedged items in hedging relationships

millions of €

		Carrying amount of the hedged items (including cumulative fair value hedge adjustments)	Cumulative adjustments to the carrying amount of the existing fair value hedges	Change in the fair value of the hedged items for determining ineffectiveness in the reporting period	Remaining balance of cumulative adjustments to the carrying amount of the terminated fair value hedges	Balance of amounts recognized in other comprehensive income relating to hedged risk (existing hedging relationships) <sup>a</sup>	Balance of amounts recognized in other comprehensive income relating to hedged risk (terminated hedging relationships) <sup>a</sup>	Presentation of the hedged items in the statement of financial position
<b>Fair value hedges</b>								
Interest rate risk	2023	13,011	(1,551)	(431)	189	n.a.	n.a.	Financial liabilities
	2022	17,856	(1,975)	3,041	259	n.a.	n.a.	
Cross-currency risk	2023	3,099	(425)	(126)	0	n.a.	n.a.	n.a.
	2022	3,208	(781)	622	0	n.a.	n.a.	
<b>Cash flow hedges</b>								
Currency risk	2023	n.a.	n.a.	121	n.a.	142	5	n.a.
	2022	n.a.	n.a.	(188)	n.a.	192	7	
Interest rate risk	2023	n.a.	n.a.	173	n.a.	(45)	(1,296)	n.a.
	2022	n.a.	n.a.	(574)	n.a.	540	(1,606)	
<b>Net investment hedges</b>								
Currency risk	2023	n.a.	n.a.	(78)	n.a.	872	n.a.	n.a.
	2022	n.a.	n.a.	n.a.	n.a.	794	n.a.	

<sup>a</sup> Figures include non-controlling interests.

## Gains or losses from hedging relationships

millions of €

		Hedge ineffectiveness of existing hedging relationships recognized in profit or loss	Changes in fair value recognized directly in other comprehensive income	Amounts reclassified to profit or loss from other comprehensive income due to occurrence of the hedged items (existing hedging relationships) <sup>a</sup>	Amounts reclassified to profit or loss from other comprehensive income due to occurrence of the hedged items (terminated hedging relationships) <sup>a</sup>	Total change in other comprehensive income	Presentation of the reclassified effective amounts in profit or loss	Presentation of the ineffectiveness in profit or loss
<b>Fair value hedges</b>								
Interest rate risk	2023	(22)	n.a.	n.a.	n.a.	n.a.	n.a.	Other financial income (expense)
	2022	11	n.a.	n.a.	n.a.	n.a.	n.a.	
Cross-currency risk	2023	(15)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	2022	26	n.a.	n.a.	n.a.	n.a.	n.a.	
<b>Cash flow hedges</b>								
Currency risk	2023	(3)	(122)	71	(1)	(52)	Net revenue/goods and services purchased/other financial income (expense)	Other financial income (expense)
	2022	(1)	188	(125)	(1)	62	Interest expense	
Interest rate risk	2023	10	(174)	(198)	98	(274)	Interest expense	n.a.
	2022	8	575	7	241	823	Interest expense	
<b>Net investment hedges</b>								
Currency risk	2023		78			78	Other financial income (expense)	n.a.
	2022							

<sup>a</sup> Negative amounts represent gains in the consolidated income statement.

The recorded ineffectiveness in the consolidated income statement mainly results from the different discount rates of the hedged items (fixed-income) and designated hedging instruments (fixed-income and variable-interest). Furthermore, cross-currency interest rate hedges are impacted by effects from cross-currency basis spreads, which are included in the hedging instruments, but not in the hedged items. For some hedges, the characteristics of hedging instruments and hedged items differ, resulting in ineffectiveness. In the case of interest rate hedges on highly probable future borrowings, ineffectiveness could arise if time shifts occur. The relative amounts of the ineffectiveness are not expected to increase significantly in the future. Furthermore, there are no other potential sources of ineffectiveness.

#### Reconciliation of total other comprehensive income from hedging relationships<sup>a</sup>

millions of €

	Designated risk components (effective portion)			Total designated risk components	Hedging costs <sup>b</sup>	Total other comprehensive income
	Cash flow hedges		Net investment hedges			
	Currency risk	Interest rate risk	Currency risk			
<b>At January 1, 2023</b>	<b>199</b>	<b>(1,066)</b>	<b>794</b>	<b>(73)</b>	<b>35</b>	<b>(38)</b>
Changes recognized directly in equity	(122)	(174)	78	(218)	(25)	(243)
Reclassification to profit or loss due to occurrence of the hedged item	70	(100)		(30)	1	(29)
<b>At December 31, 2023</b>	<b>147</b>	<b>(1,340)</b>	<b>872</b>	<b>(321)</b>	<b>11</b>	<b>(310)</b>

<sup>a</sup> Figures include non-controlling interests.

<sup>b</sup> The hedging costs relate entirely to cross-currency basis spreads.

#### Transfer of financial assets

##### Factoring transactions involving the splitting of significant risks and rewards with control remaining at Deutsche Telekom

Deutsche Telekom is party to factoring agreements under which trade receivables from consumers and business customers relating to both charges already due and charges from sales of handsets payable over a period of up to two years are sold on a revolving basis. In two transactions, subsidiaries of Deutsche Telekom sell receivables to structured entities that are also subsidiaries of Deutsche Telekom and were established for the sole purpose of these factoring agreements. The required funding is provided to these structured entities in the context of Deutsche Telekom's general Group financing. These structured entities have no assets and liabilities other than those resulting from the purchase and sale of the receivables under factoring agreements. The structured entities transfer the legal role of creditor for the receivables in each case to a bank that performs this role on behalf of the respective investors who have beneficial ownership of the receivables (administrative agent). For both agreements, these investors are eleven banks and seven other structured entities altogether. Deutsche Telekom does not consolidate these seven other structured entities because it has no control over their relevant activities. The seven other structured entities are financed through the issue of commercial paper to third parties outside the Group or, alternatively, through a credit facility provided in each case by a bank. The receivables being sold are selected from the relevant portfolios, either in an automated process in compliance with the eligibility criteria set out in the receivables purchase agreement or based on the decision of the relevant structured entity taking an obligatory minimum volume into account. Receivables are sold on a daily basis and billed on a monthly basis. The purchase price up to a specific amount will be paid out immediately upon sale; remaining portions of the purchase price will only be paid to the extent that the volume of receivables sold in the relevant portfolio decreases further accordingly or the characteristics of the receivables change. In the transactions, Deutsche Telekom is obligated to buy back aged receivables and receivables for which a write-off is imminent at nominal value. Such buy-backs do not affect the allocation of the credit risk-related losses in any way, as the latter would be passed back to the buyers in line with the agreed risk allocation. The cash flows resulting from the buy-backs normally occur in the month following the buy-back. None of the structured entities has business activities other than the purchase or sale of trade receivables or other investments. In none of the transactions is Deutsche Telekom exposed to risks other than the credit risk and late-payment risk resulting from the sold receivables agreed in the respective agreement. The risks relevant for the risk assessment with respect to the sold receivables are based on the credit risk and the late-payment risk. Deutsche Telekom bears certain portions of the credit risk in the individual transactions. The other credit risk-related losses are borne by the respective buyers. The late-payment risk in all transactions continues to be borne in full by Deutsche Telekom. Substantially all the risks and rewards of ownership of the receivables were neither transferred nor retained (allocation of the material risks and rewards between Deutsche Telekom and the buyers). Deutsche Telekom continues to perform servicing for the receivables sold. The buyers have the right to transfer the servicing to third parties for no specific reason. Although Deutsche Telekom is not authorized to use the receivables sold other than in its capacity as servicer, it retains control over the receivables sold because the buyers and the structured entities do not have the practical ability to resell the purchased receivables. At the time the receivables are sold, the fair value of the expected losses is expensed. Expected future payments are presented as a component of the associated liability. Certain portions of the purchase price are initially held back and, depending on the amount of the actual defaults, are only paid to Deutsche Telekom at a later date. To the extent that such portions of the purchase price are expected to be received in the future, they are recognized at fair value. Deutsche Telekom continues to recognize the trade receivables sold to the extent of its continuing involvement, i.e., in the maximum amount with which it is still liable for the credit risk and late-payment risk inherent in the receivables sold, and recognizes a corresponding associated liability presented in liabilities to banks. The receivables and the associated

liability are then derecognized in the extent to which Deutsche Telekom's continuing involvement is reduced (particularly when payment is made by the customer). The carrying amount of the receivables is subsequently reduced by the extent to which the actual losses to be borne by Deutsche Telekom resulting from the credit risk and the late-payment risk exceed the losses initially expected. This amount is recognized as an expense. Please refer to the table below for the disclosures on the continuing involvement resulting from the receivables sold.

#### Transfer of financial assets

millions of €

	Allocation of substantially all risks and rewards	
	Retention of control	
	Partial or full transfer of the credit risk and full retention of the late-payment risk	
	With the involvement of structured entities	
	2023	2022
	2024–2027	2023–2026
End of contract terms		
Contractual maximum volume	8,891	9,014
Purchase prices to be paid immediately	2,036	2,107
Volume of receivables sold as of the reporting date	2,689	2,812
Scope of volume of receivables sold in the reporting year	1,272–1,805	658–2,138
Provision for receivables management		
<b>Continuing involvement</b>		
Maximum credit risk	550	562
Maximum late-payment risk	149	169
Carrying amount of the continuing involvement (asset side)	520	525
Carrying amount of the associated liability	666	658
Fair value of the associated liability	145	133
<b>Buy-back agreements</b>		
Nominal value of receivables that can be bought back at the nominal amount	2,689	2,812
<b>Purchase price discounts recognized in profit or loss, program fees, and pro rata loss allocations</b>		
Current reporting year	305	307
Cumulative since commencement of the agreement	1,865	1,561

#### 44 Capital management

The overriding aim of Deutsche Telekom's capital management is to strike a balance between the contrasting expectations of the following stakeholders, so that sufficient funding is available for an attractive dividend, debt repayment, responsible staff restructuring, and new investment in a sustainable and positive customer experience:

- **Shareholders** expect an appropriate, reliable return on their capital employed.
- **Providers of debt capital** expect an appropriate return and that Deutsche Telekom is able to repay its debts.
- **Employees** expect jobs that are secure, prospects for the future, and that any necessary staff restructuring will be done in a responsible manner.
- **“Entrepreneurs within the enterprise”** expect sufficient investment funding to be able to shape Deutsche Telekom's future business and develop products, innovations, and services for the customer.
- **Society** expects Deutsche Telekom to do everything within its power to protect the environment, encourage fair and democratic co-existence, and shape the digital transformation in a responsible manner.

An important key performance indicator for the capital market communication with investors, analysts, and rating agencies is financial flexibility, which Deutsche Telekom determines based on relative debt, i.e., net debt to adjusted EBITDA. This ratio stood at 2.82x at December 31, 2023 (December 31, 2022: 3.07x). Deutsche Telekom is expected to leave the target range for relative debt of 2.25x to 2.75x on account of the business combination of T-Mobile US and Sprint until the end of 2024. Adjusted EBITDA and net debt are non-GAAP figures not governed by International Financial Reporting Standards, and their definition and calculation may vary from one company to another.

		2023	2022	2021
<b>Relative debt<sup>a</sup></b>				
	Net debt	<b>2.82x</b>	3.07x	3.06x
	EBITDA (adjusted for special factors)			
<b>Equity ratio</b>	%	<b>31.4</b>	29.2	28.9

<sup>a</sup> Relative debt is calculated on a quarterly basis.

A further essential key performance indicator is the equity ratio, i.e., the ratio of shareholders' equity to total assets as shown in the consolidated statement of financial position. The equity ratio was 31.4 % as of December 31, 2023 (December 31, 2022: 29.2 %). The target range remains unchanged between 25 and 35 %. In addition, Deutsche Telekom maintains a liquidity reserve covering all maturities of the next 24 months.

For further information, please refer to the sections "Management of the Group" and "Development of business in the Group" in the combined management report.

The following table shows the calculation of net debt from the statement of financial position values.

millions of €	Dec. 31, 2023	Dec. 31, 2022	Change	Change %	Dec. 31, 2021
Bonds and other securitized liabilities	87,773	93,802	(6,029)	(6.4)	93,857
Liabilities to banks	3,560	4,122	(562)	(13.6)	4,003
Other financial liabilities	13,189	15,107	(1,918)	(12.7)	13,730
Lease liabilities	40,792	41,063	(271)	(0.7)	33,767
<b>Financial liabilities and lease liabilities</b>	<b>145,314</b>	<b>154,093</b>	<b>(8,779)</b>	<b>(5.7)</b>	<b>145,357</b>
Accrued interest	(1,009)	(999)	(10)	(1.0)	(1,012)
Other	(967)	(805)	(162)	(20.1)	(855)
<b>Gross debt</b>	<b>143,338</b>	<b>152,289</b>	<b>(8,951)</b>	<b>(5.9)</b>	<b>143,490</b>
Cash and cash equivalents	7,274	5,767	1,507	26.1	7,617
Derivative financial assets	1,780	2,273	(493)	(21.7)	2,762
Other financial assets	2,005	1,824	181	9.9	969
<b>Net debt<sup>a</sup></b>	<b>132,279</b>	<b>142,425</b>	<b>(10,146)</b>	<b>(7.1)</b>	<b>132,142</b>
Lease liabilities <sup>b</sup>	38,533	38,692	(159)	(0.4)	31,493
<b>Net debt AL</b>	<b>93,746</b>	<b>103,733</b>	<b>(9,987)</b>	<b>(9.6)</b>	<b>100,649</b>

<sup>a</sup> Including net debt reported under liabilities directly associated with non-current assets and disposal groups held for sale.

<sup>b</sup> Excluding finance leases at T-Mobile US.

## 45 Related-party disclosures

### Federal Republic of Germany and other related parties

The Federal Republic of Germany is both a direct and an indirect shareholder (via KfW Bankengruppe) and holds 30.5 % (December 31, 2022: 30.5 %) of the share capital of Deutsche Telekom AG. In previous years, this resulted in the Federal Republic of Germany representing a solid majority at the shareholders' meetings of Deutsche Telekom AG due to its level of attendance, giving it control over Deutsche Telekom. Thanks to higher levels of attendance, the Federal Republic has not had a majority of the voting rights at the shareholders' meetings of Deutsche Telekom AG since 2016. As such, it is no longer deemed to have control over Deutsche Telekom, but rather only a significant influence. Therefore, the Federal Republic and the companies controlled and jointly controlled by the Federal Republic, but not the companies over which the Federal Republic can exercise a significant influence, are classified as related parties of Deutsche Telekom. In the course of business, Deutsche Telekom deals directly with these companies, and with authorities and other government agencies as an independent party. Deutsche Telekom participates in the spectrum auctions of the Bundesnetzagentur. The acquisition of mobile spectrum through licenses may result in build-out obligations.

The Federal Posts and Telecommunications Agency (Bundesanstalt für Post und Telekommunikation; Federal Agency) has been assigned certain tasks by law that affect cross-company issues at Deutsche Telekom AG, Deutsche Post AG, and Deutsche Bank AG (as legal successor of Deutsche Postbank AG). The Federal Agency's responsibilities include the continuation of the Civil Service Health Insurance Fund (Postbeamtenkrankenkasse), the Recreation Service (Erholungswerk), the Deutsche Bundespost Institution for Supplementary Retirement Pensions for Salaried Employees and Wage Earners (Versorgungsanstalt der Deutschen Bundespost), and the Welfare Service (Betreuungswerk) for Deutsche Telekom AG, Deutsche Post AG, and Deutsche Bank AG, Frankfurt/Main, Germany (as legal successor of Deutsche Postbank AG). The coordination and administrative tasks are performed on the basis of agency agreements. Up to and including the 2012 reporting year, Deutsche Telekom AG maintained a joint pension fund, Bundes-Pensions-Service für Post und Telekommunikation e.V., Bonn (Federal Pension Service for Post and Telecommunications – BPS-PT), together with Deutsche Post AG and Deutsche Bank AG (as legal successor of Deutsche Postbank AG) for civil-servant pension plans. The German Act on the Reorganization of the Civil Service Pension Fund (Gesetz zur Neuordnung der Postbeamtenversorgungskasse – PVKNeuG) transferred the functions of BPS-PT relating to civil-servant pensions (organized within the Civil Service Pension Fund) to the existing Federal Agency effective January 1, 2013. The civil-servant pension functions are therefore performed by the Civil Service Pension Fund as an integral part of the Federal Agency. This joint Civil Service Pension Fund works for the funds of all three companies and also handles the financial administration of the pension plan for the Federal Republic on a trust basis. For the 2023 financial year, Deutsche Telekom made payments in the amount of EUR 81 million (2022: EUR 93 million, 2021: EUR 129 million). Furthermore, payments are made to the Civil Service Pension Fund in accordance with the provisions of the Act on the Reorganization of the Civil Service Pension Fund.

For further information, please refer to Note 15 "[Provisions for pensions and other employee benefits.](#)"

The Federal Republic and the companies controlled and jointly controlled by the Federal Republic are customers or suppliers of Deutsche Telekom and as such have mutual contractual relationships with Deutsche Telekom.

Material revenues, receivables, and liabilities from or to **joint ventures** and **associates** are as follows:

On February 1, 2023, Deutsche Telekom sold 51.0 % of the shares in the cell tower business companies in Germany and Austria (**GD tower companies**). Since then, the stake retained by Deutsche Telekom of 49.0 % has been included in the consolidated financial statements as a joint venture using the equity method. Once the transaction was consummated, Deutsche Telekom leased back the majority of the sold passive network infrastructure in Germany and Austria under a sale-and-leaseback agreement with a non-cancellable lease term of eight years. As of December 31, 2023, there were lease liabilities to the GD tower companies of EUR 4.8 billion. Additionally, there were revenues of EUR 68 million, receivables of EUR 40 million, and liabilities of EUR 45 million from or to the companies.

Revenue generated with the joint venture **GlasfaserPlus** totaled EUR 386 million (2022: EUR 180 million, 2021: n.a.), in particular from the build-out and maintenance of the FTTH network, data processing, telecommunications, as well as consulting services. As of December 31, 2023, receivables amounted to EUR 98 million (December 31, 2022: EUR 62 million) and liabilities to EUR 3 million (December 31, 2022: EUR 0 million). In addition, capitalized contract costs of EUR 6 million (December 31, 2022: EUR 66 million) were recognized.

Revenue generated with the joint venture **Glasfaser NordWest** totaled EUR 87 million (2022: EUR 98 million; 2021: EUR 95 million), in particular from the build-out of the FTTH network and maintenance services as well as data processing services. As of December 31, 2023, receivables amounted to EUR 40 million (December 31, 2022: EUR 10 million) and liabilities to EUR 2 million (December 31, 2022: EUR 2 million). In addition, capitalized contract costs of EUR 65 million (December 31, 2022: EUR 67 million) were recognized. Furthermore, Telekom Deutschland GmbH granted Glasfaser NordWest a shareholder loan of EUR 125 million (December 31, 2022: EUR 125 million).

In the prior year, Glasfaser NordWest concluded a loan agreement with external banks for a volume of EUR 820 million. As a shareholder of Glasfaser NordWest, Telekom Deutschland assumes liability for this loan with its shares in the company by securing liens on these shares and by assigning pro rata (50 %) entitlements arising under the originated shareholder loan. In the event of conditions precedent arising, the shareholders each have also agreed to grant a loan to repay Glasfaser NordWest's existing liabilities of up to EUR 430 million. Utilization is unlikely, since Glasfaser NordWest is expected to meet its obligations and it is unlikely that the conditions precedent of the loan agreement will arise.

There are no material revenues, receivables or liabilities from or to the associate **DIV II**.

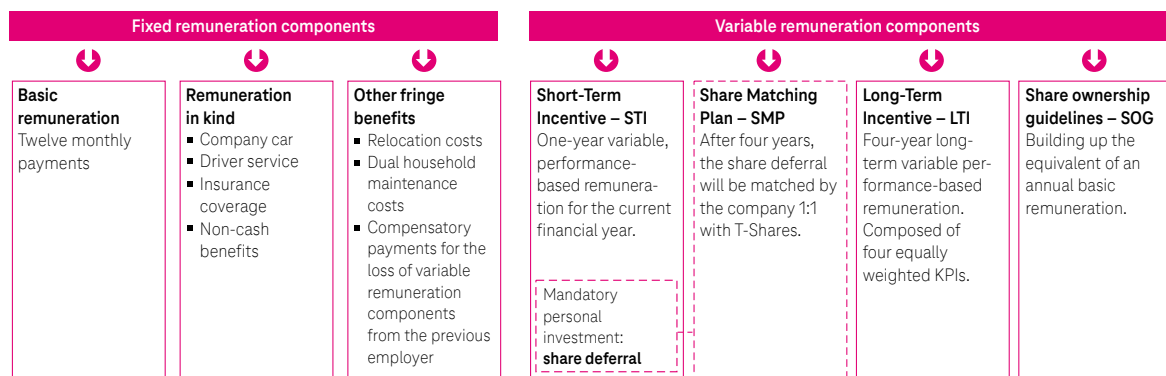
## Related individuals

At the Supervisory Board meeting on February 25, 2021, the Supervisory Board adopted a new Board of Management remuneration system which takes into account the updates to the German Corporate Governance Code as amended on December 16, 2019 and the amendments to the German Stock Corporation Act (ARUG II, the Act Implementing the Second Shareholder Rights Directive). This remuneration system was submitted to a vote at the shareholders' meeting of Deutsche Telekom AG on April 1, 2021 and was approved. After this shareholders' meeting, the Supervisory Board looked into the remuneration system once again and decided on individual modifications, which were presented to the shareholders' meeting on April 7, 2022 and approved by this meeting with a high rate of approval. The detailed presentation of the system for Board of Management and Supervisory Board remuneration, disclosures on the remuneration of each individual Board of Management and Supervisory Board member, and other individual disclosures, form part of the remuneration report published separately by the Board of Management and Supervisory Board in accordance with § 162 of the German Stock Corporation Act (Aktiengesetz – AktG).

Detailed information on the remuneration of the Board of Management and the Supervisory Board is published in the separate [remuneration report](#).

The following graphic provides a simplified, schematic representation of fixed and variable remuneration components:

### Remuneration of the Board of Management



In the reporting year, expenses for short-term benefits payable to members of the Board of Management and the Supervisory Board amounted to EUR 23.6 million (2022: EUR 23.5 million). These include, as Board of Management remuneration, the basic remuneration, the fringe benefits, and the Short-Term Incentive (STI), as well as Supervisory Board remuneration in the form of fixed remuneration, committee remuneration, and meeting attendance fees. Expenses of EUR 2.4 million (2022: EUR 4.5 million) for tranches of Variable II from the previous remuneration system were recorded as long-term benefits. Service cost of EUR 0.3 million (2022: EUR 0.5 million) was recorded for Board of Management pensions. In addition, expenses for share-based remuneration for Board of Management members were incurred in the amount of EUR 12.0 million (2022: EUR 9.6 million), which related to participation in the Share Matching Plan and in the Long-Term Incentive Plan (LTI). No termination benefits were expensed in 2023 or 2022.

For further information, please refer to Note 47 “Share-based payment.”

### Components of the Short-Term Incentive

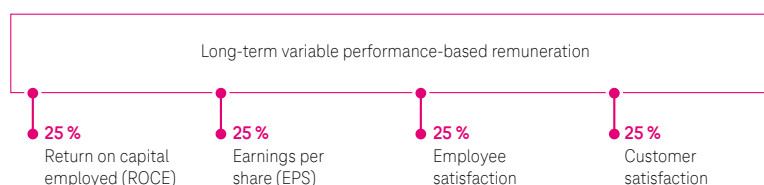
GROUP FINANCIAL TARGETS		+	SEGMENT FINANCIAL TARGETS		+	ESG TARGETS		×	PERFORMANCE FACTOR
% of the target amount			% of the target amount			% of the target amount			Strategic personal target
Service revenue	30 %		Service revenue	33 %	CO <sub>2</sub> emissions	50 %		+ Value adherence	
EBITDA AL (unadjusted)	30 %		EBITDA AL (unadjusted)	33 %	Energy consumption	50 %			
Free cash flow	40 %		Indirect costs AL (adjusted)	33 %					
0 %–150 %			0 %–150 %		0 %–150 %			0.8–1.2	

For details on the financial and non-financial performance indicators relevant for the Short-Term Incentive, please refer to the section “[Management of the Group](#)” in the combined management report.



The expenses recorded as long-term benefits relate to participation in the annually issued four-year tranches of Variable II, which was granted for the last time for the 2020 financial year and has been replaced since the 2021 financial year by the share-based LTI. The following graphic shows the target parameters allocated to Variable II, for each of which target achievement can vary between 0 and 150 %.

#### Components of Variable II



The LTI, granted for the first time in 2021, is based on the share price and is set out in detail together with the Share Matching Plan (SMP) as part of the disclosures on share-based payment.

Details on the components of the Long-Term Incentive Plan can be found in Note 47 "[Share-based payment](#)."

Based on the explanations above, as of December 31, 2023, the obligations from short-term remuneration components for members of the Board of Management and Supervisory Board amounted to EUR 13.3 million (December 31, 2022: EUR 13.9 million) and those from long-term remuneration components to EUR 28.1 million (December 31, 2022: EUR 23.6 million). Furthermore, the present value of the defined benefit obligation (DBO) from the Board of Management pension amounts to EUR 19.8 million (December 31, 2022: EUR 17.3 million).

The remuneration of the Board of Management and the Supervisory Board totaled EUR 38.3 million in the reporting year (2022: EUR 38.1 million).

Since the introduction of the new Board of Management remuneration system in 2021, new members of the Board of Management are no longer entitled to receive a Board of Management pension. Current members of the Board of Management with a contribution-based pension commitment did not receive any contributions for 2022. The pension credit accrued up to December 31, 2020 is fixed and non-forfeitable. Upon retirement, these Board of Management members shall receive their pension credit in the form of a lump sum. A special arrangement applies for the pension commitment of Timotheus Höttges, which is structured as defined benefits and upon his retirement will be paid out in the form of life-long pension payments with a pension for surviving dependents in the form of entitlements for widows and orphans. The pension commitment may be in the form of a life-long retirement pension upon reaching the age of 62 or in the form of an early retirement pension upon reaching the age of 60. Opting for the early retirement pension scheme is connected with actuarial deductions. The maximum pension level of 50 % of annual basic remuneration was reached in 2018. Since then, an annual dynamic increase of 2.4 % has been applied to this level. The reference variable for both the pension level and the dynamic increase is the basic remuneration applicable as of December 31, 2018. The pension payments to be made upon retirement increase dynamically, at a rate of 1 % per year. In the event of a permanent incapacity for work (invalidity), the beneficiary is also entitled to the pension credit accrued. The 2022 shareholders' meeting approved the extension of the pension commitment for Timotheus Höttges to include the option for up to 50 % of the vested pension benefits to be paid as a lump sum, instead of a lifetime retirement pension.

Employees elected to the Supervisory Board of Deutsche Telekom AG continue to be entitled to a regular salary as part of their employment contract. The amount of the remuneration is the adequate compensation for their job or activity within the Company. Besides this, no major transactions took place with related individuals.

The members of the Board of Management and Supervisory Board of Deutsche Telekom AG are members of supervisory boards or management boards of other companies or are shareholders of other companies with which Deutsche Telekom AG maintains relations in the ordinary course of business.

All related-party transactions are performed on an arm's length basis. The arm's length principle is documented and monitored on an ongoing basis and any necessary adjustments are made in a timely manner.

#### 46 Remuneration of the Board of Management and the Supervisory Board

The disclosure of the total remuneration of current and former members of the Board of Management and the Supervisory Board of Deutsche Telekom AG is made in accordance with the provisions of § 314 (1) No. 6 of the German Commercial Code (Handelsgesetzbuch – HGB).

### Board of Management remuneration for the 2023 financial year

Total remuneration of the members of the Board of Management for the 2023 financial year amounted to EUR 40.1 million (2022: EUR 39.1 million). This includes a total of 170,786 entitlements to matching shares with a fair value of EUR 2.9 million on the grant date (2022: EUR 3.2 million). Since 2021, the members of the Board of Management participate in a share price-based Long-Term Incentive Plan (LTI), under which entitlements were granted to a pool of 382,248 (2022: 489,335) phantom shares with a fair value of EUR 7.8 million (2022: EUR 8.2 million).

### Former members of the Board of Management

A total of EUR 9.1 million (2022: EUR 12.3 million) was included for payments to and entitlements for former members of the Board of Management as well as any surviving dependents. Provisions (measured in accordance with IAS 19) totaling EUR 150.2 million (2022: EUR 140.4 million) were recognized for current pensions and vested rights to pensions for this group of persons and their surviving dependents.

### Supervisory Board remuneration for the 2023 financial year

Total remuneration of the members of the Supervisory Board for 2023 amounted to EUR 3.5 million (plus VAT) (2022: EUR 3.6 million (plus VAT)) and is comprised of fixed annual remuneration plus meeting attendance fees.

### Other

The Company has not granted any advances or loans to current or former Board of Management members or to current or former Supervisory Board members, nor were any other financial obligations to the benefit of this group of people entered into.

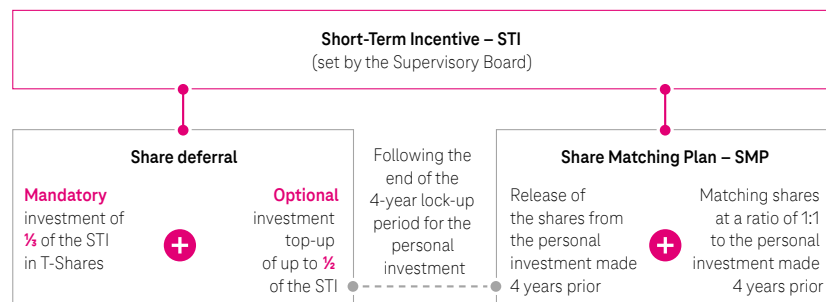
Detailed information on the remuneration of the Board of Management and the Supervisory Board is published in the separate [remuneration report](#).

## 47 Share-based payment

### Share Matching Plan

Members of the Board of Management have a contractual obligation to invest one third of the Short-Term Incentive (STI) set by the Supervisory Board in shares of Deutsche Telekom AG. There is an option to voluntarily increase the investment volume to up to 50 % of the STI. Deutsche Telekom AG will transfer one additional share for every share acquired as part of this Board of Management member's aforementioned personal investment (Share Matching Plan – SMP) on expiration of the four-year lock-up period starting from the date of purchase. The functioning of STI and SMP is set out in the following chart.

### Functioning of the Share Matching Plan and the Short-Term Incentive for Board of Management members



Specific executives are contractually obligated to invest between a minimum of 10 % and a maximum of 50 % of the gross payment amount of their short-term variable remuneration component, which is based on the achievement of targets set for each person for the financial year (Short-Term Incentive), in Deutsche Telekom AG shares. Target achievement is generally determined based on the collective targets set for the respective organizational unit. Deutsche Telekom AG will award one additional share for every share acquired as part of this executive's aforementioned personal investment (Share Matching Plan). These shares will be allotted to the beneficiaries of this plan on expiration of the four-year lock-up period.

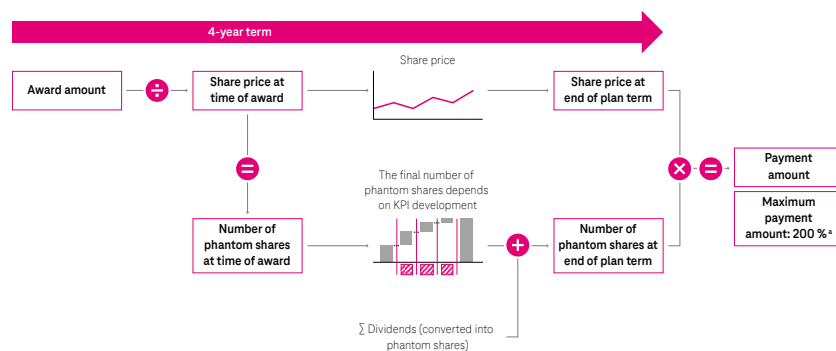
Other executives in specific management groups who were not contractually obligated to participate in the Share Matching Plan are given the opportunity to participate on a voluntary basis. This offer is only made when the Group's free cash flow target for the preceding year has been achieved. To participate, the executives invest between a minimum of 10 % and a maximum of 50 % of the target amount (100 %) of the short-term variable remuneration component (Short-Term Incentive) in shares of Deutsche Telekom AG. Deutsche Telekom AG will award one additional share for every two shares acquired as part of this executive's aforementioned personal investment (Share Matching Plan). The additional shares will be allotted to the beneficiaries of this plan on expiration of the four-year lock-up period.

The individual Share Matching Plans are each recognized for the first time at fair value on the grant date. To determine the fair value, the expected dividend entitlements are deducted from Deutsche Telekom AG's share price, as there are no dividend entitlements until the matching shares have been allocated. In the 2023 financial year, a total of 0.9 million (2022: 0.9 million) matching shares were allocated to beneficiaries of the plan at a weighted average fair value of EUR 17.75 (2022: EUR 15.37). The cost is to be recognized against the capital reserves pro rata temporis until the end of the service period and amounted to EUR 11 million in total for all tranches as of December 31, 2023 (December 31, 2022: EUR 11 million). In the reporting year, shares with a total value of EUR 8 million (2022: EUR 8 million) were transferred to plan participants. The capital reserves recognized for the Share Matching Plan as of December 31, 2023 amounted to EUR 29 million (December 31, 2022: EUR 26 million).

### Long-Term Incentive Plan

Since the introduction of the new Board of Management remuneration system in 2021, Board of Management members also participate in the Group's existing Long-Term Incentive Plan (LTI). The amount of the annual participation is contractually defined individually for each Board of Management member. The functioning of the LTI is summarized below:

#### Functioning of the Long-Term Incentive Plan for Board of Management members



<sup>a</sup> For members of the Board of Management, the maximum payment amount is set at 200 %.

Executives from the Deutsche Telekom AG Group also participate in the LTI provided they meet certain eligibility requirements or have an individual contractual commitment. For executives who are offered the option of voluntary participation in the SMP, investment in the SMP is a necessary condition for participation in the LTI. At the inception of the plan, the participating executives receive a package of phantom shares of Deutsche Telekom AG, the value of which is contingent on the management group to which they have been assigned, and the achievement of the collective targets (financial and strategic targets) of the organizational unit to which the executive belongs. The value of the phantom shares received lies between 15 % and 43 % of the participant's annual target salary.

The initial number of phantom shares is contingent on the share price in a reference period at the inception of the plan. Over the term of the four-year plan, the value of the phantom shares changes in line with Deutsche Telekom AG's share price development. The number of phantom shares will change in line with the achievement of the targets for four equally weighted key performance indicators (return on capital employed, adjusted earnings per share, employee satisfaction, and customer satisfaction), to be determined at the end of each plan year. In addition, a dividend is granted for the phantom shares over the term of the plan. This dividend is reinvested in phantom shares, increasing the number of phantom shares held by each plan participant. At the end of the four-year plan term, the final number of phantom shares will be converted on the basis of a share price calculated in a reference period at the end of the plan and paid out in cash together with the dividend for the last year of the plan, which is not converted into phantom shares.

The individual LTIs are each recognized for the first time at fair value on the grant date. The fair value of a plan is calculated by multiplying the number of phantom shares by Deutsche Telekom AG's share price at the measurement date discounted to the reporting date. For members of the Board of Management of Deutsche Telekom AG, the fair value is calculated on the grant date taking into account a discount for a maximum payment amount of 200 %. This maximum payment amount does generally not apply for other executives. In the 2023 financial year, a total of 3.84 million (2022: 4.87 million) phantom shares were granted at a weighted average fair value of EUR 18.92 (2022: EUR 16.12). A plan must be remeasured at every reporting date until the end of the service period and expensed pro rata temporis. The cost of the LTI plans amounted to EUR 140 million for all tranches in the reporting year (2022: EUR 128 million). In 2023, the provision was utilized in the amount of EUR 90 million (2022: EUR 59 million). In addition, the carrying amount increased by EUR 4 million as a result of discounting. The provision amounted to EUR 302 million as of December 31, 2023 (December 31, 2022: EUR 248 million).

For detailed information on Board of Management member remuneration, please refer to the [remuneration report](#) published separately by the Board of Management and the Supervisory Board.

### “Shares2You” shares program for employees

Since the 2021 financial year, employees in Germany, and since the 2022 financial year, also employees of some Group companies outside Germany, have been given the option to voluntarily invest an amount of between EUR 50 and EUR 1,000 per year in shares in Deutsche Telekom AG. Each participating employee receives one additional free share in Deutsche Telekom AG for every two shares acquired by way of this personal investment (Shares2You). The shares acquired by the participants, including the free shares, are subject to a four-year lock-up period and are blocked during this time, for example with regard to sale. The program is not subject to any minimum service period or performance conditions.

The cost for the free shares must be recognized against the capital reserves at the inception of the plan. In the 2023 financial year, a total of 0.9 million free shares were granted to plan participants. A corresponding expense of EUR 18.2 million was recognized as of December 31, 2023. In total, 2.5 million shares at a fair value of EUR 20.96 for the 2022 tranche and 2.7 million shares at a fair value of EUR 20.24 for the 2023 tranche were transferred to plan participants in the 2023 financial year.

### Stock-based compensation at T-Mobile US

In June 2023, the shareholders of T-Mobile US approved the “2023 Incentive Award Plan,” which replaces the Omnibus Incentive Plan from 2013. Under T-Mobile US’ 2023 Incentive Award Plan, up to 33 million T-Mobile US shares are authorized for stock options, stock appreciation rights, restricted stock units (RSUs), and performance awards to employees, consultants, and non-employee directors. As of December 31, 2023, there were around 33 million T-Mobile US shares available for future grants under this incentive plan.

T-Mobile US grants RSUs to eligible employees and certain non-employee directors, and performance-based restricted stock units (PRSUs) to eligible key executives of the company. RSUs entitle the grantee to receive shares of T-Mobile US’ common stock at the end of a vesting period of up to three years. PRSUs entitle the holder to receive shares of T-Mobile’ US common stock at the end of a vesting period of up to three years if a specific performance goal is achieved. The number of shares ultimately received is dependent on the actual performance of T-Mobile US measured against a defined performance target.

The RSU and PRSU plans resulted in the following share-related development:

#### Time-based restricted stock units and restricted stock awards (RSUs)

	Number of shares	Weighted average grant-date fair value USD
<b>Non-vested as of January 1, 2023</b>	<b>8,373,059</b>	<b>121.09</b>
Granted	5,288,829	145.73
Vested	(4,760,872)	118.99
Forfeited	(1,145,073)	138.10
<b>Non-vested as of December 31, 2023</b>	<b>7,755,943</b>	<b>136.67</b>

#### Performance-based restricted stock units (PRSUs)

	Number of shares	Weighted average grant-date fair value USD
<b>Non-vested as of January 1, 2023</b>	<b>1,360,783</b>	<b>124.09</b>
Granted	232,094	157.61
Adjustments <sup>a</sup>	579,306	113.20
Vested	(1,384,895)	114.57
Forfeited	(14,639)	159.06
Other adjustments	(82,843)	118.00
<b>Non-vested as of December 31, 2023</b>	<b>689,806</b>	<b>145.32</b>

<sup>a</sup> Relates to PRSUs granted before 2023, for which the vesting period had expired in 2023 and which resulted in the issue of additional shares. These PRSUs are also included under PRSUs vested in 2023 and as such are a component of the item “Vested.”

The program is measured at fair value on the grant date and recognized as expense, net of expected forfeitures, following a graded vesting schedule over the related service period. The fair value of stock awards for the RSUs is based on the closing price of T-Mobile US' common stock on the date of grant. The fair value of stock awards for the PRSUs was determined using the Monte Carlo model. Stock-based compensation expense was EUR 674 million as of December 31, 2023 (December 31, 2022: EUR 655 million).

#### 48 Declaration of conformity with the German Corporate Governance Code in accordance with § 161 AktG

In accordance with § 161 AktG, the Board of Management and the Supervisory Board of Deutsche Telekom AG have submitted the mandatory declaration of conformity and made it available to shareholders on Deutsche Telekom AG's website. The full text of the Declaration of Conformity is available on the Deutsche Telekom website.

<https://www.telekom.com/en/investor-relations/management-and-corporate-governance/reports-and-declarations>

#### 49 Events after the reporting period

**Deutsche Telekom AG's share buy-back program.** In the period from January 3, 2024 to February 13, 2024, Deutsche Telekom AG bought back around 9 million shares with a total volume of EUR 0.2 billion under the share buy-back program.

For further information, please refer to the section "Other transactions that had no effect on the composition of the Group" under "Summary of accounting policies."

**Sale of T-Mobile US shares by Deutsche Telekom.** In early 2024, Deutsche Telekom began selling a portion of its T-Mobile US share portfolio on the market, without jeopardizing its own majority ownership position in T-Mobile US. In the period from January 2, 2024 to February 13, 2024, Deutsche Telekom sold around 5 million T-Mobile US shares with a total volume of EUR 0.9 billion.

For further information, please refer to the section "Other transactions that had no effect on the composition of the Group" under "Summary of accounting policies."

**Issue of USD bonds by T-Mobile US.** On January 12, 2024, T-Mobile US issued senior notes with a total volume of USD 3.0 billion (EUR 2.7 billion) with terms ending between 2029 and 2055 and bearing interest of between 4.850 % and 5.500 %. T-Mobile US intends to use the proceeds from the issuance of the senior notes for general business purposes, including share buy-backs, dividend payments, and the ongoing refinancing of existing debt.

**T-Mobile US' shareholder return program from September 2023 continued.** On January 24, 2024, the T-Mobile US Board of Directors declared a further cash dividend of USD 0.65 per share, which will be paid out on March 14, 2024 to the shareholders registered as of close of business on March 1, 2024. Furthermore, in the period from January 1, 2024 to January 31, 2024, T-Mobile US bought back a further 9 million shares with a total volume of USD 1.5 billion (around EUR 1.4 billion) under its share buy-back program.

For further information, please refer to the section "Other transactions that had no effect on the composition of the Group" under "Summary of accounting policies."

### 50 Auditor's fees and services in accordance with § 314 HGB

Deloitte GmbH Wirtschaftsprüfungsgesellschaft, Munich, member of the German Chamber of Public Accountants in Berlin, has been the independent auditor of the Company since the 2022 financial year. The responsible auditor at Deloitte is Dr. Tim Hoffmann.

The following table provides a breakdown of the auditor's professional fees recognized as expenses in the 2023 financial year:

millions of €	
	2023
Auditing services	19
Other assurance services	1
Tax advisory services	0
Other non-audit services	0
	<b>20</b>

Professional fees for auditing services include in particular fees for the statutory auditing of annual and consolidated financial statements and the subsidiaries included in the consolidated financial statements, fees for the review of the interim financial statements, and fees for other auditing services.

The fees recognized under other assurance services mainly relate to services in the context of assurance engagements with regard to the non-financial statement and to sustainability reporting.

In the 2022 financial year, the fees for the auditor of the consolidated financial statements included EUR 14 million for auditing services, EUR 1 million for other assurance services, EUR 0 million for tax advisory services, and EUR 0 million for other services.

Bonn, February 13, 2024

Deutsche Telekom AG  
The Board of Management

Timotheus Höttges

Dr. Ferri Abohassan

Birgit Bohle

Srini Gopalan

Dr. Christian P. Illek

Thorsten Langheim

Dominique Leroy

Claudia Nemat

# Responsibility statement

To the best of our knowledge, and in accordance with the applicable reporting principles, the consolidated financial statements give a true and fair view of the assets, liabilities, financial position, and profit or loss of the Group, and the Group management report, which is combined with the management report of Deutsche Telekom AG, includes a fair review of the development and performance of the business and the position of the Group, together with a description of the principal opportunities and risks associated with the expected development of the Group.

Bonn, February 13, 2024

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