

## **Consolidated financial statements**

## Consolidated statement of financial position

millions of €			
	Note	Dec. 31, 2020	Dec. 31, 2019
Assets			
Current assets		37,293	24,689
Cash and cash equivalents	1	12,939	5,393
Trade receivables	2	13,523	10,846
Contract assets	3	1,966	1,876
Current recoverable income taxes	31	349	481
Other financial assets	11	3,224	3,254
Inventories	4	2,695	1,568
Other assets	12	1,484	1,175
Non-current assets and disposal groups held for sale	5	1,113	97
Non-current assets		227,624	145,983
Intangible assets	6	118,066	68,202
Property, plant and equipment	7	60,975	49,548
Right-of-use assets	8	30,302	17,998
Capitalized contract costs	9	2,192	2,075
Investments accounted for using the equity method	10	543	489
Other financial assets	11	6,416	3,996
Deferred tax assets	31	7,972	2,704
Other assets	12	1,159	970
Total assets	_	264,917	170,672

millions of €			
	Note	Dec. 31, 2020	Dec. 31, 2019
Liabilities and shareholders' equity			
Current liabilities		37,135	32,913
Financial liabilities	13	12,652	11,463
Lease liabilities	13	5,108	3,987
Trade and other payables	14	9,760	9,431
Income tax liabilities	31	690	463
Other provisions	16	3,638	3,082
Other liabilities	<u>17</u>	3,213	2,850
Contract liabilities	18	1,625	1,608
Liabilities directly associated with non-current assets and disposal groups held for sale	5	449	29
Non-current liabilities		155,232	91,528
Financial liabilities	13	94,456	54,886
Lease liabilities	13	27,607	15,848
Provisions for pensions and other employee benefits	15	7,684	5,831
Other provisions	16	5,395	3,581
Deferred tax liabilities	31	17,260	8,954
Other liabilities	17	2,418	1,972
Contract liabilities	18	411	456
Liabilities		192,367	124,441
Shareholders' equity	19	72,550	46,231
Issued capital		12,189	12,189
Treasury shares		(46)	(47)
		12,143	12,142
Capital reserves		62,640	55,029
Retained earnings including carryforwards		(38,905)	(38,709)
Total other comprehensive income		(4,115)	(622)
Net profit (loss)		4,158	3,867
Issued capital and reserves attributable to owners of the parent		35,922	31,707
Non-controlling interests		36,628	14,524
Total liabilities and shareholders' equity		264,917	170,672

Sprint has been included in Deutsche Telekom's consolidated financial statements as a fully consolidated subsidiary since April 1, 2020. This transaction affects the comparability of the figures for the current period with the prior-year figures. For further information on the transaction, please refer to the section "Changes in the composition of the Group and other transactions."





## Consolidated income statement

millions of €	_			
	Note	2020	2019	2018
Net revenue	<u>20</u>	100,999	80,531	75,656
Of which: interest income calculated using the effective interest method		278	345	305
Other operating income	<u>21</u>	2,879	1,121	1,491
Changes in inventories		(15)	29	(14)
Own capitalized costs	<u>23</u>	2,774	2,418	2,433
Goods and services purchased	<u>24</u>	(44,674)	(36,956)	(38,160)
Personnel costs	<u>25</u>	(18,853)	(16,723)	(16,436)
Other operating expenses	<u>26</u>	(4,476)	(3,301)	(3,134)
Impairment losses on financial assets		(862)	(452)	(394)
Gains (losses) from the write-off of financial assets measured at amortized cost		(188)	(42)	(120)
Other		(3,425)	(2,807)	(2,620)
EBITDA		38,633	27,120	21,836
Depreciation, amortization and impairment losses	<u>27</u>	(25,829)	(17,663)	(13,836)
Profit (loss) from operations (EBIT)		12,804	9,457	8,001
Finance costs	28	(4,224)	(2,364)	(1,817)
Interest income		414	348	277
Interest expense		(4,638)	(2,712)	(2,094)
Share of profit (loss) of associates and joint ventures accounted for using the equity method	29	(12)	87	(529)
Other financial income (expense)	<u>30</u>	109	81	(502)
Profit (loss) from financial activities		(4,128)	(2,197)	(2,848)
Profit (loss) before income taxes		8,677	7,260	5,153
Income taxes	<u>31</u>	(1,929)	(1,993)	(1,824)
Profit (loss)		6,747	5,268	3,329
Profit (loss) attributable to				
Owners of the parent (net profit (loss))		4,158	3,867	2,166
Non-controlling interests	<u>32</u>	2,589	1,401	1,163
Earnings per share	33 millions			
Profit (loss) attributable to the owners of the parent (net profit (loss))	of €	4,158	3,867	2,166
Adjusted weighted average number of basic/diluted ordinary shares outstanding	millions	4,743	4,743	4,742
Earnings per share basic/diluted	€	0.88	0.82	0.46

Sprint has been included in Deutsche Telekom's consolidated financial statements as a fully consolidated subsidiary since April 1, 2020. This transaction affects the comparability of the figures for the current period with the prior-year figures. For further information on the transaction, please refer to the section "Changes in the composition of the Group and other transactions."



## Consolidated statement of comprehensive income

	2020	2019	2018
Profit (loss)	6,747	5,268	3,329
Items not subsequently reclassified to profit or loss (not recycled)			
Gains (losses) from the remeasurement of equity instruments <sup>a</sup>	62	99	(619)
Gains (losses) from the remeasurement of defined benefit plans	(1,358)	(603)	127
Share of profit (loss) of investments accounted for using the equity method	0	0	0
Income taxes relating to components of other comprehensive income	142	134	36
	(1,154)	(369)	(456)
Items subsequently reclassified to profit or loss (recycled), if certain reasons are given			
Exchange differences on translating foreign operations			
Recognition of other comprehensive income in income statement	0	(8)	(1)
Change in other comprehensive income (not recognized in income statement)	(6,578)	463	1,033
Gains (losses) from the remeasurement of debt instruments			
Recognition of other comprehensive income in income statement	491	(47)	(75)
Change in other comprehensive income (not recognized in income statement)	(481)	34	84
Gains (losses) from hedging instruments (designated risk components)			
Recognition of other comprehensive income in income statement	431	(148)	(32)
Change in other comprehensive income (not recognized in income statement)	(1,446)	(483)	(382)
Gains (losses) from hedging instruments (hedging costs) <sup>a</sup>			
Recognition of other comprehensive income in income statement	2	2	3
Change in other comprehensive income (not recognized in income statement)	(30)	(9)	56
Share of profit (loss) of investments accounted for using the equity method			
Recognition of other comprehensive income in income statement	0	(7)	0
Change in other comprehensive income (not recognized in income statement)	1	11	7
Income taxes relating to components of other comprehensive income	283	155	86
	(7,327)	(38)	779
Other comprehensive income	(8,481)	(407)	323
Total comprehensive income	(1,734)	4,861	3,652
Total comprehensive income attributable to			
Owners of the parent	(496)	3,514	2,181
Non-controlling interests	(1,238)	1,347	1,471

<sup>&</sup>lt;sup>a</sup> The hedging costs relate entirely to cross-currency basis spreads. For further information, please refer to Note 41 "Financial instruments and risk management."





## Consolidated statement of changes in equity

millions of €

millions of €									
		ls	sued capital and	d reserves attrib	outable to owne	ers of the paren	t		
					Consol				
		Equity con	tributed		shareholde gener				
		. ,							
					5				
					Retained earnings				
	Number of		_		including		Translation	Reval-	
	shares thousands	Issued capital	Treasury shares	Capital reserves	carry- forwards	Net profit (loss)	of foreign operations	uation surplus	
Balance at January 1, 2018	4,761,459	12,189	(49)	55,010	(38,750)	3,461	(1,729)	(60)	
Transfer resulting from change in accounting standards	, , , ,	, -	. ,		1,414	-, -	.,,	(4.4)	
Changes in the composition of the Group					· · · · · · · · · · · · · · · · · · ·				
Transactions with owners				(614)	1		(13)	0	
Unappropriated profit (loss) carried forward					3,461	(3,461)			
Dividends					(3,083)				
Capital increase at Deutsche Telekom AG									
Capital increase from share-based payment				250					
Share buy-back/shares held in a trust deposit			1	0	3				
Profit (loss)						2,166			
Other comprehensive income					163		621		
Total comprehensive income									
Transfer to retained earnings					(602)			32	
Balance at December 31, 2018	4,761,459	12,189	(49)	54,646	(37,392)	2,166	(1,120)	(28)	
Balance at January 1, 2019	4,761,459	12,189	(49)	54,646	(37,392)	2,166	(1,120)	(28)	
Transfer resulting from change in accounting standards					221				
Changes in the composition of the Group				77			(7)		
Transactions with owners				77	24//	(0.477)	(7)		
Unappropriated profit (loss) carried forward  Dividends					2,166	(2,166)			
Capital increase at Deutsche Telekom AG					(3,320)				
Capital increase at Deutsche Telekom AG  Capital increase from share-based payment				306					
Share buy-back/shares held in a trust deposit			1	300	4				
Profit (loss)			'		-	3,867			
Other comprehensive income					(463)	0,007	319		
Total comprehensive income					(100)				
Transfer to retained earnings					74			7	
Balance at December 31, 2019	4,761,459	12,189	(47)	55,029	(38,709)	3,867	(808)	(21)	
				-		<u> </u>			
Balance at January 1, 2020	4,761,459	12,189	(47)	55,029	(38,709)	3,867	(808)	(21)	-
Transfer resulting from change in accounting standards									
Changes in the composition of the Group									
Transactions with owners				7,356			(339)		
Unappropriated profit (loss) carried forward					3,867	(3,867)			
Dividends					(2,846)				
Capital increase at Deutsche Telekom AG									
Capital increase from share-based payment				256					
Share buy-back/shares held in a trust deposit			1						
Profit (loss)					44	4,158	(0 - : - )		
Other comprehensive income					(1,218)		(2,945)		
Total comprehensive income								-	
Transfer to retained earnings	47/4 450	40.400	(40)	(0./40	(79.005)	4450	(4.000)	7	
Balance at December 31, 2020	4,761,459	12,189	(46)	62,640	(38,905)	4,158	(4,092)	(14)	



Total shareholders' equity	Non- controlling interests	Total			ers of the parent	ibutable to owne	and reserves attr	Issued capital a		
								neshatir.	Total	
							ne	Debt instruments	Equity	
				Investments	Hedging	Hedging instruments:		measured at fair value through other	instruments at fair value through other	Available-
			Taxes	accounted for using the equity method	instruments: hedging costs (IFRS 9)	designated risk components (IFRS 9)	Hedging instruments (IAS 39)	compre- hensive income (IFRS 9)	compre- hensive income (IFRS 9)	for-sale financial assets (IAS 39)
42,470	11,737	30,734	(254)	26	n.a.	n.a.	789	n.a.	n.a.	101
1,549	103	1,446	38			789	(789)	0	93	(99)
11	11	0								<u> </u>
(1,389)	(764)	(625)	(1)			1		2	0	
0	0	0	.,							
(3,255)	(172)	(3,083)								
0	0	0								
394	144	250								
4	0	4								
3,329	1,163	2,166								
323	308	15	50	7	58	(271)		6	(620)	
3,652	1,471	2,181			-				-	
0	0	0	1	(36)				(6)	611	
43,437	12,530	30,907	(165)	(4)	58	519	n.a.	2	84	n.a.
43,437	12,530	30,907	(165)	(4)	58	519	n.a.	2	84	n.a.
346	125	221								
239	239	0								
413	340	73	(1)			4				
0	0	0								
(3,555)	(236)	(3,320)								
0	0	0								
484	178	306								
5	0	5								
5,268	1,401	3,867	97	1	(7)	(707)		(0)	00	
(407)	(54) 1 347	(353)	9/	4	(7)	(393)		(9)	99	
<b>4,861</b>	<b>1,347</b>	<b>3,514</b>							(82)	
46,231	14,524	31,707	(69)	0	51	130	n.a.	(6)	101	n.a.
70,231	17,024	31,707	(07)	U	31	130	II.a.	(O)	101	n.d.
46,231	14,524	31,707	(69)	0	51	130	n.a.	(6)	101	n.a.
0	0	0	(07)	<u> </u>		100	11.4.	(0)	101	11.0.
17,329	17,329	0								
13,266	5,967	7,299	(109)			380		12	0	
0	0	0	/							
(3,061)	(215)	(2,846)								
0	0	0								
517	262	256								
1	0	1								
6,747	2,589	4,158								
(8,481)	(3,827)	(4,654)	213	1	(27)	(733)		(6)	62	
(1,734)	(1,238)	(496)								
0	0	0		(1)		0			(7)	
72,550	36,628	35,922	34	0	24	(223)	n.a.	0	156	n.a.





## Consolidated statement of cash flows

millions of €	N	2000	0040	2040
	Note	2020	2019	2018
Profit (loss) before income taxes	<u>35</u>	8,677	7,260	5,153
Depreciation, amortization and impairment losses		25,829	17,663	13,836
(Profit) loss from financial activities		4,128	2,197	2,848
(Profit) loss on the disposal of fully consolidated subsidiaries		(10)	9	0
(Income) loss from the sale of stakes accounted for using the equity method		0	(143)	0
Other non-cash transactions		(857)	569	430
(Gains) losses from the disposal of intangible assets and property, plant and equipment		368	112	(126)
Change in assets carried as operating working capital		(2,702)	(814)	(998)
Change in other operating assets		(509)	(248)	(337)
Change in provisions		20	203	(100)
Change in liabilities carried as operating working capital		(2,108)	(440)	(515)
Change in other operating liabilities		(239)	(325)	(11)
Income taxes received (paid)		(690)	(758)	(697)
Dividends received		6	15	181
Net payments from entering into, canceling or changing the terms and conditions				
of interest rate derivatives		(2,207)	(3)	0
Cash generated from operations		29,706	25,297	19,663
Interest paid		(7,252)	(3,924)	(3,307)
Interest received		1,289	1,701	1,592
Net cash from operating activities		23,743	23,074	17,948
Cash outflows for investments in				
Intangible assets		(5,756)	(4,375)	(3,353)
Property, plant and equipment		(12,938)	(9,982)	(9,139)
Non-current financial assets		(566)	(417)	(639)
Payments for publicly funded investments in the broadband build-out <sup>a</sup>		(507)	(401)	0
Proceeds from public funds for investments in the broadband build-out <sup>a</sup>		431	341	0
Changes in cash and cash equivalents in connection with the acquisition of control of subsidiaries and associates		(5,028)	(261)	(2,080)
Proceeds from disposal of				
Intangible assets		3	0	2
Property, plant and equipment		233	176	523
Non-current financial assets		112	251	596
Changes in cash and cash equivalents in connection with the loss of control of subsidiaries and associates		1,094	62	(67)
Net change in short-term investments and marketable securities and receivables		273	376	(144)
Other		(2)	(1)	5
Net cash used in investing activities		(22,649)	(14,230)	(14,297)
Proceeds from issue of current financial liabilities		19,018	10,778	51,597
Repayment of current financial liabilities		(34,939)	(16,533)	(57,253)
Proceeds from issue of non-current financial liabilities		34,131	6,278	8,375
Repayment of non-current financial liabilities		(1,699)	(21)	(23)
Dividend payments (including to other shareholders of subsidiaries)		(3,067)	(3,561)	(3,254)
Principal portion of repayment of lease liabilities		(5,371)	(3,835)	(1,174)
Cash inflows from transactions with non-controlling entities		53	13	29
Cash outflows from transactions with non-controlling entities		(565)	(261)	(1,557)
Other		0	0	0
Net cash from (used in) financing activities		7,561	(7,141)	(3,259)
Effect of exchange rate changes on cash and cash equivalents		(1,036)	11	(17)
Changes in cash and cash equivalents associated with non-current assets and disposal groups held for sale		(73)	0	(8)
Net increase (decrease) in cash and cash equivalents		7,547	1,713	367
Cash and cash equivalents, at the beginning of the year		5,393	3,679	3,312
Cash and cash equivalents, at the beginning of the year		12,939	5,393	3,679
Saun and Saun equivalence, at the one of the year		12,737	0,070	3,077

<sup>&</sup>lt;sup>a</sup> The payments and proceeds shown here relate to those investments in the broadband build-out that are publicly financed in full. 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. These investments are not included in the operational KPIs "Cash capex" and "Free cash flow," because the payments made do not result in additions to property, plant and equipment.



# Notes to the consolidated financial statements

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#### Summary of accounting policies

#### General information

The Deutsche Telekom Group (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 in 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.

#### Declaration of Conformity

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 of Deutsche Telekom AG as well as the consolidated financial statements of Deutsche Telekom AG, which have an unqualified audit opinion from PricewaterhouseCoopers GmbH Wirtschaftsprüfungsgesellschaft, Frankfurt/Main, are published in the Federal Gazette (Bundesanzeiger). The Annual Report is available on Deutsche Telekom's website.

#### Publications

The consolidated financial statements of Deutsche Telekom for the 2020 financial year were released for publication by the Board of Management on February 16, 2021.

#### Basis of preparation

The consolidated financial statements of Deutsche Telekom are being 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.







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
Amendments to References to the Conceptual Framework	References to the Conceptual Framework	Jan. 1, 2020	Updating of the cross-references to the revised conceptual framework in the corresponding standards and interpretations.	No material impact.
Amendments to IAS 1 and IAS 8	Definition of Material	Jan. 1, 2020	Clarification of the definition of the concept of materiality.	No material impact.
Amendments to IFRS 3	Business Combinations	Jan. 1, 2020	Changes in the definition of a business to clarify whether a business or a group of assets was being acquired.	No material impact.
Amendments to IFRS 9, IAS 39, and IFRS 7	Interest Rate Benchmark Reform (Phase 1)	Jan. 1, 2020	Practical expedients for hedge accounting requirements that are mandatory for all hedges affected by the interest rate benchmark reform. Further disclosures on this are also required.	The effects are detailed in the explanations following this table.

The reform of interbank offered rates (IBORs) is currently generating uncertainty regarding the timing of implementation and the precise content of the planned changes. Deutsche Telekom is affected by this uncertainty in its hedging of interest rate and currency risks in designated fair value and cash flow hedges where certain IBORs are part of the hedging relationship (EURIBOR, USD-LIBOR, GBP-LIBOR, AUD-LIBOR, CHF-LIBOR, HKD-LIBOR, and NOK-OIBOR). Group Treasury continuously analyzes the latest developments and takes any steps needed to transition to the new interest rate benchmarks. Deutsche Telekom does not expect the changes in the benchmark rates to have a material impact.

For information on hedging relationships, please refer to Note 41 "Financial instruments and risk management."

#### 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
IFRSs endorsed by th	ne EU			
Amendments to IFRS 16	Covid-19-related Rent Concessions	Jan. 1, 2021 <sup>a</sup>	Practical expedient for lessee accounting of rent concessions granted due to the Covid-19 pandemic. Instead of assessing whether a rent concession is a lease modification, the lessee can account for the changes in lease payments as if they were not lease modifications.	Practical expedient not applied by Deutsche Telekom.
Amendments to IFRS 4	Insurance Contracts – deferral of IFRS 9	Jan. 1, 2021	Deferral of first-time application of IFRS 9 for insurance companies.	No impact.
Amendments to IFRS 9, IAS 39 and IFRS 7, IFRS 4 and IFRS 16	Interest Rate Benchmark Reform (Phase 2)	Jan. 1, 2021	The amendments address the impact of modifications of financial instruments required as a direct consequence of IBOR reform, hedge accounting requirements, and the accompanying disclosures.	No material impact expected.

<sup>&</sup>lt;sup>a</sup> Earlier application is permissible. Deutsche Telekom already decided in the 2020 financial year to not apply the practical expedient.

b 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

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
FRSs not yet endors	sed by the EU <sup>b</sup>			
Amendments to IAS 16	Proceeds before Intended Use	Jan. 1, 2022	The amendment prohibits entities from deducting from the cost of an item of property, plant and equipment any proceeds from selling items produced while bringing that asset to the location and condition necessary for it to be capable of operating in the manner intended by management. Clarification of the definition of the costs of testing. Revenue and cost that relate to items produced that are not an output of the entity's ordinary activities must be presented separately. Disclosure of the line item in the statement of comprehensive item that includes such revenue.	No material impact.
Amendments to IAS 37	Provisions, Contingent Liabilities and Contingent Assets	Jan. 1, 2022	Clarification that the cost of fulfilling a contract includes all directly attributable costs. The cost of fulfilling the contract includes both the incremental costs of fulfilling that contract (such as direct wage and material costs) and an allocation of other costs that relate directly to fulfilling contracts. In addition, it is clarified that before a provision for an onerous contract is established, an entity should recognize any impairment loss that has occurred on assets used in (previously: dedicated to) fulfilling the contract.	No material impact.
Amendments to IFRS 3	Reference to the Conceptual Framework	Jan. 1, 2022	Reference to the revised IFRS Conceptual Framework. Requirement that, for identifying liabilities within the scope of IAS 37 or IFRIC 21, an acquirer should apply IAS 37 or IFRIC 21 (instead of the Conceptual Framework) to identify the liabilities it has assumed in a business combination. Addition of an explicit statement that an acquirer should not recognize contingent assets acquired in a business combination.	No material impact.
Annual Improvements Project	Annual Improvements to IFRSs 2018–2020 Cycle	Jan. 1, 2022	Revision of specific aspects in IFRS 1, IFRS 9, IFRS 16, and IAS 41	No material impact.
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	Deferral of first-time application of IFRS 17 to January 1, 2023. The fundamental principles under IFRS 17 remain unaffected. The amendments to the standard, which refer to specific topics, are aimed at helping entities implement the standard and, at the same time, avoiding a significant loss of useful information.	No material impact.
Amendments to IAS 1	Presentation of Financial Statements	Jan. 1, 2023	Clarification of the classification of liabilities as current or non-current.	No material impact.

<sup>&</sup>lt;sup>a</sup> Earlier application is permissible. Deutsche Telekom already decided in the 2020 financial year to not apply the practical expedient.

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

Deutsche Telekom did not make any major changes to its accounting policies in the reporting year.

With effect from July 1, 2020, TC Services and Classified ICT, portfolio units previously assigned to the Systems Solutions operating segment, as well as Telekom Global Carrier (TGC) and Network Infrastructure (NWI), which had formerly been reported under the Europe operating segment and the Group Headquarters & Group Services segment respectively, and which together form the business area designated as Deutsche Telekom Global Carrier (DTGC), have been combined in the Germany operating segment. Since then, the management of the Deutsche Telekom Group and hence also the reporting structure both have been based on this new segment allocation. As part of these transactions, the assets and liabilities assigned to the business areas were transferred to the Germany operating segment. Prior-year comparatives in the segments affected have been adjusted retrospectively in segment reporting. The transactions were consummated under company law on July 1, 2020 (TC Services and Classified ICT) and on October 1, 2020 (DTGC).

b 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 firsttime adoption.





For further information on changes in the disclosure of key figures for the prior years, please refer to the section " $\underline{\text{Development of business in the Group}}$ " in the combined management report.

#### **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
Assets	
Current assets	
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
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 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)
Non-current assets	
ntangible 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
Liabilities	
Current liabilities	
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
Non-current liabilities	
Financial liabilities	
Financial liabilities Non-derivative interest-bearing and non- interest-bearing liabilities	Amortized cost
Financial liabilities Non-derivative interest-bearing and non- interest-bearing liabilities	Amortized cost  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
Financial liabilities  Non-derivative interest-bearing and non- interest-bearing liabilities  Derivative financial liabilities	At fair value through profit or loss or, in the case of certain hedging relationships, at fair value through other
Financial liabilities  Non-derivative interest-bearing and non- interest-bearing liabilities  Derivative financial liabilities  Lease liabilities  Provisions for pensions and other employee benefits	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
Financial liabilities  Non-derivative interest-bearing and non- interest-bearing liabilities  Derivative financial liabilities  Lease liabilities  Provisions for pensions and other employee benefits	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  Amortized cost
Financial liabilities  Non-derivative interest-bearing and non- interest-bearing liabilities  Derivative financial liabilities  Lease liabilities  Provisions for pensions and other employee	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  Amortized cost  Actuarial projected unit credit method





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 (excluding goodwill)

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 barter 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 fair value of the asset received.

Limited-term spectrum leases normally satisfy the recognition criteria because the parties to the contract 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 recognized if the content is sufficiently developed to satisfy the identifiability criterion.

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, the period beyond the effective date of the earliest possible termination is not 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. If expectations differ from previous estimates, the changes are recognized as changes in accounting estimates in accordance with IAS 8.

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 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 IT department has formally documented that the capitalized asset is ready for its intended use. Expenditure on research and development recognized as an expense by Deutsche Telekom amounted to EUR 33.1 million (2019: EUR 45.4 million).

#### Goodwill

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.

#### 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. If expectations differ from previous estimates, the changes are accounted for as changes in accounting estimates in accordance with IAS 8. In addition to directly attributable costs, the costs of internally developed assets include proportionate indirect material and labor costs, as well as administrative expenses 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 from/used in 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>&</sup>lt;sup>a</sup> The useful lives indicated represent the maximum number of years as specified by the Group. The actual useful lives may be shorter 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. Borrowing costs relating to assets measured at fair value and to inventories that are manufactured or produced in large quantities on a repetitive basis are not capitalized.

#### Impairments of intangible assets (including goodwill), 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 shall 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 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 classified 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 shall immediately be 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.**, Bonn (Federal Pension Service for Post and Telecommunications – BPS-PT), 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 German Federal Posts and Telecommunications Agency 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 leave of absence. Deutsche Telekom is not required to fulfill any other obligations in respect of pensions for civil servants. The payment obligations are therefore to be considered 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 probably 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, current costing, and price information, as well as estimates and reports from experts. If experience or current 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.

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, 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 and originated loans and other receivables are measured at their transaction price at initial recognition if they do not contain a significant financing component. Instruments 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. This is due to the fact that Deutsche Telekom's primary goal for strategic investments is not a short-term maximization of profit (trading). 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 statement of cash flows and the relevant repayment of the financial liability 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 35 "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

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 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 a loss allowance for expected credit losses is being determined, the historical probability of default supplemented by the relevant future parameters for the credit risk is used as the basis for the calculation. 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. For allowances, financial assets are grouped together on the basis of similar credit risk characteristics, tested collectively for impairment, and written off, if necessary. 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. Impairments of trade receivables are recognized in some cases using allowance accounts. The decision to account for credit risks using an allowance account or by directly reducing the receivable will depend on the reliability of the risk assessment. As there are a variety of operating segments and regional circumstances, this decision is the responsibility of the respective portfolio managers.





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 must be 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 must be measured at fair value through profit or loss.

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.

#### 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 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 payment 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 which are increased by a credit-risk premium and adjusted for a liquidity and country-risk premium. 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. The lease term includes the non-cancelable period of a lease together with periods covered by options to extend the lease, if their exercise is reasonably certain, and periods covered by termination options, if it is reasonably certain that the termination option will not be exercised. This estimate is 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 not previously included in the entity's determination of the lease term is exercised or a termination option not previously included in the entity's determination of the lease term is not exercised. 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 remeasurement of the lease liability is recognized outside profit or loss as an adjustment to the right-of-use asset. Derecognition amounts that exceed the carrying amount of the right-of-use asset are recognized as an expense 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 (operating lease), the leased asset is recognized in the statement of financial position by the lessor. Measurement of the leased asset is then based on the accounting policies applicable to the underlying asset. The lease payments received are recognized as revenue in profit or loss by the lessor. 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 exercise of those extension options that are reasonably certain is 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 in the lease is defined as the difference between the gross investment in the lease and the unearned finance income. 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 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.

#### 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 classified 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 presentation. In cases where a company is in an intermediary position between another supplier/vendor (e.g., manufacturer, wholesaler) and a retail 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 outcome determines whether the entity can recognize revenue on a gross basis (as the principal) or on a net basis after deducting the costs to the supplier (as the agent). For Deutsche Telekom, the question arises particularly in the case of digital services (e.g., streaming services, cloud-based software as a service) purchased from third parties and sold to retail customers as part of Deutsche Telekom's product portfolio. In summary, in case of rights to another party's goods or services, Deutsche Telekom considers itself to be the principal vis-à-vis the retail customer if all of the following conditions are met and thus reports gross revenues:

- Deutsche Telekom either has a contractual enforceable right to receive the predefined services "on demand" at predefined (fixed or variable) prices, and accordingly the other party has entered into an enforceable ongoing commitment to provide them, or Deutsche Telekom has entered into a material minimum purchase commitment.
- Deutsche Telekom sells access to the other party's services in its own name and for its own account under a contract between Deutsche Telekom and the retail customer.
- Deutsche Telekom has discretion in setting the price for the other party's services sold for its own account.



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 estimated customer retention 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, Europe, and Group Development 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. 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 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 profit and loss, 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.

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 cashgenerating 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 an **allowance 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.

#### Significant judgments: revenue recognition, contract assets and liabilities/contract costs

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 duration of the customer relationship. The estimate of the expected average duration of customer retention 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.

Gross vs. net presentation. The assessment of whether Deutsche Telekom presents revenue gross as the principal or net after deduction of costs as the agent, i.e., only in the amount of the remaining margin, requires an analysis of both the legal form and the substance of contracts. After all of the relevant facts and circumstances of the individual case have been weighed up, in many cases the decision also involves a degree of discretion, even if a uniform Group method of assessment is applied. Depending on the conclusion reached, there may be material differences in the amounts of revenues and expenses for the current and subsequent periods. This has no bearing on profit/loss from operations, however.

#### Judgments: extension and termination options for the lessee

**Extension and termination options** are included in many lease arrangements across the Deutsche Telekom Group. Local teams are responsible for negotiating contracts and managing their individual leases. As a result, lease contracts include a wide range of different terms and conditions in order to provide local management with the flexibility needed to run their business, i.e., to give them operational flexibility in terms of managing the underlying lease assets used in their operations and to allow them to react to changing business needs.

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 five 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, typically have an initial non-cancelable period of one to 15 years, during which the lease cannot be terminated. After the initial period of time, the lease extends automatically if neither party terminates the lease or if Deutsche Telekom, as lessee, exercises an extension option, which is typically for five years. Leases can be extended on up to three occasions. The majority of extension options are exercisable by the relevant business units of the Deutsche Telekom Group.

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. The threshold for a "reasonably certain" exercise is lower than "virtually certain" and higher than "more likely than not."

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. For cell site contracts – including the land/ground underneath the infrastructure – in Germany, a lease term of 10 to 15 years is considered reasonably certain. 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 and effect 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 shall account 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 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 2020 financial year, Deutsche Telekom conducted the following transactions, which had or will have 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.

#### Business combination of T-Mobile US and Sprint

Together with their respective majority shareholders Deutsche Telekom AG and SoftBank K.K., T-Mobile US and Sprint Corp. concluded a binding agreement on April 29, 2018 to combine their companies. On July 26, 2019 and on February 20, 2020, further conditions for the business combination were agreed. The transaction was consummated on April 1, 2020. Prior to this, the approvals required from the national and regional regulatory and antitrust authorities and courts in the United States had been obtained and additional closing conditions met. Most recently, on April 16, 2020, the business combination was approved by the California Public Utilities Commission (CPUC). As a consequence of the business combination, T-Mobile US took over all shares in Sprint. Sprint is a U.S. telecommunications company which offers a comprehensive range of wireless and wireline communications products and services. The "new" T-Mobile US will successfully drive forward its Un-carrier strategy and step up the 5G network build-out. This provides a much stronger basis for T-Mobile US to significantly expand nationwide coverage and to extend its mobile network capacities, which translates into clear potential for sustained customer growth. The business combination will increase the market share of the "new" T-Mobile US and is expected to generate synergies and economies of scale.

The business combination of T-Mobile US and Sprint was executed by means of a share exchange without a cash component (all-stock transaction). For every 9.75 Sprint shares held, the Sprint shareholders, with the exception of SoftBank, received one new share in T-Mobile US in return. Pursuant to a supplementary agreement dated February 20, 2020, SoftBank agreed to surrender to T-Mobile US immediately, for no additional consideration, an aggregate of 48,751,557 ordinary shares in T-Mobile US, received in connection with this transaction, such that SoftBank received one new share in T-Mobile US for every 11.31 Sprint shares. Taking these adjustments into account, a total of 373,396,310 new ordinary shares in T-Mobile US were issued to Sprint shareholders.

The preliminary consideration transferred is comprised as follows:

millions of €	Fair value at the acquisition date
T-Mobile US ordinary shares issued	28,649
+ Vested rights from share-based remuneration plans	350
+ Contingent consideration paid to SoftBank	1,721
- Payment received in relation to cost allocation from SoftBank in connection with CPUC	(93)
= Consideration transferred (preliminary)	30,627

Based on the closing T-Mobile US share price of USD 83.90 as of March 31, 2020 - which was the most recent publicly available closing price at the time of consummation – the total value of T-Mobile US ordinary shares issued in exchange for Sprint ordinary shares was USD 31.3 billion (EUR 28.6 billion). In addition, one component of the consideration transferred was the replacement of share-based remuneration for certain Sprint employees for services provided prior to the business combination and contingent consideration payable to SoftBank. The contingent consideration results from the agreement concluded on February 20, 2020 that if the trailing 45-day volume-weighted average price of the T-Mobile US ordinary share at any time during the period commencing on April 1, 2022 and ending on December 31, 2025 reaches or exceeds the value of USD 150.00, then T-Mobile US will issue to SoftBank for no additional consideration 48,751,557 ordinary shares, i.e., the number of shares that SoftBank surrendered to T-Mobile US in the course of the closing of the transaction. The Monte Carlo simulation method was used to measure the contingent consideration. The main inputs and assumptions are the volatility of 28.5 %, the risk-free interest rate of 0.44 %, the period for fulfillment of conditions, the 45-day volume-weighted average price per ordinary share of T-Mobile US, and the corresponding share price at the date of acquisition. Thus, the maximum value of the undiscounted contingent consideration equals the number of shares to be transferred multiplied by the price at the time the contingency is met. The consideration transferred is reduced by a pro rata reimbursement of costs by SoftBank to Deutsche Telekom related to the fulfillment of closing conditions vis-à-vis the CPUC. The financing structure was also reorganized in the course of combining the businesses of T-Mobile US and Sprint. Immediately after the transaction, liabilities of the former Sprint totaling USD 9.8 billion (around EUR 8.9 billion) were repaid, of which USD 7.4 billion (around EUR 6.8 billion) fell due pursuant to a binding change-in-control clause. The amounts repaid are included in current financial liabilities as of the date of consummation and are recognized, in the statement of cash flows as of December 31, 2020, under net cash used in investing activities (mandatory repayments) and net cash from/used in financing activities (optional repayments). Thus the total costs of the acquisition, including the mandatory repayment of financial liabilities as of the acquisition date, amounted to EUR 37.4 billion.

On completion of the transaction, Deutsche Telekom and SoftBank held approximately 43.6 % and 24.7 %, respectively, and other shareholders approximately 31.7 % of the shares in the "new" T-Mobile US. Due to a proxy agreement concluded with SoftBank and the fact that persons nominated by Deutsche Telekom hold a majority on the Board of Directors of the new company, T-Mobile US will continue to be included in the consolidated financial statements of Deutsche Telekom as a fully consolidated subsidiary.

The purchase price allocation and the measurement of Sprint's assets and liabilities at the acquisition date had not been fully finalized as of December 31, 2020. The outstanding measurement issues mainly relate to taxes and contingent liabilities.

The fair values of Sprint's acquired assets and liabilities are presented in the following table:

	Fair value at the acquisition date
Assets	acquisition date
Current assets	7,903
Cash and cash equivalents	1,904
Trade receivables	2,929
Contract assets	141
Other financial assets	205
Other assets Other assets	364
Current recoverable income taxes	13
Inventories	602
Non-current assets and disposal groups held for sale	1,745
Non-current assets	85,450
Goodwill	8,684
Other intangible assets	50,297
Of which: FCC spectrum licenses	41,629
Of which: customer base	4,481
Of which: other	4,187
Property, plant and equipment	13,660
Right-of-use assets	6,287
Other financial assets	224
Deferred tax assets	6,086
Other assets	212
Assets	93,353
Liabilities	75,500
Current liabilities	18,900
Financial liabilities	11,988
Lease liabilities	1,669
Trade and other payables	2,934
Income tax liabilities	119
Other provisions	855
Contract liabilities	249
Other liabilities	652
Liabilities associated with assets and disposal groups held for sale	434
Non-current liabilities	43,826
Financial liabilities	27,068
Lease liabilities	5,146
Provisions for pensions and other employee benefits	816
Other provisions	1,057
Deferred tax liabilities	9,658
Other liabilities	56
Contract liabilities	25
Liabilities	62,726





The acquired intangible assets mainly comprise FCC spectrum licenses and customer relationships, which were measured at fair value in the amount of EUR 41,629 million and EUR 4,481 million, respectively. Spectrum licenses were measured using the greenfield method. Under the greenfield method, the value of the intangible asset is determined using a hypothetical cash flow scenario. The scenario projects the development of an entity's operating business on the assumption that the entity owns only this intangible asset at inception. FCC spectrum licenses have an indefinite useful life. The multi-period excess earnings method was used to measure customer relationships. Under this method, the fair value of the customer base is calculated by determining the present value of earnings after tax attributable to existing customers. The expected useful life of customer relationships is eight years on average. Other intangible assets include, among other things, limited-term spectrum leases, the measurement of which includes the contractual payment obligations and also reflects the extent to which contractual terms are favorable compared to current market values. The average remaining lease term at the acquisition date was 20 years for non-cancelable leases, generally with a minimum term of 10 years.

The fair value of the acquired trade and other receivables amounts to EUR 2,929 million. The gross amount of trade receivables totals EUR 3,081 million, of which EUR 152 million is expected to be bad debt.

In the fourth quarter of 2020, measurement adjustments were made to the acquired assets and liabilities, which primarily related to the following issues. The measurement of intangible assets and corresponding payment obligations arising from spectrum leases is based on the remaining minimum lease terms for a large number of individual leases as of the acquisition date. The detailed contract analyses required for this were completed as of December 31, 2020. Compared to the provisional measurement, which for simplification purposes was based on an identical maximum term of 30 years (including extension options) for all leases, this resulted in a decrease in the carrying amount of the intangible assets of EUR 0.8 billion, a decrease in the carrying amount of the financial liabilities of EUR 0.7 billion, and an increase in goodwill of EUR 0.1 billion. The measurement of certain leased cell towers was also completed, resulting in a decrease in the carrying amount of property, plant and equipment and a corresponding increase in goodwill of EUR 0.5 billion.

The acquired goodwill of EUR 8,684 million is calculated on a preliminary basis as follows:

millions of €	Fair value at the acquisition date
Consideration transferred	30,627
- Fair value of assets acquired	(84,669)
+ Fair value of the liabilities recognized	62,726
= Goodwill	8,684

Non-controlling interests participated fully in the transaction by means of the share exchange. As a result of the issuance of T-Mobile US ordinary shares to the former Sprint shareholders, the total non-controlling interest increased. The preliminary carrying amount of the cumulative non-controlling interests in T-Mobile US was calculated on the basis of the revalued interests in the shareholders' equity of T-Mobile US and was EUR 34.7 billion as of April 1, 2020 (December 31, 2019: EUR 11.0 billion) based on the preliminary purchase price allocation. Since the shares issued to the former Sprint shareholders as part of the share exchange are measured at fair value, the full goodwill method was applied. The preliminary goodwill calculated using this method comprises the synergies anticipated in connection with the acquisition, expected new customer additions, and the combined workforce. No part of the recognized goodwill is deductible for income tax purposes.

Transaction-related costs totaling EUR 0.2 billion were incurred in the Group in the 2020 financial year (in the prior year: EUR 0.1 billion). These mainly comprised legal and consulting fees and are included under other operating expenses.

Deutsche Telekom's net revenue increased by EUR 18.0 billion in the reporting period due to the business combination of T-Mobile US and Sprint. Net profit for the reporting period includes an effect from Sprint's profit before income tax and before non-controlling interests of EUR 0.4 billion. If the business combination had taken place at the beginning of the 2020 financial year, net revenue and consolidated profit before non-controlling interests would have been respectively EUR 5.6 billion and EUR 0.3 billion higher than reported. These effects are based on estimates and they neither represent the actual consolidated figures of the Group if the transaction had taken place on January 1, 2020, nor do they anticipate future consolidated results.





On July 26, 2019, T-Mobile US, Deutsche Telekom, Sprint, SoftBank, and the U.S. satellite TV operator DISH Network Corp. entered into an agreement, subject to specific conditions, with the U.S. Department of Justice (DoJ), which is material for the future structure of the new T-Mobile US. Under this agreement, following the business combination of T-Mobile US and Sprint, Sprint's prepaid business was sold as part of an asset deal to DISH for around USD 1.4 billion (EUR 1.2 billion), taking into account provisional working capital purchase price adjustments. The transaction was consummated on July 1, 2020. The agreement also includes the sale of part of the 800 MHz spectrum held by Sprint to DISH for approximately USD 3.6 billion. The sale of the spectrum is subject to approval by the regulatory authority, to be applied for after three years following the closing of the business combination of T-Mobile US and Sprint, and to additional closing conditions. For two additional years following the closing of the spectrum sale, T-Mobile US will have the option to lease back, as needed, a portion of the spectrum.

On June 22, 2020, SoftBank and Deutsche Telekom agreed that SoftBank is permitted to sell 198,314,426 ordinary shares of T-Mobile US with a total value of more than USD 20 billion. The agreement ensures that Deutsche Telekom retains control of T-Mobile US. SoftBank's share is therefore reduced to approximately 8 %. In return, Deutsche Telekom receives call options from SoftBank on a total of 101,491,623 ordinary shares of T-Mobile US, which can be exercised until June 22, 2024. The subsequent sales of the shares held by SoftBank reduced the proportion of T-Mobile US shares for which Deutsche Telekom can exercise voting rights to around 52.5 % as of August 5, 2020. As of December 31, 2020, Deutsche Telekom held around 43.4 % of the shares in T-Mobile US, SoftBank around 8.6 %, and around 48.0 % were in free float. The proportion of T-Mobile US shares for which Deutsche Telekom can exercise voting rights totaled around 52.3 % as of December 31, 2020.

For further information, please refer to the section "Group organization" in the combined management report and to Note 41 "Financial instruments and risk management."

Sprint is party to a variety of agreements with Shenandoah Personal Communications Company (Shentel), pursuant to which Shentel is the exclusive provider of Sprint wireless communications network products in certain parts of several U.S. states that are home to approximately 1.1 million subscribers. Pursuant to one such agreement, Sprint was granted an option to purchase Shentel's wireless telecommunications assets. On August 26, 2020, Sprint exercised its option by delivering a binding notice of exercise to Shentel. The purchase price for the Shentel wireless telecommunications assets to be purchased by Sprint is determined through the valuation process prescribed in the agreement. On February 1, 2021, the valuation process was completed. The parties are negotiating the remaining outstanding terms of a definitive agreement to govern the purchase of Shentel's wireless telecommunication assets and expect the transaction to close in the second quarter of 2021 after satisfying customary conditions to closing. The base purchase price of the wireless telecommunication assets is USD 1.9 billion, subject to certain other purchase price adjustments prescribed by the agreement as well as additional purchase price adjustments agreed by the parties.

#### Acquisition of Simpel by T-Mobile Netherlands

On October 16, 2020, T-Mobile Netherlands B.V. signed an agreement for the acquisition of 100 % of the shares in Complex Bidco. B.V., including its 100 % share in the Dutch MVNO and SIM provider Simpel.nl B.V. Simpel sells SIM-only subscriptions through its own website and currently has around 1 million customers. It has been using the T-Mobile Netherlands network since 2014. On November 16, 2020, the Dutch Authority for Consumers and Markets approved the acquisition without conditions. The acquisition was closed on December 1, 2020. Complex Bidco. B.V. including Simpel.nl. B.V. has been included in Deutsche Telekom's consolidated financial statements since December 1, 2020.

The consideration transferred is comprised as follows:

millions of €	Fair value at the acquisition date
Cash payment	259
+ Fair value of the purchase option	26
+ Settlement of the pre-existing relationships	8
= Consideration transferred	293

The purchase option resulted from the call option agreement concluded in July 2019, which secured T-Mobile Netherlands the right to acquire 100 % of the shares in Complex Bidco. B.V. including its 100 % stake in Simpel.

The purchase price allocation and the measurement of Simpel's assets and liabilities at the acquisition date were still provisional as of December 31, 2020. The fair values of Simpel's acquired assets and liabilities recognized at the acquisition date are presented in the following table:

millions of €	
	Fair value at the
	acquisition date
Assets	
Current assets	6
Cash and cash equivalents	4
Trade receivables	1
Other assets	1
Non-current assets	336
Goodwill	196
Other intangible assets	138
Of which: customer base	114
Of which: brand	15
Of which: other	9
Property, plant and equipment	1
Deferred tax assets	1
Assets	342
Liabilities	
Current liabilities	15
Trade and other payables	4
Income tax liabilities	7
Other liabilities	4
Non-current liabilities	34
Deferred tax liabilities	34
Liabilities	49

The customer base was measured using the multi-period excess earnings method. Under this method, the fair value of the customer base is calculated by determining the present value of earnings after tax attributable to existing customers. The customer base is amortized over the remaining useful life of around 8 years. The brand was measured using the license price analogy method. Under this method, the value of the brand is calculated by making an assumption about which license costs would be notionally payable if the company did not own the relevant asset. The brand is amortized over the remaining useful life of 10 years.

The carrying amounts of the acquired receivables are based on the fair values. The gross amounts of the receivables amount to EUR 6 million. No material contingent liabilities have been identified.

The deferred tax liabilities comprise the tax effect on the temporary differences between the fair value of the different assets and liabilities on the one hand, and the respective carrying amount for tax purposes on the other.

The acquired goodwill of EUR 196 million is calculated as follows:

millions of €	
	Fair value at the acquisition date
Consideration transferred	293
- Fair value of assets acquired	(146)
+ Fair value of the liabilities recognized	49
= Goodwill	196

Deutsche Telekom uses the full goodwill method. The goodwill reflects the value of new customer additions anticipated in connection with the acquisition. No part of the recognized goodwill is deductible for income tax purposes.

Transaction-related costs totaling EUR 2 million were incurred in the Group in the 2020 financial year. These mainly comprised legal and consulting fees and are included under other operating expenses.





Deutsche Telekom's net revenue increased by EUR 10 million in the reporting period due to the acquisition. Net profit for the reporting period includes Simpel's total profit before non-controlling interests of EUR 2 million. If the business combination had taken place at the beginning of the 2020 financial year, net revenue and consolidated profit before non-controlling interests would have been respectively EUR 119 million and EUR 9 million higher than reported. These effects are based on the assumption that the fair value adjustments, determined provisionally, that arose on the date of acquisition would have been the same, if the acquisition had occurred on January 1, 2020.

The composition of the Deutsche Telekom Group changed as follows in the 2020 financial year:

	Domestic	International	Total
Consolidated subsidiaries			
January 1, 2020	61	206	267
Additions	5	171	176
Disposals (including mergers)	5	13	18
December 31, 2020	61	364	425
Associates accounted for using the equity method			
January 1, 2020	2	8	10
Additions	1	5	6
Disposals	0	1	1
December 31, 2020	3	12	15
Joint ventures accounted for using the equity method			
January 1, 2020	1	6	7
Additions	3	0	3
Disposals	0	1	1
December 31, 2020	4	5	9
Total			
January 1, 2020	64	220	284
Additions	9	176	185
Disposals (including mergers)	5	15	20
December 31, 2020	68	381	449

The following transactions will change the composition of the Deutsche Telekom Group in future.

#### Agreed sale of Telekom Romania Communications

On November 5, 2020, OTE concluded an agreement with Orange Romania concerning the sale of the 54 % stake in Telekom Romania Communications S.A., which operates the Romanian fixed-network business, to Orange Romania for a purchase price of EUR 268 million. The transaction is subject to approval by the authorities as well as other closing conditions.

#### Merger of the cell tower business in the Netherlands and set-up of an infrastructure fund

Deutsche Telekom intends to set up a fund for investments in digital infrastructure in Europe. On January 21, 2021, Deutsche Telekom, Cellnex Telecom S.A. (Cellnex), the newly established independently managed investment company Digital Infrastructure Vehicle I SCSp (DIV), and others signed an agreement to merge Deutsche Telekom's and Cellnex's respective Dutch subsidiaries for passive mobile infrastructure, T-Mobile Infra B.V. and Cellnex Netherlands B.V., (Cellnex NL) into Cellnex NL. In the first step, T-Mobile Infra B.V. is to be sold to DIV. Deutsche Telekom undertakes to invest up to EUR 400 million in DIV. Cellnex undertakes to invest up to EUR 200 million in DIV. Deutsche Telekom will receive a dividend from T-Mobile Infra B.V. of EUR 250 million and a purchase price from DIV that is more or less equivalent to Deutsche Telekom's investment commitment to DIV. In the second step, DIV is to contribute its stake in T-Mobile Infra into Cellnex NL. In return, DIV will receive a stake of around 38 % in the "new" company Cellnex NL. As a result, Deutsche Telekom will lose control over T-Mobile Infra B.V. and will initially include it in the consolidated financial statements indirectly through DIV and then as an investment accounted for using the equity method. T-Mobile Netherlands will continue in future to have full access to the transferred infrastructure by means of a long-term service agreement, primarily by leasing infrastructure components at normal market terms and conditions. The transaction is expected to be closed in the first half of 2021, following approval by the responsible antitrust authority. In future, further institutional investors in addition to Deutsche Telekom and Cellnex will be given the opportunity to buy a stake in DIV. Deutsche Telekom plans to maintain around 25% of the fund in its target structure. Until this target structure is achieved, DIV is expected to be included in Deutsche Telekom's consolidated financial statements as a subsidiary. The assets and liabilities of T-Mobile Infra B.V. are reported in Deutsche Telekom's consolidated financial statements as of December 31, 2020 as non-current assets and disposal groups held for sale and liabilities directly associated with non-current assets and disposal groups held for sale.

For further information, 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."





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

#### OTE share buy-back

As a consequence of a share buy-back program implemented between February 25, 2019 and January 31, 2020, OTE acquired a total of 9,764,743 treasury shares with an aggregate value of EUR 120 million. The extraordinary shareholders' meeting of OTE S.A. on February 20, 2020 resolved to withdraw 9,764,743 shares from circulation with a corresponding capital reduction of around EUR 28 million. The shares were retired from the Athens Stock Exchange on March 27, 2020. As a result, Deutsche Telekom's share in OTE increased from 45.96 to 46.91 %.

#### 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 €	Share- holders' equity <sup>a</sup> millions of €	Average number of employees	Segment allocation
Telekom Deutschland GmbH, Bonn,	Dec. 31, 2020/2020	100.00	22,215	4,604	7,290	3,836	C
Germany	Dec. 31, 2019/2019	100.00	21,617	4,736	6,723	3,573	Germany
T-Mobile US, Inc., Bellevue,	Dec. 31, 2020/2020	43.37	61,208	9,187	59,084	65,015	United
Washington, United States <sup>b, c</sup>	Dec. 31, 2019/2019	62.85	40,420	5,488	30,327	46,544	States
T-Systems International GmbH,	Dec. 31, 2020/2020	100.00	2,462	(573)	575	8,179	Systems
Frankfurt/Main, Germany	Dec. 31, 2019/2019	100.00	5,048	(362)	935	12,149	Solutions
Hellenic Telecommunications	Dec. 31, 2020/2020	46.91	3,878	448	2,826	16,441	
Organization S.A. (OTE), Athens, Greece <sup>b</sup>	Dec. 31, 2019/2019	45.96	3,927	241	2,902	18,033	Europe
Magyar Telekom Telecommunications	Dec. 31, 2020/2020	60.49	1,914	240	2,177	7,349	
Public Limited Company, Budapest, Hungary <sup>b, c</sup>	Dec. 31, 2019/2019	59.72	2,049	257	2,316	8,468	Europe
T-Mobile Netherlands Holding B.V.,	Dec. 31, 2020/2020	75.00	1,946	178	2,030	1,832	Group
The Hague, Netherlands <sup>b, c</sup>	Dec. 31, 2019/2019	75.00	1,910	57	1,872	1,892	Development
T-Mobile Polska S.A., Warsaw,	Dec. 31, 2020/2020	100.00	1,453	87	2,111	4,117	F
Poland <sup>b, c</sup>	Dec. 31, 2019/2019	100.00	1,486	93	1,505	4,569	Europe
T-Mobile Czech Republic a.s., Prague,	Dec. 31, 2020/2020	100.00	1,072	246	1,885	3,272	F
Czech Republic <sup>b, c</sup>	Dec. 31, 2019/2019	100.00	1,088	289	1,956	3,369	- Europe
Hrvatski Telekom d.d., Zagreb,	Dec. 31, 2020/2020	51.71	989	81	2,199	4,957	Europe
Croatia <sup>b, c</sup>	Dec. 31, 2019/2019	51.42	1,039	137	2,276	5,511	
T-Mobile Austria Holding GmbH,	Dec. 31, 2020/2020	98.97	1,302	83	4,776	2,016	- Europe
Vienna, Austria <sup>b, c</sup>	Dec. 31, 2019/2019	100.00	1,276	30	3,488	2,120	
Slovak Telekom a.s., Bratislava,	Dec. 31, 2020/2020	100.00	773	139	1,523	3,336	FIITODA
Slovakia <sup>b, c</sup>	Dec. 31, 2019/2019	100.00	785	161	1,543	3,482	

 $<sup>^{\</sup>rm a}\,$  IFRS figures of the respective subgroup.

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 Federal Gazette (Bundesanzeiger) 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) 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</sup>	Dec. 31, 2020/2020	56.63	47.67	33,306	0
	Dec. 31, 2019/2019	37.15	37.15	11,024	0
Hellenic Telecommunications Organization S.A. (OTE), Athens, Greece <sup>b</sup>	Dec. 31, 2020/2020	53.09	50.00	1,317	135
	Dec. 31, 2019/2019	54.04	50.00	1,378	134
Magyar Telekom Telecommunications Public Limited Company, Budapest, Hungary <sup>b, c</sup>	Dec. 31, 2020/2020	39.51	39.51	600	33
	Dec. 31, 2019/2019	40.28	40.28	701	44
Hrvatski Telekom d.d., Zagreb, Croatia <sup>b, c</sup>	Dec. 31, 2020/2020	48.29	48.29	854	42
	Dec. 31, 2019/2019	48.58	48.58	898	54
T-Mobile Netherlands Holding B.V., The Hague,	Dec. 31, 2020/2020	25.00	25.00	507	0
Netherlands <sup>b, c</sup>	Dec. 31, 2019/2019	25.00	25.00	468	0

 $<sup>^{\</sup>rm a}\,$  IFRS figures of the respective subgroup.

<sup>&</sup>lt;sup>b</sup> Consolidated subgroup.

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

<sup>&</sup>lt;sup>b</sup> Consolidated subgroup.

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





Deutsche Telekom held 43.37 % of the shares in T-Mobile US as of the reporting date. Due to a proxy agreement concluded with SoftBank and the fact that persons nominated by Deutsche Telekom hold a majority on the Board of Directors of the new company, T-Mobile US is being included in the consolidated financial statements of Deutsche Telekom as a fully consolidated subsidiary. The proportion of T-Mobile US shares for which Deutsche Telekom can exercise voting rights totaled around 52.3 % as of December 31, 2020.

For further information, please refer to the section "Changes in the composition of the Group and other transactions."

Deutsche Telekom held 46.91% plus one vote of the shares in the OTE group as of the reporting date. In accordance with shareholder agreements between Deutsche Telekom and the Hellenic Republic, Deutsche Telekom controls 50% plus two voting shares and therefore the OTE group's financial and operating policy. Consequently, the OTE group companies are fully consolidated subsidiaries.

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 com- prehensive income <sup>a</sup>
T-Mobile US, Inc., Bellevue, Washington, United States <sup>b, c</sup>	Dec. 31, 2020/2020	21,983	154,782	18,849	98,832	4,160	(2,510)
	Dec. 31, 2019/2019	10,460	73,954	19,123	34,963	3,593	3,602
Hellenic Telecommunications Organization S.A. (OTE), Athens, Greece <sup>b</sup>	Dec. 31, 2020/2020	1,787	4,917	2,093	1,785	343	327
	Dec. 31, 2019/2019	2,006	5,205	2,432	1,877	79	26
Magyar Telekom Telecommunications	Dec. 31, 2020/2020	775	3,315	873	1,041	129	(56)
Public Limited Company, Budapest, Hungary <sup>b, c</sup>	Dec. 31, 2019/2019	781	3,352	912	906	139	82
Hrvatski Telekom d.d., Zagreb, Croatia <sup>b, c</sup>	Dec. 31, 2020/2020	703	1,849	244	109	51	20
	Dec. 31, 2019/2019	817	1,906	333	114	101	94
T-Mobile Netherlands Holding B.V., The	Dec. 31, 2020/2020	704	3,769	852	1,591	157	157
Hague, Netherlands <sup>b, c</sup>	Dec. 31, 2019/2019	754	3,186	643	1,425	12	12

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

<sup>&</sup>lt;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>	2020	13,501	(14,001)	8,469
<del>-</del>	2019	11,438	(6,997)	(4,135)
Hellenic Telecommunications Organization S.A. (OTE), Athens, Greece <sup>b</sup>	2020	1,214	(565)	(1,114)
_	2019	1,121	(446)	(707)
Magyar Telekom Telecommunications Public Limited Company,	2020	525	(422)	(61)
Budapest, Hungary <sup>b, c</sup>	2019	492	(257)	(226)
Hrvatski Telekom d.d., Zagreb, Croatia <sup>b, c</sup>	2020	334	(98)	(204)
_	2019	348	(181)	(219)
T-Mobile Netherlands Holding B.V., The Hague, Netherlands <sup>b, c</sup>	2020	609	(737)	148
<del>-</del>	2019	484	(488)	(142)

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

<sup>&</sup>lt;sup>b</sup> Consolidated subgroup.

<sup>&</sup>lt;sup>b</sup> Consolidated subgroup.

<sup>&</sup>lt;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 41 "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 significant currencies changed as follows:

€		Annual average rate	Rate at the reporting date		
	2020	2019	2018	Dec. 31, 2020	Dec. 31, 2019
100 Czech korunas (CZK)	3.78060	3.89551	3.87824	3.81076	3.93593
100 Croatian kuna (HRK)	13.26560	13.48050	13.48050	13.24500	13.43960
1,000 Hungarian forints (HUF)	2.84691	3.07429	3.13607	2.74454	3.02481
100 Macedonian denars (MKD)	1.62187	1.62726	1.62440	1.62246	1.62299
100 Polish zlotys (PLN)	22.51210	23.26470	23.46130	21.93370	23.49380
1 U.S. dollar (USD)	0.87553	0.89326	0.82946	0.81510	0.89055

# Coronavirus pandemic

The coronavirus pandemic has developed into a global economic crisis in 2020 and will continue to shape its course in 2021. Higher demand for certain telecommunications services means the impact of the crisis is being felt less severely by the telecommunications industry than by other industries. Business activities and thus the results of operations and financial position of Deutsche Telekom were impacted by the coronavirus pandemic in various business areas, affecting revenue and earnings, although not to any significant extent. For example, temporary travel restrictions have resulted in lower roaming and visitor revenues. Our terminal equipment business is also beginning to feel the squeeze. Likewise, the impact has been felt in the corporate customer business: together with the development of traditional IT business, which fell short of expectations during the year, the coronavirus crisis resulted in the recognition of an impairment loss on non-current assets in the Systems Solutions operating segment in the third quarter of 2020. On the other hand, Deutsche Telekom recorded an increase in the volume of voice calls, both in mobile communications and in the fixed network. At this time, we can report only very minor repercussions with respect to payment defaults and customer numbers.

The coronavirus pandemic resulted in expenses of EUR 0.4 billion in the financial year, primarily at T-Mobile US, which were recorded as special factors. These expenses mainly comprise additional salary components for employees, commissions for indirect sales, and cleaning expenses and are recognized under goods and services purchased, personnel costs, and other operating expenses.



Nevertheless, there is still uncertainty regarding the extent to which business activities and thus the results of operations and financial position of Deutsche Telekom could be affected overall depending on how the pandemic develops. Possible future effects on the measurement of individual assets and liabilities are being analyzed on an ongoing basis. Possible factors could include the introduction of new travel restrictions, the closure of Telekom Shops, disrupted supply chains, further declines in roaming and visitor volumes, falling terminal equipment sales, or a drop in the number of new contracts being taken out. In addition, corporate customer business may decline further, for example, due to delayed or changed customer decisions. The possibility of an increase in the number of consumers and business customers defaulting on their payments cannot be ruled out either. Deutsche Telekom has put in place cost-saving measures to mitigate potential effects on earnings.

# Notes to the consolidated statement of financial position

# 1 Cash and cash equivalents

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 1,530 million (December 31, 2019: EUR 1,273 million) on the basis of collateral contracts as surety for potential credit risks arising from derivative transactions. Cash and cash equivalents increased by EUR 7.5 billion to EUR 12.9 billion.

For further information, please refer to Note 35 "Notes to the consolidated statement of cash flows."

As of December 31, 2020, Deutsche Telekom reported cash and cash equivalents of EUR 38.0 million held by subsidiaries in North Macedonia (December 31, 2019: EUR 30.0 million). These subsidiaries are subject to foreign exchange controls or other legal restrictions. As a result, the cash balances are not fully available for use by the parent or other Group companies.

## 2 Trade receivables

Trade receivables increased by EUR 2.7 billion to EUR 13.5 billion Receivables increased by EUR 2.9 billion as of April 1, 2020 in connection with the inclusion of Sprint. Exchange rate effects, primarily from the translation from U.S. dollars into euros, reduced the carrying amount. Excluding this effect, receivables in the United States operating segment increased, mainly due to higher receivables from wholesale partners – in particular as a consequence of the sale of Sprint's prepaid business to DISH – and higher receivables under the Equipment Installment Plan – primarily as a result of the market launch of higher-priced devices in the fourth quarter of 2020. In the Germany operating segment, receivables increased as a result of the contractual termination of a revolving factoring agreement for receivables from consumers and business customers. By contrast, receivables in the Europe operating segment decreased, among other factors, on account of the agreed sale of Telekom Romania Communications S.A., which operates the Romanian fixed network business. This entity's receivables were reclassified as of December 31, 2020 to non-current assets and disposal groups held for sale. Of the total of trade receivables, EUR 11,473 million (December 31, 2019: EUR 9,074 million) is due within one year.

For information on allowances, credit ratings, and write-offs of receivables as well as on factoring agreements, please refer to Note 41 "Financial instruments and risk management."

# 3 Contract assets

Contract assets increased from EUR 1.9 billion in the prior year to EUR 2.0 billion as of December 31, 2020 primarily due to the change in the composition of the Group in connection with the business combination of T-Mobile US and Sprint.

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 0.1 billion related to contract assets in connection with long-term construction contracts (December 31, 2019: EUR 0.1 billion).

No significant adjustments were made to contract assets in the reporting year as a result of contractual amendments. Contract assets increased by EUR 80 million in the prior year, due to a change in the business model in Poland in September 2018: whereas the previous business model did not provide for devices to be sold at a discount, the terminal equipment business has been subsidized since then.

For information on allowances on contract assets, please refer to Note 41 "Financial instruments and risk management."





# 4 Inventories

millions of €		_
	Dec. 31, 2020	Dec. 31, 2019
Raw materials and supplies	49	50
Work in process	23	18
Finished goods and merchandise	2,623	1,500
	2,695	1,568

The carrying amount of inventories increased by EUR 1.1 billion compared to December 31, 2019 to EUR 2.7 billion, mainly on account of the inventories of Sprint transferred in connection with the business combination. Write-downs of EUR 42 million (2019: EUR 20 million, 2018: EUR 42 million) on the net realizable value were recognized in profit or loss in 2020. The carrying amount of inventories expensed during the reporting period was EUR 16,693 million (2019: EUR 14,340 million; 2018: EUR 14,373 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, 2020, current assets recognized in the consolidated statement of financial position included EUR 1.1 billion (December 31, 2019: EUR 0.1 billion) in non-current assets and disposal groups held for sale. Current liabilities in the consolidated statement of financial position included liabilities directly associated with non-current assets and disposal groups held for sale of EUR 0.4 billion as of December 31, 2020 (December 31, 2019: EUR 29 billion). The increase in the carrying amounts of assets and liabilities resulted from the transactions described below. Real estate in the Group Headquarters & Group Services segment was sold in 2019.

millions of €								
		De	c. 31, 2020			Dec	c. 31, 2019	
	Telekom Romania Communications S.A.	T-Mobile Infra B.V.	T-Mobile US spectrum	Other	Total	Deutsche Telekom AG	Other	Total
Non-current assets and disposal groups held for sale								
Cash and cash equivalents	73				73	0	0	0
Trade receivables	120			1	121	0	0	0
Inventories	10				10	0	0	0
Other current assets	76	9		2	87	0	35	35
Intangible assets	32	259	39		330	0	0	0
Of which: goodwill		259			259			0
Property, plant and equipment	176	123		8	307	50	12	62
Right-of-use assets	102	34			136			0
Investments accounted for using the equity method					0			0
Deferred tax assets					0	0	0	0
Other non-current assets	17			32	49			0
Total	606	425	39	43	1,113	50	47	97
Liabilities directly associated with non-current assets and disposal groups held for sale								
Trade and other payables	155	3			158	0	29	29
Income tax liabilities		4			4			0
Other current provisions	14				14			0
Other current liabilities	71	22		2	95			0
Provisions and similar obligations	11				11			0
Other non-current provisions	1	35			36	0	0	0
Deferred tax liabilities		3			3			0
Other non-current liabilities	43	85			128			0
Total	295	152	0	2	449	0	29	29





As of December 31, 2020, the carrying amounts include the reclassified assets and liabilities of Telekom Romania Communications S.A. (TKR), which operates the Romanian fixed-network business in the Europe operating segment. They also include the assets and liabilities of the Dutch company T-Mobile Infra B.V., which is assigned to the Group Development operating segment. Both these companies were classified as held for sale as of December 31, 2020 on account of the specific intention to sell them.

The assets and liabilities of both companies were measured at the lower of the carrying amount and fair value less costs of disposal. The recoverable amounts were determined on the basis of the sale agreements concluded with the contracting parties (Level 1 inputs). An expert opinion was obtained to determine the fair values of TKR's individual assets. The agreed sale of TKR resulted in the course of the year in a reversal of impairment losses recognized in the past on property, plant and equipment of EUR 50 million.

For further information on the reversal of impairment losses, please refer to Note 7 "Property, plant and equipment."

For further information on the two agreed transactions, please refer to the section "Changes in the composition of the Group and other transactions."

On November 4, 2020, a transaction was agreed between T-Mobile US and a competitor for the exchange of mobile spectrum licenses in order to improve mobile network coverage. The measurement uses parameters for which there are no observable market parameters (Level 3).

In addition, Deutsche Telekom AG's real estate held for sale of EUR 2 million as of December 31, 2020 (December 31, 2019: EUR 6 million) was no longer recognized at its carrying amounts in accordance with IFRS 5, but at its fair value less costs of disposal. This real estate relates to sites that are no longer considered necessary for operations or that will, in the foreseeable future, no longer be considered necessary for operations on account of technological advances. The fair values are determined by external experts. The fair value is measured on a regular basis using the earnings value method, taking into account local market estimates and specific characteristics of the property, including input parameters that cannot be observed in the market (Level 3). The expected costs of disposal (currently usually around 10 % of the fair value) are subtracted. The real estate was written down by EUR 1 million (2019: EUR 5 million) to the fair value less costs of disposal. The expense was recognized under depreciation, amortization and impairment losses.

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	Acqu	uired intangible assets	s	
		·	Acquired concessions, industrial and similar rights and assets	LTE licenses	
Cost		10141	400010	ETE (IGGHIGGS	
At December 31, 2018	7,371	78,275	1,427	6,232	
Adjustment resulting from the change in accounting standards	0	(68)	0	0,202	
Currency translation	94	932	6	(9)	
Changes in the composition of the Group	47	414	2	182	
Additions	344	4,113	159	0	
Disposals	(802)	(1,293)	(60)	0	
Change from non-current assets and disposal groups held for sale	(3)	0	0	0	
Reclassifications	1,148	1,313	8	(1)	
At December 31, 2019	8,200	83,687	1,542	6,404	
Adjustment resulting from the change in accounting standards	0	0	0	0	
Currency translation	(529)	(10,209)	(52)	(138)	
Changes in the composition of the Group	292	49,575	243	0	
Additions	448	2,752	149	259	
Disposals	(723)	(11,362)	(134)	(20)	
Change from non-current assets and disposal groups held for sale	0	(317)	0	0	
Reclassifications	1,506	2,640	53	284	
At December 31, 2020	9,195	116,766	1,801	6,789	
Accumulated amortization and impairment losses	,	,	•	•	
At December 31, 2018	(4,762)	(30,585)	(857)	(1,870)	
Adjustment resulting from the change in accounting standards	0	39	0	0	
Currency translation	(65)	(181)	(4)	5	
Changes in the composition of the Group	0	0	0	0	
Additions (amortization)	(1,143)	(3,588)	(266)	(429)	
Additions (impairment)	(2)	(73)	0	0	
Disposals	801	1,293	60	0	
Change from non-current assets and disposal groups held for sale	2	0	0	0	
Reclassifications	(3)	(14)	2	0	
Reversal of impairment losses	0	0	0	0	
At December 31, 2019	(5,171)	(33,110)	(1,066)	(2,294)	
Adjustment resulting from the change in accounting standards	0	0	0	0	
Currency translation	356	1,282	28	49	
Changes in the composition of the Group	0	6	0	0	
Additions (amortization)	(1,432)	(5,039)	(377)	(436)	
Additions (impairment)	(180)	(252)	(4)	(99)	
Disposals	723	11,357	132	20	
Change from non-current assets and disposal groups held for sale	0	248	0	0	
Reclassifications	(2)	(6)	(25)	0	
Reversal of impairment losses	0	1,605	0	0	
At December 31, 2020	(5,707)	(23,908)	(1,311)	(2,759)	
Net carrying amounts					
At December 31, 2019	7 020	E0 E77	477	4.440	
	3,029	50,577	4//	4,110	

692

85

608

550

38,051

74,454

2,223

2,580

4,415

10,668

12,436

19,819

2,161

1,900

Advance payments and intangible assets under

Acquired intangible assets Goodwill development FCC licenses Other acquired 5G licenses **UMTS** licenses GSM licenses (T-Mobile US) intangible assets Total 9,935 1,377 40,443 18,862 30,410 2,383 118,439 0 0 Ω 0 (68) Ω Ω (68)0 3 2 807 0 124 225 13 1,264 230 638 0 Ω 0 162 15 0 6,649 1,033 2,192 0 0 2,237 684 0 0 (2) 0 0 (1,230) 0 (30)(2,124) 0 0 0 0 0 0 0 (3) 13 48 0 0 0 1,294 0 (2,413)124,844 9,937 1,390 42,283 19,895 2,237 30,796 2,161 0 0 0 0 0 0 0 0 (15) (8,215) (13,100) (21) 0 (1,768) (2,270)(93) 7,703 8,867 41,629 565 59,300 0 0 0 3,635 6,836 0 0 851 1,107 387 0 (12,308) (8,541) (2,510) 0 (224) (128)0 (29) (68) (249) 0 (596) 0 0 (279) 0 0 0 0 41 2,262 0 (4,082) 63 1,375 165,038 1,247 76,736 2,635 26,184 37,115 1,962 (53,489) (8,663) (711) (4,149) 0 (14,335) (18,143) 0 0 39 0 39 0 0 0 0 0 0 (2) (2) (82) (96) (218) (464) 0 0 0 0 0 0 0 0 0 0 (580) (58) (13) (2,242) 0 (4,731) 0 0 0 0 0 (73) 0 (74) 1,230 2 0 2,094 0 0 0 0 0 0 0 0 0 0 0 2 (17) 0 0 0 0 0 (13) (3) 0 0 0 0 0 0 0 0 (15,480) (9,244) (4,232) (18,360) 0 (56,641) (781) (13) 0 0 0 0 0 0 0 0 1,070 17 11 345 0 831 0 2,708 0 0 0 0 0 0 6 6 0 0 0 (6,472) (579) (55) (71) (3,523) (525) (24)0 (29)0 (96) (26)(67) 8,541 29 2,507 0 5 12,085 128 0 0 0 29 0 219 20 0 268 0 0 0 0 19 0 0 (8) 0 0 1,604 0 0 0 1,605 (2,282) (15,515) (1,289) (17,295) (62) (46,972) (697) (55)

68,202

118,066

The carrying amount of intangible assets increased by EUR 49.9 billion to EUR 118.1 billion, primarily due to the following effects: Effects from changes in the composition of the Group of EUR 59.3 billion in connection with the acquisitions of Sprint and Simpel contributed to this increase, which also includes preliminary goodwill arising from the transactions; EUR 8.7 billion from the Sprint transaction and EUR 0.2 billion from the Simpel transaction. Additions of EUR 6.8 billion also increased the carrying amount. They mainly related to investments in the United States, Europe, and Germany operating segments, primarily for the development of network software. The carrying amount was furthermore increased by investments in internally generated and purchased software in the Group Headquarters & Group Services segment. This also includes, in the United States operating segment, FCC spectrum licenses of EUR 1.1 billion – primarily acquired at a spectrum auction that ended in March 2020 - and in the Group Development and Europe operating segments, spectrum licenses totaling EUR 0.6 billion - mainly in the Netherlands, Hungary, Greece and Austria. Amortization of EUR 6.5 billion, negative exchange rate effects of EUR 10.4 billion, mainly from the translation of U.S. dollars into euros, and disposals of EUR 0.2 billion, primarily from the derecognition of billing software for postpaid customers in the United States, which was still in development, reduced the carrying amount. Due to the migration of Sprint contract customers to the T-Mobile US billing software, it was decided that this software was not suitable for the joint customer base and would not be put into operation. In connection with the intention to sell T-Mobile Infra B.V. and Telekom Romania Communications S.A., both companies were classified as held for sale as of December 31, 2020. As a result, the carrying amount declined by EUR 0.3 billion overall. Furthermore, the carrying amount of intangible assets was increased by EUR 1.6 million as a result of the following reversal of impairment losses and was reduced by EUR 0.5 billion overall by the following impairment losses.

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

Reversal of impairment losses recognized in prior years on FCC licenses in the United States operating segment. The partial reversal of impairment losses on FCC licenses previously acquired by T-Mobile US increased the carrying amount of intangible assets by EUR 1.6 billion before deferred taxes. These FCC licenses were impaired as of September 30, 2012 following ad hoc impairment testing of the United States cash-generating unit. As the impairment of the FCC licenses related entirely to the PCS licenses, only these licenses are subject to the reversal of the impairment loss. Regular assessments had to be made in subsequent periods to determine whether the reasons for impairment still existed – in full or in part. The fair value less costs of disposal of the United States cash-generating unit derived from the share price of T-Mobile US, which has been listed since 2013, has increased significantly over the last few years and exceeded its carrying amount. However, the reversal is limited to the lower of the recoverable amount of the impaired spectrum licenses determined by the fair value less costs of disposal on the one hand and the acquisition cost of these licenses on the other. An initial reversal of the impairment loss in the amount of EUR 1.7 billion (before deferred taxes) was recognized in the third quarter of 2017, which was indicated back then by the results of the 600 MHz spectrum auction completed in 2017.

The measurement of Sprint's FCC licenses at fair value in connection with the purchase price allocation following the business combination of T-Mobile US and Sprint effective April 1, 2020 indicated a further increase in the PCS licenses' value. This triggered a remeasurement of the PCS licenses held by T-Mobile US, which was performed by using a market approach. The value was calculated on the basis of Level 2 inputs in accordance with the fair value hierarchy under IFRS 13. The market approach on which the remeasurement was based drew on market prices from comparable auctions and secondary market transactions, as well as analyst estimates. Analyst estimates were used because they included estimated market values for the individual frequency ranges of mobile companies in the United States. These analyst estimates also covered T-Mobile US' PCS licenses. Transactions for PCS and AWS spectrum were included to the extent that they related to similar frequency ranges and a comparable population density. Multipliers were derived from these market prices for the price in U.S. dollars per MHz per member of the population (price per MHz/pop). Based on the bandwidth of observable multipliers, a multiplier of USD 1.84 per MHz/pop, derived from current analyst estimates and past transactions, was used to derive the fair value of T-Mobile US' PCS licenses. A recoverable amount of USD 18.1 billion (EUR 14.7 billion) was calculated from this for the FCC licenses previously impaired. Taking the carrying amount of USD 16.1 billion (EUR 13.1 billion) into account, a partial reversal of the impairment losses of USD 2.0 billion (EUR 1.6 billion) was recorded under other operating income.





Impairment loss recognized in connection with the realignment of the B2B telecommunications business in the Germany operating segment. As part of the realignment of the B2B telecommunications business, the assets and liabilities assigned to the relevant business areas were transferred to the Germany operating segment, primarily from the Systems Solutions and Europe operating segments. The goodwill previously allocated to the Systems Solutions and Telekom Global Carrier cashgenerating units was thereby allocated in full to the telecommunications business being transferred to the Germany cashgenerating unit. The realignment of the B2B telecommunications business in combination with the effects of the coronavirus pandemic triggered ad hoc impairment testing of the assets assigned to the Systems Solutions cash-generating unit, which identified a deterioration in the business outlook for IT operations. The result was the recognition of an impairment loss of EUR 470 million on non-current assets of the Systems Solutions cash-generating unit. The recoverable amount – determined as fair value less costs of disposal – was calculated at EUR -976 million, which is EUR 1,428 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. EUR 299 million of the impairment loss recognized in the Systems Solutions operating segment related to intangible assets, and EUR 127 million to property, plant and equipment. Another EUR 44 million related 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. 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 4.32 % was used.

For further information on the realignment of the B2B telecommunications business, please refer to Note 36 "Segment reporting."

Agreed sale of Telekom Romania Communications. An ad hoc impairment test was also conducted at the Romania - Fixed network (Telekom Romania Communications S.A. (TKR)) and Romania – Mobile communications (Telekom Romania Mobile Communications S.A. (TKRM)) cash-generating units, which are assigned to the Europe operating segment. TKR operates the Romanian fixed-network business and TKRM the Romanian mobile communications business. Even though these two entities are essentially independent companies, each with their own commercial focus, the agreed sale of the fixed-network business has economic and strategic implications for the mobile business in Romania, which will remain in the Deutsche Telekom Group. For example, in the future, there will be no MVNO agreement between the two entities allowing TKR to offer FMC products to its own fixed-network customers. Furthermore, terminal equipment revenues that TKRM currently generates from sales to TKR as well as synergies arising from current joint procurement and sales activities will no longer be realized; at present, the two entities share shops, for example. Consequently, an ad hoc impairment test was conducted on TKRM's assets, which resulted in the recognition of an impairment loss of EUR 160 million on TKRM's non-current assets. The recoverable amount - determined as fair value less costs of disposal - was calculated at EUR 171 million, which is EUR 160 million lower than the carrying amount of TKRM. EUR 126 million of the impairment loss related to intangible assets and EUR 34 million to property, plant and equipment. An 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 7.78 % was used. No goodwill remained at the cash-generating unit Romania – Mobile communications. In the Romanian fixed-network business, the sale of TKR, planned since October 2020, resulted in a reversal of impairment losses recognized in the past on property, plant and equipment of EUR 50 million.

For further information, please refer to Note 7 "Property, plant and equipment."

In the 2020 financial year, the carrying amount of goodwill in cash-generating units in the operating segments increased by EUR 7.4 billion to EUR 19.8 billion. This was the result of the following effects:

Germany operating segment. The increase in goodwill of EUR 1.2 billion compared with December 31, 2019 was mainly due to the transfer in full of the goodwill previously allocated to the Systems Solutions and Telekom Global Carrier cash-generating units completed in connection with the realignment of the B2B telecommunications business. In addition, the carrying amount of goodwill in the Germany cash-generating unit increased as a result of the acquisition of companies that overall are immaterial for the Germany operating segment.

United States operating segment. The increase in goodwill of EUR 7.6 billion compared with December 31, 2019 was due to an increase of EUR 8.7 billion from the business combination of T-Mobile US and Sprint, which was reduced by EUR 1.1 billion due to exchange rate effects from the translation of U.S. dollars to euros. Further acquisitions of companies were immaterial for the United States operating segment.

For further information on the business combination of T-Mobile US and Sprint, please refer to the section "Changes in the composition of the Group and



**Europe operating segment.** Changes in goodwill in the cash-generating units Poland, Hungary, Croatia, and the Czech Republic result from exchange rate effects. In Slovakia, recognized goodwill was reduced in 2020 by corporate transactions that were immaterial overall.

Group Development operating segment. The acquisition of 100 % of the shares in Complex Bidco. B.V. including its 100 % stake in the Dutch MVNO and SIM provider Simpel.nl B.V. resulted in intangible assets totaling EUR 138 million (including customer base and spectrum licenses) as well as goodwill of EUR 196 million in the Netherlands cash-generating unit at the acquisition date. The acquisition of Tele2 Netherlands in December 2019 resulted in identifiable intangible assets totaling EUR 455 million (including customer base and spectrum licenses) in addition to goodwill of EUR 109 million. The cell towers and roof-top sites of T-Mobile Netherlands were divested to the then newly-created cash-generating unit T-Mobile Infra B.V., with pro rata goodwill of EUR 259 million also being transferred to this unit at the same time. The intention, as of December 31, 2020, to sell T-Mobile Infra B.V. resulted in a reclassification of assets to non-current assets and disposal groups held for sale and an associated decline in goodwill of EUR 259 million.

For further information, please refer to the section "Changes in the composition of the Group and other transactions."

**Disclosures on annual impairment tests.** As of December 31, 2020, 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.

A need for a partial impairment of goodwill of EUR 26 million was identified in the Europe operating segment at the Montenegro cash-generating unit as of December 31, 2020 on the basis of information available at the reporting date and expectations with respect to the future development of the market and competitive environment. The need for impairment is primarily attributable to the difficult economic situation in Montenegro, which has been intensified by the coronavirus pandemic. As a result, the market has not developed as positively as originally assumed. Accordingly, an adjustment was made to the EBITDA planning to include additional need for investment, which will be reflected in lower future cashflows. The recoverable amount (prior to the deduction of net debt) for the Montenegro cash-generating unit was EUR 133 million as of December 31, 2020 (December 31, 2019: EUR 202 million). This amount was calculated on the basis of the value in use.

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, these figures were calculated using a net present value approach. The main parameters are shown in the following table. The impairment test on goodwill as of December 31, 2019 did not result in any need for impairment in the cash-generating units.

The recoverable amounts at the cash-generating units Netherlands, 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 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.

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

The following tables provide an overview of the main factors affecting the measurement, the classification of the input parameters (levels) used to determine the recoverable amounts in accordance with IFRS 13, as well as the sensitivity calculations for the need for impairment resulting from a change in the main parameters discount rate, net cash flow, and growth rate. They show the most significant cash-generating units to which goodwill has been allocated.



		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>
Germany	2020	4,964	0	10	3.49	0.0	Level 3
	2019	3,729	0	10	4.11	0.0	Level 3
United States	2020	8,964	0	n.a.	n.a.	n.a.	Level 1
	2019	1,332	0	n.a.	n.a.	n.a.	Level 1
Europe							
oland	2020	191	0	10	5.24	2.0	Level 3
	2019	204	0	10	6.39	2.0	Level 3
Hungary	2020	914	0	10	6.38	2.0	Level 3
	2019	1,007	0	10	7.22	2.0	Level 3
Czech Republic	2020	769	0	10	5.12	2.0	Level 3
	2019	800	0	10	5.60	2.0	Level 3
Croatia	2020	518	0	10	5.67	2.0	Value in use
	2019	525	0	10	6.24	2.0	Value in use
Slovakia	2020	424	0	10	3.85	2.0	Level 3
	2019	428	0	10	4.61	2.0	Level 3
Greece	2020	422	0	10	5.01	2.0	Level 3
	2019	422	0	10	6.19	2.0	Level 3
Austria	2020	877	0	10	3.71	2.0	Level 3
	2019	877	0	10	4.39	2.0	Level 3
Telekom Global Carrier <sup>c</sup>	2020						
	2019	102	0	10	4.20	2.0	Level 3
Other <sup>d</sup>	2020	53	26	10	7,30-7,43	2.0	Value in use
	2019	78	0	10	8,03-8,06	2.0	Value in use
Systems Solutions							
Systems Solutions <sup>c</sup>	2020						
	2019	1,143	0	10	5.45	1.0	Level 3
Group Development							
Netherlands <sup>e</sup>	2020	876	0	10	3.65	0.5	Value in use
	2019	679	0	10	4.07	0.5	Value in use
Deutsche Funkturm	2020	259	0	10	3.74	1.0	Level 3
	2019	259	0	10	3.78	1.0	Level 3
T-Mobile Infra B.V. <sup>e</sup>	2020						
	2019	259	0	10	4.59	0.5	Value in use
Group Headquarters & Group Services							
Deutsche Telekom IT	2020	590	0	10	6.63	1.0	Level 3
	2019	590	0	10	7.13	1.0	Level 3
Deutsche Telekom in total	2020	19,819	26				
	2019	12,436	0				

a Discount rate consistently after taxes. The discount rate before taxes for the calculation of the value in use amounts to 6.82 % (2019: 7.47 %) for Croatia, 8.18 % to 8.27 % (2019: 8.79 % to 9.01 %) for Other, and 4.52 % (2019: 4.90 %) for the Netherlands.

e Reclassification of goodwill to non-current assets and disposal groups held for sale due to the planned sale of T-Mobile Infra B.V.

millions of € <sup>a</sup>		Increas	e (decrease) in pro ra	ta impairment losses ii	n 2020	
	Decrease of discount rate by 50 basis points	Decrease of net cash flows by 5.0 %	Decrease of sustainable growth rate by 50 basis points	Increase of discount rate by 50 basis points	Increase of net cash flows by 5.0 %	Increase of sustainable growth rate by 50 basis points
Europe						
Montenegro	-7 (-35/ 7,30 %/5,74 %)	6 (-35/ 100 %/126,57 %)	4 (-35/ 2,0 %/4,24 %)	7 (-35/ 7,30 %/5,74 %)	-5 (-35/ 100 %/126,57 %)	-4 (-35/ 2,0 %/4,24 %)

<sup>&</sup>lt;sup>a</sup> Where a change in the parameters results in an impairment loss, the following information is indicated in parentheses: the current amount by which the unit's recoverable amount exceeds its carrying amount, the current value of the parameter, and the value of the parameter that makes the recoverable amount of the cash-generating unit equal to the unit's carrying amount.

The sensitivity analysis of the impairment losses lists all those cash-generating units where the sensitivity analysis resulted in an impairment loss or a change in the impairment loss. The sensitivity analysis was performed separately for each parameter, i.e., a change in the impairment charge on a cash-generating unit is only determined by reducing or increasing the parameter under consideration.

Deutsche Telekom had commitments for the acquisition of intangible assets in the amount of EUR 1.1 billion (December 31, 2019: EUR 0.4 billion) as of the reporting date. The majority of this related to commitments entered into by T-Mobile US.

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

<sup>&</sup>lt;sup>c</sup> The goodwill of the Systems Solutions and Telekom Global Carrier cash-generating units was transferred in full to the Germany cash-generating unit in 2020 in connection with the realignment of the B2B telecommunications business. The prior-year comparative was not adjusted.

d This includes goodwill from the cash-generating units Montenegro and North Macedonia.



# 7 Property, plant and equipment

·					
millions of €				_	
	Land and equivalent				
	rights, and				
	buildings		Other	A 1	
	including buildings on	Technical	equipment, operating and	Advance payments and	
	land owned by	equipment and	office	construction in	
	third parties	machinery	equipment	progress	Total
Cost					
At December 31, 2018	17,963	130,520	9,437	4,162	162,082
Transfer resulting from changes in accounting standards <sup>a</sup>	(1.474)	(3,067)	(14)	(2)	(4,558)
Currency translation	(1,474)	400	(16)	(2)	(4,558)
Changes in the composition of the Group	0	273	2	23	298
Additions	90	3,993	497	6,065	10,644
Disposals	(229)	(4,733)	(607)	(125)	(5,694)
Change from non-current assets and disposal	(227)	(1,700)	(007)	(120)	(0,07-1)
groups held for sale	(51)	(4)	0	(3)	(58)
Reclassifications	177	5,502	488	(5,975)	192
At December 31, 2019	16,522	132,885	9,839	4,174	163,421
Transfer resulting from changes in accounting standards <sup>a</sup>	0	0	0	0	0
Currency translation	(562)	(4,304)	(318)	(229)	(5,413)
Changes in the composition of the Group	2,002	11,222	261	168	13,653
Additions	2,002	5,711	571	9,337	15,734
Disposals	(182)	(7,414)	(717)	(199)	(8,512)
Change from non-current assets and disposal	(102)	(7,111)	(, 1, )	(177)	(0,012)
groups held for sale	(131)	(1,443)	(71)	(79)	(1,723)
Reclassifications	738	8,111	679	(8,428)	1,100
At December 31, 2020	18,503	144,769	10,244	4,745	178,261
Accumulated depreciation and impairment losses					
At December 31, 2018	(11,675)	(93,440)	(6,337)	0	(111,452)
Transfer resulting from changes in accounting standards <sup>a</sup>	1,145	882	7	0	2,034
Currency translation	(29)	(225)	(17)	0	(271)
Changes in the composition of the Group	0	(1)	(1)	0	(2)
Additions (depreciation)	(613)	(7,362)	(911)	0	(8,886)
Additions (impairment)	(1)	(287)	(16)	(15)	(319)
Disposals	177	4,428	528	0	5,133
Change from non-current assets and disposal	47	4	0	7	24
groups held for sale  Reclassifications	13 53	(174)	(16)	0	(137)
Reversal of impairment losses	7	0	0	0	7
At December 31, 2019	(10,923)	(96,176)	(6,761)	(13)	(113,872)
Transfer resulting from changes in accounting	(10,723)	(70,170)	(0,701)	(13)	(113,072)
standards <sup>a</sup>	0	0	0	0	0
Currency translation	228	2,080	192	0	2,499
Changes in the composition of the Group	0	11	8	0	19
Additions (depreciation)	(725)	(11,787)	(985)	0	(13,496)
Additions (impairment)	(28)	(140)	(27)	(16)	(210)
Disposals	172	6,069	655	7	6,903
Change from non-current assets and disposal groups held for sale	60	1,337	64	5	1,466
Reclassifications	4	(641)	(12)	0	(649)
Reversal of impairment losses	4	48	1	0	53
At December 31, 2020	(11,207)	(99,198)	(6,864)	(17)	(117,286)
Net carrying amounts	(11,207)	(77,170)	(0,004)	(1/)	(117,200)
At December 31, 2019	5,599	36,710	3,079	4,161	49,548
At December 31, 2020	7,296	45,571	3,380	4,728	60,975
At December 31, 2020	1,270	40,071	3,300	4,720	00,773

<sup>&</sup>lt;sup>a</sup> Due to the introduction of accounting standard IFRS 16 "Leases," leased assets arising from finance leases, which were previously disclosed under property, plant and equipment, were reclassified as right-of-use assets and lease liabilities as of January 1, 2019.



The carrying amount of property, plant and equipment increased by EUR 11.4 billion to EUR 61.0 billion compared with December 31, 2019, primarily due to the following effects: effects from changes in the composition of the Group in connection with the acquisition of Sprint contributed EUR 13.7 billion to this increase. Additions of EUR 15.7 billion to upgrade and build out the network in our United States operating segment and in connection with the broadband/fiber-optic build-out, the IP transformation, and mobile infrastructure in the Germany and Europe operating segments also increased the carrying amount. Depreciation of EUR 13.5 billion and negative exchange rate effects of EUR 2.9 billion, especially from the translation of U.S. dollars into euros, lowered the carrying amount. Disposals of EUR 1.6 billion, reclassifications to non-current assets and disposal groups held for sale of EUR 0.3 billion, and impairment losses of EUR 0.2 billion reduced the carrying amount. The impairment losses are primarily related to the ad hoc impairment tests described in Note 6 "Intangible assets."

Ad hoc impairment tests were conducted at the Romania – Fixed network TKR and Romania – Mobile communications TKRM cash-generating units, which are assigned to the Europe operating segment. In the Romanian fixed-network business TKR, the agreed sale of TKR resulted in a reversal of impairment losses recognized in the past on property, plant and equipment of EUR 50 million. The recoverable amount was calculated at EUR 242 million, which is EUR 50 million higher than the carrying amount of TKR. The observable market price (Level 1 input parameter/agreed purchase price) was used to determine the recoverable amount. The reversal of impairment losses was recognized as other operating income.

For further information, please refer to the section "Changes in the composition of the Group and other transactions."

For further information on depreciation and amortization, please refer to Note 27 " $\underline{\text{Depreciation, amortization and impairment losses}}$ " and Note 6 " $\underline{\text{Intangible}}$  assets."

Deutsche Telekom had commitments for the acquisition of property, plant and equipment in the amount of EUR 7.0 billion as of the reporting date (December 31, 2019: EUR 4.4 billion). Restoration obligations of EUR 0.9 billion were recognized as of December 31, 2020 (December 31, 2019: EUR 0.2 billion), mainly attributable to restoration obligations of T-Mobile US.

# 8 Right-of-use assets - lessee relationships

millions of €					
	Land and equivalent rights, and buildings including buildings on land owned by third parties	Land and buildings from sale and leaseback transactions	Technical equipment and machinery	Other equipment, operating and office equipment	Total
Carrying amounts of right-of-use assets by class of underlying asset					
Initial application of IFRS 16 as of January 1, 2019	5,978	649	9,527	85	16,239
Currency translation	29	(1)	178	0	206
Changes in the composition of the Group	128	0	6	43	177
Additions	1,472	106	3,821	81	5,481
Disposals	(231)	(83)	(46)	(7)	(368)
Depreciation and amortization	(1,215)	(142)	(2,227)	(65)	(3,649)
Impairment losses	0	0	0	0	0
Reclassifications	3	0	(88)	(3)	(88)
At December 31, 2019	6,163	529	11,171	135	17,998
Currency translation	(254)	(2)	(1,849)	(6)	(2,111)
Changes in the composition of the Group	580	0	5,674	36	6,291
Additions	1,409	93	12,727	49	14,278
Disposals	(237)	(64)	(79)	(7)	(386)
Depreciation and amortization	(1,352)	(112)	(3,518)	(82)	(5,064)
Impairment losses	(1)	0	(62)	0	(63)
Reclassifications	0	0	(500)	(7)	(507)
Reversal of impairment losses	2	0	0	0	2
Change from non-current assets and disposal groups held for sale	(118)	0	(12)	(6)	(136)
At December 31, 2020	6,193	445	23,552	111	30,302

The carrying amount of right-of-use assets increased by EUR 12.3 billion compared to December 31, 2019 to EUR 30.3 billion, mainly due to the following effects. The change in the composition of the Group in connection with the business combination of T-Mobile US and Sprint contributed EUR 6.3 billion to this increase. Additions of EUR 14.3 billion, mainly in the United States operating segment, also increased the carrying amount. In September 2020, T-Mobile US and American Tower signed an agreement on the lease and use of cell sites. This was a modification to existing agreements with American Tower. The agreement gives T-Mobile US greater flexibility in the course of merging the mobile networks of T-Mobile US and Sprint and of the 5G network build-out. The agreement primarily provides for a contract extension until April 30, 2035 and modifies the lease payments for 20,729 existing cell sites. The lease modification resulted in an increase in the carrying amount of the right-of-use assets and the lease liabilities by EUR 9.4 billion in each case. By contrast, depreciation of EUR 5.1 billion, negative exchange rate effects of EUR 2.1 billion, and disposals of EUR 0.4 billion decreased the carrying amount. Reclassifications to assets and disposal groups held for sale on account of the intention to sell the two subsidiaries Telekom Romania S.A. and T-Mobile Infra B.V. reduced the carrying amount by EUR 0.1 billion.

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.

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 86 million (December 31, 2019: EUR 103 million). The corresponding depreciation amounted to EUR 18 million in the reporting year (December 31, 2019: EUR 18 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 30 million (December 31, 2019: EUR 17 million). The corresponding depreciation amounted to EUR 13 million in the reporting year (December 31, 2019: EUR 5 million).

Right-of-use assets in connection with sale and leaseback transactions mainly relate to office and technical facilities in the Group Headquarters & Group Services segment, with Group companies selling real estate and then leasing back the facilities and buildings required for business. No significant gains and losses from sale and leaseback transactions were recorded in the 2020 and 2019 financial years.

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 "Summary of accounting policies – Accounting policies."

# 9 Capitalized contract costs

millions of €		
	Dec. 31, 2020	Dec. 31, 2019
Costs of obtaining a contract	2,182	2,059
Costs to fulfill a contract	10	15
	2,192	2,075

As of December 31, 2020, the carrying amount of capitalized contract costs stood at EUR 2.2 billion and was thus EUR 0.1 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 United States operating segment. 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 1,668 million (2019: EUR 1,388 million) were written down on a straight-line basis over the estimated customer retention period.



#### 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:

	Deutsche Te	lekom share		tage of rights	Assigned to segment	Fair value of th if a listed ma avail	arket price is
Name and registered office	Dec. 31, 2020 %	Dec. 31, 2019 %	Dec. 31, 2020 %	Dec. 31, 2019 %		Dec. 31, 2020 millions of €	Dec. 31, 2019 millions of €
Hrvatske telekomunikacije d.d. Mostar, Mostar, Bosnia-Herzegovina <sup>a</sup>	39.10	39.10	39.10	39.10	Europe	30	31
Stratospheric Platforms Ltd., Isle of Man, United Kingdom	38.05	33.59	38.05	33.59	Group Development	n.a.	n.a.
T-Mobile USA Tower LLC, Wilmington, United States <sup>b</sup>	100.00	100.00	100.00	100.00	United States	n.a.	n.a.
T-Mobile West Tower LLC, Wilmington, United States <sup>b</sup>	100.00	100.00	100.00	100.00	United States	n.a.	n.a.

<sup>&</sup>lt;sup>a</sup> Indirect shareholding via Hrvatski Telekom d.d., Croatia (Deutsche Telekom AG's share: 51.71 %).

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

Hrvatske telekomunikacije d.d. (HT Mostar d.d.) provides mobile and fixed-network communications services in Bosnia-Herzegovina.

Stratospheric Platforms Ltd. develops new communications technologies for stationary and mobile use.

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 which 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 the lease out of 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.

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.

<sup>&</sup>lt;sup>b</sup> Indirect shareholding via T-Mobile US, Inc., United States (Deutsche Telekom AG's share: 43.37 %).





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

millions of €						
	HT Mos	tar d.d.	Stratospheric Platforms Ltd. <sup>a</sup>			
	Dec. 31, 2020/ 2020	Dec. 31, 2019/ 2019	Dec. 31, 2020/ 2020	Dec. 31, 2019/ 2019		
Current assets	45	45	11	16		
Of which: cash and cash equivalents	12	11	11	16		
Non-current assets	165	175	5	4		
Current liabilities	22	29	3	1		
Non-current liabilities	18	21	0	0		
Net revenue	38	40	0	0		
Profit (loss)	0	0	(24)	(17)		
Other comprehensive income	0	0	0	0		
Total comprehensive income	0	0	(24)	(17)		
Depreciation, amortization and impairment losses	(9)	(11)	0	0		
Dividends paid to Deutsche Telekom	0	0	0	0		

<sup>&</sup>lt;sup>a</sup> As financial data of Stratospheric Platforms Ltd. as of December 31, 2020 was not yet available to Deutsche Telekom at the date of preparation, the company's annual financial statements as of December 31, 2019 were used as a basis for the summarized financial information. The comparatives as of December 31, 2019 were similarly based on the company's annual financial statements as of December 31, 2018.

millions of €				
	T-Mobile US	A Tower LLC	T-Mobile We	est Tower LLC
	Dec. 31, 2020/ 2020	Dec. 31, 2019/ 2019	Dec. 31, 2020/ 2020	Dec. 31, 2019/ 2019
Current assets	0	0	0	0
Non-current assets	117	118	157	160
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

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

millions of €				
	HT Most	ar d.d.	Stratospheric F	Platforms Ltd. <sup>a</sup>
	2020	2019	2020	2019
Net assets as of January 1	170	169	20	9
Profit (loss)	0	0	(24)	(17)
Other comprehensive income	0	0	0	0
Share-based payment	0	0	0	0
Change in interest without loss of control	0	0	0	0
Dividends paid	0	0	0	0
Capital increase	0	0	17	28
Exchange rate effects	0	1	1	0
Net assets as of December 31 <sup>b</sup>	170	170	14	20
Share of net assets attributable to Deutsche Telekom as of December 31 <sup>b</sup>	66	66	5	6
Goodwill – equity method	0	0	55	60
Reversal of impairment losses	0	0	0	0
Other reconciliation effects	(16)	(15)	0	0
Carrying amount as of December 31	50	51	60	66

a As financial data of Stratospheric Platforms Ltd. as of December 31, 2020 was not yet available to Deutsche Telekom at the date of preparation, the company's annual financial statements as of December 31, 2019 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 resulting effects for the extrapolation of the carrying amount as of December 31, 2020 were estimated and are included under other reconciliation effects. Similarly, the comparatives as of December 31, 2019 are summarized financial information determined on the basis of the company's annual financial statements as of December 31, 2018 and the reconciliation statement.

b The figures for net assets and the share of the net assets of Stratospheric Platforms Ltd. relate to December 31, 2019 and December 31, 2018, respectively.





millions of €				
	T-Mobile USA	A Tower LLC	T-Mobile We	st Tower LLC
	2020	2019	2020	2019
Net assets as of January 1	118	62	160	95
Profit (loss)	10	54	11	63
Other comprehensive income	0	0	0	0
Dividends paid	0	0	0	0
Exchange rate effects	(11)	2	(14)	2
Net assets as of December 31	117	118	157	160
Share of net assets attributable to Deutsche Telekom as of December 31	117	118	157	160
Adjustment of carrying amount	0	0	0	0
Other reconciliation effects	0	0	0	0
Carrying amount as of December 31	117	118	157	160

In the reporting year, as in the prior year, Deutsche Telekom did not recognize losses in connection with investments included in the consolidated financial statements 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 v	entures	Asso	ciates
	Dec. 31, 2020/ 2020	Dec. 31, 2019/ 2019	Dec. 31, 2020/ 2020	Dec. 31, 2019/ 2019
Total carrying amounts	42	12	117	83
Total share in profit (loss)	(16)	(7)	(12)	(9)
Other comprehensive income	0	0	0	0
Total comprehensive income	(16)	(7)	(12)	(9)

# 11 Other financial assets

millions of €				
	Dec. 31	, 2020	Dec. 31	, 2019
	Total	Of which: current	Total	Of which: current
Originated loans and receivables	3,043	2,666	2,936	2,585
Other receivables – publicly funded projects	1,676	420	1,350	476
Derivative financial assets	4,038	45	2,333	88
Equity instruments – measured at fair value through profit or loss	3	0	22	22
Equity instruments – measured at fair value through other comprehensive income	425	0	293	0
Debt instruments – measured at fair value through profit or loss	203	5	115	6
Lease assets	248	87	197	76
Other	4	0	4	1
	9,640	3,224	7,250	3,254

Current and non-current other financial assets increased by EUR 2.4 billion compared with December 31, 2019 to EUR 9.6 billion. The acquisition of Sprint resulted in an increase of EUR 0.4 billion as of the date of first-time consolidation.





The carrying amount of derivative financial assets increased by EUR 1.7 billion. The carrying amount of derivatives without a hedging relationship increased by EUR 1.1 billion to EUR 2.0 billion, mainly in connection with the subsequent measurement of the stock options to buy shares in T-Mobile US received from SoftBank in June 2020 and with new additions of embedded derivatives and embedded derivatives assumed in connection with the acquisition of Sprint at T-Mobile US, including their subsequent measurement. Measurement effects from the derecognition of a derivative in connection with the repayment of a term loan raised during the course of the year had an offsetting effect. The carrying amount of derivatives with a hedging relationship increased by EUR 0.6 billion to EUR 2.0 billion, mainly due to the increase in positive fair values from interest rate swaps in fair value hedges, which is primarily the result of a significant decline in the interest rate level. In addition, other financial assets increased by EUR 0.3 billion in connection with grants receivable from funding projects for the broadband build-out in Germany.

Subsidiaries of Deutsche Telekom deposited cash collateral of EUR 446 million as of December 31, 2020 (December 31, 2019: EUR 70 million) in connection with auctions for the planned acquisition of spectrum licenses. At the reporting date, cash and cash equivalents of EUR 63 million when translated into euros (December 31, 2019: EUR 0 million) were pledged as collateral for liabilities with 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 34 million as of the reporting date (December 31, 2019: EUR 565 million). The decline in the balance is attributable to the forward-payer swaps concluded for borrowings at T-Mobile US, which were terminated prematurely in April 2020.

For further information on allowances and the credit ratings of originated loans and receivables, please refer to Note 41 "Financial instruments and risk management."

#### 12 Other assets

The carrying amount of current and non-current other assets increased by EUR 0.5 billion to EUR 2.6 billion. The inclusion of Sprint increased the carrying amount by EUR 0.6 billion. As of December 31, 2020, other assets mainly included advance payments in connection with agreements on services for certain mobile communications equipment that do not fall within the scope of IFRS 16, as well as further deferred expenses totaling EUR 2.2 billion (December 31, 2019: EUR 1.7 billion).

#### 13 Financial liabilities and lease liabilities

The following table shows the composition and maturity structure of financial liabilities as of December 31, 2020:

millions of €								
	Dec. 31, 2020							
	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	87,702	5,282	25,681	56,739	51,644	4,176	17,536	29,931
Liabilities to banks	5,257	2,152	1,666	1,439	6,516	2,690	2,656	1,170
Of which: promissory notes	737	58	287	392	722	0	188	534
Of which: loans from the European Investment Bank	3,240	1,073	1,276	891	2,981	173	2,351	457
Of which: other loans	1,280	1,021	103	156	2,813	2,517	117	179
	92,959	7,435	27,347	58,178	58,160	6,866	20,192	31,102
Liabilities to non-banks from promissory note bonds	490	0	53	437	699	200	53	446
Liabilities with the right of creditors to priority repayment in the event of default	3,886	859	2,257	769	0	0	0	0
Other interest-bearing liabilities	7,206	2,711	1,958	2,537	4,369	1,959	1,113	1,298
Other non-interest-bearing liabilities	1,703	1,563	134	6	1,476	1,332	136	8
Derivative financial liabilities	864	85	252	527	1,645	1,105	115	425
	14,149	5,217	4,655	4,277	8,189	4,597	1,416	2,176
Financial liabilities	107,108	12,652	32,002	62,455	66,349	11,463	21,608	33,278
Lease liabilities	32,715	5,108	12,610	14,997	19,835	3,987	10,250	5,599



The carrying amount of current and non-current financial liabilities increased by EUR 40.8 billion to EUR 107.1 billion compared with the end of 2019. This increase is mainly attributable to the first-time consolidation of Sprint following the consummation of the business combination with T-Mobile US. Exchange rate effects, in particular from the translation of U.S. dollars into euros, lowered the carrying amount by EUR 6.9 billion.

The first-time consolidation of Sprint as of April 1, 2020 increased the carrying amount of financial liabilities by a total of EUR 39.1 billion. The financing structure was also reorganized in the course of the business combination. Immediately after the transaction, liabilities of the former Sprint totaling USD 9.8 billion (EUR 8.9 billion) were repaid, of which USD 7.4 billion (EUR 6.8 billion) fell due pursuant to a binding change-in-control clause.

In connection with the business combination with Sprint, on April 1, 2020, the "new" T-Mobile US drew down on a bridge loan facility agreed with a total of 16 banks with a total volume of USD 19 billion (EUR 17.3 billion). In connection with the financing provided with this bridge loan facility, fees of USD 0.4 billion (EUR 0.3 billion) were paid to the banks. Additionally, T-Mobile US raised a new term loan of USD 4 billion (EUR 3.7 billion) on April 1, 2020. The loan facilities were used, among other things, for the early repayment of intragroup loan liabilities to Deutsche Telekom AG and to refinance debt of the former Sprint. Senior secured notes, issued on April 9, 2020 for a total of USD 19 billion (EUR 17.3 billion), with terms of between 5 and 30 years and bearing interest of between 3.500 % and 4.500 %, were used to repay the bridge loan facility. On June 24, 2020, T-Mobile US issued senior secured notes with a total volume of USD 4 billion (EUR 3.6 billion) with terms of between 6 and 11 years and bearing interest of between 1.500 % and 2.550 %. These notes were used to repay intragroup loans and refinance high-yield bonds issued by the former Sprint. On July 4, 2020, T-Mobile US prematurely redeemed the USD 1.0 billion (EUR 0.9 billion) aggregate principal amount of a 6.500 % senior note originally due in 2024. On August 15, 2020, T-Mobile US repaid a senior note on schedule with a nominal volume of USD 1.5 billion (EUR 1.3 billion) with a term of 8 years and bearing interest of 7.000 %. On September 1, 2020, the USD 1.7 billion (EUR 1.4 billion) aggregate principal amount of another 6.375 % senior note, originally due in 2025, was prematurely redeemed. On October 6, 2020, T-Mobile US issued senior secured notes with a total volume of USD 4 billion (EUR 3.4 billion) with terms ending between 2028 and 2051 and bearing interest of between 2.050 % and 3.300 %. The cash received was used on October 9, 2020 to prematurely repay the term loan originated on April 1, 2020. On October 28, 2020, T-Mobile US issued senior secured notes with a total volume of USD 4.75 billion (EUR 4.0 billion) with terms ending between 2031 and 2060 and bearing interest of between 2.250 % and 3.600 %.

The carrying amount was also increased by bonds issued by Deutsche Telekom AG in the first quarter of 2020: a U.S. dollar bond of USD 1.3 billion (EUR 1.1 billion), a euro bond of EUR 0.2 billion, and a bond in Swiss francs of CHF 0.3 billion (EUR 0.3 billion). Magyar Telekom issued a bond in Hungarian forints of HUF 70 billion (EUR 0.2 billion) in the fourth quarter of 2020

Scheduled repayments in the Group of U.S. dollar bonds totaling USD 1.3 billion (EUR 1.2 billion), euro bonds totaling EUR 2.6 billion, and a zero-coupon bond of EUR 0.4 billion, had an offsetting effect in the reporting period. In addition, as part of the liabilities management in the Group, early repayments were made on euro bonds and U.S. dollar bonds of Deutsche Telekom International Finance B.V. which fall due in 2021 and 2022. These repayments took the form of partial buybacks totaling EUR 0.8 billion and USD 1.4 billion (EUR 1.3 billion) respectively.

The carrying amount of liabilities to banks decreased by EUR 1.3 billion compared with December 31, 2019 to EUR 5.3 billion. This decline is mainly due to the net reduction of EUR 1.4 billion in the balance of short-term borrowings. This includes a Deutsche Bundespost treasury note (zero-coupon bond) issued in the past with a carrying amount of EUR 1.4 billion, which fell due on December 31, 2019 and was repaid on that date by a bank using its own funds. The payment by Deutsche Telekom AG to this bank was made on the following bank working day of January 2, 2020.

For further information, please refer to Note 35 "Notes to the consolidated statement of cash flows."

The liabilities with right of creditors to priority repayment in the event of default with a carrying amount of EUR 3.9 billion (December 31, 2019: EUR 0.0 billion) relate primarily to fixed-income bonds issued by Sprint. The bonds are repayable on a pro rata basis and mature between 2021 and 2028. Their entire outstanding nominal amount at the reporting date was EUR 3.7 billion when translated into euros. Collateral was provided for these bonds, hence they constitute a separate class of financial instruments. At the reporting date, cash and cash equivalents with a carrying amount of EUR 63 million when translated into euros were pledged as collateral for these bonds.





The carrying amount of other interest-bearing liabilities increased by EUR 2.8 billion compared with December 31, 2019 to EUR 7.2 billion. The acquisition of Sprint resulted in an increase of EUR 2.7 billion in the carrying amount of non-current other interest-bearing liabilities as of the date of first-time consolidation.

The carrying amount of derivative financial liabilities decreased by EUR 0.8 billion in total to EUR 0.9 billion, mainly due to the decline of EUR 1.0 billion from the premature termination of forward-payer swaps by T-Mobile US at the start of April 2020. These forward-payer swaps with a nominal value of EUR 8.8 billion when translated into euros were concluded for borrowings at T-Mobile US and designated as cash flow hedges in effective hedging relationships. By the date of termination, they gave rise to a remeasurement loss recognized directly in equity in the reporting period of EUR 0.9 billion. The secured term loan was originated on April 1, 2020.

For further information on derivative financial liabilities, please refer to Note 41 "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 successful business combination between T-Mobile US and Sprint, T-Mobile US has pursued its own separate financing and liquidity strategy.

At December 31, 2020, Deutsche Telekom (excluding T-Mobile US) had standardized bilateral credit agreements with 21 banks for a total of EUR 12.6 billion. None of these lines of credit had been utilized as of December 31, 2020. In the prior year, a transaction of EUR 0.6 billion was temporarily deducted from a credit line. 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 twelve months, be extended by a further twelve 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 5.5 billion (EUR 4.5 billion) plus a cash balance of USD 10.4 billion (EUR 8.5 billion) were available to T-Mobile US as of December 31, 2020. None of these credit lines had been utilized as of December 31, 2020.

The carrying amount of current and non-current **lease liabilities** increased by EUR 12.9 billion to EUR 32.7 billion compared with December 31, 2019, primarily due to the following effects. EUR 6.8 billion of the increase resulted from the inclusion of Sprint in the United States operating segment, to which the majority of the lease liabilities relate. The carrying amount also increased by EUR 9.4 billion as a result of the lease modification to existing leases that T-Mobile US concluded with American Tower. Exchange rate effects, in particular from the translation of U.S. dollars into euros, lowered the carrying amount by EUR 2.3 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 2019 financial year, there were no significant expenses for variable lease payments that were not included in the measurement of lease liabilities.

As of December 31, 2020, 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 0.2 billion (December 31, 2019: EUR 0.3 billion).

The following tables show the contractually agreed (undiscounted) 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	0 1 4 1 0004			2		
	Dec. 31, 2020	Fixed interest rate	Variable interest rate	Repay- ment	Fixed interest rate	Variable interest rate	Repay- ment
Non-derivative financial liabilities (excluding lease liabilities) Bonds, other securitized liabilities, liabilities to banks and liabilities to non-banks from promissory notes and similar liabilities	(07.440)	(2.505)	0	(/ 750)	(7.775)	0	(/ 57/)
Liabilities with the right of creditors to priority	(93,449)	(2,595)	0	(6,359)	(3,335)	0	(6,536)
repayment in the event of default	(3,886)	(163)	0	(856)	(135)	0	(428)
Other interest-bearing liabilities	(7,206)	(21)	(2)	(2,711)	(24)	(2)	(774)
Other non-interest-bearing liabilities	(1,703)	0	0	(1,563)		0	(106)
Lease liabilities	(32,715)	(1,108)	0	(5,110)	(938)	0	(4,347)
Derivative financial liabilities and assets							
Derivative financial liabilities:							
Currency derivatives without a hedging relationship	(41)	0	0	(32)	0	0	(6)
Currency derivatives in connection with cash flow hedges	(28)	0	0	(26)	0	0	0
Embedded derivatives without a hedging relationship	(129)	0	0	(18)	0	0	(7)
Other derivatives without a hedging relationship	(13)	0	0	(2)	0	0	(10)





millions of €							
	Carrying amount	Cas	sh flows in 202	21	Cas	sh flows in 202	2
	Dec. 31, 2020	Fixed interest rate	Variable interest rate	Repay- ment	Fixed interest rate	Variable interest rate	Repay- ment
Interest rate derivatives without a hedging relationship	(295)	55	(54)	(19)	28	(20)	(25)
Interest rate derivatives in connection with fair value hedges	(52)	(61)	98	0	(61)	98	0
Interest rate derivatives in connection with cash flow hedges	(307)	73	(117)	0	73	(117)	3
Derivative financial assets: <sup>a</sup>							
Currency derivatives without a hedging relationship	15	0	0	16	0	0	0
Currency derivatives in connection with cash flow hedges	8	0	0	4	0	0	0
Embedded derivatives without a hedging relationship	77	0	0	0	0	0	(1)
Other derivatives without a hedging relationship	0	0	0	0	0	0	0
Interest rate derivatives without a hedging relationship	191	(18)	27	0	(6)	8	116
Interest rate derivatives in connection with fair value							
hedges	2,025	(148)	465	0	(146)	455	0
Interest rate derivatives in connection with cash flow hedges	12	(5)	11	0	(4)	9	7

millions of €	Cach f	lows in 2023	-2025	Cash f	lows in 2026	-2030	Cash	flows in 203	1 and
	Fixed interest rate	Variable interest rate	Repay- ment	Fixed interest rate	Variable interest rate	Repay- ment	Fixed interest rate	Variable interest rate	Repay- ment
Non-derivative financial liabilities (excluding lease liabilities)									
Bonds, other securitized liabilities, liabilities to banks and liabilities to non- banks from promissory notes and similar liabilities	(8,018)	0	(19,930)	(8,093)	0	(34,133)	(8,349)	0	(21,758)
Liabilities with the right of creditors to	(0,010)		(17,700)	(0,070)		(01,100)	(0,017)		(21,700)
priority repayment in the event of default	(235)	0	(1,787)	(43)	0	(599)	0	0	0
Other interest-bearing liabilities	(47)	(1)	(1,184)	(50)	0	(1,811)	(22)	0	(726)
Other non-interest-bearing liabilities	0		(28)		0	(5)	0	0	(1)
Lease liabilities	(2,157)	0	(8,309)	(2,780)	0	(14,373)	(119)	0	(529)
Derivative financial liabilities and assets									
<b>Derivative financial liabilities:</b> Currency derivatives without a hedging relationship	0	0	0	0	0	0	0	0	0
Currency derivatives in connection with cash flow hedges	0	0	0	0	0	0	0	0	0
Embedded derivatives without a hedging relationship	0	0	(28)	0	0	(65)	0	0	(37)
Other derivatives without a hedging relationship	0	0	(2)	0	0	0	0	0	0
Interest rate derivatives without a hedging relationship	31	(2)	(69)	22	0	(74)	(2)	0	35
Interest rate derivatives in connection with fair value hedges	(184)	292	(7)	(275)	419	(131)	(1)	2	(2)
Interest rate derivatives in connection with cash flow hedges	177	(271)	0	7	44	95	0	(4)	28
Derivative financial assets: <sup>a</sup> Currency derivatives without a hedging relationship									
Currency derivatives in connection with cash flow hedges	0	0	0	0	0	0	0	0	0
Embedded derivatives without a hedging relationship	0	0	19	0	0	40	0	0	25
Other derivatives without a hedging relationship	0	0	0	0	0	0	0	0	0
Interest rate derivatives without a hedging relationship	(2)	16	17	(8)	44	0	34	17	25
Interest rate derivatives in connection with fair value hedges	(425)	1,258	(5)	(557)	1,407	(37)	(846)	1,898	(9)
Interest rate derivatives in connection with cash flow hedges	1	4	0	0	0	0	0	0	0

<sup>&</sup>lt;sup>a</sup> This does not include payments that Deutsche Telekom would have to make in the event of exercising options to buy 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 9,915 million when translated into euros, based on the share price at the reporting date. For further information on these stock options, please refer to Note 41 "Financial instruments and risk management" in the comments on financial liabilities assigned to Level 3. Deutsche Telekom also holds other immaterial options to buy company shares.

millions of €						
	Carrying			Cash flows in		
	amount _			Casil itows iii		2030 and
	Dec. 31, 2019	2020	2021	2022-2024	2025-2029	thereafter
Non-derivative financial liabilities						
(excluding lease liabilities)						
Bonds, other securitized liabilities,						
liabilities to banks and liabilities to non-						
banks from promissory notes and similar	4	4	4	4	4	4
liabilities	(58,859)	(5,766)	(6,930)	(19,462)	(24,888)	(14,141)
Other interest-bearing liabilities	(4,369)	(1,981)	(807)	(396)	(1,176)	(202)
Other non-interest-bearing liabilities	(1,476)	(1,332)	(125)	(11)	(1)	(7)
Lease liabilities	(19,835)	(4,756)	(4,163)	(7,658)	(5,371)	(684)
Derivative financial liabilities and assets						
Derivative financial liabilities:						
Currency derivatives without a hedging						
relationship	(59)	(68)	(1)	0	0	0
Currency derivatives in connection with						
cash flow hedges	(4)	(3)	0	0	0	0
Embedded derivatives without a hedging						
relationship	(146)	(9)	(8)	(32)	(78)	(84)
Other derivatives without a hedging						
relationship	(7)	0	0	(9)	0	0
Interest rate derivatives without a						
hedging relationship	(112)	(8)	(37)	(58)	(22)	166
Interest rate derivatives in connection						
with fair value hedges	(65)	16	22	71	99	87
Interest rate derivatives in connection						
with cash flow hedges	(1,249)	(1,147)	(27)	(192)	(19)	11
Derivative financial assets:						
Currency derivatives without a hedging						
relationship	49	46	0	0	0	0
Currency derivatives in connection with						
cash flow hedges	5	2	0	0	0	0
Embedded derivatives without a hedging						
relationship	0	0	0	0	0	0
Other derivatives without a hedging						
relationship	3	2	1	2	0	0
Interest rate derivatives without a						
hedging relationship	212	(26)	(32)	28	148	226
Interest rate derivatives in connection						
with fair value hedges	1,153	256	229	654	754	410
Interest rate derivatives in connection						
with cash flow hedges	281	68	64	210	228	269

All instruments held at December 31, 2020 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, 2020. 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, 2020, this figure was a nominal EUR 0.1 billion (December 31, 2019: EUR 0.5 billion).

# 14 Trade and other payables

millions of €		
	Dec. 31, 2020	Dec. 31, 2019
Trade payables	9,691	9,410
Other liabilities	68	21
	9,760	9,431

The carrying amount of trade and other payables increased year-on-year by EUR 0.3 billion to EUR 9.8 billion. The inclusion of Sprint increased the carrying amount by EUR 2.9 billion. This was offset in particular by lower liabilities to terminal equipment vendors and declines in liabilities in connection with the acquisition of assets in the United States operating segment. Liabilities also decreased in the other operating segments. Exchange rate effects, especially from the translation from U.S. dollars into euros, also decreased the carrying amount.

Of the total of trade and other payables, EUR 9,691 million (December 31, 2019: EUR 9,410 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 pension obligations are as follows:

millions of €		
	Dec. 31, 2020	Dec. 31, 2019
Defined benefit liability	7,684	5,831
Defined benefit asset	(19)	(21)
Net defined benefit liability (asset)	7,665	5,810
Of which: provisions for direct commitments	7,042	5,775
Of which: provisions for indirect commitments	623	35

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 increase in provisions for pensions compared with the prior year was mainly due to the decline in the price of the shares in BT, which had been transferred to plan assets, as well as discount rate adjustments, which resulted in an actuarial loss of EUR 1.4 billion from the remeasurement of defined benefit plans. In addition, the carrying amount increased by EUR 0.8 billion due to the change in the composition of the Group in connection with the business combination of T-Mobile US and Sprint.

# Calculation of net defined benefit liabilities/assets

millions of €		
	Dec. 31, 2020	Dec. 31, 2019
Present value of the obligations fully or partially funded by plan assets	12,140	9,045
Plan assets at fair value	(6,698)	(6,489)
Defined benefit obligations in excess of plan assets	5,441	2,556
Present value of the unfunded obligations	2,222	3,245
Defined benefit liability (asset) according to IAS 19.63	7,663	5,801
Effect of asset ceiling (according to IAS 19.64)	2	9
Net defined benefit liability (asset)	7,665	5,810

millions of €		
	2020	2019
Net defined benefit liability (asset) as of January 1	5,810	5,491
Service cost	41	245
Net interest expense (income) on the net defined benefit liability (asset)	86	87
Remeasurement effects	1,358	603
Pension benefits paid directly by the employer	(287)	(155)
Employer contributions to plan assets	(61)	(449)
Changes attributable to business combinations/transfers of operation/acquisitions and disposals	816	(12)
Reclassifications to liabilities directly associated with non-current assets and disposal groups held for sale	(10)	n.a.
Administration costs actually incurred (paid from plan assets)	0	0
Exchange rate fluctuations for plans in foreign currency	(89)	0
Net defined benefit liability (asset) as of December 31	7,665	5,810

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 on which the measurement of defined benefit obligations as of December 31 of the respective year are 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. The discount rate as of April 1, 2020 was used for the first-time inclusion of the obligations and to measure the expected pension expense in the United States.





#### Assumptions for the measurement of defined benefit obligations as of December 31

%				
		2020	2019	2018
Discount rate	Germany	0.85	1.14	1.60
	United States	2.75	n.a.	n.a.
	Switzerland	0.07	0.29	0.82
Salary increase rate	Germany	2.50	2.50	2.50
	United States <sup>a</sup>	4.25	n.a.	n.a.
	Switzerland	1.00	1.00	1.00
Pension increase rate	Germany (general)	1.50	1.50	1.50
	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>&</sup>lt;sup>a</sup> The salary increase rate in the United States only has a marginal impact on the amount of the pension obligations, since almost all commitments are frozen.

years			
		Dec. 31, 2020	Dec. 31, 2019
Duration	Germany	12.9	12.7
	United States	14.4	n.a.
	Switzerland	15.7	15.9

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

Germany: Heubeck 2018G, Switzerland: BVG 2015 Generational, United States: Pri-2012 tables.

The aforementioned discount rates were used as of December 31, 2020 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).

As of March 31, 2019, Deutsche Telekom changed the method it uses to calculate the discount rate in the euro zone, Switzerland, and the United Kingdom for determining pension obligations in accordance with IAS 19. The changes resulted from a change in provider for the determination of the yield curves.

Under the new method, adjustments are made in relation to the selection of the bonds available on the market (previous data basis: Bloomberg; data basis after adjustment: Thomson Reuters) as well as in the determination of the yield curve from this data. The first step is to remove bonds with special options (e.g., put or call options) or other properties (e.g., low-volume bonds, bundled bonds) from the available portfolio. Then a regression curve is determined based on the bond market so as to identify potential outliers (calculated using the double standard deviation) and likewise remove these from the bond portfolio for determining the interest rate. The yield curve determined using this method is subsequently applied to the cash flows in the pension plans so as to determine an equivalent uniform discount rate.

In 2019, the Group's pension obligations were based on pension commitments mainly in Germany, Greece, and Switzerland. Without the change, the discount rate as of December 31, 2019 would have been 0.30 percentage points lower in Germany, 0.30 or 0.23 percentage points lower in Greece (OTE) for the plan for staff retirement indemnities and the plan for youth accounts respectively, and 0.07 percentage points lower in Switzerland. In 2019, the defined benefit obligations would have been EUR 442 million higher and the service cost for 2020 EUR 11 million higher.





# Development of defined benefit obligations in the reporting year

millions of €		
	2020	2019
Defined benefit obligations as of January 1	12,290	11,590
Current service cost	256	250
Interest cost	183	186
Remeasurement effects	663	656
Of which: experience-based adjustments	57	0
Of which: adjusted financial assumptions	617	664
Of which: adjusted demographic assumptions	(11)	(8)
Total benefits actually paid	(503)	(397)
Contributions by plan participants	4	4
Changes attributable to business combinations/transfers of operation/acquisitions and disposals	1,925	(12)
Past service cost (due to plan amendments/curtailments) <sup>a</sup>	(223)	(8)
Settlements	8	3
Reclassifications to liabilities directly associated with non-current assets and disposal groups held for sale	(10)	n.a.
Taxes to be paid as part of pensions	0	0
Exchange rate fluctuations for plans in foreign currency	(232)	18
Defined benefit obligations as of December 31	14,362	12,290
Of which: active plan participants	5,803	5,576
Of which: plan participants with vested pension rights who left the Group	3,099	2,448
Of which: benefit recipients	5,459	4,266

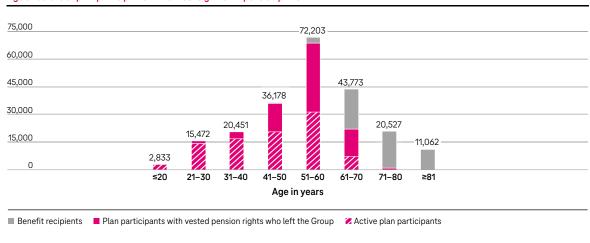
<sup>&</sup>lt;sup>a</sup> The past service cost due to plan amendments in 2020 relates primarily to a restructuring of risk benefits in Germany (please refer to the following section "Global Pension Policy and description of the plans").

# Distribution of obligations relating to Deutsche Telekom's most significant plans as of December 31, 2020 and December 31, 2019

millions of €								
		Dec. 31, 2020				Dec.	31, 2019	
	Germany	United States	Switzerland	Other plans	Germany	United States	Switzerland	Other plans
Defined benefit obligations	11,763	1,846	235	518	11,530	n.a.	221	539
Plan assets at fair value	(5,013)	(1,171)	(237)	(278)	(6,007)	n.a.	(230)	(252)
Effect of asset ceiling	0	0	2	0	0	n.a.	9	0
Net defined benefit liability (asset)	6,750	675	0	240	5,524	n.a.	0	286

The following comments on the age structure and sensitivity analysis, as well as 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, 2020. A change in the measurement assumptions to the extent described below, with otherwise unchanged assumptions, would have impacted the defined benefit obligations as of December 31, 2020 as follows:

millions of €						
	•	Increase (decrease) of the defined benefit obligations as of Dec. 31, 2020			ecrease) of the definations as of Dec. 31,	
	Germany	United States	Switzerland	Germany	United States	Switzerland
Increase of discount rate by 100 basis points	(1,291)	(232)	(26)	(1,284)	n.a.	(25)
Decrease of discount rate by 100 basis points	1,575	287	34	1,566	n.a.	32
Increase of salary increase rate by 50 basis points	3	0	1	6	n.a.	1
Decrease of salary increase rate by 50 basis points	(2)	0	(1)	(5)	n.a.	(1)
Increase of pension increase rate by 25 basis points	6	0	6	5	n.a.	5
Decrease of pension increase rate by 25 basis points	(6)	0	(2)	(5)	n.a.	(2)
Life expectancy increase by 1 year	299	58	6	305	n.a.	5
Life expectancy decrease by 1 year	(298)	(60)	(6)	(296)	n.a.	(5)

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 obligations.

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 contributions 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 agreed to restructure the collectively agreed risk benefits (death in the active phase and/or disability) in the company pension scheme for employees covered by collective agreements in Germany. Under the existing structure, the pension credit accrued through the capital account plan is paid out in the case of a risk event. The revised rules will abolish this in favor of paying out a sum equivalent to an annual target salary of the employee. This provides a better outcome than the existing structure in particular for employees with a shorter length of service with the company. Grandfather clauses have been included for employees who have worked for the company for longer periods and part-time employees. These changes will take effect in October 2021. As a result of the change from an annual (pro rata) contribution to payment of a lump sum, the employer will in future grant the risk benefit irrespective of the employee's length of service with the company. Future risk benefit payments will thus directly be recognized as expenses in the payout year. Provisions recognized according to the current rules under provisions for pensions and other employee benefits for entitlements after the restructuring takes effect were measured under the new rules using the discount rate at the transition date and reversed through profit or loss in the fourth quarter of 2020. This discount rate was also used to measure the pension expense from the remaining provisions for pensions and other employee benefits for the remainder of the financial year.

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. Most of the plan members of these commitments are former employees with vested rights and retirees for whom the amount of benefits has already been determined. So the VAP overall pension scheme continues to apply to former employees who were already retired or who had left with vested claims in 1997.

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. In 2020, further subsidiaries of Deutsche Telekom AG in Germany concluded CTAs.

The main pension plans in the **United States** comprise medical plans, life insurance (for pensioners and active employees) and pension commitments which were included in Deutsche Telekom's consolidated financial statements for the first time upon the acquisition of Sprint as of April 1, 2020.

The pension commitments in the United States mainly relate to two defined contribution 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 plan member's average 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 group of active employees who are near retirement, who can also access benefits from these plans. The commitments have been almost entirely frozen and replaced by contribution plans (401(k) plans) for future vested rights.

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) as well as other coverage for a small group of employees who are still active.

In addition, the Company grants defined benefit plans for individuals abroad. The majority of these benefits comprise benefits prescribed by law in the respective countries or also benefits under the FAP (Financial Accumulation Plan – a capital account plan). Almost all of these individual commitments have likewise been frozen.



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 Dependants' 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 (2020: 1.00 %, 2021: 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 in the respective reporting year

millions of €		
	2020	2019
Plan assets at fair value as of January 1	6,489	6,099
Changes attributable to business combinations/transfers of operation/acquisitions and disposals	1,108	0
Interest income on plan assets (calculated using the discount rate)	98	99
Amount by which the actual return exceeds (falls short of) the interest income on plan assets (remeasurement)	(702)	62
Contributions by employer	61	449
Contributions by plan participants	4	4
Benefits actually paid from plan assets	(217)	(241)
Settlements	0	0
Administration costs	0	0
Tax payments	0	0
Exchange rate fluctuations for plans in foreign currency	(143)	18
Plan assets at fair value as of December 31	6,698	6,489

# Breakdown of plan assets at fair value by investment category

millions of €						
	Dec. 31, 2020	Of which: price in an active market	Of which: price without an active market	Dec. 31, 2019	Of which: price in an active market	Of which: price without an active market
Equity securities	4,264	4,264	0	4,564	4,564	0
Of which: shares in BT	1,762	1,762	0	2,704	2,704	0
Debt securities	1,853	1,853	0	1,113	1,113	0
Real estate	102	38	64	64	64	0
Derivatives	0	0	0	0	0	0
Investment funds	14	14	0	11	11	0
Asset-backed securities	0	0	0	0	0	0
Structured debt instruments	0	0	0	350	350	0
Cash and cash equivalents	43	43	0	275	275	0
Other	422	378	45	112	70	42
Plan assets at fair value	6,698	6,590	109	6,489	6,447	42





The investment policy and risk management is 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 future 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 4,573 thousand (December 31, 2019: EUR 3,706 thousand) and bonds amounting to EUR 7,942 thousand (December 31, 2019: EUR 6,688 thousand) issued by Deutsche Telekom AG and its subsidiaries.

## Development of the effect of the asset ceiling

millions of €		
	2020	2019
Effect of asset ceiling as of January 1	9	0
Interest expense on asset ceiling (recognized in the income statement)	0	0
Changes in asset ceiling ((gains) losses recognized in equity)	(7)	9
Currency gain (loss)	0	0
Effect of asset ceiling as of December 31	2	9

#### Breakdown of defined benefit costs in the income statement

millions of €				
	Disclosure in income statement	2020	2019	2018
Current service cost	Personnel costs	256	250	257
Past service cost (due to plan amendments/curtailments)	Personnel costs	(223)	(8)	(42)
Settlements	Personnel costs	8	3	3
Service cost		41	245	217
Interest cost	Other financial income (expense)	183	186	184
Interest income on plan assets (calculated using the discount rate)	Other financial income (expense)	(98)	(99)	(88)
Interest expense on the effect of the asset ceiling	Other financial income (expense)	0	0	0
Net interest expense (income) on net defined benefit liability (asset)		86	87	96
Defined benefit cost		126	332	313
Administration costs actually incurred (paid from plan assets)	Personnel costs	0	0	0
Total amounts recognized in profit or loss		126	332	313

# Amounts recognized in the consolidated statement of comprehensive income

millions of €			
	2020	2019	2018
Remeasurement ((gain) loss recognized in other comprehensive income in the inancial year)	1,358	603	(127)
Of which: remeasurement due to a change in defined benefit obligations	663	656	51
Of which: remeasurement due to a change in plan assets	702	(62)	(179)
Of which: remeasurement due to changes in the effect of asset ceiling (according to IAS 19.64)	(7)	9	0





#### Total benefit payments expected

millions of €					
	2021	2022	2023	2024	2025
Benefits paid from pension provisions	335	513	556	614	593
Benefits paid from plan assets	118	94	98	101	102
Total benefits expected	453	607	654	715	695

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 2021, 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 82 million in 2021.

## Defined contribution plans

The employer's contribution paid to the statutory pension scheme (Deutsche Rentenversicherung) in Germany in the 2020 financial year totaled EUR 0.4 billion (2019: EUR 0.4 billion; 2018: EUR 0.4 billion). Group-wide, EUR 164 million (2019: EUR 145 million, 2018: EUR 120 million) from current contributions for additional defined contribution plans was recognized in the consolidated income statement in 2020.

## Civil-servant retirement arrangements at Deutsche Telekom

An expense of EUR 374 million was recognized in the 2020 financial year (2019: EUR 405 million; 2018: EUR 441 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 leave of absence. The present value of future payment obligations was EUR 1.8 billion as of the reporting date (December 31, 2019: EUR 2.1 billion, December 31, 2018: EUR 2.5 billion) and is shown under other financial obligations.

For further information, please refer to Note 39 "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
At December 31, 2018	255	3,010	1,564	289	456	862	6,435
Of which: current	168	1,662	35	266	456	557	3,144
Transfer resulting from change in accounting standards	0	0	0	0	0	(184)	(184)
Changes in the composition of the Group	0	28	17	0	0	33	77
Currency translation adjustments	0	10	10	1	3	1	26
Addition	29	2,098	191	75	437	262	3,092
Use	(122)	(1,763)	(86)	(26)	(414)	(200)	(2,611)
Reversal	(3)	(70)	(77)	(57)	(16)	(98)	(321)
Interest effect	0	142	88	1	0	(1)	230
Other changes	1	(94)	0	0	0	12	(81)
At December 31, 2019	160	3,361	1,707	284	466	685	6,663
Of which: current	159	1,694	31	261	466	471	3,082
Transfer resulting from change in accounting standards	0	0	0	0	0	0	0
Changes in the composition of the Group	81	490	1,016	234	67	20	1,907
Currency translation adjustments	(21)	(99)	(170)	(24)	(24)	(9)	(348)
Addition	251	2,625	288	119	605	294	4,183
Use	(47)	(1,930)	(67)	(231)	(507)	(192)	(2,974)
Reversal	(122)	(307)	(59)	(61)	(50)	(92)	(690)
Interest effect	0	397	100	(3)	0	1	494
Other changes	0	(155)	(35)	(2)	0	(9)	(202)
At December 31, 2020	302	4,382	2,778	317	557	697	9,033
Of which: current	302	1,992	46	288	557	454	3,638





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 2020, the discount rates ranged from 0.00 % to 1.21 % (2019: from 0.00 % to 2.41 %) in the euro currency area and from 0.78 % to 3.61 % (2019: from 2.60 % to 4.35 %) 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 123.2 million (December 31, 2019: EUR 109.0 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 126.2 million (December 31, 2019: EUR 111.7 million).

Provisions for termination benefits and other personnel provisions include provisions for staff restructuring. These provisions developed as follows in the 2020 financial year:

millions of €							
	Jan. 1, 2020	Changes in the composition of the Group	Addition	Use	Reversal	Other changes	Dec. 31, 2020
Severance and voluntary redundancy models	160	81	251	(47)	(122)	(21)	302
Phased retirement	733	0	677	(427)	0	(117)	866
	893	81	928	(474)	(122)	(138)	1,168
Of which: current	372						553

The carrying amount of current and non-current other provisions increased by EUR 2.4 billion compared with December 31, 2019 to EUR 9.0 billion. EUR 1.9 billion of this related to the business combination of T-Mobile US and Sprint.

Under other provisions for personnel costs, the provisions recognized for the Civil Service Health Insurance Fund (Postbeamtenkrankenkasse – PBeaKK) increased by EUR 0.5 billion, which is attributable to the subsequent measurement of the present value determined using actuarial principles (interest effect) and other additions. Other provisions for personnel costs also include provisions for deferred compensation and allowances, as well as for anniversary gifts.

Provisions for restoration obligations include the estimated costs for dismantling and removing an asset, and restoring the site on which it is located. The estimated costs are included in the costs of the relevant asset. The provisions for litigation risks primarily relate to possible settlements attributable to pending lawsuits. Provisions for sales and procurement support are recognized for dealer commissions, market development funds (advertising subsidies), and refunds. Miscellaneous other provisions 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 37 "Contingencies."

## 17 Other liabilities

millions of €				
	Dec. 31, 2020	Of which: current	Dec. 31, 2019	Of which: current
Early retirement	1,145	411	1,097	392
Deferred revenue	105	51	153	110
Liabilities from other taxes	1,702	1,702	1,197	1,197
Other deferred revenue	386	240	316	142
Liabilities from severance payments	102	102	99	98
Liabilities – publicly funded projects	1,445	183	1,198	340
Miscellaneous other liabilities	746	524	762	571
	5,631	3,213	4,822	2,850

The carrying amount of current and non-current other liabilities increased by EUR 0.8 billion to EUR 5.6 billion. The inclusion of Sprint resulted in an increase of EUR 0.7 billion. Liabilities from early retirement arrangements for civil servants exist visà-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. In addition, other liabilities increased by EUR 0.2 billion due to existing build-out obligations in connection with grants receivable 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 decreased year-on-year from EUR 2.1 billion to EUR 2.0 billion. These mainly comprise deferred revenues. The inclusion of Sprint resulted in an increase in the carrying amount of EUR 0.3 billion. Revenue of EUR 1,343 million (2019: EUR 1,277 million) from contract liabilities that were still outstanding as of December 31, 2019 was realized in the reporting year. Of the total of contract liabilities, EUR 1,625 million (December 31, 2019: EUR 1,608 million) is due within one year.

# 19 Shareholders' equity

#### Issued capital

As of December 31, 2020, the share capital of Deutsche Telekom totaled EUR 12,189 million. The share capital is divided into 4,761,458,596 no par value registered shares.

	2020		2019	
	thousands	%	thousands	%
Federal Republic of Germany – Berlin, Germany	689,601	14.5	689,601	14.5
KfW Bankengruppe – Frankfurt/Main, Germany	829,179	17.4	829,179	17.4
Free float	3,242,679	68.1	3,242,679	68.1
Of which: BlackRock, Inc. – Wilmington, DE, United States <sup>a</sup>	234,194		234,194	
	4,761,459	100.0	4,761,459	100.0

<sup>&</sup>lt;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 was thus 4.92 % of the voting rights on September 15, 2017.

Treasury shares. The amount of issued capital assigned to treasury shares was approximately EUR 46 million at December 31, 2020. This equates to 0.4 % of share capital. 18,002,303 treasury shares were held at December 31, 2020. The shareholders' meeting resolved on May 25, 2016 to authorize the Board of Management to purchase shares in the Company by May 24, 2021, with the amount of share capital accounted for by these shares totaling up to EUR 1,179,302,878.72, 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 May 25, 2016 under item 6 on the agenda. The shares may also be used for purposes involving an exclusion of subscription rights. They may also be sold on the stock market or by way of an offer to all shareholders, or withdrawn. The shares may also 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 compensation of the Board of Management, on the basis of a decision by the Supervisory Board to this effect.

Under the resolution of the shareholders' meeting on May 25, 2016, the Board of Management is also authorized to acquire the shares through the use of equity derivatives.

On the basis of the authorization by the shareholders' meeting on May 25, 2016 described above and corresponding authorizations by the shareholders' meeting on May 12, 2011 and May 24, 2012, 110 thousand shares were acquired in June 2011, 206 thousand shares in September 2011, and 268 thousand shares in January 2013. The total volumes amounted to EUR 2,762 thousand in the 2011 financial year, and EUR 2,394 thousand in the 2013 financial year (excluding transaction costs). This increased the number of treasury shares by 316 thousand and 268 thousand, respectively. Further, 90 thousand shares and 860 thousand shares were acquired in September and October 2015, respectively, for an aggregate amount of EUR 14,787 thousand (excluding transaction costs); these acquisitions increased the number of treasury shares by 950 thousand.

No treasury shares were acquired in the reporting period.



As part of the Share Matching Plan, a total of 2 thousand treasury shares were transferred free of charge to the custody accounts of eligible participants in 2012 and 2013, respectively. A further 90 thousand treasury shares were transferred free of charge in the 2014 financial year. An additional 140 thousand treasury shares were transferred in 2015. In the 2016 financial year, 232 thousand treasury shares were transferred, 300 thousand treasury shares were transferred in the 2017 financial year, and 312 thousand in the 2018 financial year. In the 2019 financial year, 448 thousand treasury shares were transferred to the custody accounts of employees of Deutsche Telekom AG are free of charge. 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.

In all months of the reporting year with the exception of March and August, treasury shares (523 thousand in total) were reallocated and transferred to the custody accounts of eligible participants of the Share Matching Plan. As of December 31, 2020, disposals of treasury shares resulting from the transfers in the reporting period accounted for 0.01%, or EUR 1,338 thousand, of share capital. Gains on disposal arising from transfers of treasury shares amounted to EUR 7,426 thousand. Transfers of treasury shares increased retained earnings by EUR 36 thousand and capital reserves by EUR 6,052 thousand. In the reporting year, 266 thousand treasury shares with a fair value of EUR 3,885 thousand were billed to other Group companies.

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 options 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. The previously deposited shares are accounted for in the same way as treasury shares in accordance with § 272 (1a) HGB. On the basis of authorization by the shareholders' meeting on May 25, 2016, the treasury shares acquired free of charge may be used for the same purposes as the treasury shares acquired for a consideration. In the 2019 financial year, 61 thousand previously deposited shares were reallocated for issue to eligible participants of the Share Matching Plan. In the reporting year, 558 thousand shares were reallocated.

**Voting rights.** Each share entitles the holder to one vote. These voting rights are restricted, however, in relation to treasury shares (at December 31, 2020: around 18 million in total).

**Authorized capital and contingent capital.** Authorized capital and contingent capital comprised the following components as of December 31, 2020:

	Amount millions of €	No par value shares thousands	Purpose
2017 Authorized capital	3,600	1,406,250	Capital increase against cash contribution/contribution in kind until May 30, 2022
2018 Contingent capital	1,200	468,750	Servicing convertible bonds and/or bonds with warrants issued on or before May 16, 2023

## Transactions with owners

millions of €						
		2020			2019	
	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
Changes in the composition of the Group	0	17,329	17,329	0	239	239
Acquisition of Sprint	0	17,331	17,331	0	0	0
Acquisition of Tele2 Netherlands	0	0	0	0	239	239
Other effects	0	(2)	(2)	0	0	0
Transactions with owners	7,299	5,967	13,266	73	340	413
Acquisition of Sprint	7,474	5,915	13,389	0	0	0
Acquisition of Tele2 Netherlands	0	0	0	293	226	519
Magyar Telekom share buy-back	68	(83)	(15)	0	0	0
OTE share buy-back	(40)	(103)	(143)	(29)	(81)	(110)
Hrvatski Telekom share buy-back	5	(17)	(12)	0	0	0
Capital restructuring, Romania	0	0	0	(51)	51	0
Other effects	(208)	255	47	(140)	144	4





The amounts recognized in shareholders' equity as transactions with owners and as changes in the composition of the Group mainly relate to the business combination of T-Mobile US with Sprint, consummated on April 1, 2020.

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

# 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 0.4 billion (December 31, 2019: EUR 0.4 billion), as well as offsetting currency translation effects of EUR 3.2 billion (December 31, 2019: EUR 0.1 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

## 20 Net revenue

Net revenue breaks down into the following revenue categories:

millions of €			
	2020	2019 <sup>a, b</sup>	2018 <sup>a, b</sup>
Revenue from the rendering of services	79,807	65,583	61,653
Germany	20,013	19,816	20,075
United States	45,653	31,313	27,755
Europe	9,428	9,613	9,467
Systems Solutions	3,091	3,282	3,330
Group Development	1,545	1,487	967
Group Headquarters & Group Services	77	71	59
Revenue from the sale of goods and merchandise <sup>c</sup>	16,054	12,907	12,442
Germany	2,185	2,298	2,266
United States	11,922	8,569	8,170
Europe	1,484	1,553	1,588
Systems Solutions	74	93	96
Group Development	389	394	322
Group Headquarters & Group Services	0	0	0
Revenue from the use of entity assets by others	5,138	2,041	1,561
Germany	815	829	492
United States	3,631	536	596
Europe	227	229	51
Systems Solutions	78	47	9
Group Development	269	276	290
Group Headquarters & Group Services	118	124	123
Net revenue	100,999	80,531	75,656

<sup>&</sup>lt;sup>a</sup> Prior-year figures were adjusted retrospectively on account of a change in the allocation between revenue categories. This change relates to revenue from the use of entity assets by others of EUR 290 million in 2018 in the Group Development operating segment that had been reported under revenue from the rendering of services in the 2018 Annual Report.

Net revenue for the reporting year was EUR 101.0 billion, up EUR 20.5 billion on the prior-year level. The United States operating segment in particular contributed to the positive revenue trend, mainly as a result of the business combination with Sprint, consummated on April 1, 2020.

For information on changes in net revenue, please refer to the section "<u>Development of business in the Group</u>" in the combined management report.

The total transaction price attributable to performance obligations that have not been fulfilled or, in some cases, not yet fulfilled at the end of the reporting year (hereinafter: outstanding transaction price) amounts to EUR 21,821 million (2019: EUR 19,059 million).

b The breakdown of revenue categories for the 2019 financial year was adjusted retrospectively in connection with the realignment of the B2B telecommunications business.

c Revenue from the sale of goods and merchandise includes interest income of EUR 278 million in the reporting year, calculated using the effective interest method (2019: EUR 345 million; 2018: EUR 305 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 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 the 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

Satellic 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 operation phase that follows will have a duration of twelve years, with the additional option for Viapass to extend the term three times by one year. Satellic has no entitlement to the toll revenue collected but will receive 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 79 million in the reporting year (2019: EUR 66 million, 2018: EUR 67 million).

# 21 Other operating income

millions of €			
	2020	2019	2018
Income from the reversal of impairment losses on non-current assets	1,661	7	8
Income from the disposal of non-current assets	129	101	291
Income from reimbursements	140	144	164
Income from insurance compensation	73	122	335
Income from ancillary services	19	25	29
Miscellaneous other operating income	858	722	663
Of which: income from divestitures and from the sale of stakes accounted for using the equity method	10	145	0
	2,879	1,121	1,491

Income from the reversal of impairment losses on non-current assets of EUR 1.6 billion resulted from the partial reversal of impairment losses on spectrum licenses at T-Mobile US, which increased their carrying amount. This item also included income of EUR 50 million from reversals of impairment losses in connection with the sale of the Romanian fixed-network business. Miscellaneous other operating income includes a structuring fee from SoftBank of EUR 0.3 billion, which T-Mobile US received in return for support in the immediate sale of T-Mobile US shares by SoftBank. The prior-year period, 2019, included income from the divestitures of shares accounted for using the equity method as a result of the transfer on August 14, 2019 of the 11.34 % stake in Ströer SE & Co. KGaA to Deutsche Telekom Trust e.V. as plan assets. In addition, miscellaneous other operating income includes a large number of individual items accounting for marginal amounts.

For further information on the reversals of impairment losses, please refer to Note 6 "Intangible assets."

# 22 Changes in inventories

Changes in inventories comprise both volume- and value-based increases and decreases in inventories of finished goods and merchandise, 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 2.8 billion in the reporting year (2019: EUR 2.4 billion, 2018: EUR 2.4 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 €			
	2020	2019	2018
Expenses for raw materials and supplies	1,954	1,679	1,711
Expenses for merchandise	19,498	15,532	15,031
Expenses for services purchased	23,222	19,746	21,418
	44,674	36,956	38,160

# 25 Average number of employees and personnel costs

		2020	2019	2018
Group (total)		223,539	212,846	216,369
Germany		91,512	96,018	100,227
International		132,027	116,827	116,142
Non-civil servants		212,148	200,174	202,010
Civil servants (domestic, active service relationship)		11,391	12,672	14,359
Trainees and students on cooperative degree courses		4,905	6,136	5,713
Personnel costs	millions of €	18,853	16,723	16,436
Of which: wages and salaries	millions of €	15,929	13,655	13,507
Of which: social security contributions and pension benefit costs	millions of €	2,924	3,068	2,929

The average headcount increased by 5.0 % compared with the prior year. It decreased in Germany by 4.7 % due in particular to efficiency enhancement measures and the take-up of socially responsible instruments in connection with staff restructuring in the Germany operating segment and the domestic parts of the Group Headquarters & Group Services segment and in the Systems Solutions operating segment. By contrast, the average headcount outside Germany increased by 13.0 %, driven mainly by the integration of Sprint employees following the business combination of T-Mobile US and Sprint in the United States. Furthermore, the international share increased in most segments — with the exception of the Europe operating segment, in which the average international headcount fell by 7.7 %, and the Group Development operating segment, with a slight decline of 2.3 % in the Netherlands.

Personnel costs increased by 12.7 % year-on-year, mainly due to the business combination of T-Mobile US and Sprint in the United States operating segment, with the associated increases in headcount and the related expenses in connection with the integration. In all other segments, lower headcounts resulted in reduced personnel costs. The agreed salary increases from the collective agreements concluded in 2020 had an offsetting effect. All segments with the exception of Group Headquarters & Group Services and Group Development also recorded (in some cases substantial) increases in expenses for restructuring measures.

# 26 Other operating expenses

millions of €			
	2020	2019	2018
Impairment losses on financial assets	862	452	394
Gains (losses) from the write-off of financial assets measured at amortized cost	188	42	120
Other	3,425	2,807	2,620
Legal and audit fees	510	328	338
Losses from asset disposals	497	213	165
Income (losses) from the measurement of factoring receivables	6	129	126
Other taxes	452	427	476
Cash and guarantee transaction costs	491	355	339
Insurance expenses	117	98	93
Miscellaneous other operating expenses	1,354	1,258	1,083
	4,476	3,301	3,134

Miscellaneous other operating expenses comprise a large number of low-value individual items, including other administrative expenses and fees totaling EUR 162 million (2019: EUR 176 million, 2018: EUR 181 million).





#### 27 Depreciation, amortization and impairment losses

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

millions of €		_	_
	2020	2019	2018
Amortization and impairment of intangible assets	6,997	4,806	5,021
Of which: impairment losses	525	74	685
Of which: impairment losses on mobile licenses	152	0	19
Of which: amortization of mobile licenses	1,140	1,080	1,049
Depreciation and impairment of property, plant and equipment	13,706	9,208	8,814
Of which: impairment losses	210	319	38
Depreciation of right-of-use assets <sup>a</sup>	5,126	3,649	n.a.
Of which: impairment losses	63	0	n.a.
	25,829	17,663	13,836

<sup>&</sup>lt;sup>a</sup> The IFRS 16 "Leases" accounting standard has been applied since January 1, 2019. Prior-year comparatives were not adjusted.

Impairment losses break down as follows:

millions of €			
	2020	2019	2018
Intangible assets	525	74	685
Of which: goodwill from the year-end impairment test	26	0	639
Of which: in connection with the ad hoc impairment test in the Systems Solutions cash-generating unit <sup>a</sup>	343	n.a.	n.a.
Of which: in connection with the ad hoc impairment test in the Romania cash-generating unit	126	24	n.a.
Property, plant and equipment	210	319	38
Of which: in connection with the ad hoc impairment test in the Systems Solutions cash-generating unit	127	0	0
Of which: in connection with the ad hoc impairment test in the Romania cash-generating unit	34	296	0
Right-of-use assets <sup>b</sup>	63	0	n.a.
	798	393	722

a Of the impairment losses, EUR 44 million relate 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 increased by EUR 8.2 billion year-on-year to EUR 25.8 billion. Depreciation of property, plant and equipment increased by EUR 4.6 billion and amortization of intangible assets by EUR 1.7 billion. Depreciation of right-of-use assets increased by EUR 1.4 billion. These increases are all largely due to the completed business combination with Sprint. In the United States operating segment, a 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 0.1 billion. Impairment losses increased year-on-year by EUR 0.4 billion to EUR 0.8 billion. Impairment losses on goodwill resulting from year-end impairment tests relate to the Montenegro cash-generating unit. EUR 0.5 billion of these impairment losses resulted from an ad hoc impairment test of assets assigned to the Systems Solutions cash-generating unit and relate to intangible assets and property, plant and equipment in the Systems Solutions operating segment and in the Group Headquarters & Group Services segment. EUR 0.2 billion of this is attributable to another ad hoc impairment test of the assets assigned to the Romania cash-generating unit. This also relates to intangible assets and property, plant and equipment. In 2019, these included impairment losses of EUR 0.3 billion in particular on property, plant and equipment in the Romania cash-generating unit on account of the ad hoc impairment test conducted at year-end.

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

b The IFRS 16 "Leases" accounting standard has been applied since January 1, 2019. Prior-year comparatives were not adjusted.





#### 28 Finance costs

millions of €			
	2020	2019	2018
Interest income	414	348	277
Interest expense	(4,638)	(2,712)	(2,094)
	(4,224)	(2,364)	(1,817)
Of which: from leases	(996)	(870)	n.a.
Of which: from finance leases	n.a.	n.a.	(131)
Of which: from financial instruments relating to measurement categories in accordance with IFRS 9			
Debt instruments measured at amortized cost	15	23	27
Debt instruments measured at fair value through other comprehensive income	0	0	0
Debt instruments measured at fair value through profit or loss	16	14	10
Financial liabilities measured at amortized cost <sup>a</sup>	(3,235)	(1,525)	(1,707)

a 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 (2020: interest income of EUR 377 million and interest expense of EUR 101 million; 2019: interest income of EUR 223 million and interest expense of EUR 54 million; 2018: interest income of EUR 223 million and interest expense of EUR 110 million).

The increase in finance costs is mainly due to the financial liabilities recognized and the restructuring begun in connection with the acquisition of Sprint, and the related increase in financing, including the handling charges incurred for a briefly utilized bridge loan facility. In connection with the premature termination of forward-payer swaps by T-Mobile US at the start of April 2020 and the associated losses recorded directly in equity, reclassifications to profit or loss of EUR 0.1 billion were made in 2020. In 2019, finance costs were mainly impacted by an effect of EUR 0.9 billion from the subsequent measurement of recognized lease liabilities since the first-time application of IFRS 16.

EUR 334 million (2019: EUR 343 million; 2018: EUR 290 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 3.2 % at the start of the year and 3.6 % at the end of the year (2019: between 3.5 % and 3.2 %; 2018: between 3.9 % and 3.5 %) applied across the Group.

Interest payments (including capitalized interest) of EUR 7.6 billion (2019: EUR 4.3 billion, 2018: EUR 3.6 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.

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

millions of €			
	2020	2019	2018
Share of profit (loss) of joint ventures	(16)	(7)	(536)
Share of profit (loss) of associates	4	93	6
	(12)	87	(529)

For further information, please refer to Note 10 " $\underline{\text{Investments accounted for using the equity method.}}$ "





#### 30 Other financial income/expense

millions of €			
	2020	2019	2018
Income from investments (without share of profit (loss) of associates and joint ventures accounted for using the equity method)	12	(11)	3
Gains (losses) from financial instruments	628	321	(352)
Interest component from measurement of provisions and liabilities	(531)	(229)	(178)
Gains (losses) from the write-off of other financial assets measured at amortized cost	0	0	25
	109	81	(502)

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 other financial income/expense.

Other financial income/expense was unchanged at EUR 0.1 billion, due on the one hand to an increase in interest expense from the measurement of provisions and liabilities. This increase was attributable in particular to the subsequent measurement using actuarial principles of the present value of the provision recognized for the Civil Service Health Insurance Fund (Postbeamtenkrankenkasse – PBeaKK). On the other hand, the gains from financial instruments increased, in particular as a result of the subsequent measurement of the stock options to buy shares in T-Mobile US received from SoftBank in June 2020. Lower measurement effects from embedded derivatives at T-Mobile US compared with the prior year had an offsetting effect.

EUR 341 million (2019: EUR -14 million, 2018: EUR 57 million) of other financial income/expense related to currency translation effects, including gains/losses from derivatives used as hedges in foreign-currency hedge accounting, and EUR 287 million (2019: EUR 335 million, 2018: EUR -409 million) to gains/losses from other derivatives as well as measurements of equity investments.

For further information on financial instruments, please refer to Note 41 "Financial instruments and risk management."

## 31 Income taxes

## Income taxes in the consolidated income statement

A tax expense of EUR 1.9 billion was recorded in the 2020 financial year. In addition to the shares of the different countries in profit before income taxes with their respective national tax rates, the effective tax rate of 22 % reflects actual and deferred tax benefits of EUR 0.2 billion each from the Europe and United States operating segments, mainly from changes in tax rates, inorganic developments, and taxes from previous years.

In the prior-year period, a tax expense of EUR 2.0 billion had been recorded. A higher effective tax rate in combination with lower profit before income taxes meant that the tax expense remained more or less at this level.

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

millions of €			
	2020	2019	2018
Current taxes	924	883	592
Germany	391	488	217
International	533	395	375
Deferred taxes	1,005	1,110	1,232
Germany	145	314	334
International	860	796	898
	1,929	1,993	1,824

Deutsche Telekom's combined income tax rate for 2020 amounts to 31.4 % (2019: 31.4 %, 2018: 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 % (2019: 445 %, 2018: 445 %).



Reconciliation of the effective tax rate. Income taxes of EUR-1,929 million (as expense) in the reporting year (2019: EUR -1,993 million (as expense), 2018: EUR -1,824 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 €			
	2020	2019	2018
Profit (loss) before income taxes	8,677	7,260	5,153
Expected income tax expense (benefit) (income tax rate applicable to Deutsche Telekom AG: 2020: 31.4 %, 2019: 31.4 %, 2018: 31.4 %)	2,724	2,280	1,618
Adjustments to expected tax expense (benefit)			
Effect of changes in statutory tax rates	(139)	(41)	39
Tax effects from prior years	36	(18)	158
Tax effects from other income taxes	297	258	114
Non-taxable income	(32)	(26)	(16)
Tax effects from equity investments	8	(46)	(112)
Non-deductible expenses	192	140	170
Permanent differences	(457)	(23)	(57)
Goodwill impairment losses	(6)	(14)	186
Tax effects from loss carryforwards	1	43	22
Tax effects from additions to and reductions of local taxes	62	71	189
Adjustment of taxes to different foreign tax rates	(755)	(633)	(489)
Other tax effects	(2)	2	2
Income tax expense (benefit) according to the consolidated income statement	1,929	1,993	1,824
Effective income tax rate	22	27	35

## Current income taxes in the consolidated income statement

The following table provides a breakdown of current income taxes:

millions of €			
	2020	2019	2018
Current income taxes	924	883	592
Of which: current tax expense	729	803	571
Of which: prior-period tax expense	195	80	21

# Deferred taxes in the consolidated income statement

Deferred taxes developed as follows:

millions of €			
	2020	2019	2018
Deferred tax expense (benefit)	1,005	1,110	1,232
Of which: from temporary differences	2,819	446	1,217
Of which: from loss carryforwards	(1,891)	654	49
Of which: from tax credits	77	10	(34)





# Income taxes in the consolidated statement of financial position

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

millions of €		
	Dec. 31, 2020	Dec. 31, 2019
Recoverable taxes	349	481
Tax liabilities	(690)	(463)
Current taxes recognized in other comprehensive income:		
Hedging instruments	(252)	(252)

# Deferred taxes in the consolidated statement of financial position

millions of €		
	Dec. 31, 2020	Dec. 31, 2019
Deferred tax assets	7,972	2,704
Deferred tax liabilities	(17,260)	(8,954)
	(9,288)	(6,249)
Of which: recognized in other comprehensive income:		
Gains (losses) from the remeasurement of defined benefit plans	1,582	1,440
Revaluation surplus	241	167
Hedging instruments	581	297
Recognized in other comprehensive income before non-controlling interests	2,404	1,904
Non-controlling interests	(286)	(107)
	2,118	1,797

## Development of deferred taxes

millions of €			
	Dec. 31, 2020	Dec. 31, 2019	
Deferred taxes recognized in the statement of financial position	(9,288)	(6,249)	
Difference to prior year	(3,039)	(959)	
Of which: Recognized in income statement	(1,005)	(1,110)	
Recognized in other comprehensive income	507	330	
Recognized in capital reserves	74	0	
Acquisitions (disposals) (including assets and disposal groups held for sale)	(3,211)	(75)	
Currency translation adjustments	596	(104)	

# Development of deferred taxes on loss carryforwards

millions of €		
	Dec. 31, 2020	Dec. 31, 2019
Deferred taxes on loss carryforwards before allowances	4,108	1,291
Difference to prior year	2,817	(626)
Of which: Recognition (derecognition)	1,869	(660)
Acquisitions (disposals) (including assets and disposal groups held for sale)	1,071	0
Currency translation adjustments	(123)	34





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

millions of €				
	Dec. 31, 2	020	Dec. 31, 2	019
	Deferred tax assets	Deferred tax liabilities	Deferred tax assets	Deferred tax liabilities
Current assets	1,726	(1,116)	1,623	(1,142)
Trade receivables	791	(116)	881	(154)
Inventories	120	0	75	0
Other assets	808	(287)	661	(271)
Contract assets	7	(713)	6	(717)
Non-current assets	3,636	(29,780)	2,911	(17,846)
Intangible assets	675	(18,369)	567	(7,956)
Property, plant and equipment	1,379	(1,899)	811	(4,445)
Other financial assets	1,580	(9,157)	1,532	(5,096)
Capitalized contract costs	2	(355)	1	(349)
Current liabilities	1,974	(733)	1,543	(790)
Financial liabilities	698	(208)	506	(375)
Trade and other payables	60	(16)	58	(13)
Other provisions	346	(91)	274	(82)
Other liabilities	623	(337)	490	(245)
Contract liabilities	247	(81)	215	(75)
Non-current liabilities	13,986	(2,953)	8,978	(2,891)
Financial liabilities	3,301	(1,051)	1,986	(1,252)
Provisions for pensions and other employee benefits	2,159	(1,531)	1,843	(1,392)
Other provisions	992	(231)	783	(212)
Other liabilities	7,397	(111)	4,234	(22)
Contract liabilities	137	(29)	132	(13)
Retained earnings	1	(67)	18	(155)
Tax credits	310	0	270	0
Loss carryforwards	3,404	0	1,010	0
Interest carryforwards	324	0	221	0
Total	25,361	(34,649)	16,574	(22,824)
Of which: non-current	22,956	(33,247)	13,547	(20,948)
Netting	(17,389)	17,389	(13,870)	13,870
Recognition	7,972	(17,260)	2,704	(8,954)

# The loss carryforwards amount to:

millions of €		
	Dec. 31, 2020	Dec. 31, 2019
Loss carryforwards for corporate income tax purposes	14,954	3,968
Expiry within		
1 year	179	9
2 years	18	395
3 years	8	38
4 years	11	10
5 years	176	59
After 5 years	1,538	792
Unlimited carryforward period	13,023	2,665





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

millions of €		
	Dec. 31, 2020	Dec. 31, 2019
Loss carryforwards for corporate income tax purposes	1,757	968
Expiry within		
1 year	7	6
2 years	6	6
3 years	0	8
4 years	6	1
5 years	2	35
After 5 years	950	148
Unlimited carryforward period	786	764
Temporary differences in corporate income tax	595	747

In addition, no deferred taxes are recognized on trade tax loss carryforwards of EUR 85 million (December 31, 2019: EUR 58 million) and on temporary differences for trade tax purposes in the amount of EUR 7 million (December 31, 2019: EUR 0 million). Furthermore, apart from corporate income tax loss carryforwards, no deferred taxes amounting to EUR 431 million (December 31, 2019: EUR 112 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 10 million (December 31, 2019: EUR 0 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 (2019: EUR 6 million, 2018: EUR 31 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.

No deferred tax liabilities were recognized on temporary differences in connection with equity interests in subsidiaries amounting to EUR 817 million (December 31, 2019: EUR 920 million) as it is unlikely that these differences will be recognized in the near future.



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

millions of €		2020		2019			2018		
	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
Items not subsequently reclassified to profit or loss (not recycled) Gains (losses) from the remeasurement									
of defined benefit plans	(1,358)	142	(1,216)	(603)	134	(469)	127	37	164
Gains (losses) from the remeasurement of equity instruments	62	0	62	99	0	99	(619)	(1)	(620)
Share of profit (loss) of investments accounted for using the equity method	0	0	0	0	0	0	0	0	0
	(1,296)	142	(1,154)	(504)	134	(369)	(492)	36	(456)
Items subsequently reclassified to profit or loss (recycled), if certain reasons are given									
Exchange differences on translating foreign operations  Recognition of other									
comprehensive income in income statement	0	0	0	(8)	0	(8)	(1)	0	(1)
Change in other comprehensive income (not recognized in income statement)	(6,578)	0	(6,578)	463	0	463	1,033	0	1,033
Gains (losses) from the remeasurement of debt instruments									
Recognition of other comprehensive income in income statement	491	(26)	465	(47)	0	(47)	(75)	(3)	(78)
Change in other comprehensive income (not recognized in income statement)	(481)	30	(451)	34	(9)	25	84	0	84
Gains (losses) from hedging instruments (IAS 39 until December 2017, designated risk component)									
Recognition of other comprehensive income in income statement	431	(130)	301	(148)	46	(102)	(32)	10	(22)
Change in other comprehensive income (not recognized in									
income statement)	(1,446)	400	(1,046)	(483)	115	(368)	(382)	61	(321)
Gains (losses) from hedging instruments (IFRS 9 from January 2018, hedging costs)									
Recognition of other comprehensive income in income statement	2	(1)	1	2	(1)	1	3	(1)	2
Change in other comprehensive income (not recognized in income statement)	(30)	10	(20)	(9)	3	(6)	56	20	76
Share of profit (loss) of investments accounted for using the equity method Recognition of other comprehensive income in									
income statement	0	0	0	(7)	0	(7)	0	0	0
Change in other comprehensive income (not recognized in income statement)	1	0	1	11	0	11	7	0	7
	(7,610)	283	(7,327)	(192)	154	(38)	693	87	780
Other comprehensive income	(8,906)	425	<b>(8,481)</b> 6,747	(696)	289	<b>(407)</b> 5,268	201	123	<b>323</b> 3,329
Profit (loss)									

# 32 Profit/loss attributable to non-controlling interests

millions of €			
	2020	2019	2018
T-Mobile US	2,287	1,325	915
Hrvatski Telekom	26	49	69
Hellenic Telecommunications Organization (OTE)	189	(27)	119
Magyar Telekom	58	63	65
T-Mobile Netherlands Holding B.V.	39	3	0
Other	(10)	(12)	(5)
	2,589	1,401	1,163



#### 33 Earnings per share

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

		2020	2019	2018
Profit attributable to the owners of the parent (net profit (loss))	millions of €	4,158	3,867	2,166
Adjustment	millions of €	0	0	0
Adjusted net profit (loss) (basic/diluted)	millions of €	4,158	3,867	2,166
Number of ordinary shares issued	millions	4,761	4,761	4,761
Treasury shares	millions	(18)	(19)	(19)
Adjusted weighted average number of ordinary shares outstanding (basic/diluted)	millions	4,743	4,743	4,742
Earnings per share (basic/diluted)	€	0.88	0.82	0.46

The calculation of earnings per share (basic/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.

#### 34 Dividend per share

For the 2020 financial year, the Board of Management proposes a dividend of EUR 0.60 for each no par value share carrying dividend rights. On the basis of this payout volume, total dividends in the amount of EUR 2,846 million would be appropriated to the no par value shares carrying dividend rights as of February 16, 2021. 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 0.60 for the 2019 financial year for each no par value share carrying dividend rights was paid out in 2020.

## Other disclosures

## 35 Notes to the consolidated statement of cash flows

#### Net cash from operating activities

Net cash from operating activities increased by EUR 0.7 billion year-on-year to EUR 23.7 billion. This was attributable to the sustained positive performance of the operating segments, in particular in the United States including Sprint. Negative effects on net cash from operating activities related in part to the repayment of a Deutsche Bundespost treasury note (zero-coupon bond) issued by Deutsche Telekom AG in 1990 with a nominal amount of EUR 0.2 billion, which fell due on December 31, 2019 and was repaid on that date by a bank using its own funds. The payment by Deutsche Telekom AG to this bank was made on the following bank working day of January 2, 2020. The interest portion amounted to EUR 1.2 billion. In addition, the repayment of EUR 0.4 billion in the reporting period for another zero-coupon bond also had a negative impact. The interest portion amounted to EUR 0.4 billion. Net cash from operating activities was also negatively impacted in the amount of EUR 2.2 billion in the reporting period as a result of the premature termination of forward-payer swaps for borrowings raised at T-Mobile US. Excluding these effects, higher (net) interest payments, which were up by EUR 2.1 billion, had a negative impact on net cash from operating activities, mainly due to the financial liabilities recognized and the restructuring begun in connection with the acquisition of Sprint and the related increase in financing, including the handling charges incurred for a briefly utilized bridge loan facility. Income tax payments decreased by EUR 0.1 billion compared with the prior year. Factoring agreements of EUR 0.8 billion had a negative impact on net cash from operating activities in the reporting period, mainly as a result of the contractual termination of a revolving factoring agreement in the Germany operating segment. In the prior year, factoring agreements had had negative effects of EUR 0.3 billion.

Deutsche Telekom's working capital measures are focused on improvements in the area of liabilities as well as in the management of receivables and inventories. However, they are not used for active liquidity management. The negative effect on the change in assets carried as working capital is mainly attributable to the acquisition of mobile devices in connection with the terminal equipment lease model JUMP! On Demand and the increased stockpiling of new mobile devices in the United States operating segment. In addition, higher receivables from wholesale partners and higher receivables under the Equipment Installment Plan – primarily as a result of the market launch of higher-priced devices in the fourth quarter of 2020 in the United States – had a negative effect on the change in assets carried as working capital. The negative effect on the change in liabilities carried as working capital mainly resulted from the reduction in liabilities to terminal equipment vendors and other telecommunications companies 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 investing activities

millions of €			
	2020	2019	2018
Cash capex <sup>a</sup>			
Germany	(4,172)	(4,414)	n.a.
United States	(10,394)	(6,369)	(4,661)
Europe	(2,216)	(1,816)	n.a.
Systems Solutions	(255)	(356)	n.a.
Group Development	(699)	(452)	(271)
Group Headquarters & Group Services	(990)	(1,010)	n.a.
Reconciliation	32	60	n.a.
	(18,694)	(14,357)	(12,492)
Payments for publicly funded investments in the broadband build-out <sup>b</sup>	(507)	(401)	n.a.
Proceeds from public funds for investments in the broadband build-out <sup>b</sup>	431	341	n.a.
Net cash flows for collateral deposited and hedging transactions	268	365	(170)
Changes in cash and cash equivalents in connection with the consummated business combination of T-Mobile US and Sprint	(4,767)	0	0
Of which: cash and cash equivalents acquired from Sprint <sup>C</sup>	1,997	0	0
Of which: repayment of Sprint loans pursuant to change-in-control clause	(6,764)	0	0
Cash outflows for the acquisition of shares in Simpel <sup>d</sup>	(255)	0	0
Cash outflows for the acquisition of shares in Tele2 Netherlands <sup>e</sup>	0	(195)	0
Cash outflows for the acquisition of the shares in Layer3 TV <sup>f</sup>	0	0	(258)
Cash outflows for the acquisition of shares in UPC Austria GmbH <sup>9</sup>	0	0	(1,791)
Proceeds from the disposal of property, plant and equipment, and intangible assets	236	176	525
Changes in cash and cash equivalents associated with the sale of Sprint's prepaid business to DISH <sup>h</sup>	1,072	0	0
Changes in cash and cash equivalents in connection with the loss of control of subsidiaries and associates	22	62	(67)
Reverse allocation under contractual trust agreement (CTA) on pension commitments <sup>i</sup>	0	0	225
Payment in relation to settlement reached in Toll Collect arbitration proceedings	0	(200)	(200)
Payment in relation to equity maintenance undertaking for Toll Collect GmbH	0	0	(60)
Other	(456)	(21)	(9)
	(22,649)	(14,230)	(14,297)

<sup>&</sup>lt;sup>a</sup> Retrospective changes arising in connection with the realignment of the B2B telecommunications business have not been applied to the individual segment cash flows for the 2018 financial year in accordance with IFRS 8.29.

<sup>&</sup>lt;sup>b</sup> For further information on the change in estimates made in 2019, please refer to the section "Changes in accounting policies, changes in estimates" in the notes to the consolidated financial statements in the 2019 Annual Report.

c Also includes a payment of EUR 93 million received in relation to a cost allocation from SoftBank in connection with the CPUC.

 $<sup>^{</sup>m d}$  Includes, in addition to the purchase price of EUR 259 million, inflows of cash and cash equivalents in the amount of EUR 4 million.

e Includes, in addition to the purchase price of EUR 199 million, inflows of cash and cash equivalents in the amount of EUR 4 million.

 $<sup>^{\</sup>rm f} \ \ {\sf Includes}, in addition to the purchase price of {\sf EUR}\ 260\ million, inflows\ of\ cash\ and\ cash\ equivalents\ in\ the\ amount\ of\ {\sf EUR}\ 2\ million.$ 

<sup>9</sup> Includes, in addition to the purchase price of EUR 1,792 million, inflows of cash and cash equivalents in the amount of EUR 1 million.

h Of the overall purchase price payment of EUR 1,208 million, EUR 136 million was recognized under net cash used in/from financing activities. This related to receivables from customers in connection with the Equipment Installment Plan in Sprint's sold prepaid business.

i Relates primarily to outflows of cash and cash equivalents in connection with the transfer of the stake in BT as plan assets to Deutsche Telekom Trust e.V. in March 2018.

Cash capex increased by EUR 4.3 billion to EUR 18.7 billion. In the 2020 financial year, mobile spectrum licenses were acquired for total cash of EUR 1.7 billion. EUR 1.1 billion of this related to the United States operating segment and was primarily attributable to the purchase of FCC licenses in an auction that ended in March 2020. Another EUR 0.4 billion resulted from spectrum acquisition in the Europe operating segment and EUR 0.2 billion in the Group Development operating segment. The prior-year figure had included EUR 1.2 billion for the acquisition of mobile spectrum licenses, predominantly for the United States operating segment. In the Germany operating segment, cash outflows in connection with the acquisition of 5G mobile spectrum licenses were shown in cash capex in the 2019 financial year; since 2020, they have been presented in net cash from/used in financing activities on account of the payment plan agreed with the Federal Republic of Germany. Adjusted for investments in mobile spectrum licenses, cash capex was up by EUR 3.9 billion, largely on account of the inclusion of Sprint and the ongoing 5G network build-out in the United States. Cash capex (before spectrum investment) in the Germany operating segment decreased slightly. Capital expenditure in the Germany operating segment totaled around EUR 4.2 billion in 2020, in particular for the build-out of the 5G and fiber-optic networks. In the Europe operating segment, cash capex (before spectrum investment) stood at EUR 1.8 billion, which was slightly up on the prior year. Here, we also continue to invest in the provision of broadband and fiber-optic technology and in 5G as part of our integrated network strategy.

The contractually promised government grants from publicly funded projects for the broadband build-out in Germany were recognized in full as receivables as of the start of the second half of 2019. 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 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 7.6 billion (2019: EUR 4.3 billion; 2018: EUR 3.6 billion) were made in the reporting period. Capitalized interest of EUR 0.3 billion (2019: EUR 0.3 billion, 2018: EUR 0.3 billion) was reported within cash capex in net cash used in investing activities, together with the associated assets.

#### Net cash used in financing activities

millions of €			
	2020	2019	2018
Repayment of bonds	(8,958)	(2,718)	(4,604)
Dividend payments (including to other shareholders of subsidiaries)	(3,067)	(3,561)	(3,254)
Repayment of financial liabilities from financed capex and opex	(358)	(699)	(260)
Repayment of EIB loans	(193)	(660)	(159)
Net cash flows for collateral deposited and hedging transactions	(4)	112	244
Principal portion of repayment of lease liabilities	(5,371)	(3,835)	(1,174)
Repayment of financial liabilities for media broadcasting rights	(375)	(407)	(407)
Cash flows from continuing involvement factoring, net	(77)	(21)	31
Loans taken out with the EIB	425	500	150
Promissory notes, net	(202)	144	201
Issuance of bonds	9,202	5,479	7,824
Commercial paper, net	0	(467)	(623)
Overnight borrowings from banks	0	(626)	565
Repayment of liabilities from 5G spectrum acquired in Germany	(110)	0	0
Issue of senior secured notes in connection with the acquisition of Sprint	20,942	0	0
Raising of secured term loan in connection with the acquisition of Sprint	3,562	0	0
Repayment of secured term loan in connection with the acquisition of Sprint	(3,389)	0	0
Raising of bridge loan facility in connection with the acquisition of Sprint	17,405	0	0
Repayment of bridge loan facility in connection with the acquisition of Sprint	(17,493)	0	0
Repayment of Sprint loans (raised prior to acquisition by T-Mobile US)	(3,572)	0	0
Cash inflows from transactions with non-controlling entities			
T-Mobile US stock options	42	2	3
Toll4Europe capital contributions	11	10	24
Other	0	1	2
	53	13	29
Cash outflows from transactions with non-controlling entities			
T-Mobile US share buy-backs	(391)	(139)	(997)
OTE share buy-back program	(142)	(110)	(94)
Acquisition of T-Mobile US shares	0	0	(164)
Acquisition of OTE shares	0	0	(285)
Other	(32)	(12)	(17)
	(565)	(261)	(1,557)
Other	(293)	(134)	(265)
	7,561	(7,141)	(3,259)





In the 2020 financial year, Deutsche Telekom chose financing options totaling EUR 0.2 billion under which the payments for trade payables from operating and investing activities primarily become due at a later point in time by involving banks in the process (2019: EUR 0.7 billion). These are shown under financial liabilities in the statement of financial position. As soon as the payments have been made, they are disclosed under net cash from/used in financing activities.

In the 2020 financial year, Deutsche Telekom leased assets of EUR 14.3 billion, mainly network equipment, and land and buildings (2019: EUR 5.5 billion). These assets are now 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 from/used in financing activities. The year-on-year increase is mainly attributable to the United States operating segment and relates to the inclusion of Sprint as well as to a modified agreement with American Tower concerning the lease of 20,729 cell towers, which increased the carrying amounts of the right-of-use assets and the lease liabilities by EUR 9.4 billion each.

Consideration for the acquisition of broadcasting rights is paid by Deutsche Telekom depending on the terms of the contract on the date of its conclusion or spread over the term of the contract. Financial liabilities of EUR 0.4 billion were recognized in the 2020 financial year for future consideration for acquired broadcasting rights (2019: EUR 0.3 billion). The payment of the consideration will be recognized in net cash from/used in financing activities.

In the United States operating segment, EUR 2.5 billion was recognized for mobile handsets under property, plant and equipment in the 2020 financial year (2019: EUR 0.9 billion). These relate to the equipment lease model at T-Mobile US, under which customers do not purchase the devices but lease them. The payments are presented under net cash from operating activities. The increase is mainly due to the inclusion of Sprint, whose business model had a strong focus on terminal equipment leases.

The business combination of T-Mobile US and Sprint in the United States operating segment as of April 1, 2020 was executed by means of a share exchange without a cash component (all-stock transaction). Non-current assets and disposal groups held for sale of EUR 1.6 billion and liabilities associated with assets and disposal groups held for sale of EUR 0.5 billion were divested in connection with the sale of Sprint's prepaid business to DISH.

For further information, please refer to the section "Changes in the composition of the Group and other transactions."

The carrying amounts of the financial liabilities associated with net cash from/used in 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, 2020	Of which: payments to be disclosed in net cash from (used in) 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	51,644	51,295	16,754	24,631
Liabilities to banks	6,516	4,393	(1,265)	0
	58,160	55,688	15,489	24,631
Liabilities to non-banks from promissory note bonds	699	699	(200)	0
Liabilities with the right of creditors to priority repayment in the event of default	0	0	(148)	4,832
Other interest-bearing liabilities	4,369	3,264	(477)	9,177
Other non-interest-bearing liabilities	1,476	10	(8)	0
Derivative financial liabilities	1,645	232	(2)	0
	8,189	4,205	(835)	14,009
Financial liabilities	66,349	59,893	14,654	38,640
Lease liabilities	19,835	20,165	(5,371)	6,819
Derivative financial assets	2,333	(306)	(19)	0

millions of €							
	Carryin	g amount chanç	ges not having ar	n effect on cas	h 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, 2020 of the payments to be disclosed in net cash (used in) from financing activities <sup>a</sup>	As of Dec. 31, 2020
Bonds and other securitized liabilities	(6,600)	977	234	411	19,653	87,702	87,702
Liabilities to banks	0	25	32	1,396	1,453	4,581	5,257
	(6,600)	1,002	266	1,807	21,106	92,283	92,959
Liabilities to non-banks from promissory note bonds	(9)	0	0	0	(9)	490	490
Liabilities with the right of creditors to priority repayment in the event of default	(885)	0	(21)	241	4,167	4,019	3,886
Other interest-bearing liabilities	(222)	0	145	(5,852)	3,248	6,035	7,206
Other non-interest-bearing liabilities	1	0	0	0	1	3	1,703
Derivative financial liabilities	0	0	597	0	597	827	864
	(1,115)	0	721	(5,611)	8,004	11,374	14,149
Financial liabilities	(7,715)	1,002	987	(3,804)	29,110	103,657	107,108
Lease liabilities	(2,295)	0	0	14,137	18,661	33,455	32,715
Derivative financial assets	0	0	183	0	183	(142)	4,038

a 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 9.3 billion reported in net cash from/used in financing activities deviate from net cash from/used in financing activities due in particular to the dividend entitlements of Deutsche Telekom AG's shareholders having an effect on cash flows, the changes in non-controlling interests having an effect on cash flows, and the interest paid in connection with financial liabilities reported in cash generated from operations. 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 changes in the carrying amounts of financial liabilities due to changes in the composition of the Group relate, in particular, to the acquisition of Sprint. The other carrying amount changes in financial liabilities not having an effect on cash flows include additions of EUR 0.2 billion for selected financing options under which the payments become due at a later point in time by involving banks in the process, as well as additions of EUR 0.4 billion for the acquisition of broadcasting rights.

In the 2020 financial year, Deutsche Telekom made total interest payments of EUR 7.6 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 from/ used in 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 from/used in financing activities, divided into carrying amount changes having and not having an effect on cash flows, developed as follows in 2019:

millions of €				
	As of Jan. 1, 2019	Of which: payments to be disclosed in net cash from (used in) 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	49,033	49,033	2,289	0
Liabilities to banks	5,710	4,968	(526)	0
	54,743	54,001	1,763	0
Liabilities to non-banks from promissory note bonds	497	497	(156)	0
Liabilities with the right of creditors to priority repayment in the event of default	0	0	0	0
Other interest-bearing liabilities <sup>b</sup>	1,868	1,447	(1,287)	3
Other non-interest-bearing liabilities	1,609	13	(3)	0
Derivative financial liabilities	1,077	727	(30)	0
	5,051	2,684	(1,476)	3
Financial liabilities <sup>b</sup>	59,794	56,685	287	3
Lease liabilities <sup>b</sup>	18,073	18,073	(3,836)	203
Derivative financial assets	870	34	(142)	0

millions of €							
	Carryin	g amount chan	ges not having ar	n effect on cas	h flows		
			Carrying amount changes		Total carrying amount	Carrying amount on Dec. 31, 2019 of the payments to	
	Currency translation	Fair value	according to the effective interest method	Other <sup>c</sup>	changes not having an effect on cash flows	be disclosed in net cash from (used in) financing activities <sup>a</sup>	As of Dec. 31, 2019
Bonds and other securitized liabilities	603	1,006	136	(1,773)	(28)	51,294	51,644
Liabilities to banks	16	52	35	(151)	(48)	4,394	6,516
	619	1,058	171	(1,924)	(76)	55,688	58,160
Liabilities to non-banks from promissory note bonds	8	0	0	350	358	699	699
Liabilities with the right of creditors to priority repayment in the event of default	0	0	0	0	0	0	0
Other interest-bearing liabilities <sup>b</sup>	0	0	39	3,063	3,105	3,265	4,369
Other non-interest-bearing liabilities	0	0	0	0	0	10	1,476
Derivative financial liabilities	0	0	(465)	0	(465)	232	1,645
	8	0	(426)	3,413	2,998	4,206	8,189
Financial liabilities <sup>b</sup>	627	1,058	(255)	1,489	2,922	59,894	66,349
Lease liabilities <sup>b</sup>	237	0	0	5,487	5,927	20,164	19,835
Derivative financial assets	0	0	(198)	0	(198)	(306)	2,333

<sup>&</sup>lt;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.

## 36 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).

b The opening balances were adjusted on account of the first-time application of the IFRS 16 "Leases" accounting standard. Financial liabilities included finance lease liabilities in accordance with IAS 17 for the last time as of December 31, 2018. For further information, please refer to the section "Initial application of standards, interpretations, and amendments in the financial year" in the notes to the consolidated financial statements in the 2019 Annual Report.

<sup>&</sup>lt;sup>c</sup> Other carrying amount changes not having an effect on cash flows relate, among other effects, to bonds and other securitized liabilities in the amount of EUR 365 million and interest in connection with zero-coupon bonds recognized as liabilities to banks in the amount of EUR 1,208 million. Interest payments resulting from this in the future will be recognized in net cash from operating activities.



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. Consistent with our efforts to implement our Group strategy pillar "Lead in business productivity," the business-to-business (B2B) telecommunications services were realigned in the course of the year. To this end, TC Services and Classified ICT (with the exception of a few activities in the area of Classified IT project business), portfolio units previously assigned to the Systems Solutions operating segment, as well as Telekom Global Carrier (TGC) and Network Infrastructure, (NWI) – which were previously reported under the Europe operating segment and the Group Headquarters & Group Services segment and which together form the business area designated as Deutsche Telekom Global Carrier (DTGC) – have been combined under the Germany operating segment. Effective the start of the third quarter of 2020, the management of the Deutsche Telekom Group and hence also the reporting structure were both based on this new segment allocation. As part of these transactions, the assets and liabilities assigned to the business areas were transferred to the Germany operating segment. Prior-year comparatives in the segments affected have been adjusted retrospectively in segment reporting. The transactions were consummated under company law on July 1, 2020 (TC Services and Classified ICT) and on October 1, 2020 (DTGC). Another focus is on the wholesale business providing telecommunications services for carriers and the Group's other operating segments. The United States operating segment comprises all mobile activities in the U.S. market. The business combination of T-Mobile US and Sprint was completed on April 1, 2020, forming the all-new, larger T-Mobile US. The Europe operating segment comprises all fixed-network and mobile operations of the national companies in Greece, Romania, Hungary, Poland, the Czech Republic, Croatia, Slovakia, Austria, North Macedonia, and Montenegro. On November 6, 2020, OTE concluded an agreement with Orange Romania concerning the sale of the 54 % stake in Telekom Romania Communications, which operates the Romanian fixed-network business. The national company in Albania was sold as of May 7, 2019. In addition to consumer business, most of the national companies also offer ICT solutions for business customers. The Systems Solutions operating segment offers business customers an integrated product and solution portfolio. With offerings for connectivity, digital solutions, cloud and infrastructure, and security, in addition to strategic partnerships, the segment offers its customers help and guidance to implement digital business models. The goal of the Group Development operating segment is to actively manage entities and equity investments to grow their value. This approach led to the creation of GD Towers – comprising Deutsche Funkturm (DFMG) and the Dutch cell tower business - within the Group Development segment. Following the integration of Tele2 Netherlands as of the start of 2019, the Dutch MVNO and SIM provider, Simpel, was taken over effective December 1, 2020. Deutsche Telekom Capital Partners (DTCP) and the Group functions of Mergers & Acquisitions and Strategic Portfolio Management have also been assigned to Group Development. The stake in Ströer SE & Co. KGaA was transferred to Deutsche Telekom Trust e.V. in August 2019 as plan assets to cover Deutsche Telekom's existing pension obligations. The Group Development operating segment also included the 12 % financial stake in BT until March 23, 2018, when it was transferred to Deutsche Telekom Trust e.V. as plan assets. The Group Headquarters & Group Services segment comprises all Group units that cannot be allocated directly to one of the operating segments and also reports on the Board of Management department Technology and Innovation. It unites the cross-segment functions of technology, innovation, IT, and Security of the Germany, Europe, and Systems Solutions operating segments. 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.

The business segments shown 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 or 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. 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	Intersegment revenue	Total revenue	Profit (loss) from operations (EBIT)	Depreciation and amortization	Impairment losses	Interest income	
Germany	2020	23,013	766	23,779	4,085	(4,435)	(5)	4	
	2019	22,942	788	23,730	4,327	(4,337)	(4)	6	
	2018	22,833	829	23,662	4,215	(4,109)	(6)	3	
United States	2020	61,206	2	61,208	9,187	(15,574)	and Impairment losses income  1,435) (5) 4  1,337) (4) 6  1,437) (6) 3  1,5574) (91) 24  1,7777) 0 19  1,648) (227) 23  1,773) (341) 29  1,319) (679) 8  1,360) (430) 7  1,450) (29) 11  1,353) (56) 12  1,780) 0 1  1,812) 0 0  1,259) (45) 1,237  1,141) (2) 1,330  1,007) (798) 1,296  1,290) (376) 1,395		
	2019	40,418	2	40,420	5,488	(7,777)	0	19	
	2018	36,521	1	36,522	4,634	(5,294)	0	14	
Europe	2020	11,139	196	11,335	1,278	(2,648)	(227)	23	
	2019	11,395	192	11,587	1,109	(2,773)	(341)	29	
	2018	11,106	206	11,312	650	(2,319)	(679)	8	
Systems Solutions	2020	3,242	936	4,178	(650)	(360)	(430)	7	
	2019	3,423	1,001	4,424	(425)	(450)	(29)	11	
	2018	3,435	1,039	4,474	(453)	(353)	(56)	12	
Group Development	2020	2,202	681	2,883	562	(780)	0	1	
	2019	2,158	639	2,797	615	(812)	0	0	
	2018	1,579	606	2,185	560	(334)	0	0	
Group Headquarters & Group Services	2020	196	2,360	2,556	(1,655)	(1,259)	(45)	1,237	
	2019	195	2,432	2,627	(1,631)	(1,141)	(2)	1,330	
	2018	182	2,553	2,735	(1,646)	(803)	(10)	1,018	
Total	2020	100,999	4,941	105,939	12,807	(25,057)	(798)	1,296	
	2019	80,531	5,055	85,585	9,483	(17,290)	(376)	1,395	
	2018	75,656	5,234	80,890	7,960	(13,212)	(750)	1,055	
Reconciliation	2020	0	(4,941)	(4,941)	(3)	26	0	(882)	
	2019	0	(5,055)	(5,055)	(26)	24	(21)	(1,047)	
	2018	0	(5,234)	(5,234)	41	99	28	(778)	
Group	2020	100,999	0	100,999	12,804	(25,031)	(798)	414	
	2019	80,531	0	80,531	9,457	(17,266)	(397)	348	
	2018	75,656	0	75,656	8,001	(13,113)	(722)	277	

<sup>&</sup>lt;sup>a</sup> Retrospective changes in segment reporting have not been applied to the individual segment cash flows for the 2018 financial year in accordance with IFRS 8.29 since the amount of work required to do so would have been excessive.

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

accounted accounted Net cash (used in) for using from from Of which: (u Interest the equity Income Segment Segment Segment the equity operating investing cash fin expense method taxes assets liabilities investments method activities <sup>a</sup> activities <sup>a</sup> capex <sup>a, b</sup> act	et cash from used in) Average number of employees (4,098) 67,547
and joint ventures Investments Investments Accounted accounted for using Interest the equity Income Segment Segment Segment the equity operating investing expense method taxes assets liabilities investments method activities accivities accivi	from ased in) Average number of employees (4,098) Average number of employees
ventures Investments Net cash N. accounted accounted accounted for using from from Of which: (L. Interest the equity Income Segment Segment Segment the equity operating investing cash fine expense method taxes assets liabilities investments method activities activities acapexa, b activities accounted Net cash (used in) for using from from Of which: (L. Interest the equity operating investing cash fine expense method taxes assets liabilities investments method activities activities acapexa, b activities activities activities acapexa, b activities activitie	from ased in) Average number of employees (4,098) Average number of employees
accounted accounted Net cash (used in) for using from from Of which: (u Interest the equity Income Segment Segment Segment the equity operating investing cash fin expense method taxes assets liabilities investments method activities <sup>a</sup> activities <sup>a</sup> capex <sup>a, b</sup> act	from ased in) Average number of employees (4,098) Average number of employees
Interest the equity Income Segment Segment Segment the equity operating investing cash fin expense method taxes assets liabilities investments method activities <sup>a</sup> activities <sup>a</sup> capex <sup>a, b</sup> act	nancing number of employees (4,098) 67,547
expense method taxes assets liabilities investments method activities <sup>a</sup> activities <sup>a</sup> capex <sup>a, b</sup> act	employees (4,098) 67,547
	(4,098) 67,547
(200) (0) 40,010 32,000 4,247 34 0,007 (4,214)	, , , , , ,
(209) 0 (5) 44,274 32,222 6,237 12 7,682 (4,584) (4,414)	7,002 70,000
(145) 0 0 40,347 28,735 4,799 12 n.a. n.a. n.a.	n.a. 72,773
(3,384) 13 (1,292) 176,765 117,681 13,566 296 13,501 (14,001) (10,394)	8,469 65,015
	(4,135) 46,544
	(2,606) 45,729
(189) 0 (210) 27,034 9,172 2,502 54 3,725 (3,244) (2,216)	(655) 42,359
	(1,748) 45,895
(205) 3 (281) 26,359 9,742 2,089 60 n.a. n.a. n.a.	n.a. 47,894
(26) 1 (32) 4,190 3,798 257 23 54 (411) (255)	656 29,025
(25) 0 (36) 4,517 3,967 362 25 153 (251) (356)	112 29,517
(7) (535) 0 3,811 3,155 436 24 n.a. n.a. n.a.	n.a. 29,314
(271) (21) 33 9,212 11,220 1,018 122 1,101 (1,020) (699)	(215) 2,664
(140) (30) 9 8,395 10,571 558 96 1,142 (610) (452)	4,937 2,708
(13) 4 (114) 6,037 8,553 303 311 1,008 (391) (271) (	(3,064) 1,965
(1,364) 0 (424) 48,047 63,188 1,013 14 1,727 5,227 (990)	(6,035) 16,928
(1,510) (1) (491) 54,339 65,244 998 9 4,112 (16,669) (1,010)	(1,727) 17,829
(1,508) (1) (487) 50,327 59,207 1,058 10 n.a. n.a. n.a.	n.a. 18,693
(5,517) (12) (1,931) 310,263 237,739 22,603 543 28,165 (17,663) (18,726)	(1,878) 223,539
(3,758) 87 (2,005) 222,816 176,618 17,369 489 28,030 (30,852) (14,417)	4,521 212,846
(2,871) (529) (1,764) 196,104 152,719 15,384 576 n.a. n.a. n.a.	n.a. 216,369
879 0 2 (45,346) (45,372) (33) 0 (4,422) (4,986) 32	9,439 0
1,046 0 12 (52,144) (52,177) (75) 0 (4,956) 16,622 60 (	11,662) 0
777 0 (60) (50,729) (50,781) (129) 0 n.a. n.a. n.a.	n.a. 0
(4,638) (12) (1,929) 264,917 192,367 22,570 543 23,743 (22,649) (18,694)	7,561 223,539
(2,712) 87 (1,993) 170,672 124,441 17,294 489 23,074 (14,230) (14,357)	(7,141) 212,846
(2,094) (529) (1,824) 145,375 101,938 15,255 576 17,948 (14,297) (12,492)	(3,259) 216,369

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. Noncurrent 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.

millions of €							
		Non-current assets			Net revenue		
	Dec. 31, 2020	Dec. 31, 2019	Dec. 31, 2018	2020	2019	2018 <sup>a</sup>	
Germany	42,941	43,431	39,012	24,730	24,600	24,358	
International	170,295	95,852	79,959	76,269	55,930	51,298	
Europe (excluding Germany)	23,075	23,858	21,521	14,517	14,858	14,065	
North America	147,115	71,886	58,380	61,288	40,445	36,667	
Other countries	106	108	58	463	628	566	
Group	213,236	139,283	118,971	100,999	80,531	75,656	

a Due to a change in allocation between the geographical segments, the value of net revenue for the comparative period 2018 was adjusted retrospectively in 2019

**Information on products and services.** Revenue generated with external customers for groups of comparable products and services developed as follows:

millions of €			
		Net revenue	
	2020	2019	2018
Telecommunications	95,628	74,991	70,303
ICT solutions	4,915	5,086	4,896
Other	455	454	457
	100,999	80,531	75,656

## 37 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, 2019: EUR 0.6 billion) and to contingent assets amounting to EUR 0.0 billion (December 31, 2019: EUR 0.0 billion) that, 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. Litigation provisions include the costs of legal counsel services and any probable losses. Deutsche Telekom does not believe that any additional costs arising from legal counsel services or the results of proceedings will have a material adverse effect on the results of operations and financial position of the Group. In addition to individual cases that do not have any significant impact on their own, the aforementioned total contingent liabilities include the following items, the sequence of which does not imply an evaluation of their probability of occurrence or potential damage. In the event that in extremely rare cases disclosures required by IAS 37 are not made, Deutsche Telekom comes to the conclusion that these disclosures could seriously undermine the outcome of the relevant proceedings.



## Contingent liabilities

Prospectus liability proceedings (third public offering, or DT3). This relates to initially around 2,600 ongoing lawsuits from some 16,000 alleged buyers of T-Shares sold on the basis of the prospectus published on May 26, 2000. The plaintiffs assert that individual figures given in this prospectus were inaccurate or incomplete. The amount in dispute currently totals approximately EUR 78 million plus interest. Some of the actions are also directed at KfW and/or the Federal Republic of Germany as well as the banks that handled the issuances. The Frankfurt/Main Regional Court had issued orders for reference to the Frankfurt/Main Higher Regional Court in accordance with the German Capital Investor Model Proceedings Act (Kapitalanleger-Musterverfahrensgesetz – KapMuG) and has temporarily suspended the initial proceedings. On May 16, 2012, the Frankfurt/Main Higher Regional Court had ruled that there were no material errors in Deutsche Telekom AG's prospectus. In its decision on October 21, 2014, the Federal Court of Justice partly revoked this ruling, determined that there was a mistake in the prospectus, and referred the case back to the Frankfurt/Main Higher Regional Court. On November 30, 2016, the Frankfurt/Main Higher Regional Court ruled that the mistake in the prospectus identified by the Federal Court of Justice could result in liability on the part of Deutsche Telekom AG, although the details of that liability would have to be established in the initial proceedings. Both Deutsche Telekom AG and some of the individual plaintiffs in the model proceedings have brought an appeal before the Federal Court of Justice against this decision. We continue to hold the opinion that there are compelling reasons why Deutsche Telekom AG should not be liable for damages.

Likewise, 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 Kabel Deutschland GmbH (VKDG)) filed a claim against Telekom Deutschland GmbH to reduce the annual charge for the rights to use cable duct capacities in the future and gain a partial refund of the payments made in this connection since 2004. According to VKDG's latest estimates, its claims amounted to around EUR 624 million along with around EUR 9 million for the alleged benefit from additional interest, plus interest in each case. Claims prior to 2009 are now no longer being asserted by VKDG. After the Frankfurt/Main Regional Court had dismissed the complaint in 2013, the Frankfurt/Main Higher Regional Court also rejected the appeal in December 2014. In the ruling dated January 24, 2017, the Federal Court of Justice reversed the appeal ruling and referred the case back to the Frankfurt/Main Higher Regional Court for further consideration. In its ruling dated December 20, 2018, the Frankfurt/Main Higher Regional Court again rejected the appeal and disallowed a further appeal. In similar proceedings, Unitymedia Hessen GmbH & Co. KG, Unitymedia NRW GmbH, and Kabel BW GmbH 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. In addition, the plaintiffs are demanding a refund of currently around EUR 570 million plus interest. The claim was dismissed in the first instance by the Cologne Regional Court on October 11, 2016. In its ruling dated March 14, 2018, the Düsseldorf Higher Regional Court rejected the appeal against this decision. In both proceedings, the plaintiffs have lodged a complaint against the non-allowance of appeal with the Federal Court of Justice.

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 and consumer protection proceedings. Deutsche Telekom and its subsidiaries are subject to proceedings under competition law in various jurisdictions, which may also lead to civil follow-on claims. Taken individually, none of the proceedings have 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, which were paid in full in January 2015. Slovak Telekom and Deutsche Telekom challenged the European Commission's decision on December 29, 2014 before the General Court of the European Union. On December 13, 2018, the court partially overturned the European Commission's decision and reduced the fines by a total of EUR 13 million. Despite this positive judgment, on February 21, 2019, Slovak Telekom and Deutsche Telekom filed an appeal with the European Court of Justice against the ruling by the General Court. With this appeal, Slovak Telekom and Deutsche Telekom are seeking, inter alia, to overturn the findings of the European Commission determining Slovak Telekom's behavior as abusive. 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. At present, two claims totaling EUR 112 million plus interest are still pending.





**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.

#### 38 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, 2020	Dec. 31, 2019
Minimum lease payments	260	213
Unguaranteed residual value	3	4
Gross investment	262	218
Unearned finance income	(15)	(21)
Net investment (present value of the minimum lease payments)	248	197

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

millions of €	Dec. 31, 20	Dec. 31, 2020		019
Maturity	Gross investment	Present value of minimum lease payments	Gross investment	Present value of minimum lease payments
Within 1 year	93	87	79	74
In 1 to 2 years	74	69	65	53
In 2 to 3 years	46	44	34	31
In 3 to 4 years	35	34	19	18
In 4 to 5 years	9	8	15	15
After 5 years	5	4	6	6
	262	248	218	197

**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 – where modem and router features are incorporated in one device – are not defined as leases.

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. This value 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, 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:

		Technical equipment and	
	Land and buildings	machinery	Total
Cost			
At December 31, 2018	99	1,599	1,697
Currency translation	(2)	14	11
Changes in the composition of the Group	0	0	0
Additions	0	978	978
Disposals	(18)	(1,027)	(1,045)
Change from non-current assets and disposal groups held for sale	0	0	0
Reclassifications	1	15	16
At December 31, 2019	80	1,578	1,657
Currency translation	(1)	(710)	(712)
Changes in the composition of the Group	0	5,124	5,124
Additions	0	2,600	2,600
Disposals	(14)	(2,490)	(2,505)
Change from non-current assets and disposal groups held for sale	(61)	0	(61)
Reclassifications	(1)	218	219
At December 31, 2020	2	6,318	6,322
Accumulated depreciation and impairment losses			
At December 31, 2018	(76)	(984)	(1,060)
Currency translation	2	(10)	(9)
Changes in the composition of the Group	0	0	0
Additions (depreciation)	(3)	(555)	(558)
Additions (impairment)	0	0	0
Disposals	17	787	804
Change from non-current assets and disposal groups held for sale	0	0	0
Reclassifications	1	1	2
Reversal of impairment losses	0	0	0
At December 31, 2019	(59)	(762)	(821)
Currency translation	1	129	130
Changes in the composition of the Group	0	0	0
Additions (depreciation)	(1)	(2,642)	(2,644)
Additions (impairment)	0	0	0
Disposals	12	1,215	1,227
Change from non-current assets and disposal groups held for sale	44	0	44
Reclassifications	3	(96)	(94)
Reversal of impairment losses	0	0	0
At December 31, 2020	(1)	(2,156)	(2,157)
Net carrying amounts	.,		
At December 31, 2019	21	816	837
At December 31, 2020	1	4,163	4,164

The future minimum lease payments arising from non-cancelable operating leases are as follows:

millions of €		
Maturity	Dec. 31, 2020	Dec. 31, 2019
Within 1 year	1,822	876
In 1 to 2 years	393	589
In 2 to 3 years	232	32
In 3 to 4 years	241	365
In 4 to 5 years	203	21
After 5 years	751	697
	3,641	2,581





The increase in future minimum lease payments is mainly due to the leases taken over from Sprint.

## 39 Other financial obligations

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

millions of €					
	Dec. 31, 2020				
	Total	Due within 1 year	Due > 1 year ≤ 5 years	Due > 5 years	
Purchase commitments regarding property, plant and equipment	6,980	6,109	522	349	
Purchase commitments regarding intangible assets	1,099	566	532	1	
Firm purchase commitments for inventories	3,023	2,988	35	0	
Other purchase commitments and similar obligations	16,697	9,106	6,398	1,193	
Payment obligations to the Civil Service Pension Fund	1,783	296	932	555	
Obligations from the acquisition of interests in other companies	29	29	0	0	
Miscellaneous other obligations	44	3	15	26	
	29,655	19,097	8,434	2,124	

#### 40 Share-based payment

#### Share Matching Plan

Since the 2011 financial year, specific executives have been contractually obligated to invest a minimum of 10 % 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/Variable I), in Deutsche Telekom AG shares. In the 2019 financial year, the upper limit for personal investment was raised from 33.3 % to 50 % of the short-term variable remuneration component. 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.

Since the 2015 financial year, further executives who are not contractually obligated to participate in the Share Matching Plan have been 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. The conditions of participation in the voluntary Share Matching Plan were updated in the 2019 financial year. Since then, participation has been open to all executives in certain management groups. To participate, the executives invest at least 10 % and – since the 2019 financial year – a maximum of 50 % of the target amount (100 %) of the short-term remuneration component (Short-Term Incentive) in shares of Deutsche Telekom AG. Deutsche Telekom AG will award additional shares for every share acquired as part of this executive's aforementioned personal investment (Share Matching Plan). The number of additional shares granted will depend on the management group to which the executive is assigned. 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 2020 financial year, a total of 1.0 million (2019: 0.9 million) matching shares were allocated to beneficiaries of the plan at a weighted average fair value of EUR 12.22 (2019: EUR 12.06). The cost is to be recognized against the capital reserves pro rata temporis until the end of the service period and amounted to EUR 9.0 million in total for all tranches as of December 31, 2020 (December 31, 2019: EUR 7.7 million). In the reporting year, reserves were reduced by transfers of shares to plan participants in a total value of EUR 7.0 million (2019: EUR 5.5 million). The capital reserves recognized for the Share Matching Plan as of December 31, 2020 amounted to EUR 19.1 million (December 31, 2019: EUR 17.2 million).

For the compensation system of Board of Management members who also participate in the Share Matching Plan, please refer to the "Compensation report" in the combined management report.

#### Long-term incentive plan

Executives from the Deutsche Telekom AG Group can participate in a long-term incentive plan provided they meet certain eligibility requirements or have an individual contractual commitment. At the inception of the plan, the participating executives receive a package of virtual shares with a value between 10 % and 43 % of the participant's annual target salary depending on the extent to which defined criteria are fulfilled. The number of virtual shares is contingent on the participant's annual target salary, management group assignment, and, since the 2019 financial year, on the achievement of the collective targets (financial and strategic targets) of the organizational unit to which the executive is assigned.



Over the term of the four-year plan, the value of the virtual shares changes in line with Deutsche Telekom AG's share price development. The number of virtual shares will change on achievement of the targets for four equally weighted performance indicators (return on capital employed, adjusted earnings per share, employee satisfaction, and customer satisfaction), to be determined at the end of each year. In addition, a dividend is granted for the virtual shares over the term of the plan. This dividend is reinvested in virtual shares, increasing the number of virtual shares held by each plan participant. At the end of the four-year plan term, the final number of virtual 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 virtual shares.

The individual long-term incentive plans 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 virtual shares by Deutsche Telekom AG's share price discounted to the reporting date. In the 2020 financial year, a total of 3.91 million (2019: 3.88 million) virtual shares were granted at a weighted average fair value of EUR 14.76 (2019: EUR 15.07). 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 long-term incentive plans amounted to EUR 77 million for all tranches in the reporting year (2019: EUR 50 million). In 2020, the provision was utilized in the amount of EUR 47 million (2019: EUR 76 million). Following a reclassification of EUR 2 million to liabilities directly associated with non-current assets and disposal groups held for sale, the provision amounted to EUR 152 million as of December 31, 2020 (December 31, 2019: EUR 125 million).

## Share-based remuneration at T-Mobile US

Under T-Mobile US' Omnibus Incentive Plan, the company may grant stock options, stock appreciation rights, restricted stock, restricted stock units (RSUs), and performance awards to employees, consultants, advisors and non-employee directors. As of December 31, 2020, there were 25 million T-Mobile US shares of common stock (December 31, 2019: 19 million shares) available for future grants under the 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 fair value at grant date USD
Non-vested as of January 1, 2020	10,503,211	67.31
Transferred through Sprint acquisition	1,852,527	83.90
Granted	5,891,303	97.18
Vested	(7,112,552)	69.32
Forfeited	(1,033,267)	84.52
Non-vested as of December 31, 2020	10,101,222	84.61

## Performance-based restricted stock units (PRSUs)

	Number of shares	Weighted average fair value at grant date USD
Non-vested as of January 1, 2020	3,803,539	69.78
Transferred through Sprint acquisition	3,535,384	83.90
Granted	2,079,118	106.26
Vested	(6,127,838)	77.11
Forfeited	(138,034)	83.90
Non-vested as of December 31, 2020	3,152,169	85.01





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 628 million as of December 31, 2020 (December 31, 2019: EUR 495 million).

The outstanding stock options mainly relate to the stock option plans of MetroPCS and Sprint, both of which were set up prior to the business combinations with T- Mobile US. No new awards may be granted under these plans.

The plans resulted in the following development of the T-Mobile US stock options:

	Number of shares	Weighted average exercise price USD	Weighted average remaining contractual life (years)
Stock options outstanding at January 1, 2020	194,942	13.80	2.9
Transferred through Sprint acquisition	1,635,518	33.37	
Exercised	(906,295)	53.02	
Forfeited/canceled	(5,470)	49.75	
Stock options outstanding at December 31, 2020	918,695	51.77	4.0
Stock options exercisable at December 31, 2020	917,955	51.79	4.0

The exercise of stock options generated cash inflows of EUR 42 million (USD 48 million) in the 2020 financial year (2019: EUR 1 million (USD 1 million)).

## 41 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 28 "Finance costs," and Note 30 "Other financial income/ expense."

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

millions of €						
			Amounts r	ecognized in the sta in accordance	atement of financial with IFRS 9	position
	Measurement category in accordance with IFRS 9	Carrying amount Dec. 31, 2020	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>
Assets						
Cash and cash equivalents	AC	12,939	12,939			
Trade receivables						
At amortized cost	AC	6,007	6,007			
At fair value through other comprehensive income	FVOCI	7,516			7,516	
At fair value through profit or loss	FVTPL	0				0
Other financial assets						
Originated loans and other receivables						
At amortized cost	AC	4,722	4,722			
Of which: collateral paid	AC	543	543			
Of which: publicly funded projects	AC	1,676	1,676			
At fair value through other comprehensive income	FVOCI	0			0	
At fair value through profit or loss	FVTPL	203				203
Equity instruments						
At fair value through other comprehensive income	FVOCI	425		425		
At fair value through profit or loss	FVTPL	3				3
Derivative financial assets						







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

				in accordance	with IFRS 9	
	Measurement category in accordance with IFRS 9	Carrying amount Dec. 31, 2020	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>
Derivatives without a hedging relationship	FVTPL	1,992		•		1,992
Of which: termination rights embedded in bonds issued	FVTPL	889				889
Of which: energy forward agreements embedded in contracts	FVTPL	77				77
Of which: options received by third parties for the purchase of shares in subsidiaries and associates	FVTPL	819				819
Derivatives with a hedging relationship	n.a.	2,047			21	2,026
Lease assets	n.a.	248				
Cash and cash equivalents, trade receivables and other financial assets directly associated with non-current assets and disposal groups held for sale	AC	206	206			
Equity instruments within non-current assets and disposal groups held for sale	FVOCI	32		32		
Liabilities						
Trade payables	AC	9,760	9,760			
Bonds and other securitized liabilities	AC	87,702	87,702			
Liabilities to banks	AC	5,257	5,257			
Liabilities to non-banks from promissory note bonds	AC	490	490			
Liabilities with the right of creditors to priority repayment in the event of default	AC	3,886	3,886			
Other interest-bearing liabilities	AC	7,206	7,206			
Of which: collateral received	AC	1,530	1,530			
Other non-interest-bearing liabilities	AC	1,703	1,703			-
Lease liabilities	n.a.	32,715				
Derivative financial liabilities						
Derivatives without a hedging relationship	FVTPL	478				478
Of which: options granted to third parties for the purchase of shares in subsidiaries and associates	FVTPL	8				8
Of which: energy forward agreements embedded in contracts	FVTPL	129				129
Derivatives with a hedging relationship	n.a.	386			334	52
Trade payables and other financial liabilities directly associated with non-current assets and disposal groups held for sale	AC	398	398			
Of which: aggregated by measurement category in accordance with IFRS 9						
Assets	-					
Financial assets at amortized cost	AC	23,874	23,874			
Financial assets at fair value through other comprehensive income with recycling to profit or loss	FVOCI	7,516			7,516	
Financial assets at fair value through other comprehensive income without recycling to profit or loss	FVOCI	457		457		
Financial assets at fair value through profit or loss	FVTPL	2,198				2,198
Liabilities						
Financial liabilities at amortized cost  Financial liabilities at fair value through profit or	AC	116,402	116,402			
loss	FVTPL	478				478







millions of €					Amounts	ecognized in the st	atement of financia	l position		
	Amounts recognized in the statement of financial position in accordance with IFRS 16	Fair value Dec. 31, 2020 <sup>b</sup>	Measurement category in accordance with IFRS 9	Carrying amount Dec. 31, 2019	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	Amounts recognized in the statement of financial position in accordance with IFRS 16	Fair value Dec. 31, 2019 <sup>b</sup>
Assets										
Cash and cash equivalents			AC	5,393	5,393					
Trade receivables At amortized cost			AC	5,452	5,452					
At fair value through other										
comprehensive income		7,516	FVOCI	5,390			5,390			5,390
At fair value through profit or loss		0	FVTPL	4				4		4
Other financial assets Originated loans and other receivables										
At amortized cost		4,758	AC	4,282	4,282					4,317
Of which: collateral paid			AC	637	637					
Of which: publicly funded projects			AC	1,350	1,350					
At fair value through other comprehensive income			FVOCI	0	,		0			
At fair value through profit or loss		203	FVTPL	121				121		121
Equity instruments		200	17112	121				121		121
At fair value through other										
comprehensive income		425	FVOCI	293		293				293
At fair value through profit or loss		3	FVTPL	22				22		22
Derivative financial assets Derivatives without a hedging relationship		1,992	FVTPL	893				893		893
Of which: termination rights embedded in bonds issued		889	FVTPL	630				630		630
Of which: energy		007	IVIEL	030				030		030
forward agreements embedded in contracts		77	FVTPL	0				0		0
Of which: options received by third parties for the purchase of shares in subsidiaries				0				0		0
and associates  Derivatives with a hedging		819	FVTPL							
relationship		2,047	n.a.	1,439			287	1,152		1,439
Lease assets	248	,-	n.a.	197				, - '	197	, -
Cash and cash equivalents, trade receivables and other financial assets directly associated with non-current assets and disposal groups										
held for sale			AC	0	0					
Equity instruments within non- current assets and disposal					· · ·					
groups held for sale		32	FVOCI	35		35				35
Liabilities				0.474	0.474					
Trade payables			AC	9,431	9,431					

a For energy forward agreements embedded in contracts and options received from third parties for the purchase of shares in subsidiaries and associates, please refer to the detailed comments in the following section.
 b The practical expedient under IFRS 7.29a was applied for information on specific fair values.



millions of €					Amounts r	ecognized in the st in accordance	atement of financial e with IFRS 9	position		
	Amounts recognized in the statement of financial position in accordance with IFRS 16	Fair value Dec. 31, 2020 <sup>b</sup>	Measurement category in accordance with IFRS 9	Carrying amount Dec. 31, 2019	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	Amounts recognized in the statement of financial position in accordance with IFRS 16	Fair value Dec. 31, 2019 <sup>b</sup>
Bonds and other securitized liabilities		97,655	AC	51,644	51,644					56,357
Liabilities to banks Liabilities to non-banks from		5,393	AC	6,516	6,516					6,572
promissory note bonds		586	AC	699	699					799
Liabilities with the right of creditors to priority repayment in the event of default		4,167	AC	0	0					0
Other interest-bearing liabilities		7,270	AC	4,369	4,369					4,506
Of which: collateral received		7,270	AC	1,273	1,273					1,000
Other non-interest-bearing liabilities			AC	1,476	1,476					
Lease liabilities	32,715		n.a.	19,835	1,4/6				19,835	
Derivative financial liabilities  Derivatives without a hedging										
relationship		478	FVTPL	325				325		325
Of which: options granted to third parties for the purchase of shares in subsidiaries		_						_		
and associates Of which: energy		8	FVTPL	7				7		7
forward agreements embedded in contracts  Derivatives with a hedging		129	FVTPL	146				146		146
relationship		386	n.a.	1,319			1,253	66		1,319
Trade payables and other financial liabilities directly associated with non-current assets and disposal groups held for sale			AC	29	29					
Of which: aggregated by measurement category in accordance with IFRS 9 Assets										
Financial assets at amortized cost		4,758	AC	15,127	15,127					4,317
Financial assets at fair value through other comprehensive income with recycling to profit										
or loss Financial assets at fair		7,516	FVOCI	5,390			5,390			5,390
value through other comprehensive income without recycling to profit or loss		457	FVOCI	328		328				328
Financial assets at fair value through profit or loss		2,198	FVTPL	1,040				1,040		1,040
Liabilities Financial liabilities at amortized cost		115,071	AC	74,164	74,164					68,234
Financial liabilities at fair value through profit or loss		478	FVTPL	325				325		325

a For energy forward agreements embedded in contracts and options received from third parties for the purchase of shares in subsidiaries and associates, please refer to the detailed comments in the following section.
 b The practical expedient under IFRS 7.29a was applied for information on specific fair values.



Trade receivables include receivables amounting to EUR 2.0 billion (December 31, 2019: EUR 1.8 billion) due in more than one year. The fair value generally equals the carrying amount.

#### 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 instruments not measured at fair value, the fair values of which are disclosed nevertheless

millions of €									
		Dec. 31	, 2020			Dec. 31, 2019			
	Level 1	Level 2	Level 3ª	Total	Level 1	Level 2	Level 3 <sup>a</sup>	Total	
Assets									
Originated loans and receivables		4,758		4,758		4,317		4,317	
Liabilities									
Financial liabilities measured at amortized cost	87,384	26,798	889	115,071	40,460	27,144	630	68,234	
Of which: bonds and other securitized liabilities	83,238	13,549	868	97,655	40,460	15,267	630	56,357	
Of which: liabilities to banks		5,393		5,393		6,572		6,572	
Of which: liabilities to non-banks from promissory notes		586		586		799		799	
Of which: liabilities with the right of creditors to priority repayment in the event of default	4,146	0	21	4,167		0		0	
Of which: other interest-bearing liabilities		7,270		7,270		4,506		4,506	

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



#### Financial instruments measured at fair value

millions of €								
		Dec. 31,	2020			Dec. 31	, 2019	
	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total
Assets								
Trade receivables								
At fair value through other comprehensive income			7,516	7,516			5,390	5,390
At fair value through profit or loss			0	0			4	4
Other financial assets – Originated loans and other receivables								
At fair value through other comprehensive income				0				0
At fair value through profit or loss	133	62	8	203	114		7	121
Equity instruments								
At fair value through other comprehensive income			457	457			328	328
At fair value through profit or loss			3	3	22			22
Derivative financial assets								
Derivatives without a hedging relationship		207	1,785	1,992		263	630	893
Derivatives with a hedging relationship		2,047		2,047		1,439		1,439
Liabilities								
Derivative financial liabilities								
Derivatives without a hedging relationship		341	137	478		172	153	325
Derivatives with a hedging relationship		386		386		1,319		1,319

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, liabilities to non-banks from promissory notes, 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.

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.

In April 2020, forward-payer swaps with a nominal value of EUR 8.8 billion when translated into euros, were terminated prematurely. These transactions were concluded for borrowings at T-Mobile US and designated as cash flow hedges in effective hedging relationships. In the reporting period, the measurement resulted in a loss from hedging instruments of EUR 924 million recognized under other comprehensive income. The secured term loan was originated on April 1, 2020. The measurement results of the forward-payer swaps between April 1, 2020 and their termination in the course of the following days amounted to EUR 39 million (expense) and were recognized in other financial income/expense.

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 €		
	2020	2019
Fair value as of December 31	457	328
Dividends recognized in profit/loss	1	0
on investments divested in the reporting period	0	0
on investments still held at the reporting date	0	0
Fair value at the derecognition date of instruments divested in the reporting period	52	225
Cumulative gains reclassified in the reporting period from other comprehensive income to retained earnings	7	82
Of which: from the disposal of investments	7	60
Of which: from the conversion of preference shares into common shares	0	22
Cumulative losses reclassified in the reporting period from other comprehensive income to retained		
earnings	0	0
Of which: from the disposal of investments	0	0

## 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: stock options	Derivative financial assets at fair value through profit or loss: energy forward agreements embedded in contracts	Derivative financial liabilities at fair value through profit or loss: energy forward agreements embedded in contracts
Carrying amount as of January 1, 2020	328	630	0	0	(146)
Additions (including first-time categorization as Level 3)	116	335	0	43	0
Decreases in fair value recognized in profit/loss (including losses on disposal)	n.a.	(905)	0	(15)	(54)
Increases in fair value recognized in profit/loss (including gains on disposal)	n.a.	908	805	58	57
Decreases in fair value recognized directly in equity	(32)	n.a.	n.a.	n.a.	n.a.
Increases in fair value recognized directly in equity	99	n.a.	n.a.	n.a.	n.a.
Disposals	(52)	0	0	0	4
Currency translation effects recognized directly in equity	(2)	(79)	0	(9)	10
Carrying amount as of December 31, 2020	457	889	805	77	(129)

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 431 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. For the development of the carrying amounts in the reporting period, please refer to the table above. At the reporting date, investments with a carrying amount of EUR 32 million were held for sale, while there were no plans to sell the remaining investments. In the case of investments with a carrying amount of EUR 330 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 December 31, 2020. In the case of investments with a carrying amount of EUR 6 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 95 million, for which the last arm's length transactions relating to shares in these companies took place some time ago, 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 3.0 and 12.7) were taken. The 25 % quantile, the median, or the 75 % quantile was used for the multiples depending on the specific circumstances. If other values had been used for the multiples and for the expected revenue amounts, the fair values calculated would have been different. These hypothetical deviations (sensitivities) are shown in the table "Sensitivities of the carrying amounts of the financial assets and financial liabilities assigned to Level 3 depending on unobservable inputs." In addition, non-material individual items with a carrying amount of EUR 26 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 889 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. Because of the substantial increase in the volumes and liquidity of bonds issued and the ongoing phase of negative interest rates, the measurement model was recalibrated in the reporting period. Unlike previously, risk-free interest rates and spread are now simulated separately from each other. For the mean reversion unobservable input, 3 % is now used instead of 10 %. At the current reporting date, the following interest rate volatility and spreads were used for the various rating levels of the bonds:

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

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

%		
	Interest volatility (absolute figure)	Spread
BBB+	0.2 %-0.3 %	0.2 %-1.2 %
BBB-	0.6 %-0.8 %	0.4 %-1.8 %
BB	1.0 %-1.3 %	0.6 %-2.8 %

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 fair values calculated 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 181 million lower (EUR 198 million higher). In the reporting period, net income of EUR 321 million when translated into euros was recognized under Level 3 in other financial income/expense for unrealized gains for the options in the portfolio at the reporting date. In the reporting period, three options were exercised and the relevant bonds canceled prematurely. At the time of termination, the options and their total carrying amount of EUR 358 million when translated into euros were expensed and derecognized. 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: stock options	Derivative financial assets at fair value through profit or loss: energy forward agreements embedded in contracts	Derivative financial liabilities at fair value through profit or loss: energy forward agreements embedded in contracts
Multiple next-level-up quantile	25				
Multiple next-level-down quantile	(6)				
Expected revenues +10 %	2				
Expected revenues -10 %	(2)				
Interest rate volatility <sup>b</sup> +10 %		46			
Interest rate volatility <sup>b</sup> -10 %		(39)			
Spread curve <sup>c</sup> +50 basis points		(251)			
Spread curve <sup>c</sup> -50 basis points		315			
Mean reversion <sup>d</sup> +100 basis points		(29)			
Mean reversion <sup>d</sup> -100 basis points		34			
Future energy prices +10 %				44	28
Future energy prices -10 %				(45)	(28)
Future energy output +5 %				16	(2)
Future energy output -5 %				(17)	2
Future prices for renewable energy credits <sup>e</sup> +100 %				29	24
Future prices for renewable energy credits <sup>e</sup> from zero				(30)	(24)
Share price volatility <sup>f</sup> +10 %			76		
Share price volatility <sup>f</sup> -10 %			(76)		

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

With a carrying amount of EUR -109 million when translated into euros, the derivatives without a hedging relationship assigned to Level 3 and carried under derivative financial liabilities relate to energy forward agreements embedded in contracts entered into by T-Mobile US. The same applies to derivative financial assets with a carrying amount of EUR 77 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. The contracts have been entered into with energy producers since 2017 and run for terms of between 12 and 15 years from the commencement of commercial operation. In the case of five energy forward agreements, commercial operations have already begun; with the others, commercial operations are set to begin between 2021 and 2022. The respective settlement period of the energy forward agreements, which are accounted for separately as derivatives, also starts when the facility begins commercial operation. Under the energy forward agreements, T-Mobile US receives variable amounts based on the facility's actual energy output and the then current energy prices, and pays fixed amounts per unit of energy generated 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 materially influenced by the facility's future energy output, for which T-Mobile US estimated a value of 4,057 gigawatt hours per year at the reporting date. The value of the derivatives is also significantly influenced by future energy prices. Only transactions with terms of up to approximately five years are routinely traded on the energy markets and, consequently, energy prices for years that lie further in the future constitute unobservable inputs. Further, the value of the derivatives is materially influenced by the future prices for renewable energy credits, which are also not observable. For the unobservable portion of the term, T-Mobile US used on-peak energy prices of between EUR 13.53/MWh and EUR 49.58/MWh when translated into euros and off-peak prices of between EUR 6.94/ MWh and EUR 37.78/MWh when translated into euros. An average on-peak/off-peak ratio of 51 % was used. In our opinion, the values used constitute the best estimate in each case. At the reporting date, the calculated fair value for the assets amounted to EUR 123 million when translated into euros and EUR -30 million for the liabilities. If other values had been used for future energy prices, future energy output, or future prices of renewable energy credits, the fair values calculated would have been different. These hypothetical deviations (sensitivities) are shown in the table above. In the reporting period, net income of EUR 50 million (when translated into euros) was recognized under the Level 3 measurement in other operating income/expense for unrealized gains for the derivatives. Please refer to the corresponding table for the development of the carrying amounts

b 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>&</sup>lt;sup>c</sup> The spread curve shows, for the respective maturities, the difference between the interest rates payable by T-Mobile US and the interest rates on U.S. government bonds. A minimum of zero was set for the spread curve for the sensitivity calculation, i.e., negative spreads are excluded.

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

<sup>&</sup>lt;sup>f</sup> The share price volatility shows the expected range of variation of the basic value over the remaining term of an option.





in the reporting period. The market-price changes in the reporting period were largely attributable to changes in observable and unobservable energy prices and to interest rate effects. As part of the business combination with Sprint two agreements concluded by Sprint in 2019 with a carrying amount of EUR 43 million when translated into euros were recognized as financial assets, increasing the carrying amount. One agreement was terminated prematurely in the current reporting period. Due to their distinctiveness, these instruments constitute a separate class of financial instruments. 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 material influence on the measurement of the derivatives, the respective amount resulting from initial measurement – with the exception of the agreements concluded by Sprint that are explained below – was not carried on initial recognition. Instead, these amounts are amortized in profit or loss on a straight-line basis over the period of commercial energy generation (for a total amount of EUR 11 million per year when translated into euros). 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). The development of the amount yet to be amortized in the income statement in the reporting period is shown in the following table. Unobservable inputs also have a material influence on the measurement of the derivatives for the agreements concluded by Sprint. However, under the requirements for business combinations, the respective amounts resulting from the measurement were recognized as derivative financial assets as of April 1, 2020, 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).

The financial assets assigned to Level 3 include derivative financial assets with a carrying amount of EUR 805 million when translated into euros, resulting from the stock options to buy shares in T-Mobile US received from SoftBank in June 2020. The stock options, which can be exercised at any time, mature in 2024, can be exercised partially at fixed and partially at variable purchase prices, and are measured using an option pricing model. In addition to the share price observable on the market and the risk-free interest rates, average share price volatilities of T-Mobile US and comparable companies are calculated based on historic and current figures, since these provide a more reliable estimate for these inputs at the reporting date than exclusively using the current market volatilities. The absolute figure used for the share price volatility at the current reporting date was 27.5 % which, in our opinion, constitutes the best estimate. At the reporting date, the calculated fair value for the stock option amounted to EUR 1,600 million. If another value had been used for the share price volatility, the fair value calculated would have been different. These hypothetical deviations (sensitivities) are shown in the table above. Due to their distinctiveness, these instruments constitute a separate class of financial instruments. The transaction price at inception was zero. Since the unobservable inputs have a material influence on the measurement of the options, the fair value resulting from initial measurement of EUR 1,005 million when translated into euros (before deduction of transaction costs) was not immediately recognized. Instead, this amount will be amortized in profit or loss over the lifetime of the options. This amortization adjusts the effects from measuring the options on an ongoing basis using the valuation model and updated parameters. All amounts from the measurement of the options are presented in net terms in the statement of financial position (other derivative financial assets) and in the income statement (other financial income/expense). The market-price changes in the reporting period are largely attributable to fluctuations in the share price and the risk-free interest rate. The development of the amount yet to be amortized in the income statement in the reporting period is shown in the following table.

# Development of the not yet amortized amounts

millions of €		
	Energy forward agreements	Stock options
Measurement amounts on initial recognition	178	1,005
Measurement amounts on initial recognition (additions during the reporting period)	0	0
Measurement amounts amortized in profit or loss in prior periods	(9)	0
Measurement amounts amortized in profit or loss in the current reporting period	(9)	(127)
Currency translation adjustments	(8)	(49)
Disposals in the current reporting period	(5)	0
Measurement amounts not amortized as of December 31, 2020	147	829

For the trade receivables, loans issued, 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 and financial liabilities measured at fair value through profit or loss and assigned to Level 3 include derivative financial assets with a carrying amount of EUR 14 million when translated into euros and derivative financial liabilities with a carrying amount of EUR -8 million, resulting from options purchased from or granted to third parties for the purchase of company shares. 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	Recognized in profit or loss from derecognition	Net gain (loss)
			At fair value	Currency trans- lation	Impair- ments/ allowances	At fair value <sup>a</sup>		
Debt instruments measured at amortized cost	2020	15	n.a.	(1,207)	(418)	n.a.	(188)	(1,798)
	2019	23	n.a.	662	(165)	n.a.	(41)	479
Debt instruments measured at fair value through profit or loss	2020	16	0	n.a.	n.a.	n.a.	10	26
	2019	14	1	n.a.	n.a.	n.a.	6	21
Debt instruments measured at fair value through other comprehensive income	2020	0	n.a.	n.a.	(435)	(19)	(64)	(518)
	2019	0	n.a.	n.a.	(257)	(26)	0	(283)
Equity instruments measured at fair value through profit or loss	2020	0	0	n.a.	n.a.	n.a.	8	8
	2019	0	(6)	n.a.	n.a.	n.a.	(2)	(8)
Equity instruments measured at fair value through other comprehensive income	2020	1	n.a.	n.a.	n.a.	62	n.a.	63
	2019	1	n.a.	n.a.	n.a.	99	n.a.	100
Derivatives measured at fair value through profit or loss	2020	n.a.	297	n.a.	n.a.	n.a.	n.a.	297
	2019	n.a.	363	n.a.	n.a.	n.a.	n.a.	363
Financial liabilities measured at amortized cost	2020	(3,510)	n.a.	1,462	n.a.	n.a.	n.a.	(2,048)
	2019	(1,768)	n.a.	(678)	n.a.	n.a.	n.a.	(2,446)
	2020	(3,477)	296	255	(853)	43	(234)	(3,970)
	2019	(1,729)	358	(16)	(422)	73	(37)	(1,774)

<sup>&</sup>lt;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 -435 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 28 "Finance costs" and Note 30 "Other financial income/expense."

The other components of the net gain/loss are 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.

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





The net gain from the subsequent measurement for financial instruments allocated to the measurement category at fair value through profit or loss (EUR 297 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 1,207 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 1,462 million. These include currency translation losses from derivatives that Deutsche Telekom used as hedging instruments for hedge accounting in foreign currency (EUR 452 million; 2019: gains of EUR 179 million). Finance costs from financial liabilities measured at amortized cost (expense of EUR 3,510 million) primarily consist of interest expense on bonds and other (securitized) financial liabilities. The item also includes interest expenses 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 28 "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 flow. 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. 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 in full. 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.



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 and 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 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 liabilities, lease liabilities, non-interest-bearing 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 do not have any currency effects, either.

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, 2020, the hedging reserves in shareholders' equity and the fair values of the hedging instruments before taxes would have been EUR 23 million higher (lower) (December 31, 2019: EUR 4 million higher (lower)). The hypothetical effect of EUR 23 million on profit or loss primarily results from the currency sensitivities EUR/USD: EUR 26 million, EUR/GBP: EUR -7 million, and EUR/CHF: EUR 4 million. If the euro had gained (lost) 10 % against all currencies at December 31, 2020, other financial income and the fair value of the hedging instruments before taxes would have been EUR 137 million higher (lower) (December 31, 2019: EUR 52 million higher (lower)). The hypothetical effect of EUR 137 million on profit or loss primarily results from the currency sensitivities EUR/USD: EUR 107 million and EUR/GBP: EUR 33 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 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. The debt position of T-Mobile US in U.S. dollars is primarily determined through fixed-income securities, largely with issuer cancellation rights. 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. Regular reports are submitted to the Board of Management and Supervisory Board.



Including derivative hedging instruments, an average of 44 % (2019: 57 %) of the debt position denominated in euros had a variable rate of interest in 2020. There were no significant fluctuations in the course of the reporting year. In U.S. dollars, – compared to 2019 – the average variable share decreased from 16 % to 8 %, mainly due to the business combination of T-Mobile US and Sprint and the issuing of new fixed-interest bonds.

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, however, changes in market interest rates affect the amount of interest payments. As a consequence, they 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, 2020, profit or loss before taxes would have been EUR 199 million lower (December 31, 2019: EUR 553 million). If the market interest rates had been 100 basis points lower at December 31, 2020, profit or loss before taxes would have been EUR 198 million higher (December 31, 2019: EUR 617 million). The hypothetical effect of EUR 198 million/EUR -199 million on income primarily results from potential effects of EUR 259 million/EUR -259 million from interest rate derivatives, and EUR 11 million/EUR -11 million from non-derivative financial liabilities. In addition, potential effects of EUR -75 million/EUR 75 million result from the stock options received from SoftBank and of EUR -4 million/EUR -5 million from the energy forward agreements entered into by T-Mobile US. Potential effects from interest rate derivatives are partially balanced out by the contrasting performance of non-derivative financial instruments, which cannot, however, be shown as a result of 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, 2020, the hedging and revaluation reserves in equity before taxes would have been EUR 271 million higher (EUR 271 million lower) (December 31, 2019: EUR 1,201 million higher (EUR 1,272 million lower)).

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.



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. If the share price of T-Mobile US had been 10 % higher (lower) at December 31, 2020, the fair value of the stock options to buy shares in T-Mobile US received from SoftBank would have been EUR 384 million higher (EUR 359 million lower).

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 an operational credit management system. At the level of operations, the outstanding debts are continuously monitored in each area, i.e., locally. Credit risks are taken into account through individual allowances and 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

millions of €			
Classes of financial instruments (IFRS 7)	Measurement category (IFRS 9)	2020	2019
Originated loans and other receivables	AC	4,733	4,282
	FVOCI	0	0
	FVTPL	203	121
Cash and cash equivalents	AC	13,012	5,392
Trade receivables	AC	6,128	5,452
	FVOCI	7,516	5,390
	FVTPL	0	4
Contract assets (IFRS 15)	n.a.	1,966	1,874
Lease receivables	n.a.	248	196

#### Development of allowances

millions of €													
				Gene	ral approach	1					Simplified	d approach	
	12-month ex	pected cred	it losses	Lifetime expected credit losses									
	Stage 1 – No since in	change in ci		Stage 2 – Sig credit risk sin not cr		ognition,	reporting da	edit-impaire te (not purch d credit-impa	ased or				
	Cash and cash equivalents	Originated loans and other receivables		Cash and cash equivalents	Originate and o receive	ther	Cash and cash equivalents	Originate and o receive	ther	Trade receivables		Contract assets	Lease assets
	AC	AC	FVOCI	AC	AC	FVOCI	AC	AC	FVOCI	AC	FVOCI	n.a.	n.a.
Jan. 1, 2020	0	(4)	0	0	0	0	0	(8)	0	(1,314)	(552)	(36)	0
Reclassification due to a change in business model										9		2	
Additions								(3)		(824)	(453)	(20)	
Use								(0)		596	707	5	
Reversal								1		166		10	
Other										54	18	1	
Foreign currency effect													
Dec. 31, 2020	0	(4)	0	0	0	0	0	(10)	0	(1,313)	(280)	(38)	0

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

millions of €								
		Dec. 31, 20	20			Dec. 31, 20	)19	
	Contractual obligations fulfilled to date	Disruptions in per- formance already occurred	Non- per- forming	Total	Contractual obligations fulfilled to date	Disruptions in per- formance already occurred	Non- per- forming	Total
General approach (short term)								
12-month expected credit losses (stage 1)	15,909			15,909	8,224			8,224
Lifetime expected credit losses								
Significant increase in credit risk, but not credit-impaired (stage 2)		158		158		103		103
Credit-impaired at the reporting date, but not purchased or originated credit-impaired (stage 3)	15,909	158	42 <b>42</b>	42 16,109	8,224	103	28 <b>28</b>	28 8,355
General approach (long term)	10,707	100	72	10,107	0,224	100	20	0,000
12-month expected credit losses (stage 1)	1,650			1,650	1,326			1,326
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)			0	0			0	0
	1,650	1	0	1,651	1,326	1	0	1,327
Simplified approach								
Trade receivables	13,379	489	1,080	14,948	11,083	434	1,159	12,676
Contract assets	1,994	8	8	2,010	1,901	1	7	1,909
Lease receivables	239	0	8	247	197			197
	15,612	497	1,096	17,205	13,181	435	1,166	14,782
Financial assets that are purchased or originated credit-impaired								
Receivables	11			11	4			4
	33,182	656	1,138	34,976	22,735	539	1,194	24,468

# Offsetting of financial instruments

millions of €								
		Dec. 3	1, 2020			Dec. 3	1, 2019	
	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	465	441	2.254	727	202	208	1,702	1 401
similar agreements  Amounts set off in the statement of financial position in accordance with IAS 32.42	(119)	(119)	2,254	727	(98)	(98)	1,702	1,491
Net amounts presented in the statement of financial position	346	322	2,254	727	104	110	1,702	1,491
Amounts subject to enforceable master netting arrangements or similar agreements and not meeting all offsetting requirements in accordance with IAS 32.42	(28)	(28)	(2,210)	(727)	(37)	(37)	(1,653)	(1,000)
Of which: amounts related to recognized financial instruments	(28)	(28)	(693)	(693)	(37)	(37)	(446)	(446)
Of which: amounts related to financial collateral (including cash collateral)			(1,517)	(34)			(1,207)	(554)
Net amounts	318	294	44	0	67	73	49	491



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 34 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 acquired from third parties for shares in a subsidiary of Deutsche Telekom or shares in other companies (see above).

In connection with auctions for the planned acquisition of spectrum licenses, subsidiaries of Deutsche Telekom have deposited additional cash collateral of EUR 446 million when translated into euros. At the reporting date, cash and cash equivalents of EUR 63 million when translated into euros were pledged as collateral for liabilities issued by Sprint with right of creditors to priority repayment in the event of default. For further information, please refer to Note 13 "Financial liabilities and lease liabilities." This cash collateral is not exposed to any significant credit risk.

Liquidity risk. 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-interest liabilities, Deutsche Telekom primarily uses interest rate swaps and forward interest rate swaps (pay variable, receive fixed) denominated in EUR, GBP, and USD. Fixed-income bonds denominated in EUR, GBP, and USD were designated as hedged items. The changes in the fair values of the hedged items resulting from changes in the EURIBOR, GBP LIBOR, or USD LIBOR 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 LIBOR and the GBP LIBOR swap rate as well as the USD and GBP exchange rate are offset against the changes in the fair value of these 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.

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 LIBOR 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.

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 2021 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 determined retrospectively in the form of a statistical regression analysis; for rolling foreign currency hedges the effectiveness is reviewed using the dollar offset test. All hedging relationships were sufficiently effective as of the reporting date.

**Hedging of a net investment.** 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 2020. The amounts recognized in total other comprehensive income would be reclassified in the event of the disposal of T-Mobile US.

#### Conditions of derivative financial instruments in hedging relationships

millions of €						
			20	21		
	Nominal amount	Average hedge rate	Average swap rate received	Average swap rate paid	Average margin paid	Average margin received
Fair value hedges						
Interest rate risk						
EURIBOR	638		0.4528 %	6M EURIBOR	0.2819 %	
USD LIBOR	230		1.9840 %	3M USD LIBOR	0.7430 %	
GBP LIBOR						
Cross-currency risk						
USD/EUR						
GBP/EUR						
Other						
Cash flow hedges						
Currency risk						
Buy						
USD/EUR	290	1.1414				
GBP/EUR	70	1.3156				
Other	17					
Sell						
USD/EUR	201	1.0967				
Other	3	1.0578				
Interest rate risk						
EURIBOR	610		6M EURIBOR	-0.2873 %		0.2678 %
USD LIBOR						



millions of €						
			2022-	-2025		
	Nominal amount	Average hedge rate	Average swap rate received	Average swap rate paid	Average margin paid	Average margin received
Fair value hedges						
Interest rate risk						
EURIBOR	6,575		0.7798 %	6M EURIBOR	0.3727 %	
USD LIBOR	835		2.5755 %	3M USD LIBOR	1.0465 %	
GBP LIBOR	334		1.2500 %	3M GBP LIBOR	0.7870 %	
Cross-currency risk						
USD/EUR						
GBP/EUR	339	0.8853	2.5000 %	3M EURIBOR	0.6485 %	
Other	79					
Cash flow hedges						
Currency risk						
Buy						
USD/EUR	207	1.1859				
GBP/EUR	770	0.9072	6.5000 %	6.5718 %		
Other	3					
Sell						
USD/EUR	408	1.2350				
Other	36	1.0578				
Interest rate risk						
EURIBOR	7,178		6M EURIBOR	-0.1543 %		0.3721 %
USD LIBOR	1,834		3M USD LIBOR	4.9861%		2.3938 %

millions of €						
			2026 and	thereafter		
	Nominal amount	Average hedge rate	Average swap rate received	Average swap rate paid	Average margin paid	Average margin received
Fair value hedges						
Interest rate risk						
EURIBOR	8,250		1.4714 %	6M EURIBOR	0.8146 %	
USD LIBOR	4,373		4.1460 %	3M USD LIBOR	1.6014 %	
GBP LIBOR	445		2.5590 %	6M GBP LIBOR	0.6477 %	
Cross-currency risk						
USD/EUR	1,557	1.1221	8.7500 %	3M EURIBOR	5.8751 %	
GBP/EUR	457	0.8758	3.1250 %	3M EURIBOR	1.2716 %	
Other	760					
Cash flow hedges						
Currency risk						
Buy						
USD/EUR	1,758	1.3566	8.7849 %	7.7858 %		
GBP/EUR	441	0.9122	7.9388 %	7.5811 %		
Other						
Sell						
USD/EUR	123	1.2359				
Other						
Interest rate risk						
EURIBOR						
USD LIBOR	1,223		3M USD LIBOR	4.7500 %		2.0707 %



EURIBOR

# $Nominal\ and\ carrying\ amounts\ of\ derivative\ financial\ instruments\ in\ hedging\ relationships$

millions of €			2020					2019			
	Nominal an the hed instrum	ging	the he	amount of edging ments		Nominal ar the hed instrum	lging	the he	amount of edging ments		
Enicualita	in foreign currencies	in euros	Financial assets	Financial liabilities	Change in value of the hedging instruments in the reporting period for determining ineffectiveness	in foreign currencies	in euros	Financial assets	Financial liabilities	Change in value of the hedging instruments in the reporting period for determining ineffectiveness	Disclosure of the hedging instruments in the statement of financial position
Fair value hedges											Other financial assets/
Interest rate risk		21,680	1,902	0	1,058		27,204	1,029	(39)	783	financial liabilities
Of which: EUR		15,463					20,268				
Of which: USD	6,671	5,438				6,865	6,114				
Of which: GPB	700	779				700	822				
Cross- currency risk		3,191	123	(52)	173		2,912	124	(26)	257	Other financial assets/ financial liabilities
Of which: USD	1,747	1,557				1,747	1,557				
Of which: GPB	700	796				700	796				
Of which: other		839					560				
Cash flow hedges		4.70/	10	(77)	(407)		7 705	4//	(40)	054	Other financial assets/ financial
risk Buy		4,326	12	(73)	(183)		3,725	166	(18)	251	liabilities
USD/EUR	2,880	2,255				2,580	2,008				
GBP/EUR	1,163	1,282				1,171	1,294				
Other		19					52				
Sell											
USD/EUR	895	732				416	371				
Other		38									Other financial assets/
Interest rate risk		10,845	9	(261)	(1,307)		22,739	120	(1,235)	(747)	financial liabilities
USD LIBOR	3,750	3,057				16,350	14,561				

8,178

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

7,788





## Disclosures on hedged items in hedging relationships

millions of €								
IIIIIIIOIIS OI E					Di-i	Balance of	Balance of	
					Remaining balance of			
		Carrying	Cumulative	Change in the	cumulative	amounts recognized in	amounts recognized in	
		amount of	adjustments	fair value of	adjustments	other	other	
		the hedged	to the	the hedged	to the	comprehensive	comprehensive	Presentation
		items		items for		income	income	of the
			carrying		carrying			
		(including cumulative	amount of the	determining ineffectiveness	amount of the de-	relating to	relating to	hedged items in the
						hedged risk	hedged risk	
		fair value	designated	in the	designated	(existing	(terminated	statement
		hedge	fair value	reporting	fair value	hedging	hedging	of financial
		adjustments)	hedges	period	hedges	relationships) <sup>a</sup>	relationships) <sup>a</sup>	position
Fair value hedges								Financial
Interest rate risk	2020	23,417	1,741	(1,044)	258	n.a.	n.a.	liabilities
	2019	28,019	857	(774)	304	n.a.	n.a.	=
Cross-currency	2020	3,219	188	(164)	0	n.a.	n.a.	=
risk	2019	2,981	24	(299)	0	n.a.	n.a.	=
Cash flow hedges								n.a.
Currency risk	2020	n.a.	n.a.	179	n.a.	132	8	
	2019	n.a.	n.a.	(244)	n.a.	83	8	
Interest rate risk	2020	n.a.	n.a.	1,267	n.a.	(198)	(2,008)	
	2019	n.a.	n.a.	727	n.a.	(1,140)	0	
Hedges of net								n.a.
investment								
Currency risk	2020	n.a.	n.a.	0	n.a.	794	n.a.	
	2019	n.a.	n.a.	0	n.a.	794	n.a.	=

 $<sup>^{\</sup>rm a}\,$  Figures include non-controlling interests.

## Gains/losses from hedge accounting

millions of €								
		Hedge ineffec- tiveness of existing hedging relationships recognized in profit or	Changes in fair value recognized directly in other compre- hensive	Amounts reclassified to profit or loss from other comprehensive income due to occurrence of the hedged items (designated hedging	Amounts reclassified to profit or loss from other comprehensive income due to occurrence of the hedged items (dedesignated hedging	Total change in other compre- hensive	Presentation of the reclassified effective amounts in	Presentation of the ineffectiveness
Fair value hedges		loss	income	relationships) <sup>a</sup>	relationships) <sup>a</sup>	income	profit or loss n.a.	in profit or loss Other financial
Interest rate risk	2020	14	n.a.	n.a.	n.a.	n.a.	11.a.	income
medicativate nak	2019	9	n.a.	n.a.	n.a.	n.a.	_	(expense)
Cross-currency risk	2020	9	n.a.	n.a.	n.a.	n.a.	-	
•	2019	(42)	n.a.	n.a.	n.a.	n.a.	-	
Cash flow hedges Currency risk	2020	(4)	(179)	229	0	50	Net revenue/	Other financial income
	2040	7	244	(447)	0	404	goods and services purchased/ other financial income	(expense)
1.1	2019	7	244	(143)	0	101	(expense)	_
Interest rate risk	2020 2019	(40) (20)	(1,267) (727)	38 (21)	163 16	(1,066) (732)	Interest expense	

 $<sup>^{\</sup>rm a}\,$  Negative amounts represent gains in the income statement.

The recorded ineffectiveness in the 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 €

	Cash flow he	edges	Hedges of net investment	Total designated		Total other
	Currency risk	Interest rate risk	Currency risk	risk components	Hedging costs <sup>b</sup>	comprehensive income
Balance at January 1, 2020	91	(1,141)	794	(256)	51	(205)
Changes recognized directly in equity	(179)	(1,267)	0	(1,446)	(29)	(1,475)
Reclassification to profit or loss due to occurrence of the hedged item	229	202	0	431	2	433
Balance at December 31, 2020	141	(2,206)	794	(1,271)	24	(1,247)

 $<sup>^{\</sup>rm a}\,$  Figures include non-controlling interests.

Derivatives. The following table shows the fair values of the various derivatives. A distinction is made depending on whether these are part of an effective hedging relationship as set out in IFRS 9 (fair value hedge, cash flow hedge, net investment hedge) or not. Other derivatives can also be embedded, i.e., a component of a composite instrument that contains a non-derivative host contract.

millions of €		1	
	Net carrying amounts Dec. 31, 2020	Net carrying amounts Dec. 31, 2019	
Assets		,	
Interest rate swaps			
Without a hedging relationship	22	6	
In connection with fair value hedges	1,902	1,029	
In connection with cash flow hedges	9	120	
Currency forwards/currency swaps			
Without a hedging relationship	15	49	
In connection with cash flow hedges	8	5	
Cross-currency swaps			
Without a hedging relationship	169	206	
In connection with fair value hedges	123	124	
In connection with cash flow hedges	3	161	
Other derivatives in connection with cash flow hedges	0	0	
Other derivatives without a hedging relationship	819	3	
Embedded derivatives	966	630	
Liabilities			
Interest rate swaps			
Without a hedging relationship	31	34	
In connection with fair value hedges	0	39	
In connection with cash flow hedges	261	1,235	
Currency forwards/currency swaps			
Without a hedging relationship	41	59	
In connection with cash flow hedges	28	4	
In connection with net investment hedges	0	0	
Cross-currency swaps			
Without a hedging relationship	264	78	
In connection with fair value hedges	52	26	
In connection with cash flow hedges	46	14	
Other derivatives in connection with cash flow hedges	0	0	
Other derivatives without a hedging relationship	13	7	
Embedded derivatives	129	146	

 $<sup>^{\</sup>mbox{\scriptsize b}}$  The hedging costs relate entirely to cross-currency basis spreads.



#### Transfer of financial assets

#### Factoring transactions with substantially all risks and rewards being transferred

Deutsche Telekom is party to several factoring agreements under which it sells current trade receivables on a revolving basis Under these agreements, Deutsche Telekom has the right to decide on a case-by-case basis whether and to what extent the revolving nominal volume will be used. Sales exceeding this amount must be agreed on a case-by-case basis. The risks relevant for the risk assessment with respect to the receivables sold are the credit risk and the late-payment risk, which are transferred to the buyer of the receivables in full in return for payment of a fixed purchase price discount. Losses relating to certain receivables are reimbursed up to a maximum amount under a credit insurance policy, which reduces the credit risk. The receivables sold until the reporting date were derecognized in full. At the derecognition date, the fixed purchase price discount is expensed. Deutsche Telekom continues to perform receivables credit management against payment for the receivables sold. For the disclosures on the receivables sold, please refer to the table below.

#### Factoring transactions involving the splitting of significant risks and rewards as well as the transfer of control

There is also a revolving factoring transaction in place under which a bank is required to purchase trade receivables from charges from sales of handsets payable over a period of up to two years. Deutsche Telekom has the right to decide on a case-by-case basis whether the revolving nominal volume will be used and to what extent. The risks relevant for the risk assessment with respect to the receivables sold are the credit risk and the late-payment risk. Deutsche Telekom bears credit risk-related losses from the various tranches up to a certain amount in each case; the other credit risk-related losses are borne by the bank. The late-payment risk is borne in full by Deutsche Telekom. Due to the allocation of the material risks between Deutsche Telekom and the bank, substantially all the risks and rewards of ownership of the receivables were neither transferred nor retained. Control of the receivables sold was transferred to the bank because it has the practical ability to resell the receivables. The bank has the right to sell all receivables overdue back to Deutsche Telekom. The purchase price corresponds to the nominal amount and is payable in the month following the buy-back. This does not affect the allocation of the credit risk-related losses, as the losses would be passed back to the bank in line with the agreed risk allocation. All receivables sold have been derecognized. At the derecognition date, the fair value of the expected losses is expensed as financial liabilities. Please refer to the table below for the disclosures on the continuing involvement resulting from the receivables sold.

## Factoring transactions involving the splitting of significant risks and rewards with control remaining at Deutsche Telekom

In addition, there are several factoring agreements in place under which Deutsche Telekom sells – on a revolving basis – 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.

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. They resell the receivables to a second structured entity in each case. Deutsche Telekom does not consolidate the two second structured entities because it has no control over these entities' relevant activities. In one of the transactions, the second structured entity resells the ownership interests in the receivables to two banks and a third structured entity on a pro rata basis. Deutsche Telekom does not consolidate this third structured entity either because it likewise does not control this entity's relevant activities. The structured entities not consolidated by Deutsche Telekom are financed by the external buyers of the receivables. In the other transaction, the second structured entity transfers the legal role of ownership of the receivables to a bank that performs this role on behalf of the investors who have beneficial ownership of the receivables (administrative agent). These investors are four banks and three other structured entities. Deutsche Telekom does not consolidate these three other structured entities either because it likewise has no control over these entities' relevant activities. The three other structured entities are financed through the issue of commercial paper to third parties outside the Group or, alternatively, through a credit facility provided by a bank.

In a third transaction, receivables are sold directly to a structured entity. This structured entity holds the receivables and allocates the risks and rewards resulting from these to Deutsche Telekom and a bank on the basis of contractual arrangements. It is financed through the issue of commercial paper to third parties outside the Group or, alternatively, through a credit facility provided by a bank. Deutsche Telekom does not consolidate the structured entity because it does not control the relevant activities.

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 all 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 would 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.

In other transactions, receivables are sold directly to buyers outside the Group without the involvement of structured entities. If more receivables are purchased in individual portfolios, the purchase price payment is deferred until the maximum program volume decreases further accordingly. In all those transactions, Deutsche Telekom has the right to decide whether receivables are sold and in which volume. In individual portfolios, receivables for which a write-off is imminent are sold back to Deutsche Telekom. Here the purchase price corresponds to the actual proceeds from collection or disposal and is payable after Deutsche Telekom receives these proceeds from collection or disposal. These buy-backs would affect neither the allocation of the credit risk-related losses nor Deutsche Telekom's liquidity situation. In one portfolio, the existing credit insurance reimburses losses relating to certain receivables to a specific maximum amount and thus reduces the exposure to loss.

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. Under the factoring agreements in which structured entities are engaged, buyers have the unilateral 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. In transactions with structured entities, 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. Expenses of EUR 348 million on a cumulative basis since commencement of the agreement were recognized for a factoring agreement terminated in the financial year.





## Transfer of financial assets

Cumulative since commencement of the agreement

millions of €					
	1		2020		
	Transfer of substantially all risks and rewards	Allocation of	substantially all risks	s and rewards	
		Transfer of control	Retention	of control	
		Partial transfer of the credit risk	Partial or full tran risk and full reter payme	ntion of the late-	
	Full transfer of the credit and late-payment risk	and retention of most of the late-payment risk	With the involvement of structured entities	Without the involvement of structured entities	Total
End of contract terms	2021-2022	2021	2021-2024	2022	
Contractual maximum volume	180	90	4,637	324	5,231
Purchase prices to be paid immediately	180	80	1,984	324	2,568
Volume of receivables sold as of the reporting date	94	61	2,677	297	3,129
Scope of volume of receivables sold in the reporting year	36-116	22-57	1,703-2,147	185-306	
Provision for receivables management	0	0	0	0	0
Continuing involvement					
Maximum credit risk (before credit insurance)	0	14	819	0	833
Credit insurance	27	0	0	23	50
Maximum late-payment risk	0	0	6	1	7
Carrying amount of the continuing involvement (asset side)	0	0	816	1	817
Carrying amount of the associated liability	0	0	825	1	826
Fair value of the associated liability	0	0	9	0	9
Buy-back agreements					
Nominal value of receivables that can be bought back at the nominal amount	0	61	2,562	0	2,623
Nominal value of receivables that can be bought back at the collected amount	0	0	116	0	116
Purchase price discounts recognized in profit or loss, program fees, and pro rata loss allocations					
Current reporting year	0	1	114	1	116

6

1,178

1,191

millions of €			2019		
	Transfer of substantially all risks and rewards	Allo		lly all risks and rewards	
		Transfer of control	Retention	of control	
		Partial transfer of the credit risk	Partial transfer of the credit risk and full retention of the late-payment risk		
	Full transfer of the credit and late-payment risk	and retention of most of the late-payment risk	With the involvement of structured entities	Without the involvement of structured entities	Total
End of contract terms	2021-2022	2021	2020-2023	2020-2022	
Contractual maximum volume	184	90	4,959	1,040	6,273
Purchase prices to be paid immediately	184	80	2,154	1,040	3,458
Volume of receivables sold as of the reporting date	91	42	3,007	1,101	4,241
Scope of volume of receivables sold in the reporting year	71–127	24-30	1,889-2,337	992-1,133	
Provision for receivables management	0	0	0	4	4
Continuing involvement					
Maximum credit risk (before credit insurance)		14	600	80	694
Credit insurance	27			23	50
Maximum late-payment risk		0	82	4	86
Carrying amount of the continuing involvement (asset side)		0	682	84	766
Carrying amount of the associated liability		0	733	118	851
Fair value of the associated liability		0	51	34	85
Buy-back agreements					
Nominal value of receivables that can be bought back at the nominal amount		42	2,887		2,929
Nominal value of receivables that can be bought back at the collected amount			120	840	960
Purchase price discounts recognized in profit or loss, program fees, and pro rata loss allocations					
Current reporting year	1	1	240	62	304
Cumulative since commencement of the agreement	4	5	1,064	350	1,423

## 42 Capital management

The overriding aim of Deutsche Telekom's capital management is to strike a balance between the contrasting expectations of the following stakeholders:

- 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 relative debt, i.e., net debt to adjusted EBITDA. This ratio stood at 2.78x at December 31, 2020 (December 31, 2019: 2.65x). Deutsche Telekom briefly exceeded the target corridor for relative debt of 2.25x to 2.75x on account of the business combination of T-Mobile US and Sprint. As announced in 2018, rating agency Standard & Poor's downgraded Deutsche Telekom AG's rating from BBB+ to BBB with a stable outlook on completion of the business combination of T-Mobile US and Sprint. We are therefore still a solid investment-grade company with access to the international capital markets. 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. 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 27.4 % as of December 31, 2020 (December 31, 2019: 27.1 %). The target corridor 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 " $\underline{\text{Management of the Group}}$ " and " $\underline{\text{Development of business in the Group}}$ ," in the combined management report.

millions of €				
	Dec. 31, 2020	Dec. 31, 2019	Change	Change %
Bonds and other securitized liabilities	87,702	51,644	36,058	69.8
Liabilities to banks	5,257	6,516	(1,259)	(19.3)
Other financial liabilities	14,149	8,189	5,960	72.8
Lease liabilities	32,715	19,835	12,880	64.9
Financial liabilities and lease liabilities	139,823	86,184	53,639	62.2
Accrued interest	(1,035)	(748)	(287)	(38.4)
Other	(703)	(739)	36	4.9
Gross debt	138,085	84,697	53,388	63.0
Cash and cash equivalents	12,939	5,393	7,546	n.a.
Derivative financial assets	4,038	2,333	1,705	73.1
Other financial assets	881	940	(59)	(6.3)
Net debt	120,227	76,031	44,196	58.1

## 43 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 31.9 % (December 31, 2019: 31.9 %) 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 requirements.

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 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 am 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 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 2020 financial year, Deutsche Telekom made payments in the amount of EUR 121 million (2019: EUR 146 million; 2018: EUR 123 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.

There are no material revenue, receivables, or liabilities from or to joint ventures and associates.

Related individuals. In the reporting period, expenses for short-term benefits payable to members of the Board of Management and the Supervisory Board amounted to EUR 20.5 million (2019: EUR 19.9 million) and expenses for other long-term benefits amounted to EUR 7.3 million (2019: EUR 4.4 million). Service cost of EUR 2.3 million (2019: EUR 2.4 million) was recorded for Board of Management benefits. In addition, expenses for share-based payment for Board of Management members were incurred in the amount of EUR 2.0 million (2019: EUR 2.0 million). No termination benefits were expensed in 2020 or 2019.

As of December 31, 2020, Deutsche Telekom recognized provisions for Board of Management and Supervisory Board compensation from short-term benefits of EUR 11.6 million (2019: EUR 11.4 million) and from other long-term benefits of EUR 14.3 million (2019: EUR 10.3 million). Furthermore, the present value of the defined benefit obligation (DBO) from the Board of Management pension amounts to EUR 28.0 million (2019: EUR 27.1 million).

The compensation of the Board of Management and the Supervisory Board totaled EUR 32.2 million in the reporting year (2019: EUR 29.0 million).

For further information, please refer to the "Compensation report" in the combined management report and Note 44 "Compensation of the Board of Management and the Supervisory Board."

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 salary 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.

## 44 Compensation of the Board of Management and the Supervisory Board

#### Compensation of the Board of Management

The presentation of the system used for compensation of the Board of Management and the disclosures required in accordance with § 314 (1) No. 6a sentences 5–8 HGB are a component of the combined management report.

## Board of Management compensation for the 2020 financial year

Total compensation of the members of the Board of Management for the 2020 financial year amounted to EUR 24.1 million (2019: EUR 23.3 million). This includes a total of 189,315 entitlements to matching shares with a fair value of EUR 2.5 million on the date granted (2019: EUR 2.7 million).

### Former members of the Board of Management

A total of EUR 8.5 million (2019: EUR 8.8 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 223.9 million (2019: EUR 213.4 million) were recognized for current pensions and vested rights to pensions for this group of persons and their surviving dependents.

#### Other

The Company has not granted any advances or loans to current or former Board of Management members, nor were any other financial obligations to the benefit of this group of people entered into.

#### Compensation of the Supervisory Board

The main features of the compensation system and the disclosure of the compensation of the individual members of the Supervisory Board are a component of the combined management report.

Total compensation of the members of the Supervisory Board for 2020 amounted to EUR 3,043,250 (plus VAT) and is comprised of fixed annual remuneration plus meeting attendance fees.

The Company has not granted any advances or loans to current or former Supervisory Board members, nor were any other financial obligations to the benefit of this group of people entered into.







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.

Declaration of Conformity

## 46 Events after the reporting period

**Issue of USD bonds by T-Mobile US.** On January 14, 2021, T-Mobile US issued three senior notes with a total volume of USD 3.0 billion (EUR 2.4 billion) with terms ending between 2026 and 2031 and bearing interest of between 2.250 % and 2.875 %. T-Mobile US intends to use the proceeds from the issuance of the senior notes for general business purposes, including the acquisition of additional spectrum and the ongoing refinancing of existing debt.

Agreed sale of T-Mobile Infra B.V. Deutsche Telekom and Cellnex Telecom S.A. signed a deal on January 21, 2021 to combine their respective Dutch mobile infrastructure subsidiaries. Under the deal, the Dutch cell tower company T-Mobile Infra B.V. will be sold to Digital Infrastructure Vehicle (DIV), a newly established investment company, which will be managed independently under the envisaged structure. The assets and liabilities of T-Mobile Infra B.V. are reported in Deutsche Telekom's consolidated financial statements as of December 31, 2020 under non-current assets and disposal groups held for sale and liabilities directly associated with non-current assets and disposal groups held for sale.

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

Acquisition of wireless assets in the United States. On February 1, 2021, the valuation process was completed of the wireless telecommunication assets of Shentel for which Sprint previously exercised an option to purchase.

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

#### 47 Auditor's fees and services in accordance with § 314 HGB

PricewaterhouseCoopers Gesellschaft mit beschränkter Haftung, Wirtschaftsprüfungsgesellschaft (PwC) Frankfurt/Main, member of the German Chamber of Public Accountants in Berlin, has audited the consolidated financial statements of Deutsche Telekom AG since the Company's listing in 1996. Following a change within PwC in 2015, Thomas Tandetzki has been the responsible auditor in charge at PwC.

The following table provides a breakdown of the auditor's professional fees recognized as expenses in the 2020 financial year:

millions of €	
	2020
Auditing services	15
Other assurance services	1
Tax advisory services	0
Other non-audit services	1
	17

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 relate primarily to the auditing of information systems and processes, as well as the issuing of comfort letters.

Other non-audit services mainly consist of professional services in connection with strategic projects.



# 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 16, 2021

Deutsche Telekom AG The Board of Management

Timotheus Höttges

Adel Al-Saleh Birgit Bohle Dr. Christian P. Illek Srini Gopalan

Thorsten Langheim Dominique Leroy Claudia Nemat