

Pillar 3 Report as of June 30, 2022

Content

4	Regulatory Framework Basis of Presentation	55	Credit risk and credit risk mitigation in the standardized approach
4	Basel 3 and CRR/CRD	55	Quantitative information on the use of the
4 5	MREL (SRMR/BRRD) and TLAC (CRR) ICAAP, ILAAP and SREP	55	standardized approach Standardized approach exposure by risk weight
5	New Definition of Default		before and after credit mitigation
5	Key metrics	58	Credit risk exposure and credit risk
7	Key metrics of own funds and eligible liabilities		mitigation in the internal-rating-based approach
9	Capital	58 58	Quantitative information on the use of the IRB approach Foundation IRB exposure
9	Development and composition of Own Funds	66 79 79	Advanced IRB exposure Total IRB exposure covered by credit derivatives Total IRB exposure covered by the use
15	Scope of application of the	83	of CRM techniques Development of credit risk RWA
.0	regulatory framework	83	Specialized lending and equity exposures in the banking book
15	Reconciliation of regulatory own funds to IFRS balance sheet		
16	IFRS 9 transitional arrangements on own funds and temporary treatment of unrealized gains and losses	85	Counterparty credit risk (CCR)
17 17	Main features of capital instruments Capital buffers	85	Estimate of alpha factor
17	Minimum capital requirements and additional	85 86	CCR exposures by model approach and development CCR exposures development
40	capital buffers	87	CCR CVA capital charge
18 23	Geographical distribution of credit exposures Institution specific countercyclical capital buffer	87	CCR exposures to central counterparties
23	Composition of own funds and eligible liabilities	88 89	CCR exposures in the standardized approach CCR exposures within the foundation IRBA
		92	CCR exposures within the advanced IRBA
20	Conital requirements	98 98	CCR exposures after credit risk mitigation Credit derivatives exposures
28	Capital requirements		Croan acritained exposures
28	Overview of RWA and capital requirements	99	Exposure to securitization positions
29	Leverage ratio	99 102	Banking and trading book securitization exposures Securitization exposures in the non-trading book and
31	Process used to manage the risk of excessive leverage		associated regulatory capital requirements – institution
32	Factors that had an impact on the leverage ratio in the first half of 2022	104	acting as originator or as sponsor Securitization exposures in the non-trading book and associated regulatory capital requirements – institution
33	Credit risk and credit risk mitigation	106	acting as investor Exposures securitized by the institution – Exposures in default and specific credit risk adjustments
33	General quantitative information on credit risk		
33	Residual maturity breakdown of credit exposure	108	Market risk
34 37	Quality of non-performing exposures by geography Credit quality of loans and advances to non-financial		Warker nek
38	corporations by industry Performing and non-performing exposures	108 108	Own funds requirements for market risk under the standardized approach Market Risk Standardized Approach
41	and related provisions Credit quality of performing and non-performing	108	Own funds requirements for market risk under the IMA
	exposures by past due days	108	Regulatory capital requirements for market risk
44	Development of non-performing loans and advances	109 110	Development of market risk RWA Other quantitative information for market risk under
44 45	Credit quality of forborne exposures Minimum loss coverage for non-performing exposure	1.10	the internal models approach
45 47	Collateral obtained by taking possession	110	Overview of Value-at-Risk Metrics
48	Exposures subject to measures applied in	111	Comparison of end-of-day VaR measures with one-day changes in portfolio's value
53	response to the COVID-19 pandemic General quantitative information on credit risk mitigation		one-day changes in portiono's value
53	Overview of credit risk mitigation techniques		

112 Exposure to interest rate risk in the banking book

Changes in the economic value of equity and net interest income

112 Liquidity risk

- Qualitative information on LCR
- 114 114
- Quantitative information on LCR The Net Stable Funding Ratio (NSFR)

List of tables 119

Regulatory framework

Basis of Presentation

This Pillar 3 Report provides disclosures for the consolidated Deutsche Bank Group (the Group) as required by the global regulatory framework for capital and liquidity, which was established by the Basel Committee on Banking Supervision, also known as Basel 3.

In the European Union (EU), the Basel 3 framework is implemented by the amended versions of "Regulation (EU) 575/2013 on prudential requirements for credit institutions and investment firms" (Capital Requirements Regulation or "CRR") and the "Directive (EU) 2013/36 on access to the activity of credit institutions and the prudential supervision of credit institutions and investment firms" (Capital Requirements Directive or "CRD"). As a single rulebook, the CRR is directly applicable to credit institutions and investment firms in the European Union and provides the grounds for the determination of regulatory capital requirements, regulatory own funds, leverage and liquidity as well as other relevant requirements. In addition, the CRD was implemented into German law by means of further amendments to the German Banking Act ("Kreditwesengesetz" or "KWG") and the German Solvency Regulation (SolvV) and accompanying regulations. Jointly, these laws and regulations represent the regulatory framework applicable in Germany.

The disclosure requirements are provided in Part Eight of the CRR and in Section 26a of the KWG. Further disclosure guidance has been provided by the European Banking Authority ("EBA") in its "Final draft implementing technical standards on public disclosures by institutions of the information referred to in Titles II and III of Part Eight of Regulation (EU) No 575/2013" (EBA ITS).

The information provided in this Pillar 3 Report is unaudited. Due to rounding, numbers presented throughout this document may not add up precisely to the totals The Group reports and percentages may not precisely reflect the absolute figures.

Basel 3 and CRR/CRD

The CRR/CRD lays the foundation for the calculation of the minimum regulatory requirements with respect to own funds and eligible liabilities, the Liquidity Coverage Ratio and the Net Stable Funding Ratio.

Regulation (EU) 2019/876 has introduced a minimum regulatory leverage ratio of 3 % determined as the ratio of Tier 1 capital and the regulatory leverage exposure. The binding leverage ratio is applicable since the reporting period ended June 30, 2021. The minimum regulatory leverage ratio of 3 % is increased if certain Euro-based exposures facing Eurosystem central banks are excluded from the leverage exposure. This was the case based on Decision (EU) 2021/1074 of the European Central Bank until March 31, 2022. From January 1, 2023 an additional leverage ratio buffer requirement of 50 % of the applicable Global Systemic Important Institutions (G-SII) buffer rate will apply. It is currently expected that this additional requirement will increase the leverage ratio requirement by 0.75 %.

There is still uncertainty as to how some of the CRR/CRD rules should be interpreted and there are still related binding Technical Standards for which a final version is not yet available. Thus, the Group will continue to refine assumptions and models in line with evolution of these regulations as well as the industry's understanding and interpretation of the rules. Against this background, current CRR/CRD measures may not be comparable to previous expectations. Also CRR/CRD measures may not be comparable with similarly labeled measures used by competitors as the Group's competitors' assumptions and estimates may differ from Deutsche Bank's.

MREL (SRMR/BRRD) and TLAC (CRR)

Banks in the European Union are required to meet at all times a Minimum requirement for own funds and eligible liabilities ("MREL") which ensures that banks have sufficient loss absorbing capacity in resolution to avoid recourse to taxpayers' money. Relevant laws are the Single Resolution Mechanism Regulation ("SRMR") and the Bank Recovery and Resolution Directive ("BRRD") as implemented through the German Recovery and Resolution Act (Sanierungs- und Abwicklungsgesetz, "SAG").

In addition and as required in the CRR, G-SIIs in Europe need to have at least the maximum of 18% plus the combined buffer requirement of their RWA and 6.75% of their LRE as Total Loss Absorbing Capacity ("TLAC").

Instruments which qualify for MREL and TLAC are own funds (Common Equity Tier 1, Additional Tier 1 and Tier 2) and certain eligible liabilities (mainly plain-vanilla unsecured bonds). Instruments qualifying for TLAC need to be fully subordinated to general creditor claims (e.g. senior non-preferred bonds). While this is not required for MREL, MREL regulations allow the Single Resolution Board ("SRB") to also set an additional "subordination" requirement within MREL (but separate from TLAC) against which only subordinated liabilities and own funds can be counted.

MREL is determined by the competent resolution authorities for each supervised bank individually and depending on the preferred resolution strategy. In the case of Deutsche Bank AG, MREL is determined by the SRB. While there is no statutory minimum level of MREL, the CRR, SRMR, BRRD and delegated regulations set out criteria which the resolution authority must consider when determining the relevant required level of MREL. Guidance is provided through an MREL policy published annually by the SRB. Any binding MREL ratio determined by the SRB is communicated to Deutsche Bank via the German Federal Financial Supervisory Authority (BaFin). Deutsche Bank AG received its current total MREL and current subordinated MREL requirement with immediate applicability in the second guarter 2022.

ICAAP, ILAAP and SREP

The internal capital adequacy assessment process ("ICAAP") as stipulated in Pillar 2 of Basel 3 requires banks to identify and assess risks, to apply effective risk management techniques and to maintain adequate capitalization. The Groups internal liquidity adequacy assessment process ("ILAAP") aims to ensure that sufficient levels of liquidity are maintained on an ongoing basis by identifying the key liquidity and funding risks to which the Group is exposed, by monitoring and measuring these risks, and by maintaining tools and resources to manage and mitigate these risks.

In accordance with Article 97 CRD supervisors regularly review, as part of the supervisory review and evaluation process ("SREP"), the arrangements, strategies, processes and mechanisms implemented by banks and evaluate: (a) risks to which the institution is or might be exposed; (b) risks the institution poses to the financial system; and (c) risks revealed by stress testing.

New Definition of Default

In the third quarter of 2021, the Group introduced the new definition of default, which consists of two EBA guidelines. One guideline comprises an EBA technical standard regarding the materiality threshold for credit obligations past due (implemented with ECB regulation (EU) 2018/1845) and the second guideline covers the application of the definition of default. Both of these new requirements are jointly referred to below as EBA Guidelines on definition of default. The EBA Guidelines on definition of default replaced the default definition under Basel II and is applied to all key risk metrics throughout this Report, including as a trigger to Stage 3 in the Groups IFRS 9 expected credit loss (ECL) model.

Key metrics

Article 447 (a-g) and Article 438 (b) CRR

In the following table EU KM1, Deutsche Bank provides key regulatory metrics and ratios as well as related input components as defined by CRR and CRD. They comprise own funds, RWAs, capital ratios, additional requirements based on SREP, capital buffer requirements, leverage ratio, liquidity coverage ratio and net stable funding ratio.

EU KM1 - Key metrics

	_	а	b	С	d	е
	in € m. (unless stated otherwise)	Jun 30, 2022	Mar 31, 2022	Dec 31, 2021	Sep 30, 2021	Jun 30, 2021
	Available own funds (amounts)					
1	Common Equity Tier 1 (CET 1) capital	47,932	46,687	46,506	45,633	45,476
2	Tier 1 capital	55,201	53,206	55,375	53,751	53,595
3	Total capital	65,246	63,093	62,732	61,203	61,128
	Risk weighted exposure amounts					
4	Total risk-weighted exposure amount	369,970	364,431	351,629	350,733	344,945
	Capital ratios (as percentage of risk.weighted					
	exposure amount)					
5	Common Equity Tier 1 ratio (%)	13.0	12.8	13.2	13.0	13.2
6	Tier 1 ratio (%)	14.9	14.6	15.7	15.3	15.5
7	Total capital ratio (%)	17.6	17.3	17.8	17.5	17.7
-	Additional own funds requirements based on					
	SREP (as a percentage of risk-weighted exposure					
	amount)					
E11.70	Additional own funds requirements to address	2.5	0.5	2.5	0.5	2.5
EU 7a	risks other than the risk of excessive leverage (%)	2.5	2.5	2.5	2.5	2.5
	of which:					
	to be made up of CET 1 capital (percentage	4.4	4.4	4.4	4.4	4.4
EU 7b	points)	1.4	1.4	1.4	1.4	1.4
E117-	to be made up of Tier 1 capital (percentage	4.0	4.0	4.0	4.0	4.0
EU 7c	points)	1.9	1.9	1.9	1.9	1.9
EU 7d	Total SREP own funds requirements (%)	10.5	10.5	10.5	10.5	10.5
	Combined buffer requirement (as a percentage of					
	risk-weighted exposure amount)					
8	Capital conservation buffer (%)	2.5	2.5	2.5	2.5	2.5
	Conservation buffer due to macro-prudential or					
	systemic risk identified at the level of a Member					
EU 8a	State (%)	0.0	0.0	0.0	0.0	0.0
	Institution specific countercyclical capital buffer					
9	(%)	0.02	0.02	0.03	0.02	0.0
EU 9a	Systemic risk buffer (%)	0.0	0.0	0.0	0.0	0.0
	Global Systemically Important Institution buffer					
10	(%)	1.5	1.5	1.5	1.5	1.5
EU 10a	Other Systemically Important Institution buffer (%)	2.0	2.0	2.0	2.0	2.0
11	Combined buffer requirement (%)	4.5	4.5	4.5	4.5	4.5
EU 11a	Overall capital requirements (%)	15.0	15.0	15.0	15.0	15.0
	CET 1 available after meeting the total SREP own					
12	funds requirements	26,066	24,507	25,738	24,376	24,909
	Leverage ratio ^{2 3}					
13	Leverage ratio total exposure measure	1,279,798	1,163,662	1,124,628	1,119,468	1,111,115
14	Leverage ratio (%)	4.3	4.6	4.9	4.7	4.7
	Additional own funds requirements to address					
	risks of excessive leverage (as a percentage of					
	leverage ratio total exposure amount)					
	Additional own funds requirements to address the					
EU 14a	risk of excessive leverage (%)	0.0	0.0	0.0	0.0	0.0
	of which: to be made up of CET 1 capital					
EU 14b	(percentage points)	0.0	0.0	0.0	0.0	0.0
EU 14c	Total SREP leverage ratio requirements (%)	3.0	3.2	3.2	3.2	3.2
	Leverage ratio buffer and overall leverage ratio	0.0		0.2	0.2	0.2
	requirement (as a percentage of total exposure					
	measure)					
EU 14d	Leverage ratio buffer requirement (%)	0.0	0.0	0.0	0.0	0.0
EU 14e	Overall leverage ratio requirements (%)	3.0	3.2	3.2	3.2	3.2
LU 146		3.0	5.2	5.2	3.2	3.2
	Liquidity Coverage Ratio					
15	Total high-quality liquid assets (HQLA) (Weighted	21F 490	210 440	210 604	220 467	224 606
15	value - average)	215,480	218,448	219,604	220,467	221,606
EU 16a	Cash outflows - Total weighted value	214,162	211,611	212,302	212,397	212,712
EU 16b	Cash inflows - Total weighted value	56,978	55,092	57,441	58,515	61,603
16	Total net cash outflows (adjusted value)	157,184	156,519	154,861	153,882	151,109
17	Liquidity coverage ratio (%)	137	140	142	143	147
	Net Stable Funding Ratio					
18	Total available stable funding	598,440	607,170	602,317	592,566	590,835
19	Total required stable funding	513,910	501,030	497,510	483,164	483,982
20	NSFR ratio (%) ¹	116	121	121	123	122

NSFR has been updated for June 30, 2021

Starting with the first quarter of 2022, the leverage ratio is presented as reported; the fully loaded definition has been discontinued in the first quarter 2022 due to immaterial difference; the comparative periods from June 30,2021 until December 31, 2021 continue to disclose the fully loaded numbers following EBA guidance and do not include the IFRS 9 transitional provision as per Article 473a of the CRR; the transitional impact amounted to € 23 million as of June 30, 2022, € 20 million as of March 31, 2022, € 39 million as of December 31, 2021, € 29 million as of September 30, 2021 and € 29 million as of June 30, 2021

Since April 1, 2022 Deutsche Bank no longer excludes certain central bank exposures, based on Article 429a (1) (n) CRR and the ECB Decision 2021/1074 as this temporary exemption during the COVID-19 pandemic ended on March 31, 2022. Not applying the temporary exclusion of certain central bank exposures, the leverage exposure was €

1,247 billion as of March 31, 2022, \in 1,223 billion as of December 31, 2021, \in 1,224 billion as of September 30, 2021 and \in 1,219 billion as of June 30, 2021; the corresponding leverage ratios were 4.3% as of March, 31, 2022, 4.5% as of December 31, 2021, 4.3% as of September 30, 2021 and 4.3% as of June 30, 2021

Key metrics of own funds and eligible liabilities

Article 447 (h) CRR and Article 45i(3)(a,c) BRRD

The table below provides summary information about Deutsche Bank Group's "Minimum requirement for own funds and eligible liabilities" ("MREL") and its "G-SII Requirement for own funds and eligible liabilities" ("TLAC").

EU KM2 – Key metrics - MREL and G-SII Requirement for own funds and eligible liabilities (TLAC)

,			irement for own eligible liabilities (MREL)		irement for own ligible liabilitites (TLAC)			
		а		b	С	d	е	f
in € m. (unless stated otherwise)	Jun 30, 2022	Mar 31, 2022	Jun 30, 2022	Mar 31, 2022	Dec 31, 2021	Sep 30, 2021	Jun 30, 2021
	Own funds and eligible liabilities,							
	ratios and components							
1	Own funds and eligible liabilities	124,242	119,408	114,690	110,007	109,094	108,721	108,145
			·				·	·
	Own funds and subordinated	1		-	-			
EU 1a	liabilities	114,690	110,007	_	_	_	_	_
	Total risk exposure amount of the							
2	resolution group (TREA)	369,970	364,431	369,970	364,431	351,629	350,733	344,945
	Own funds and eligible liabilities as	000,010	001,101	000,070	001,101	001,020	000,700	011,010
3	percentage of TREA	33.58	32.77	31.00	30.19	31.03	31.00	31.35
0	of which:	00.00	02.11	01.00	00.10	01.00	01.00	01.00
	Own funds and subordinated							·
EII 20	liabilities	24.00	20.40					
EU 3a		31.00	30.19					
	Total exposure measure of the							
4	resolution group (TEM)	1,279,798	1,163,662	1,279,798	1,163,662	1,124,667	1,119,497	1,111,144
	Own funds and eligible liabilities as							
5	percentage of TEM	9.71	10.26	8.96	9.45	9.70	9.71	9.73
	of which:							
	Own funds and subordinated							
EU 5a	liabilities	8.96	9.45					
	Does the subordination exemption							
	in Article 72b(4) of the CRR apply?							
6a	(5% exemption)	_	_	no	no	no	no	no
	Pro-memo item - Aggregate amount							
	of permitted non-subordinated							
	eligible liabilities instruments if the							
	subordination discretion as per							
	Article 72b(3) CRR is applied (max							
6b	3.5% exemption)	_	_	0	0	0	0	0
	Pro-memo item: If a capped					-	•	
	subordination exemption applies							
	under Article 72b (3) CRR, the							
	amount of funding issued that ranks							
	pari passu with excluded liabilities							
	and that is recognized under row 1,							
	divided by funding issued that ranks							
	pari passu with excluded Liabilities							
	and that would be recognized under							
6c	row 1 if no cap was applied (%)	_	_	0	0	0	0	0
-	Minimum requirement for own funds							
	and eligible liabilities (MREL)							
	MREL requirement expressed as	-		-				
EU 7	percentage of the TREA	24.89	24.05	_	_	_	_	_
<u>LO 1</u>		24.03	24.03				· 	
	of which:	-	-		-	-		-
=	to be met with own funds or							
EU 8	subordinated liabilities	20.28	20.27					
	MREL requirement expressed as							
EU 9	percentage of TEM	7.01	6.88					
	of which:							
	to be met with own funds or							
EU 10	subordinated liabilities	7.01	6.88		_	_		_

As of June 30, 2022 the MREL ratio was 33.58% as percentage of Total Risk Exposure Amount (TREA) compared to a requirement of 29.41% of TREA including the 4.52% combined buffer requirement, equalling a surplus of € 15.4 billion above

its MREL requirement. The subordinated MREL ratio was 31.00% as percentage of TREA compared to a requirement of 24.80% of TREA including the 4.52% combined buffer requirement. The subordinated MREL surplus is € 22.9 billion.

As of June 30, 2022 the TLAC ratio was 31.00% as percentage of TREA compared to a requirement of 22.52% including the 4.52% combined buffer requirement, resulting in a surplus of € 31.4 billion. TLAC as a percentage of TEM was 8.96% compared to a requirement of 6.75%, which corresponds to a surplus of € 28.3 billion.

Capital

Development and composition of Own Funds

Article 437 (a,d-f) CRR

Deutsche Bank's Total Regulatory capital as of June 30, 2022 amounted to € 65.2 billion compared to € 62.7 billion at the end of December 31, 2021. The Group's Tier 1 capital as of June 30, 2022 amounted to € 55.2 billion, consisting of a Common Equity Tier 1 (CET 1) capital of € 47.9 billion and Additional Tier 1 (AT1) capital of € 7.3 billion. The Tier 1 capital was € 0.2 billion lower than at the end of December 31, 2021 driven by decrease in AT1 capital of € 1.6 billion which is partially offset by an increase in CET 1 capital of € 1.4 billion.

The AT1 capital decrease of € 1.6 billion was mainly due to the redemption of AT1 capital instrument with a notional amount of € 1.75 billion during the first quarter of 2022 and € 0.6 billion grandfathered AT1 instruments not eligible from January 1, 2022 partially offset by a newly issued AT1 capital instrument with a notional amount of € 0.75 billion in the second quarter of 2022.

The CET 1 capital increase of 1.4 billion was mainly the result of the positive net profit of € 2.4 billion for the first half of 2022 which was partially offset by regulatory deductions for future common share dividend and AT1 coupon payments of € 0.5 billion which is in line with the ECB Decision (EU) (2015/656) on the recognition of interim or year-end profits in CET 1 capital in accordance with the Article 26(2) of Regulation (EU) No 575/2013 (ECB/2015/4). Additional increases include the positive effects from currency translation adjustments of € 1.3 billion net of foreign exchange counter-effects of capital deduction items of € 0.2 billion

These positive impacts were partly offset by deductions from equity compensation of \in 0.3 billion, share buyback of \in 0.3 billion, unrealized losses from financial instruments at fair value through other comprehensive income of \in 0.6 billion driven mainly by rising EUR and USD interest rates and increased regulatory adjustments from prudential filters of \in 0.4 billion (additional value adjustments) predominantly from market price dispersions and risk profile changes.

Starting with the first quarter of 2022, CET1, Tier 1 Capital and Total Capital is presented as reported. The fully loaded definition has been discontinued in the first quarter 2022 due to immaterial differences.

EU CC1 – Composition of regulatory own funds

EU CC	C1 – Composition of regulatory own funds			
		Jun 30, 2022	Dec 31, 2021	Refe-
	in € m.	CRR/CRD	CRR/CRD	rences ¹
	Common Equity Tier 1 (CET 1) capital: instruments and reserves			
1	Capital instruments, related share premium accounts and other reserves of which: Instrument type 1 (ordinary shares) ²	45,262 45,262	45,864 45,864	A A
	of which: Instrument type 1 (ordinary shares)	43,202	45,004	^
	of which: Instrument type 3	0	0	
2	Retained earnings	12,347	10,506	В
3	Accumulated other comprehensive income (loss), net of tax	78	(444)	С
3a	Funds for general banking risk	0	0	
	Amount of qualifying items referred to in Art. 484 (3) and the related share premium accounts	0	0	
<u>4</u> 5	subject to phase-out from CET 1	1.010	0	
	Minority interests (amount allowed in consolidated CET 1)	1,010	1,379	В
5a 6	Independently reviewed interim profits net of any foreseeable charge or dividend ³ Common Equity Tier 1 (CET 1) capital before regulatory adjustments	60,536	58,215	В
	Common Equity Tier 1 (CET 1) capital: regulatory adjustments	(0.040)	(1.010)	
7	Additional value adjustments (negative amount) ⁴	(2,212)	(1,812)	
8	Goodwill and other intangible assets (net of related tax liabilities) (negative amount) Deferred tax assets that rely on future profitability excluding those arising from temporary	(5,015)	(4,897)	D
	differences (net of related tax liabilities where the conditions in Art. 38 (3) are met) (negative			
10	amount)	(1,885)	(1,466)	Е
-	Fair value reserves related to gains or losses on cash flow hedges of financial instruments that are			
11	not valued at fair value	372	42	
12	Negative amounts resulting from the calculation of expected loss amounts	(450)	(573)	
13	Any increase in equity that results from securitized assets (negative amount)	(0)	(0)	
14	Gains or losses on liabilities designated at fair value resulting from changes in own credit standing ⁵	(109)	(56)	
15	Defined benefit pension fund assets (net of related tax liabilities) (negative amount)	(1,341)	(991)	F
16	Direct, indirect and synthetic holdings by an institution of own CET 1 instruments (negative amount) ⁶	0	0	
16	Direct, indirect and synthetic holdings of the CET 1 instruments of financial sector entities where	0		
	those entities have reciprocal cross holdings with the institution designed to inflate artificially the			
17	own funds of the institution (negative amount)	0	0	
	Direct, indirect and synthetic holdings by the institution of the CET 1 instruments of financial sector			
	entities where the institution does not have a significant investment in those entities (amount above			
18	10 % threshold and net of eligible short positions) (negative amount) ⁷	0	0	
	Direct, indirect and synthetic holdings by the institution of the CET 1 instruments of financial sector			
10	entities where the institution has a significant investment in those entities (amount above 10 %	0	0	
19	threshold and net of eligible short positions) (negative amount) Exposure amount of the following items which qualify for a risk weight of 1,250 %, where the			
20a	institution opts for the deduction alternative	0	0	
	of which:			
20b	Qualifying holdings outside the financial sector (negative amount)	0	0	
20c	Securitization positions (negative amount)	0	0	
20d	Free deliveries (negative amount)	0	0	
04	Deferred tax assets arising from temporary differences (amount above 10 % threshold, net of	0	(4.54)	_
21 22	related tax liabilities where the conditions in Article 38 (3) are met) (negative amount) Amount exceeding the 17.65 % threshold (negative amount)	0	(151)	E_
22	of which:	U	0	
	Direct, indirect and synthetic holdings by the institution of the CET 1 instruments of financial			
23	sector entities where the institution has a significant investment in those entities	0	0	
25	Deferred tax assets arising from temporary differences	0	0	E
25a	Losses for the current financial year (negative amount)	0	0	
	Foreseeable tax charges relating to CET 1 items except where the institution suitably adjusts the			
OFh	amount of CET 1 items insofar as such tax charges reduce the amount up to which those items	0	0	
25b 27	may be used to cover risks or losses (negative amount) Qualifying AT1 deductions that exceed the AT1 items of the institution (negative amount)	0	0	
27a	Other regulatory adjustments (including IFRS 9 transitional adjustments when relevant) ⁸	(1,964)	(1,805)	
28	Total regulatory adjustments to Common Equity Tier 1 (CET 1) capital	(12,604)	(11,709)	
29	Common Equity Tier 1 (CET 1) capital	47,932	46,506	
	In A control of the Asset of	,,,,,,	,	
_	Additional Tier 1 (AT1) capital: instruments			
30	Capital instruments and the related share premium accounts	7,328	8,328	G
	of which:			
31	Classified as equity under applicable accounting standards	7,328	8,328	G
32	Classified as liabilities under applicable accounting standards	0	0	
22	Amount of qualifying items referred to in Article 484 (4) and the related share premium accounts	0	600	
33	subject to phase out from AT1 as described in Article 486(3) of CRR of which:	0	600	H
EU 33a		0	600	
EU 33b		0	0	

		Jun 30, 2022	Dec 31, 2021	
	in € m.	CRR/CRD	CRR/CRD	Refe- rences ¹
	Qualifying Tier 1 capital included in consolidated AT1 capital issued by subsidiaries and held by		ONTO	1011000
34 35	third parties of which: instruments issued by subsidiaries subject to phase out	0 0	0	
36	Additional Tier 1 (AT1) capital before regulatory adjustments	7,328	8,928	
	· , , , , , , , , , , , , , , , , , , ,			
37	Additional Tier 1 (AT1) capital: regulatory adjustments Direct, indirect and synthetic holdings by an institution of own AT1 instruments (negative amount)	(60)	(60)	G
31	Direct, indirect and synthetic holdings by an institution of own ATT institutions (negative amount)	(00)	(00)	
	entities have reciprocal cross holdings with the institution designed to inflate artificially the own			
38	funds of the institution (negative amount) Direct, indirect and synthetic holdings of the AT1 instruments of financial sector entities where the	0	0	
	institution does not have a significant investment in those entities (amount above the 10 %			
39	threshold and net of eligible short positions) (negative amount) ⁷	0	0	
	Direct, indirect and synthetic holdings by the institution of the AT1 instruments of financial sector entities where the institution has a significant investment in those entities (amount above the 10 %			
40	threshold net of eligible short positions) (negative amount)	0	0	
42	Qualifying T2 deductions that exceed the T2 items of the institution (negative amount)	0	0	
42a	of which: Other regulatory adjustments to AT1 capital	0	0	
43 44	Total regulatory adjustments to Additional Tier 1 (AT1) capital Additional Tier 1 (AT1) capital	7,268	(60) 8,868	
45	Tier 1 capital (T1 = CET 1 + AT1)	55,201	55,375	
	Tier 2 (T2) capital: instruments and provisions			
46	Capital instruments and the related share premium accounts ⁹	10,091	7,402	
47	Amount of qualifying items referred to in Article 484 (5) and the related share premium accounts subject to phase out from T2 as described in Article 486(4) of CRR	30	30	1
	of which:			
EU 47a	(, , , ,	0	0	
EU 47b	Amount of qualifying items referred to in Article 494b (2) subject to phase out from T2 Qualifying own funds instruments included in consolidated T2 capital issued by subsidiaries and	30	30	
48	held by third parties	4	5	1
49	of which: instruments issued by subsidiaries subject to phase out	0	0	
50	Credit risk adjustments	0	0	
51	Tier 2 (T2) capital before regulatory adjustments	10,125 ¹²	7,438 ¹²	
	Tier 2 (T2) capital: regulatory adjustments			
	Direct, indirect and synthetic holdings by an institution of own T2 instruments and subordinated			
52	loans (negative amount)	(80)	(80)	
	Direct, indirect and synthetic holdings of the T2 instruments and subordinated loans of financial sector entities where those entities have reciprocal cross holdings with the institution designed to			
53	inflate artificially the own funds of the institution (negative amount)	0	0	
	Direct, indirect and synthetic holdings of the T2 instruments and subordinated loans of financial			
54	sector entities where the institution does not have a significant investment in those entities (amount above 10 % threshold and net of eligible short positions) (negative amount) ⁷	0	0	
<u> </u>	Direct, indirect and synthetic holdings by the institution of the T2 instruments and subordinated			
	loans of financial sector entities where the institution has a significant investment in those entities			
55	(net of eligible short positions) (negative amount) Qualifying eligible liabilities deductions that exceed the eligible liabilities items of the institution	0	0	
56a	(negative amount)	0	0	
56b	Other regulatory adjustments to T2 capital	0	0	
57	Total regulatory adjustments to Tier 2 (T2) capital	(80)	(80)	
58 59	Tier 2 (T2) capital Total capital (TC = T1 + T2)	10,045 ¹² 65,246 ¹²	7,358 ¹² 62,732 ¹²	
60	Total risk-weighted assets	369,970	351,629	
00	Capital ratios and buffers	555,575	001,020	
61	Common Equity Tier 1 capital ratio (as a percentage of risk-weighted assets)	13.0	13.2	
62	Tier 1 capital ratio (as a percentage of risk-weighted assets)	14.9	15.7	
63	Total capital ratio (as a percentage of risk-weighted assets) Institution CET 1 overall capital requirement (CET 1 requirement in accordance with article 92 (1) of	17.6	17.8	
	Regulation (EU) No 575/2013, plus additional CET 1 requirement which the institution is required to			
	hold in accordance with Article 104(1)(a) of Directive 2013/36/EU, plus combined buffer			
64	requirement in accordance with Article 128(6) of Directive 2013/36/EU) expressed as a percentage of risk exposure amount) ¹⁰	10.4	10.4	
٠.	of which:	10.1	10.1	
65	Capital conservation buffer requirement	2.5	2.5	
66 67	Countercyclical buffer requirement Systemic risk buffer requirement	0.02 0.0	0.03 0.0	
O1	Global Systemically Important Institution (G-SII) or Other Systemically Important Institution (O-	0.0	0.0	
67a	SII) buffer	2.0	2.0	
67b	additional own funds requirements to address the risks other than the risk of excessive leverage	1.4	1.4	
68	Common Equity Tier 1 capital available to meet buffers (as a percentage of risk-weighted assets) ¹¹	7.0	7.3	

		Jun 30, 2022	Dec 31, 2021	
	in € m.	CRR/CRD	CRR/CRD	Refe- rences ¹
	Amounts below the thresholds for deduction (before risk weighting)			
72	Direct, indirect and synthetic holdings of the capital of financial sector entities where the institution does not have a significant investment in those entities (amount below 10 % threshold and net of eligible short positions) ⁷	2,893	2,847	
73	Direct, indirect and synthetic holdings by the institution of the CET 1 instruments of financial sector entities where the institution has a significant investment in those entities (amount below 10 % threshold and net of eligible short positions)	944	878	
75	Deferred tax assets arising from temporary differences (amount below 10 % threshold, net of related tax liability where the conditions in Article 38 (3) CRR are met)	4,747	4,846	
	Applicable caps on the inclusion of provisions in Tier 2 capital			
76	Credit risk adjustments included in T2 in respect of exposures subject to standardized approach (prior to the application of the cap)	0	0	
77	Cap on inclusion of credit risk adjustments in T2 under standardized approach	257	256	
78	Credit risk adjustments included in T2 in respect of exposures subject to internal ratings-based approach (prior to the application of the cap)	0	0	
79	Cap for inclusion of credit risk adjustments in T2 under internal ratings-based approach	1,329	1,240	
	Capital instruments subject to phase-out arrangements			
80	Current cap on CET 1 instruments subject to phase out arrangements	0	0	
81	Amount excluded from CET 1 due to cap (excess over cap after redemptions and maturities)	0	0	
82	Current cap on AT1 instruments subject to phase out arrangements	0	1,253	
83	Amount excluded from AT1 due to cap (excess over cap after redemptions and maturities)	0	0	
84	Current cap on T2 instruments subject to phase out arrangements	0	338	
85	Amount excluded from T2 due to cap (excess over cap after redemptions and maturities)	0	0	-

N/M - Not meaningful

5 Represents gains and losses on liabilities and derivative liabilities carried at fair value that are a result of changes in own credit of the Group according to Article 33 (1) (b) CRR

⁶ Excludes holdings that are already considered in the accounting base of Common Equity

⁹ Amortization is taken into account ¹⁰ Includes CET1 Pillar 2 Requirement.

12 Includes € 30 million of instruments that qualify as Tier 2 instruments according to Article 494b (2) CRR

Difference to regulatory balance sheet driven by regulatory adjustments as set out in Articles 62 to 71 CRR (e.g. amortization, minority interest)

¹ References provide the mapping of regulatory balance sheet items used to calculate regulatory capital as reflected in the column "References" and as presented in tables "EU CC2 – Reconciliation of regulatory own funds to balance sheet in the audited financial statements". Where applicable, more detailed information is provided in the respective

² Based on EBA list of Article 26(3) of CRR, competent authorities shall evaluate whether issuances of Common Equity Tier 1 instruments meet the criteria set out in Article 28 or, where applicable, Article 29

or, where applicable, Article 29

3 Interim profits are recognized as per ECB Decision (EU) 2015/656 in accordance with the Article 26(2) of Regulation (EU) No 575/2013 (ECB/2015/4)

4 The € 2.2 billion (December 2021: € 1.8 billion) additional value adjustments were derived from the EBA Regulatory Technical Standard on prudent valuation and are before consideration of a benefit from the related reduction of the shortfall of provisions to expected losses of € 0.1 billion (December 2021: € 0.1 billion)

⁷ Based on the Group's current interpretation no deduction amount expected
8 Includes capital deductions of 1.1 billion (December 2021: € 1.1 billion) based on ECB guidance on irrevocable payment commitments related to the Single Resolution Fund and the Deposit Guarantee Scheme, € 0.8 billion (December 2021: € 0.7 billion) based on ECB's supervisory recommendation for a prudential provisioning of non-performing exposures, € 5 million (December 2021: € 17 million) resulting from minimum value commitments as per Article 36 (1)(n) of the CRR and CET 1 decrease of € 23 million (December 2021: € 17 million) resulting from minimum value commitments as per Article 36 (1)(n) of the CRR and CET 1 decrease of € 23 million (December 2021: € 17 million) resulting from minimum value commitments as per Article 36 (1)(n) of the CRR and CET 1 decrease of € 23 million (December 2021: € 17 million) resulting from minimum values commitments as per Article 36 (1)(n) of the CRR and CET 1 decrease of € 23 million (December 2021: € 17 million) resulting from minimum values commitments as per Article 36 (1)(n) of the CRR and CET 1 decrease of € 23 million (December 2021: € 17 million) resulting from minimum values commitments as per Article 36 (1)(n) of the CRR and CET 1 decrease of € 23 million (December 2021: € 17 million) resulting from minimum values commitments as per Article 36 (1)(n) of the CRR and CET 1 decrease of € 23 million (December 2021: € 17 million) resulting from minimum values commitments as per Article 36 (1)(n) of the CRR and CET 1 decrease of € 23 million (December 2021: € 17 million) resulting from minimum values commitments as per Article 36 (1)(n) of the CRR and CET 1 decrease of € 23 million (December 2021: € 17 million) resulting from minimum values commitments as per Article 36 (1)(n) of the CRR and CET 1 decrease of € 23 million (December 2021: € 17 million) resulting from minimum values commitments as per Article 36 (1)(n) of the CRR and CET 1 decrease of € 23 million (December 2021: € 17 million) resulti (December 2021: € 39 million) from IFRS 9 transitional provision as per Article 473a of the CRR

Calculated as the CET1 Capital less the Group's CET1 capital requirements in accordance with article 92(1)(a) of Regulation (EU) No 575/2013 and following Article 104(1)(a) of Directive 2013/36/EU, and less any Common Equity Tier 1 items used by the Group to meet its additional Tier 1 and Tier 2 capital requirements. June 2021 numbers have been restated accordingly

A Common shares, additional paid-in capital and common shares in treasury reflect regulatory eligible CET 1 capital instruments

B The position retained earnings in the regulatory balance sheet includes net income (loss) attributable to Deutsche Bank shareholders and additional equity components of € 2,365 million (December 2021: € 2,365 million). This item is excluded from the position retained earnings in the Own funds template (incl. RWA and capital ratios) and shown separately along with accrual for dividend and AT1 coupons of € (527) million (December 2021: € (987) million) the position independently reviewed interim profits net of any foreseeable charge or dividend

To Difference to regulatory balance sheet position driven by prudential filters for unrealized gains and losses

Provided to Regulatory applicable amount is goodwill and other intangible assets of €7,154 million (December 2021: €6,824 million) plus goodwill from equity method investments of €81 million (December 2021: €78 million) as per regulatory balance sheet reduced by deferred tax liabilities on other intangibles of €516 million (December 2021: €423 million) and prudent software assets as per Art. 36 (1) (b) CRR of €1,704 million (December 2021: €1,581 million)

E Differences to balance sheet position mainly driven by adjustments as set out in Article 38 (2) to (5) CRR (e.g. regulatory offsetting requirements)

F Regulatory applicable amount is defined benefit pension fund assets of € 1,533 million (December 2021: € 1,209 million) reduced by deferred tax liabilities on defined benefit pension fund assets of € 192 million (December 2021: € 218 million)

^G Additional equity components reflects regulatory eligible AT1 capital instruments

H Difference to regulatory balance sheet driven by regulatory adjustments as set out in Articles 51 to 61 CRR (e.g. current cap on AT1 instruments subject to phase-out arrangements)

Reconciliation of shareholders' equity to Own Funds

<u>in</u> € m.	Jun 30, 2022	Dec 31, 2021
Total shareholders' equity per accounting balance sheet	59,788	58,027
Deconsolidation/Consolidation of entities	265	265
of which:		
Additional paid-in capital	0	0
Retained earnings	265	265
Accumulated other comprehensive income (loss), net of tax	0	0
Total shareholders' equity per regulatory balance sheet	60,053	58,292
Minority Interests (amount allowed in consolidated CET 1)	1,010	910
AT1 coupon and shareholder dividend deduction ¹	(527)	(987)
Common Equity Tier 1 (CET 1) capital before regulatory adjustments	60,536	58,215
Prudential filters	(1,948)	(1,825)
of which:		
Additional value adjustments	(2,212)	(1,812)
Any increase in equity that results from securitized assets	(0)	(0)
Fair value reserves related to gains or losses on cash flow hedges and gains or losses on liabilities designated at		
fair value resulting from changes in own credit standing	263	(14)
Regulatory adjustments	(10,655)	(9,884)
of which:		
Goodwill and other intangible assets (net of related tax liabilities) (negative amount)	(5,015)	(4,897)
Deferred tax assets that rely on future profitability	(1,885)	(1,617)
Negative amounts resulting from the calculation of expected loss amounts	(450)	(573)
Defined benefit pension fund assets (net of related tax liabilities) (negative amount)	(1,341)	(991)
Direct, indirect and synthetic holdings by the institution of the CET 1 instruments of financial sector entities where		
the institution has a significant investment in those entities	0	0
Other ²	(1,964)	(1,805)
Common Equity Tier 1 capital	47,932	46,506
Additional Tier 1 capital	7,268	8,868
Additional Tier 1 Notes (AT1 Notes)	7,268	8,268
Per balance sheet	7,328	8,305
Deconsolidation/Consolidation of entities	0	0,000
Regulatory adjustments to balance sheet position	(60)	(37)
Hybrid capital securities	03	600
Per balance sheet	521	528
Deconsolidation/Consolidation of entities	0	0
Regulatory adjustments to balance sheet position	(521)	72
Other regulatory adjustments	0	0
Deductions from Additional Tier 1 capital	0	0
Tier 1 capital	55,201	55,375
Tier 2 capital	10,045	7,358
Subordinated debt	10.045	7,358
Per balance sheet	11,658	8,896
Deconsolidation/Consolidation of entities	0	0,000
Regulatory adjustments to balance sheet position	(1,613)	(1,538)
of which:	(1,010)	(1,000)
Amortization according to Art. 64 CRR	(1,664)	(1,221)
Other	(1,004)	(318)
Other regulatory adjustments	0	0
Deductions from Tier 2 capital	0	0
1 2		
Total capital	65,246	62,732

Interim profits are recognized as per ECB Decision (EU) 2015/656 in accordance with the Article 26(2) of Regulation (EU) No 575/2013 (ECB/2015/4)

Includes capital deductions of € 1.1 billion (Dec 2021: € 1.1 billion) based on ECB guidance on irrevocable payment commitments related to the Single Resolution Fund and the Deposit Guarantee Scheme, € 0.8 billion (Dec 2021: € 0.7 billion) based on ECB's supervisory recommendation for a prudential provisioning of non-performing exposures € 5 million (Dec 2021: € 17 million) resulting from minimum value commitments as per Article 36 (1)(n) of the CRR and CET 1 decrease of € 23 million (Dec 2021: € 39 million) from IFRS 9 transitional provision as per Article 473a of the CRR

Excludes €600 million AT1 instruments from January 01, 2022 since they do not fulfil the definition in Art. 52 CRR

Development of Own Funds

in € m.	six months ended Jun 30, 2022	six months ended Dec 31, 202
Common Equity Tier 1 (CET 1) capital - opening amount	46,506	45,476
Common shares, net effect of which:	0	(
New shares issued (+) Shares retired (–)	0	(
Additional paid-in capital	(213)	119
Retained earnings	2,828	807
of which:	2,020	007
Actuarial gains (losses) rel. to defined benefit plans, net of tax and Currency Translation Adjustment (CTA)	360	238
Net income attributable to Deutsche Bank Shareholders	2,365	569
Common shares in treasury, net effect/(+) sales (-) purchase	(390)	2:
Movements in accumulated other comprehensive income	522	51
of which:	022	0
Foreign currency translation, net of tax	1,316	65
Unrealized gains and losses	(567)	(10
Other	(227)	(4
AT1 coupon and shareholder dividend deduction ¹ of which:	(527)	(34
Gross dividends (deduction)	(450)	(11
Shares issued in lieu of dividends (add back)	0	
Gross AT1 coupons (deduction)	(77)	(22
Additional value adjustments	(400)	(9
Goodwill and other intangible assets (net of related tax liabilities) (negative amount)	(118)	(18
Deferred tax assets that rely on future profitability (excluding those arising from temporary differences)	(419)	6
Negative amounts resulting from the calculation of expected loss amounts Removal of gains/losses resulting from changes in own credit standing in liabilities	123	8)
designated at fair value (net of tax)	(53)	1
Defined benefit pension fund assets (net of related tax liabilities) (negative amount) Direct, indirect and synthetic holdings by the institution of the CET 1 instruments of financial sector entities	(349)	(10
where the institution has a significant investment in those entities	0	
Securitization positions not included in risk-weighted assets	0	
Deferred tax assets arising from temporary differences (amount above 10 % and 15 % threshold,		
net of related tax liabilities where the conditions in Art. 38 (3) CRR are met)	151	(15
Other, including regulatory adjustments	271	45
common Equity Tier 1 (CET 1) capital - closing amount	47,932	46,50
dditional Tier 1 (AT1) capital - opening amount	8,268 ²	8,11
New Additional Tier 1 eligible capital issues	725	1,24
Matured and called instruments	(1,750)	(50
Transitional arrangements	(1,1.00)	(00
of which:	· ·	
Amount excluded from Additional Tier 1 capital due to cap	0	
Goodwill and other intangible assets (net of related tax liabilities)	0	
Negative amounts resulting from the calculation of expected loss amounts	0	
Direct, indirect and synthetic holdings by the institution of the CET 1 instruments of financial sector		
entities where the institution has a significant investment in those entities	0	
Other, including regulatory adjustments	25	
additional Tier 1 (AT1) capital - closing amount	7,268	8,86
ier 1 capital (T1 = CET 1 + AT1)	55,201	55,37
ier 2 (T2) capital - opening amount	7,358	7,53
New Tier 2 eligible capital issues	2,652	
Matured and called instruments	0	
Amortization adjustments	(444)	(39
Transitional arrangements of which:	0	
Inclusion of amount excluded from Additional Tier 1 capital due to cap	0	
Amount to be deducted from or added to Additional Tier 2 capital with regard to		
additional filters and deductions required pre-CRR	0	
Negative amounts resulting from the calculation of expected loss amounts	0	
Direct, indirect and synthetic holdings by the institution of the CET 1 instruments of financial sector		
entities where the institution has a significant investment in those entities	0	
Other, including regulatory adjustments	479	21
ier 2 (T2) capital - closing amount	10,045	7,35

¹ Interim profits are recognized as per ECB Decision (EU) 2015/656 in accordance with the Article 26(2) of Regulation (EU) No 575/2013 (ECB/2015/4) 2 Excludes €600 million AT1 instruments from January 01, 2022 since they do not fulfil the definition in Art. 52 CRR

Scope of application of the regulatory framework

Reconciliation of regulatory own funds to IFRS balance sheet

Article 437 (a) CRR

The table below highlights the difference in the basis of consolidation for accounting and prudential reporting purposes as it compares the carrying values as reported under IFRS with the carrying values under the scope of the regulatory consolidation. References in the last column of the table provide the mapping of regulatory balance sheet items used to calculate regulatory capital. The reference columns presented below reconcile to the reference columns as presented in the template "EU CC1–Composition of regulatory own funds".

EU CC2 - Reconciliation of regulatory own funds to balance sheet in the audited financial statements

-			Jun 30, 2022			Dec 31, 2021
-	Carrying values as reported in published financial	Carrying values under scope of regulatory consoli-	-	Carrying values as reported in published financial	Carrying values under scope of regulatory consoli-	
in € m.	statements	dation	References	statements	dation	References
Assets:						
Cash and central bank balances	177,070	177,051		192,021	192,006	
Interbank balances (w/o central banks)	7,902	7,596		7,342	7,079	
Central bank funds sold and securities						
purchased under resale agreements	9,121	9,121		8,368	8,368	
Securities borrowed	164	164		63	63	
Financial assets at fair value through profit						
or loss						
of which:						
Trading assets	103,953	102,652		102,396	100,811	
Positive market values from derivative						
financial instruments	322,978	323,172		299,732	299,956	
Non-trading financial assets mandatory						
at fair value through profit and loss Financial assets designated at fair value	88,723	89,326		88,965	89,455	
through profit or loss Total financial assets at fair value through	96	96		140	139	
profit or loss	515,750	515,245		491,233	490,361	
Financial assets at Fair Value through OCI Financial assets mandatory at fair value through OCI	31,515	31,372		28,979	28,826	
Equity Instruments designated at fair value through OCI	0	0		0	0	
Total financial assets at fair value through OCI	24 545	24 272		28,979	20 026	
Financial assets available for sale	31,515 0	31,372		20,979	28,826	
				1,091		
Equity method investments of which: Goodwill	1,185	1,185 81	D	,	1,091	D
	488,430	491,405		78 471,319	<u>78</u> 474,170	
Loans at amortized cost						
Securities held to maturity	0	<u> </u>		<u> </u>	<u> </u>	
Property and equipment	5,595	5,569		5,536	5,508	
Goodwill and other intangible assets	7,155	7,154	<u>D</u>	6,824	6,824	D
Other assets	135,110	135,045		103,785	103,674	
of which: Defined benefit pension fund	4.500	4.500	_	4 000	4.000	_
assets	1,533	1,533	F	1,209	1,209	F
Assets for current tax	1,326	1,324	 _	1,214	1,211	
Deferred tax assets	6,338	6,298	E	6,218	6,170	E
Total assets	1,386,660	1,388,528		1,323,993	1,325,351	
Liabilities and equity:			-			
Deposits	612,583	613,698		603,750	604,930	
Central bank funds purchased and						
securities sold under repurchase						
agreements	1,213	1,213		747	747	
Securities loaned	8	8		24	24	
Financial liabilities at fair value through						
profit or loss						
of which:						
	58,970	59,027		54,718	54,756	

			Jun 30, 2022			Dec 31, 2021
	а	b		а	b	
	Carrying values as reported in published financial	Carrying values under scope of regulatory consoli-		Carrying values as reported in published financial	Carrying values under scope of regulatory consoli-	
in € m.	statements	dation	References	statements	dation	References
Negative market values from derivative financial instruments Financial liabilities designated at fair	303,475	303,660		287,108	287,223	
value through profit or loss	60,101	59,823		58,468	58,249	
Investment contract liabilities	494	0		562	0	
Total financial liabilities at fair value through						
profit or loss	423,040	422,510		400,857	400,227	
Other short-term borrowings	5,189	5,131		4,034	3,976	
Other liabilities	127,185	125,904		97,796	96,271	
Provisions	2,539	2,516		2,641	2,614	
Liabilities for current tax	690	676		600	587	
Deferred tax liabilities	882	796		501	417	
Long-term debt	143,924	146,497		144,485	146,818	
of which: Subordinated long-term debt1	11,658	11,658	H.I	8,896	8,896	H.I
Trust preferred securities ¹	521	521	H.I	528	528	H.I
Obligation to purchase common shares	0	0		0	0	
Total liabilities	1,317,775	1,319,470		1,255,962	1,257,140	
Common shares, no par value, nominal value						_
of € 2.56	5,291	5,291	Α	5,291	5,291	А
Additional paid-in capital	40.367	40,367	A	40.580	40.580	A
Retained earnings	14,448	14,713	В	12,607	12,871	В
Common shares in treasury, at cost	(396)	(396)	Α	(6)	(6)	А
Equity classified as obligation to purchase common shares	0	0	A	0	0	А
Accumulated other comprehensive income,						
net of tax	78	78	С	(444)	(444)	С
Total shareholders' equity	59,788	60,053		58,027	58,292	
Additional equity components	7,328	7,328	G	8,305	8,305	G
Noncontrolling interests	1,769	1,677		1,698	1,613	
Total equity	68,885	69,058		68,030	68,211	
Total liabilities and equity	1,386,660	1,388,528		1,323,993	1,325,351	

¹ Eligible Additional Tier 1 and Tier 2 instruments are reflected in these balance sheet positions based on their IFRS carrying values.

IFRS 9 transitional arrangements on own funds and temporary treatment of unrealized gains and losses

Article 473a CRR and Article 468 CRR

As of June 30, 2020, Deutsche Bank applied the transitional arrangements in relation to IFRS 9 as provided in Article 473a CRR to all of the CET 1 measures. The CRR allowed for a phase-in of the CET 1 reduction due to the increase in credit loss allowance, as a result of the implementation of IFRS 9, over a five year period until year end 2022. The transitional provisions were structured such that there is a static component relating to increases of credit loss allowance observed as of January 2018 and a dynamic component relating to credit loss allowance increases observed between January 2018 and the current reporting date.

As per the CRR amendment published on June 26, 2020 the transitional provisions have been modified such that the dynamic component is reset, i.e. it separately covers the periods from January 1, 2018 to January 1, 2020 and the period from January 1, 2020 to the current reporting date, the phase-in period is extended until 2024, and the phase-in percentages are modified

In addition, the CRR amendment simplifies the implementation of the transitional provisions as the requirement to recalculate the exposure at default (EAD) for each individual credit risk standardized approach (CRSA) exposure taking into account the amounts added back to CET 1 no longer applies. Instead, an additional credit risk RWA amount equal to 100% times the credit loss allowance for the CRSA portfolio that has not reduced CET 1 due to the application of the transitional provisions is determined. The same amount is included in the leverage exposure. Deutsche Bank do make use of this simplification inthe Group's application of transitional provisions.

The capital add back as of June 30, 2022 is € 22.7 million which includes € 14.6 million from the static component solely stemming from the CRSA portfolio due to the increase in credit loss allowances for the CRSA portfolio at transition from IAS 39

to IFRS 9 at the end of 2017 and beginning of 2018. There was no contribution from the IRBA portfolios, given the regulatory expected loss exceeded IFRS 9 credit loss allowances for the relevant reporting dates.

There is no contribution from the dynamic component from both CRSA and IBRA portfolios which compares credit loss allowance levels between January 1, 2018 and January 1, 2020. This is due to a reduction in credit loss allowance levels in the aforementioned period for the CRSA portfolio and the regulatory expected loss exceeding the credit loss allowance levels for the IRBA portfolio.

There is a contribution of € 8.1 million from the dynamic component which compares the credit loss allowance levels since January 1, 2020 and the reporting date. This is due to an increase in provisions for the CRSA portfolio since January 1, 2020.

The impact of the € 22.7 million capital add back as of June 30, 2022 on the CET 1, Tier 1 and Total Capital as well as risk weighted assets and leverage exposure did not lead to a material change of the related ratios. Therefore template 'IFRS 9-FL: Comparison of institutions' own funds and capital and leverage ratios with and without the application of transitional arrangements for IFRS 9 or analogous ECLs" is not being disclosed due to immateriality.

Deutsche Bank did not elect to apply the new Article 468 of CRR 'quick fix' which relates to the temporary treatment of unrealized gains and losses measured at fair value through other comprehensive income in view of the COVID-19 pandemic.

Main features of capital instruments

Article 437 (b-c) CRR

A description of the main features of the Common Equity Tier 1, Additional Tier 1 and Tier 2 capital instruments issued by Deutsche Bank is published on Deutsche Bank's website (decom/ir/en/capital-instruments.htm). In addition, this website provides full terms and conditions of all Common Equity Tier 1, Additional Tier 1 and Tier 2 capital instruments to the extent that these do not constitute private placements and are treated confidentially.

Capital buffers

Article 440 CRR

Minimum capital requirements and additional capital buffers

The Pillar 1 CET 1 minimum capital requirement applicable to the Group is 4.50% of risk-weighted assets (RWA). The Pillar 1 total capital requirement of 8.00% demands further resources that may be met with up to 1.50% Additional Tier 1 capital and up to 2.00% Tier 2 capital.

Failure to meet minimum capital requirements can result in supervisory measures such as restrictions of profit distributions or limitations on certain businesses such as lending. The Group complied with the minimum regulatory capital adequacy requirements in 2021 and within the first half of 2022.

In addition to these minimum capital requirements, the following combined capital buffer requirements are fully effective beginning 2022. The capital conservation buffer requirement implemented in Section 10c German Banking Act, based on Article 129 CRD is 2.50% CET 1 capital of RWA in 2022 and onwards. The institution-specific countercyclical buffer that applies to Deutsche Bank is the weighted average of the countercyclical capital buffers that apply in the jurisdictions wherethe Group's relevant credit exposures are located. As of June 30, 2022, the countercyclical capital buffer rate was at 0.02%.

Deutsche Bank continues to be designated as a global systemically important institution (G-SII) by BaFin in agreement with the Deutsche Bundesbank, resulting in a G-SII buffer requirement of 1.5% CET 1 capital of RWA in 2022. Additionally, Deutsche Bank AG has been classified by BaFin as an other systemically important institution (O-SII) with an additional buffer requirement of 2.00% that has to be met on a consolidated level. Hence, for Deutsche Bank, the O-SII buffer amounts to 2.00% in 2022. Only the higher of the buffers for systemically important institutions (G-SII buffer or O-SII buffer) must be applied. A systemic risk buffer (as of June 30, 2022 not applicable for DB) would have to be applied cumulatively.

In February 2022, the ECB informed Deutsche Bank that the capital requirements will remain unchanged and the decision requires Deutsche Bank to fulfill its 2.50% Pillar 2 requirement (SREP add-on) with at least 56.25% CET 1, 18.75% Additional Tier 1 and 25% Tier 2 capital. Accordingly, Deutsche Bank needs to maintain a CET 1 ratio, which as of June 30, 2022 is at least 10.43% on a consolidated basis. This CET 1 capital requirement comprises the Pillar 1 minimum capital requirement of 4.50%, the Pillar 2 requirement (SREP add-on) of 1.41%, the capital conservation buffer of 2.50%, the countercyclical buffer (currently 0.02%) and the O-SII buffer of 2.00%.

In 2021, Deutsche Bank participated in the EBA Stress Test 2021 which was postponed from 2020 due to the COVID-19 pandemic. By its standard procedures, the ECB has considered the Group's quantitative performance in the adverse scenario as an input when reconsidering the level of the Pillar 2 guidance in its 2021 SREP assessment and the Group's qualitative performance as one aspect when holistically reviewing the Pillar 2 requirement.

Geographical distribution of credit exposures

Article 440 (a) CRR

The following tables disclose the amount of Deutsche Bank's countercyclical buffer as well as the geographical distribution of credit exposures relevant for its calculation in the standard format as set out in Commission Delegated Regulation (EU) 2015/1555. The geographical split table shows countries on an individual basis if each country imposes a countercyclical capital buffer rate or the total own funds requirements exceed € 20 million. The values for the remaining countries are shown as "Other".

Countercyclical capital buffer rates are determined by Basel Committee member jurisdictions. Countercyclical capital buffer varies according to a percentage of risk weighted assets. The "General credit exposures" include only credit exposures to the private sector. Exposures to the public sector and to institutions are not in scope. The "Trading book exposures" contain market risk standardized approach non-securitization and trading book securitization positions as well as the IRC ("Incremental Risk Charge").

EU CCyB1 - Geographical distribution of credit exposures relevant for the calculation of the countercyclical capital buffer

Jun 30, 2022

													Jun 30, 2022
	General cre	edit exposures	Relevant cred	it exposures – Market risk					Own fund	ds requirements			
			Sum of long and short	Value of	Securitisation				Relevant credit				
	Exposure	Exposure	positions of trading book	trading book exposures	exposures Exposure	Total	Relevant credit risk	Relevant credit	exposures – Securitisation positions in		Risk- weighted	Own fund	Countercyclic
in € m.	value for SA	value for IRB	exposures for SA	for Internal models	value for non- trading book	exposure value	exposures - Credit risk	exposures – Market risk	the non- trading book	Total	exposure amounts	requirements weights (%)	al buffer rate (%)
Australia	112	5,257	499	0	2,273	8,141	175	23	23	220	2,756	1.02	0.00
Austria	2	1,780	0	127	0	1,909	39	2	0	41	507	0.19	0.00
Bahrain	123	125	0	0	0	249	22		0	22	278	0.10	0.00
Belgium	81	2.455	0	306	30	2,872	73	6	0	79	993	0.37	0.00
Bermuda	25	1,138	0	0	374	1,537	59	1	20	80	1,001	0.37	0.00
Brazil	28	1,276	1	329	0	1,635	83	40	0	123	1,535	0.57	0.00
British Virgin Islands	41	6,397	0	4	0	6,442	57	0	0	57	718	0.26	0.00
Bulgaria	0	29	0	1	0	30	1	0	0	1	10	0.00	0.50
Canada	143	2,205	2	0	1,029	3,378	105	0	12	117	1,463	0.54	0.00
Cayman Islands	283	8,058	0	25	29	8,395	312	1	13	327	4,081	1.50	0.00
China	83	6,025	0	1,249	0	7,357	290	22	0	311	3,891	1.43	0.00
Czech Republic	2	215	0	19	0	236	7	0	0	7	88	0.03	0.50
Denmark	23	1,781	0	282	0	2,086	62	5	0	66	831	0.31	0.00
France	193	9,200	214	675	615	10,897	270	14	7	291	3,640	1.34	0.00
Germany	8,555	284,429	30	7,029	3,427	303,469	8,614	102	93	8,809	110,111	40.60	0.00
Ghana	0	434	0	1	0	434	23	0	0	23	291	0.11	0.00
Guernsey	30	813	0	0	0	843	20	0	0	20	254	0.09	0.00
Hong Kong	57	4,199	0	295	0	4,551	127	3	0	130	1,629	0.60	1.00
India	2,600	7,743	1	293	3,419	14,056	424	21	69	514	6,425	2.37	0.00
Indonesia	20	1,134	0	118	0	1,273	43	2	0	46	570	0.21	0.00
Ireland	314	6,720	88	138	3,299	10,559	183	12	103	299	3,734	1.38	0.00
Israel	10	779	0	273	0	1,062	64	21	0	85	1,062	0.39	0.00
Italy (incl. San Marino)	2,094	24,091	12	0	240	26,437	1,143	35	13	1,191	14,888	5.49	0.00
Ivory Coast	0	474	0	36	0	511	27	0	0	27	339	0.12	0.00
Japan	111	3,829	0	51	87	4,079	128	0	1	129	1,610	0.59	0.00
Jersey	49	2,970	0	23	1,005	4,047	122	1	16	138	1,729	0.64	0.00
Luxembourg	3,476	14,616	0	279	4,701	23,073	593	8	75	676	8,455	3.12	0.50
Malaysia	22	742	0	343	0	1,107	26	2	0	28	350	0.13	0.00
Mauritius	247	612	0	4	0	863	53	0	0	53	667	0.25	0.00
Mexico	3	1,696	0	0	0	1,699	65	2	0	66	828	0.31	0.00
Netherlands	736	13,501	114	1,755	626	16,732	466	44	27	537	6,708	2.47	0.00
Nigeria	1	358	0	3	0	361	29	0	0	29	363	0.13	0.00
Norway	19	744	0	297	0	1,060	25	5	0	30	373	0.14	1.50
Poland	15	2,569	0	0	0	2,585	57	0	0	57	717	0.26	0.00
Portugal	11	1,019	1	0	17	1,048	21	0	0	22	269	0.10	0.00
Russian Federation	16	829	0	0	0	845	51	0	0	51	643	0.24	0.00
Singapore	188	6,706	34	432	0	7,359	180	2	0	182	2,278	0.84	0.00
Slovakia	0	118	0	0	0	118	2	0	0	2	20	0.01	1.00
South Africa	0	314	0	1	0	316	26	3	0	29	361	0.13	0.00
South Korea	14	4,469	1	668	0	5,152	52	13	0	66	822	0.30	0.00

Jun 30, 2022 Relevant credit exposures -Market risk General credit exposures Own funds requirements Sum of long Relevant and Value of credit short trading Securitisation exposures -Relevant positions of book exposures Relevant Securitisation Risk-Exposure Exposure trading book exposures Exposure Total credit risk credit positions in weighted Own fund Countercyclic al buffer rate value value exposures for for Internal value for nonthe nonrequirements exposure exposures exposures exposure for SA in € m. for IRB SA models trading book value Credit risk Market risk trading book Total amounts weights (%) (%) Spain 353 41 22 764 0.00 20,910 145 38 21,486 741 0 9,544 3.52 Sweden 4 2,288 0 407 2,699 97 0 101 1,268 0.47 0.00 0 4 Switzerland 26 13,178 0 700 0 13,905 209 5 0 214 2,676 0.99 0.00 0.00 Taiwan 6 1,232 0 40 0 1,278 25 0 0 25 312 0.12 Thailand 1,254 0 261 0 1,515 45 6 0 51 634 0.23 0.00 Turkey 17 975 0 0 0 992 59 0 0 59 732 0.27 0.00 United Arab Emirates 39 32 38 39 2,355 0 0 2,426 0 487 0.18 0.00 United Kingdom 456 22.534 63 1.800 1,166 26.020 774 37 13 824 10.294 3.80 0.00 United States of America (incl. Puerto Rico) 2,198 135,081 1,254 0 44,406 182,940 3,474 147 556 4,178 52.219 19.25 0.00 Uzbekistan 0 384 0 0 384 21 0 0 21 261 0.10 0.00 0 Vietnam 2 736 0 21 0 759 56 0 0 57 707 0.26 0.00 395 11.952 0.00 Other 354 993 460 14,153 330 40 14 384 4.805 1.77 Total 23,222 644,730 2,707 19,458 67,243 757,360 19,987 655 1,056 21,698 271,225 100.00 0.02

													Dec 31, 2021
	General cre	dit exposures	Relevant cred	it exposures – Market risk	_				Own funds	requirements			
	Exposure value	Exposure value	Sum of long and short positions of trading book exposures for	Value of trading book exposures for Internal	Securitisation exposures Exposure value for non-	Total exposure	Relevant credit risk exposures -	Relevant credit exposures –	Relevant credit exposures – Securitisation positions in the non-		Risk- weighted exposure	Own fund requirements	Countercyclic al buffer rate
in € m.	for SA	for IRB	SA	models	trading book	value	Credit risk	Market risk	trading book	Total	amounts	weights (%)	(%)
Australia	94	4,079	318	0	1,716	6,208	135	15	19	170	2,120	0.83	0.00
Austria	25	1,362	0	0	0	1,388	37	2	0	39	484	0.19	0.00
Bahrain	185	63	0	0	0	248	22	0	0	22	269	0.11	0.00
Belgium	71	2,151	0	0	30	2,252	54	3	0	57	713	0.28	0.00
Bermuda	33	1,130	1	0	167	1,331	65	2	2	69	861	0.34	0.00
Brazil	15	797	0	304	0	1,116	35	17	0	52	653	0.26	0.00
British Virgin Islands	92	7,651	0	6	0	7,748	77	0	0	77	962	0.38	0.00
Bulgaria	0	21	0	1	0	22	1	0	0	1	7	0.00	0.50
Canada	147	1,682	0	0	526	2,355	78	0	6	84	1,050	0.41	0.00
Cayman Islands	340	7,578	2	24	626	8,571	334	3	8	345	4,309	1.68	0.00
China	80	6,489	0	554	0	7,122	298	25	0	323	4,040	1.58	0.00
Colombia	3	349	0	12	0	364	20	1	0	21	265	0.10	0.00
Czech Republic	13	215	0	0	0	228	6	0	0	6	81	0.03	0.50
Denmark	33	1,351	0	0	0	1,384	53	0	0	53	663	0.26	0.00
France	147	8,270	9	0	619	9,044	250	5	8	262	3,276	1.28	0.00
Germany	9,964	278,389	14	0	3,899	292,267	7,957	6	80	8,043	100,539	39.27	0.00
Ghana	0	483	0	1	0	484	30	0	0	30	372	0.15	0.00
Hong Kong	172	4,088	0	255	0	4,516	155	3	0	159	1,982	0.77	1.00
India	2,299	7,385	0	320	3,081	13,086	442	21	63	526	6,576	2.57	0.00
Indonesia	65	1,225	0	366	0	1,657	51	12	0	63	783	0.31	0.00
Ireland	528	6,015	31	41	3,249	9,863	200	15	107	322	4,025	1.57	0.00
Israel	4	920	0	348	0	1,272	153	14	0	167	2,093	0.82	0.00
Italy (incl. San Marino)	2,052	23,194	55	0	230	25,532	1,128	18	10	1,156	14,455	5.65	0.00
Ivory Coast	0	459	0	27	0	486	26	0	0	26	323	0.13	0.00
Japan	130	4,007	0	681	94	4,913	136	4	1	141	1,769	0.69	0.00
Jersey	73	2,697	0	25	464	3,259	117	0	9	126	1,572	0.61	0.00
Luxembourg	2,420	13,927	0	166	4,416	20,929	610	11	71	692	8,653	3.38	0.50
Malaysia	18	621	0	289	0	929	23	2	0	25	315	0.12	0.00
Mauritius	168	299	0	0	0	468	31	0	0	31	385	0.15	0.00
Mexico	3	1,140	0	0	0	1,144	54	0	0	54	680	0.27	0.00
Netherlands	790	12,833	68	122	598	14,410	490	7	24	521	6,510	2.54	0.00
Norway	7	719	0	18	0	744	18	0	0	18	228	0.09	1.00
Poland	34	2,625	0	22	0	2,680	56	0	0	56	706	0.28	0.00
Portugal	83	604	0	0	43	729	26	6	1	33	410	0.16	0.00
Russian Federation	8	910	0	0	0	918	49	0	0	49	615	0.24	0.00
Saudi Arabia	30	1,615	0	0	0	1,645	25	0	0	25	312	0.12	0.00
Singapore	246	6,628	0	406	0	7,280	201	2	0	204	2,548	1.00	0.00
Slovakia	0	96	0	0	0	96	1	0	0	1	17	0.01	1.00
South Korea	13	7,137	0	2,336	0	9,486	94	69	0	163	2,043	0.80	0.00
Spain	404	19,512	40	0	81	20,037	632	46	3	681	8,517	3.33	0.00
Sri Lanka	1	210	0	27	0	238	23	1	0	24	295	0.12	0.00

													Dec 31, 2021
	General cre	edit exposures	Relevant cred	it exposures – Market risk					Own funds	requirements			
in € m.	Exposure value for SA	Exposure value for IRB	Sum of long and short positions of trading book exposures for SA	Value of trading book exposures for Internal models	Securitisation exposures Exposure value for non- trading book	Total exposure value	Relevant credit risk exposures - Credit risk	Relevant credit exposures – Market risk	Relevant credit exposures – Securitisation positions in the non- trading book	Total	Risk- weighted exposure amounts	Own fund requirements weights (%)	Countercyclic al buffer rate (%)
Sweden	6	2,047	0	103	0	2,157	97	0	0	97	1,214	0.47	0.00
Switzerland	87	18,555	0	81	0	18,723	291	1	0	292	3,646	1.42	0.00
Taiwan	7	1,113	0	38	0	1,159	29	0	0	29	359	0.14	0.00
Thailand	1	1,239	0	263	0	1,503	48	7	0	54	681	0.27	0.00
Turkey	30	588	0	0	0	618	30	0	0	31	383	0.15	0.00
United Arab Emirates	33	2,017	0	20	0	2,070	34	0	0	34	431	0.17	0.00
United Kingdom	613	17,577	7	506	693	19,395	700	22	10	733	9,157	3.58	0.00
United States of America	_												
(incl. Puerto Rico)	1,669	107,553	1,586	0	43,466	154,274	3,159	177	544	3,880	48,503	18.95	0.00
Vietnam	1	584	0	0	0	584	46	0	0	47	582	0.23	0.00
Other	185	9,860	309	488	409	11,251	316	40	8	365	4,560	1.78	0.00
Total	23,422	602,060	2,441	7,850	64,409	700,183	18,943	561	975	20,479	255,992	100.00	0.03

Institution specific countercyclical capital buffer

Article 440 (b) CRR

The following table shows an overview of Deutsche Bank's countercyclical buffer rate and requirements.

EU CCyb2 - Institution-specific countercyclical capital buffer

		Jun 30, 2022	Dec 31, 2021
1	Total risk exposure amount (in € m.)	369,970	351,629
2	Institution specific countercyclical buffer rate	0.02 %	0.03 %
3	Institution specific countercyclical buffer requirement (in € m.)	88	91

Composition of own funds and eligible liabilities

Article 437a CRR and Article 45i(3)(b) BRRD

This section provides detailed information on the composition of Deutsche Bank's own funds and eligible liabilities, its main features, its ranking in the creditor hierarchy and its maturities.

As of June 30, 2022 the Group's available own funds and eligible liabilities amounted to € 124.2 billion, consisting of € 65.3 billion own funds, € 49.4 billion subordinated liabilities and € 9.6 billion non-subordinated liabilities. The Group's regulatory CET1 capital included in the own funds contains € 23 million from the IFRS 9 transitional impact.

Deutsche Bank predominantly relies on own funds and subordinated eligible liabilities counting towards TLAC and subordinated MREL for meeting its MREL requirement. Only 7.69% of the Group's MREL capacity is contributed from eligible liabilities which are not subordinated. Deutsche Bank has no permission as per CRR Article 72b (3) or (4) to use non-subordinated eligible liabilities for meeting subordinated MREL or TLAC. As of June 30, 2022, 38.61% of the subordinated liabilities were issued prior to June 27, 2019 and therefore grandfathered regarding the eligibility criteria newly established through Article 72b CRR.

As of June 30, 2022, Deutsche Bank has excess of CET 1 capital of 7.05% of TREA after meeting the resolution group's requirements. This is well above the institution specific combined buffer requirement of 4.52% and establishes a comfortable distance to triggering distribution restrictions under the MREL Minimum Distributable Amount ("M-MDA") rules.

EU TLAC1 – Composition of MREL and G-SII requirement for own funds end eligible liabilities

				Jun 30, 2022
		a	b	C
	in \in m.	Minimum requirement for own funds and eligible liabilities (MREL)	G-SII Requirement for own funds and eligible liabilities (TLAC)	Memo item: Amounts eligible for the purposes of MREL, but not TLAC
	Own funds and eligible liabilities and adjustments	•		
1	Common Equity Tier 1 capital (CET1)	47,932	47,932	_
2	Additional Tier 1 capital (AT1)	7,268	7,268	_
6	Tier 2 capital (T2)	10,045	10,045	_
11	Own funds for the purpose of Articles 92a CRR and 45 BRRD	65,246	65,246	_
	Own funds and eligible liabilities: Non-regulatory capital elements			
	Eligible liabilities instruments issued directly by the resolution entity that are			
12	subordinated to excluded liabilities (not grandfathered)	29,385	29,385	_
EU 12a	Eligible liabilities instruments issued by other entities within the resolution group that are subordinated to excluded liabilities (not grandfathered)	0	0	_
FII 12h	Eligible liabilities instruments that are subordinated to excluded liabilities, issued prior to 27 June 2019 (subordinated grandfathered)	18,479	18,479	_
	Tier 2 instruments with a residual maturity of at least one year to the extent they do not	,		
EU 12c	qualify as Tier 2 items	1,580	1,580	_
-	Eligible liabilities that are not subordinated to excluded liabilities (not grandfathered pre		·	
13	cap)	5,595	_	5,595
	Eligible liabilities that are not subordinated to excluded liabilities issued prior to 27 June			
EU 13a	2019 (pre-cap)	3,957	_	3,957
14	Amount of non subordinated instruments eligible, where applicable after application of Article 72b (3) CRR	_		
17	Eligible liabilities items before adjustments	58,996	49,444	9,552
-	of which:		·	· · · · · · · · · · · · · · · · · · ·
EU 17a	subordinated	49,444	49,444	_
	Own funds and eligible liabilities: Adjustments to non-regulatory capital elements			
18	Own funds and eligible liabilities items before adjustments	124,242	114,690	9,552
19	(Deduction of exposures between MPE resolution groups)	_	0	_
20	(Deduction of investments in other eligible liabilities instruments)	_	0	_
22	Own funds and eligible liabilities after adjustments	124,242	114,690	9,552
	of which:			
EU 22a	Own funds and subordinated	114,690	_	_
	Risk-weighted exposure amount and leverage exposure measure of the resolution group			
23	Total risk exposure amount	369,970	369,970	
24	Total exposure measure	1,279,798	1,279,798	
	Ratio of own funds and eligible liabilities			
25	Own funds and eligible liabilities (as a percentage of total risk exposure amount)	33.58	31.00	
	of which:			
EU 25a	Own funds and subordinated	31.00	-	_
26	Own funds and eligible liabilities (as a percentage of total exposure measure)	9.71	8.96	
	of which:			
EU 26a		8.96	_	_
	CET1 (as a percentage of TREA) available after meeting the resolution group's			
27	requirements	7.05	7.05	
28	Institution-specific combined buffer requirement		4.52	
	of which:		0.50	
29	Capital conservation buffer requirement	_	2.50	_
30	Countercyclical buffer requirement	_	0.02	_
31	Systemic risk buffer requirement	_	0.00	_
EII 24 -	Global Systemically Important Institution (G-SII) or Other Systemically Important		2.00	
EU 31a	Institution (O-SII) buffer Memorandum items	_	2.00	_
FII 322	Total amount of excluded liabilities referred to in Article 72a(2) CRR		535,643	
LU 328	rotal amount of excluded habilities referred to III Article / Za(Z) ONN	_	333,043	_

				Dec 31, 2021
		а	b	С
	in € m.	Minimum requirement for own funds and eligible liabilities (MREL)	G-SII Requirement for own funds and eligible liabilities (TLAC)	Memo item: Amounts eligible for the purposes of MREL, but not TLAC
	Own funds and eligible liabilities and adjustments			
1	Common Equity Tier 1 capital (CET1)	46,506	46,506	_
2	Additional Tier 1 capital (AT1)	8,868	8,868	
6	Tier 2 capital (T2)	7,358	7,358	
11	Own funds for the purpose of Articles 92a CRR and 45 BRRD	62,732	62,732	
	Own funds and eligible liabilities: Non-regulatory capital elements			
12	Eligible liabilities instruments issued directly by the resolution entity that are subordinated to excluded liabilities (not grandfathered)	22,852	22,852	
EU 12a	Eligible liabilities instruments issued by other entities within the resolution group that are subordinated to excluded liabilities (not grandfathered)	0	0	
EU 12b	Eligible liabilities instruments that are subordinated to excluded liabilities, issued prior to 27 June 2019 (subordinated grandfathered)	22,301	22,301	
EU 12c	Tier 2 instruments with a residual maturity of at least one year to the extent they do not qualify as Tier 2 items	1,208	1,208	
13	Eligible liabilities that are not subordinated to excluded liabilities (not grandfathered pre cap)	4,707		4,707
EU 13a	Eligible liabilities that are not subordinated to excluded liabilities issued prior to 27 June 2019 (pre-cap)	1,051		1,051
14	Amount of non subordinated instruments eligible, where applicable after application of Article 72b (3) CRR			
17	Eligible liabilities items before adjustments	52,120	46,361	5,759
EU 17a	of which: subordinated Own funds and eligible liabilities: Adjustments to non-regulatory capital elements	46,361	46,361	-
18	Own funds and eligible liabilities items before adjustments	114,853	109,094	5,759
19	(Deduction of exposures between MPE resolution groups)		0	
20	(Deduction of investments in other eligible liabilities instruments)	_	0	_
22	Own funds and eligible liabilities after adjustments	114,853	109,094	5,759
	of which:			
EU 22a	Own funds and subordinated	109,094	_	_
	Risk-weighted exposure amount and leverage exposure measure of the resolution group			
23	Total risk exposure amount	351,629	351,629	_
24	Total exposure measure	1,124,667	1,124,667	
	Ratio of own funds and eligible liabilities		· -	
25	Own funds and eligible liabilities (as a percentage of total risk exposure amount) of which:	32.66	31.03	
EU 25a		31.03	_	_
26	Own funds and eligible liabilities (as a percentage of total exposure measure) of which:	10.21	9.70	
EU 26a	Own funds and subordinated CET1 (as a percentage of TREA) available after meeting the resolution group's	9.70	_	_
27	requirements	7.32	7.32	
28	Institution-specific combined buffer requirement of which:		4.53	
29	Capital conservation buffer requirement	_	2.50	_
30	Countercyclical buffer requirement	_	0.03	_
31	Systemic risk buffer requirement	_	0.00	_
EU 31a		-	2.00	_
FILES	Memorandum items		/00 1==	· ———
EU 32a	Total amount of excluded liabilities referred to in Article 72a(2) CRR	_	482,170	

Main features of eligible liabilities instruments

A description of the main features of the Group's senior non-preferred subordinated eligible liabilities instruments eligible for subordinated MREL and TLAC and issued by Deutsche Bank is published on Deutsche Bank's website (db.com/ir/en/capital-instruments.htm) to the extent that these do not constitute private placements and are treated confidentially.

Ranking in the creditor hierarchy and maturity

The following table provides a simplified overview of the ranking of liabilities in an insolvency proceeding under German law. The ranking is presented from the more junior liabilities to the more senior liabilities. Deutsche Bank AG's subordinated eligible liability instruments qualifying for MREL and TLAC through meeting all of the conditions in CRR Article 72b (2) or being grandfathered pursuant to CRR Article 494b (3) are exclusively rank at position 11 in the below order. Non-subordinated eligible liabilities instruments which are eligible for MREL rank in position 12. Deutsche Bank has no permission as per CRR Article 72b (3) or (4) to include eligible liability instruments ranking in position 12 into eligible liabilities for meeting subordinated MREL or TLAC requirements.

Ranking of liabilities in an insolvency proceeding under German law

Rank	Label of claims	Code
1	Common equity Tier 1 instruments	Section 199 of the Insolvency Code
2	Additional Tier 1 instruments	
3	Tier 2 instruments	Section 39 (2) of the Insolvency Code
4	Claims subordinated by virtue of a contractual subordination clause not specifying the	Section 33 (2) of the insolvency code
	pertinent rank (other than Additional Tier 1 or Tier 2 instruments)	
5	Claims for repayment of shareholder loans and accrued interest thereon	Section 39 (1) no. 5 of the Insolvency Code
6	Claims for the delivery of goods or provision of services free of charge	Section 39 (1) no. 4 of the Insolvency Code
7	Criminal and administrative fines	Section 39 (1) no. 3 of the Insolvency Code
8	Creditors' costs related to the insolvency proceeding	Section 39 (1) no. 2 of the Insolvency Code
9	Interest and late payment surcharges accrued after the opening of insolvency proceedings	Section 39 (1) no. 1 of the Insolvency Code
10	Claims subordinated by virtue of a contractual subordination clause which specifies the relevant ranking	Section 39 (2) of the Insolvency Code
	(i) are issued before 21 July 2018 and are neither deposits within the positions of no. 13 and 14 nor money market instruments	
40	(ii) are issued from 21 July 2018 onwards, have an original contractual maturity of at least one year, do not qualify as deposits within the position of no. 13 and 14 and the contractual documentation and, where applicable, the prospectus explicitly refer to the lower ranking	Continue 00 of the large large of Continue
12	year, do not qualify as deposits within the position of no. 13 and 14 and the contractual	Section 38 of the Insolvency Code in conjunction with Section 46f (5) of the Banking Act, including instruments covered by Section 46f (6) sentence 3 and 46f (7) of the Banking Act
12	year, do not qualify as deposits within the position of no. 13 and 14 and the contractual documentation and, where applicable, the prospectus explicitly refer to the lower ranking General creditors' claims Deposits not covered, but preferential	conjunction with Section 46f (5) of the Banking Act, including instruments covered by Section 46f (6) sentence 3 and 46f (7) of
	year, do not qualify as deposits within the position of no. 13 and 14 and the contractual documentation and, where applicable, the prospectus explicitly refer to the lower ranking General creditors' claims Deposits not covered, but preferential Deposits covered and preferential	conjunction with Section 46f (5) of the Banking Act, including instruments covered by Section 46f (6) sentence 3 and 46f (7) of the Banking Act Section 46f (4) no. 2 of the Banking Act Section 46f (4) no. 1 of the Banking Act
13 14	year, do not qualify as deposits within the position of no. 13 and 14 and the contractual documentation and, where applicable, the prospectus explicitly refer to the lower ranking General creditors' claims Deposits not covered, but preferential	conjunction with Section 46f (5) of the Banking Act, including instruments covered by Section 46f (6) sentence 3 and 46f (7) of the Banking Act Section 46f (4) no. 2 of the Banking Act
13	year, do not qualify as deposits within the position of no. 13 and 14 and the contractual documentation and, where applicable, the prospectus explicitly refer to the lower ranking General creditors' claims Deposits not covered, but preferential Deposits covered and preferential	conjunction with Section 46f (5) of the Banking Act, including instruments covered by Section 46f (6) sentence 3 and 46f (7) of the Banking Act Section 46f (4) no. 2 of the Banking Act Section 46f (4) no. 1 of the Banking Act

Deutsche Bank's own funds and eligible liabilities fall into these insolvency ranks as per below table on the basis of German insolvency law. The "subset of liabilities and own funds less excluded liabilities that are own funds and liabilities potentially eligible for meeting MREL" is identical to Deutsche Bank Group's own funds and eligible liabilities available to meet MREL for which maturities are provided in addition. Eligible liabilities included in insolvency rank 11 and 12 in these lines are exclusively issued out of the resolution entity Deutsche Bank AG at the individual level. Other ranks - including own funds - represent Deutsche Bank Group values as Deutsche Bank AG is not subject to capital requirements on individual level given it has been granted a capital waiver.

EU TLAC3a - Creditor ranking

										Jun 30, 2022
	1	2	3	4	5	6	7	8	9	
in € m.										Total
Description of insolvency rank	R1	R2	R3	R11	R12	R13	R14	R16	R17	
Liabilities and own funds	47,932	7,268	11,625	53,540	382,326	97,128	204,747	268,878	20,993	1,094,439
of which:										
Excluded liabilities	0	0	0	0	41,026	0	204,747	268,878	20,993	535,643
Liabilities and own funds less excluded liabilities	47,932	7,268	11,625	53,540	341,300	97,128	0	0	0	558,795
Subset of Liabilities and own funds less excluded liabilities that are own funds and liabilities potentially eligible for meeting TLAC/MREL	47,932	7,268	11,625	47,864	9,552	0	0	0	0	124,242
of which:										
Residual maturity ≥ 1 year < 2 years	0	0	1,602	3,297	4,888	0	0	0	0	9,787
Residual maturity ≥ 2 year < 5 years	0	0	2,216	22,367	2,947	0	0	0	0	27,530
Residual maturity ≥ 5 years < 10 years	0	0	5,656	14,845	1,030	0	0	0	0	21,531
Residual maturity ≥ 10 years, but excluding perpetual securities	0	0	2,152	7,355	687	0	0	0	0	10,194
Perpetual securities	47,932	7,268	0	0	0	0	0	0	0	55,201

Capital requirements

Overview of RWA and capital requirements

Article 438 (d) CRR

The table below shows RWA broken down by risk types and model approaches compared to the previous quarter end. It also shows the corresponding minimum capital requirements, which is derived by multiplying the respective RWA by an 8% capital ratio

EU OV1 - Overview of RWA

			Jun 30, 2022		Mar 31, 2022
		а	c1	b	c2
			Minimum		Minimum
	in € m.	RWA	capital requirements	RWA	capital requirements
1	Credit risk (excluding CCR)	226,060	18,085	224,482	17,959
	of which:				
2	The standardized approach (SA)	19,261	1,541	18,640	1,491
3	The foundation IRB (FIRB) approach	2,168	173	2,092	167
4	Slotting approach	591	47	680	54
EU 4a	Equities under the simple riskweighted approach	11,225	898	13,234	1,059
5	The advanced IRB (AIRB) approach	192,814	15,425	189,836	15,187
6	Counterparty credit risk (CCR)	28,880	2,310	30,686	2,455
	of which:				
7	The standardized approach	2,793	223	2,783	223
8	Internal model method (IMM)	19,058	1,525	19,045	1,524
EU 8a	Risk exposure to a CCP	593	47	655	52
EU 8b	Credit Valuation Adjustment (CVA)	4,808	385	6,256	501
9	Other CCR	1,628	130	1,948	156
15	Settlement risk	156	12	295	24
16	Securitization exposures in the banking book (after the cap)	13,205	1,056	12,555	1,004
	of which:				
17	SEC-IRBA approach	7,510	601	7,302	584
18	SEC-ERBA (including IAA)	474	38	532	43
19	SEC-SA approach	4,778	382	4,312	345
EU 19a	1250% / deduction	443	35	408	33
20	Market risk	28,068	2,245	21,939	1,755
	of which:				
20	Standardized approach	3,245	260	3,255	260
21	IMA	24,824	1,986	18,683	1,495
EU 22a	Large exposures	0	0	0	0
23	Operational risk	59,373	4,750	60,369	4,829
	of which:				
EU 23a	Basic indicator approach	0	0	0	0
EU 23b	Standardized approach	0	0	0	0
EU 23c	Advanced measurement approach	59,373	4,750	60,369	4,829
	Amounts below the thresholds for deduction (subject	,	•	-	•
24	to 250% risk weight)	14,228	1,138	14,106	1,128
29	Total	369,970	29,598	364,431	29,154

As of June 30, 2022, RWA was € 370.0 billion compared to € 364.4 billion as of March 31, 2022. The increase of € 5.5 billion was primarily driven by the RWA for market risk, credit risk (excluding CCR) and securitization exposures in the banking book (after the cap), which was partially offset by reductions in operational risk and counterparty credit risk (CCR) RWA. The market risk RWA increased by € 6.1 billion primarily driven by the Stressed Value-at-Risk (SVaR) and Value-at-Risk (VaR) components, included in the internal model approach (IMA). The increase in the VaR component was driven by the inclusion of the recent market volatility as well as the increased capital multiplier, which also drove the increase in the SVaR component. The increase in credit risk RWA (excluding CCR) by € 1.6 billion was mainly driven by an increase of € 3.0 billion in the advanced IRB (AIRB) approach primarily due to foreign exchange movements, partly offset by a decrease in asset size. Additionally, credit risk RWA (excluding CCR) under the standardized approach (SA) increased by € 0.6 billion mainly due to increases in the exposure classes corporates and institutions, partly offset by the exposure class collective investment undertakings. These increases were partly compensated by a decrease of € 2.0 billion in equities under the simple riskweighted approach mainly due to exchange-traded equity exposures. RWA for securitization exposure in the banking book (after the cap) increased by € 0.7 billion mainly driven by SEC-SA approach due to increased exposures. The operational risk RWA decreased by € 1.0 billion mainly resulting from a more favorable development of the Groups internal loss profile feeding

into the capital model, partly offset by updates to the qualitative adjustments. Additionally, counterparty credit risk (CCR) RWA decreased by € 1.8 billion mainly driven by a model refinement affecting the credit value adjustment (CVA) calculation.

The movements of RWA for credit and market risk are discussed below in sections "Development of credit risk RWA", "CCR exposures development" and "Development of market risk RWA".

Leverage ratio

Deutsche Bank manages its balance sheet on a Group level and, where applicable, locally in each region. In the allocation of financial resources the Group favors business portfolios with the highest positive impact on its profitability and shareholder value. The Group monitors and analyzes balance sheet developments and tracks certain market observed balance sheet ratios. Based on this, the Group triggers discussions and management action by the Group Risk Committee (GRC).

Article 451 (1)(a-c),(2) and (3) CRR

The following tables show the leverage ratio exposure and the leverage ratio. The first table EU LR1 delivers a reconciliation of accounting assets reported in the IFRS financial statements to the leverage ratio exposure. The leverage ratio common disclosure table EU LR2 presents the components of the leverage exposure, the Tier 1 Capital and the leverage ratio as well as the mean value for gross securities financing transaction (SFT) assets. For further details on Tier 1 capital please also refer to the "Regulatory capital composition, prudential filters and deduction items" section in chapter "Capital" on page 8 in this report. Table EU LR3 provides a further breakdown of the balance sheet exposures (excluding derivatives, SFTs and exempted exposures).

EU LR1 – LRSum: Summary reconciliation of accounting assets and leverage ratio exposures

	in € bn. (unless stated otherwise)	Jun 30. 2022	Dec 31, 2021
1	Total assets as per published financial statements	1,387	1,324
	Adjustment for entities which are consolidated for accounting purposes but are outside the scope		
2	of prudential consolidation	2	1
	(Adjustment for securitised exposures that meet the operational requirements for the recognition of risk		
3	transference)	0	0
4	(Adjustment for temporary exemption of exposures to central banks (if applicable))	0	(99)
	(Adjustment for fiduciary assets recognised on the balance sheet pursuant to the applicable accounting framework but excluded from the total exposure measure in accordance with point (i) of Article 429a(1)		
5	_CRR)	N/M	N/M
6	Adjustment for regular-way purchases and sales of financial assets subject to trade date accounting	(20)	(12)
7	Adjustment for eligible cash pooling transactions	18	17
8	Adjustment for derivative financial instruments	(176)	(165)
9	Adjustment for securities financing transactions (SFTs)	4	3
	Adjustment for off-balance sheet items (ie conversion to credit equivalent amounts of off-balance sheet		
10	exposures)	127	115
11	(Adjustment for prudent valuation adjustments and specific and general provisions which have reduced Tier 1 capital)	(5)	(5)
EU-11a	(Adjustment for exposures excluded from the total exposure measure in accordance with point (c) of Article 429a(1) CRR)	N/M	N/M
EU-11b	(Adjustment for exposures excluded from the total exposure measure in accordance with point (j) of Article 429a(1) CRR)	N/M	N/M
12	Other adjustments	(56)	(55)
13	Total exposure measure	1,280	1,125

N/M - Not meaningful

EU LR2 – LRCom: Leverage ratio common disclosure

	in € bn. (unless stated otherwise)	Jun 30, 2022	Dec 31, 2021
	On-balance sheet exposures (excluding derivatives and SFTs)		
1	On-balance sheet items (excluding derivatives, SFTs, but including collateral)	977	842
0	Gross-up for derivatives collateral provided, where deducted from the balance sheet assets pursuant to the		4
3	applicable accounting framework (Deductions of receivables assets for cash variation margin provided in derivatives transactions)	(40)	(37)
4	(Adjustment for securities received under securities financing transactions that are recognised as an asset)	0	0
5	(General credit risk adjustments to on-balance sheet items)	(5)	(5)
6	(Asset amounts deducted in determining Tier 1 capital)	(10)	(9)
7	Total on-balance sheet exposures (excluding derivatives and SFTs)	922	791
	Derivative exposures		
8 EU-8a	Replacement cost associated with SA-CCR derivatives transactions (ie net of eligible cash variation margin)	53 N/M	46
9	Derogation for derivatives: replacement costs contribution under the simplified standardised approach Add-on amounts for potential future exposure associated with SA-CCR derivatives transactions	80	N/M 82
EU-9a	Derogation for derivatives: Potential future exposure contribution under the simplified standardised approach	N/M	N/M
EU-9b	Exposure determined under Original Exposure Method	N/M	N/M
10	(Exempted CCP leg of client-cleared trade exposures) (SA-CCR)	(7)	(6)
EU-10a	(Exempted CCP leg of client-cleared trade exposures) (simplified standardised approach)	N/M	N/M
EU-10b	(Exempted CCP leg of client-cleared trade exposures) (Original exposure method)	N/M	N/M
11	Adjusted effective notional amount of written credit derivatives	580	460
12	(Adjusted effective notional offsets and add-on deductions for written credit derivatives)	(559)	(444)
13	Total derivatives exposures	148	138
	Securities financing transaction (SFT) exposures		
14	Gross SFT assets (with no recognition of netting), after adjustment for sales accounting transactions	228	194
15	(Netted amounts of cash payables and cash receivables of gross SFT assets)	(139)	(108)
16	Counterparty credit risk exposure for SFT assets	5	5
EU-16a	Derogation for SFTs: Counterparty credit risk exposure in accordance with Articles 429e(5) and 222 CRR	N/M	N/M
17	Agent transaction exposures	0	0
EU-17a	(Exempted CCP leg of client-cleared SFT exposure)	0	0
18	Total securities financing transaction exposures	94	91
	Other off-balance sheet exposures		
19	Off-balance sheet exposures at gross notional amount	371	327
20	(Adjustments for conversion to credit equivalent amounts)	(245)	(211)
	(General provisions deducted in determining Tier 1 capital and specific provisions associated with off-	· · · · · ·	
21	balance sheet exposures)	(0)	(0)
22	Off-balance sheet exposures	126	115
	Excluded exposures		
EU-22a	(Exposures excluded from the total exposure measure in accordance with point (c) of Article 429a(1) CRR)	N/M	N/M
EU-22b	(Exposures exempted in accordance with point (i) of Article 429a(1) CRR (on and off balance sheet))	N/M	N/M
EU-22c	(Excluded exposures of public development banks (or units) - Public sector investments)	N/M	N/M
EU-22d	(Excluded exposures of public development banks (or units) - Promotional loans)	N/M	N/M
EU-22e	(Excluded passing-through promotional loan exposures by non-public development banks (or units))	N/M	N/M
EU-22f	(Excluded guaranteed parts of exposures arising from export credits)	(5)	(5)
EU-22g	(Excluded excess collateral deposited at triparty agents)	N/M	N/M
EU-22h	(Excluded CSD related services of CSD/institutions in accordance with point (a) of Article 429a(1) CRR)	N/M	N/M
EU-22i	(Excluded CSD related services of designated institutions in accordance with point (p) of Article 429a(1) CRR)	N/M	N/M
EU-22j	(Reduction of the exposure value of pre-financing or intermediate loans)	(5)	(5)
EU-22k	(Total exempted exposures)	(10)	(10)
	Capital and total exposure measure		
23	Tier 1 capital	55.2	54.7
24	Total exposure measure	1,280	1,125
	Leverage ratio		
25	Leverage ratio (in %)	4.3%	4.9%
	Leverage ratio (excluding the impact of the exemption of public sector investments and promotional loans)	1.070	1.070
EU-25	(%)	4.3%	4.9%
25a	Leverage ratio (excluding the impact of any applicable temporary exemption of central bank reserves) (%)	4.3%	4.5%
26	Regulatory minimum leverage ratio requirement (%)	3.0%	3.2%
EU-26a	Additional own funds requirements to address the risk of excessive leverage (%)	0.0%	0.0%
EU-26b	of which: to be made up of CET1 capital	0.0%	0.0%
27 ELL 272	Leverage ratio buffer requirement (%) Overall leverage ratio requirement (%)	0.0%	0.0%
EU-27a	Overall leverage ratio requirement (%)	3.0%	3.2%
	Choice on transitional arrangements and relevant exposures		
	and the same of th		

	in € bn.		
	(unless stated otherwise)	Jun 30, 2022	Dec 31, 2021
EU-27b	Choice on transitional arrangements for the definition of the capital measure ¹	Transitional	Fully phased in
	Disclosure of mean values		
28	Mean of daily values of gross SFT assets, after adjustment for sale accounting transactions and netted of amounts of associated cash payables and cash receivable	135	120
29	Quarter-end value of gross SFT assets, after adjustment for sale accounting transactions and netted of amounts of associated cash payables and cash receivables	89	86
30	Total exposure measure (including the impact of any applicable temporary exemption of central bank reserves) incorporating mean values from row 28 of gross SFT assets (after adjustment for sale accounting transactions and netted of amounts of associated cash payables and cash receivables)	1,326	1,159
30a	Total exposure measure (excluding the impact of any applicable temporary exemption of central bank reserves) incorporating mean values from row 28 of gross SFT assets (after adjustment for sale accounting transactions and netted of amounts of associated cash payables and cash receivables)	1,326	1,258
31	Leverage ratio (including the impact of any applicable temporary exemption of central bank reserves) incorporating mean values from row 28 of gross SFT assets (after adjustment for sale accounting transactions and netted of amounts of associated cash payables and cash receivables)	4.2%	4.7%
31a	Leverage ratio (excluding the impact of any applicable temporary exemption of central bank reserves) incorporating mean values from row 28 of gross SFT assets (after adjustment for sale accounting transactions and netted of amounts of associated cash payables and cash receivables)	4.2%	4.4%
	Memorandum items		
	Tier 1 capital (according to transitional rules)		55.4
	Total exposure measure (according to transitional rules)		1,125
	Leverage ratio (according to transitional rules, in %)		4.9%

N/M - Not meaningful

in € bn

EU LR3 - LRSpl: Split-up of on balance sheet exposures (excluding derivatives, SFTs and exempted exposures)

	(unless stated otherwise)	Jun 30, 2022	Dec 31, 2021
EU-1	Total on-balance sheet exposures (excluding derivatives, SFTs, and exempted exposures)	921	791
	of which:		
EU-2	Trading book exposures	116	106
EU-3	Banking book exposures	806	685
	of which:	'	
EU-4	Covered bonds	0	0
EU-5	Exposures treated as sovereigns	230	136
	Exposures to regional governments, MDB, international organizations and PSE, not treated as	<u> </u>	
EU-6	sovereigns	1	1
EU-7	Institutions	12	12
EU-8	Secured by mortgages of immovable properties	220	214
EU-9	Retail exposures	35	34
EU-10	Corporates	227	212
EU-11	Exposures in default	10	9
EU-12	Other exposures (e.g. equity, securitizations, and other non-credit obligation assets)	72	66

Process used to manage the risk of excessive leverage

Article 451 (1)(d) CRR and EU LRA

The Group Risk Committee (GRC) is mandated to oversee, control and monitor integrated planning of the Group's risk profile and capital capacity. The Group Asset and Liability Committee (ALCO) actively manages leverage exposure capacity within the Risk Appetite Framework via a limit setting process to

- Allocate group leverage exposure capacity to businesses;
- Support business achievement of strategic performance plans;
- Provide a firm basis for achieving the target leverage ratio;
- Incentivize businesses to make appropriate decisions on their portfolios, with consideration to asset maturity and encumbrance amongst others; and
- Maintain risk and leverage exposure discipline.

The governance framework ensures that the leverage exposure capacity is carefully decided to reach the Group's external leverage ratio target set for year end 2022 and avoids an excessive leverage of the bank and its divisions. The resulting leverage exposure limits include all assets including those inflating the Group's balance sheet through asset encumbrance. In

¹ Starting with the first quarter of 2022, the leverage ratio is presented as reported. The fully loaded definition has been discontinued in the first quarter 2022 due to immaterial differences

the case of divisions exceeding their agreed limits, charges are imposed on the division for the excess amount. The limit excess charges are calculated in accordance with the Group-wide limit-setting framework for leverage.

Factors that had an impact on the leverage ratio in the first half of 2022

Article 451 (1)(e) CRR and EU LRA

Since April 1, 2022 the Group no longer excludes certain central bank exposures from its leverage exposure. This temporary exemption during the COVID-19 pandemic, which was based on Article 429a (1) (n) CRR and the ECB Decision 2021/1074, ended on March 31, 2022. As a consequence, also the applicable minimum leverage ratio no longer has to be increased and is therefore at 3.0%.

As of June 30, 2022, the leverage ratio was 4.3% compared to 4.9% as of December 31, 2021. This takes into account a Tier 1 capital of \in 55.2 billion over an applicable exposure measure of \in 1,280 billion as of June 30, 2022 (\in 54.7 billion and \in 1,125 billion as of December 31, 2021, respectively). Not applying the temporary exclusion of certain central bank exposures amounting to \in 99 billion, the leverage exposure was \in 1,223 billion as of December 31, 2021, corresponding to a leverage ratio of 4.5%.

Not considering the temporary exclusion of certain central bank balance for December 31, 2021, in the first half of 2022 the leverage exposure increased by \in 57 billion to \in 1,280 billion, largely driven by the leverage exposure for the asset items not related to derivatives and SFTs which increased by \in 33 billion. This reflects the development of the balance sheet loans growth by \in 23 billion and the non-derivative trading assets increase by \in 4 billion. Pending settlements were unchanged on a net basis despite being \in 8 billion higher on a gross basis from seasonally low year-end levels. The remaining asset items increased by \in 20 billion, largely related to Held-to-collect debt securities. These increases were partly offset by cash and central bank/interbank balances which decreased by \in 14 billion. Off-balance sheet leverage exposures increased by \in 11 billion corresponding to higher notional amounts for irrevocable lending commitments. In addition, the leverage exposure related to derivatives increased by \in 10 billion. Furthermore, SFT-related items (securities purchased under resale agreements, securities borrowed and receivables from prime brokerage) increased by \in 3 billion, in line with the development on the balance sheet.

The increase in leverage exposure in the first half 2022 included a foreign exchange impact of € 37 billion, mainly due to the strengthening of the U.S. Dollar versus the Euro. The effects from foreign exchange rate movements are embedded in the movement of the leverage exposure items discussed in this section.

Credit risk and credit risk mitigation

General quantitative information on credit risk

Residual maturity breakdown of credit exposure

Article 442 (g) CRR

Table EU CR1-A provides the net credit exposures by maturities and exposure classes. The exposure amount includes onbalance sheet items, whereby the net exposure value is calculated by deducting credit risk adjustments from its gross carrying amount. The net exposure is split into the below 5 categories based on the residual contractual maturity of the instrument.

- On Demand where the counterparty has a choice of when the amount is repaid
- Bucketing remaining maturity 0 to 1 year, 1 to 5 years, and more than 5 years
- No stated maturity where an exposure has no stated maturity for reasons other than the counterparty having the choice
 of the repayment date

The breakdown into the exposure classes follows those as defined for the IRBA (i.e., combining the advanced and foundation IRB) as well as for the standardized approach. In the IRB approach, the line item "Central governments and central banks" includes exposures to regional governments or local authorities, public sector entities, multilateral developments banks and international organizations. The exposure class "Other items" within the standardized approach includes all exposures not covered in the other categories

EU CR1-A - Maturity of exposures

	_						Jun 30, 2022
		а	b	С	d	е	f
	_				Net e	xposure value	
				> 1 year		No stated	
_	in € m.	On demand	<= 1 year	<= 5 years	> 5 years	maturity	Total
1	Central governments and central banks	79,965	13,930	10,377	15,547	0	119,819
2	Institutions	6,183	4,406	1,586	1,233	0	13,408
3	Corporates	17,950	105,664	90,546	33,960	0	248,120
4	Retail	2,228	6,005	19,776	183,769	0	211,778
5	Equity	1,283	953	3	85	0	2,324
5a	Other non-credit obligation asset	3,970	2,703	720	4,282	0	11,675
6	Total IRB approach	111,578	133,661	123,010	238,876	0	607,124
7	Central governments or central banks	95,027	3,357	4,842	7,301	0	110,527
8	Regional governments or local authorities	27	2,225	334	347	0	2,933
9	Public sector entities	85	26	231	258	0	600
10	Multilateral development banks	0	48	426	218	0	692
11	International organizations	0	850	0	70	0	920
12	Institutions	147	24	1	2,666	0	2,838
13	Corporates	2,182	3,340	3,871	1,409	0	10,802
14	Retail	444	188	445	671	0	1,748
15	Secured by mortgages on immovable						
	property	571	495	769	3,231	0	5,066
16	Exposures in default ¹	137	145	196	349	0	827
17	Items associated with particularly high risk	14	3	4	54	0	75
18	Covered bonds	0	0	0	0	0	0
19	Claims on institutions and corporates with a						
	short-term credit assessment	0	0	0	0	0	0
20	Collective investments undertakings (CIU)	0	0	0	0	0	0
21	Equity exposures	0	0	0	0	0	0
22	Other items	0	7	0	0	0	7
23	Total standardized approach	98,498	10,563	10,922	16,224	0	136,207
24	Total	210,076	144,223	133,932	255,100	0	743,332

							Dec 31, 2021
	-	а	b	С	d	е	f
					Net e	xposure value	
				> 1 year		No stated	
	in € m.	On demand	<= 1 year	<= 5 years	> 5 years	maturity	Total
1	Central governments and central banks	86,010	9,969	11,584	10,653	0	118,215
2	Institutions	5,498	4,048	2,497	1,329	0	13,372
3	Corporates	15,257	104,641	79,889	30,644	0	230,431
4	Retail	2,248	5,543	20,061	180,997	0	208,849
5	Equity	1,336	773	0	69	0	2,178
5a	Other non-credit obligation asset	2,688	4,814	800	2,450	0	10,751
6	Total IRB approach	113,037	129,787	114,831	226,141	0	583,797
7	Central governments or central banks	104,307	5,493	2,115	3,180	0	115,096
8	Regional governments or local authorities	43	1,995	999	532	0	3,569
9	Public sector entities	62	129	69	420	0	681
10	Multilateral development banks	0	73	46	344	0	463
11	International organizations	0	727	0	82	0	808
12	Institutions	216	26	1	2,430	0	2,673
13	Corporates	2,675	6,546	4,262	1,732	0	15,215
14	Retail	429	176	435	643	0	1,683
15	Secured by mortgages on immovable						.,000
10	property	570	592	983	3,015	0	5,160
16	Exposures in default ¹	157	138	185	597	0	1,077
17	Items associated with particularly high risk	20	1	4	57	0	82
18	Covered bonds	0	0	0	0	0	0
19	Claims on institutions and corporates with a						
	short-term credit assessment	0	0	0	0	0	0
20	Collective investments undertakings (CIU)	0	0	0	0	0	0
21	Equity exposures	0	0	0	0	0	0
22	Other items	0	2	0	0	0	2
23	Total standardized approach	108,321	15,760	8,915	12,435		145,431
		111,021		2,0.0			,
24	Total	221,358	145,547	123,747	238,576	0	729,228

¹ In light of EBA guidance (Q&A 2017_3481) we present the defaulted exposure within the standardized approach as a total in row 16 but also show a breakdown of defaulted exposure and assign it to their respective exposure classes. In order to avoid double counting of exposures, the total exposure of the standardized approach as presented in row 23 does not take into account figures disclosed under row 16.

Quality of non-performing exposures by geography

The following 6 tables (EU CQ4, EU CQ5, EU CR1, EU CQ3, EU CR2 and EUCQ1) provide information on performing and non-performing exposures.

Relevant exposures are debt instruments (debt securities, loans, advances, demand deposits) as well as off-balance sheet exposures (loan commitments given, financial guarantees given and any other commitments) excluding those exposures held for trading.

The amounts shown are based on the IFRS gross carrying and nominal values according to the regulatory scope of consolidation. The gross carrying amount reflects the exposure value before deduction of accumulated impairment, provisions and accumulated negative changes due to credit risk for non-performing exposures.

An exposure is being classified as non-performing if it meets the non-performing criteria in Article 47a of the CRRand an exposure is classified as defaulted if it meets the definition of default as per Article 178 of the CRR. Exposures subject to impairment under IFRS 9 include debt instruments at amortized cost and fair value through OCI as well as off-balance sheet exposures.

Article 442 (c+e) CRR

Table EU CQ4 provides information about performing and non-performing exposures broken down by significant countries. For each reporting period Deutsche Bank considers the top 25 countries by exposure to be significant, as it represents more than 90% of the Group's total exposure. Immaterial exposures, with individual exposures being below € 3 billion, are included in "Other countries". The geographical distribution is based on the legal domicile of the counterparty or issuer.

EU CQ4 – Quality of non-performing exposures by geography

								Jun 30, 2022
		a	b	C	d	е	f	g
				Gross carrying/ne	ominal amount			Accumulated
		_	of which n	on-performing			Provisions on	negative changes in
				of which	of which subject to	Accumulated	off-balance- sheet commitments and financial	fair value due to credit risk on non- performing
	in € m.			defaulted	impairment	impairment	guarantees	exposures
1	On-balance-sheet exposures ¹	751,064	12,802	12,781	664,687	5,057	0	18
2	Australia	5,646	118	118	5,208	36	0	0
3	Austria	2,451	2	2	1,516	6	0	0
4	Belgium	2,581	24	19	2,547	2	0	0
5	Canada	4,234	0	0	2,806	8	0	0
6	Cayman Islands	26,578	194	194	11,949	11	0	0
7	China	5,678	57	57	5,614	13	0	0
8	France	13,974	72	72	7,371	21	0	0
9	Germany	261,791	3,947	3,945	258,708	2,188	0	0
10	Hong Kong	3,909	547	547	3,835	110	0	0
11	India	11,310	459	459	10,571	115	0	0
12	Ireland	10,138	822	822	6,958	111	0	0
13	Italy	36,077	1,438	1,438	35,457	1,047	0	0
14	Japan	12,504	102	102	3,896	9	0	0
15	Jersey	3,316	55	55	3,280	37	0	0
16	Luxembourg	17,205	54	54	15,689	31	0	0
17	Netherlands	12,459	244	240	12,022	88	0	13
18	Poland	6,067	89	89	5,875	45	0	1
19	Singapore	6,579	96	96	6,449	17	0	0
20	Spain	21,393	1,065	1,060	21,348	387	0	0
21	Sweden	2,014	51	51	1,606	3	0	0
22	Switzerland	7,908	429	429	7,680	36	0	0
23	Turkey	6,669	139	139	4,753	13	0	0
24	U.S.	167,076	1,732	1,731	137,371	338	0	0
25	United Kingdom	36,268	74	74	27,897	62	0	0
26	Virgin Islands, British	6,455	106	106	6,455	25	0	0
27	Other countries	60,783	886	883	55,663	296	0	4
28	Off-balance-sheet exposures	304,225	2,719	2,715	0	0	473	0
29	Australia	3,458	27	27	0	0	2	0
30	Austria	1,551	1	1	0			0
31	Belgium	2,665	20 0	20 0	0	0	5	0
32 33	Canada Cayman Islands	2,619 1,691	12	12	0	0	0	0
34	China	2,469	0	0	0	0	0	0
35	France	2,469 8,961	1	1	0	0	4	0
36	Germany	88,857	360	359	0	0	120	0
37	Hong Kong	1,542	58	58	0	0	4	0
38	India	4,079	10	10	0	0	3	0
39	Ireland	3,065	61	61	0	0	16	0
40	Italy	8,340	17	15	0	0	14	0
41	. *	1,174	0	0	0	0	1	0
42	Japan Jersey	875	7	7	0	0	1	0
42 43	Luxembourg	7,288	103	103	0	0	6	0
44	Netherlands	11,643	248	248	0	0	35	0
44 45	Poland	628	0	0	0	0	0	0
45 46	Singapore	3,279	5	5	0	0	2	0
4 0 47	Spain	6,691	75	74	0	0	22	0
4 <i>1</i> 48	Sweden	2,095	5	5	0	0	1	0
4 0 49	Switzerland	10,635	3	3	0	0	5	0
4 9 50	Turkey	337	4	4	0	0	2	0
51	U.S.	102,449	1,421	1,421	0	0	152	0
52	United Kingdom	10,596	29	29	0	0	11	0
53	Virgin Islands, British	386	0	0	0	0	0	0
54	Other countries	16,850	99	99	0	0	32	0
J .		1,055,288	15,521	15,496	664,687	5,057	473	18

⁵⁵ Total

The on-balance sheet exposure includes only debt securities and loans & advances

								Dec 31, 2021
		а	b	С	d	е	f	g
				Gross carrying/ne	ominal amount			Accumulated
		_	of which no	on-performing			Provisions on	negative changes in
							off-balance-	fair value due
					of which		sheet commitments	to credit risk on non-
	in 6 m			of which	subject to	Accumulated	and financial	performing
1	in € m. On-balance-sheet exposures¹	699,901	13,106	defaulted 12,768	impairment 613,640	impairment 4,895	guarantees	exposures 19
2	Australia	5,112	149	12,700	4,568	4,093	0	0
3	Belgium	2,471	12	12	2,430	2	0	0
4	Canada	2,844	0	0	2,006	2	0	0
5	Cayman Islands	21,254	179	179	9,566	13	0	0
6	China	5,895	46	46	5,810	3	0	0
7	France	20,295	82	82	6,995	22	0	0
8	Germany	251,564	3,986	3,949	248,168	2,234	0	0
9	Hong Kong	4,432	642	642	4,245	81	0	0
10	India	10,131	459	459	9,346	108	0	0
11 12	Ireland	10,118	846 1,552	724 1,546	6,485	126 1,063	0	0
13	Italy Japan	26,615 7,645	1,332	1,546	25,877 3,865	1,003	0	0
14	Jersey	2,316	110	110	2,271	37	0	0
15	Luxembourg	16,005	87	87	14,653	21	0	1
16	Netherlands	17,539	265	265	16,968	110	0	13
17	Poland	4,007	95	92	3,930	51	0	1
18	Saudi Arabia	1,612	0	0	1,612	0	0	0
19	Singapore	6,445	98	98	6,325	16	0	0
20	Spain	19,000	1,136	1,123	18,458	366	0	0
21	Sweden	1,872	1	1	1,494	6	0	0
22	Switzerland	14,532	384	384	14,391	29	0	0
23	Turkey	5,556	39	39	4,678	8	0	0
24	U.S.	150,552	1,949	1,816	121,367	298	0	0
25 26	United Kingdom Virgin Islands, British	30,526	124 70	123 70	20,180	56 33	0	0
27	Other countries	7,519 54,042	652	651	7,476 50,475	165	0	4
28	Off-balance-sheet exposures	282,745	2,713	2,700	0	0	449	0
29	Australia	2,706	44	44	0	0	1	0
30	Belgium	2,237	0	0	0	0	1	0
31	Canada	2,399	0	0	0	0	3	0
32	Cayman Islands	1,667	0	0	0	0	0	0
33	China	2,353	2	2	0	0	0	0
34	France	9,133	38	38	0	0	5	0
35	Germany	85,212	425	418	0	0	141	0
36	Hong Kong	2,014	58	58	0	0	4	0
37	India	4,197	16	16	0	0	2	0
38	Ireland	3,023	6	6	0	0	2	0
39 40	Italy	7,699 1,159	19 0	17 0	0	0	11 1	0
41	Japan Jersey	1,121	10	10	0	0	1	0
42	Luxembourg	7,194	49	49	0	0	6	0
43	Netherlands	10,644	227	227	0	0	21	0
44	Poland	574	0	0	0	0	0	0
45	Saudi Arabia	1,923	141	141	0	0	26	0
46	Singapore	2,539	4	4	0	0	3	0
47	Spain	6,510	73	72	0	0	18	0
48	Sweden	1,931	0	0	0	0	1	0
49	Switzerland	9,233	56	56	0	0	3	0
50	Turkey	184	9	9	0	0	0	0
51	U.S.	90,469	1,368	1,368	0	0	163	0
52	United Kingdom	10,372	44	44	0	0	9	0
53 54	Virgin Islands, British	72	124	0	0	0	0	0
54	Other countries	16,184	124	121			29	
55	Total	982,646	15,819	15,468	613,640	4,895	449	19

Total

The on-balance sheet exposure includes only debt securities and loans & advances

Credit quality of loans and advances to non-financial corporations by industry

Article 442 (c+e) CRR

Table EU CQ5 provides information about performing and non-performing exposures to non-financial corporations broken down by industry. The industry classification is based on NACE codes. NACE (Nomenclature des Activités Économiques dans la Communauté Européenne) is a European industry standard classification system for classifying business activities.

EU CQ5 - Credit quality of loans and advances to non-financial corporations by industry

							Jun 30, 2022
		а	b	С	d	е	f
				Gross ca	rrying amount	_	Accumulated
		_	of which no	n-performing			negative changes in
	in € m.			of which defaulted	of which loans and advances subject to impairment	Accumulated impairment	fair value due to credit risk on non- performing exposures
1	Agriculture, forestry and fishing	540	29	29	540	10	0
2	Mining and quarrying	2,851	40	40	2,812	25	0
3	Manufacturing	34,501	1,322	1,322	34,493	609	0
	Electricity, gas, steam and						
4	air conditioning supply	5,021	168	168	5,021	68	0
5	Water supply	548	49	49	548	9	0
6	Construction	4,738	381	380	4,735	203	0
7	Wholesale and retail trade	24,760	824	824	24,736	457	0
8	Transport and storage	6,519	267	265	6,493	91	0
	Accommodation and food service						
9	activities	2,127	136	136	2,127	71	0
10	Information and communication	8,521	144	144	8,518	109	0
11	Financial and insurance activities	36,967	1,101	1,101	36,129	384	0
12	Real estate activities	45,734	940	940	45,615	191	0
13	Professional, scientific and technical activities	9,458	197	192	9,458	105	0
	Administrative and support service						
14	activities	9,101	418	418	9,031	119	0
	Public administration and defense,						
15	compulsory social security	1,720	0	0	342	0	0
16	Education	271	5	5	271	3	0
16 17	Human health services and social work activities	4,460	95	95	4,435	28	0
18	Arts, entertainment and recreation	1,134	31	30	1,134	8	0
19	Other service activities	9,876	237	233	9,861	118	4
20	Total	208,847	6,383	6,370	206,301	2,610	4

							Dec 31, 2021
		а	b	С	d	е	f
				Gross ca	arrying amount		Accumulated
		_	of which no	on-performing			negative changes in
	in € m.			of which defaulted	of which loans and advances subject to impairment	Accumulated impairment	fair value due to credit risk on non- performing exposures
1	Agriculture, forestry and fishing	646	30	29	646	12	0
2	Mining and guarrying	2,958	63	63	2,958	17	0
3	Manufacturing	37,719	1,112	1,043	37,692	532	0
	Electricity, gas, steam and						
4	air conditioning supply	4,728	117	117	4,683	45	0
<u>4</u> <u>5</u> 6	Water supply	484	50	50	484	11	0
6	Construction	4,408	390	389	4,406	192	0
7	Wholesale and retail trade	22,728	785	782	22,695	436	0
8	Transport and storage	5,824	364	364	5,736	75	0
	Accommodation and food service	0.070	440	4.40	0.070	70	
9	activities	2,273	140	140	2,273	70	0
10 11	Information and communication	7,513	172	172	7,433	112	0
11	Financial and insurance activities	32,064	1,2081	1,130 ¹	31,243 ¹	329 ¹	0
12	Real estate activities	41,219	1,1071	1,107 ¹	41,1771	180 ¹	0
13	Professional, scientific and technical activities	9,164	235	230	9,164	104	0
14	Administrative and support service activities	10,786	511	511	10,715	193	0
	Public administration and defense,						
15	compulsory social security	1,434	0	0	338	0	0
15 16	Education	218	5	5	218	3	0
17	Human health services and social work activities	4,023	106	105	3,998	28	0
17 18	Arts, entertainment and recreation	1,076	13	12	1,076	8	0
19	Other service activities	7,749	205	202	7,744	106 ¹	4
20	Total	197,015	6,613	6,450	194,680	2,452 ¹	4

¹ Comparatives aligned to current presentation

Performing and non-performing exposures and related provisions

Article 442 (c) CRR

Table EU CR1 provides information about performing and non-performing exposures broken down by Supervisory Reporting counterparty classes.

EU CR1 - Performing and non-performing exposures and related provisions

															Jun 30, 2022
-	a	b	С	d	е	f	g	h	i	j	k	<u> </u>	m	n	0
				Gross carryi	ng amount/nom	ninal amount				impairment, acc n fair value due					
		Performin	g exposures		Non-performin	g exposures	Performin	g exposures - a	accumulated	impairment, acc	ng exposures - umulated nega value due to c	tive changes			and financial s received on
in € m.	Total	of which: stage 1	of which: stage 2	Total	of which: stage 2	of which: stage 3	Total	of which: stage 1	of which: stage 2	Total	of which: stage 2	of which:	Accumula- ted partial write-off	performing exposures	non- performing exposures
Cash balances at central	Total	Stage 1	Stage 2	Total	stage 2	stage 5	Total	stage i	Stage 2	Total	Stage 2	stage 5	WITE-OII	ехрозитез	ехрозитез
banks and other demand															
deposits	182,554	181,763	791	81	0	81	14	9	5	0	0	0	0	112	0
Loans and advances	.,														
Central banks	6,646	2,762	47	0	0	0	0	0	0	0	0	0	0	5,571	0
General governments	19,409	15,743	1,683	98	0	98	11	5	6	5	0	5	0	4,929	91
Credit institutions	50,753	37,337	1,278	33	0	33	35	34	2	0	0	0	0	15,328	0
Other financial															
corporations	191,843	128,570	3,749	1,323	8	1,027	81	65	15	67	0	47	2	105,957	382
Non-financial	·			<u> </u>						·					
corporations	202,463	177,684	22,391	6,383	19	5,617	477	218	259	2,137	1	2,027	115	100,353	2,488
of which: SMEs	30,462	24,987	5,447	1,391	8	1,219	79	22	57	573	0	567	3	21,160	527
Households	210,448	193,940	16,508	4,476	162	4,309	552	212	341	1,563	17	1,545	14	149,299	1,960
Total Loans and	·		,									,	•		
advances	681,562	556,035	45,657	12,314	189	11,084	1,156	533	623	3,773	17	3,624	131	381,437	4,921
	.,														
Debt securities															
Central banks	835	835	0	0	0	0	0	0	0	0	0	0	0	0	0
General governments	43,160	41,114	98	19	0	19	23	23	1	9	0	9	0	0	0
Credit institutions	2,022	2,010	0	0	0	0	0	0	0	0	0	0	0	0	0
Other financial															
corporations	6,103	4,654	227	26	0	0	14	8	6	13	0	0	0	163	0
Non-financial														•	
corporations	4,579	1,519	68	443	0	366	22	21	1_	65	0	65	0	37	260
Total Debt securities	56,700	50,132	392	488	0	386	59	52	7	87	0	74	0	200	260
Off-balance sheet		<u>,</u>													
exposures															
Central banks	122	120	2	0	0	0	1	1	0	0	0	0	0	17	0
General governments	2,942	2,586	356	2	0	2	2	1	1	0	0	0	0	139	0
Credit institutions	7,856	7,795	61	1	0	1	4	4	0	0	0	0	0	680	0
Other financial															
corporations	44,304	43,005	1,299	245	0	244	20	16	4	21	0	21	0	9,391	0
Non-financial															
corporations	212,677	198,063	14,613	2,376	0	2,351	209	127	83	179	0	179	0	21,796	447
Households	33,604	32,341	1,263	96	2	94	25	8	17	10	0	10	0	9,140	25
Total Off-balance sheet															
exposures	301,505	283,910	17,595	2,719	3	2,692	262	157	105	211	0	211	0	41,164	472
Total ¹	1,222,321	1,071,840	64,435	15,602	191	14,242	1.491	751	740	4.071	17	3,910	131	422,913	5,653

¹ Total including Cash balances at central banks and other demand deposits.

															Dec 31, 2021
	а	b	С	d	е	f	g	h	i	j	k	I	m	n	0
				Gross carry	ring amount/nom	ninal amount		_	Accumulated	d impairment, acc in fair value due					
		Performin	g exposures		Non-performin	g exposures	Performir	ng exposures - impairment ar		impairment, acc	ng exposures - a cumulated negat r value due to cr	tive changes			and financial s received on
in € m.	Total	of which: stage 1	of which: stage 2	Total	of which: stage 2	of which: stage 3	Total	of which: stage 1	of which: stage 2	Total	of which: stage 2	of which: stage 3	Accumula- ted partial write-off	performing exposures	non- performing exposures
Cash balances at central banks and other demand deposits	197,089	196,797	292	27	0	27	5	5	0	0	0	0	0	0	0
Loans and advances			· ·		· ·		· •			··	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Central banks	6,012	2,376	44	0	0	0	0	0	0	0	0	0	0	5,439	0
General governments	14,299	11,509	1,918	49	0	49	13	2	11	5	0	5	0	3,617	40
Credit institutions	48,710	35,849	670	9	0	9	25	25	0	0	0	0	0	17,025	0
Other financial	.0,0	00,0.0												,020	
corporations	175,825	111,911	3,417	1,302	0	967	66	48	18	67	0	49	6	100,826	440
Non-financial	,	,	-,	.,											
corporations	190,402	168,843	19,297	6,613	24	5,847	350	154	195	2,030	1	1,926	126	91,332	2,685
of which: SMEs	28,516	24,321	4,182	1,410	8	1,335	66	19	46	555	0	554	18	19,550	467
Households	207,290	192,675	14,614	4,649	160	4,474	521	224	298	1,755	16	1,737	22	145,658	1,978
Total Loans and								-				, -	-		
advances	642,538	523,163	39,958	12,621	184	11,345	975	453	522	3,858	17	3,718	153	363,897	5,144
Debt securities															
Central banks	672	672	0	0	0	0	0	0	0	0	0	0	0	0	0
General governments	30,539	28,643	73	0	0	0	8	7	0	0	0	0	0	0	0
Credit institutions	2,468	2,363	0	0	0	0	1	1	0	0	0	0	0	0	0
Other financial							-								
corporations	6,216	4,486	211	39	0	25	6	2	4	13	0	0	0	162	0
Non-financial															
corporations	4,363	1,224	3	446	0	378	10	10	0	45	0	45	0	37	62
Total Debt securities	44,258	37,387	288	485	0	403	24	19	4	58	0	45	0	200	62
Off-balance sheet															
exposures															
Central banks	32	27	5	72	0	72	0	0	0	0	0	0	0	11	5
General governments	2,778	2,282	496	10	0	10	2	11	2	0	0	0	0	168	6
Credit institutions	7,858	7,661	197	0	0	0	1	1	0	0	0	0	0	376	0
Other financial															
corporations	40,053	38,846	1,207	205	0	205	15	11	5	8	0	8	0	6,883	31
Non-financial															
corporations	198,183	186,837	11,346	2,346	6	2,329	165	85	80	202	0	202	0	19,914	405
Households	31,128	29,965	1,162	80	2	78	40	16	24	16	0	15	0	7,552	36
Total Off-balance sheet															
exposures	280,032	265,618	14,413	2,713	8	2,694	224	113	110	225	0	225	0	34,903	483
Total ¹	1,163,916	1,022,966	54,952	15,847	192	14,470	1,227	590	637	4,141	17	3,988	153	398,999	5,689

¹ Total including Cash balances at central banks and other demand deposits.

Credit quality of performing and non-performing exposures by past due days

Article 442 (c-d) CRR

Table EU CQ4 provides information about performing and non-performing exposures by past due days broken down by Supervisory Reporting counterparty classes.

EU CQ3 - Credit quality of performing and non-performing exposures by past due days

												Jun 30, 2022
	a	b	С	d	е	f	g	h	i	j	k	I_
	-	Perform	ing exposures								Non-perform	ning exposure
		Not past due	Past		Unlikely to pay that are not past due	Past	Past	Past	Past due	Past due	B	
in € m.	Total	or past due <= 30 days	due >30d and <=90d	Total	or past due <= 90d	due >90d and <=180d	due >180d and <=1yr	due >1yr and <=2yrs	>2 and <=5 yrs	>5 and <=7yrs	Past due >7 years	of which defaulted
Cash balances at central banks and other demand deposits	182.554	182.026	527.5622	80.5438	80.5438	0	0	0	0	0	0	80.5438
Loans and advances					-			-		-		
Central banks	6,646	6,646	0	0	0	0	0	0	0	0	0	0
General governments	19,409	19,409	0	98	97	0	0	0	1	0	0	98
Credit institutions	50,753	50,753	0	33	33	0	0	0	0	0	0	33
Other financial corporations	191,843	191,700	143	1,323	1,216	3	3	8	93	0	1	1,316
Non-financial corporations	202,463	202,250	213	6,383	4,348	399	256	360	509	159	353	6,370
of which:	- -		-		-		-					
SME's	30,462	30,434	28	1,391	781	41	48	117	200	86	118	1,383
Households	210,448	209,998	450	4,476	2,326	311	440	535	550	113	201	4,476
Total Loans and advances	681,562	680,756	805	12,314	8,020	713	699	902	1,152	272	555	12,293
Debt securities	_							_				
Central banks	835	835	0	0	0	0	0	0	0	0	0	0
General governments	43,160	43,160	0	19	19	0	0	0	0	0	0	19
Credit institutions	2,022	2,022	0	0	0	0	0	0	0	0	0	0
Other financial corporations	6,103	6,103	0	26	26	0	0	0	0	0	0	26
Non-financial corporations	4,579	4,538	41	443	250	193	0	0	0	0	0	443
Total Debt securities	56,700	56,658	41	488	295	193	0	0	0	0	0	488
Off-balance sheet exposures												
Central banks	122	0	0	0	0	0	0	0	0	0	0	0
General governments	2,942	0	0	2	0	0	0	0	0	0	0	2
Credit institutions	7,856	0	0	1	0	0	0	0	0	0	0	1
Other financial corporations	44,304	0	0	245	0	0	0	0	0	0	0	245
Non-financial corporations	212,677	0	0	2,376	0	0	0	0	0	0	0	2,371
Households	33,604	0	0	96	0	0	0	0	0	0	0	96
Total Off-balance sheet exposures	301,505	0	0	2,719	0	0	0	0	0	0	0	2,715
Total ¹	1,222,321	919,441	1,374	15,602	8,396	906	699	902	1,152	272	555	15,576

¹ Total including Cash balances at central banks and other demand deposits.

												Dec 31, 2021
	а	b	С	d	е	f	g	h	i	j	k	I
		Performi	ing exposures								Non-perform	ning exposure
		Not past due or past due	Past due >30d		Unlikely to pay that are not past due or past due	Past due >90d	Past due >180d	Past due >1yr	Past due >2 and <=5	Past due >5 and	Past due	of which
in € m.	Total	<= 30 days	and <=90d	Total	<= 90d	and <=180d	and <=1yr	and <=2yrs	yrs	<=7yrs	>7 years	defaulted
Cash balances at central banks and other demand deposits	197,089	197,089	0	27.4371	27.4371	0	0	0	0	0	0	27.4371
Loans and advances												
Central banks	6,012	6,012	0	0	0	0	0	0	0	0	0	0
General governments	14,299	14,299	0	49	47	0	0	0	1	0	1	49
Credit institutions	48,710	48,710	0	9	9	0	0	0	0	0	0	9
Other financial corporations	175,825	175,741	84	1,302	1,127	2	61	8	102	1	1	1,302
Non-financial corporations	190,402	190,264	138	6,613	4,814	239	362	246	440	166	345	6,450
of which:												
SME's	28,516	28,498	18	1,410	846	33	43	91	203	85	109	1,339
Households	207,290	206,930	360	4,649	2,374	312	503	467	646	113	235	4,474
Total Loans and advances	642,538	641,956	582	12,621	8,371	553	926	721	1,189	280	582	12,283
Debt securities Central banks	672	672	0	0	0		0	0	0	0	0	0
Central banks	672	672 30.539	0	0	0	0	0	0	0	0	0	0
Central banks General governments	30,539	30,539	0	0	0	0	0	0	0	0		0
Central banks											0	
Central banks General governments Credit institutions	30,539 2,468	30,539 2,468	0	0	0	0	0	0	0	0	0	0
Central banks General governments Credit institutions Other financial corporations	30,539 2,468 6,216	30,539 2,468 6,216	0 0	0 0 39	0 0 39	0 0	0 0	0 0 0	0 0 0	0 0	0 0	0 0 39
Central banks General governments Credit institutions Other financial corporations Non-financial corporations Total Debt securities	30,539 2,468 6,216 4,363	30,539 2,468 6,216 4,363	0 0 0 0	0 0 39 446	0 0 39 446	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 39 446
Central banks General governments Credit institutions Other financial corporations Non-financial corporations	30,539 2,468 6,216 4,363	30,539 2,468 6,216 4,363	0 0 0 0	0 0 39 446	0 0 39 446	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 39 446
Central banks General governments Credit institutions Other financial corporations Non-financial corporations Total Debt securities Off-balance sheet exposures	30,539 2,468 6,216 4,363 44,258	30,539 2,468 6,216 4,363 44,258	0 0 0 0	0 0 39 446 485	0 0 39 446 485	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 39 446 485
Central banks General governments Credit institutions Other financial corporations Non-financial corporations Total Debt securities Off-balance sheet exposures Central banks	30,539 2,468 6,216 4,363 44,258	30,539 2,468 6,216 4,363 44,258	0 0 0 0 0	0 0 39 446 485	0 0 39 446 485	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 39 446 485
Central banks General governments Credit institutions Other financial corporations Non-financial corporations Total Debt securities Off-balance sheet exposures Central banks General governments	30,539 2,468 6,216 4,363 44,258	30,539 2,468 6,216 4,363 44,258	0 0 0 0 0	0 0 39 446 485	0 0 39 446 485	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 39 446 485
Central banks General governments Credit institutions Other financial corporations Non-financial corporations Total Debt securities Off-balance sheet exposures Central banks General governments Credit institutions	30,539 2,468 6,216 4,363 44,258 32 2,778 7,858	30,539 2,468 6,216 4,363 44,258	0 0 0 0 0 0	0 0 39 446 485	0 0 39 446 485	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 39 446 485
Central banks General governments Credit institutions Other financial corporations Non-financial corporations Total Debt securities Off-balance sheet exposures Central banks General governments Credit institutions Other financial corporations	30,539 2,468 6,216 4,363 44,258 32 2,778 7,858 40,053	30,539 2,468 6,216 4,363 44,258	0 0 0 0 0 0	0 0 39 446 485 72 10 0 205	0 0 39 446 485	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 39 446 485 72 6 0 205
Central banks General governments Credit institutions Other financial corporations Non-financial corporations Total Debt securities Off-balance sheet exposures Central banks General governments Credit institutions Other financial corporations Non-financial corporations	30,539 2,468 6,216 4,363 44,258 32 2,778 7,858 40,053 198,183	30,539 2,468 6,216 4,363 44,258	0 0 0 0 0 0	0 0 39 446 485 72 10 0 205 2,346	0 0 39 446 485	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 39 446 485 72 6 0 205 2,339

¹ Total including Cash balances at central banks and other demand deposits.

Development of non-performing loans and advances

Article 442 (f) CRR

EU CR2 - Changes in the stock of non-performing loans and advances

		Jun 30, 2022	Dec 31, 2021
		a	а
	in € m.	Gross carrying amount	Gross carrying amount
1	Initial stock of non-performing loans and advances	12,621	12,656
2	Inflows to non-performing portfolios	2,629	2,742
3	Outflows from non-performing portfolios	(2,937)	(2,777)
4	Outflows due to write-offs	(439)	(340)
5	Outflow due to other situations ¹	(2,498)	(2,437)
6	Final stock of non-performing loans and advances	12,314	12,621

 $^{^{\}rm 1}$ Inflows and outflows include restructurings and modifications.

Credit quality of forborne exposures

Article 442 (c) CRR

Exposures are being classified as forborne according to the criteria in Article 47b of the CRR. Of the total forborne exposures of € 15 billion included in the table below, € 5.5 billion is related to COVID-19 related forbearance measures, of which more than 87% is performing.

EU CQ1 - Credit quality of forborne exposures

_								Jun 30, 2022
_	а	b	С	d	е	f	g	h
		Gross carr	ying amount of fo	rborne exposures	accumulated r	ated impairment, negative changes due to credit risk and provisions		ved and financial eived on forborne exposures
in € m.	Performing forborne	Non- performing forborne	Non- performing forborne, of which defaulted	Non- performing forborne, of which impaired	on performing forborne exposures	on non-perfor- ming forborne exposures	Total	of which, non- performing ex- posures with forbearance measures
Cash balances at central banks and other demand deposits	0	0	0	0	0	0	0	0
Loans and								
advances	8,009	4,672	4,652	4,525	75	1,151	8,031	2,351
Central banks	0	0	0	0	0	0	0	0
General governments	139	2	2	2	0	1	132	0
Credit	100						102	
institutions	0	9	9	9	0	0	0	0
Other financial				· - <u> </u>				
corporations	669	337	337	337	3	16	703	204
Non-financial								
corporations	5,823	2,784	2,781	2,654	47	774	5,412	1,240
Households	1,378	1,539	1,523	1,523	26	359	1,784	907
Debt securities	96	240	240	193	0	0	193	193
Loan commitments								
given	1,785	247	247	247	14	24	159	20
Total ¹	9,890	5,158	5,139	4,965	89	1,175	8,382	2,564

¹ Total including Cash balances at central banks and other demand deposits.

								Dec 31, 2021
	а	b	С	d	е	f	g	h
		Gross carr	ying amount of fo	rborne exposures	accumulated r	ated impairment, legative changes due to credit risk and provisions		ved and financial ived on forborne exposures
in € m.	Performing forborne	Non- performing forborne	Non- performing forborne, of which defaulted	Non- performing forborne, of which impaired	on performing forborne exposures	on non-perfor- ming forborne exposures	Total	of which, non- performing ex- posures with forbearance measures
Cash balances at central banks and other demand			_					
deposits	0	0	0	0	0	0	0	0
Loans and advances	8,781	4,847	4,793	4,788	84	1,255	8,672	2,440
Central banks	0,701	0	4,795	4,700	0	1,233	0,072	2,440
General								
governments	129	24	24	24	0	2	143	22
Credit institutions	0	9	9	9	0	0	0	0
Other financial corporations	865	369	369	369	5	24	909	236
Non-financial								
corporations	6,463	2,869	2,833	2,828	52	844	5,956	1,296
Households	1,323	1,576	1,558	1,558	28	385	1,664	886
Debt securities	395	256	256	213	0	0	16	0
Loan commitments								
given	2,776	341	331	331	15	35	451	17
Total	11,952	5,443	5,380	5,332	99	1,290	9,140	2,457

¹ Total including Cash balances at central banks and other demand deposits.

Minimum loss coverage for non-performing exposure

Minimum loss coverage for non-performing exposure under Pillar 1

On April 25, 2019 the European Commission published the amendment on Regulation (EU) 2019/630 on minimum loss coverage on non-performing exposure. This regulation established a prudential treatment for NPEs arising from loans originated from April 26, 2019 onwards ("CRR - NPE Flow") and represents a Pillar 1 measure which is legally binding and applies to all banks established in the EU.

The CRR regulation on minimum loss coverage for non-performing exposure does not focus on NPEs arising from loans originated before April 26, 2019 ("CRR - NPE Stock").

The following table provides an overview on Deutsche Bank's CRR NPE Flow as of June 30, 2022 and December 31, 2021.

CRR - NPE Flow

				Jun 30, 2022
	Time pas			
in € m.	up to 2yrs	>2 and <=9yrs	>9yrs	Total
Non-Performing Exposure	2,925	733	0	3,658
Exposure value ¹	3,344	882	0	4,225
Total minimum coverage requirement	0	243	0	243
Total provisions and adjustments or deductions (uncapped)	934	270	0	1,204
Total provisions and adjustments or deductions (capped)	0	168	0	168
Applicable amount of insufficient coverage	0	74	0	74

¹ Exposure value in accordance with Article 47c CRR

				Dec 31, 2021	
	Time pas	ssified as non- performing			
in € m.	up to 2yrs	>2 and <=9yrs	>9yrs	Total	
Non-Performing Exposure	2,556	280	0	2,836	
Exposure value ¹	2,888	372	0	3,260	
Total minimum coverage requirement	0	105	0	105	
Total provisions and adjustments or deductions (uncapped)	784	192	0	975	
Total provisions and adjustments or deductions (capped)	0	74	0	74	
Applicable amount of insufficient coverage	0	31	0	31	

¹ Exposure value in accordance with Article 47c CRR

Minimum loss coverage for non-performing exposure under Pillar 2

Non-performing exposures arising from clients defaulting after April 1, 2018

In March 2018 ECB published its "Addendum to the ECB Guidance to banks on non-performing loans: supervisory expectations for prudential provisioning of non-performing exposures". The guidance focus on NPEs arising from clients defaulting after April 1, 2018 ("ECB – NPE Flow"). Like for the CRR – NPE Flow a time dependent minimum loss coverage is required. The ECB guidance represents a Pillar 2 measure and its application is subject to a supervisory dialog between the bank and the ECB in context of the annual SREP process.

The ECB – NPE Flow and the CRR – NPE Flow differ in the following three key aspects:

- Timing of application: Exposures defaulting after April 1, 2018 are in scope of the ECB NPE Flow, but are only in scope of the CRR – NPE Flow if loans are originated after April 26, 2019.
- Treatment of loans in the trading book / traded assets: CRR NPE Flow excludes all loans in the regulatory trading book whereas the ECB – NPE Flow excludes traded assets in accordance with the accounting classifications.
- Treatment of Forbearance Measuring CRR NPE Flow considers a one year freeze period of minimum loss coverage for exposures where a forbearance measure has been granted. This freeze period for loans with forbearance measure does not exist under the ECB – NPE Flow.

As long as the aforementioned differences exist, Deutsche Bank will report in the following table all NPE exposures under the ECB – NPE Flow, which are not covered in the CRR – NPE Flow.

The following table provides an overview on Deutsche Bank's ECB – NPE Flow as of June 30, 2022 and December 31, 2021, not reflected within the CRR – NPE Flow:

ECB - NPE Flow

				Jun 30, 2022
	Time pas			
in € m.	up to 2yrs	>2 and <=9yrs	>9yrs	Total
Non-Performing Exposure	5,796	3,5460	0	9,342
Exposure value ¹	5,864	3,7790	0	9,643
Total minimum coverage requirement	0	1,4510	0	1,451
Total provisions and adjustments or deductions (uncapped)	1,244	1,4340	0	2,678
Total provisions and adjustments or deductions (capped)	0	9940	0	994
Applicable amount of insufficient coverage	0	4570	0	457

¹ Exposure value in accordance with Article 47c CRR

				Dec 31, 2021
	Time pas			
in € m.	up to 2yrs	>2 and <=9yrs	>9yrs	Total
Non-Performing Exposure	8,064	2,211 ⁰	0	10,276
Exposure value ¹	8,305	2,517 ⁰	0	10,822
Total minimum coverage requirement	0	1,018 ⁰	0	1,018 ²
Total provisions and adjustments or deductions (uncapped)	1,660	1,0860	0	2,747
Total provisions and adjustments or deductions (capped)	0	729 ⁰	0	729 ²
Applicable amount of insufficient coverage	0	289 ⁰	0	289

¹ Exposure value in accordance with Article 47c CRR

Non-performing exposures arising from clients defaulting before April 1, 2018

ECB announced on July 11, 2018 that legacy stock of NPEs would be addressed by discussing bank-specific supervisory expectations for the provisioning of NPEs.

In August 2019, the ECB published its "Communication on supervisory coverage expectations for NPEs" introducing a minimum loss coverage expectation for NPEs arising from clients defaulting before April 1, 2018 (ECB – NPE Stock).

In a first step, banks were allocated to three comparable groups on the basis of the bank's net NPL ratios at the end of 2017 and in a second step an assessment of capacity regarding the potential impact was carried out for each individual bank with a horizon of end 2026.

Deutsche Bank has been assigned to Group 1, which requires 100% minimum loss coverage by year end 2024 for secured loans and by year end 2023 for unsecured loans.

² Prior year's comparatives aligned to presentation in the current year

The following table provides an overview on Deutsche Bank's ECB - NPE Stock as of June 30, 2022 and December 31, 2021.

ECB - NPE Stock

				Jun 30, 2022
	Time pas			
in € m.	up to 2yrs	>2 and <=9yrs	>9yrs	Total
Non-Performing Exposure	0	1,993	531	2,523
Exposure value ¹	0	4,154	6,658	10,812
Total minimum coverage requirement	0	2,717	5,316	8,034
Total provisions and adjustments or deductions (uncapped)	0	2,933	6,468	9,401
Total provisions and adjustments or deductions (capped)	0	2,476	5,236	7,712
Applicable amount of insufficient coverage	0	241	80	322

¹ Exposure value in accordance with Article 47c CRR

				Dec 31, 2021
	Time pas			
in € m.	up to 2yrs	>2 and <=9yrs	>9yrs	Total
Non-Performing Exposure	0	2,067	669	2,736
Exposure value ¹	0	4,943	6,786	11,729
Total minimum coverage requirement	0	3,350	5,418	8,769
Total provisions and adjustments or deductions (uncapped)	0	3,555	6,539	10,094
Total provisions and adjustments or deductions (capped)	0	3,031	5,309	8,340
Applicable amount of insufficient coverage	0	319	109	428

¹ Exposure value in accordance with Article 47c CRR

The shortfall between the minimum loss coverage requirements for non-performing exposure for ECB – NPE Flow and ECB - NPE Stock and the risk reserves recorded in line with IFRS 9 for defaulted (Stage 3) assets amounted to € 853 million as of June 30, 2022 versus € 748 million as of December 31, 2021 and was deducted from CET 1. This additional CET 1 charge can be considered as additional loss reserve and led to a € 420 million RWA relief in June 30, 2022 and € 384 million in December 31, 2021.

Reconciliation of non-performing exposure

The following table reconciles the non-performing exposure reported in template EU CR1 into the minimum loss coverage framework.

Reconciliation of non-performing exposure

		Juli 30, 2022
in € m.	Exposure	Provisions
Total Non-Performing Exposure and related provisions	15,602	4,071
of which:		
CRR – NPE Flow	3,658	860
ECB – NPE Flow	9,421	2,074
ECB – NPE Stock	2,523	1,137

¹ Treatment of loans in the Trading Book / Traded Assets: CRR – NPE Flow excludes all loans in the regulatory Trading Book whereas the ECB – NPE Flow excludes Traded Assets in accordance with the accounting classifications

	Dec 31, 1				
in € m.	Exposure	Provisions			
Total Non-Performing Exposure and related provisions	15,847	4,141			
of which:					
CRR – NPE Flow	2,836	678			
ECB – NPE Flow	10,276	2,132			
ECB – NPE Stock	2,736	1,331			

¹ Treatment of loans in the Trading Book / Traded Assets: CRR – NPE Flow excludes all loans in the regulatory Trading Book whereas the ECB – NPE Flow excludes Traded Assets in accordance with the accounting classifications

Collateral obtained by taking possession

Article 442 (c) CRR

Table EU CQ7 provides information about the collateral that has been obtained at the reporting date. Collateral obtained by taking possession includes assets that were not pledged by the debtor as collateral but obtained in exchange for the cancellation of debt.

The value at initial recognition reflects the gross carrying amount at the point in time of the initial recognition in the Group's balance sheet, while accumulated negative changes reflect the difference between the value at initial recognition and the carrying amount at the reporting date.

EU CQ7 - Collateral obtained by taking possession and execution processes

			Jun 30, 2022		Dec 31, 2021	
		a	b	а	b	
		Collateral obt	Collateral obtained by taking possession			
	in € m.	Value at initial recognition	Accumulated negative changes	Value at initial recognition	Accumulated negative changes	
1	Property, plant and equipment (PP&E)	0	0	0	0	
2	Other than PP&E	44	33	46	35	
3	Residential immovable property	38	28	39	30	
4	Commercial immovable property	6	5	7	5	
5	Movable property (auto, shipping, etc.)	0	0	0	0	
6	Equity and debt instruments	0	0	0	0	
7	Other	0	0	0	0	
8	Total	44	33	46	35	

Exposures subject to measures applied in response to the COVID-19 pandemic

In 2020, EBA issued a "Statement on the application of the prudential framework regarding Default, Forbearance and IFRS 9 in light of COVID-19 measures", along with guidance on legislative and non-legislative moratoria. On December 2, 2020 after closely monitoring the developments of the COVID-19 pandemic and, in particular, the impact of the second COVID-19 wave and the related government restrictions taken in many EU countries, EBA reactivated its guidelines on legislative and non-legislative moratoria which applied until March 31, 2021.

COVID-19 template 1 provides details on the small amount of loans and advances that continue to be subject to EBA-compliant moratoria (legislative and non-legislative).

COVID-19 template 1: Information on loans and advances subject to legislative and non-legislative moratoria¹

Jun 30, 2022 b d е n 0 g Gross carrying amount Accumulated impairment, accumulated negative changes in fair value due to credit risk Performing Performing Non-performing Non-performing Of which: Of which: Instruments Instruments with with significant significant increase in increase in credit risk credit risk Gross since initial Of which: since initial Of which: carrying Of which: Unlikely to recognition Of which: Of which: recognition Of which: Unlikely to amount pay that are exposures but not exposures exposures but not exposures pay that are Inflows to creditwith not past-due with creditwith not past-due nonperforming forbearance impaired forbearance or past-due forbearance impaired forbearance or past-due in € m. Total (Stage 2) measures <= 90 days Total Total measures (Stage 2) Total measures <= 90 days Total exposures Loans and advances subject to moratorium 5 (0) (0)(0)(0)(0)(0)(0)0 of which: 2 Households 3 3 3 2 0 5 (0) (0) (0) (0) (0) (0) (0) 0 of which: Collateraliz ed by residential immovable (0)property 3 5 (0)(0)(0)(0)(0)(0)of which: Non-financial corporations 0 0 0 0 0 0 0 (0) (0) (0)0 (0)0 of which: Small and Mediumsized (0) Enterprises 0 0 0 0 0 0 0 (0) (0) 0 0 0 (0) 0 of which: Collateraliz ed by 6 commercial immovable 0 0 0 0 0 0 0 0 (0) property 0 0 0 0

¹ Template 1 includes only loans and advances subject to active legislative and non-legislative moratoria.

	_															Dec 31, 2021
	_	b	C	d	е	f	g	a	i	j	k		m	n	h	0
	_						Gross ca	arrying amount		Accum	ulated impairmer	nt, accumulated	negative change	es in fair value due	e to credit risk	
	_			Performing		١	lon-performing				Performing		١	lon-performing		
				Of which:							Of which:					
				Instruments with							Instruments with					
				significant							significant					
				increase in							increase in					
				credit risk since initial			Of which:				credit risk since initial			Of which:		Gross
			Of which:	recognition		Of which:	Unlikely to			Of which:	recognition		Of which:	Unlikely to		carrying amount
			exposures	but not		exposures	pay that are			exposures	but not		exposures	pay that are		Inflows to
			with	credit-		with	not past-due			with	credit-		with	not past-due		non-
	in € m.	Total	forbearance measures	impaired (Stage 2)	Total	forbearance measures	or past-due <= 90 days	Total	Total	forbearance measures	impaired (Stage 2)	Total	forbearance measures	or past-due <= 90 days	Total	performing exposures
_	Loans and			(===g==)							(case =)					
	advances															
1	subject to															
	moratorium	23	6	8	2	0	1	25	(0)	(0)	(0)	(0)	(0)	(0)	(1)	0
2	of which:															
_	Households	12	6	8	2	0	1	14	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0
	of which:															
	Collateraliz															
3	ed by															
0	residential															
	immovable															
_	property	12	6	8	2	0	1	14	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0
	of which:															
4	11011 11110110101	40	0	0	0	0		4.4	(0)		0		0	0	(0)	0
_	corporations	10	0	0	0	0	0	11	(0)	0	0	0	0	0	(0)	0
	of which: Small and															
5																
5	sized															
	Enterprises	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-	of which:															
	Collateraliz															
	ed by															
6	commercial															
	immovable															
	property	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

¹ Template 1 includes only loans and advances subject to active legislative and non-legislative moratoria (Dec 31,2020 comparatives exclude extensions of Italian moratoria).

The below COVID-19 template 2, provides details on loans and advances that met the requirements for EBA-compliant moratoria (legislative and non-legislative). As can be seen in the table, almost all of the moratoria have expired and as of June 30, 2022, only € 5 million of moratoria are still active. More than 95% of these clients who took advantage of moratoria have now resumed payments.

COVID-19 template 2: Breakdown of loans and advances subject to legislative and non-legislative moratoria by residual maturity of moratoria

									Jun 30, 2022
	a	b	С	d	е	f	g	h	i
	Number of obligors							Gross car	rying amount
	(in 1,000s)							Residual maturity	of moratoria
in € m. (unless stated otherweise)		Total	Of which: legislative moratoria	Of which: expired	<= 3 months	> 3 and <= 6 months	> 6 and <= 9 months	> 9 and <= 12 months	> 1 yr
1 Loans and advances for which moratorium was offered	76	7,027	_	_	_	_	_	_	_
2 Loans and advances subject to moratorium (granted)	74	6,681	5,731	6,676	2	1	1	1	1
3 of which: Households		4,650	3,943	4,644	2	1	1	1	1
4 of which: Collateralized by residential immovable property	_	3,916	3,411	3,911	1	1	1	1	1
5 of which: Non-financial corporations	_	2,005	1,769	2,005	_	0	_	_	_
6 of which: Small and Medium-sized Enterprises		923	763	923	_	0	_		_
7 of which: Collateralized by commercial immovable property		236	131	236	_	0			

									Dec 31, 2021
	a	b	С	d	е	f	g	h	i
	Number of obligors							Gross car	rying amount
	(in 1,000s)							Residual maturity	of moratoria
in € m. (unless stated otherweise)		Total	Of which: legislative moratoria	Of which: expired	<= 3 months	> 3 and <= 6 months	> 6 and <= 9 months	> 9 and <= 12 months	> 1 yr
Loans and advances for which moratorium was offered	86	7,714		_	_	_	-	_	_
2 Loans and advances subject to moratorium (granted)	84	7,368	6,304	7,343	9	14	1	1	1
3 of which: Households		5,055	4,268	5,041	8	3	1	1	1
4 of which: Collateralized by residential immovable property		4,148	3,618	4,134	8	3	1	1	1
5 of which: Non-financial corporations		2,283	2,016	2,272	0	10	_		_
6 of which: Small and Medium-sized Enterprises		1,069	896	1,069		_	_		
7 of which: Collateralized by commercial immovable property		252	140	252					

COVID-19 template 3 provides details on outstanding loans and advances as referred to in paragraph 15 of EBA GL 2020 07 that are subject to public guarantee schemes that Member States introduced in response to the COVID-19 pandemic. In the case of refinancing of previous debt with a new loan or of repackaging of several debts into a new loan, the new loan recognized in the financial statements is reported in this template provided that it is covered by a public guarantee scheme related to the COVID-19 pandemic. The template provides a breakdown of the gross carrying amount, the forbearance measures and the amount of public guarantees related to loans and advances and the inflows to non-performing exposure.

The Group has originated approximately \in 4.3 billion of loans under the public guarantee scheme until June 2022 and in most cases the terms of the new originated loans and advances are between two and five years. Approximately \in 1.9 billion of loans were granted in Germany via programs sponsored by Kreditanstalt für Wiederaufbau (KfW), of which, \in 0.3 billion were derecognized as the terms of the loan and guarantee met the criteria for derecognition under IFRS 9, and \in 1.9 billion were originated in Spain and \in 0.5 billion in Luxembourg. As of June 30, 2022, 97% of the loans that were granted public guarantees continue to make regular repayments.

COVID-19 template 3: Information on newly originated loans and advances provided under newly applicable public guarantee schemes introduced in response to COVID-19 pandemic (excluding derecognized loans)

					Jun 30, 2022
		а	b	С	d
		Gı	oss carrying amount	Maximum amount of the guarantee that can be considered	Gross carrying amount
	in € m.	Total	of which: forborne	Public guarantees received	Inflows to non- performing exposures
1	Newly originated loans and advances subject to public guarantee				
'	schemes	4,011	169	3,426	17
2	of which: Households	37	_	_	0
3	of which: Collateralized by residential immovable property	0	_	_	0
4	of which: Non-financial corporations	3,964	169	3,385	17
5	of which: Small and Medium-sized Enterprises	2,332			11
6	of which: Collateralized by commercial immovable property	0			0

	_				Dec 31, 2021
		а	b	С	d
		Gı	ross carrying amount	Maximum amount of the guarantee that can be considered	Gross carrying amount
	in € m.	Total	of which: forborne	Public guarantees received	Inflows to non- performing exposures
4	Newly originated loans and advances subject to public guarantee				
1	schemes	3,952	132	3,416	28
2	of which: Households	38	_	_	0
3	of which: Collateralized by residential immovable property	0	_	_	0
4	of which: Non-financial corporations	3,901	132	3,371	27
5	of which: Small and Medium-sized Enterprises	2,220	_	_	0
6	of which: Collateralized by commercial immovable property	0	_	_	0

General quantitative information on credit risk mitigation

Overview of credit risk mitigation techniques

Article 453 (f) CRR

The table EU CR3 below shows a breakdown of unsecured and secured credit risk exposures and credit risk exposures secured by various credit risk mitigants for all loans and debt securities including the carrying amounts of the total population which are in default. Exposures unsecured (column a) represent the carrying amount of credit risk exposures (net of credit risk adjustments) that do not benefit from a credit risk mitigation technique, regardless of whether this technique is recognized in the CRR. Exposures secured (column b) represent the carrying amount of exposures that have at least one credit risk mitigation (CRM) mechanism (collateral, financial guarantees, credit derivatives) associated with them. Exposure secured by various credit risk mitigants (column c-e) are the carrying amount of exposures (net of credit risk adjustments) partly or totally secured by collateral, financial guarantees and credit derivatives, whereby only the secured portion of the overall exposure is presented. The allocation of the carrying amount of multi-secured exposures to their different CRM mechanisms is made by

order of priority, starting with the CRM mechanism expected to be called first in the event of a loss, and within the limits of the carrying amount primarily observed of the secured exposures. Moreover, no overcollateralization is considered.

EU CR3 - CRM techniques - Overview

						Jun 30, 2022
		a	b	С	d	е
	in € m.	Exposures unsecured: Carrying amount	Exposures secured: Carrying amount	Exposures secured by collateral	Exposures secured by financial guarantees	Exposures secured by credit derivatives
1	Total Loans and advances	485,210	386,358	348,849	37,509	0
2	Total Debt securities	56,581	460	460	0	0
3	Total exposures	541,791	386,818	349,309	37,509	0
4	of which: non-performing	3,762	5,181	4,515	665	0
5	of which: defaulted	3,740	5,070	4,450	619	0

						Dec 31, 2021
		а	b	С	d	е
	in € m.	Exposures unsecured: Carrying amount	Exposures secured: Carrying amount	Exposures secured by collateral	Exposures secured by financial guarantees	Exposures secured by credit derivatives
1	Total Loans and advances	483,236	369,040	334,321	34,719	0
2	Total Debt securities	44,480	262	262	0	0
3	Total exposures	527,716	369,302	334,583	34,719	0
4	of which: non-performing	7,900	5,206	4,555	651	0
5	of which: defaulted	7,562	5,206	4,555	651	0

For June 30, 2022 exposures are aligned with changes in the latest guidelines wherein column 'a' (Exposures unsecured: Carrying Amount) is reported net of impairment hence not comparable with December 31, 2021. Secured and unsecured total exposures increased from \in 897 billion in December 2021 to \in 929 billion in June 2022, driven by increases in secured loans and advances by \in 17 billion, unsecured debt securities by \in 12 billion and unsecured loans and advances by \in 2 billion.

Credit risk and credit risk mitigation in the standardized approach

Quantitative information on the use of the standardized approach

Standardized approach exposure by risk weight before and after credit mitigation

Article 444 (e) CRR and Article 453 (g-i) CRR

The table below shows the credit risk exposure before and post credit conversion factors and credit risk mitigation obtained in the form of eligible financial collateral, guarantees and credit derivatives based on the exposure at default values (EAD) in the standardized approach as well as related RWA and average risk weights broken down by regulatory exposure classes and a split into on- and off-balance sheet exposures.

EU CR4 - Standardized approach - credit risk exposure and credit risk mitigation (CRM) effects

							Jun 30, 2022
		a	b	С	d	е	f
	in € m. (unless stated otherwise)		oosures before CCF and CRM	Exposures post-CCF and CRM		RWA and	RWA density
	Exposure classes	On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount	RWA	RWA density
1	Central governments or central banks	110,812	47	110,849	1	2	0%
2	Regional government or local authorities	2,936	5,452	2,934	4,055	6	0.08%
3	Public sector entities	603	42	644	10	30	4.54%
4	Multilateral development banks	714	0	714	0	0	0%
5	International organizations	919	0	919	0	0	0%
6	Institutions	2,968	284	2,991	57	226	7.42%
7	Corporates	13,673	3,472	10,415	807	10,946	97.54%
8	Retail	2,057	1,583	1,652	66	1,216	70.76%
9	Secured by mortgages on immovable property	4,287	0	4,104	0	1,513	36.87%
10	Exposures in default	872	25	836	8	1,069	126.68%
11	Exposures associated with particularly high risk	62	17	62	1	94	150.00%
12	Covered bonds	0	0	0	0	0	0%
10	Institutions and corporates with a short-term credit	0	0	0	0	0	00/
13	assessment	0				0	0%
14	Collective investments undertakings (CIU)	356	10,863	356	2,949	4,135	125.11%
15	Equity	0	0	0	0	0	0%
16	Other items	30	0	30	0	24	81.10%
17	Total	140,290	21,785	136,507	7,955	19,261	13.33%

							Dec 31, 2021
		а	b	С	d	е	f
	in € m. (unless stated otherwise)		oosures before CCF and CRM	Exposures	post-CCF and CRM	RWA and	RWA density
	Exposure classes	On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount	RWA	RWA density
1	Central governments or central banks	115,115	13	115,407	6	2	0%
2	Regional government or local authorities	3,569	5,391	3,576	1,457	19	0.37%1
3	Public sector entities	682	41	726	10	39	5.29%
4	Multilateral development banks	463	0	463	0	0	0%
5	International organizations	808	0	808	0	0	0%
6	Institutions	2,749	284	2,749	58	175	6.22%
7	Corporates	13,489	2,979	9,997	638	10,290	96.75%
8	Retail	1,964	1,648	1,578	67	1,159	70.44%
9	Secured by mortgages on immovable property	4,329	0	4,138	0	1,559	37.68%
10	Exposures in default	1,020	7	984	0	1,271	129.09%
11	Items associated with particularly high risk	69	7	69	1	105	150.00%
12	Covered bonds	0	0	0	0	0	0%
	Claims on institutions and corporates with a short-term credit						
13	assessment	0	0	0	0	0	0%
14	Collective investments undertakings (CIU)	306	16,506	306	4,028	4,399	101.49%
15	Equity exposures	0	0	0	0	0	0%
16	Other items	40	0	40	0	39	96.73%
17	Total	144.603	26.877	140.842	6.266	19.056	12.95%

¹ Comparatives aligned to current presentation.

In the following tables the exposure at default values (EAD) per regulatory exposure class are assigned to their standardized risk weights. Deducted or unrated items are split out separately. The exposures are shown after the shift to the exposure class of the protection seller, if applicable.

EU CR5 - Standardized approach

						Jı	un 30, 2022
	in € m.					I	Risk Weight
	Exposure classes	0%	2%	4%	10%	20%	35%
1	Central governments or central banks	110,844	0	0	0	3	0
2	Regional governments or local authorities	6,962	0	0	0	27	0
3	Public sector entities	526	0	0	0	114	0
4	Multilateral development banks	715	0	0	0	0	0
5	International organizations	919	0	0	0	0	0
6	Institutions	2,560	50	0	0	225	0
7	Corporates	0	0	0	0	273	0
8	Retail exposures	0	0	0	0	0	182
9	Exposures secured by mortgages on immovable property	0	0	0	0	0	3,498
10	Exposures in default	0	0	0	0	0	0
11	Exposures associated with particularly high risk	0	0	0	0	0	0
12	Covered bonds	0	0	0	0	0	0
	Exposures to institutions and corporates with a short-term						
13	credit assessment	0	0	0	0	0	0
14	Units or shares in collective investment undertakings (CIU)	1,657	0	0	0	380	0
15	Equity exposures	0	0	0	0	0	0
16	Other items	0	0	0	0	7	0
17	Total	124,182	50	0	0	1,030	3,680

	_					Ju	n 30, 2022
	in € m.					R	isk Weight
	Exposure classes	50%	70%	75%	100%	150%	250%
1	Central governments or central banks	4	0	0	0	0	0
2	Regional governments or local authorities	0	0	0	0	0	0
3	Public sector entities	14	0	0	0	0	0
4	Multilateral development banks	0	0	0	0	0	0
5	International organizations	0	0	0	0	0	0
6	Institutions	66	0	0	147	0	0
7	Corporates	74	0	0	10,777	96	0
8	Retail	0	0	1,536	0	0	0
9	Secured by mortgages on immovable property	606	0	0	0	0	0
10	Exposures in default	0	0	0	393	450	0
11	Items associated with particularly high risk	0	0	0	0	63	0
12	Covered bonds	0	0	0	0	0	0
	Claims on institutions and corporates with a short-term credit						
13	assessment	0	0	0	0	0	0
14	Collective investments undertakings (CIU)	19	0	0	980	3	0
15	Equity exposures	0	0	0	0	0	0
16	Other items	0	0	0	23	0	0
17	Total	784	0	1,536	12,321	612	0

						Jun 30, 2022
	in € m.		I	Risk Weight		
	Exposure classes	370%	1250%	Others	Total	Of which: unrated
1	Central governments or central banks	0	0	0	110,850	110,850
2	Regional governments or local authorities	0	0	0	6,989	6,989
3	Public sector entities	0	0	0	654	642
4	Multilateral development banks	0	0	0	715	715
5	International organizations	0	0	0	919	919
6	Institutions	0	0	0	3,048	3,027
7	Corporates	0	2	0	11,222	11,155
8	Retail	0	0	0	1,718	1,718
9	Secured by mortgages on immovable property	0	0	0	4,104	4,086
10	Exposures in default	0	0	0	844	844
11	Items associated with particularly high risk	0	0	0	63	63
12	Covered bonds	0	0	0	0	0
13	Claims on institutions and corporates with a short-term credit assessment	0	0	0	0	0
14	Collective investments undertakings (CIU)	0	231	34	3,305	3,302
15	Equity exposures	0	0	0	0	0
16	Other items	0	0	0	30	30
17	Total	0	233	34	144,461	144,338

						D	ec 31, 2021
	in € m.					I	Risk Weight
	Exposure classes	0%	2%	4%	10%	20%	35%
1	Central governments or central banks	115,405	0	0	0	4	0
2	Regional governments or local authorities	4,988	0	0	0	34	0
3	Public sector entities	555	0	0	0	176	0
4	Multilateral development banks	463	0	0	0	0	0
5	International organizations	808	0	0	0	0	0
6	Institutions	2,329	50	0	0	327	0
7	Corporates	79	0	0	0	196	0
8	Retail	0	0	0	0	0	187
9	Secured by mortgages on immovable property	0	0	0	0	0	3,323
10	Exposures in default	0	0	0	0	0	0
11	Items associated with particularly high risk	0	0	0	0	0	0
12	Covered bonds	0	0	0	0	0	0
	Claims on institutions and corporates with a short-term credit						
13	assessment	0	0	0	0	0	0
14	Collective investments undertakings (CIU)	67	0	0	0	13	0
15	Equity exposures	0	0	0	0	0	0
16	Other items	0	0	0	0	2	0
17	Total ¹	124,694	50	0	0	751	3,510

						De	ec 31, 2021
	in € m.					F	Risk Weight
	Exposure classes	50%	70%	75%	100%	150%	250%
1	Central governments or central banks	3	0	0	0	0	0
2	Regional governments or local authorities	0	0	0	12	0	0
3	Public sector entities	3	0	0	2	0	0
4	Multilateral development banks	0	0	0	0	0	0
5	International organizations	0	0	0	0	0	0
6	Institutions	52	0	0	44	2	0
7	Corporates	79	0	0	10,230	51	0
8	Retail	0	0	1,458	0	0	0
9	Secured by mortgages on immovable property	815	0	0	0	0	0
10	Exposures in default	0	0	0	372	612	0
11	Items associated with particularly high risk	0	0	0	0	70	0
12	Covered bonds	0	0	0	0	0	0
	Claims on institutions and corporates with a short-term credit						
13	assessment	0	0	0	0	0	0
14	Collective investments undertakings (CIU)	17	0	0	737	2	0
15	Equity exposures	0	0	0	0	0	0
16	Other items	0	0	0	39	0	0
17	Total ¹	969	0	1,458	11,437	738	0

	_						Dec 31, 2021
	in € m.				Risk Weight		
	Exposure classes	370%	1250%	Others	Total	Of which: unrated	
1	Central governments or central banks	0	0	0	115,413	115,413	
2	Regional governments or local authorities	0	0	0	5,033	5,031	
3	Public sector entities	0	0	0	736	696	
4	Multilateral development banks	0	0	0	463	463	
5	International organizations	0	0	0	808	808	
6	Institutions	0	3	0	2,807	2,783	
7	Corporates	0	1	0	10,635	10,449	
8	Retail	0	0	0	1,645	1,645	
9	Secured by mortgages on immovable property	0	0	0	4,138	4,122	
10	Exposures in default	0	0	0	984	984	
11	Items associated with particularly high risk	0	0	0	70	70	
12	Covered bonds	0	0	0	0	0	
	Claims on institutions and corporates with a short-term credit						
13	assessment	0	0	0	0	0	
14	Collective investments undertakings (CIU)	0	255	3,242	4,334	4,322	
15	Equity exposures	0	0	0	0	0	
16	Other items	0	0	0	41	41	
17	Total ¹	0	259	3,242	147,108	146,828	

¹ Comparatives aligned to current presentation.

Credit risk exposure and credit risk mitigation in the internal-rating-based approach

Quantitative information on the use of the IRB approach

Foundation IRB exposure

Article 452 (g) (i-v) CRR

The following series of tables details Deutsche Bank's foundation internal rating based (IRB) exposures distributed on its internal rating scale for all relevant regulatory exposure classes. The tables exclude the counterparty credit risk position from derivatives and securities financing transactions which are presented separately in the section "Counterparty credit risk" in this report from page 84 to 98.

The tables show the on-balance sheet as well as the off-balance sheet exposure with their corresponding exposure-weighted credit conversion factors. All undrawn commitment exposure values shown below are assigned to the exposure class of the borrower and not to the exposure class of the counterparty providing Deutsche Bank credit protection.

In addition, the tables provide the exposure post CRM and credit conversion factor (CCF), where exposures covered by guarantees or credit derivatives are assigned to the protection seller.

The exposure post CCF & CRM is presented in conjunction with exposures-weighted average PD, LGD, maturity as well as the RWA and the average risk weight (RW). The tables provide the defaulted exposure separately.

Further details in the tables are number of obligors, regulatory expected loss and provisions comprising specific risk adjustments.

EU CR6 – FIRB approach – Credit risk exposures by exposure class and PD range

in € m.	а	b	С	d	е	f	g	h	i	j	k	1
(unless stated otherwise) Exposure class/ PD scale	On-balance sheet exposures	Off-balance- sheet exposures pre- CCF	Exposure weighted average CCF (in %)	Exposure post CCF and post CRM	Exposure weighted average PD (%)	Number of obligors (in 1,000s)	Exposure weighted average LGD (%)	Exposure weighted average maturity (in years)	Risk weighted exposure amount after supporting factors	Density of risk weighted exposure amount (in %)	Expected Loss amount	Value adjustments and Provisions
Central governments												
and central banks												
0.00 to <0.15	0	0	0	50	0.00	0.0	45.00	2.5	0	0	0	
0.00 to <0.10	0	0	0	50	0.00	0.0	45.00	2.5	0	0.00	0	
0.10 to <0.15	0	0	0	0	0	0.0	0	0	0	0	0	
0.15 to <0.25	0	1_	0	0	0.23	0.0	42.69	2.5	0	47.61	0	
0.25 to <0.50	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
0.50 to <0.75	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
0.75 to <2.50	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
0.75 to <1.75	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
1.75 to <2.5	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
2.50 to <10.00	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
2.50 to <5	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
5 to <10	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
10.00 to <100.00	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
10 to <20	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
20 to <30	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
30.00 to <100.00	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
100.00 (Default)	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
Sub-total	0	1	0	50	0.00	0.0	45.00	2.5	0	0.10	0	
Institutions												
0.00 to <0.15	3	13	0	3	0.05	0.0	19.71	2.5	0	8.57	0	_
0.00 to <0.10	3	12	0	3	0.04	0.0	20.20	2.5	0	8.21	0	_
0.10 to <0.15	0	1	0	0	0.15	0.0	12.33	2.5	0	13.96	0	_
0.15 to <0.25	0	2	0	0	0.25	0.0	12.33	2.5	0	14.46	0	_
0.25 to <0.50	0	0	0	0	0.38	0.0	42.69	2.5	0	61.54	0	_
0.50 to <0.75	0	0	0	0	0	0	0	0	0	0	0	_
0.75 to <2.50	0	0	75.00	0	2.0600	0.00	12.3300	2.50	0	33.6200	0	_
0.75 to <1.75	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	_
1.75 to <2.5	0	0	75.00	0	2.0600	0.00	12.3300	2.50	0	33.6200	0	_
2.50 to <10.00	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	_
2.50 to <5	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	_
5 to <10	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	_
10.00 to <100.00	1	0	0	1	20.00	0.0	44.99	2.5	2	286.56	0	_
10 to <20	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	_
20 to <30	1	0	0	1	20.00	0.0	44.99	2.5	2	286.56	0	_
30.00 to <100.00	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
100.00 (Default)	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	_
Sub-total	4	15	0.03	4	4.37	0.1	25.49	2.5	3	69.85	0	_

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in € m.	a	b	C	d	<u>e</u>	<u></u>	<u>g</u>	h Exposure	Diele weighted	Density of risk	k	
(unless stated otherwise)		Off-balance-	Exposure		Exposure		Exposure	weighted	Risk weighted exposure	weighted		Value
	On-balance	sheet	weighted	Exposure post	weighted	Number of	weighted	average	amount after	exposure		adjustments
Exposure class/ PD scale	sheet	exposures pre- CCF	average CCF	CCF and post CRM	average PD	obligors	average LGD	maturity	supporting factors	amount	Expected	and
Corporates	exposures		(in %)	CRIVI	(%)	(in 1,000s)	(%)	(in years)	lactors	(in %)	Loss amount	Provisions
0.00 to <0.15	2,237	2,290	2.08	2.640	0.10	1.8	18.48	2.5	348	13.19		2
0.00 to <0.10	1,571	1,600	1.24	1,999	0.08	1.1	17.16	2.5	213	10.64	0	0
0.10 to <0.15	666	689	4.04	641	0.08	0.7	22.61	2.5	135	21.12	0	2
0.15 to <0.25	1,005	1,105	1.51	943	0.16	2.7	28.53	2.5	324	34.40	1	0
0.15 to <0.25 0.25 to <0.50	1,009	1,113	4.68	943	0.43	3.5	32.97	2.5	475	50.40	1	0
0.50 to <0.75	564	623	2.32	497	0.74	2.2	32.10	2.5	307	61.74	1	0
0.75 to <2.50	505	449	9.74	470	1.60	1.0	29.84	2.5	351	74.65	2	1
0.75 to <2.50 0.75 to <1.75	301	322	13.33	283	1.29	0.8	30.96	2.5	207	72.97		1
	204											
1.75 to <2.5		127	0.64	186	2.07	0.2	28.16	2.5	144	77.20	1	0
2.50 to <10.00	178	166	0.01	167	5.44	0.2	20.73	2.5	127	75.73	2	0
2.50 to <5	120	121	0	113	4.09	0.1	18.46	2.5	69	61.16	1	0
5 to <10	58	44	0.03	54	8.24	0.1	25.45	2.5	58	106.02	1	0
10.00 to <100.00	154	96	9.26	128	21.45	1.0	35.77	2.5	234	183.07	9	5
10 to <20	26	7	52.46	30	15.70	0.0	42.00	2.5	55	185.44	2	1
20 to <30	112	76	7.04	82	21.09	1.0	38.06	2.5	168	203.97	7	4
30.00 to <100.00	16	13	0	16	34.05	0.0	12.33	2.5	11	70.44	1	0
100.00 (Default)	96	2	0.15	95	100.00	0.9	42.51	2.5	0	0.00	41	67
100.00 (Default) Sub-total	96 5,748	5,844	0.15 3.14	95 5,882	100.00 2.58	0.9 13.4	42.51 25.30	2.5 2.5	2,166	0.00 36.82	<u>41</u> 58	75
Sub-total of which:												
Sub-total of which: SMEs	5,748	5,844	3.14	5,882	2.58	13.4	25.30	2.5	2,166	36.82	58	
of which: SMEs 0.00 to <0.15	5,748	5,844	3.14	5,882	0.07	0.1	25.30	2.5	2,166	36.82	58	
Of which: SMEs 0.00 to <0.15 0.00 to <0.10	5,748 8 7	5,844 20 12	3.14 13.86 22.49	5,882 25 24	0.07 0.07	0.1 0.1	25.30 33.71 33.52	2.5 2.5 2.5	2,166	36.82 14.08 13.73		
Of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15	5,748 8 7	20 12 8	3.14 13.86 22.49	5,882 25 24 1	0.07 0.07 0.16	0.1 0.1 0.1	25.30 33.71 33.52 39.24	2.5 2.5 2.5 2.5	2,166 3 3 0	14.08 13.73 24.40	0 0 0	
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25	5,748 8 7 1 12	20 12 8 20	3.14 13.86 22.49 0	25 24 1	0.07 0.07 0.07 0.16 0.24	0.1 0.1 0.1 0.1	33.71 33.52 39.24 30.43	2.5 2.5 2.5 2.5 2.5	2,166 3 3 0 3	14.08 13.73 24.40 23.64	0 0 0 0	
Of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15	5,748 8 7 1 12 15	20 12 8 20 26	3.14 13.86 22.49	5,882 25 24 1 11 12	0.07 0.07 0.16	0.1 0.1 0.1	25.30 33.71 33.52 39.24	2.5 2.5 2.5 2.5 2.5 2.5 2.5	2,166 3 3 0	14.08 13.73 24.40	0 0 0	
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25	5,748 8 7 1 12	20 12 8 20	3.14 13.86 22.49 0	25 24 1 11 12 13	0.07 0.07 0.07 0.16 0.24	0.1 0.1 0.1 0.1	33.71 33.52 39.24 30.43	2.5 2.5 2.5 2.5 2.5	2,166 3 3 0 3	14.08 13.73 24.40 23.64	0 0 0 0	
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50	5,748 8 7 1 12 15	20 12 8 20 26	3.14 13.86 22.49 0 0	5,882 25 24 1 11 12	0.07 0.07 0.07 0.16 0.24 0.39	0.1 0.1 0.1 0.1 0.1	33.71 33.52 39.24 30.43 40.87	2.5 2.5 2.5 2.5 2.5 2.5 2.5	2,166 3 3 0 3 5	14.08 13.73 24.40 23.64 40.49	0 0 0 0	
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75	5,748 8 7 1 12 15 16	20 12 8 20 26 24	3.14 13.86 22.49 0 0 0	25 24 1 11 12 13	0.07 0.07 0.07 0.16 0.24 0.39 0.70	0.1 0.1 0.1 0.1 0.1 0.2	33.71 33.52 39.24 30.43 40.87 34.18	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	3 3 0 3 5 6	14.08 13.73 24.40 23.64 40.49 42.98	0 0 0 0 0	
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50	5,748 8 7 1 12 15 16 19	20 12 8 20 26 24 34	3.14 13.86 22.49 0 0 0 0 17.65	5,882 25 24 1 11 12 13 22	0.07 0.07 0.16 0.24 0.39 0.70	0.1 0.1 0.1 0.1 0.1 0.2 0.1	33.71 33.52 39.24 30.43 40.87 34.18 25.45	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	3 3 0 3 5 6	14.08 13.73 24.40 23.64 40.49 42.98 43.70	0 0 0 0 0 0	
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75	5,748 8 7 1 12 15 16 19 9	20 12 8 20 26 24 34	3.14 13.86 22.49 0 0 0 0 17.65 30.66	25 24 1 11 12 13 22 12	0.07 0.07 0.16 0.24 0.39 0.70 1.60	0.1 0.1 0.1 0.1 0.2 0.1 0.1	33.71 33.52 39.24 30.43 40.87 34.18 25.45 35.93	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	2,166 3 3 0 3 5 6 10 7	14.08 13.73 24.40 23.64 40.49 42.98 43.70 58.47	0 0 0 0 0 0 0	
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5	5,748 8 7 1 12 15 16 19 9 10	20 12 8 20 26 24 34 19	3.14 13.86 22.49 0 0 0 0 17.65 30.66 0	25 24 1 11 12 13 22 12	0.07 0.07 0.16 0.24 0.39 0.70 1.60 1.29	0.1 0.1 0.1 0.1 0.2 0.1 0.1 0.1	33.71 33.52 39.24 30.43 40.87 34.18 25.45 35.93 13.21	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	2,166 3 3 0 3 5 6 10 7	14.08 13.73 24.40 23.64 40.49 42.98 43.70 58.47 26.46	0 0 0 0 0 0 0 0	
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00	5,748 8 7 1 12 15 16 19 9 10 21	20 12 8 20 26 24 34 19 14 26	3.14 13.86 22.49 0 0 0 17.65 30.66 0	5,882 25 24 1 11 12 13 22 12 10 19	0.07 0.07 0.16 0.24 0.39 0.70 1.60 1.29 1.97 5.36	0.1 0.1 0.1 0.1 0.2 0.1 0.1 0.1 0.0	33.71 33.52 39.24 30.43 40.87 34.18 25.45 35.93 13.21 12.69	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	2,166 3 3 0 3 5 6 10 7 3 7	14.08 13.73 24.40 23.64 40.49 42.98 43.70 58.47 26.46 36.26	0 0 0 0 0 0 0 0 0	
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5	5,748 8 7 1 12 15 16 19 9 10 21 13	20 12 8 20 26 24 34 19 14 26	3.14 13.86 22.49 0 0 17.65 30.66 0 0 0	5,882 25 24 1 11 12 13 22 12 10 19 13	0.07 0.07 0.16 0.24 0.39 0.70 1.60 1.29 1.97 5.36 4.12	0.1 0.1 0.1 0.1 0.2 0.1 0.1 0.1 0.0 0.0	25.30 33.71 33.52 39.24 30.43 40.87 34.18 25.45 35.93 13.21 12.69 12.84	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	2,166 3 3 0 3 5 6 10 7 3 7 5	14.08 13.73 24.40 23.64 40.49 42.98 43.70 58.47 26.46 36.26 37.26	0 0 0 0 0 0 0 0 0 0	
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <10.00 2.50 to <10	5,748 8 7 1 12 15 16 19 9 10 21 13 8	20 12 8 20 26 24 34 19 14 26 18	3.14 13.86 22.49 0 0 17.65 30.66 0 0 0 0	5,882 25 24 1 11 12 13 22 12 10 19 13 6	0.07 0.07 0.16 0.24 0.39 0.70 1.60 1.29 1.97 5.36 4.12 8.19	0.1 0.1 0.1 0.1 0.2 0.1 0.1 0.0 0.0 0.0	25.30 33.71 33.52 39.24 30.43 40.87 34.18 25.45 35.93 13.21 12.69 12.84 12.33	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	2,166 3 3 0 3 5 6 10 7 3 7 5 2	14.08 13.73 24.40 23.64 40.49 42.98 43.70 58.47 26.46 36.26 37.26 33.96	0 0 0 0 0 0 0 0 0 0 0	
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.15 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10.00	5,748 8 7 1 12 15 16 19 9 10 21 13 8 37	20 12 8 20 26 24 34 19 14 26 18 7	3.14 13.86 22.49 0 0 0 17.65 30.66 0 0 0 25.94	5,882 25 24 1 11 12 13 22 12 10 19 13 6 29	0.07 0.07 0.16 0.24 0.39 0.70 1.60 1.29 1.97 5.36 4.12 8.19	0.1 0.1 0.1 0.1 0.2 0.1 0.1 0.0 0.0 0.0 0.0	25.30 33.71 33.52 39.24 30.43 40.87 34.18 25.45 35.93 13.21 12.69 12.84 12.33 40.53	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	2,166 3 3 0 3 5 6 10 7 3 7 5 2 44	14.08 13.73 24.40 23.64 40.49 42.98 43.70 58.47 26.46 36.26 37.26 33.96 153.20	0 0 0 0 0 0 0 0 0 0 0 0	75
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.15 0.10 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <1.00 2.50 to <5 5 to <10 10.00 to <10.00 10 to <20	5,748 8 7 1 12 15 16 19 9 10 21 13 8 37	5,844 20 12 8 20 26 24 34 19 14 26 18 7 11	3.14 13.86 22.49 0 0 0 17.65 30.66 0 0 0 25.94 75.00	5,882 25 24 1 11 12 13 22 12 10 19 13 6 29 16	0.07 0.07 0.16 0.24 0.39 0.70 1.60 1.29 1.97 5.36 4.12 8.19 18.88 16.86	0.1 0.1 0.1 0.1 0.2 0.1 0.1 0.0 0.0 0.0 0.0	25.30 33.71 33.52 39.24 30.43 40.87 34.18 25.45 35.93 13.21 12.69 12.84 12.33 40.53 45.00	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	2,166 3 3 0 3 5 6 10 7 3 7 5 2 44 29	14.08 13.73 24.40 23.64 40.49 42.98 43.70 58.47 26.46 36.26 37.26 33.96 153.20 176.99	0 0 0 0 0 0 0 0 0 0 0 0 0	75
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <1.00 2.50 to <1.00 2.50 to <5 5 to <10 10.00 to <100.00 10 to <20 20 to <30	5,748 8 7 1 12 15 16 19 9 10 21 13 8 37 14	20 12 8 20 26 24 34 19 14 26 18 7	3.14 13.86 22.49 0 0 0 17.65 30.66 0 0 0 25.94 75.00 6.93	5,882 25 24 1 11 12 13 22 12 10 19 13 6 29 16 11	0.07 0.07 0.16 0.24 0.39 0.70 1.60 1.29 1.97 5.36 4.12 8.19 18.88 16.86 20.58	0.1 0.1 0.1 0.1 0.2 0.1 0.1 0.0 0.0 0.0 0.0 0.0	25.30 33.71 33.52 39.24 30.43 40.87 34.18 25.45 35.93 13.21 12.69 12.84 12.33 40.53 45.00 36.30	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	2,166 3 3 0 3 5 6 10 7 3 7 5 2 44 29	14.08 13.73 24.40 23.64 40.49 42.98 43.70 58.47 26.46 36.26 37.26 33.96 153.20 176.99 127.05	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 1 1	75

												Jun 30, 2022
in € m.	а	b	С	d	е	f	g	h	i	j	k	
(unless stated otherwise) Exposure class/	On-balance sheet	Off-balance- sheet exposures pre-	Exposure weighted average CCF	Exposure post CCF and post	Exposure weighted average PD	Number of obligors	Exposure weighted average LGD	Exposure weighted average maturity	Risk weighted exposure amount after supporting	Density of risk weighted exposure amount	Expected	Value adjustments and
PD scale	exposures	CCF	(in %)	CRM	(%)	(in 1,000s)	(%)	(in years)	factors	(in %)	Loss amount	Provisions
Other												
0.00 to <0.15	2,228	2,270	1.98	2,616	0.10	1.7	18.34	2.5	345	13.18	1	2
0.00 to <0.10	1,564	1,588	1.07	1,975	0.08	1.1	16.96	2.5	209	10.61	0	0
0.10 to <0.15	664	682	4.09	640	0.16	0.7	22.59	2.5	135	21.11	0	2
0.15 to <0.25	993	1,085	1.54	933	0.26	2.6	28.51	2.5	322	34.53	1	0
0.25 to <0.50	994	1,087	4.79	931	0.43	3.3	32.87	2.5	470	50.53	1	0
0.50 to <0.75	549	599	2.41	484	0.74	2.1	32.04	2.5	301	62.24	1	0
0.75 to <2.50	485	416	9.10	448	1.60	0.9	30.06	2.5	341	76.17	2	1
0.75 to <1.75	292	303	12.22	271	1.29	0.8	30.74	2.5	200	73.60	1	1
1.75 to <2.5	194	113	0.72	176	2.08	0.1	29.02	2.5	141	80.11	1	0
2.50 to <10.00	157	140	0.01	148	5.45	0.1	21.74	2.5	120	80.70	2	0
2.50 to <5	107	103	0	100	4.09	0.1	19.19	2.5	64	64.27	1	0
5 to <10	50	37	0.03	49	8.25	0.0	26.98	2.5	56	114.42	1	0
10.00 to <100.00	117	85	7.16	99	22.20	0.9	34.39	2.5	190	191.74	7	4
10 to <20	12	4	33.30	13	14.25	0.0	38.23	2.5	26	196.07	1	0
20 to <30	90	69	7.05	71	21.17	0.9	38.34	2.5	154	216.29	6	3
30.00 to <100.00	15	12	0	15	34.05	0.0	12.33	2.5	11	71.76	1	0
100.00 (Default)	95	2	0.16	94	100.00	0.9	42.49	2.5	0	0.00	40	66
Sub-total	5,619	5,684	3.03	5,752	2.50	12.6	25.16	2.5	2,089	36.32	55	73
All exposure classes												
Total	5,753	5,860	3.13	5,936	2.55	13.4	25.47	2.5	2,168	36.53	58	75

												Dec 31, 2021
in € m.	а	b	С	d	е	f	g	h	i	j_	k	1
(unless stated otherwise) Exposure class/ PD scale	On-balance sheet exposures	Off-balance- sheet exposures pre- CCF	Exposure weighted average CCF (in %)	Exposure post CCF and post CRM	Exposure weighted average PD (%)	Number of obligors (in 1,000s)	Exposure weighted average LGD (%)	Exposure weighted average maturity (in years)	Risk weighted exposure amount after supporting factors	Density of risk weighted exposure amount (in %)	Expected Loss amount	Value adjustments and Provisions
Central governments												
and central banks												
0.00 to <0.15	0	0	0	58	0.00	0.00	45.00	2.5	0	0.0100	0	
0.00 to <0.10	0	0	0	58	0.00	0.0	45.00	2.5	0	0.00	0	
0.10 to <0.15	0	0	0	0	0.1500	0.00	42.6900	2.50	0	37.6400	0	
0.15 to <0.25	0	0	0	0	0.2300	0.0	42.6900	2.50	0	47.6100	0	
0.25 to <0.50	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
0.50 to <0.75	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
0.75 to <2.50	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
0.75 to <1.75	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
1.75 to <2.5	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
2.50 to <10.00	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
2.50 to <5	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
5 to <10	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
10.00 to <100.00	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
10 to <20	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	_
20 to <30	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
30.00 to <100.00	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
100.00 (Default)	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	_
Sub-total	0	0	0	58	0.00	0.0	45.00	2.5	0	0.0900	0	
Institutions												
0.00 to <0.15		10	0	2	0.04	0.0	39.85	2.5	0	14.40	0	
0.00 to <0.10	2	10	0	2	0.04	0.0	40.50	2.5	0	14.39	0	
0.10 to <0.15	0	0	0	0	0.15	0.0	12.33	2.5	0	14.82	0	
0.15 to <0.25		2	0		0.25	0.0	13.05	2.5	0	15.63	0	
0.25 to <0.50	0	1	0	0	0.38	0.0	42.69	2.5	0	61.54	0	
0.50 to <0.75		0	0	0	0.6900	0.0	42.6900	2.50	0	80.4900	0	
0.75 to <2.50	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
0.75 to <1.75		0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
1.75 to <2.5		0	0		0.00	0.0	0.00	0.0	0	0.00	0	
2.50 to <10.00		0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
2.50 to <5	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
5 to <10		0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
10.00 to <100.00		0	0	1	20.00	0.0	45.00	2.50	2	286.62	0	
10.00 to <100.00	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
20 to <30		0	0	1	20.00	0.0	45.00	2.50	2	286.62	0	
30.00 to <100.00		0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
100.00 (Default)		0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	
Sub-total	3	13		3	5.00	0.0	41.10	2.5	3	82.40	0	
Jun-iolai	<u> </u>	13		3	5.00	0.1	41.10	2.5	<u> </u>	02.40		

												Dec 31, 2021
in € m.	a	b	C	d	e	f	g	h	i	j_	k	
(unless stated otherwise)		0"	_		_		_	Exposure	Risk weighted	Density of risk		
	On-balance	Off-balance- sheet	Exposure weighted	Exposure post	Exposure weighted	Number of	Exposure weighted	weighted average	exposure amount after	weighted exposure		Value adjustments
Exposure class/	sheet	exposures pre-	average CCF	CCF and post	average PD	obligors	average LGD	maturity	supporting	amount	Expected	and
PD scale	exposures	CCF	(in %)	CRM	(%)	(in 1,000s)	(%)	(in years)	factors	(in %)	Loss amount	Provisions
Corporates												
0.00 to <0.15	2,025	2,393	4.79	2,546	0.10	1.5	19.32	2.5	356	13.99	1	2
0.00 to <0.10	1,068	1,183	3.36	1,598	0.07	0.9	19.12	2.5	189	11.80	0	0
0.10 to <0.15	957	1,210	6.18	948	0.16	0.6	19.66	2.5	168	17.69	0	2
0.15 to <0.25	1,119	1,188	3.57	1,065	0.25	2.5	28.54	2.5	357	33.55	1	0
0.25 to <0.50	800	944	2.62	706	0.41	3.3	36.79	2.5	387	54.80	1	0
0.50 to <0.75	622	668	3.62	528	0.72	2.2	27.35	2.5	278	52.60	1	1
0.75 to <2.50	553	528	8.68	546	1.58	0.9	30.14	2.5	422	77.26	3	1
0.75 to <1.75	366	409	8.33	365	1.30	0.8	29.29	2.5	259	70.94	1	0
1.75 to <2.5	187	119	9.90	181	2.15	0.1	31.85	2.5	163	89.96	1	0
2.50 to <10.00	221	166	3.27	191	5.83	0.2	20.63	2.5	141	73.93	3	2
2.50 to <5	142	128	0.43	113	4.08	0.1	18.12	2.5	71	62.63	1	0
5 to <10	78	38	12.77	78	8.38	0.1	24.27	2.5	70	90.38	2	1
10.00 to <100.00	109	139	6.18	74	21.34	1.2	35.78	2.5	128	171.31	5	2
10 to <20	17	12	2.34	15	14.06	0.0	34.97	2.5	28	179.12	1	0
20 to <30	78	83	9.95	45	20.08	1.2	43.03	2.5	90	199.09	4	1
30.00 to <100.00	14	43	0	14	33.95	0.0	12.33	2.5	9	69.01	1	0
											40	57
100 00 (Detault)		.,		88	1()()()()	() 1	44 84		()	()()()		
100.00 (Default) Sub-total	5,536	6,028	0.32 4.40	5,744	2.36	12.0	25.59	2.5	2,069	36.01	54	64
Sub-total												
Sub-total of which:												
Sub-total of which: SMEs	5,536	6,028	4.40	5,744	2.36	12.0	25.59	2.5	2,069	36.01	54	
of which: SMEs 0.00 to <0.15	5,536	6,028	33.21	5,744	0.12	0.0	25.59 36.80	2.5	2,069	20.59	54	64
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10	5,536 23 1	6,028	33.21 0	5,744 41 15	0.12 0.04	0.0	25.59 36.80 25.19	2.5 2.5 2.5	2,069	20.59 8.12	0 0	64
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15	23 1 22	6,028 12 1 11	33.21 0 36.22	5,744 41 15 26	0.12 0.04 0.17	0.0 0.0 0.0	25.59 36.80 25.19 43.47	2.5 2.5 2.5 2.5	8 1 7	20.59 8.12 27.75	0 0 0	
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25	5,536 23 1 22 12	6,028 12 1 11 14	33.21 0 36.22 0	5,744 41 15 26 10	0.12 0.04 0.17 0.24	0.0 0.0 0.0 0.0 0.1	36.80 25.19 43.47 30.74	2.5 2.5 2.5 2.5 2.5	8 1 7	20.59 8.12 27.75 23.08	0 0 0 0	
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50	23 1 22 12 12	12 1 1 11 14 26	33.21 0 36.22 0	5,744 41 15 26 10 9	0.12 0.04 0.17 0.24 0.39	0.0 0.0 0.0 0.0 0.1	36.80 25.19 43.47 30.74 33.61	2.5 2.5 2.5 2.5 2.5 2.5 2.5	8 1 7 2	20.59 8.12 27.75 23.08 32.28	0 0 0 0	
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75	23 1 22 12 12 12	12 1 1 11 14 26 26	33.21 0 36.22 0 0	5,744 41 15 26 10 9 11	0.12 0.04 0.17 0.24 0.39	0.0 0.0 0.0 0.0 0.1 0.1	36.80 25.19 43.47 30.74 33.61 36.00	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	8 1 7 2 3 5	20.59 8.12 27.75 23.08 32.28 44.78	0 0 0 0 0	
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50	23 1 22 12 12 12 16 16	12 1 1 11 14 26 26 31	33.21 0 36.22 0 0 0	5,744 41 15 26 10 9 11 16	0.12 0.04 0.17 0.24 0.39 0.70	0.0 0.0 0.0 0.0 0.1 0.1 0.1	36.80 25.19 43.47 30.74 33.61 36.00 23.57	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	8 1 7 2 3 5	20.59 8.12 27.75 23.08 32.28 44.78 44.06	0 0 0 0 0 0	
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75	23 1 22 12 12 16 16	12 1 1 11 14 26 26 31 16	33.21 0 36.22 0 0 0 13.23	5,744 41 15 26 10 9 11 16 7	0.12 0.04 0.17 0.24 0.39 0.70 1.77	0.0 0.0 0.0 0.1 0.1 0.1 0.1	36.80 25.19 43.47 30.74 33.61 36.00 23.57 16.64	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	8 1 7 2 3 5 7	20.59 8.12 27.75 23.08 32.28 44.78 44.06 28.13	0 0 0 0 0 0 0	- - - - - - 0
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5	5,536 23 1 22 12 12 16 16 10 5	6,028 12 1 11 14 26 26 31 16 15	33.21 0 36.22 0 0 0 13.23 0 27.76	5,744 41 15 26 10 9 11 16 7 10 37	0.12 0.04 0.17 0.24 0.39 0.70 1.77 1.27 2.13	0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1	36.80 25.19 43.47 30.74 33.61 36.00 23.57 16.64 28.53	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	8 1 7 2 3 5 7 2	20.59 8.12 27.75 23.08 32.28 44.78 44.06 28.13 55.47	0 0 0 0 0 0 0 0	- - - - - - 0
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <2.5 2.50 to <10.00	5,536 23 1 22 12 12 16 16 10 5 38	6,028 12 1 11 14 26 26 31 16 15 26	33.21 0 36.22 0 0 0 13.23 0 27.76 7.42	5,744 41 15 26 10 9 11 16 7 10	0.12 0.04 0.17 0.24 0.39 0.70 1.77 1.27 2.13 6.52	0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.0 0.0	36.80 25.19 43.47 30.74 33.61 36.00 23.57 16.64 28.53 28.67	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	2,069 8 1 7 2 3 5 7 2 5 31	20.59 8.12 27.75 23.08 32.28 44.78 44.06 28.13 55.47 84.21	0 0 0 0 0 0 0 0 0 0	- - - - - 0 - 0
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10	5,536 23 1 22 12 12 16 16 10 5 38 14	6,028 12 1 11 14 26 26 31 16 15 26 17	33.21 0 36.22 0 0 13.23 0 27.76 7.42 0 22.33	5,744 41 15 26 10 9 11 16 7 10 37 14 22	0.12 0.04 0.17 0.24 0.39 0.70 1.77 1.27 2.13 6.52 3.92 8.19	0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.0 0.0 0.0	36.80 25.19 43.47 30.74 33.61 36.00 23.57 16.64 28.53 28.67 12.33 39.10	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	2,069 8 1 7 2 3 5 7 2 5 31 5 26	20.59 8.12 27.75 23.08 32.28 44.78 44.06 28.13 55.47 84.21 34.28 116.09	0 0 0 0 0 0 0 0 0 0 0 0	- - - - - 0 - 0 1
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10 10.00 to <100.00	5,536 23 1 22 12 12 16 16 10 5 38 14 24 41	6,028 12 1 11 14 26 26 31 16 15 26 17 8	33.21 0 36.22 0 0 13.23 0 27.76 7.42 0 22.33 0.26	5,744 41 15 26 10 9 11 16 7 10 37 14 22 24	2.36 0.12 0.04 0.17 0.24 0.39 0.70 1.77 1.27 2.13 6.52 3.92 8.19 20.96	0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.0 0.0 0.0	25.59 36.80 25.19 43.47 30.74 33.61 36.00 23.57 16.64 28.53 28.67 12.33 39.10 42.59	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	2,069 8 1 7 2 3 5 7 2 5 31 5 26 37	20.59 8.12 27.75 23.08 32.28 44.78 44.06 28.13 55.47 84.21 34.28 116.09 157.75	0 0 0 0 0 0 0 0 0 0 0 1	
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10 10.00 to <100.00 10.00 to <20	5,536 23 1 22 12 12 16 16 10 5 38 14 24 41 0	6,028 12 1 11 14 26 26 31 16 15 26 17 8 8	33.21 0 36.22 0 0 13.23 0 27.76 7.42 0 22.33 0.26	5,744 41 15 26 10 9 11 16 7 10 37 14 22 24 0	2.36 0.12 0.04 0.17 0.24 0.39 0.70 1.77 1.27 2.13 6.52 3.92 8.19 20.96 14.29	0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.0 0.0 0.0	25.59 36.80 25.19 43.47 30.74 33.61 36.00 23.57 16.64 28.53 28.67 12.33 39.10 42.59 12.33	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	2,069 8 1 7 2 3 5 7 2 5 31 5 26 37 0	20.59 8.12 27.75 23.08 32.28 44.78 44.06 28.13 55.47 84.21 34.28 116.09 157.75 43.05	0 0 0 0 0 0 0 0 0 0 1 0 1 2	64 0 1 1 0 1
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10 10.00 to <100.00 10 to <20 20 to <30	5,536 23 1 22 12 12 16 16 10 5 38 14 24 41 0 40	6,028 12 1 11 14 26 31 16 15 26 17 8 8 0 6	33.21 0 36.22 0 0 13.23 0 27.76 7.42 0 22.33 0.26 0	5,744 41 15 26 10 9 11 16 7 10 37 14 22 24 0 22	2.36 0.12 0.04 0.17 0.24 0.39 0.70 1.77 1.27 2.13 6.52 3.92 8.19 20.96 14.29 20.00	0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.0 0.0 0.0	25.59 36.80 25.19 43.47 30.74 33.61 36.00 23.57 16.64 28.53 28.67 12.33 39.10 42.59 12.33 44.81	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	2,069 8 1 7 2 3 5 7 2 5 31 5 26 37	20.59 8.12 27.75 23.08 32.28 44.78 44.06 28.13 55.47 84.21 34.28 116.09 157.75 43.05	0 0 0 0 0 0 0 0 0 0 1 0 1 2	
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.15 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <2.50 2.50 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10 10.00 to <100.00 10 to <20 20 to <30 30.00 to <100.00	5,536 23 1 22 12 12 16 16 10 5 38 14 24 41 0 40 2	6,028 12 1 11 14 26 31 16 15 26 17 8 8 0 6	33.21 0 36.22 0 0 13.23 0 27.76 7.42 0 22.33 0.26 0	5,744 41 15 26 10 9 11 16 7 10 37 14 22 24 0 22 2	2.36 0.12 0.04 0.17 0.24 0.39 0.70 1.77 1.27 2.13 6.52 3.92 8.19 20.96 14.29 20.00 34.15	0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.0 0.0 0.0	25.59 36.80 25.19 43.47 30.74 33.61 36.00 23.57 16.64 28.53 28.67 12.33 39.10 42.59 12.33 44.81 12.33	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	2,069 8 1 7 2 3 5 7 2 5 31 5 26 37 0 36	20.59 8.12 27.75 23.08 32.28 44.78 44.06 28.13 55.47 84.21 34.28 116.09 157.75 43.05 165.77 48.44	0 0 0 0 0 0 0 0 0 1 0 1 2 0 2	
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10 10.00 to <100.00 10 to <20 20 to <30	5,536 23 1 22 12 12 16 16 10 5 38 14 24 41 0 40	6,028 12 1 11 14 26 31 16 15 26 17 8 8 0 6	33.21 0 36.22 0 0 13.23 0 27.76 7.42 0 22.33 0.26 0	5,744 41 15 26 10 9 11 16 7 10 37 14 22 24 0 22	2.36 0.12 0.04 0.17 0.24 0.39 0.70 1.77 1.27 2.13 6.52 3.92 8.19 20.96 14.29 20.00	0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.0 0.0 0.0	25.59 36.80 25.19 43.47 30.74 33.61 36.00 23.57 16.64 28.53 28.67 12.33 39.10 42.59 12.33 44.81	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	2,069 8 1 7 2 3 5 7 2 5 31 5 26 37 0 36	20.59 8.12 27.75 23.08 32.28 44.78 44.06 28.13 55.47 84.21 34.28 116.09 157.75 43.05	0 0 0 0 0 0 0 0 0 0 1 0 1 2	

in € m.	а	b	С	d	е	f	g	h	i	j	k	1
(unless stated otherwise) Exposure class/	On-balance sheet	Off-balance- sheet exposures pre-	Exposure weighted average CCF	Exposure post CCF and post	Exposure weighted average PD	Number of obligors	Exposure weighted average LGD	Exposure weighted average maturity	Risk weighted exposure amount after supporting	Density of risk weighted exposure amount	Expected	Value adjustments and
PD scale	exposures	CCF	(in %)	CRM	(%)	(in 1,000s)	(%)	(in years)	factors	(in %)	Loss amount	Provisions
Other												
0.00 to <0.15	2,002	2,381	4.64	2,505	0.10	1.5	19.03	2.5	348	13.89	1	2
0.00 to <0.10	1,067	1,182	3.36	1,583	0.07	0.9	19.06	2.5	187	11.84	0	0
0.10 to <0.15	935	1,199	5.90	922	0.16	0.6	18.99	2.5	161	17.40	0	2
0.15 to <0.25	1,107	1,173	3.61	1,055	0.25	2.4	28.52	2.5	355	33.65	1	0
0.25 to <0.50	788	918	2.69	696	0.41	3.1	36.83	2.5	384	55.11	1	0
0.50 to <0.75	607	642	3.77	517	0.72	2.1	27.17	2.5	273	52.76	1	1
0.75 to <2.50	537	497	8.40	530	1.57	0.9	30.34	2.5	415	78.29	3	1
0.75 to <1.75	356	393	8.68	358	1.30	0.7	29.53	2.5	257	71.76	1	0
1.75 to <2.5	182	104	7.36	172	2.15	0.1	32.03	2.5	158	91.88	1	0
2.50 to <10.00	183	140	2.52	154	5.66	0.1	18.72	2.5	110	71.49	2	1
2.50 to <5	128	111	0.50	99	4.10	0.1	18.96	2.5	66	66.72	1	0
5 to <10	55	30	10.05	55	8.45	0.0	18.28	2.5	44	79.99	1	1
10.00 to <100.00	68	131	6.53	51	21.52	1.1	32.63	2.5	90	177.58	3	1
10 to <20	17	12	2.35	15	14.06	0.0	34.98	2.5	28	179.18	1	0
20 to <30	39	78	10.65	24	20.15	1.1	41.37	2.5	54	230.13	2	1
30.00 to <100.00	12	41	0	12	33.92	0.0	12.33	2.5	9	71.77	0	0
100.00 (Default)	83	2	0.20	82	100.00	0.1	44.83	2.5	0	0.00	38	56
Sub-total	5,374	5,885	4.34	5,591	2.19	11.3	25.36	2.5	1,975	35.32	49	62
All exposure classes												
Total	5,540	6,042	4.40	5,806	2.33	12.0	25.79	2.5	2,071	35.68	54	64

Advanced IRB exposure

Article 452 (g) (i-v) CRR

The following series of tables details Deutsche Bank's advanced internal rating based (IRB) exposures distributed on its internal rating scale for all relevant regulatory exposure classes. The tables exclude the counterparty credit risk position from derivatives and securities financing transactions which are presented separately in the section "Counterparty credit risk" in this report from page 84 to 98.

The tables show the on-balance sheet as well as the off-balance sheet exposure with their corresponding exposure-weighted credit conversion factors. All undrawn commitment exposure values shown below are assigned to the exposure class of the borrower and not to the exposure class of the counterparty providing Deutsche Bank credit protection.

In addition, the tables provide the exposure post CRM and CCF, where exposures covered by guarantees or credit derivatives are assigned to the protection seller.

The exposure post CCF and CRM is presented in conjunction with exposures-weighted average PD, LGD, maturity as well as the RWA and the average risk weight (RW). The effect of double default, as far as applicable to exposures outside of former Postbank, is considered in the average RW. It implies that for a guaranteed exposure a loss only occurs if the primary obligor and the guarantor fail to meet their obligations at the same time. The tables provide the defaulted exposure separately, where Deutsche Bank applies an LGD estimate already incorporating potential unexpected losses in the loss rate estimate as required by Article 181 (1) (h) CRR.

Further details in the tables are number of obligors, regulatory expected loss and provisions comprising specific risk adjustments.

EU CR6 – AIRB approach – Credit risk exposures by exposure class and PD range

in € m.	a	b	С	d	e	f	a	h	i	i	k	Jun 30, 2022
(unless stated otherwise)	a			u		'	<u> </u>	Exposure	Risk weighted	Density of risk	K	
(amood stated carer moo)		Off-balance-	Exposure		Exposure		Exposure	weighted	exposure	weighted		Value
Francisco de est	On-balance	sheet	weighted	Exposure post	weighted	Number of	weighted	average	amount after	exposure	E	adjustments
Exposure class/ PD scale	sheet exposures	exposures pre- CCF	average CCF (in %)	CCF and post CRM	average PD (%)	obligors (in 1,000s)	average LGD (%)	maturity (in years)	supporting factors	amount (in %)	Expected Loss amount	and Provisions
Central governments	ехрозитез		(111 70)	ORIVI	(70)	(111 1,0003)	(70)	(iii years)	1801013	(1170)	Loss amount	1 10 13 10 13
and central banks												
0.00 to <0.15	110,142	377	24.96	124,606	0.00	0.1	50.39	1.3	1,082	0.87	2	0
0.00 to <0.10	109,957	375	24.99	124,420	0.00	0.1	50.39	1.3	1,033	0.83	2	0
0.10 to <0.15	185	2	20.10	186	0.14	0.0	50.00	0.9	49	26.41	0	0
0.15 to <0.25	1,336	7	20.17	1,659	0.23	0.0	50.00	1.6	758	45.67	2	0
0.25 to <0.50	1,247	145	20.05	1,276	0.39	0.0	49.89	1.9	825	64.65	2	0
0.50 to <0.75	620	2	55.03	410	0.64	0.0	50.00	0.9	279	67.92	1	0
0.75 to <2.50	5,445	170	35.28	5,003	1.76	0.0	97.35	4.8	12,120	242.23	2	1
0.75 to <1.75	87	1	97.62	18	1.07	0.0	31.94	3.6	13	74.71	0	0
1.75 to <2.5	5,358	170	35.03	4,986	1.76	0.0	97.58	4.8	12,107	242.83	2	1
2.50 to <10.00	1,852	692	45.52	395	6.18	0.0	39.45	3.2	361	91.53	4	10
2.50 to <5	681	171	35.24	217	4.73	0.0	49.86	4.8	181	83.38	0	3
5 to <10	1,171	521	48.90	178	7.95	0.0	26.73	1.3	180	101.49	4	8
10.00 to <100.00	1,389	34	35.00	694	13.01	0.0	41.97	1.1	1,349	194.18	38	5
10 to <20	1,389	34	35.00	694	13.01	0.0	41.97	1.1	1,349	194.18	38	5
20 to <30	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	_
30.00 to <100.00	0	0	0	0	0.00	0.0	0.00	0.0	0	0.00	0	_
100.00 (Default)	164	2	35.02	70	100.00	0.0	18.94	1.1	137	195.61	13	12
Sub-total	122,195	1,430	35.92	134,114	0.21	0.2	52.04	1.5	16,910	12.61	65	29
1 20 2												
Institutions			44.04	44.000					4.000	40.07		
0.00 to <0.15	9,043	5,486	41.31	14,839	0.05	0.4	55.88	1.4	1,836	12.37	3	2
0.00 to <0.10	8,553	5,005	42.06	14,143	0.05	0.4	56.72	1.4	1,660	11.74	2	2
0.10 to <0.15	490	480	33.59	695	0.15	0.1	38.86	0.9	176	25.25	0	0
0.15 to <0.25		222	35.79	532	0.25	0.1	48.96	1.2	265	49.83	1	0
0.25 to <0.50	192	531	53.48	418	0.43	0.1	31.09	0.8	200	47.95	1	0
0.50 to <0.75	1,621	453	74.49	1,764	0.70	0.1	30.56	1.0	997	56.56	4	2
0.75 to <2.50	824	446	18.46	772	1.72	0.1	8.99	2.7	193	25.00	1	1
0.75 to <1.75	186	41	59.76	205	1.13	0.0	15.34	2.2	69	33.61	0	0
1.75 to <2.5	638	406	14.34	567	1.93	0.0	6.69	2.9	124	21.89	1	0
2.50 to <10.00	1,249	659	43.85	1,313	3.51	0.0	10.99	1.9	483	36.75	6	5
2.50 to <5	1,195	338	61.94	1,268	3.32	0.0	10.76	1.9	451	35.56	5	3
5 to <10	54	321	24.80	46	8.74	0.0	17.33	1.1	32	69.69	1	3
10.00 to <100.00	31	59	43.89	56	13.58	0.0	19.38	3.6	61	109.19	2	0
10 to <20	31	59	43.89	56	13.57	0.0	19.37	3.6	61	109.15	2	0
20 to <30	0	0	0	0	0	0	0	0	0	0	0	_
30.00 to <100.00	0	0	0	0	49.5004	2.00	43.9800	0.00	0	213.1104	0	0
100.00 (Default)	1,903	1	100.00	1,904	100.00	0.0	0.30	4.9	65	3.41	4	1
Sub-total	15,163	7,857	42.83	21,597	9.23	0.8	43.76	1.7	4,101	18.99	22	12

												Jun 30, 2022
in € m.	a	b	C	d	<u>e</u>	f	g	h	i	<u>j</u> _	k	
(unless stated otherwise)	On-balance	Off-balance- sheet	Exposure	Exposure post	Exposure weighted	Number of	Exposure weighted	Exposure weighted average	Risk weighted exposure amount after	Density of risk weighted exposure		Value adjustments
Exposure class/ PD scale	sheet exposures	exposures pre- CCF	average CCF (in %)	CCF and post CRM	average PD (%)	obligors (in 1,000s)	average LGD (%)	maturity (in years)	supporting factors	amount (in %)	Expected Loss amount	and Provisions
Corporates			(,0)		(10)	(1,0000)	(,,,	() = =)		(,5)		
0.00 to <0.15	82,081	125,781	32.20	123,430	0.08	19.4	32.39	2.1	26,384	21.38	57	22
0.00 to <0.10	62,516	99,772	32.25	96,559	0.06	14.2	32.84	2.1	15,532	16.09	20	13
0.10 to <0.15	19,565	26,009	32.00	26,871	0.15	5.2	30.74	2.3	10,852	40.38	37	9
0.15 to <0.25	22,697	21,512	29.39	27,919	0.24	6.3	28.04	2.4	8,073	28.91	18	12
0.25 to <0.50	22,928	17,629	32.16	27,403	0.41	5.9	28.70	2.3	10,980	40.07	32	21
0.50 to <0.75	20,565	11,015	32.84	22,763	0.67	5.0	26.35	2.4	10,167	44.66	44	28
0.75 to <2.50	40,351	54,397	14.88	43,211	1.50	7.1	27.99	2.5	24,011	55.57	163	113
0.75 to <1.75	17,164	12,801	32.36	19,053	1.11	4.0	23.94	2.2	9,514	49.93	52	41
1.75 to <2.5	23,187	41,595	9.53	24,158	1.80	3.1	31.17	2.8	14,497	60.01	111	72
2.50 to <10.00	33,995	28,596	30.55	38,273	5.27	4.0	20.28	2.6	26,708	69.78	374	289
2.50 to <5	22,786	20,392	31.20	25,932	3.92	3.3	23.20	2.7	19,385	74.75	228	196
5 to <10	11,208	8,204	28.93	12,342	8.10	0.8	14.17	2.2	7,324	59.34	146	93
10.00 to <100.00	5,819	2,660	39.62	5,293	18.11	0.9	20.28	2.0	4,407	83.27	155	112
10 to <20	3,840	2,197	38.12	3,585	13.47	0.4	18.09	2.1	2,833	79.03	89	68
20 to <30	997	316	49.82	771	22.14	0.3	24.39	2.0	991	128.56	42	31
30.00 to <100.00	982	146	40.07	937	32.55	0.2	25.27	1.5	583	62.21	24	13
100.00 (Default)	16,064	2,602	27.66	15,888	100.00	3.2	24.39	3.1	3,173	19.97	3,859	3,903
Sub-total	244,499	264,191	28.28	304,181	6.56	51.8	28.43	2.3	113,903	37.45	4,702	4,500
of which:	244,499		28.28	304,181	6.56	51.8	28.43	2.3	113,903	37.45	4,702	4,500
of which:		264,191		,							,	
of which: SMEs 0.00 to <0.15	3,906	3,337	32.52	4,976	0.10	5.0	29.55	3.2	709	14.24	1	1
of which: SMEs 0.00 to <0.15 0.00 to <0.10	3,906 2,310	3,337 2,047	32.52 31.72	4,976 3,026	0.10 0.07	5.0 2.7	29.55 29.33	3.2 3.3	709 336	14.24 11.10	1 1	1
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15	3,906 2,310 1,596	3,337 2,047 1,290	32.52 31.72 33.80	4,976 3,026 1,950	0.10 0.07 0.15	5.0 2.7 2.3	29.55 29.33 29.90	3.2 3.3 3.2	709 336 373	14.24 11.10 19.13	1 1 1	1 1 0
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25	3,906 2,310 1,596 2,732	3,337 2,047 1,290 1,497	32.52 31.72 33.80 33.21	4,976 3,026 1,950 2,984	0.10 0.07 0.15 0.24	5.0 2.7 2.3 3.0	29.55 29.33 29.90 34.89	3.2 3.3 3.2 3.4	709 336 373 923	14.24 11.10 19.13 30.94	1 1 1 1 3	1 1 0 2
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50	3,906 2,310 1,596 2,732 2,101	3,337 2,047 1,290 1,497 1,605	32.52 31.72 33.80 33.21 34.39	4,976 3,026 1,950 2,984 2,357	0.10 0.07 0.15 0.24 0.41	5.0 2.7 2.3 3.0 2.8	29.55 29.33 29.90 34.89 32.58	3.2 3.3 3.2 3.4 3.1	709 336 373 923 802	14.24 11.10 19.13 30.94 34.02	1 1 1 3 3	1 1 0 2 3
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75	3,906 2,310 1,596 2,732 2,101 2,258	3,337 2,047 1,290 1,497 1,605 1,071	32.52 31.72 33.80 33.21 34.39 38.97	4,976 3,026 1,950 2,984 2,357 2,325	0.10 0.07 0.15 0.24 0.41 0.68	5.0 2.7 2.3 3.0 2.8 2.2	29.55 29.33 29.90 34.89 32.58 35.77	3.2 3.3 3.2 3.4 3.1 2.5	709 336 373 923 802 1,042	14.24 11.10 19.13 30.94 34.02 44.81	1 1 1 3 3 3 5	1 1 0 2 3 4
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50	3,906 2,310 1,596 2,732 2,101 2,258 4,091	3,337 2,047 1,290 1,497 1,605 1,071 1,865	32.52 31.72 33.80 33.21 34.39 38.97 34.04	4,976 3,026 1,950 2,984 2,357 2,325 3,873	0.10 0.07 0.15 0.24 0.41 0.68 1.54	5.0 2.7 2.3 3.0 2.8 2.2 3.1	29.55 29.33 29.90 34.89 32.58 35.77 37.96	3.2 3.3 3.2 3.4 3.1 2.5 2.9	709 336 373 923 802 1,042 1,769	14.24 11.10 19.13 30.94 34.02 44.81 45.67	1 1 1 3 3 3 5 23	1 1 0 2 3 4
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75	3,906 2,310 1,596 2,732 2,101 2,258 4,091 1,624	3,337 2,047 1,290 1,497 1,605 1,071 1,865 1,164	32.52 31.72 33.80 33.21 34.39 38.97 34.04 31.21	4,976 3,026 1,950 2,984 2,357 2,325 3,873 1,612	0.10 0.07 0.15 0.24 0.41 0.68 1.54	5.0 2.7 2.3 3.0 2.8 2.2 3.1	29.55 29.33 29.90 34.89 32.58 35.77 37.96 33.32	3.2 3.3 3.2 3.4 3.1 2.5 2.9 2.4	709 336 373 923 802 1,042 1,769 823	14.24 11.10 19.13 30.94 34.02 44.81 45.67 51.09	1 1 1 3 3 3 5 23 6	1 1 0 2 3 4 19
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5	3,906 2,310 1,596 2,732 2,101 2,258 4,091 1,624 2,466	3,337 2,047 1,290 1,497 1,605 1,071 1,865 1,164 701	32.52 31.72 33.80 33.21 34.39 38.97 34.04 31.21 38.74	4,976 3,026 1,950 2,984 2,357 2,325 3,873 1,612 2,262	0.10 0.07 0.15 0.24 0.41 0.68 1.54 1.13	5.0 2.7 2.3 3.0 2.8 2.2 3.1 1.7	29.55 29.33 29.90 34.89 32.58 35.77 37.96 33.32 41.27	3.2 3.3 3.2 3.4 3.1 2.5 2.9 2.4 3.3	709 336 373 923 802 1,042 1,769 823 945	14.24 11.10 19.13 30.94 34.02 44.81 45.67 51.09 41.80	1 1 1 3 3 3 5 23 6	1 1 0 2 3 4 19 5
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00	3,906 2,310 1,596 2,732 2,101 2,258 4,091 1,624 2,466 2,353	3,337 2,047 1,290 1,497 1,605 1,071 1,865 1,164 701	32.52 31.72 33.80 33.21 34.39 38.97 34.04 31.21 38.74	4,976 3,026 1,950 2,984 2,357 2,325 3,873 1,612 2,262 2,090	0.10 0.07 0.15 0.24 0.41 0.68 1.54 1.13 1.82 4.98	5.0 2.7 2.3 3.0 2.8 2.2 3.1 1.7 1.3	29.55 29.33 29.90 34.89 32.58 35.77 37.96 33.32 41.27 35.22	3.2 3.3 3.2 3.4 3.1 2.5 2.9 2.4 3.3 2.4	709 336 373 923 802 1,042 1,769 823 945 1,668	14.24 11.10 19.13 30.94 34.02 44.81 45.67 51.09 41.80 79.83	1 1 1 3 3 3 5 23 6 17	1 0 2 3 4 19 5 14
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5	3,906 2,310 1,596 2,732 2,101 2,258 4,091 1,624 2,466 2,353 1,802	3,337 2,047 1,290 1,497 1,605 1,071 1,865 1,164 701 949 773	32.52 31.72 33.80 33.21 34.39 38.97 34.04 31.21 38.74 36.38	4,976 3,026 1,950 2,984 2,357 2,325 3,873 1,612 2,262 2,090 1,507	0.10 0.07 0.15 0.24 0.41 0.68 1.54 1.13 1.82 4.98 3.77	5.0 2.7 2.3 3.0 2.8 2.2 3.1 1.7 1.3 1.5	29.55 29.33 29.90 34.89 32.58 35.77 37.96 33.32 41.27 35.22 37.76	3.2 3.3 3.2 3.4 3.1 2.5 2.9 2.4 3.3 2.4 2.6	709 336 373 923 802 1,042 1,769 823 945 1,668 1,181	14.24 11.10 19.13 30.94 34.02 44.81 45.67 51.09 41.80 79.83 78.38	1 1 1 3 3 3 5 23 6 17 34	1 0 2 3 4 19 5 14 26
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10	3,906 2,310 1,596 2,732 2,101 2,258 4,091 1,624 2,466 2,353 1,802	3,337 2,047 1,290 1,497 1,605 1,071 1,865 1,164 701 949 773 175	32.52 31.72 33.80 33.21 34.39 38.97 34.04 31.21 38.74 36.38 32.55 53.30	4,976 3,026 1,950 2,984 2,357 2,325 3,873 1,612 2,262 2,090 1,507 583	0.10 0.07 0.15 0.24 0.41 0.68 1.54 1.13 1.82 4.98 3.77 8.11	5.0 2.7 2.3 3.0 2.8 2.2 3.1 1.7 1.3 1.5	29.55 29.33 29.90 34.89 32.58 35.77 37.96 33.32 41.27 35.22 37.76 28.66	3.2 3.3 3.2 3.4 3.1 2.5 2.9 2.4 3.3 2.4 2.6 2.0	709 336 373 923 802 1,042 1,769 823 945 1,668 1,181	14.24 11.10 19.13 30.94 34.02 44.81 45.67 51.09 41.80 79.83 78.38 83.59	1 1 1 3 3 3 5 23 6 17 34 21	1 1 0 2 3 4 19 5 14 26 19
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10 10.00 to <10.00	3,906 2,310 1,596 2,732 2,101 2,258 4,091 1,624 2,466 2,353 1,802 551	3,337 2,047 1,290 1,497 1,605 1,071 1,865 1,164 701 949 773 175	32.52 31.72 33.80 33.21 34.39 38.97 34.04 31.21 38.74 36.38 32.55 53.30 33.94	4,976 3,026 1,950 2,984 2,357 2,325 3,873 1,612 2,262 2,090 1,507 583 329	0.10 0.07 0.15 0.24 0.41 0.68 1.54 1.13 1.82 4.98 3.77 8.11 21.13	5.0 2.7 2.3 3.0 2.8 2.2 3.1 1.7 1.3 1.5 1.3 0.3	29.55 29.33 29.90 34.89 32.58 35.77 37.96 33.32 41.27 35.22 37.76 28.66 41.95	3.2 3.3 3.2 3.4 3.1 2.5 2.9 2.4 3.3 2.4 2.6 2.0 2.8	709 336 373 923 802 1,042 1,769 823 945 1,668 1,181 487 521	14.24 11.10 19.13 30.94 34.02 44.81 45.67 51.09 41.80 79.83 78.38 83.59 158.45	1 1 1 3 3 5 23 6 17 34 21	1 1 0 2 3 4 19 5 14 26 19 7
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10 10.00 to <100.00 10 to <20	3,906 2,310 1,596 2,732 2,101 2,258 4,091 1,624 2,466 2,353 1,802 551 505	3,337 2,047 1,290 1,497 1,605 1,071 1,865 1,164 701 949 773 175 131	32.52 31.72 33.80 33.21 34.39 38.97 34.04 31.21 38.74 36.38 32.55 53.30 33.94 26.20	4,976 3,026 1,950 2,984 2,357 2,325 3,873 1,612 2,262 2,090 1,507 583 329 163	0.10 0.07 0.15 0.24 0.41 0.68 1.54 1.13 1.82 4.98 3.77 8.11 21.13 13.57	5.0 2.7 2.3 3.0 2.8 2.2 3.1 1.7 1.3 1.5 1.3 0.3 0.4	29.55 29.33 29.90 34.89 32.58 35.77 37.96 33.32 41.27 35.22 37.76 28.66 41.95 41.02	3.2 3.3 3.2 3.4 3.1 2.5 2.9 2.4 3.3 2.4 2.6 2.0 2.8 2.5	709 336 373 923 802 1,042 1,769 823 945 1,668 1,181 487 521	14.24 11.10 19.13 30.94 34.02 44.81 45.67 51.09 41.80 79.83 78.38 83.59 158.45	1 1 1 3 3 5 23 6 17 34 21 14	1 1 0 2 3 4 19 5 14 26 19 7 23
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10 10.00 to <100.00 10 to <20 20 to <30	3,906 2,310 1,596 2,732 2,101 2,258 4,091 1,624 2,466 2,353 1,802 551 505 207	3,337 2,047 1,290 1,497 1,605 1,071 1,865 1,164 701 949 773 175 131 92	32.52 31.72 33.80 33.21 34.39 38.97 34.04 31.21 38.74 36.38 32.55 53.30 33.94 26.20 63.68	4,976 3,026 1,950 2,984 2,357 2,325 3,873 1,612 2,262 2,090 1,507 583 329 163 60	0.10 0.07 0.15 0.24 0.41 0.68 1.54 1.13 1.82 4.98 3.77 8.11 21.13 13.57 21.33	5.0 2.7 2.3 3.0 2.8 2.2 3.1 1.7 1.3 1.5 1.3 0.3 0.4	29.55 29.33 29.90 34.89 32.58 35.77 37.96 33.32 41.27 35.22 37.76 28.66 41.95 41.02 66.78	3.2 3.3 3.2 3.4 3.1 2.5 2.9 2.4 3.3 2.4 2.6 2.0 2.8 2.5	709 336 373 923 802 1,042 1,769 823 945 1,668 1,181 487 521 233	14.24 11.10 19.13 30.94 34.02 44.81 45.67 51.09 41.80 79.83 78.38 83.59 158.45 143.00 237.99	1 1 1 3 3 5 23 6 17 34 21 14 27	1 1 0 2 3 4 19 5 14 26 19 7 23 6
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10 10.00 to <100.00 10 to <20	3,906 2,310 1,596 2,732 2,101 2,258 4,091 1,624 2,466 2,353 1,802 551 505	3,337 2,047 1,290 1,497 1,605 1,071 1,865 1,164 701 949 773 175 131	32.52 31.72 33.80 33.21 34.39 38.97 34.04 31.21 38.74 36.38 32.55 53.30 33.94 26.20	4,976 3,026 1,950 2,984 2,357 2,325 3,873 1,612 2,262 2,090 1,507 583 329 163	0.10 0.07 0.15 0.24 0.41 0.68 1.54 1.13 1.82 4.98 3.77 8.11 21.13 13.57	5.0 2.7 2.3 3.0 2.8 2.2 3.1 1.7 1.3 1.5 1.3 0.3 0.4	29.55 29.33 29.90 34.89 32.58 35.77 37.96 33.32 41.27 35.22 37.76 28.66 41.95 41.02	3.2 3.3 3.2 3.4 3.1 2.5 2.9 2.4 3.3 2.4 2.6 2.0 2.8 2.5	709 336 373 923 802 1,042 1,769 823 945 1,668 1,181 487 521	14.24 11.10 19.13 30.94 34.02 44.81 45.67 51.09 41.80 79.83 78.38 83.59 158.45	1 1 1 3 3 5 23 6 17 34 21 14	1 1 0 2 3 4 19 5 14 26 19 7 23

												Jun 30, 2022
in € m.	a	b	C	d	e	f	g	h	i	j_	k	
(unless stated otherwise) Exposure class/ PD scale	On-balance sheet exposures	Off-balance- sheet exposures pre- CCF	Exposure weighted average CCF (in %)	Exposure post CCF and post CRM	Exposure weighted average PD (%)	Number of obligors (in 1,000s)	Exposure weighted average LGD (%)	Exposure weighted average maturity (in years)	Risk weighted exposure amount after supporting factors	Density of risk weighted exposure amount (in %)	Expected Loss amount	Value adjustments and Provisions
Specialized Lending												
0.00 to <0.15	7,365	463	62.97	7,524	0.11	0.1	4.84	3.1	347	4.62	0	2
0.00 to <0.10	4,233	294	46.73	4,281	0.08	0.1	4.58	3.0	165	3.85	0	0
0.10 to <0.15	3,132	169	91.34	3,243	0.14	0.1	5.18	3.1	182	5.62	0	2
0.15 to <0.25	3,592	83	19.09	3,518	0.23	0.1	5.79	2.6	224	6.37	0	0
0.25 to <0.50	4,008	702	82.41	4,490	0.39	0.1	14.29	2.6	1,038	23.13	2	2
0.50 to <0.75	4,438	357	77.56	4,687	0.65	0.1	13.11	2.8	1,164	24.84	4	4
0.75 to <2.50	6,456	1,386	50.97	6,745	1.43	0.3	9.46	2.7	1,664	24.67	9	8
0.75 to <1.75	3,284	664	47.43	3,428	1.09	0.2	9.81	2.4	778	22.70	4	3
1.75 to <2.5	3,171	722	54.23	3,317	1.78	0.1	9.10	2.9	886	26.71	6	5
2.50 to <10.00	14,400	1,869	28.47	14,424	5.89	0.4	6.78	2.3	3,542	24.55	54	39
2.50 to <5	7,715	968	36.34	7,739	4.13	0.2	7.70	2.5	1,979	25.57	23	21
5 to <10	6,685	901	20.01	6,686	7.93	0.2	5.70	2.0	1,563	23.38	31	18
10.00 to <100.00	1,922	302	26.57	1,994	14.79	0.0	10.25	2.4	1,012	50.75	33	18
10 to <20	1,556	284	27.02	1,625	13.01	0.0	7.90	2.5	585	36.01	17	11
20 to <30	340	18	19.56	344	22.01	0.0	21.97	1.9	424	123.44	17	8
30.00 to <100.00	25	0	0	25	31.01	0.0	2.00	4.1	2	9.49	0	0
100.00 (Default)	3,100	72	41.92	3,090	100.00	0.1	22.79	2.9	436	14.10	714	631
Sub-total	45,281	5,234	47.99	46,473	9.46	1.4	9.36	2.6	9,427	20.29	818	705
Other												
0.00 to <0.15	70,810	121,981	32.07	110,930	0.08	14.3	34.38	2.0	25,328	22.83	55	19
0.00 to <0.10	55,973	97,431	32.22	89,252	0.06	11.5	34.32	2.0	15,031	16.84	19	13
0.10 to <0.15	14,837	24,550	31.50	21,678	0.15	2.8	34.64	2.1	10,297	47.50	36	6
0.15 to <0.25	16,373	19,932	29.15	21,416	0.24	3.3	30.74	2.2	6,925	32.34	15	10
0.25 to <0.50	16,819	15,323	29.62	20,557	0.41	3.0	31.40	2.2	9,140	44.46	27	16
0.50 to <0.75	13,869	9,587	30.49	15,751	0.67	2.6	28.90	2.2	7,960	50.54	35	20
0.75 to <2.50	29,804	51,146	13.21	32,593	1.50	3.7	30.65	2.4	20,578	63.14	131	86
0.75 to <1.75	12,256	10,973	31.57	14,014	1.12	2.1	26.32	2.1	7,912	56.46	42	34
1.75 to <2.5	17,549	40,173	8.22	18,580	1.79	1.6	33.88	2.7	12,666	68.17	89	53
2.50 to <10.00	17,242	25,779	30.48	21,759	4.88	2.1	27.80	2.7	21,498	98.80	286	225
2.50 to <5	13,270	18,651	30.88	16,686	3.84	1.8	29.07	2.8	16,224	97.24	184	157
5 to <10	3,973	7,128	29.45	5,074	8.31	0.4	23.66	2.4	5,274	103.95	102	68
10.00 to <100.00	3,393	2,226	41.73	2,970	20.01	0.4	24.61	1.7	2,875	96.78	94	70
10 to <20	2,077	1,821	40.46	1,797	13.88	0.2	25.22	1.8	2,015	112.13	64	51
20 to <30	486	282	51.01	367	22.39	0.1	19.73	2.3	424	115.49	17	11
30.00 to <100.00	829	123	39.26	806	32.59	0.1	25.48	1.1	435	54.03	14	9
100.00 (Default)	10,680	2,174	27.93	10,479	100.00	1.0	15.83	3.5	2,147	20.49	1,640	1,660
Sub-total	178,990	248,147	27.62	236,456	5.48	30.4	31.36	2.2	96,451	40.79	2,282	2,106

												Jun 30, 2022
in € m.	a	b	C	d	e	f	g	h	<u> i </u>		k	I
(unless stated otherwise) Exposure class/	On-balance sheet	Off-balance- sheet exposures pre-	Exposure weighted average CCF	Exposure post CCF and post	Exposure weighted average PD	Number of obligors	Exposure weighted average LGD	Exposure weighted average maturity	Risk weighted exposure amount after supporting	Density of risk weighted exposure amount	Expected	Value adjustments and
PD scale Retail	exposures	CCF	(in %)	CRM	(%)	(in 1,000s)	(%)	(in years)	factors	(in %)	Loss amount	Provisions
0.00 to <0.15	32,055	18,144	54.97	42,997	0.11	3,533.0	25.45	14.0	2,132	4.96	12	9
0.00 to <0.10	16,335	14,986	53.61	25,153	0.08	2,814.3	28.67	11.3	978	3.89	6	4
0.10 to <0.15	15,720	3,158	61.44	17,843	0.15	718.7	20.92	17.8	1,153	6.46	6	4
0.15 to <0.25	27,221	4,182	60.78	29,839	0.15	808.4	20.92	21.4	2,802	9.39	15	12
0.25 to <0.50	39,306	5,084	66.14	42,610	0.41	782.7	20.66	23.7	6,129	14.38	37	28
0.50 to <0.75	44.987	4.897	75.45	48.517	0.73	828.4	22.38	23.2	11,210	23.11	79	58
0.75 to <2.50	46,535	4,216	72.29	49,157	0.73	1,427.9	27.81	18.6	20,778	42.27	214	140
0.75 to <2.30	29,375	2,911	75.93	31,381	1.26	753.6	25.64	20.0	11,397	36.32	101	61
1.75 to <2.5	17,160	1,305	64.17	17,776	2.04	674.3	31.63	16.3	9,382	52.78	113	79
2.50 to <10.00	18,772	1,156	63.30	19,061	4.90	802.9	33.11	16.5	13,150	68.99	302	277
2.50 to <5	14,112	881	59.62	14,276	3.87	626.9	33.78	15.6	9,298	65.13	184	171
5 to <10	4,660	275	75.07	4,785	7.97	176.0	31.11	19.2	3,852	80.51	119	106
10.00 to <100.00	3,498	206	77.07	3,519	21.52	150.3	30.71	18.4	3,927	111.58	233	178
10 to <20	1,964	130	80.26	2,011	13.88	77.7	29.95	18.8	2,057	102.29	83	71
20 to <30	720	44	72.95	713	22.60	33.9	31.93	17.4	874	122.67	51	43
30.00 to <100.00	814	32	69.69	796	39.88	38.7	31.53	18.5	996	125.15	99	64
100.00 (Default)	3,744	107	59.06	3,736	100.00	203.4	45.47	9.7	1,246	33.35	1,727	1,784
Sub-total	216,118	37,992	62.05	239,436	2.68	8,537.1	24.81	19.7	61,374	25.63	2,619	2,487
of which:	_											
Secured by real estate property SMEs												
0.00 to <0.15	1,371	191	58.35	1,476	0.12	7.9	14.11	14.9	50	3.38	0	0
0.00 to <0.10	454	78	60.93	500	0.09	3.1	13.81	14.3	13	2.58	0	0
0.10 to <0.15	917	113	56.57	976	0.14	4.8	14.26	15.2	37	3.79	0	0
0.15 to <0.25	1,606	131	58.87	1,678	0.23	7.3	14.39	15.7	93	5.56	1	0
0.25 to <0.50	1,646	121	57.81	1,706	0.40	7.2	14.86	15.8	144	8.47	1	1
0.50 to <0.75	1,363	88	56.14	1,392	0.66	6.0	14.58	15.9	167	12.02	1	1
0.75 to <2.50	1,629	72	54.47	1,617	1.39	6.6	14.82	15.8	326	20.17	3	4
0.75 to <1.75	974	45	57.75	963	1.11	4.2	15.29	15.9	175	18.12	2	2
1.75 to <2.5	655	27	48.88	655	1.82	2.5	14.13	15.6	152	23.19	2	2
2.50 to <10.00	618	24	53.39	620	4.33	2.5	14.20	15.1	233	37.54	4	6
2.50 to <5	526	21	54.82	529	3.67	2.1	14.28	15.2	186	35.08	3	4
5 to <10	92	4	44.93	91	8.19	0.4	13.73	14.3	47	51.78	1	1
10.00 to <100.00	80	5	45.56	79	19.39	0.4	13.59	14.6	50	63.63	2	2
10 to <20	45	4	45.28	46	13.35	0.2	14.29	15.6	28	62.13	1	1
20 to <30	19	1	47.28	18	22.72	0.1	13.71	13.8	13	71.34	1	1
30.00 to <100.00	16	0	64.00	15	33.32	0.1	11.41	12.8	9	59.12	1	1
100.00 (Default)	83	0	39.39	79	100.00	0.4	29.86	9.9	35	44.07	25	34
Sub-total	8,395	633	57.31	8,647	1.91	38.3	14.67	15.5	1.099	12.71	37	47

in € m.	a	b	С	d	е	f	α	h	i	i	k	Jun 30, 2022
(unless stated otherwise)	On-balance	Off-balance-	Exposure weighted	Exposure post	Exposure weighted	Number of	Exposure weighted	Exposure weighted average	Risk weighted exposure amount after	Density of risk weighted exposure	K	Value adjustments
Exposure class/ PD scale	sheet exposures	exposures pre- CCF	average CCF (in %)	CCF and post CRM	average PD (%)	obligors (in 1,000s)	average LGD (%)	maturity (in years)	supporting factors	amount (in %)	Expected Loss amount	and Provisions
Secured by real estate												
property non-SMEs												
0.00 to <0.15	27,189	983	59.48	27,770	0.12	252.1	14.68	20.1	1,217	4.38	5	5
0.00 to <0.10	13,721	439	58.59	13,978	0.09	144.7	13.74	19.1	448	3.20	2	2
0.10 to <0.15	13,468	543	60.21	13,793	0.15	107.4	15.62	21.1	770	5.58	3	3
0.15 to <0.25	23,313	1,210	72.48	24,185	0.25	171.9	16.30	24.1	1,996	8.25	10	10
0.25 to <0.50	34,655	2,408	82.69	36,634	0.41	226.9	18.02	25.7	4,834	13.20	27	23
0.50 to <0.75	39,879	2,999	87.78	42,493	0.73	253.0	19.98	25.0	9,247	21.76	63	47
0.75 to <2.50	34,178	2,451	88.38	36,314	0.40	207.0	21.31	22.7	13,596	37.44	120	68
0.75 to <1.75	23,585	1,878	89.84	25,258	1.28	143.2	21.29	22.9	8,484	33.59	70	37
1.75 to <2.5	10,592	573	83.59	11,057	2.10	63.8	21.38	22.2	5,111	46.23	51	31
2.50 to <10.00	9,267	332	81.65	9,512	4.97	62.2	18.71	25.9	6,183	65.00	90	92
2.50 to <5	6,838	265	79.84	7,029	3.93	46.3	18.47	24.6	4,035	57.40	52	59
5 to <10	2,430	66	88.89	2,484	7.92	15.9	19.41	29.7	2,149	86.50	38	33
10.00 to <100.00	2,082	53	93.43	2,115	22.04	13.8	19.99	25.6	2,410	113.93	95	54
10 to <20	1,173	33	94.47	1,200	13.93	7.6	19.75	25.7	1,303	108.63	33	22
20 to <30	418	9	89.61	422	22.70	2.8	20.01	25.0	519	123.03	19	13
30.00 to <100.00	491	11	93.48	493	41.18	3.4	20.56	25.9	587	119.06	43	19
100.00 (Default)	1,331	27	95.23	1,351	100.00	12.1	21.05	21.4	654	48.37	293	271
Sub-total	171,893	10,463	82.18	180,375	1.66	1,199.0	18.48	23.8	40,136	22.25	704	569
Qualifying Revolving												
0.00 to <0.15	55	11,130	68.56	7,685	0.08	2,488.1	55.53	0.0	245	3.18	4	1
0.00 to <0.10	23	9,609	68.62	6,617	0.07	2,087.4	55.81	0.0	186	2.81	3	0
0.10 to <0.15	32	1,520	68.19	1,068	0.16	400.7	53.79	0.0	59	5.51	1	0
0.15 to <0.25	63	1,257	66.14	895	0.25	368.2	53.49	0.0	70	7.88	1	0
0.25 to <0.50	91	764	63.37	575	0.42	273.4	52.78	0.0	67	11.60	1	0
0.50 to <0.75	125	526	61.62	449	0.73	236.2	52.72	0.0	81	18.09	2	1
0.75 to <2.50	208	445	62.15	485	1.61	278.6	52.17	0.0	156	32.13	4	2
0.75 to <1.75	113	285	62.08	289	1.27	162.5	52.16	0.0	78	27.11	2	1
1.75 to <2.5	96	160	62.28	196	2.12	116.1	52.17	0.0	77	39.54	2	1
2.50 to <10.00	166	203	63.81	296	5.37	166.5	53.68	0.0	226	76.43	9	6
2.50 to <5	110	139	63.99	199	4.05	119.6	52.69	0.0	125	62.65	4	3
5 to <10	56	64	63.44	97	8.06	46.9	55.71	0.0	102	104.74	4	3
10.00 to <100.00	58	38	65.78	83	21.59	39.7	55.09	0.0	132	158.11	10	6
10 to <20	28	27	66.28	45	14.03	21.5	56.01	0.0	65	143.36	4	2
20 to <30	14	8	65.23	19	22.44	9.0	54.48	0.0	32	169.48	2	1
30.00 to <100.00	17	3	63.31	19	38.72	9.3	53.51	0.0	35	181.97	4	2
100.00 (Default)	103	16	68.19	115	100.00	51.8	60.54	0.0	77	67.34	64	76
Sub-total	870	14,379	67.55	10,583	1.61	3,902.5	54.93	0.0	1,054	9.96	95	92

												Jun 30, 2022
in € m.	a	b	C	d	e	f	g	h	i	j	k	
(unless stated otherwise)		Off-balance-	Exposure		Exposure		Exposure	Exposure weighted	Risk weighted exposure	Density of risk weighted		Value
	On-balance	sheet	weighted	Exposure post	weighted	Number of	weighted	average	amount after	exposure		adjustments
Exposure class/	sheet	exposures pre-	average CCF	CCF and post	average PD	obligors	average LGD	maturity	supporting	amount	Expected	and
PD scale Other retail SMEs	exposures	CCF	(in %)	CRM	(%)	(in 1,000s)	(%)	(in years)	factors	(in %)	Loss amount	Provisions
0.00 to <0.15	660	2,535	22.54	1,376	0.11	38.0	44.45	2.9	135	9.81	1	0
0.00 to <0.10	356	2,073	16.30	819	0.09	23.7	45.27	2.9	73	8.88	0	0
0.00 to <0.10 0.10 to <0.15	304	462	50.53	557	0.09	14.4	43.26	3.4	62	11.17	0	0
0.10 to <0.15 0.15 to <0.25	484	797	34.71	786	0.14	23.6	44.45	4.2	131	16.71		0
	574	946	27.17	744	0.23	26.1	45.81	3.3	179	24.08	1	1
0.25 to <0.50												
0.50 to <0.75	539	560	38.04	617	0.65	16.5	49.60	5.1	210	33.98	7	1
0.75 to <2.50	1,030	624	43.83	944	1.40	17.0	55.61	3.7	474	50.25		3
0.75 to <1.75	527	357	41.93	509	1.08	10.1	54.15	3.8	231	45.35	3	1
1.75 to <2.5	503	267	46.36	435	1.77	6.9	57.31	3.6	243	55.98	4	2
2.50 to <10.00	814	269	38.69	527	4.42	11.6	60.90	2.6	356	67.65	13	
2.50 to <5	662	232	39.32	432	3.65	8.9	61.38	2.6	289	66.85	9	5
5 to <10	152	37	34.68	94	7.96	2.6	58.74	3.0	67	71.32	4	3
10.00 to <100.00	176	33	49.79	81	20.24	2.7	61.18	2.1	78	96.65	9	6
10 to <20	80	14	37.34	35	13.04	1.2	61.50	2.2	29	84.35	3	2
20 to <30	52	15	67.83	30	22.01	0.7	58.11	1.8	30	99.91	3	1
30.00 to <100.00	44	5	30.16	16	32.32	0.8	66.07	2.7	19	116.90	3	3
100.00 (Default)	285	20	24.24	238	100.00	3.3	59.67	1.8	102	43.05	142	200
Sub-total	4,562	5,783	29.68	5,312	5.66	138.8	49.79	3.5	1,666	31.37	176	218
Other setell see CME-												
Other retail non-SMEs	0.704			4.000		747.0	07.00	4.0	405	40.04		
0.00 to <0.15	2,781	3,306	32.55	4,689	0.10	747.0	37.98	4.3	485	10.34	2	2
0.00 to <0.10	1,781	2,787	28.60	3,240	0.08	555.5	35.71	2.8	259	8.00	1	1_
0.10 to <0.15	1,000	519	53.72	1,449	0.15	191.5	43.06	7.4	225	15.56	1	1
0.15 to <0.25	1,755	787	60.92	2,296	0.25	237.5	44.36	11.7	511	22.27	3	2
0.25 to <0.50	2,341	845	66.24	2,951	0.41	249.1	44.21	13.2	905	30.67	6	4
0.50 to <0.75	3,081	725	65.68	3,567	0.72	316.6	45.53	11.0	1,505	42.19	12	9
0.75 to <2.50	9,491	625	46.86	9,797	1.63	918.7	50.14	6.4	6,226	63.56	79	63
0.75 to <1.75	4,176	346	49.30	4,362	1.22	433.6	48.08	6.8	2,429	55.68	25	21
1.75 to <2.5	5,314	279	43.83	5,435	1.96	485.1	51.81	6.0	3,798	69.88	54	42
2.50 to <10.00	7,907	328	65.32	8,106	4.86	560.2	48.89	7.1	6,151	75.89	187	167
2.50 to <5	5,977	224	54.44	6,088	3.82	450.0	50.57	6.7	4,664	76.62	116	100
5 to <10	1,931	104	88.64	2,018	8.02	110.2	43.82	8.1	1,487	73.70	71	66
10.00 to <100.00	1,102	77	85.29	1,161	20.82	93.6	47.51	8.1	1,257	108.26	116	111
10 to <20	638	53	92.36	685	13.86	47.1	45.50	9.0	631	92.05	43	44
20 to <30	218	11	73.22	224	22.48	21.3	50.45	7.0	281	125.18	26	27
30.00 to <100.00	247	12	65.95	251	38.34	25.2	50.36	6.7	345	137.38	48	40
100.00 (Default)	1,941	43	49.25	1,953	100.00	135.7	60.39	3.2	378	19.36	1,203	1,204
Sub-total	30,399	6,735	47.29	34,519	8.10	3,258.5	47.32	7.6	17,419	50.46	1,608	1,561
All exposure classes												
Total	597,976	311,470	32.80	699,329	4.10	8,589.9	32.19	8.1	196,288	28.07	7,408	7,028

												Dec 31, 2021
in € m.	a	b	С	d	e	f	g	h	i	j_	k	I
(unless stated otherwise) Exposure class/ PD scale	On-balance sheet exposures	Off-balance- sheet exposures pre- CCF	Exposure weighted average CCF (in %)	Exposure post CCF and post CRM	Exposure weighted average PD (%)	Number of obligors (in 1,000s)	Exposure weighted average LGD (%)	Exposure weighted average maturity (in years)	Risk weighted exposure amount after supporting factors	Density of risk weighted exposure amount (in %)	Expected Loss amount	Value adjustments and Provisions
Central governments			(111,72)		(13)	(1,0000)	(,,,	() =		(,2)		
and central banks												
0.00 to <0.15	107,855	81	54.44	121,984	0.00	0.1	50.41	1.1	669	0.55	1	0
0.00 to <0.10	107,489	81	54.45	121,619	0.00	0.1	50.41	1.1	616	0.51	1	0
0.10 to <0.15	366	0	12.77	366	0.14	0.0	50.00	2.5	53	14.50	0	0
0.15 to <0.25	1,369	0	82.14	1,701	0.23	0.0	50.00	1.7	803	47.23	2	0
0.25 to <0.50	2,147	0	99.99	2,230	0.39	0.0	49.88	2.2	1,527	68.47	4	0
0.50 to <0.75	493	67	21.22	495	0.64	0.0	49.87	1.1	354	71.67	2	0
0.75 to <2.50	5,353	172	41.02	5,049	1.74	0.0	97.78	4.8	12,279	243.19	1	0
0.75 to <1.75	266	104	35.80	168	1.07	0.0	47.15	0.7	131	77.55	1	0
1.75 to <2.5	5,086	67	49.09	4,881	1.76	0.0	99.52	5.0	12,149	248.91	0	0
2.50 to <10.00	2,425	481	35.93	514	5.29	0.0	48.04	3.0	645	125.52	8	15
2.50 to <5	2,126	430	35.37	399	4.52	0.0	48.30	3.6	446	111.80	4	14
5 to <10	299	50	40.76	116	7.95	0.0	47.15	0.8	200	172.87	4	2
10.00 to <100.00	432	144	35.01	29	13.01	0.0	50.00	1.7	69	235.95	2	1
10 to <20	432	144	35.01	29	13.01	0.0	50.00	1.7	69	235.95	2	1
20 to <30	0	0	0	0	0.00	0	0.00	0.0	0	0.00	0	_
30.00 to <100.00	0	0	0	0	0.00	0	0.00	0.0	0	0.00	0	_
100.00 (Default)	46	108	96.27	62	100.00	0.0	21.28	0.3	15	24.16	2	4
Sub-total	120,119	1,052	43.32	132,063	0.15	0.2	52.18	1.3	16,361	12.39	23	21
Institutions												
0.00 to <0.15	8,316	4,856	44.86	12,852	0.05	0.9	51.60	1.2	1,461	11.37	2	1
0.00 to <0.10	8,089	4,102	44.93	12,240	0.05	0.8	52.61	1.2	1,333	10.89	2	1
0.10 to <0.15	227	754	44.47	612	0.15	0.1	31.41	1.2	127	20.82	0	0
0.15 to <0.25	701	153	42.44	921	0.24	0.1	48.32	2.2	506	54.92	1	0
0.25 to <0.50	451	491	57.85	656	0.43	0.1	35.32	0.5	331	50.50	1	0
0.50 to <0.75	1,090	260	55.59	1,177	0.69	0.1	38.47	1.0	802	68.14	3	1
0.75 to <2.50	838	220	74.28	899	1.26	0.1	16.08	2.7	364	40.56	2	1
0.75 to <1.75	739	168	73.91	774	1.16	0.0	15.98	3.0	311	40.17	2	0
1.75 to <2.5	100	52	75.47	125	1.89	0.0	16.64	0.8	54	42.96	0	0
2.50 to <10.00	1,552	216	56.11	1,461	3.35	0.0	11.32	2.2	589	40.33	7	3
2.50 to <5	1,517	167	63.68	1,457	3.34	0.0	11.27	2.2	585	40.14	7	2
5 to <10	35	49	30.28	4	8.65	0.0	25.32	1.5	4	102.49	0	0
10.00 to <100.00	37	143	37.75	84	13.85	0.0	19.03	2.7	86	102.47	2	1
10 to <20	37	143	37.75	84	13.85	0.0	19.02	2.7	86	102.46	2	1
20 to <30	0	0	0	0	20.00	0.0	99.99	1.0	0	525.16	0	0
30.00 to <100.00	0	0	0	0	0.00	0	0.00	0.0	0	0.00	0	
100.00 (Default)	1,754	0	0	1,754	100.00	0.0	1.12	4.9	242	13.77	1	1
Sub-total	14,740	6,339	47.49	19,804	9.32	1.2	40.94	1.7	4,381	22.12	21	7

in € m.												Dec 31, 2021
	а	b	С	d	е	f	g	h	i	j_	k	
(unless stated otherwise)			_		_		_	Exposure	Risk weighted	Density of risk		
	On-balance	Off-balance- sheet	Exposure weighted	Exposure post	Exposure weighted	Number of	Exposure weighted	weighted average	exposure amount after	weighted exposure		Value adjustments
Exposure class/	sheet	exposures pre-	average CCF	CCF and post	average PD	obligors	average LGD	maturity	supporting	amount	Expected	and
PD scale	exposures	CCF	(in %)	CRM	(%)	(in 1,000s)	(%)	(in years)	factors	(in %)	Loss amount	Provisions
Corporates												
0.00 to <0.15	85,039	113,635	31.29	122,564	0.08	20.1	32.88	2.1	21,473	17.52	33	15
0.00 to <0.10	65,211	85,494	31.87	94,884	0.06	15.6	32.84	2.1	14,628	15.42	19	9
0.10 to <0.15	19,828	28,141	29.52	27,680	0.15	4.6	33.02	2.1	6,845	24.73	14	7
0.15 to <0.25	20,854	17,514	31.28	25,219	0.24	5.2	31.01	2.2	7,657	30.36	18	7
0.25 to <0.50	19,727	14,667	28.56	22,649	0.40	5.0	27.98	2.3	8,448	37.30	26	11
0.50 to <0.75	16,922	9,984	30.34	18,568	0.67	4.4	25.69	2.3	7,888	42.48	32	17
0.75 to <2.50	33,696	18,595	34.02	35,266	1.49	6.1	27.38	2.4	19,852	56.29	133	71
0.75 to <1.75	14,333	9,770	33.81	15,708	1.11	3.6	24.96	2.3	7,960	50.67	44	23
1.75 to <2.5	19,363	8,825	34.25	19,558	1.80	2.5	29.33	2.6	11,892	60.80	89	48
2.50 to <10.00	28,937	28,660	30.23	33,737	5.62	3.6	22.51	2.8	27,390	81.19	395	240
2.50 to <5	18,183	17,102	30.38	20,239	4.00	2.6	26.04	3.0	17,570	86.81	206	128
5 to <10	10,753	11,558	29.99	13,498	8.05	1.0	17.22	2.6	9,820	72.75	189	111
10.00 to <100.00	4,731	2,780	41.85	4,707	21.22	0.9	18.81	2.3	3,948	83.88	156	85
10 to <20	3,281	1,651	41.32	3,176	13.41	0.3	18.62	2.3	2,550	80.26	74	45
20 to <30	885	1,010	43.05	1,021	22.53	0.4	21.09	2.0	1,068	104.64	46	32
30.00 to <100.00	565	119	38.81	510	67.20	0.1	15.48	3.1	330	64.80	35	8
											4,122	
100 00 (Default)	14 283	2 493	30 29	14 135	98 72	36	30.52	/ 9	3 5/2	25.27	4 1//	4 / 00
100.00 (Default) Sub-total	14,283 224,188	2,493	30.29	14,135 276,845	98.72 6.41	3.6 48.9	30.52 29.50	2.9	3,572 100,227	25.27 36.20	4,915	4,260 4,706
Sub-total of which:												
of which: SMEs	224,188	208,327	31.28	276,845	6.41	48.9	29.50	2.3	100,227	36.20	4,915	4,706
of which: SMEs 0.00 to <0.15	224,188	208,327	31.28	276,845	0.10	48.9	29.50	2.3	100,227	36.20	4,915	4,706
of which: SMEs 0.00 to <0.15 0.00 to <0.10	224,188 4,575 3,034	208,327 3,475 2,356	31.28 33.47 31.32	276,845 5,596 3,736	0.10 0.07	6.0 4.3	30.80 29.03	2.3 3.1 3.1	100,227 791 384	36.20 14.13 10.29	4,915 2 1	4,706 2 1
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15	224,188 4,575 3,034 1,541	208,327 3,475 2,356 1,119	31.28 33.47 31.32 38.00	276,845 5,596 3,736 1,860	0.10 0.07 0.16	6.0 4.3 1.7	30.80 29.03 34.35	3.1 3.1 3.1	791 384 406	14.13 10.29 21.84	2 1 1	4,706 2 1 0
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25	224,188 4,575 3,034 1,541 2,225	3,475 2,356 1,119 1,182	31.28 33.47 31.32 38.00 34.77	276,845 5,596 3,736 1,860 2,367	0.10 0.07 0.16 0.25	6.0 4.3 1.7 2.1	30.80 29.03 34.35 34.36	3.1 3.1 3.1 3.0	791 384 406 634	14.13 10.29 21.84 26.77	2 1 1 2	2 1 0
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50	224,188 4,575 3,034 1,541 2,225 1,806	3,475 2,356 1,119 1,182 1,665	31.28 33.47 31.32 38.00 34.77 34.76	5,596 3,736 1,860 2,367 2,175	0.10 0.07 0.16 0.25 0.42	6.0 4.3 1.7 2.1 2.0	30.80 29.03 34.35 34.36 35.04	3.1 3.1 3.1 3.0 3.0	791 384 406 634 792	14.13 10.29 21.84 26.77 36.43	2 1 1 2 3	2 1 0 1 2
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75	224,188 4,575 3,034 1,541 2,225 1,806 2,123	3,475 2,356 1,119 1,182 1,665 872	33.47 31.32 38.00 34.77 34.76 36.16	5,596 3,736 1,860 2,367 2,175 2,089	0.10 0.07 0.16 0.25 0.42 0.70	6.0 4.3 1.7 2.1 2.0	30.80 29.03 34.35 34.36 35.04 36.90	3.1 3.1 3.1 3.0 3.0 2.9	791 384 406 634 792 1,030	14.13 10.29 21.84 26.77 36.43 49.32	2 1 1 2 3 5	2 1 0 1 2 2
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50	224,188 4,575 3,034 1,541 2,225 1,806 2,123 3,527	3,475 2,356 1,119 1,182 1,665 872 1,163	33.47 31.32 38.00 34.77 34.76 36.16 38.19	5,596 3,736 1,860 2,367 2,175 2,089 3,222	0.10 0.07 0.16 0.25 0.42 0.70 1.62	6.0 4.3 1.7 2.1 2.0	30.80 29.03 34.35 34.36 35.04 36.90 31.74	3.1 3.1 3.1 3.0 3.0 2.9 3.2	791 384 406 634 792 1,030 1,820	14.13 10.29 21.84 26.77 36.43 49.32 56.50	2 1 1 2 3 5 16	2 1 0 1 2 2 13
of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75	224,188 4,575 3,034 1,541 2,225 1,806 2,123 3,527 1,361	3,475 2,356 1,119 1,182 1,665 872 1,163 528	31.28 33.47 31.32 38.00 34.77 34.76 36.16 38.19 38.62	5,596 3,736 1,860 2,367 2,175 2,089 3,222 1,220	0.10 0.07 0.16 0.25 0.42 0.70 1.62	6.0 4.3 1.7 2.1 2.0 1.7 2.4	30.80 29.03 34.35 34.36 35.04 36.90 31.74 36.12	3.1 3.1 3.1 3.0 3.0 2.9 3.2 2.4	791 384 406 634 792 1,030 1,820 649	14.13 10.29 21.84 26.77 36.43 49.32 56.50 53.19	2 1 1 2 3 5 16 5	2 1 0 1 2 2 13
of which: SMEs 0.00 to <0.15 0.00 to <0.15 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <2.5	224,188 4,575 3,034 1,541 2,225 1,806 2,123 3,527 1,361 2,167	3,475 2,356 1,119 1,182 1,665 872 1,163 528 634	31.28 33.47 31.32 38.00 34.77 34.76 36.16 38.19 38.62 37.84	5,596 3,736 1,860 2,367 2,175 2,089 3,222 1,220 2,002	0.10 0.07 0.16 0.25 0.42 0.70 1.62 1.20	6.0 4.3 1.7 2.1 2.0 1.7 2.4 1.4	30.80 29.03 34.35 34.36 35.04 36.90 31.74 36.12 29.07	3.1 3.1 3.1 3.0 3.0 2.9 3.2 2.4 3.7	791 384 406 634 792 1,030 1,820 649 1,171	14.13 10.29 21.84 26.77 36.43 49.32 56.50 53.19 58.52	2 1 1 2 3 5 16 5	2 1 0 1 2 2 13 4
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00	4,575 3,034 1,541 2,225 1,806 2,123 3,527 1,361 2,167 1,772	3,475 2,356 1,119 1,182 1,665 872 1,163 528 634 754	33.47 31.32 38.00 34.77 34.76 36.16 38.19 38.62 37.84 34.97	5,596 3,736 1,860 2,367 2,175 2,089 3,222 1,220 2,002 1,605	0.10 0.07 0.16 0.25 0.42 0.70 1.62 1.20 1.87 5.38	6.0 4.3 1.7 2.1 2.0 1.7 2.4 1.4 1.0	30.80 29.03 34.35 34.36 35.04 36.90 31.74 36.12 29.07 33.60	3.1 3.1 3.1 3.0 3.0 2.9 3.2 2.4 3.7 2.6	791 384 406 634 792 1,030 1,820 649 1,171 1,306	14.13 10.29 21.84 26.77 36.43 49.32 56.50 53.19 58.52 81.35	2 1 1 2 3 5 16 5 11 28	2 1 0 1 2 2 13 4 9
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5	224,188 4,575 3,034 1,541 2,225 1,806 2,123 3,527 1,361 2,167 1,772 1,205	3,475 2,356 1,119 1,182 1,665 872 1,163 528 634 754 539	33.47 31.32 38.00 34.77 34.76 36.16 38.19 38.62 37.84 34.97 30.75	5,596 3,736 1,860 2,367 2,175 2,089 3,222 1,220 2,002 1,605 1,030	0.10 0.07 0.16 0.25 0.42 0.70 1.62 1.20 1.87 5.38 3.75	6.0 4.3 1.7 2.1 2.0 1.7 2.4 1.4 1.0	30.80 29.03 34.35 34.36 35.04 36.90 31.74 36.12 29.07 33.60 35.53	3.1 3.1 3.1 3.0 3.0 2.9 3.2 2.4 3.7 2.6 2.9	791 384 406 634 792 1,030 1,820 649 1,171 1,306 789	14.13 10.29 21.84 26.77 36.43 49.32 56.50 53.19 58.52 81.35 76.62	2 1 1 2 3 5 16 5 11 28	2 1 0 1 2 2 13 4 9
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10	224,188 4,575 3,034 1,541 2,225 1,806 2,123 3,527 1,361 2,167 1,772 1,205 566	3,475 2,356 1,119 1,182 1,665 872 1,163 528 634 754 539 215	33.47 31.32 38.00 34.77 34.76 36.16 38.19 38.62 37.84 34.97 30.75 45.56	5,596 3,736 1,860 2,367 2,175 2,089 3,222 1,220 2,002 1,605 1,030 575	0.10 0.07 0.16 0.25 0.42 0.70 1.62 1.20 1.87 5.38 3.75 8.30	6.0 4.3 1.7 2.1 2.0 1.7 2.4 1.4 1.0 1.1 0.9	30.80 29.03 34.35 34.36 35.04 36.90 31.74 36.12 29.07 33.60 35.53 30.13	3.1 3.1 3.1 3.0 3.0 2.9 3.2 2.4 3.7 2.6 2.9 2.0	791 384 406 634 792 1,030 1,820 649 1,171 1,306 789 516	14.13 10.29 21.84 26.77 36.43 49.32 56.50 53.19 58.52 81.35 76.62 89.83	2 1 1 2 3 5 16 5 11 28 13	2 1 0 1 2 2 13 4 9 18 11
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <10.00 10.00 to <100.00	224,188 4,575 3,034 1,541 2,225 1,806 2,123 3,527 1,361 2,167 1,772 1,205 566 509	3,475 2,356 1,119 1,182 1,665 872 1,163 528 634 754 539 215	33.47 31.32 38.00 34.77 34.76 36.16 38.19 38.62 37.84 34.97 30.75 45.56 34.61	276,845 5,596 3,736 1,860 2,367 2,175 2,089 3,222 1,220 2,002 1,605 1,030 575 405	0.10 0.07 0.16 0.25 0.42 0.70 1.62 1.20 1.87 5.38 3.75 8.30 19.41	6.0 4.3 1.7 2.1 2.0 1.7 2.4 1.4 1.0 1.1 0.9 0.3	30.80 29.03 34.35 34.36 35.04 36.90 31.74 36.12 29.07 33.60 35.53 30.13	3.1 3.1 3.1 3.0 3.0 2.9 3.2 2.4 3.7 2.6 2.9 2.0	791 384 406 634 792 1,030 1,820 649 1,171 1,306 789 516	14.13 10.29 21.84 26.77 36.43 49.32 56.50 53.19 58.52 81.35 76.62 89.83 153.28	2 1 1 2 3 5 16 5 11 28 13 15 33	2 1 0 1 2 2 13 4 9 18 11 7
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <10.00 2.50 to <5 5 to <10	224,188 4,575 3,034 1,541 2,225 1,806 2,123 3,527 1,361 2,167 1,772 1,205 566 509 250	3,475 2,356 1,119 1,182 1,665 872 1,163 528 634 754 539 215 114 76	31.28 33.47 31.32 38.00 34.77 34.76 36.16 38.19 38.62 37.84 34.97 30.75 45.56 34.61 31.11	276,845 5,596 3,736 1,860 2,367 2,175 2,089 3,222 1,220 2,002 1,605 1,030 575 405 233	0.10 0.07 0.16 0.25 0.42 0.70 1.62 1.20 1.87 5.38 3.75 8.30 19.41 13.81	6.0 4.3 1.7 2.1 2.0 1.7 2.4 1.4 1.0 1.1 0.9 0.3 0.4	30.80 29.03 34.35 34.36 35.04 36.90 31.74 36.12 29.07 33.60 35.53 30.13 42.01 39.61	2.3 3.1 3.1 3.0 3.0 2.9 3.2 2.4 3.7 2.6 2.9 2.0 1.6	791 384 406 634 792 1,030 1,820 649 1,171 1,306 789 516 620 306	36.20 14.13 10.29 21.84 26.77 36.43 49.32 56.50 53.19 58.52 81.35 76.62 89.83 153.28 131.36	2 1 1 2 3 5 16 5 11 28 13 15 33 15	4,706 2 1 0 1 2 2 13 4 9 18 11 7 21 6
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <10.00 10.00 to <100.00	224,188 4,575 3,034 1,541 2,225 1,806 2,123 3,527 1,361 2,167 1,772 1,205 566 509 250 166	3,475 2,356 1,119 1,182 1,665 872 1,163 528 634 754 539 215 114 76	31.28 33.47 31.32 38.00 34.77 34.76 36.16 38.19 38.62 37.84 34.97 30.75 45.56 34.61 31.11 36.55	276,845 5,596 3,736 1,860 2,367 2,175 2,089 3,222 1,220 2,002 1,605 1,030 575 405 233 89	0.10 0.07 0.16 0.25 0.42 0.70 1.62 1.20 1.87 5.38 3.75 8.30 19.41 13.81 21.74	6.0 4.3 1.7 2.1 2.0 1.7 2.4 1.4 1.0 9 0.3 0.4 0.1	30.80 29.03 34.35 34.36 35.04 36.90 31.74 36.12 29.07 33.60 35.53 30.13	2.3 3.1 3.1 3.0 3.0 2.9 3.2 2.4 3.7 2.6 2.9 2.0 1.6 1.4	791 384 406 634 792 1,030 1,820 649 1,171 1,306 789 516 620 306 173	14.13 10.29 21.84 26.77 36.43 49.32 56.50 53.19 58.52 81.35 76.62 89.83 153.28	2 1 1 2 3 5 16 5 11 28 13 15 33 15	4,706 2 1 0 1 2 2 13 4 9 18 11 7 21 6 13
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10 10.00 to <100.00 10 to <20	224,188 4,575 3,034 1,541 2,225 1,806 2,123 3,527 1,361 2,167 1,772 1,205 566 509 250	3,475 2,356 1,119 1,182 1,665 872 1,163 528 634 754 539 215 114 76	31.28 33.47 31.32 38.00 34.77 34.76 36.16 38.19 38.62 37.84 34.97 30.75 45.56 34.61 31.11	276,845 5,596 3,736 1,860 2,367 2,175 2,089 3,222 1,220 2,002 1,605 1,030 575 405 233	0.10 0.07 0.16 0.25 0.42 0.70 1.62 1.20 1.87 5.38 3.75 8.30 19.41 13.81	6.0 4.3 1.7 2.1 2.0 1.7 2.4 1.4 1.0 1.1 0.9 0.3 0.4	30.80 29.03 34.35 34.36 35.04 36.90 31.74 36.12 29.07 33.60 35.53 30.13 42.01 39.61	2.3 3.1 3.1 3.0 3.0 2.9 3.2 2.4 3.7 2.6 2.9 2.0 1.6	791 384 406 634 792 1,030 1,820 649 1,171 1,306 789 516 620 306	36.20 14.13 10.29 21.84 26.77 36.43 49.32 56.50 53.19 58.52 81.35 76.62 89.83 153.28 131.36	2 1 1 2 3 5 16 5 11 28 13 15 33 15	4,706 2 1 0 1 2 2 13 4 9 18 11 7 21 6
Sub-total of which: SMEs 0.00 to <0.15 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <2.5 2.50 to <10.00 2.50 to <10.00 10.00 to <100.00 10 to <20 20 to <30	224,188 4,575 3,034 1,541 2,225 1,806 2,123 3,527 1,361 2,167 1,772 1,205 566 509 250 166	3,475 2,356 1,119 1,182 1,665 872 1,163 528 634 754 539 215 114 76	31.28 33.47 31.32 38.00 34.77 34.76 36.16 38.19 38.62 37.84 34.97 30.75 45.56 34.61 31.11 36.55	276,845 5,596 3,736 1,860 2,367 2,175 2,089 3,222 1,220 2,002 1,605 1,030 575 405 233 89	0.10 0.07 0.16 0.25 0.42 0.70 1.62 1.20 1.87 5.38 3.75 8.30 19.41 13.81 21.74	6.0 4.3 1.7 2.1 2.0 1.7 2.4 1.4 1.0 9 0.3 0.4 0.1	30.80 29.03 34.35 34.36 35.04 36.90 31.74 36.12 29.07 33.60 35.53 30.13 42.01 39.61 52.62	2.3 3.1 3.1 3.0 3.0 2.9 3.2 2.4 3.7 2.6 2.9 2.0 1.6 1.4	791 384 406 634 792 1,030 1,820 649 1,171 1,306 789 516 620 306 173	36.20 14.13 10.29 21.84 26.77 36.43 49.32 56.50 53.19 58.52 81.35 76.62 89.83 153.28 131.36 195.05	2 1 1 2 3 5 16 5 11 28 13 15 33 15	4,706 2 1 0 1 2 2 13 4 9 18 11 7 21 6 13

in € m.	a	b	C	d	e	f	g	h	i	i	k	Dec 31, 2021
(unless stated otherwise)	a			u			<u> </u>	Exposure	Risk weighted	Density of risk	K	
unicoo stated etherwise)		Off-balance-	Exposure		Exposure		Exposure	weighted	exposure	weighted		Value
_ , ,	On-balance	sheet	weighted	Exposure post	weighted	Number of	weighted	average	amount after	exposure	For extend	adjustments
Exposure class/ PD scale	sheet exposures	exposures pre- CCF	average CCF (in %)	CCF and post CRM	average PD (%)	obligors (in 1,000s)	average LGD (%)	maturity (in years)	supporting factors	amount (in %)	Expected Loss amount	and Provisions
Specialized Lending			(11)		(**)	(, , , , , , , , , , , , , , , , , , ,	(1.7)	() /				
0.00 to <0.15	8,745	268	48.54	8,743	0.10	0.2	6.50	3.0	379	4.34	0	2
0.00 to <0.10	5,991	236	44.52	6,010	0.08	0.1	7.18	2.7	222	3.70	0	0
0.10 to <0.15	2,754	32	77.93	2,733	0.14	0.1	5.00	3.6	157	5.73	0	2
0.15 to <0.25	3,099	103	17.97	3,028	0.23	0.1	7.59	2.8	253	8.34	1	0
0.25 to <0.50	3,353	122	36.04	3,321	0.39	0.1	10.08	3.0	530	15.95	1	1
0.50 to <0.75	3,648	120	66.78	3,747	0.66	0.1	10.91	2.8	822	21.95	3	3
0.75 to <2.50	6,291	823	54.22	6,236	1.42	0.3	13.37	2.8	1,757	28.18	10	7
0.75 to <1.75	3,273	399	56.56	3,290	1.10	0.2	17.19	2.5	990	30.07	6	3
1.75 to <2.5	3,017	424	51.74	2,946	1.79	0.1	9.11	3.1	768	26.06	5	4
2.50 to <10.00	11,808	1,395	23.92	11,814	6.35	0.3	7.68	2.5	3,267	27.66	55	34
2.50 to <5	5,146	560	27.15	4,986	4.17	0.2	8.56	2.4	1,328	26.64	17	12
5 to <10	6,662	835	21.75	6,828	7.94	0.2	7.03	2.5	1,939	28.40	38	21
10.00 to <100.00	1,485	321	35.42	1,589	16.25	0.1	8.91	2.8	686	43.18	23	10
10 to <20	1,174	249	33.25	1,247	13.00	0.0	8.86	2.9	526	42.21	14	6
20 to <30	252	72	42.89	283	22.01	0.0	10.15	2.2	157	55.55	6	4
30.00 to <100.00	59	0	0	59	57.63	0.0	3.92	4.1	2	4.16	2	0
100.00 (Default)	2,989	80	27.87	2,933	100.00	0.2	31.70	3.1	535	18.25	889	812
Sub-total	41,418	3,233	36.78	41,411	9.86	1.3	10.52	2.8	8,230	19.87	983	869
Other												
0.00 to <0.15	71,719	109,892	31.17	108,225	0.08	14.0	35.12	2.0	20,303	18.76	31	11
0.00 to <0.10	56,186	82,902	31.85	85,138	0.06	11.2	34.82	2.0	14,021	16.47	18	7
0.10 to <0.15	15,533	26,990	29.11	23,087	0.15	2.8	36.23	1.9	6,282	27.21	13	4
0.15 to <0.25	15,530	16,228	31.11	19,824	0.24	3.0	34.19	2.0	6,770	34.15	15	6
0.25 to <0.50	14,568	12,880	27.69	17,153	0.41	2.9	30.55	2.1	7,126	41.54	22	9
0.50 to <0.75	11,151	8,991	29.29	12,732	0.67	2.6	28.20	2.1	6,035	47.40	24	12
0.75 to <2.50	23,878	16,609	32.73	25,808	1.50	3.4	30.22	2.3	16,274	63.06	107	52
0.75 to <1.75	9,699	8,843	32.49	11,198	1.10	2.0	26.02	2.3	6,321	56.45	34	16
1.75 to <2.5	14,179	7,767	33.00	14,611	1.80	1.4	33.44	2.3	9,953	68.12	73	35
2.50 to <10.00	15,357	26,512	30.42	20,318	5.22	2.1	30.26	3.0	22,817	112.30	312	188
2.50 to <5	11,832	16,003	30.48	14,222	3.96	1.5	31.48	3.2	15,452	108.65	176	105
5 to <10	3,524	10,509	30.33	6,096	8.16	0.6	27.43	2.7	7,364	120.81	136	83
10.00 to <100.00	2,736	2,345	43.08	2,714	24.39	0.5	21.15	2.1	2,642	97.35	100	54
10 to <20	1,857	1,326	43.43	1,696	13.66	0.2	22.90	1.9	1,717	101.22	47	33
20 to <30	467	907	43.29	649	22.87	0.2	21.57	2.1	738	113.70	30	14
30.00 to <100.00	412	112	37.23	368	76.52	0.1	12.37	2.8	187	50.69	23	6
100.00 (Default)	9,608	2,278	29.92	9,519	98.09	2.4	24.34	3.1	2,597	27.28	2,184	2,321
Sub-total	164,548	195,735	31.01	216,293	5.43	30.9	32.57	2.2	84,564	39.10	2,795	2,652

in 6 m												Dec 31, 2021
in € m.	a	b	С	d	e	f	g	h	i	j	k	
(unless stated otherwise)		0#	F		F		E	Exposure	Risk weighted	Density of risk		\/-l
	On-balance	Off-balance- sheet	Exposure weighted	Exposure post	Exposure weighted	Number of	Exposure weighted	weighted average	exposure amount after	weighted exposure		Value adjustments
Exposure class/	sheet	exposures pre-	average CCF	CCF and post	average PD	obligors	average LGD	maturity	supporting	amount	Expected	and
PD scale	exposures	CCF	(in %)	ČRM	(%)	(in 1,000s)	(%)	(in years)	factors	(in %)	Loss amount	Provisions
Retail									-			
0.00 to <0.15	31,239	18,057	54.95	41,528	0.11	3,515.7	25.17	14.1	2,023	4.87	12	9
0.00 to <0.10	15,911	14,868	53.49	24,129	0.08	2,776.9	28.36	11.5	919	3.81	6	4
0.10 to <0.15	15,327	3,189	61.76	17,399	0.15	738.8	20.75	17.8	1,104	6.35	6	4
0.15 to <0.25	27,307	4,037	60.12	29,793	0.25	829.9	20.12	21.2	2,776	9.32	15	13
0.25 to <0.50	38,853	4,711	64.09	41,763	0.41	796.8	20.64	23.5	5,996	14.36	36	29
0.50 to <0.75	44,078	4,654	74.13	47,291	0.73	837.8	22.40	23.1	10,931	23.12	78	60
0.75 to <2.50	46,038	4,039	68.87	48,289	0.69	1,445.1	27.89	18.7	20,482	42.41	214	135
0.75 to <1.75	29,152	2,711	71.91	30,829	1.27	758.7	25.74	20.0	11,229	36.42	100	63
1.75 to <2.5	16,886	1,328	62.67	17,460	2.06	686.4	31.67	16.3	9,253	52.99	113	71
2.50 to <10.00	18,333	1,137	59.14	18,608	4.95	827.9	33.13	16.0	12,812	68.85	301	254
2.50 to <5	13,748	887	55.89	13,924	3.92	645.6	33.80	15.1	9,052	65.01	184	151
5 to <10	4,585	250	70.66	4,684	8.02	182.2	31.13	18.6	3,760	80.28	117	103
10.00 to <100.00	3,499	166	73.32	3,499	21.26	196.9	30.54	18.1	3,695	105.60	219	171
10 to <20	2,023	94	73.78	2,027	13.98	81.5	29.85	18.1	2,105	103.80	85	69
20 to <30	698	43	75.01	707	22.66	78.7	32.91	16.4	869	122.95	52	40
30.00 to <100.00	778	29	69.28	765	39.25	36.8	30.19	19.5	721	94.32	82	62
100.00 (Default)	3,870	107	67.61	3,886	100.00	211.2	46.09	9.4	1,177	30.29	1,789	1,871
Sub-total	213,217	36,908	60.87	234,657	2.78	8,661.4	24.78	19.6	59,891	25.52	2,664	2,543
<u> </u>									'			
of which:	_											
of which: Secured by real estate	_											
	_											
Secured by real estate	1,402	190	58.07	1,505	0.12	8.0	13.65	14.4	49	3.27	0	0
Secured by real estate property SMEs	1,402	190 91	58.07 57.85	1,505 551	0.12	8.0 3.2	13.65 12.88	14.4 13.9	49	3.27	0	0
Secured by real estate property SMEs 0.00 to <0.15												
Secured by real estate property SMEs 0.00 to <0.15 0.00 to <0.10	500	91	57.85	551	0.08	3.2	12.88	13.9	13	2.37	0	0
Secured by real estate property SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15	500 902	91 99	57.85 58.28	551 954	0.08 0.14	3.2 4.8	12.88 14.09	13.9 14.7	13 36	2.37 3.79	0	0
Secured by real estate property SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25	500 902 1,647	91 99 117	57.85 58.28 59.33	551 954 1,711	0.08 0.14 0.23	3.2 4.8 7.4	12.88 14.09 14.55	13.9 14.7 15.7	13 36 96	2.37 3.79 5.63	0 0 1	0 0 0
Secured by real estate property SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50	500 902 1,647 1,696	91 99 117 106	57.85 58.28 59.33 55.70	551 954 1,711 1,744	0.08 0.14 0.23 0.40	3.2 4.8 7.4 7.5	12.88 14.09 14.55 14.65	13.9 14.7 15.7 15.7	13 36 96 146	2.37 3.79 5.63 8.35	0 0 1 1	0 0 0
Secured by real estate property SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75	500 902 1,647 1,696 1,391	91 99 117 106 84	57.85 58.28 59.33 55.70 57.29	551 954 1,711 1,744 1,427	0.08 0.14 0.23 0.40 0.66	3.2 4.8 7.4 7.5 6.3	12.88 14.09 14.55 14.65 14.43	13.9 14.7 15.7 15.7 15.5	13 36 96 146 171	2.37 3.79 5.63 8.35 11.95	0 0 1 1	0 0 0 0
Secured by real estate property SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50	500 902 1,647 1,696 1,391 1,681	91 99 117 106 84 84	57.85 58.28 59.33 55.70 57.29 56.58	551 954 1,711 1,744 1,427 1,690	0.08 0.14 0.23 0.40 0.66 1.41	3.2 4.8 7.4 7.5 6.3 7.0	12.88 14.09 14.55 14.65 14.43 14.92	13.9 14.7 15.7 15.7 15.5 15.6	13 36 96 146 171 351	2.37 3.79 5.63 8.35 11.95 20.76	0 0 1 1 1 4	0 0 0 0 1 3
Secured by real estate property SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <1.75	500 902 1,647 1,696 1,391 1,681 982	91 99 117 106 84 84 50	57.85 58.28 59.33 55.70 57.29 56.58 58.67	551 954 1,711 1,744 1,427 1,690 997	0.08 0.14 0.23 0.40 0.66 1.41	3.2 4.8 7.4 7.5 6.3 7.0 4.3	12.88 14.09 14.55 14.65 14.43 14.92	13.9 14.7 15.7 15.7 15.5 15.6 15.7	13 36 96 146 171 351 176	2.37 3.79 5.63 8.35 11.95 20.76 17.70	0 0 1 1 1 4 2	0 0 0 0 1 3
Secured by real estate property SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <1.75 1.75 to <2.5	500 902 1,647 1,696 1,391 1,681 982 700	91 99 117 106 84 84 50 34	57.85 58.28 59.33 55.70 57.29 56.58 58.67 53.46	551 954 1,711 1,744 1,427 1,690 997 693	0.08 0.14 0.23 0.40 0.66 1.41 1.11	3.2 4.8 7.4 7.5 6.3 7.0 4.3 2.7	12.88 14.09 14.55 14.65 14.43 14.92 14.81 15.07	13.9 14.7 15.7 15.7 15.5 15.6 15.7 15.5	13 36 96 146 171 351 176	2.37 3.79 5.63 8.35 11.95 20.76 17.70 25.15	0 0 1 1 1 4 2	0 0 0 0 1 3 1 2
Secured by real estate property SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <2.5 2.50 to <10.00	500 902 1,647 1,696 1,391 1,681 982 700 648	91 99 117 106 84 84 50 34	57.85 58.28 59.33 55.70 57.29 56.58 58.67 53.46 50.57	551 954 1,711 1,744 1,427 1,690 997 693 649	0.08 0.14 0.23 0.40 0.66 1.41 1.11 1.85 4.35	3.2 4.8 7.4 7.5 6.3 7.0 4.3 2.7 2.6	12.88 14.09 14.55 14.65 14.43 14.92 14.81 15.07	13.9 14.7 15.7 15.7 15.5 15.6 15.7 15.5 15.5	13 36 96 146 171 351 176 174 255	2.37 3.79 5.63 8.35 11.95 20.76 17.70 25.15 39.27	0 0 1 1 1 4 2 2	0 0 0 0 1 3 1 2
Secured by real estate property SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10	500 902 1,647 1,696 1,391 1,681 982 700 648 551	91 99 117 106 84 84 50 34 27	57.85 58.28 59.33 55.70 57.29 56.58 58.67 53.46 50.57 50.61 49.91	551 954 1,711 1,744 1,427 1,690 997 693 649 553	0.08 0.14 0.23 0.40 0.66 1.41 1.11 1.85 4.35 3.69 8.17	3.2 4.8 7.4 7.5 6.3 7.0 4.3 2.7 2.6 2.2	12.88 14.09 14.55 14.65 14.43 14.92 14.81 15.07 14.96 14.85	13.9 14.7 15.7 15.7 15.5 15.6 15.7 15.5 15.2 15.4	13 36 96 146 171 351 176 174 255 201	2.37 3.79 5.63 8.35 11.95 20.76 17.70 25.15 39.27 36.29 56.48	0 0 1 1 1 4 2 2 2 4 3	0 0 0 0 1 3 1 2 5 4
Secured by real estate property SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10 10.00 to <100.00	500 902 1,647 1,696 1,391 1,681 982 700 648 551 97	91 99 117 106 84 84 50 34 27 25 2	57.85 58.28 59.33 55.70 57.29 56.58 58.67 53.46 50.57 50.61 49.91	551 954 1,711 1,744 1,427 1,690 997 693 649 553 96 78	0.08 0.14 0.23 0.40 0.66 1.41 1.11 1.85 4.35 3.69 8.17 20.26	3.2 4.8 7.4 7.5 6.3 7.0 4.3 2.7 2.6 2.2 0.4	12.88 14.09 14.55 14.65 14.43 14.92 14.81 15.07 14.96 14.85 15.56	13.9 14.7 15.7 15.7 15.5 15.6 15.7 15.5 15.2 15.4 13.6	13 36 96 146 171 351 176 174 255 201 54	2.37 3.79 5.63 8.35 11.95 20.76 17.70 25.15 39.27 36.29 56.48 57.07	0 0 1 1 1 4 2 2 2 4 3	0 0 0 0 1 3 1 2 5 4
Secured by real estate property SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <2.5 2.50 to <1.00 2.50 to <5 5 to <10 10.00 to <100.00 10 to <20	500 902 1,647 1,696 1,391 1,681 982 700 648 551 97 106 69	91 99 117 106 84 84 50 34 27 25 2	57.85 58.28 59.33 55.70 57.29 56.58 58.67 53.46 50.57 50.61 49.91 48.86 49.75	551 954 1,711 1,744 1,427 1,690 997 693 649 553 96 78 43	0.08 0.14 0.23 0.40 0.66 1.41 1.11 1.85 4.35 3.69 8.17 20.26 13.58	3.2 4.8 7.4 7.5 6.3 7.0 4.3 2.7 2.6 2.2 0.4 0.4	12.88 14.09 14.55 14.65 14.43 14.92 14.81 15.07 14.96 14.85 15.56 12.01	13.9 14.7 15.7 15.7 15.5 15.6 15.7 15.5 15.2 15.4 13.6 13.3	13 36 96 146 171 351 176 174 255 201 54 45	2.37 3.79 5.63 8.35 11.95 20.76 17.70 25.15 39.27 36.29 56.48 57.07 52.31	0 0 1 1 1 4 2 2 2 4 3 1 1 2	0 0 0 0 1 3 1 2 5 4
Secured by real estate property SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10 10.00 to <100.00 10 to <20 20 to <30	500 902 1,647 1,696 1,391 1,681 982 700 648 551 97 106 69 18	91 99 117 106 84 84 50 34 27 25 2 1	57.85 58.28 59.33 55.70 57.29 56.58 58.67 53.46 50.57 50.61 49.91 48.86 49.75 60.87	551 954 1,711 1,744 1,427 1,690 997 693 649 553 96 78 43	0.08 0.14 0.23 0.40 0.66 1.41 1.11 1.85 4.35 3.69 8.17 20.26 13.58 22.95	3.2 4.8 7.4 7.5 6.3 7.0 4.3 2.7 2.6 2.2 0.4 0.4 0.2	12.88 14.09 14.55 14.65 14.43 14.92 14.81 15.07 14.96 14.85 15.56 12.01 11.53	13.9 14.7 15.7 15.7 15.5 15.6 15.7 15.5 15.2 15.4 13.6 13.3	13 36 96 146 171 351 176 174 255 201 54 45 22	2.37 3.79 5.63 8.35 11.95 20.76 17.70 25.15 39.27 36.29 56.48 57.07 52.31 64.26	0 0 1 1 1 4 2 2 2 4 3 1	0 0 0 0 1 3 1 2 5 4 1 2
Secured by real estate property SMEs 0.00 to <0.15 0.00 to <0.10 0.10 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10 10.00 to <100.00 10 to <20	500 902 1,647 1,696 1,391 1,681 982 700 648 551 97 106 69	91 99 117 106 84 84 50 34 27 25 2	57.85 58.28 59.33 55.70 57.29 56.58 58.67 53.46 50.57 50.61 49.91 48.86 49.75	551 954 1,711 1,744 1,427 1,690 997 693 649 553 96 78 43	0.08 0.14 0.23 0.40 0.66 1.41 1.11 1.85 4.35 3.69 8.17 20.26 13.58	3.2 4.8 7.4 7.5 6.3 7.0 4.3 2.7 2.6 2.2 0.4 0.4	12.88 14.09 14.55 14.65 14.43 14.92 14.81 15.07 14.96 14.85 15.56 12.01	13.9 14.7 15.7 15.7 15.5 15.6 15.7 15.5 15.2 15.4 13.6 13.3	13 36 96 146 171 351 176 174 255 201 54 45	2.37 3.79 5.63 8.35 11.95 20.76 17.70 25.15 39.27 36.29 56.48 57.07 52.31	0 0 1 1 1 4 2 2 2 4 3 1 1 2	0 0 0 0 1 3 1 2 5 4

												Dec 31, 2021
in € m.	а	b	С	d	е	f	g	h	i	j	k	1
(unless stated otherwise) Exposure class/ PD scale	On-balance sheet exposures	Off-balance- sheet exposures pre- CCF	Exposure weighted average CCF (in %)	Exposure post CCF and post CRM	Exposure weighted average PD (%)	Number of obligors (in 1,000s)	Exposure weighted average LGD (%)	Exposure weighted average maturity (in years)	Risk weighted exposure amount after supporting factors	Density of risk weighted exposure amount (in %)	Expected Loss amount	Value adjustments and Provisions
Secured by real estate												
property non-SMEs	00.500	700			0.40	055.0		00.4	4 474	4.04		
0.00 to <0.15	26,506	792	60.06	26,980	0.12	255.0	14.46	20.1	1,171	4.34	5	6
0.00 to <0.10	13,341	347	58.66	13,544	0.09	146.0	13.51	19.1	430	3.17	2	3
0.10 to <0.15	13,164	445	61.15	13,436	0.15	108.9	15.41	21.1	741	5.52	3	3
0.15 to <0.25	23,349	1,027	72.80	24,089	0.25	174.9	16.25	24.0	1,981	8.22	10	10
0.25 to <0.50	34,216	1,901	82.45	35,768	0.41	229.2	17.94	25.5	4,705	13.15	27	24
0.50 to <0.75	38,987	2,616	88.95	41,299	0.73	252.9	19.93	24.9	8,967	21.71	61	49
0.75 to <2.50	33,652	2,071	88.01	35,443	0.35	207.9	21.28	22.9	13,235	37.34	117	68
0.75 to <1.75	23,364	1,519	89.17	24,703	1.28	144.2	21.23	23.1	8,267	33.47	68	39
1.75 to <2.5	10,288	552	84.82	10,740	2.10	63.7	21.38	22.3	4,967	46.25	49	29
2.50 to <10.00	8,891	315	82.11	9,119	4.98	61.2	18.58	25.7	5,883	64.52	86	84
2.50 to <5	6,545	246	79.47	6,714	3.92	45.4	18.31	24.3	3,815	56.81	49	52
5 to <10	2,346	70	91.41	2,405	7.95	15.8	19.31	29.5	2,069	86.03	37	32
10.00 to <100.00	2,086	52	92.95	2,118	21.56	14.0	19.94	25.7	2,400	113.31	92	55
10 to <20	1,205	36	93.06	1,235	13.95	8.0	20.15	25.5	1,367	110.71	35	22
20 to <30	397	6	92.46	399	22.72	2.8	19.31	24.9	474	118.89	17	11
30.00 to <100.00	483	9	92.88	484	40.02	3.3	19.92	27.0	558	115.34	40	22
100.00 (Default)	1,331	27	97.25	1,351	100.00	12.0	21.80	21.3	638	47.20	297	281
Sub-total	169,017	8,800	82.65	176,167	1.66	1,207.1	18.40	23.8	38,979	22.13	694	578
Qualifying Revolving												
0.00 to <0.15	50	11,189	68.47	7,711	0.08	2,492.9	55.57	0.0	251	3.25	4	1
0.00 to <0.10	22	9,575	68.53			,						
0.10 to <0.15				6.583	0.07	2.075.2	55.85	0.0	188	2.86	3	0
	28	1.613		6,583	0.07	2,075.2 417.7	55.85 53.96	0.0	188	2.86 5.53	3	0
0.15 to <0.25		1,613 1.331	68.16	1,128	0.07 0.16 0.25	417.7	53.96	0.0	188 62 74	2.86 5.53 7.89		0
	58	1,331	68.16 66.18	1,128	0.16 0.25	417.7 382.2	53.96 53.59	0.0	62 74	5.53 7.89	1	
0.25 to <0.50	58 90	1,331 804	68.16 66.18 63.44	1,128 939 600	0.16 0.25 0.42	417.7 382.2 281.6	53.96 53.59 52.69	0.0 0.0 0.0	62 74 70	5.53 7.89 11.59	1 1	0
0.25 to <0.50 0.50 to <0.75	58 90 116	1,331 804 550	68.16 66.18 63.44 61.63	1,128 939 600 455	0.16 0.25 0.42 0.74	417.7 382.2 281.6 241.3	53.96 53.59 52.69 52.71	0.0	62 74 70 83	5.53 7.89 11.59 18.14	1 1 1	0 0 1 1
0.25 to <0.50 0.50 to <0.75 0.75 to <2.50	58 90 116 201	1,331 804 550 469	68.16 66.18 63.44 61.63 61.86	1,128 939 600 455 490	0.16 0.25 0.42 0.74 1.62	417.7 382.2 281.6 241.3 282.6	53.96 53.59 52.69 52.71 52.15	0.0 0.0 0.0 0.0 0.0	62 74 70 83 159	5.53 7.89 11.59 18.14 32.33	1 1 1 2 4	0 0 1
0.25 to <0.50 0.50 to <0.75	58 90 116	1,331 804 550	68.16 66.18 63.44 61.63	1,128 939 600 455	0.16 0.25 0.42 0.74	417.7 382.2 281.6 241.3	53.96 53.59 52.69 52.71	0.0 0.0 0.0 0.0	62 74 70 83	5.53 7.89 11.59 18.14	1 1 1 2	0 0 1 1 2
0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75	58 90 116 201 107 93	1,331 804 550 469 299 170	68.16 66.18 63.44 61.63 61.86 61.62 62.26	1,128 939 600 455 490 292 199	0.16 0.25 0.42 0.74 1.62 1.28 2.13	417.7 382.2 281.6 241.3 282.6 164.6 118.0	53.96 53.59 52.69 52.71 52.15 52.08 52.26	0.0 0.0 0.0 0.0 0.0 0.0 0.0	62 74 70 83 159 79	5.53 7.89 11.59 18.14 32.33 27.23 39.81	1 1 1 2 4 2	0 0 1 1 2 1
0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5	58 90 116 201 107	1,331 804 550 469 299	68.16 66.18 63.44 61.63 61.86 61.62	1,128 939 600 455 490 292 199 297	0.16 0.25 0.42 0.74 1.62 1.28	417.7 382.2 281.6 241.3 282.6 164.6 118.0 167.5	53.96 53.59 52.69 52.71 52.15 52.08	0.0 0.0 0.0 0.0 0.0 0.0	62 74 70 83 159	5.53 7.89 11.59 18.14 32.33 27.23	1 1 1 2 4 2	0 0 1 1 2 1 1 1 5
0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00	58 90 116 201 107 93 165 110	1,331 804 550 469 299 170 208	68.16 66.18 63.44 61.63 61.86 61.62 62.26 63.59	1,128 939 600 455 490 292 199	0.16 0.25 0.42 0.74 1.62 1.28 2.13 5.36	417.7 382.2 281.6 241.3 282.6 164.6 118.0	53.96 53.59 52.69 52.71 52.15 52.08 52.26 53.81	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	62 74 70 83 159 79 79	5.53 7.89 11.59 18.14 32.33 27.23 39.81 76.75	1 1 1 2 4 2 2 2	0 0 1 1 2 1
0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5	58 90 116 201 107 93 165	1,331 804 550 469 299 170 208	68.16 66.18 63.44 61.63 61.86 61.62 62.26 63.59 63.63	1,128 939 600 455 490 292 199 297 201	0.16 0.25 0.42 0.74 1.62 1.28 2.13 5.36 4.07	417.7 382.2 281.6 241.3 282.6 164.6 118.0 167.5	53.96 53.59 52.69 52.71 52.15 52.08 52.26 53.81 52.70	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	62 74 70 83 159 79 79 228	5.53 7.89 11.59 18.14 32.33 27.23 39.81 76.75 62.89	1 1 1 2 4 2 2 2 9	0 0 1 1 2 1 1 5
0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10	58 90 116 201 107 93 165 110 55 56	1,331 804 550 469 299 170 208 143 65	68.16 66.18 63.44 61.63 61.86 61.62 62.26 63.59 63.63 63.50 65.32	1,128 939 600 455 490 292 199 297 201	0.16 0.25 0.42 0.74 1.62 1.28 2.13 5.36 4.07 8.07	417.7 382.2 281.6 241.3 282.6 164.6 118.0 167.5 119.9 47.6	53.96 53.59 52.69 52.71 52.15 52.08 52.26 53.81 52.70 56.13	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	62 74 70 83 159 79 79 228 126	5.53 7.89 11.59 18.14 32.33 27.23 39.81 76.75 62.89 105.70	1 1 1 2 4 2 2 2 9 4	0 0 1 1 2 1 1 5 3 3
0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10 10.00 to <100.00 10 to <20	58 90 116 201 107 93 165 110 55 56 27	1,331 804 550 469 299 170 208 143 65 38 26	68.16 66.18 63.44 61.63 61.86 61.62 62.26 63.59 63.63 63.50 65.32	1,128 939 600 455 490 292 199 297 201 96 80 44	0.16 0.25 0.42 0.74 1.62 1.28 2.13 5.36 4.07 8.07 21.48 14.05	417.7 382.2 281.6 241.3 282.6 164.6 118.0 167.5 119.9 47.6 40.0 22.1	53.96 53.59 52.69 52.71 52.15 52.08 52.26 53.81 52.70 56.13 55.40 56.32	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	62 74 70 83 159 79 79 228 126 102 128	5.53 7.89 11.59 18.14 32.33 27.23 39.81 76.75 62.89 105.70 158.92 144.42	1 1 1 2 4 2 2 2 9 4 4 10	0 0 1 1 2 1 1 5 3 3 6
0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10 10.00 to <100.00	58 90 116 201 107 93 165 110 55 56	1,331 804 550 469 299 170 208 143 65	68.16 66.18 63.44 61.63 61.86 61.62 62.26 63.59 63.63 63.50 65.32	1,128 939 600 455 490 292 199 297 201 96 80	0.16 0.25 0.42 0.74 1.62 1.28 2.13 5.36 4.07 8.07 21.48	417.7 382.2 281.6 241.3 282.6 164.6 118.0 167.5 119.9 47.6	53.96 53.59 52.69 52.71 52.15 52.08 52.26 53.81 52.70 56.13	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	62 74 70 83 159 79 79 228 126 102	5.53 7.89 11.59 18.14 32.33 27.23 39.81 76.75 62.89 105.70 158.92	1 1 1 2 4 2 2 2 9 4 4	0 0 1 1 2 1 1 5 3 3
0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.75 to <1.75 1.75 to <2.5 2.50 to <10.00 2.50 to <5 5 to <10 10.00 to <100.00 10 to <20 20 to <30	58 90 116 201 107 93 165 110 55 56 27 13	1,331 804 550 469 299 170 208 143 65 38 26	68.16 66.18 63.44 61.63 61.86 61.62 62.26 63.59 63.63 63.50 65.32 65.72	1,128 939 600 455 490 292 199 297 201 96 80 44	0.16 0.25 0.42 0.74 1.62 1.28 2.13 5.36 4.07 8.07 21.48 14.05 22.45	417.7 382.2 281.6 241.3 282.6 164.6 118.0 167.5 119.9 47.6 40.0 22.1 9.1	53.96 53.59 52.69 52.71 52.15 52.08 52.26 53.81 52.70 56.13 55.40 56.32 54.85	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	62 74 70 83 159 79 79 228 126 102 128 64	5.53 7.89 11.59 18.14 32.33 27.23 39.81 76.75 62.89 105.70 158.92 144.42 170.77	1 1 1 2 4 2 2 2 9 4 4 10 3	0 0 1 1 2 1 1 5 3 3 6 2

												Dec 31, 2021
in € m.	a	b	C	d	e	f	g	h	i	j_	k	I
(unless stated otherwise) Exposure class/ PD scale Other retail SMEs	On-balance sheet exposures	Off-balance- sheet exposures pre- CCF	Exposure weighted average CCF (in %)	Exposure post CCF and post CRM	Exposure weighted average PD (%)	Number of obligors (in 1,000s)	Exposure weighted average LGD (%)	Exposure weighted average maturity (in years)	Risk weighted exposure amount after supporting factors	Density of risk weighted exposure amount (in %)	Expected Loss amount	Value adjustments and Provisions
0.00 to <0.15	725	2,638	23.45	1,420	0.11	37.3	44.66	2.9	141	9.93	1	0
										8.92	0	
0.00 to <0.10 0.10 to <0.15	396 329	2,153	17.29 50.82	. <u>843</u> 577	0.09	22.8 14.5	45.70	2.3	75 66	11.40	0	0
0.10 to <0.15 0.15 to <0.25		815	35.78	807	0.14	23.9	44.42	3.4	136	16.90	1	0
0.15 to <0.25 0.25 to <0.50		965	28.93	756	0.40	25.8	46.56	3.4	187	24.76	1	1
0.50 to <0.75	570	597	36.54	581	0.40	17.2	50.99	3.4	204	35.13		1
0.75 to <2.50	1,117	723	43.45	972	1.44	18.4	55.62	3.4	490	50.35	7	3
	588	433		522	1.44	11.1		2.8		46.60	3	1
0.75 to <1.75 1.75 to <2.5	588	289	41.56 46.27	451	1.82	7.3	55.52 55.74	3.7	243 246	54.70	4	2
2.50 to <10.00		262	40.27	485	4.48		57.80	2.9	315	64.86	12	7
2.50 to <10.00 2.50 to <5	592	202	41.73	402	3.73	11.3 8.7	57.80	2.9	257	63.91	8	5
2.50 to <5 5 to <10		40	34.10	83	8.14	2.5	56.86	2.9	58	69.45	4	2
10.00 to <100.00		38								91.83	9	5
	146		58.87	83	19.79	2.9	56.76	2.4	76			
10 to <20	73	13	34.37		13.46	1.3	58.29	2.9	28	81.60	2	2
20 to <30	37	20	81.00	34	21.01	1.0	51.57	1.5	31	91.03	4	1
30.00 to <100.00	36	5	32.83	15	31.40	0.7	64.88	3.1	18	116.73	3	2
100.00 (Default)	294	22	41.12	260	100.00	3.4	58.03	2.1	60	23.23	150	215
Sub-total	4,683	6,060	30.68	5,365	6.01	140.1	49.59	3.1	1,610	30.01	183	232
Other retail non-SMEs												
0.00 to <0.15	2,556	3,248	32.53	3,911	0.10	722.5	36.50	4.5	411	10.51	2	2
0.00 to <0.10	1,653	2,702	28.26	2,606	0.08	529.7	33.76	3.0	213	8.16	1	1
0.10 to <0.15	904	546	53.68	1,305	0.15	192.9	41.95	7.5	198	15.20	1	1
0.15 to <0.25	1,733	747	58.57	2,247	0.25	241.5	43.17	11.1	488	21.71	2	2
0.25 to <0.50	2,265	935	64.55	2,895	0.42	252.9	44.15	13.3	888	30.69	5	4
0.50 to <0.75	3,014	808	64.19	3,529	0.72	320.2	45.90	11.2	1,508	42.72	12	8
0.75 to <2.50	9,387	693	44.44	9,693	1.68	929.3	50.29	6.4	6,248	64.46	82	58
0.75 to <1.75	4,110	410	49.17	4,316	1.24	434.5	48.72	7.0	2,462	57.06	26	21
1.75 to <2.5	5,277	283	37.61	5,378	2.03	494.8	51.56	5.9	3,785	70.39	56	38
2.50 to <10.00	7,904	325	49.67	8,058	4.97	585.3	48.80	6.5	6,131	76.09	191	153
2.50 to <5	5,950	251	41.49	6,053	3.94	469.4	50.47	6.2	4,653	76.87	120	88
5 to <10	1,954	74	77.52	2,004	8.08	115.9	43.78	7.3	1,478	73.74	71	64
10.00 to <100.00	1,106	39	69.33	1,139	20.85	139.5	47.86	6.6	1,046	91.85	107	103
10 to <20	649	19	74.66	672	14.07	50.0	45.66	6.8	624	92.86	43	42
20 to <30	233	8	57.66	238	22.80	65.7	52.84	5.8	321	134.76	29	26
30.00 to <100.00	224	11	69.08	230	38.63	23.8	49.10	6.7	102	44.43	35	35
100.00 (Default)	1,892	41	62.76	1,911	100.00	136.8	58.86	3.3	358	18.74	1,128	1,133
Sub-total	29,857	6,836	45.91	33,384	8.27	3,328.0	47.25	7.4	17,078	51.16	1,529	1,462
		2,230				2,22.0		***	,		.,==0	.,.02
All exposure classes												
=	572,264	252.626	36.06	663,369	3.97	8,711.7	32.69	8.2	180,861	27.26	7,622	7,276
Total	372,264	232,020	30.00	000,000	5.31	0,711.7	02.00	0.2	100,001	21.20	7,022	1,210

Total IRB exposure covered by credit derivatives

Article 453 (j) CRR

The table below presents the Group's IRB exposures, split into FIRB and AIRB. The table shows the RWA by the relevant exposure classes prior and after the usage of CRM techniques in the form of credit derivatives, where the exposure is then assigned to the exposure class of the protection seller.

EU CR7 - IRB approach - Effect on the RWAs of credit derivatives used as CRM techniques

			Jun 30, 2022		Dec 31, 2021
		a_	b	а	b
	in € m.	pre-credit derivatives RWA	Actual RWA	pre-credit derivatives RWA	Actual RWA
1	Exposures under FIRB				
2	Central governments and central banks	0	0	0	0
3	Institutions	3	3	3	3
За	Corporates	2,753	2,757	2,766	2,768
	of which:				
4	SMEs	77	77	94	94
5	Specialized lending	591	591	699	699
	Others	2,085	2,089	1,973	1,975
6a	Sub-total FIRB	2,756	2,759	2,769	2,770
7	Exposures under AIRB				
8	Central governments and central banks	16,910	16,910	16,361	16,361
9	Institutions	4,046	4,101	4,339	4,381
9a	Corporates	115,301	113,903	101,209	100,227
	of which:		,,,,,,	, , , , ,	,
10	SMEs	8,025	8,025	7,433	7,433
11	Specialized lending	9,427	9,427	8,239	8,230
	Others	97,849	96,451	85,537	84,564
12a	Retail	61,374	61,374	59,891	59,891
	of which:				
13	Secured by real estate property SMEs	1,099	1,099	1,146	1,146
14	Secured by real estate property non-SMEs	40,136	40,136	38,979	38,979
15	Qualifying revolving	1,054	1,054	1,078	1,078
16	Other retail SMEs	1,666	1,666	1,610	1,610
17	Other retail non-SMEs	17,419	17,419	17,078	17,078
19a	Sub-total AIRB	197,632	196,288	181,801	180,861
20	Total	200,387	199,047	184,569	183,631

Deutsche Bank's RWA for exposures under the IRB approach is € 199.0 billion as of June 30, 2022 in comparison to € 183.6 billion as of the prior period. The increase of € 15.4 billion is predominantly driven by increases in RWA withinthe Group's AIRB for the exposure classes "Corporates – Others", "Corporates – Specialized Lending" and Retail - Secured by real estate property non-SMEs". The RWA for Corporate exposures mainly benefitted from the application of credit derivatives.

Total IRB exposure covered by the use of CRM techniques

Article 453 (g) CRR

The below two tables present Deutsche Bank's FIRB and AIRB exposures and the extent of the use of CRM techniques broken down by exposure classes. The CRM techniques are separately shown for funded credit protection (FCP) and unfunded credit protection (UFCP). For FCP the table also presents a split between the part of exposures covered by other eligible collaterals and the part of exposures covered by other funded credit protection. Additionally, the RWA without substitution effects (reduction effects only) and the RWA with substitution effects (both reduction and substitution effects) are shown.

EU CR7-A – Foundation IRB approach – Extent of the use of CRM techniques

_														Jun 30, 2022
	а	b	С	d	е	f	g	h	i	j	k	1	m	n
											Credit risk mitiga	tion techniques	Credit risk Mitiga	ation methods in ation of RWEAs
									Funded credit	protection (FCP)	Unfunded of	credit protection (UFCP)		
		_	Part of	exposures covere	d by Other eligibl	e collaterals (%)	Part of exposu	ires covered by	Other funded cred	lit protection (%)	_			
in € m. (unless stated otherwise)	Total exposures	Part of exposures covered by Financial Collaterals (%)	Total	of which: Part of exposures covered by Immovable property Collaterals (%)	of which: Part of exposures covered by Receivables (%)	of which: Part of exposures covered by Other physical collateral (%)	Total	of which: Part of exposures covered by Cash on deposit (%)	of which: Part of exposures covered by Life insurance policies (%)	of which: Part of exposures covered by Instruments held by a third party (%)	Part of exposures covered by Guarantees (%)	Part of exposures covered by Credit Derivatives (%)	RWA without substitution effects (reduction effects only)	RWA with substitution effects (both reduction and sustitution effects)
Central governments														
and central banks	50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Institutions	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3	3
Corporates	6,792	0.00	9.46	9.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,757	2,757
of which:														
SME	130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77	77
Specialized lending	910	0.00	70.51	70.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	591	591
Other	5,752	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,089	2,089
Total	6,846	0.00	9.39	9.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,759	2,759

_	а	b	C	d	e	f	g	h	i	j_	k		m	n
											Credit risk mitiga	tion techniques	Credit risk Mitigathe	ation methods in ation of RWEAs
									Funded credit	protection (FCP)	Unfunded o	redit protection (UFCP)	_	
			Part of	exposures covere	d by Other eligibl	e collaterals (%)	Part of exposu	ires covered by	Other funded cred	lit protection (%)	_			
in € m. (unless stated	Total	Part of exposures covered by Financial		of which: Part of exposures covered by Immovable property	of which: Part of exposures covered by Receivables	of which: Part of exposures covered by Other physical		of which: Part of exposures covered by Cash on	of which: Part of exposures covered by Life insurance	of which: Part of exposures covered by Instruments held by a third	Part of exposures covered by Guarantees	Part of exposures covered by Credit Derivatives	RWA without substitution effects (reduction	RWA with substitution effects (both reduction and sustitution
otherwise)	exposures	Collaterals (%)	Total	Collaterals (%)	(%)	collateral (%)	Total	deposit (%)	policies (%)	party (%)	(%)	(%)	effects only)	effects)
Central governments														
and central banks	58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Institutions	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3	3
Corporates	6,743	0.00	10.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,768	2,768
of which:														
SME	153	0.00	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	94	94
Specialized lending	998	0.00	66.59	66.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	699	699
Other	5,591	0.00	0.16	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,975	1,975
Total	6,804	0.00	9.91	9.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,770	2,770

Dec 31, 2021

EU CR7-A – Advanced IRB approach – Extent of the use of CRM techniques

_														Jun 30, 2022
	а	b	С	d	е	f	g	h	i	j	k		m	n
													Credit risk Mitiga	
_											Credit risk mitiga		the calcul	ation of RWEAs
									Cunded and dis	protection (FCP)	Unfunded of	credit protection (UFCP)		
			Dort of	f exposures covere	d by Other elimibl	a colleterale (0/)	Dowl of avenue	waa aayaaad by	Other funded cred	. ,		(UFCP)	-	
		_	Part of	of which:	a by Other eligibl	e collaterals (%)	Part of expost	ires covered by	Other runded cred	of which:	-			RWA with
				Part of	of which:	of which:		of which:	of which:	Part of		Part of		substitution
		Part of		exposures	Part of	Part of		Part of	Part of	exposures	Part of	exposures	RWA without	effects
		exposures		covered by	exposures	exposures		exposures	exposures	covered by	exposures	covered by	substitution	(both
in € m. (unless stated	Total	covered by Financial		Immovable	covered by Receivables	covered by Other physical		covered by Cash on	covered by Life insurance	Instruments held by a third	covered by Guarantees	Credit Derivatives	effects (reduction	reduction and sustitution
otherwise)	exposures	Collaterals (%)	Total	property Collaterals (%)	(%)	collateral (%)	Total	deposit (%)	policies (%)	party (%)	Guarantees (%)	(%)	effects only)	effects)
Central governments	одробатов	Obligator Glo (70)	Total	Conditional (70)	(70)	0011010101 (70)		40p00it (70)	policios (70)	- Party (70)	(70)	(70)		
and central banks	134,114	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.00	0.00	0.00	0.00	17,189	16,910
Institutions	21,597	7.30	1.54	1.34	0.00	0.20	0.53	0.52	0.01	0.00	0.00	0.00	3,907	4,101
Corporates	304,181	16.27	19.35	17.72	0.35	1.28	1.79	1.31	0.49	0.00	0.00	0.00	115,315	113,903
of which:										-				
SME	21,252	6.26	24.78	22.53	0.17	2.08	1.19	1.00	0.88	0.00	0.00	0.00	8,100	8,025
Specialized lending	46,473	0.80	65.77	62.42	0.00	3.35	0.12	0.12	0.00	0.00	0.00	0.00	9,733	9,427
Other	236,456	20.21	9.74	8.50	0.43	0.81	2.17	1.57	0.55	0.00	0.00	0.00	97,483	96,451
Retail	239,436	2.86	54.26	54.07	0.18	0.01	0.43	0.01	0.42	0.00	0.00	0.00	61,039	61,374
of which:														
Secured by real														
estate property														
SMEs	8,647	2.45	73.89	73.40	0.46	0.02	2.50	0.01	2.49	0.00	0.00	0.00	1,126	1,099
Secured by real														
estate property														
non-SMEs	180,375	2.42	68.42	68.23	0.19	0.00	0.39	0.00	0.39	0.00	0.00	0.00	40,181	40,136
Qualifying revolving	10,583	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,054	1,054
Other retail SMEs	5,312	4.11	1.20	0.11	0.82	0.27	0.97	0.01	0.96	0.00	0.00	0.00	1,453	1,666
Other retail non-														
SMEs	34,519	5.99	0.13	0.09	0.04	0.01	0.14	0.01	0.13	0.00	0.00	0.00	17,225	17,419
Total	699,329	8.28	27.04	26.26	0.21	0.57	0.96	0.60	0.36	0.00	0.00	0.00	197,451	196,288

_														Dec 31, 2021
	а	b	С	d	е	f	g	h	i	j	k	- 1	m	n
													Credit risk Mitiga	
_											Credit risk mitiga		the calcu	lation of RWEAs
										: (505)	Unfunded of	redit protection		
										protection (FCP)	-	(UFCP)	-	
		_	Part of	exposures covere	d by Other eligible	e collaterals (%)	Part of exposu	ires covered by 0	Other funded cred		-			
				of which: Part of	of which:	of which:		of which:	of which:	of which: Part of		Part of		RWA with substitution
		Part of		exposures	Part of	Part of		Part of	Part of	exposures	Part of	exposures	RWA without	effects
		exposures		covered by	exposures	exposures		exposures	exposures	covered by	exposures	covered by	substitution	(both
		covered by		Immovable	covered by	covered by		covered by	covered by	Instruments	covered by	Credit	effects	reduction and
in € m. (unless stated otherwise)	Total exposures	Financial Collaterals (%)	Total	property Collaterals (%)	Receivables (%)	Other physical collateral (%)	Total	Cash on deposit (%)	Life insurance policies (%)	held by a third party (%)	Guarantees (%)	Derivatives (%)	(reduction effects only)	sustitution effects)
Central governments	ехрозитез	Ochaterals (70)	Total	Ooliaterals (70)	(70)	Collateral (70)	Total	deposit (70)	policies (70)	party (70)	(70)	(70)	enects only)	
and central banks	132,063	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	16,730	16,361
Institutions			2.57	2.24	0.00		0.36		0.00					-
	19,804	5.01				0.33		0.39		0.00	0.00	0.00	4,109	4,381
Corporates	276,898	15.68	19.01	17.43	0.32	1.26	1.31	0.85	0.46	0.00	0.00	0.00	101,294	100,227
of which:														
SME	19,141	4.73	25.86	23.72	0.14	2.00	1.21	0.29	0.92	0.00	0.00	0.00	7,520	7,433
Specialized lending	41,405	0.89	63.78	60.08	0.00	3.71	0.11	0.11	0.00	0.00	0.00	0.00	8,481	8,230
Other	216,351	19.48	9.83	8.71	0.39	0.73	1.55	1.04	0.51	0.00	0.00	0.00	85,293	84,564
Retail	234,657	2.89	54.12	53.92	0.19	0.01	0.47	0.01	0.46	0.00	0.00	0.00	59,644	59,891
of which:														
Secured by real														
estate property														
SMEs	8,895	2.52	73.77	73.28	0.47	0.02	2.71	0.01	2.70	0.00	0.00	0.00	1,177	1,146
Secured by real														
estate property														
non-SMEs	176,167	2.47	68.30	68.10	0.19	0.00	0.43	0.01	0.42	0.00	0.00	0.00	39,029	38,979
Qualifying revolving	10,846	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,078	1,078
Other retail SMEs	5,365	4.26	1.33	0.11	0.85	0.37	1.05	0.02	1.03	0.00	0.00	0.00	1,433	1,610
Other retail non-														
SMEs	33,384	5.95	0.12	0.07	0.04	0.01	0.15	0.01	0.14	0.00	0.00	0.00	16,927	17,078
Total	663,422	7.72	27.15	26.41	0.20	0.54	0.73	0.37	0.36	0.00	0.00	0.00	181,777	180,861

Development of credit risk RWA

Article 438 (h) CRR

The following table provides an analysis of key drivers for RWA movements observed for credit risk, excluding counterparty credit risk, to the extent covered in the IRB approaches in the current and previous reporting period.

EU CR8 - RWA flow statement of credit risk exposures under the IRB approach

		Three months	Three months
		ended Jun 30,	ended Mar 31,
		2022	2022
		a	а
	in € m.	RWA	RWA
1	Risk weighted exposure amount as at the end of the previous reporting period	192,608	179,700
2	Asset size	(1,677)	4,877
3	Asset quality	40	1,285
4	Model updates	(44)	(135)
5	Methodology and policy	0	5,541
6	Acquisitions and disposals	0	0
7	Foreign exchange movements	4,645	1,341
8	Other	0	0
9	Risk weighted exposure amount as at the end of the reporting period	195,573	192,608

Organic changes in the Groups portfolio size and composition are considered in the category "asset size". The category "asset quality" represents the effects from portfolio rating migrations, loss given default, model parameter recalibrations as well as collateral coverage and netting activities. "Model updates" include model refinements and further roll out of advanced internal models. RWA movements resulting from externally, regulatory-driven changes, e.g. applying new regulations, are considered in the "methodology and policy" section. "Acquisition and disposals" show significant exposure movements which can be clearly assigned to acquisition or disposal related activities. Changes that cannot be attributed to the above categories are reflected in the category "other".

The increase in RWA for credit risk exposures under the IRB approach of 1.5% or € 3.0 billion since March 31, 2022 is primarily resulting from Foreign exchange movements. The decrease in the category "asset size" reflects lower RWA due to balance sheet management in Deutsche Bank businesses and de-risking in the Capital Release Unit.

Specialized lending and equity exposures in the banking book

Article 438 (e) CRR

The table below summarizes the foundation approach exposure for specialized lending where a former Postbank portfolio is part of the "income-producing real estate and high volatility commercial real estate" slotting category. Deutsche Bank does not treat any further exposures under the slotting approach as they are covered under the AIRB. Consequently, Deutsche Bank does not disclose tables for "Project finance", "Object finance" and "Commodities finance". For the calculation of minimum capital requirements regulatory risk weights are applied where potential risk mitigating factors are already considered in the assignment of the risk weight. The table presents the on- and off-balance-sheet exposures, the EAD and RWA as well as the associated regulatory expected losses.

EU CR10.02 - Specialized lending: Income-producing real estate and high volatility commercial real estate (Slotting approach)

in € m. (unless stated o	otherwise)						Jun 30, 2022
Regulatory categories	Remaining maturity	On-balance sheet amount	Off-balance sheet amount	Risk weight	Exposure amount	RWA	Expected losses
Category 1	Less than 2.5 years	171	61	50 %	217	108	0
	Equal to or more than 2.5 years	659	25	70 %	678	475	3
Category 2	Less than 2.5 years	14	0	70 %	14	10	0
	Equal to or more than 2.5 years	15	0	90 %	15	13	0
Category 3	Less than 2.5 years	0	0	115 %	0	0	0
	Equal to or more than 2.5 years	0	0	115 %	0	0	0
Category 4	Less than 2.5 years	0	0	250 %	0	0	0
	Equal to or more than 2.5 years	0	0	250 %	0	0	0
Category 5	Less than 2.5 years	0	0		0	0	0
	Equal to or more than 2.5 years	10	0		10	0	9
Total	Less than 2.5 years	186	61	_	231	119	0
	Equal to or more than 2.5 years	684	25	_	703	488	12

in € m. (unless stated o	therwise)						Dec 31, 2021
Regulatory categories	Remaining maturity	On-balance sheet amount	Off-balance sheet amount	Risk weight	Exposure amount	RWA	Expected losses
Category 1	Less than 2.5 years	97	99	50 %	172	86	0
	Equal to or more than 2.5 years	833	13	70 %	843	590	3
Category 2	Less than 2.5 years	20	0	70 %	20	14	0
	Equal to or more than 2.5 years	28	0	90 %	28	25	0
Category 3	Less than 2.5 years	4	0	115 %	4	4	0
	Equal to or more than 2.5 years	0	0	115 %	0	0	0
Category 4	Less than 2.5 years	1	26	250 %	20	51	2
	Equal to or more than 2.5 years	1	2	250 %	2	5	0
Category 5	Less than 2.5 years	0	0		0	0	0
	Equal to or more than 2.5 years	15	0		15	0	10
Total	Less than 2.5 years	122	125	_	216	155	2
	Equal to or more than 2.5 years	877	15	_	888	620	14

As part of the advanced IRBA Deutsche Bank uses supervisory defined risk weights according to the simple risk weight approach forthe Group's equity positions. The table below presents the on- and off-balance-sheet exposures, the EAD, RWA and capital requirements for the categories of equity exposures as set out in Article 155 (2) CRR. For all of these positions no credit risk mitigation techniques have been applied.

EU CR10.05 - Equity exposures under the simple risk-weighted approach

	_	
ın	#	m

(unless stated otherwise)						Jun 30, 2022
Categories	On-balance sheet amount	Off-balance sheet amount	Risk weight	Exposure amount	RWA	Capital requirements
Private equity exposures sufficiently diversified	298	0	190 %	298	566	2
Exchange-traded equity exposures	175	792	290 %	966	2,803	8
All other equity exposures	2,094	29	370 %	2,123	7,857	51
Total	2 567	821		3 388	11 225	61

n	€	m.	
		111.	

(unless stated otherwise)						Dec 31, 2021
Categories	On-balance sheet amount	Off-balance sheet amount	Risk weight	Exposure amount	RWA	Capital requirements
Private equity exposures sufficiently diversified	594	0	190 %	594	1,129	5
Exchange-traded equity exposures	606	1,716	290 %	2,323	6,736	14
All other equity exposures	1,506	28	370 %	1,533	5,674	37
Total	2,707	1,744		4,450	13,539	55

Deutsche Bank's RWA for equity exposures under the simple risk-weighted approach were at € 11.2 billion as of June 30, 2022 in comparison to € 13.5 billion in the prior period. The decrease of € 2.3 billion is predominantly driven by exchangetraded equity exposures, partly offset by other equity exposures.

Counterparty credit risk (CCR)

Estimate of alpha factor

Article 439 (k) CRR

Under the internal model method (IMM) approach the exposure at default (EAD) is calculated as the product of the expected positive exposure (EPE) and a multiplier 'Alpha' (a). The scaling factor alpha is applied in order to correct for amongst others correlations between parties, concentration risk and to account for the level of volatility/correlation that might coincide with a downturn. Deutsche Bank received regulatory approval to use its own calibrated alpha factor, however, for its regulatory capital calculation the regulatory minimum level has to be applied. In 2020, the regulatory floor has been increased from 1.2 to 1.25. For the small population of transactions for which a simulation cannot be computed or is subject to regulatory restrictions (such as for those with risk factors not approved by the supervisory authorities or for specific wrong-way risk), the EAD used is derived from the new Standardized Approach for Counterparty Credit Risk (SA-CCR) according to Article 274 CRR.

CCR exposures by model approach and development

Article 439 (f, g, k) CRR

The following table shows the methods used for calculating the regulatory requirements for CCR exposure including the main parameters for each method. Exposures relevant for credit valuation adjustment (CVA) charges and exposures cleared through a central counterparty (CCP) are presented separately in table EU CCR2 and EU CCR8, respectively. Deutsche Bank does not make use of the original exposure method for derivatives nor the financial collateral simple method for SFTs. Deutsche Bank also uses the new standardized approach for counterparty credit risk (SA-CCR) to calculate the exposure at default for derivatives. This approach still consists of a replacement cost and a potential future exposure but also considers a multiplier. The multiplier differentiates between margined and non-margined trades and recognizes netting and hedging benefits as well as collateralization. Under the internal model method (IMM) only the effective expected positive exposure (EEPE) and the exposure at default are presented. For the calculation of the Group's CCR RWA the higher of the stressed EEPE and the unstressed EEPE is taken into consideration. The simulation process of future market values in the internal model also includes the impact from regulatory netting and collateralization across all asset classes.

EU CCR1 - Analysis of CCR exposure by approach

								J	lun 30, 2022
		а	b	С	d	е	f	g	h
	in € m. (unless stated otherwise)	Replacement cost (RC)	Potential future exposure (PFE)	EEPE	Alpha used for computing regulatory exposure value	Exposure value pre-CRM	Exposure value post- CRM	Exposure value	RWA
EU1	EU - Original Exposure								
	Method (for derivatives)	0	0	-	1.4	0	0	0	0
EU2	EU - Simplified SA-CCR (for								
	derivatives)	0	0	-	1.4	0	0	0	0
1	SA-CCR (for derivatives)	2,482	2,981	-	1.4	11,319	7,648	7,648	2,793
	IMM (for derivatives and					_			
2	SFTs)	_	_	60,243	1.25	586,541	75,548	75,303	19,058
	of which:								
	Securities financing								
2a	transactions netting sets	-	-	27,149	-	472,315	33,937	33,937	2,317
	Derivatives and long								
OI:	settlement transactions			00.000		444.000	44.044	44.007	40.744
2b	netting sets	_	_	33,093	_	114,226	41,611	41,367	16,741
2c	from Contractual cross-			0			0	0	0
	product netting sets			0		0	0	0	0
3	Financial collateral simple					0	0	0	0
4	method (for SFTs) Financial collateral								0
4									
	comprehensive method (for SFTs)	_	_	_	_	58,037	26,232	26,232	1,628
5	VaR for SFTs					0	0	0	0
6	Total					655,897	109,428	109,184	23,479

									Dec 31, 2021
		а	b	С	d	е	f	g	h
	in € m. (unless stated otherwise)	Replacement cost (RC)	Potential future exposure (PFE)	EEPE	Alpha used for computing regulatory exposure value	Exposure value pre-CRM	Exposure value post- CRM	Exposure value	RWA
	EU - Original Exposure								
EU1	Method (for derivatives)	0	0	_	1.4	0	0	0	0
	EU - Simplified SA-CCR (for								
EU2	derivatives)	0	0	_	1.4	0	0	0	0
1	SA-CCR (for derivatives)	1,764	2,870	-	1.4	10,483	6,550	6,550	2,217
	IMM (for derivatives and								
2	SFTs) of which: Securities financing	-	-	56,239	1.25	497,704	70,567	70,299	19,957
2a	transactions netting sets Derivatives and long settlement transactions	-	-	21,310	-	392,742	26,638	26,638	2,010
2b	netting sets from Contractual cross-	-	-	34,929	-	104,962	43,930	43,661	17,947
2c	product netting sets			0		0	0	0	0
3	Financial collateral simple method (for SFTs)	_		_	_	0	0	0	0
	Financial collateral comprehensive method (for								
4	SFTs)	_	_	-	_	84,247	23,659	19,820	2,047
5	VaR for SFTs	_	_	_	_	0	0	0	0
6	Total	_		_	_	592,434	100,776	96,669	24,221

The size of Deutsche Bank's on- and off-balance-sheet derivative business is at € 686.5 billion as of June 30, 2022 (€ 681.6 billion as of December 31, 2021), which makes around 50% of the Group's total assets.

Deutsche Bank's CRR RWA stands at € 23.5 billion as of June 30, 2022 reflecting a decrease of € 0.7 billion from December 31, 2021. The decrease is predominantly driven by reduced RWA under IMM for derivatives and long settlement transactions netting sets as well as Financial collateral comprehensive method for securities financing transactions, partly offset by increased RWA under SA-CCR for derivatives and IMM for securities financing transactions.

CCR exposures development

Article 438 (h) CRR

The following table provides an analysis of key drivers for RWA movements observed for counterparty credit risk exposures calculated under the internal model method (IMM) in the current and previous reporting period.

EU CCR7 - RWA flow statement of counterparty credit risk exposures under the internal model method

		Three months ended Jun 30, 2022	Three months ended Mar 31, 2022
		a	а
	in € m.	RWA	RWA
1	Counterparty credit risk RWA under the IMM opening balance	19,216	20,171
2	Asset size	(476)	(1,322)
3	Credit quality of counterparties	(68)	(18)
4	Model updates (IMM only)	0	0
5	Methodology and policy (IMM only)	0	0
6	Acquisitions and disposals	0	0
7	Foreign exchange movements	529	385
8	Other	0	0
9	Counterparty credit risk RWA under the IMM closing balance	19,201	19,216

Organic changes in portfolio size and composition are considered in the category "asset size". The category "credit quality of counterparties" represents the effects from portfolio rating migrations, loss given default, model parameter recalibrations as well as collateral coverage and netting activities. "Model updates (IMM only)" include model refinements and further roll out of advanced internal models. RWA movements resulting from externally, regulatory-driven changes, e.g. applying new regulations, are considered in the "methodology and policy (IMM only)" section. "Acquisition and disposals" shows significant exposure movements which can be clearly assigned to acquisition or disposal related activities. Changes that cannot be attributed to the above categories are reflected in the category "other".

The RWA for counterparty credit risk exposures under the IMM is almost flat compared to December 31, 2021. The decreases in "asset size", reflecting a change in the composition of the portfolio, and in the category "credit quality of counterparties" were offset by increases stemming from Foreign exchange movements.

CCR CVA capital charge

Article 439 (h) CRR

The table below EU CCR2 provides a breakdown of the credit valuation adjustment (CVA) RWA into advanced and standardized approaches. Furthermore the incremental contributions from the VaR and stressed VaR components are highlighted. The Group calculates the majority of the CVA based on an internal model as approved by the competent supervisory authority, which is consistent with the movement in the advanced method, driving the reported CVA RWA of € 4.7 billion (98%), whilst the standardized method covers only € 96 million (2%) of the total CVA RWA. The stressed VaR component is the main driver of advanced CVA RWA, which results from the stressed period volatilities considered. The overall decrease was primarily driven by model refinement in the risk representation affecting the CVA RWA calculation and changes in risk profile of the portfolio inclusive of risk mitigating hedges.

EU CCR2 - CVA capital charge

		Jun 30, 202			Dec 31, 2021	
		а	b	а	RWA 6,204 696 5,508 124	
	in € m.	Exposure value	RWA	Exposure value	RWA	
1	Total portfolios subject to the Advanced Method	68,046	4,712	56,373	6,204	
2	(i) VaR component (including the 3x multiplier)	0	893	0	696	
3	(ii) Stressed VaR component (including the 3× multiplier)	0	3,819	0	5,508	
4	Transactions subject to the Standardised method	415	96	504	124	
	Transactions subject to the Alternative approach (Based on the Original					
EU4	Exposure Method)	0	0	0	0	
5	Total transactions subject to own funds requirements for CVA risk	68,462	4,808	56,877	6,327	

CCR exposures to central counterparties

Article 439 (i) CRR

The table below presents an overview of Deutsche Bank's exposures and capital requirements to central counterparties arising from transactions, margins and contributions to default funds. As of June 30, 2022, Deutsche Bank mainly reported exposures to qualifying central counterparties (QCCP) as defined in Article 4 (88) CRR.

EU CCR8 - Exposures to CCPs

		J	lun 30, 2022		ec 31, 2021
		а	b	а	b
		Exposure		Exposure	
	_ <u>in € m.</u>	value	RWA	value	RWA
1	Exposures to QCCPs (total)		593	<u> </u>	737
	Exposures for trades at QCCPs (excluding initial margin and default fund				
2	contributions)	5,928	119	12,357	247
	of which:				
3	(i) OTC derivatives	1,488	30	1,723	34
4	(ii) Exchange-traded derivatives	1,001	20	1,653	33
5	(iii) Securities financing transactions	3,438	69	8,981	180
6	(iv) Netting sets where cross-product netting has been approved	0	0	0	0
7	Segregated initial margin	5,331	-	5,220	-
8	Non-segregated initial margin	2,780	56	2,021	40
9	Pre-funded default fund contributions	1,615	419	1,615	449
10	Unfunded default fund contributions	0	0	0	0
11	Exposures to non-QCCPs (total)	-	0	-	0
	Exposures for trades at non-QCCPs (excluding initial margin and default fund	·			
12	contributions)	0	0	0	0
	of which:				
13	(i) OTC derivatives	0	0	0	0
14	(ii) Exchange-traded derivatives	0	0	0	0
15	(iii) Securities financing transactions	0	0	0	0
16	(iv) Netting sets where cross-product netting has been approved	0	0	0	0
17	Segregated initial margin	0	-	0	-
18	Non-segregated initial margin	0	0	0	0
19	Prefunded default fund contributions	0	0	0	0
20	Unfunded default fund contributions	0	0	0	0

CCR exposures in the standardized approach

Article 444 (e) CRR

The following table provides the counterparty credit risk exposures in the standardized approach broken down by risk weights and regulatory exposure classes. This table excludes risk weighted exposure amounts derived from own funds requirements for CVA risk but includes exposures cleared through a CCP.

EU CCR3 - Standardized approach - CCR exposures by regulatory portfolio and risk

							Ju	n 30, 2022
	in € m.						R	isk Weight
	Exposure classes	0%	2%	4%	10%	20%	50%	70%
1	Central governments or central banks	3,459	0	0	0	0	0	0
2	Regional governments or local authorities	115	0	0	0	0	0	0
3	Public sector entities	370	0	0	0	3	0	0
4	Multilateral development banks	404	0	0	0	0	0	0
5	International organizations	0	0	0	0	0	0	0
6	Institutions	15	8,706	1	0	96	23	0
7	Corporates	125	0	0	0	217	5	0
8	Retail	0	0	0	0	0	0	0
	Institutions and corporates with a short-term							
9	credit assessment	0	0	0	0	0	0	0
10	Other items	0	0	0	0	0	0	0
11	Total	4,487	8,706	1	0	315	29	0

						Jun 30, 2022
	in € m.				Risk Weight	
	Exposure classes	75%	100%	150%	Others	Total
1	Central governments or central banks	0	0	0	0	3,459
2	Regional governments or local authorities	0	0	0	0	115
3	Public sector entities	0	0	0	0	372
4	Multilateral development banks	0	0	0	0	404
5	International organizations	0	0	0	0	0
6	Institutions	0	11	0	0	8,853
7	Corporates	0	1,005	2	0	1,353
8	Retail	1	0	0	0	1
9	Institutions and corporates with a short-term credit assessment	0	0	0	0	0
10	Other items	0	0	2	0	2
11	Total	1	1,016	4	0	14,558

							De	c 31, 2021
	in € m.						R	isk Weight
	Exposure classes	0%	2%	4%	10%	20%	50%	70%
1	Central governments or central banks	6,504	0	0	0	0	0	0
2	Regional governments or local authorities	178	0	0	0	21	0	0
3	Public sector entities	442	0	0	0	0	0	0
4	Multilateral development banks	395	0	0	0	0	0	0
5	International organizations	0	0	0	0	0	0	0
6	Institutions	21	10,459	1	0	51	9	0
7	Corporates	99	0	0	0	25	1	0
8	Retail	0	0	0	0	0	0	0
	Institutions and corporates with a short-term							
9	credit assessment	0	0	0	0	0	0	0
10	Other items	0	0	0	0	0	0	0
11	Total ¹	7,639	10,459	1	0	97	10	0

						Dec 31, 2021
	in € m.			I	Risk Weight	
	Exposure classes	75%	100%	150%	Others	Total
1	Central governments or central banks	0	0	0	0	6,504
2	Regional governments or local authorities	0	0	0	0	198
3	Public sector entities	0	0	0	0	442
4	Multilateral development banks	0	0	0	0	395
5	International organizations	0	0	0	0	0
6	Institutions	0	78	0	0	10,620
7	Corporates	0	1,079	0	0	1,203
8	Retail	4	0	0	0	4
9	Institutions and corporates with a short-term credit assessment	0	0	0	0	0
10	Other items	0	0	3	0	3
11	Total ¹	4	1,157	3	0	19,370

¹ Comparatives aligned to current presentation.

CCR exposures within the foundation IRBA

Article 452 (g) CRR

The following tables disclose Deutsche Bank's foundation IRBA counterparty credit risk exposures, i.e., derivatives and securities financing transactions, distributed on its internal rating scale for exposure classes central governments and central banks, institutions as well as corporates with its relevant subcategories. CVA charges or exposures cleared through a CCP are excluded.

Deutsche Bank discloses the exposure after CCF and CRM, where exposures covered by guarantees or credit derivatives are assigned to the protection seller.

The exposure after CCF and CRM is presented in conjunction with exposures-weighted average PD, RWAs, the average risk weight (RW) and the number of obligors. In addition, it provides the average LGD and average maturity, which is regulatory pre-defined in the foundation IRB. The tables provide the defaulted exposure separately.

EU CCR4 – FIRB approach – CCR exposures by portfolio and PD scale

(unless stated otherwise)	а	b	С	d	е	f	g
			Number of				Density of risk weighted
Exposure class/		Average PD	obligors	Average LGD	Average maturity		exposure
PD scale	Exposure value	(in %)	(in 1,000)	(in %)	(in years)	RWA	amounts
Central governments and central banks							
0.00 to <0.15	0	0	0	0	0	0	0
0.15 to <0.25	0	0	0	0	0	0	0
0.25 to <0.50	0	0	0	0	0	0	0
0.50 to <0.75	0	0	0	0	0	0	0
0.75 to <2.50	0	0	0	0	0	0	0
2.50 to <10.00	0	0	0	0	0	0	0
10.00 to <100.00	0	0	0	0	0	0	0
100.00 (Default)	0	0	0	0	0	0	0
Sub-total	0	0	0	0	0	0	0
Institutions							
0.00 to <0.15	0	0	0	0	0	0	0
0.15 to <0.25	0	0	0	0	0	0	0
0.25 to <0.50	0	0	0	0	0	0	0
0.50 to <0.75		0.77	0.0	45.00	2.5	0	88.81
0.75 to <2.50		0	0	0	0	0	0
2.50 to <10.00		0 _	0	0	0	0	0
10.00 to <100.00		0	0	0	0	0	0
100.00 (Default)		0	0	0	0	0	00.04
Sub-total		0.77	0.0	45.00	2.5	0	88.81
Corporates		0.10	0.4	45.00			
0.00 to <0.15	5	0.16	0.1	45.00	2.5	2	38.78
0.15 to <0.25 0.25 to <0.50		0.26	0.0	45.00 45.00	2.5	15	53.09 72.01
	- - 7 -	0.49	0.0	45.00	2.5	5 7	90.46
0.50 to <0.75 0.75 to <2.50	25	2.03	0.0	45.00	2.5	18	71.74
2.50 to <10.00	2	4.29	0.0	45.00	2.5	2	99.11
10.00 to <100.00	0	19.61	0.0	45.00	2.5	0	218.35
100.00 (Default)		100.00	0.0	45.00	2.5	0	0
Sub-total	75	3.60	0.3	45.00	2.5	48	63.63
of which:		0.00	0.0	10.00	2.0		00.00
SMEs	_						
0.00 to <0.15		0.15	0.0	45.00	2.5	0	26.55
0.15 to <0.25	0	0.26	0.0	45.00	2.5	0	37.86
0.25 to <0.50	0	0.44	0.0	45.00	2.5	0	46.40
0.50 to <0.75	0	0.76	0.0	45.00	2.5	0	61.77
0.75 to <2.50	2	1.89	0.0	45.00	2.5	1	77.21
2.50 to <10.00	2	4.13	0.0	45.00	2.5	2	95.25
10.00 to <100.00	0	15.96	0.0	45.00	2.5	0	163.93
100.00 (Default)	0	100.00	0.0	45.00	2.5	0	0
Sub-total	6	2.32	0.1	45.00	2.5	4	71.41
Specialized Lending							
0.00 to <0.15	0	0	0	0	0	0	0
0.15 to <0.25	0	0	0	0	0	0	0
0.25 to <0.50	0	0	0	0	0	0	0
0.50 to <0.75	0	0	0	0	0	0	0
0.75 to <2.50	22	2.06	0.0	45.00	2.5	16	69.96
2.50 to <10.00	0	0	0	0	0	0	0
10.00 to <100.00		0	0	0	0	0	0
100.00 (Default)	2	100.00	0.0	45.00	2.5	0	0
Sub-total	24	9.50	0.0	45.00	2.5	16	64.65
Other				4= 00			
0.00 to <0.15	4	0.17	0.0	45.00	2.5	2	42.06
0.15 to <0.25		0.26	0.0	45.00	2.5	15	53.28
0.25 to <0.50	6	0.49	0.0	45.00	2.5	4	72.83
0.50 to <0.75	7	0.82	0.0	45.00	2.5	6	90.97
0.75 to <2.50		1.47	0.0	45.00	2.5	1	110.78
2.50 to <10.00		8.12	0.0	45.00	2.5	0	189.24
10.00 to <100.00		22.21	0.0	45.00	2.5	0	257.12
100.00 (Default)		100.00	0.0	45.00	2.5	0	62.13
Sub-total	46	0.66	0.2	45.00	2.5	28	62.13
Total	75	3.60	0.3	45.00	2.5	48	63.63

in € m.							Dec 31, 2021
(unless stated otherwise)	а	b	С	d	е	f	g
			Number of				Density of risk
Exposure class/		Average PD	obligors	Average LGD	Average maturity		weighted exposure
PD scale	Exposure value	(in %)	(in 1,000)	(in %)	(in years)	RWA	amounts
Central governments							
and central banks							
0.00 to <0.15		0	0	0	0	0	0
0.15 to <0.25		0 _	0	0	0 -	0	0
0.25 to <0.50		0 _	0	0	0 -	0	0
0.50 to <0.75		0 -	0	0	0 -	0	0
0.75 to <2.50		0	0	0	0	0	0
2.50 to <10.00		0	0	0	0 -	0	0
10.00 to <100.00		0 _	0	0	0 -	0	0
100.00 (Default)		0 -	0	0	0 -	0	0
Sub-total	0	0	0	0	0	0	0
Inatitutiona							
Institutions 0.00 to <0.15		0	0	0		0	0
0.00 to <0.15 0.15 to <0.25		0	0	0		0	0
0.15 to <0.25 0.25 to <0.50		0 -	0	0	0	0	0
		0.77			2.5		
0.50 to <0.75 0.75 to <2.50		0.77	0.0	45.00 0		0	88.81
		0 -	0	0	0	0	0
2.50 to <10.00		0 -	0	0	0	0	0
10.00 to <100.00							
100.00 (Default) Sub-total		0 77	0.0	0 45.00	2.5	0	0 00 04
Sub-total		0.77	0.0	45.00	2.5		88.81
Corporates							
0.00 to <0.15	26	0.13	0.1	45.00	2.5	9	35.73
0.00 to <0.15 0.15 to <0.25	96	0.13	0.1	45.00	2.5	50	52.55
			0.0		2.5	11	
0.25 to <0.50	40	0.43	0.0	45.00	2.5	35	66.78
0.50 to <0.75 0.75 to <2.50	112	2.05	0.0	45.00 45.00	2.5	88	87.95 78.30
			0.0		2.5	3	
2.50 to <10.00 10.00 to <100.00		7.53 14.39	0.0	45.00 45.00	2.5	3	178.09 167.61
100.00 (Default)	6	100.00	0.0	45.00	2.5	0	0
Sub-total ¹		2.97	0.3	45.00	2.5	199	66.62
of which:		2.51	0.5	43.00		199	00.02
SMEs	_						
0.00 to <0.15	2	0.16	0.0	45.00	2.5	1	27.28
0.15 to <0.25	4	0.16	0.0	45.00	2.5	1	35.70
0.25 to <0.50	_ -	0.43	0.0	45.00	2.5	1	46.20
0.50 to <0.75		0.77	0.0	45.00	2.5	1	58.29
0.75 to <2.50		2.07	0.0	45.00	2.5	2	79.54
2.50 to <10.00		6.64	0.0	45.00	2.5	0	121.17
10.00 to <100.00		14.41	0.0	45.00	2.5	2	152.56
100.00 (Default)	0	0	0.0	0	0	0	0
Sub-total		2.48	0.1	45.00	2.5	8	60.96
Specialized Lending		2.40	0.1	40.00			00.50
0.00 to <0.15	0	0	0	0	0	0	0
0.15 to <0.25		0	0	0		0	0
0.25 to <0.50		0	0	0	0	0	0
0.50 to <0.75		0	0	0	0	0	0
0.75 to <2.50	102	2.06	0.0	45.00	2.5	76	74.88
2.50 to <10.00	0	0	0	0	0	0	0
10.00 to <100.00		0	0	0		0	0
100.00 (Default)	4	100.00	0.0	45.00	2.5	0	0
Sub-total ¹	105	5.50	0.0	45.00	2.5	76	72.25
Other		0.00	0.0	40.00	2.0	70	12.20
0.00 to <0.15	24	0.13	0.0	45.00	2.5	9	36.50
0.15 to <0.25	92	0.13	0.0	45.00	2.5	49	53.26
0.25 to <0.50	15	0.43	0.0	45.00	2.5	10	68.50
0.50 to <0.75	39	0.43	0.0	45.00	2.5	35	88.81
0.75 to <2.50		2.00	0.0	45.00	2.5	10	120.88
2.50 to <10.00		7.63	0.0	45.00	2.5	2	184.39
10.00 to <100.00		14.29	0.0	45.00	2.5	1	231.41
		100.00	0.0	45.00	2.5	0	231.41
100.00 (Default) Sub-total		1.54	0.0	45.00	2.5	116	63.74
Oub total	102	1.04	0.2	-5.00	2.3	110	00.74
Total	299	2.97	0.3	45.00	2.5	199	66.62
. 3101	200	١٤.٦	0.0	- J.00	2.0	100	00.02

CCR exposures within the advanced IRBA

Article 452 (g) CRR

The following tables disclose Deutsche Bank's advanced IRBA counterparty credit risk exposures, i.e. derivatives and securities financing transactions, distributed on its internal rating scale for exposure classes central governments and central banks, institutions as well as corporates with its relevant subcategories. CVA charges or exposures cleared through a CCP are excluded.

Deutsche Bank discloses the exposure after CCF & CRM, where exposures covered by guarantees or credit derivatives are assigned to the protection seller.

The exposure after CCF & CRM is presented in conjunction with exposure-weighted average PD, LGD, and maturity as well as the RWA, the average risk weight (RW) and the number of obligors. The effect of double default, as far as applicable to exposures outside of former Postbank, is considered in the average RW. It implies that for a guaranteed exposure a loss only occurs if the primary obligor and the guarantor fail to meet their obligations at the same time. The tables provide the defaulted exposure separately, where Deutsche Bank applies an LGD estimate already incorporating potential unexpected losses in the loss rate estimate as required by Article 181 (1)(h) CRR.

EU CCR4 – AIRB approach – CCR exposures by portfolio and PD scale

Production Pro	EU CCR4 – AIRB app		, ou. oo o, po					Jun 30, 2022
Parameter Process Pr		а	b	С	d	е	f	g
Exposure class/ Exposure value (in-ft)								Density of risk
Central governments and central banks		Exposure value		obligors			RWA	weighted exposure amounts
100 10 10 10 10 10 10 1				(//		()		
15 to -0.25	and central banks							
0.25 to 0.50								1.97
Solit 0-0.75								42.35
175 to 250								53.48
2501 to 10.00								73.09
10.00 to < 100.00								116.52
								29.06
Institutions				_				0
Institutions				_				5.70
0.00 to 0.015	Sub-total	14,510	0.10	0.1	41.03	0.0	021	5.70
0.15 to -0.25	Institutions							
0.25 to 0.50								16.35
0.50 to 0.75								38.31
0.75 to ∠50 0 1,572 1.79 0.0 16.94 1.6 722 45.5 to <10.00 339 348 0.0 1348 0.9 172 50.1 10.00 to <100.00								89.64
2.50 to <10.00								86.88
10.00 to -100.00								45.93
100.00 (Default)								50.86
Sub-total 16,314 0.33 0.5 38.35 1.1 4,048 24. Corporates 0.00 to -0.15 58,188 0.05 35.58 1.2 6,981 12. 0.15 to <0.25								
Corporates Co								0
0.00 to 0.0 15	Sub-total		0.33	0.5	36.33		4,046	24.01
0.15 to <0.25	Corporates							
0.25 to <0.50	0.00 to <0.15	58,188	0.05	8.2	35.58	1.2	6,981	12.00
0.50 to <0.75					43.20		1,584	52.06
0.75 to < 2.50								75.66
2.50 to <10.00								100.75
10.00 to <100.00								60.06
100.00 (Default)								133.22
Sub-total of which: 72,402 0.35 12.9 36.73 1.3 17,447 24. of which: SMEs								276.45
of which: SMEs 0.00 to <0.15 3,456 0.04 0.4 32.02 0.4 148 4. 0.15 to <0.25								101.85
SMEs 0.00 to <0.15 3,456 0.04 0.4 32.02 0.4 148 4. 0.15 to <0.25		72,402	0.35	12.9	36.73	1.3	17,447	24.10
0.00 to <0.15 3,456 0.04 0.4 32.02 0.4 148 4. 0.15 to <0.25		_						
0.15 to <0.25 78 0.24 0.1 49.67 1.9 33 42 0.25 to <0.50		3.456	0.04	0.4	32.02	0.4	148	4.30
0.25 to <0.50 103 0.41 0.1 80.90 2.8 94 91 0.50 to <0.75								42.36
0.50 to <0.75 204 0.64 0.1 76.10 1.9 226 111. 0.75 to <2.50								91.17
2.50 to <10.00 111 4.11 0.2 65.24 2.1 152 136. 10.00 to <100.00	0.50 to <0.75	204	0.64	0.1	76.10	1.9	226	111.09
10.00 to <100.00 2	0.75 to <2.50	233	1.43	0.3	94.93	1.6	235	100.65
100.00 (Default) 3 100.00 0.0 76.61 1.1 5 193. Sub-total 4,190 0.34 1.2 40.12 0.7 898 21. Specialized Lending	2.50 to <10.00	111	4.11	0.2	65.24	2.1	152	136.49
Sub-total 4,190 0.34 1.2 40.12 0.7 898 21. Specialized Lending 0.00 to <0.15	10.00 to <100.00	2	14.01	0.0	63.31	1.5	5	196.20
Specialized Lending	100.00 (Default)	3	100.00	0.0	76.61	1.1	5	193.67
0.00 to <0.15 251 0.08 0.0 19.41 4.5 43 17. 0.15 to <0.25		4,190	0.34	1.2	40.12	0.7	898	21.43
0.15 to <0.25 73 0.23 0.0 37.96 4.0 41 55. 0.25 to <0.50								
0.25 to <0.50 10 0.39 0.0 36.81 3.5 6 58. 0.50 to <0.75				_				17.32
0.50 to <0.75 18 0.64 0.0 54.30 4.0 23 124. 0.75 to <2.50								55.67
0.75 to <2.50 80 1.55 0.0 33.62 3.6 60 75. 2.50 to <10.00								58.44
2.50 to <10.00 129 3.00 0.0 16.62 5.0 81 63 10.00 to <100.00								124.51
10.00 to <100.00 1 22.02 0.0 59.69 3.0 4 342. 100.00 (Default) 18 100.00 0.0 29.50 4.9 11 61. Sub-total 580 4.13 0.1 24.89 4.4 269 46. Other 0.00 to <0.15 54,481 0.05 7.8 35.88 1.2 6,789 12. 0.15 to <0.25 2,891 0.24 1.1 43.16 2.3 1,510 52. 0.25 to <0.50 2,461 0.41 0.8 56.23 1.6 1,848 75. 0.50 to <0.75 1,924 0.66 0.7 51.81 2.0 1,913 99. 0.75 to <2.50 5,000 1.24 0.8 23.68 1.5 2,896 57. 2.50 to <10.00 760 3.90 0.3 47.21 2.3 1,099 144. 10.00 to <100.00 58 20.37 0.0 52.42 1.8 161 278.				_				
100.00 (Default) 18 100.00 0.0 29.50 4.9 11 61. Sub-total 580 4.13 0.1 24.89 4.4 269 46. Other 0.00 to <0.15 54,481 0.05 7.8 35.88 1.2 6,789 12. 0.15 to <0.25 2,891 0.24 1.1 43.16 2.3 1,510 52. 0.25 to <0.50 2,461 0.41 0.8 56.23 1.6 1,848 75. 0.50 to <0.75 1,924 0.66 0.7 51.81 2.0 1,913 99. 0.75 to <2.50 5,000 1.24 0.8 23.68 1.5 2,896 57. 2.50 to <10.00 760 3.90 0.3 47.21 2.3 1,099 144. 10.00 to <100.00 58 20.37 0.0 52.42 1.8 161 278. 100.00 (Default) 57 100.00 0.0 34.00 3.6 63 110. <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td>				_				
Sub-total 580 4.13 0.1 24.89 4.4 269 46. Other 0.00 to <0.15								61.24
Other 0.00 to <0.15 54,481 0.05 7.8 35.88 1.2 6,789 12. 0.15 to <0.25				_				46.37
0.15 to <0.25 2,891 0.24 1.1 43.16 2.3 1,510 52. 0.25 to <0.50				0.1	21.00		200	10.01
0.15 to <0.25 2,891 0.24 1.1 43.16 2.3 1,510 52. 0.25 to <0.50		54,481	0.05	7.8	35.88	1.2	6,789	12.46
0.25 to <0.50 2,461 0.41 0.8 56.23 1.6 1,848 75. 0.50 to <0.75								52.23
0.75 to <2.50 5,000 1.24 0.8 23.68 1.5 2,896 57. 2.50 to <10.00				_				75.09
2.50 to <10.00 760 3.90 0.3 47.21 2.3 1,099 144. 10.00 to <100.00	0.50 to <0.75	1,924	0.66	0.7	51.81	2.0	1,913	99.43
10.00 to <100.00 58 20.37 0.0 52.42 1.8 161 278. 100.00 (Default) 57 100.00 0.0 34.00 3.6 63 110.	0.75 to <2.50	5,000	1.24	0.8	23.68	1.5	2,896	57.92
100.00 (Default) 57 100.00 0.0 34.00 3.6 63 110.	2.50 to <10.00	760	3.90	0.3	47.21	2.3	1,099	144.62
								278.53
Sub-total 67,632 0.32 11.5 36.63 1.3 16,280 24.								110.66
	Sub-total	67,632	0.32	11.5	36.63	1.3	16,280	24.07

							Jun 30, 2022
in € m. (unless stated otherwise)	а	b	С	d	e	f	g
Exposure class/		Average PD	Number of obligors	Average LGD	Average maturity		Density of risk weighted exposure
PD scale	Exposure value	(in %)	(in 1,000)	(in %)	(in years)	RWA	amounts
Retail							
0.00 to <0.15	9	0.07	0.3	56.71	1.9	1	10.77
0.15 to <0.25	4	0.23	0.1	55.77	1.1	1	26.37
0.25 to <0.50	1	0.39	0.1	71.10	3.2	1	41.02
0.50 to <0.75		0.64	0.1	75.91	1.4	2	62.65
0.75 to <2.50	5	1.39	0.1	78.76	1.7	4	87.40
2.50 to <10.00 10.00 to <100.00	<u>8</u> 1	4.86 47.38	0.1	81.61 82.50	1.2	10	117.53
100.00 (Default)	0	100.00	0.0	15.40	1.1	0	134.35 192.55
Sub-total	31	3.63	0.7	69.70	1.6	20	63.40
of which:							
Secured by real estate							
property SMEs							
0.00 to <0.15	0	0	0	0	0	0	0
0.15 to <0.25	0	0	0	0	0	0	0
0.25 to <0.50	0	0	0	0	0	0	0
0.50 to <0.75	0	0	0	0	0	0	0
0.75 to <2.50	0	0	0	0	0	0	0
2.50 to <10.00	0	0	0	0	0	0	0
10.00 to <100.00	0	0 _	0	0	0	0	0
100.00 (Default)	0	0 -	0	0	0	0	0
Sub-total	0	0	0	0	0	0	0
Secured by real estate							
property non-SMEs							
0.00 to <0.15	0	0	0	0	0	0	0
0.15 to <0.25	0	0	0	0	0	0	0
0.25 to <0.50	0	0	0	0	0	0	0
0.50 to <0.75	0	0	0	0	0	0	0
0.75 to <2.50		0	0	0	0	0	0
2.50 to <10.00	0 0	0 0	0	0	0 0	0	0
10.00 to <100.00 100.00 (Default)	0	0	0	0	0	0	0
Sub-total			0	0		0	
0 111 1 1 1 1			,		·		
Qualifying Revolving		0	0	0		0	0
0.00 to <0.15 0.15 to <0.25	0	0	0	0	0	0	0
0.25 to <0.50	0	0	0	0	0	0	0
0.50 to <0.75	0	0	0	0	0	0	0
0.75 to <2.50	0	0	0	0	0	0	0
2.50 to <10.00	0	0	0	0	0	0	0
10.00 to <100.00	0	0	0	0	0	0	0
100.00 (Default)	0	0	0	0	0	0	0
Sub-total	0	0	0	0	0	0	0
Other retail SMEs							
0.00 to <0.15	1	0.07	0.0	63.35	1.0	0	10.23
0.15 to <0.25	0	0.23	0.0	56.98	1.0	0	20.47
0.25 to <0.50	1	0.39	0.0	77.41	1.1	0	38.90
0.50 to <0.75	1	0.64	0.0	76.27	0.9	0	50.66
0.75 to <2.50	2	1.20	0.0	80.57	1.1	1	70.32
2.50 to <10.00	3	5.11	0.0	81.96	1.2	2	97.76
10.00 to <100.00 100.00 (Default)	0 0	26.00 100.00	0.0	82.50 5.00	1.3	0	158.56 62.50
Sub-total	7	3.36	0.0	77.23	1.1	5	68.37
Other retail non-SMEs							
0.00 to <0.15	8	0.07	0.3	55.69	2.0	1	10.86
0.15 to <0.25 0.25 to <0.50	4	0.23	0.0	55.75	1.1 5.2	1 0	26.47
0.25 to <0.50 0.50 to <0.75		0.39	0.0	65.22 75.80	1.5	1	43.01 66.09
0.75 to <2.50	3	1.48	0.1	77.82	2.1	3	96.26
2.50 to <10.00	6	4.75	0.1	81.46	1.2	7	126.24

							Jun 30, 2022
in € m. (unless stated otherwise)	a	b	С	d	e	f	g
Exposure class/ PD scale	Exposure value	Average PD (in %)	Number of obligors (in 1,000)	Average LGD (in %)	Average maturity (in years)	RWA	Density of risk weighted exposure amounts
10.00 to <100.00	1	53.84	0.0	82.50	1.0	1	127.03
100.00 (Default)	0	100.00	0.0	16.50	1.1	0	206.25
Sub-total	24	3.71	0.5	67.54	1.7	15	61.98
Total (all exposure classes)	103,257	0.32	14.2	37.61	1.2	22,342	21.64

Description Exposure value Cin % Central governments Cen	Average LGD (in %)	0.7 4.9 1.0 3.1 3.8 2.8	233 33 218 10 187 542 0 0 1,222	3.33 45.24 55.02 73.35 109.05 69.00 0
Exposure value	0.1 41.71 0.0 27.25 0.0 49.92 0.0 39.27 0.0 41.05 0.0 22.32 0 0 0 0 0 0 1 40.15 0.8 38.94 0.0 36.35 0.0 49.54 0.0 20.30 0.0 20.34 0.0 8.56 0.0 45.00	(in years) 0.7 4.9 1.0 3.1 3.8 2.8 0 1.0 1.0	233 33 218 10 187 542 0 0 1,222	(in %) 3.33 45.24 55.02 73.35 109.05 69.00 0 14.47
and central banks 0.00 to <0.15 0.15 to <0.25 0.23 0.25 to <0.50 0.50 to <0.75 13 0.64 0.75 to <2.50 10.00 to <10.00 100.00 (Default) 0.00 to <0.15 18,479 0.05 0.25 to <0.50 0.25 to <0.50 0.25 to <0.50 0.39 0.50 to <0.75 13 0.64 0.75 to <2.50 171 1.38 2.50 to <10.00 0 0 0 100.00 (Default) 0 0 Sub-total 18,479 0.06 0.15 to <0.25 0.25 to <0.50 0.344 0.41 0.50 to <0.75 1,108 0.67 0.75 to <2.50 2.50 to <10.00 512 3.29 10.00 to <100.00 25 14.74 100.00 (Default) 0 0 Sub-total 22,121 0.28 Corporates 0.00 to <0.15 42,934 0.05 0.15 to <0.25 3,140 0.24 0.25 to <0.50 2,494 0.40 0.50 to <0.75 2,621 0.66 0.75 to <2.50 8,127 1.60 2.50 to <10.00 1,272 4.26	0.1 41.71 0.0 27.25 0.0 49.92 0.0 39.27 0.0 41.05 0.0 22.32 0 0 0 0 1 40.15 0.8 38.94 0.0 36.35 0.0 49.54 0.0 20.30 0.0 20.34 0.0 8.56 0.0 45.00	0.7 4.9 1.0 3.1 3.8 2.8 0 0 1.0	33 218 10 187 542 0 0 1,222	3.33 45.24 55.02 73.35 109.05 69.00 0
0.00 to <0.15	0.0 27.25 0.0 49.92 0.0 39.27 0.0 41.05 0.0 22.32 0 0 0.1 40.15 0.8 38.94 0.0 36.35 0.0 49.54 0.0 20.30 0.0 20.34 0.0 8.56 0.0 45.00	4.9 1.0 3.1 3.8 2.8 0 0 1.0	33 218 10 187 542 0 0 1,222	45.24 55.02 73.35 109.05 69.00 0 0
0.15 to <0.25	0.0 27.25 0.0 49.92 0.0 39.27 0.0 41.05 0.0 22.32 0 0 0.1 40.15 0.8 38.94 0.0 36.35 0.0 49.54 0.0 20.30 0.0 20.34 0.0 8.56 0.0 45.00	4.9 1.0 3.1 3.8 2.8 0 0 1.0	33 218 10 187 542 0 0 1,222	45.24 55.02 73.35 109.05 69.00 0 14.47
0.25 to <0.50	0.0 49.92 0.0 39.27 0.0 41.05 0.0 22.32 0 0 0.1 40.15 0.8 38.94 0.0 36.35 0.0 49.54 0.0 20.30 0.0 20.34 0.0 8.56 0.0 45.00	1.0 3.1 3.8 2.8 0 0 1.0	218 10 187 542 0 0 1,222	55.02 73.35 109.05 69.00 0 0
0.50 to <0.75	0.0 39.27 0.0 41.05 0.0 22.32 0 0 0.1 40.15 0.8 38.94 0.0 36.35 0.0 49.54 0.0 20.30 0.0 20.34 0.0 8.56 0.0 45.00	3.1 3.8 2.8 0 0 1.0	10 187 542 0 0 1,222	73.35 109.05 69.00 0 0 14.47
0.75 to <2.50	0.0 41.05 0.0 22.32 0 0 0 0 0.1 40.15 0.8 38.94 0.0 36.35 0.0 49.54 0.0 20.30 0.0 20.34 0.0 8.56 0.0 45.00	3.8 2.8 0 0 1.0	187 542 0 0 1,222	109.05 69.00 0 0 14.47
2.50 to <10.00	0.0 22.32 0 0 0 0 0.1 40.15 0.8 38.94 0.0 36.35 0.0 49.54 0.0 20.30 0.0 20.34 0.0 8.56 0.0 45.00	2.8 0 0 1.0	542 0 0 1,222	69.00 0 0 14.47
10.00 to <100.00	0 0 0 0 0 0 0.1 40.15 0.8 38.94 0.0 36.35 0.0 49.54 0.0 20.30 0.0 20.34 0.0 8.56 0.0 45.00	1.0 1.0	0 0 1,222	0 0 14.47
Sub-total 8,445 0.34 Institutions 0.00 to <0.15	0.1 40.15 0.8 38.94 0.0 36.35 0.0 49.54 0.0 20.30 0.0 20.34 0.0 8.56 0.0 45.00	1.0 1.0 1.8	2,684	14.47
Institutions 0.00 to <0.15 18,479 0.06 0.15 to <0.25	0.8 38.94 0.0 36.35 0.0 49.54 0.0 20.30 0.0 20.34 0.0 8.56 0.0 45.00	1.0	2,684	
0.00 to <0.15	0.0 36.35 0.0 49.54 0.0 20.30 0.0 20.34 0.0 8.56 0.0 45.00	1.8		14.50
0.00 to <0.15	0.0 36.35 0.0 49.54 0.0 20.30 0.0 20.34 0.0 8.56 0.0 45.00	1.8		1/1 50
0.15 to <0.25	0.0 36.35 0.0 49.54 0.0 20.30 0.0 20.34 0.0 8.56 0.0 45.00	1.8		11 50
0.25 to <0.50	0.0 49.54 0.0 20.30 0.0 20.34 0.0 8.56 0.0 45.00		346	
0.50 to <0.75	0.0 20.30 0.0 20.34 0.0 8.56 0.0 45.00	2.8		50.02
0.75 to <2.50	0.0 20.34 0.0 8.56 0.0 45.00		315	91.50
2.50 to <10.00	0.0 8.56 0.0 45.00	1.3	463	41.74
10.00 to <100.00	0.0 45.00	0.6	414	43.04
100.00 (Default) 0 0 Sub-total 22,121 0.28 Corporates 0.00 to <0.15 42,934 0.05 0.15 to <0.25 3,140 0.24 0.25 to <0.50 2,494 0.40 0.50 to <0.75 2,621 0.66 0.75 to <2.50 8,127 1.60 2.50 to <10.00 1,272 4.26		0.5	166	32.38 238.75
Sub-total 22,121 0.28 Corporates 0.00 to <0.15	0 0			238.75
Corporates 0.00 to <0.15	0.9 36.10	1.0	4,446	20.10
0.00 to <0.15	0.9 30.10		4,440	20.10
0.15 to <0.25				
0.25 to <0.50	8.0 36.39	1.3	5,539	12.90
0.50 to <0.75	1.1 47.04	2.3	1,798	57.26
0.75 to <2.50	0.7 50.27	1.8	1,802	72.25
2.50 to <10.00 1,272 4.26	0.9 51.00	2.5	2,398	91.48
	1.1 20.75	1.6	4,053	49.87
10.00 to ±100.00	0.5 39.00	2.8	1,378	108.29
10.00 to <100.00 65 21.16	0.1 42.85	1.9	137	209.57
100.00 (Default) 118 100.00	0.1 17.45	3.9	115	97.47
<u>Sub-total</u> 60,771 0.61	2.4 36.09	1.5	17,220	28.34
of which:				
SMEs				
0.00 to <0.15 2,283 0.04	0.6 32.94	1.4	193	8.45
0.15 to <0.25 98 0.24	0.1 47.78	2.4	46	46.41
0.25 to <0.50 147 0.40	0.1 75.65	1.9	111	75.91
0.50 to <0.75 408 0.65	0.2 63.12	2.5	442	108.35
0.75 to <2.50 247 1.23	0.3 51.23	2.2	233	94.62
2.50 to <10.00 84 4.22 10.00 to <100.00 4 17.13	0.1 41.49 0.0 41.97	3.7 4.7	7	98.44 177.53
10.00 to <100.00 4 17.13 100.00 (Default) 5 100.00	0.0 41.97 0.0 51.89	3.3	3	72.18
Sub-total 3,274 0.50	1.4 40.69	1.7	1,117	34.12
Specialized Lending	1.4 40.00			O4.12
0.00 to <0.15 97 0.08	0.0 34.36	4.2	26	27.02
0.15 to <0.25 48 0.23	0.0 54.96	3.8	35	72.57
0.25 to <0.50 24 0.39	0.0 45.03	3.4	18	73.10
0.50 to <0.75 57 0.64	0.0 48.61	3.2	57	98.86
0.75 to <2.50 98 1.59	0.0 33.61	4.2	92	93.49
2.50 to <10.00 282 3.03	0.0 17.17	4.8	177	62.87
10.00 to <100.00 4 20.03	0.0 52.91	2.3	13	289.54
100.00 (Default) 34 100.00	0.0 24.28	4.7	20	60.39
Sub-total 645 7.06	0.1 29.52	4.3	437	67.87
Other				
0.00 to <0.15 40,554 0.05	7.3 36.58	1.3	5,320	13.12
0.15 to <0.25 2,994 0.24	0.9 46.89	2.3	1,718	57.37
0.25 to <0.50 2,323 0.40	0.6 48.72	1.7	1,673	72.01
0.50 to <0.75 2,156 0.66	0.7 48.77	2.4	1,900	88.10
0.75 to <2.50 7,782 1.61	0.8 19.62	1.5	3,728	47.90
2.50 to <10.00 907 4.65	0.4 45.55	2.1	1,118	123.30
10.00 to <100.00 57 21.50	0.0 42.13	1.7	118	205.42
100.00 (Default) 79 100.00	0.0 12.41	3.5	91	114.91
Sub-total 56,852 0.54	110 25.00	1.4	45 005	
Retail	0.8 35.90	1.4	15,665	27.55
0.00 to <0.15 7 0.08	0.0 35.90	1.4	15,665	
1 0.00	0.2 56.48	2.7	15,665	

Exposure class/ PD scale Exposure Co.15 to <0.25 Co.25 to <0.50 Co.50 Co.50 Co.50 to <0.75 Co.75 to <2.50 Co.50 to <10.00 Co.75 Co.75 Co.75 to <0.75 to <0.00 Co.75 Co.75 Co.75 to <0.00 Co.75 Co.75 Co.75 to <0.00 Co.75 Co.75 Co.75 Co.75 to <0.05 Co.75 Co.75 Co.75 Co.75 to <0.00 Co.75 Co.75 Co.75 to <0.00 Co.75 Co.75 Co.75 Co.75 to <0.00 Co.75 Co.75 Co.75 to <0.05 Co.75 Co.75 Co.75 to <0.05 Co.75 Co.75 Co.75 to <0.05 Co.75 Co.75 Co.75 to <0.25 Co.75 Co.75 Co.75 Co.75 to <0.75 Co.75 to <0.75 Co.75 Co.75 Co.75 Co.75 to <0.75 Co.75 to <0.75 Co.75 Co.75 Co.75 Co.75 Co.75 to <0.00 Co.75 Co.75 Co.75 Co.75 Co.75 to <0.05 Co.75 Co.75 Co.75 Co.75 Co.75 Co.75 to <0.05 Co.75 Co.7	a value 3 6 4 16 4 1 0 0 0 0 0 0 0 0 0	Description of the control of the co	C Number of obligors (in 1,000) 0.0 0.1 0.1 0.2 0.1 0.0 0.0 0.0	0 Average LGD (in %) 60.95 62.14 73.57 77.06 73.40 81.19 6.11 69.28	Average maturity (in years) 2.0 3.7 2.3 2.2 2.7 0.8 1.0 2.5 0 0 0 0 0 0 0 0 0	RWA 1 2 2 13 4 1 0 24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Average RW (in %) 28.13 37.12 60.62 82.51 97.66 170.72 76.34 60.08
PD scale 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 100.00 (Default) Sub-total of which: Secured by real estate property SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 (Default) Sub-total Sub-total Sub-total Secured by real estate property SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 (Default) Sub-total Secured by real estate property non-SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 10.00 to <100.00 10.00 to <100.00 10.00 to <100.00 10.00 to <15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Other retail SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.50	3 6 4 16 4 1 0 41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(in %) 0.23 0.39 0.64 1.39 4.68 26.95 100.00 1.66	(in 1,000) 0.0 0.1 0.1 0.2 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 0 0 0	(in %) 60.95 62.14 73.57 77.06 73.40 81.19 6.11 69.28	(in years) 2.0 3.7 2.3 2.2 2.7 0.8 1.0 2.5	1 2 2 13 4 1 0 24 0 0 0 0 0 0 0 0 0 0 0	(in %) 28.13 37.12 60.62 82.51 97.66 170.72 76.34 60.08
0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 10.00 (Default) Sub-total of which: Secured by real estate property SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <10.00 10.00 (Default) Sub-total of voice	3 6 4 16 4 1 0 41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.23 0.39 0.64 1.39 4.68 26.95 100.00 1.66	0.0 0.1 0.1 0.2 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0 0 0 0 0 0	60.95 62.14 73.57 77.06 73.40 81.19 6.11 69.28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.0 3.7 2.3 2.2 2.7 0.8 1.0 2.5	1 2 2 13 4 1 0 24 0 0 0 0 0 0 0 0 0 0	28.13 37.12 60.62 82.51 97.66 170.72 76.34 60.08
0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total of which: Secured by real estate property SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 100.00 (Default) Sub-total Secured by real estate property SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 (Default) Sub-total Secured by real estate property non-SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 10.00 (Default) Sub-total Qualifying Revolving 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 10.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <0.15 0.75 to <2.50 2.50 to <10.00 10.00 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Other retail SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.25 to <0.50	6 4 16 4 1 0 41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.64 1.39 4.68 26.95 100.00 1.66	0.1 0.2 0.1 0.0 0.0 0.0 0.6	73.57 77.06 73.40 81.19 6.11 69.28 0 0 0 0 0 0 0 0 0 0 0 0 0	3.7 2.3 2.2 2.7 0.8 1.0 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0	2 13 4 1 0 24 0 0 0 0 0 0 0 0 0 0 0	37.12 60.62 82.51 97.66 170.72 76.34 60.08
0.75 to <2.50 2.50 to <10.00 10.00 to <10.00 10.00 (Default) Sub-total of which: Secured by real estate property SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <10.00 10.00 to <0.15 0.15 to <0.25 0.25 to <10.00 10.00 (Default) Sub-total Secured by real estate property non-SMEs 0.00 to <15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 10.00 to <100.00 10.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 0.50 to <0.75	16 4 1 0 41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.39 4.68 26.95 100.00 1.66	0.2 0.1 0.0 0.0 0.6 0 0 0 0 0 0 0 0 0 0 0 0 0	77.06 73.40 81.19 6.11 69.28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.2 2.7 0.8 1.0 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0	13 4 1 0 24 0 0 0 0 0 0 0 0 0 0 0 0 0	82.51 97.66 170.72 76.34 60.08 0 0 0 0 0 0 0 0 0 0 0 0 0
2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total of which: Secured by real estate property SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <10.00 10.00 to <10.00 10.00 to <10.00 Sub-total Secured by real estate property on-SMEs 0.00 to <10.00 10.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 (Default) Sub-total Secured by real estate property non-SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Qualifying Revolving 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.15 0.15 to <0.25 0.25 to <0.50	4 1 0 41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4.68 26.95 100.00 1.66	0.1 0.0 0.0 0.6	73.40 81.19 6.11 69.28	2.7 0.8 1.0 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0	4 1 0 24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	97.66 170.72 76.34 60.08
10.00 to <100.00 100.00 (Default) Sub-total of which: Secured by real estate property SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <10.00 10.00 to <100.00 10.00 (Default) Sub-total Secured by real estate property non-SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 10.00 to <100.00 10.00 to <100.00 10.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 10.00 to <100.00 10.00 to <100.00 10.00 to <100.00 10.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.15 0.15 to <0.25 0.25 to <0.50	0 41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	26.95 100.00 1.66	0.0 0.0 0.6	81.19 6.11 69.28 0 0 0 0 0 0 0 0 0 0 0	0.8 1.0 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 24 0 0 0 0 0 0 0 0 0 0 0	170.72 76.34 60.08
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Sub-total of which: Secured by real estate property SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 10.00 (Default) Sub-total Secured by real estate property non-SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 (Default) Sub-total Secured by real estate property non-SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Qualifying Revolving 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Other retail SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.50	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	69.28 0 0 0 0 0 0 0 0 0 0 0 0 0	2.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	60.08 0 0 0 0 0 0 0 0 0 0 0 0 0
of which: Secured by real estate property SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 10.00 (Default) Sub-total Qualifying Revolving 0.00 to <0.15 0.15 to <0.25 0.25 to <10.00 10.00 (Default) Sub-total Qualifying Revolving 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 (Default) Sub-total Qualifying Revolving 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 (Default) Sub-total Qualifying Revolving 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Other retail SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.50	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0
Secured by real estate property SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 10.00 (Default) Sub-total Secured by real estate property non-SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <10.00 10.00 to <100.00 10.00 to <100.00 10.00 to <100.00 10.01 to <100.00 10.00 to <100.00 10.00 to <100.00 10.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 10.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.15 0.15 to <0.25 0.25 to <0.25 0.25 to <0.50 0.50 to <0.15	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
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Secured by real estate property non-SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Qualifying Revolving 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <0.15 0.15 to <0.25 0.25 to <10.00 10.00 to <100.00 10.00 to <100.00 10.00 (Default) Sub-total Other retail SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0
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0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Qualifying Revolving 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 (Default) Sub-total Olimits of to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Other retail SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.50	0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
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2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Qualifying Revolving 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Other retail SMEs 0.01 to <0.25 0.25 to <0.25 0.25 to <0.50	0	0	0				0
10.00 to <100.00 100.00 (Default) Sub-total Qualifying Revolving 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Other retail SMEs 0.01 to <0.25 0.25 to <0.25	0			0		0	
100.00 (Default) Sub-total Qualifying Revolving 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Other retail SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50		0	^		0	0	0
Sub-total Qualifying Revolving 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Other retail SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50	0		0	0	0	0	0
Qualifying Revolving 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Other retail SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50		0	0	0	0	0	0
0.00 to <0.15 0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Other retail SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50	0	0	0	0	0	0	0
0.15 to <0.25 0.25 to <0.50 0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Other retail SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50							
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0.50 to <0.75 0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Other retail SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50	0	0 -	0	0	0	0	0
0.75 to <2.50 2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Other retail SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50	0	0	0	0	0	0	0
2.50 to <10.00 10.00 to <100.00 100.00 (Default) Sub-total Other retail SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50	0 -	0 0	0	0	0 0	0 0	0
10.00 to <100.00 100.00 (Default) Sub-total Other retail SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50	0 -	0 -	0	0		0	0
100.00 (Default) Sub-total Other retail SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50	0 -	0 -	0	0	0	0	0
Sub-total Other retail SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50	0 -	0	0	0	0	0	0
Other retail SMEs 0.00 to <0.15 0.15 to <0.25 0.25 to <0.50	0 -	0	0	0	0	0	0
0.00 to <0.15 0.15 to <0.25 0.25 to <0.50							0
0.15 to <0.25 0.25 to <0.50	1	0.08	0.0	62.01	1.2	0	10.76
0.25 to <0.50	0	0.23	0.0	67.10	1.3	0	24.16
	2	0.40	0.0	70.55	3.3	1	35.72
	1	0.65	0.0	73.88	1.5	0	49.20
0.75 to <2.50	7	1.33	0.1	76.36	2.2	5	68.64
2.50 to <10.00	2	4.97	0.0	74.70	1.8	2	88.18
10.00 to <100.00	0	27.55	0.0	80.41	0.7	1	159.13
100.00 (Default)	0	100.00	0.0	6.11	1.0	0	76.34
Sub-total	14	2.62	0.2	74.34	2.1	9	65.53
Other retail non-SMEs							
0.00 to <0.15	7	0.08	0.2	56.07	2.8	1	11.80
0.15 to <0.25	3	0.23	0.0	60.25	2.1	1	28.59
0.25 to <0.50	4	0.39	0.0	57.42	3.9	1	37.90
0.50 to <0.75	3	0.64	0.0	73.47	2.6	2	64.08
0.75 to <2.50	8	1.45	0.1	77.70	2.2	8	95.04
2.50 to <10.00	2	4.30	0.0	71.70	4.0	2	110.08
10.00 to <100.00	0	25.96	0.0	82.50	1.0	0	190.07
100.00 (Default)	0	0 -	0	0	0	0	0
Sub-total	27	1.15	0.5	66.60	2.7	15	57.19
Total (all ave a zero							
Total (all exposure classes) 91		0.51	14.0	36.48	1.3	22,912	25.07

CCR exposures after credit risk mitigation

Article 439 (e) CRR

The following table presents information on Deutsche Bank's counterparty credit risk (CCR) exposure and the composition of collateral used in both derivatives transactions and securities financing transactions (SFTs).

Table EU CCR5 discloses a breakdown of all types of collateral posted or received to support or reduce CCR exposures related to derivatives and SFTs. For SFTs, collateral refers to both legs of the transaction as collateral received and collateral posted.

EU CCR5 - Composition of collateral for exposures to CCR

								Jun 30, 2022	
	а	b	С	d	е	f	g	h	
		Collate	ral used in deriva	tive transactions			Collate	ral used in SFTs	
	Fair value of co	ollateral received	Fair value of	posted collateral	Fair value of co	ollateral received	Fair value of posted collateral		
in € m.	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated	
Cash – domestic currency	1	43,340	0	35,868	1,016	77,580	0	85,449	
Cash – other currencies	751	46,418	2	31,134	12,821	149,444	0	195,196	
Domestic sovereign debt	110	228	0	2,101	7	4,248	4	1,175	
Other Sovereign debt	0	0	0	0	23	4,572	23	8,962	
Government agency debt	0	0	0	0	0	0	0	0	
Corporate bonds	1,131	19,851	0	6,979	1,491	242,618	2,744	244,462	
Equity securities	0	3,191	0	0	659	66,364	23,508	24,965	
Other collateral	5,302	3,220	5,390	4,673	0	7,230	0	3,865	
Total	7,295	116,247	5,392	80,755	16,019	552,056	26,279	564,075	

								Dec 31, 2021
	а	b	С	d	е	f	g	h
		Collate	ral used in deriva	tive transactions			Collate	ral used in SFTs
	Fair value of co	ollateral received	Fair value of	posted collateral	Fair value of co	ollateral received	Fair value of	posted collateral
in € m.	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated
Cash – domestic currency	1	36,828	0	29,533	2,108	54,346	0	69,195
Cash – other currencies	587	32,587	5	22,196	14,769	143,807	0	177,959
Domestic sovereign debt	128	180	0	2,318	13	2,617	0	805
Other Sovereign debt	0	0	0	0	6	4,186	8	3,596
Government agency debt	0	0	0	0	0	0	0	0
Corporate bonds	1,179	15,132	0	7,374	405	212,772	6,590	207,954
Equity securities	1	3,374	0	0	232	57,636	19,048	30,834
Other collateral	5,086	1,240	5,258	2,834	6	5,804	0	3,440
Total	6,982	89,341	5,264	64,255	17,539	481,168	25,646	493,783

Credit derivatives exposures

Article 439 (j) CRR

The table below discloses the exposure of the credit derivative transactions split into protection bought and sold, as well as a split into product types.

EU CCR6 - Credit derivatives exposures

		Jun 30, 2022		Dec 31, 2021 ¹
	a	b	а	b
	Protection	Protection	Protection	Protection
<u>in</u> € m.	bought	sold	bought	sold
Notionals				
Single-name credit default swaps	10,059	400	9,749	199
Index credit default swaps	848	2	6	2
Total return swaps	2,060	0	2,815	0
Credit options	1,359	200	2,561	0
Other credit derivatives	636,723	612,661	529,947	491,109
Total notionals	651,049	613,263	545,078	491,309
Fair values				
Positive fair value (asset)	7,689	2,612	1,639	13,964
Negative fair value (liability)	(2,415)	(6,495)	(15,632)	(1,192)

¹ Comparatives aligned to current presentation.

Exposure to securitization positions

Banking and trading book securitization exposures

Article 449 (j) CRR

The amounts reported in the following two tables provide details of the Group's securitization exposures separately for the regulatory non-trading and trading book. The details of the Group's trading book securitization positions subject to the market risk standardized approach (MRSA) are included in this chapter.

The table EU SEC1 details the total non-trading book securitization exposure split by exposure type that the Group has securitized in its capacity as either originator or sponsor and finally positions which have been purchased through investment activities as investor. Each table provides a break-down by traditional and synthetic as well as simple transparent and standardized ('simple, transparent and standardised securitisation' or 'STS securitisation' means a securitisation that meets the requirements set out in Article 18 of Regulation (EU) 2017/2402) and non-STS securitization transactions. The originator and sponsor columns (a-k) also contain retained positions, even where the Group does do not achieve significant risk transfer (SRT) and shows the current retention of its contribution to the originated or sponsored amount. The amounts reported are the securitized principal notional amounts where no SRT is achieved. If SRT is achieved, then the aggregated regulatory exposure values (EAD) are shown. As the Group ceased the use of ABCP programs in 2015, there are no securitizations positions subject to the Internal Assessment Approach as of June 30, 2022.

The table EU SEC2 provides the total purchased or retained securitization exposure held in the bank's regulatory trading book separately for originator, sponsor and investor activities split by exposure type of the securitized assets and also further broken down into traditional and synthetic transactions as well as STS and non-STS securitizations. The amounts reported are the FAD.

EU SEC1 – Securitization exposures in the non-trading book

lun	30	. 21	02:

	а	b	С	d	е	f	g	h	i	j	k	I	m	n	0
						Institution acts	as originator			Institution acts	s as sponsor			Institution acts	s as investor
				Traditional		Synthetic			Traditional	Synthetic			Traditional	Synthetic	
		of which:		of which:		of which:									
in € m.	STS	SRT	Non-STS	SRT	Total	SRT	Subtotal	STS	Non-STS		Subtotal	STS	Non-STS		Subtotal
Total exposures	214	0	71	71	18,461	18,461	18,746	0	2,498	0	2,498	700	45,438	0	46,138
Retail	214	0	40	40	0	0	255	0	1,884	0	1,884	636	13,141	0	13,778
of which:															
Residential Mortgage	0	0	40	40	0	0	40	0	1,867	0	1,867	624	6,808	0	7,432
Credit Card	0	0	0	0	0	0	0	0	0	0	0	0	442	0	442
Other retail exposures	214	0	0	0	0	0	214	0	17	0	17	13	5,891	0	5,904
Re-securitization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wholesale	0	0	31	31	18,461	18,461	18,492	0	614	0	614	64	32,296	0	32,360
of which:															
Loans to corporates	0	0	0	0	18,461	18,461	18,461	0	468	0	468	5	24,714	0	24,719
Commercial Mortgage	0	0	31	31	0	0	31	0	105	0	105	0	180	0	180
Lease and receivables	0	0	0	0	0	0	0	0	41	0	41	33	3,159	0	3,192
Other wholesale	0	0	0	0	0	0	0	0	0	0	0	26	4,243	0	4,270
Re-securitization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

														[Dec 31, 2021
	а	b	С	d	е	f	g	h	i	j	k	I	m	n	0
						Institution acts	as originator			Institution acts	s as sponsor			Institution act	s as investor
				Traditional		Synthetic			Traditional				Traditional	Synthetic	
		of which:		of which:		of which:	_							•	
in € m.	STS	SRT	Non-STS	SRT	Total	SRT	Subtotal	STS	Non-STS	Synthetic	Subtotal	STS	Non-STS		Subtotal
Total exposures	214 ¹	0	114	114	19,560	19,560	19,888 ¹	0	2,030	0	2,030	1,199	41,431	0	42,630
Retail	214 ¹	0	43	43	0	0	257 ¹	0	1,605	0	1,605	961	11,267	0	12,228
of which:															
Residential Mortgage	0	0	43	43	0	0	43	0	1,569	0	1,569	858	5,755	0	6,613
Credit Card	0	0	0	0	0	0	0	0	0	0	0	0	467	0	467
Other retail exposures	214 ¹	0	0	0	0	0	214 ¹	0	36	0	36	103	5,044	0	5,147
Re-securitization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wholesale	0	0	71	71	19,560	19,560	19,631	0	425	0	425	238	30,165	0	30,402
of which:															
Loans to corporates	0	0	18	18	19,560	19,560	19,578	0	327	0	327	11	22,945	0	22,956
Commercial Mortgage	0	0	53	53	0	0	53	0	72	0	72	0	351	0	351
Lease and receivables	0	0	0	0	0	0	0	0	26	0	26	143	3,245	0	3,387
Other wholesale	0	0	0	0	0	0	0	0	0	0	0	84	3,624	0	3,708
Re-securitization	0	0	0	0	0	0	0	0	0	0	Ο	0	0	0	0

¹ Adjusted to represent change in interpretation of risk retention requirements for self-securitizations compared to December 31, 2021

EU SEC2 – Securitization exposures in the trading book

												Juli 30, 2022
	а	b	С	d	е	f	g	h	i	j	k	I
			Institution ac	ts as originator			Institution a	cts as sponsor			Institution a	acts as investor
		Traditional	Synthetic			Traditional	Synthetic			Traditional	Synthetic	
in € m.	STS	Non-STS		Subtotal	STS	Non-STS		Subtotal	STS	Non-STS		Subtotal
Total exposures	0	207	0	207	0	0	0	0	4	2,489	0	2,493
Retail	0	0	0	0	0	0	0	0	4	909	0	913
of which:												
Residential Mortgage	0	0	0	0	0	0	0	0	4	812	0	816
Credit Card	0	0	0	0	0	0	0	0	0	19	0	19
Other retail exposures	0	0	0	0	0	0	0	0	0	78	0	78
Re-securitization	0	0	0	0	0	0	0	0	0	0	0	0
Wholesale	0	207	0	207	0	0	0	0	0	1,580	0	1,580
of which:												
Loans to corporates	0	0	0	0	0	0	0	0	0	1,005	0	1,005
Commercial Mortgage	0	207	0	207	0	0	0	0	0	407	0	407
Lease and receivables	0	0	0	0	0	0	0	0	0	21	0	21
Other wholesale	0	0	0	0	0	0	0	0	0	147	0	147
Re-securitization	0	0	0	0	0	0	0	0	0	0	0	0

...

Dec	31,	2021	

	а	b	С	d	е	f	g	h	i	j	k	
			Institution ac	ts as originator			Institution a	cts as sponsor			Institution a	acts as investor
		Traditional				Traditional				Traditional		
in € m.	STS	Non-STS	Synthetic	Subtotal	STS	Non-STS	Synthetic	Subtotal	STS	Non-STS	Synthetic	Subtotal
Total exposures	0	466	0	466	0	3	0	3	2	1,943	22	1,967
Retail	0	0	0	0	0	3	0	3	0	683	0	683
of which:												
Residential Mortgage	0	0	0	0	0	3	0	3	0	572	0	572
Credit Card	0	0	0	0	0	0	0	0	0	8	0	8
Other retail exposures	0	0	0	0	0	0	0	0	0	103	0	103
Re-securitization	0	0	0	0	0	0	0	0	0	0	0	0
Wholesale	0	466	0	466	0	0	0	0	2	1,261	22	1,284
of which:												
Loans to corporates	0	0	0	0	0	0	0	0	0	392	22	414
Commercial Mortgage	0	466	0	466	0	0	0	0	0	735	0	735
Lease and receivables	0	0	0	0	0	0	0	0	2	18	0	20
Other wholesale	0	0	0	0	0	0	0	0	0	116	0	116
Re-securitization	0	0	0	0	0	0	0	0	0	0	0	0

Overall, the aggregate exposure volume generated by the securitization business was at about \in 70.1 billion as of June 30, 2022, which was a decrease of \in 1 billion compared to December 31, 2021. A large majority of the exposure resided in the non-trading book with \in 67.4 billion, whereas the trading book portion represented only a minor contribution of \in 2.7 billion aggregate exposure value. That was a decrease of \in 1.2 billion in the non-trading book driven by originator positions and an increase of \in 0.3 billion in the trading book, compared to December 31, 2021.

As of June 30, 2022, in the non-trading book there were two dominant contributions, which together cover \in 64.6 billion of the total \in 67.4 billion aggregate exposure volume of that book. One dominant part consisted of the traditional securitizations with a volume of \in 46.1 billion, where the Group acts as investor by purchasing securitization investments. The other dominant part was composed of the sythetic securitization transactions with a volume of \in 18.5 billion, where the Group acts as originator. From a securitized asset perspective, the dominant asset types were loans to corporates and mortgages (commercial mortgages and residential mortgages). In the non-trading book the loans to corporates underlied \in 43.6 billion of exposure volume, or 65% of the overall exposure volume in the non-trading book, and in the trading book the loans to corporates covered \in 1 billion, representing 37% of the total exposure volume of that book. The mortgages represented the dominant part in the trading book with \in 1.4 billion out of \in 2.7 billion, whereas the mortgages in the non-trading book with a contribution of \in 9.7 billion represented the less dominant part in that book. Together, the securitized asset types "Loans to corporates" and "Mortgage", underlied around \in 55.7 billion of \in 70.1 billion overall securitization position exposure, which represented 80% of that volume.

Of the overall volume of securitization business of € 70.1 billion only a minority of € 0.9 billion was classified as simple, transparent and standardized (STS). This represented 1.3% of the overall exposure volume in securitizations.

Securitization exposures in the non-trading book and associated regulatory capital requirements - institution acting as originator or as sponsor

Article 449 (k)(i) CRR

The table EU SEC3 presents the retained or purchased non-trading book securitizations, where the Group acts as originator or sponsor.

Firstly, the exposure values are broken down by risk-weight bands (columns a-e). Additionally the Group presents the exposure values, risk weighted exposure amounts and capital requirements separately for each regulatory RWA calculation approach (columns f-q). All just mentioned values are vertically broken down by traditional and synthetic transactions, securitization and re-securitization, as well as by retail or wholesale and a specific column for STS traditional transactions.

For the meaning of the names used in the following sections for the regulatory calculation approaches of the securitization framework (SEC-IRBA, SEC-SA and SEC-ERBA), please see the short description below.

- SEC-IRBA (Articles 259 and 260 CRR): Approach to be used in case the securitized assets would be treated under the IRBA approach if not securitized and reside on the Group's books. At least 95 % of the exposure value of the securitized assets need to be treated under the IRBA approaches in order to apply this approach. There are a number of additional requirements in order to apply this approach (see Article 258 CRR).
- SEC-SA (Articles 261 and 262 CRR): In case SEC-IRBA is not applicable, the SEC-SA is generally to be applied. For this
 the capital requirement ratio under the SA approach (KSA) of the pool of securitized assets needs to be calculated as if it
 was not securitized and as if it was on the Group's book. In addition the delinquent asset ratio on the pool level needs to
 be determined.
- SEC-ERBA (Articles 263 and 264 CRR): This can be applied, if an eligible external or inferred rating is available. The risk
 weight is determined by a lookup table from the rating letter and the maturity of the position. In case the SEC-ERBA is
 available there are certain rules to determine when the SEC-ERBA is to be used instead of the SEC-SA (for details see
 Article 254 CRR).
- 1,250 %: In all other cases, a risk weight of 1,250 % is applied.

EU SEC3 - Securitization exposures in the non-trading book and associated regulatory capital requirements - institution acting as originator or as sponsor

																	Jun 30, 2022
	a	b	С	d	е	f	g	h	i	j	k	1	m	n	0	р	q
		Expo	osure values (by RW bands	/deductions)	E	xposure values	(by regulato	ry approach)		RWA	(by regulato	ry approach)			Capital cha	rge after cap
			>50% to	>100% to	1250%		SEC-				SEC-				SEC-		
in 6 m	≤20% RW	>20% to 50% RW	100% RW	<1250% RW	RW/	SEC-IRBA	ERBA(incl	SEC-SA	1250% /	SEC-IRBA	ERBA(incl	SEC-SA	1250% /	SEC-IRBA	ERBA(incl	SEC-SA	1250% /
in € m.					deductions		uding IAA)		deductions		uding IAA)		deductions		uding IAA)		deductions
Total exposures	17,656	3,311	0	42	21	20,803	42	164	21	3,455	135	26	261	305	5	2	21
Traditional transactions	2,530	0	0	37	1	2,362	42	164	1	364	135	26	11	24	5	2	1
Securitization	2,530	0	0	37	1	2,362	42	164	1	364	135	26	11	24	5	2	1
Retail underlying	1,894	0	0	30	0	1,876	21	28	0	291	99	6	1	18	3	0	0
of which:																	
STS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wholesale	636	0	0	7	1	486	21	137	1	73	36	20	10	6	3	2	1
of which:																	
STS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Re-securitization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Synthetic transactions	15,125	3,311	0	5	20	18,441	0	0	20	3,091	0	0	250	282	0	0	20
Securitization	15,125	3,311	0	5	20	18,441	0	0	20	3,091	0	0	250	282	0	0	20
Retail underlying	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wholesale	15,125	3,311	0	5	20	18,441	0	0	20	3,091	0	0	250	282	0	0	20
Re-securitization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

																[Dec 31, 2021
	а	b	С	d	е	f	g	h	i	j	k	I	m	n	0	р	q
		Ехро	osure values (by RW bands	/deductions)	Е	xposure value	s (by regulato	ry approach)		RWA	(by regulato	ry approach)			Capital cha	rge after cap
in € m.	≤20% RW	>20% to 50% RW	>50% to 100% RW	>100% to <1250% RW	1250% RW/ deductions	SEC-IRBA	SEC- ERBA(incl uding IAA)	SEC-SA	1250% / deductions	SEC-IRBA	SEC- ERBA(incl uding IAA)	SEC-SA	1250% / deductions	SEC-IRBA	SEC- ERBA(incl uding IAA)	SEC-SA	1250% / deductions
Total exposures	18,650	2,961	2	64	26	21,433	70	174	26	3,455	163	56	327	291	7	3	25
Traditional transactions	2,064	18	2	59	0	1,899	70	174	0	294	163	56	6	21	7	3	0
Securitization	2,064	18	2	59	0	1,899	70	174	0	294	163	56	2	21	7	3	0
Retail underlying	1,597	18	2	30	0	1,595	42	10	0	248	113	4	2	17	3	0	0
of which:																	
STS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wholesale	467	0	0	28	0	304	28	164	0	46	50	52	0	4	4	3	0
of which:																	
STS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Re-securitization	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
Synthetic transactions	16,586	2,943	0	5	26	19,534	0	0	26	3,162	0	0	320	270	0	0	24
Securitization	16,586	2,943	0	5	26	19,534	0	0	26	3,162	0	0	320	270	0	0	24
Retail underlying	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wholesale	16,586	2,943	0	5	26	19,534	0	0	26	3,162	0	0	320	270	0	0	24
Re-securitization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Exposure to securitization positions
Securitization exposures in the non-trading book and associated regulatory capital requirements - institution acting as investor

The overall exposure volume of the securitization exposures in the non-trading book was € 67.2 billion by June 30, 2022, of which € 21 billion were represented by positions for which the Group acts as originator or sponsor, which was a minor decrease of € 0.7 billion compared to December 31, 2021. The securitization exposure for these two roles were concentrated in the lowest risk-weight band, with risk-weights equal to or lower than 20%. These positions were mainly treated by the SEC-IRBA method of the securitization framework of CRR. This reflects first and foremost the way the own synthetic securitizations, which covered €18.5 billion or 88% of the € 21 billion of exposure volume, are structured, namely such that the senior tranche which attracts a minimal risk-weight is kept, while subordinated tranches are transferred to third parties. As a consequence, the RWA before capping and the capital requirements were also concentrated under the method of SEC-IRBA. On the other hand, the overall capital requirements for originators and sponsors amount increased by € 7 million from € 326 million as of December 31, 2021 to € 333 million by June 30, 2022, of which € 305 million or circa 92% were treated under SEC-IRBA. The small relative movements in that portfolio, around 3% decrease in exposure levels and 2% increase of capital requirements reflects the stability of the originator business in the reporting period.

Securitization exposures in the non-trading book and associated regulatory capital requirements - institution acting as investor

Article 449 (k)(ii) CRR

The table EU SEC4 presents the purchased non-trading book securitizations, where the Group acts as investor, i.e. wherever the Group is not acting as originator or sponsor.

Firstly, the exposure values are broken down by risk-weight bands (columns a-e). Additionally, the Group presents the exposure values, risk weighted exposure amounts and capital requirements for securitization positions provided separately for each regulatory RWA calculation approach (columns f-q). All of these values are vertically broken down by traditional and synthetic transactions, securitization and re-securitization, as well as by retail or wholesale and a specific row for STS for traditional transactions.

EU SEC4 - Securitization exposures in the non-trading book and associated regulatory capital requirements - institution acting as investor

																	Jun 30, 2022
	а	b	С	d	е	f	g	h	i	j	k	- 1	m	n	0	р	q
		Expo	sure values	by RW bands	/deductions)	E	xposure values	(by regulato	ry approach)		RWA	(by regulato	ry approach)			Capital cha	rge after cap
		>20% to	>50% to	>100% to <1250%	1250% RW/		SEC- ERBA(incl		1250% /		SEC- ERBA(incl		1250% /		SEC- ERBA(incl		1250% /
in € m.	≤20% RW	50% RW	RW	RW	deductions	SEC-IRBA	uding IAA)	SEC-SA	deductions	SEC-IRBA	uding IAA)	SEC-SA	deductions	SEC-IRBA	uding IAA)	SEC-SA	deductions
Total exposures	42,148	2,023	1,625	317	25	21,000	611	24,501	25	4,085	533	6,741	313	296	33	380	15
Traditional transactions	42,148	2,023	1,625	317	25	21,000	611	24,501	25	4,085	533	6,741	313	296	33	380	15
Securitization	42,148	2,023	1,625	317	25	21,000	611	24,501	25	4,085	533	6,741	309	296	33	380	14
Retail underlying	11,699	1,033	777	254	15	9,413	389	3,961	15	2,038	312	3,124	183	135	16	92	4
of which:																	
STS	636	0	0	0	0	0	0	636	0	0	0	69	0	0	0	6	0
Wholesale	30,449	989	848	63	10	11,587	223	20,540	10	2,047	221	3,617	126	160	16	288	10
of which:																	
STS	64	0	0	0	0	0	59	5	0	0	6	0	0	0	0	0	0
Re-securitization	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
Synthetic transactions	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Securitization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retail underlying	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wholesale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Re-securitization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

																[Dec 31, 2021
	а	b	С	d	е	f	g	h	i	j	k	- 1	m	n	0	р	q
		Ехро	sure values	(by RW bands	/deductions)	Е	xposure value:	s (by regulato	ry approach)		RWA	(by regulato	ry approach)		·	Capital cha	rge after cap
in € m.	≤20% RW	>20% to 50% RW	>50% to 100% RW	>100% to <1250% RW	1250% RW/ deductions	SEC-IRBA	SEC- ERBA(incl uding IAA)	SEC-SA	1250% / deductions	SEC-IRBA	SEC- ERBA(incl uding IAA)	SEC-SA	1250% / deductions	SEC-IRBA	SEC- ERBA(incl uding IAA)	SEC-SA	1250% / deductions
Total exposures	38,859	2,333	1,148	274	16	20,114	1,133	21,367	16	3,822	502	6,061	197	279	31	323	16
Traditional transactions	38,859	2,333	1,148	274	16	20,114	1,133	21,367	16	3,822	502	6,061	197	279	31	323	16
Securitization	38,859	2,333	1,148	274	16	20,114	1,133	21,367	16	3,822	502	6,061	196	279	31	323	16
Retail underlying	9,649	1,578	773	228	0	7,514	844	3,870	0	1,674	463	3,178	1	113	28	92	0
of which:																	
STS	922	39	0	0	0	0	400	561	0	0	40	68	0	0	3	5	0
Wholesale	29,210	755	375	47	16	12,600	290	17,497	16	2,148	39	2,884	195	166	3	231	16
of which:																	
STS	238	0	0	0	0	0	238	0	0	0	24	0	0	0	2	0	0
Re-securitization	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Synthetic transactions	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Securitization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retail underlying	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wholesale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Re-securitization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

The overall exposure volume of the securitization exposures in the non-trading book was € 67.2 billion by June 30, 2022, for which € 46.1 billion the Group acts as investor, which was an increase of 3.5 billion compared with December 31, 2021. With € 42.2 billion, or 91% of the exposure volume, the majority of the exposure volume of the investor portfolio was concentrated in the lowest risk-weight bucket, with risk-weights below or equal to 20%. A minor portion of € 2 billion or 4% is allocated to the second lowest risk-weight bucket of risk-weights greater than 20% and lower than or equal to 50%. The two most important methods applied to the investor portfolio were the SEC-IRBA and the SEC-SA. The SEC-SA was applied to an exposure volume of € 24.5 billion or 53% and the SEC-IRBA was applied to € 21 billion or 46% of the full investor exposure amount. A minority portion of € 0.6 billion was covered by the SEC-ERBA. The least beneficial approach resulting in 1250% risk-weight had to be applied only to € 25 million exposure volume of this portfolio. The impact on capital requirements after the cap was, that also the two look-through approaches, SEC-IRBA and SEC-SA, covered € 380 million or 52% and the SEC-IRBA covered € 296 million or 41% of the overall capital requirements of € 724 million, which was an increase of € 75 million compared to December 31, 2021 with an amount of € 649 million.

Compared to December 31, 2021 there was an increase of € 2.8 billion in the overall exposure volume of the non-trading book, across all three roles, which was mainly driven by investor positions. That movement was mainly resulting from an increase of € 3.5 billion in the investor activities, only partly balanced by a decrease of € 0.7 billion in the originator and sponsor business, which was due to amortization of current pools or outplacing to the market. As a consequence the overall capital requirements of the non-trading book increased by 8% from € 975 million as of December 31, 2021, to € 1,057 million by June 30, 2022.

Exposures securitized by the institution - Exposures in default and specific credit risk adjustments

Article 449 (I) CRR

The table EU SEC5 presents the outstanding nominal amounts where the Group acts as originator or sponsor along with exposures which have been classified as defaulted according to Article 178 CRR and its relating specific credit risk adjustments in accordance with Article 110 CRR. The amounts are broken down by the exposure type of the securitized exposures. The outstanding nominal amounts shown correspond to the share of the Group's contribution to the securitized assets.

EU SEC5 - Article 449 (I) CRR - Exposures securitized by the institution - Exposures in default and specific credit risk adjustments

		Jun 30, 2022		
	a	b	С	
	Exposures securitiz	ecuritized by the institution - Institution acts as originator or as sponsor		
	Total outstanding	Total outstanding nominal amount		
in € m.	Total	of which exposures in default	specific credit risk adjustments made during the period	
Total exposures	125,014	4,014	98	
Retail (total)	37,092	2,110	0	
Residential mortgage	32,590	2,062	0	
Credit card	0	0	0	
Other retail exposures	4,402	48	0	
Re-securitization	100	0	0	
Wholesale (total)	87,922	1,903	98	
Loans to corporates	21,177	85	98	
Commercial mortgage	66,700	1,819	0	
Lease and receivables	44	0	0	
Other wholesale	0	0	0	
Re-securitization	1	0	0	

			Dec 31, 2021	
	a_	b	С	
	Exposures securitiz	Exposures securitized by the institution - Institution acts as originator or as sponsor		
	Total outstandin	Total outstanding nominal amount		
in € m.	Total	of which exposures in default	specific credit risk adjustments made during the period	
Total exposures	122,741	3,884	73	
Retail (total)	36,672	1,773	0	
Residential mortgage	32,115	1,741	0	
Credit card	0	0	0	
Other retail exposures	4,525	32	0	
Re-securitization	32	0	0	
Wholesale (total)	86,070	2,111	73	
Loans to corporates	22,648	73	73	
Commercial mortgage	63,301	2,038	0	
Lease and receivables	28	0	0	
Other wholesale	91	0	0	
Re-securitization		0	0	

The total outstanding nominal amount of securitized assets by the Group in the roles of originator or sponsor as of June 30, 2022 was € 125 billion, which was an increase of € 2.3 billion compared with € 122.7 billion as of December 31, 2021, which was mainly driven by the increase of € 3.4 billion on the asset type commercial mortgage from € 63.3 billion by December 31, 2021 to € 66.7 billion as of June 30, 2022. The outstanding nominal amount where the Group acts as originator contributed the majority of € 121.3 billion or 97% of the total outstanding nominal amount. The outstanding nominal amount where the Group acts as sponsor was represented by € 3.7 billion or 3% of the total outstanding amount. Breaking down the total outstanding nominal amount of securitized assets into asset types, mortgages contributed € 99.3 billion or 79% of the total outstanding amount. These can be broken down into commercial mortgages representing € 66.7 billion of the outstanding amount and residential mortgages contributing € 32.6 billion of the outstanding nominal amount. The second essential part was comprised of loans to corporates, which contributed € 21.2 billion of the outstanding nominal amount or 17% of the total outstanding nominal amount.

Securitized assets flagged as defaulted by June 30, 2022 added up to a total of € 4 billion, which were split into € 1.8 billion for commercial mortgages, € 2.1 billion for residential mortgages and € 0.1 billion for loans to corporates. This reflected a minor increase of € 0.1 billion compared with December 31, 2021. In relative terms the defaulted asset ratios were 2.7% for commercial mortgages, 6.3% for residential mortgages and 0.4% for loans to corporates. Overall, the ratio of defaulted assets in the pools of these securitization was at 3.2%, which remained stable compared to December 31, 2021.

Market risk

Own funds requirements for market risk under the standardized approach

Market Risk Standardized Approach

Article 445 CRR

As of June 30, 2022, the securitization positions, for which the specific interest rate risk is calculated using the market risk standardized approach, generated capital requirements of € 223 million corresponding to risk weighted-assets of € 2.79 billion. As of December 31, 2021 these positions generated capital requirements of € 221 million corresponding to risk weightedassets of € 2.76 billion.

The capital requirement for Collective Investment Undertakings under the market risk standardized approach was € 24 million corresponding to risk weighted-assets of € 302 million as of June 30, 2022, compared with € 11 million and € 138 million, respectively, as of December 31, 2021.

EU MR1 - Market risk under the standardized approach

		Jun 30, 2022	Dec 31, 2021
		a	a
	in € m.	RWA	RWA
	Outright products		
1	Interest rate risk (general and specific) ¹	149	84
2	Equity risk (general and specific) ²	96	64
3	Foreign exchange risk ³	201	158
4	Commodity risk	0	0
	Options		
5	Simplified approach	0	0
6	Delta-plus method	0	0
7	Scenario approach	0	0
8	Securitization (specific risk) ⁴	2,785	2,765
9	Total	3,231	3,071

Interest Rate risk RWA of € 149 million is from collective investment undertakings

Own funds requirements for market risk under the IMA

Regulatory capital requirements for market risk

Article 455 (e) CRR

The table below presents all internal model-related components relevant for the capital requirement calculation for market risk.

² Equity risk RWA of € 96 million is from collective investment undertakings

Foreign Exchange risk RWA includes € 58 million from collective investment undertakings and € 143 million related to placeholders for foreign exchange exposures
 Securitization (specific risk) RWA includes € 14 million charge from nth-to-default exposures

EU MR2-A - Market Risk under the internal models approach (IMA)

		Jun 30, 2022		Dec 31, 2021
	a	b	a	Dec 31, 2021
	a	Capital	a_	Capital
in € m.	RWA	requirements	RWA	requirements
1 VaR (higher of values a and b)	5,951	476	3,538	283
a) Previous day's VaR (Article 365(1) (VaRt-1))		124	_	73
Multiplication factor (mc) x average of previous 60 working days				
b) (VaRavg)	_	476	_	283
2 SVaR (higher of values a and b)	14,677	1,174	9,360	749
a) Latest SVaR (sVaRt-1)		286	_	189
Multiplication factor (ms) x average of previous 60 working days				740
(sVaRavg)		1,174		749
3 Incremental risk charge -IRC (higher of values a and b)	4,195	336	3,657	293
a) Most recent IRC value		301		253
b) 12 weeks average IRC measure		336		293
4 Comprehensive Risk Measure – CRM (higher of values a, b and c)				
a) Most recent risk measure of comprehensive risk measure		_	_	_
b) 12 weeks average of comprehensive risk measure		_	_	_
c) Comprehensive risk measure Floor		_	_	_
5 Other	0	0	147	12
6 Total	24,824	1,986	16,702	1,336

As of June 30, 2022 the Internal Models Approach (IMA) components for market risk totaled € 24.8 billion, which was an increase of € 8.1 billion since December 31, 2021. The increase in value-at-risk was driven by inclusion of recent market volatility, due to war in Ukraine and central bank actions to curb inflation, in the value-at-risk model, and from changes in interest rate and credit spread exposures in the Investment Bank. In addition, increase in value-at-risk and stressed value-atrisk components was also driven by increase in capital multiplier from 4 to 4.65 due to increase in Buy & Hold Backtesting outliers from 3 to 7.

Development of market risk RWA

Article 438 (h) CRR

The following table EU MR2-B provides an analysis of key drivers for movements observed for market risk RWA covered by internal models (i.e. value-at-risk, stressed value-at-risk, incremental risk charge and comprehensive risk measure) in the current and previous reporting period. It also shows the corresponding movements in capital requirements, derived from RWA with an 8 % capital ratio.

EU MR2-B - RWA flow statements of market risk exposures under the IMA

						Thi	ree months ende	d Jun 30, 2022
	_	а	b	С	d	е	f	g
	in € m.	VaR	SVaR	IRC	Compre- hensive risk measure	Other	Total RWA	Total capital requirements
1	Market Risk RWA opening balance	3,887	11,099	3,698		0	18,683	1,495
1a	Regulatory adjustment ¹	(2,530)	(6,860)	(23)		0	(9,412)	(753)
1b	RWA at the previous quarter-end (end of							
	the day)	1,357	4,239	3,675		0	9,271	742
2	Movement in risk levels	598	(678)	91	_	0	11	1
3	Model updates/changes	25	(163)	0	_	0	(138)	(11)
4	Methodology and policy	0	0	0	-	0	0	0
5	Acquisitions and disposals	0	0	0		0	0	0
6	Foreign exchange movements	0	0	0	_	0	0	0
6a	Market data changes and recalibrations ²	(427)	177	0	_	0	(250)	(20)
7	Other	0	0	0		0	0	0
8a	RWA at the end of the reporting period							
	(end of the day)	1,554	3,575	3,766		0	8,895	712
8b	Regulatory adjustment ¹	4,397	11,102	429		0	15,928	1,274
8	Market Risk RWA closing balance	5,951	14,677	4,195		0	24,824	1,986

¹ Indicates the difference between reported RWA (based on 60day average) and RWA (based on VaR / SVaR as of quarter-end) at the beginning (1b) and end (8a) of period. ² Indicates the spot impact on RWA at the time of go-live and does not reflect the RWA impact from market volatility feeding through the VaR model.

						Thr	ee months ende	d Mar 31, 2022
	_	а	b	С	d	е	f	g
	in € m.	VaR	SVaR	IRC	Compre- hensive risk measure	Other	Total RWA	Total capital requirements
1	Market Risk RWA opening balance	3,538	9,360	3,657		147	16,702	1,336
1a	Regulatory adjustment ¹	(2,625)	(6,996)	0		0	(9,621)	(770)
1b	RWA at the previous quarter-end (end of							
	the day)	913	2,364	3,657		147	7,081	566
2	Movement in risk levels	432	619	18	_	(147)	921	74
3	Model updates/changes	0	0	0	_	0	0	0
4	Methodology and policy	0	0	0	_	0	0	0
5	Acquisitions and disposals	0	0	0	_	0	0	0
6	Foreign exchange movements	0	0	0	_	0	0	0
6a	Market data changes and recalibrations	13	1,256	0		0	1,269	102
7	Other	0	0	0	_	0	0	0
8a	RWA at the end of the reporting period							
	(end of the day)	1,357	4,239	3,675		0	9,271	742
8b	Regulatory adjustment ¹	2,530	6,860	23	_	0	9,412	753
8	Market Risk RWA closing balance	3,887	11,099	3,698		0	18,683	1,495

¹ Indicates the difference between reported RWA (based on 60day average) and RWA (based on VaR / SVaR as of quarter-end) at the beginning (1b) and end (8b) of period.

The market risk RWA movements due to position changes are represented in line "Movement in risk levels". Changes to the Group's market risk RWA internal models, such as methodology enhancements or risk scope extensions, are included in the category of "Model updates/changes". In the "Methodology and policy" category the Group reflects regulatory driven changes to its market risk RWA models and calculations. Significant acquisitions and disposals would be assigned to the line item "Acquisition and disposals". The impacts of "Foreign exchange movements" are not calculated for IMA (Internal Models Approach) components. Changes in market data levels, return assumptions for negative market levels, volatilities, correlations, liquidity and ratings are included under the "Market data changes and recalibrations" category.

As of June 30, 2022, the IMA components for market risk totaled € 24.8 billion, which was an increase of € 6.1 billion since March 31, 2022. The increase in value-at-risk was driven by inclusion of recent market volatility, due to war in Ukraine and central bank actions to curb inflation, in the value-at-risk model, and from changes in interest rate and credit spread exposures in Investment Bank. In addition, increase in value-at-risk and stressed value-at-risk components was also driven by increase in capital multiplier from 4 to 4.65 due to increase in Buy & Hold Backtesting outliers from 3 to 7.

Other quantitative information for market risk under the internal models approach

Overview of Value-at-Risk Metrics

Article 455 (d) CRR

The following table, EU MR3, displays the maximum, minimum, average and the ending for the reporting period values resulting from the different types of models. This table is based on the spot values of the metrics as opposed to the regulatory defined calculation (e.g. not considering any comparisons between spot and average values used in the actual RWA calculations). The VaR and SVaR are both based on ten day holding periods.

EU MR3 - IMA values for trading portfolios1

		Jun 30, 2022	Dec 31, 2021
	in € m.	a	а
VaF	R (10 day 99 %)		
1	Maximum value	181.1	89.2
2	Average value	91.9	65.8
3	Minimum value	54.5	48.9
4	Period end	133.3	77.3
SVa	aR (10 day 99 %)		
5	Maximum value	372.7	318.4
6	Average value	239.9	183.5
7	Minimum value	142.1	85.9
8	Period end	290.7	191.3
IRC	(99.9 %)		
9	Maximum value	414.0	555.9
10	Average value	315.7	352.1
11	Minimum value	233.3	226.6
12	Period end	301.3	253.3
Con	mprehensive risk capital charge (99.9 %)		
13	Maximum value		_
14	Average value		_
15	Minimum value		_
16	Period end		_

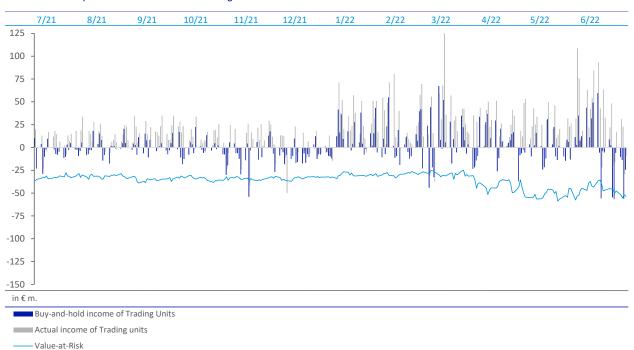
¹ Amounts show the maximum, average and minimum for the preceding six month period.

Comparison of end-of-day VaR measures with one-day changes in portfolio's value

Article 455 (g) CRR

The following graph shows the trading units daily buy-and-hold and actual income in comparison to the value-at-risk (1 day holding period) as of the close of the previous business day for the trading days of the reporting period. The value-at-risk is presented in negative amounts to visually compare the estimated potential loss of the Group's trading positions with the buy and hold income.

EU MR4 - Comparison of VaR estimates with gains and losses



During the reporting period (January 2022 - June 2022), the Group observed 2 Actual and 6 buy-and-hold backtesting outliers. The outliers were driven by a sharp increase in market volatility in interest rates leading to market moves that were larger than those within the preceding one-year period used in the value-at-risk calculation. In the last 1 year period we have observed 4 Actual and 7 buy-and-hold backtesting outliers.

Exposure to interest rate risk in the banking book

Article 448 CRR

Changes in the economic value of equity and net interest income

Article 448 (a-b,d) CRR

The following table shows the impact on the Group's net interest income in the non-trading book as well as the change of the economic value for the banking book positions from interest rate changes under the six standard scenarios defined by the European Banking Authority (EBA).

EU IRRBB1 - Changes in the economic value of equity and net interest income under six supervisory shock scenarios

	Changes of the e	Changes of the economic value of equity		
in € bn.	Jun 30, 2022	Dec 31, 2021	Jun 30, 2022	Dec 31, 2021
Parallel up	(4.4)	(3.5)	2.2	1.4
Parallel down	0.6	0.1	(1.0)	(0.9)
Steepener	(0.3)	(0.0)	(0.4)	(0.7)
Flattener	(1.4)	(1.3)	1.8	1.1
Short rate up	(2.3)	(1.7)	2.6	1.7
Short rate down	0.9	0.4	(1.0)	(0.9)
Maximum	(4.4)	(3.5)	(1.0)	(0.9)

¹ Changes of the net interest income (NII) reflects the difference between projected NII in the respective scenario with shifted rates vs. market implied rates. Sensitivities are based on a static balance sheet at constant exchange rates, excluding trading positions and DWS. Figures do not include Mark to Market (MtM) / Other Comprehensive Income (OCI) effects on centrally managed positions not eliqible for hedge accounting.

The maximum Economic Value of Equity (EVE) loss was € (4.4) billion as of June 2022, compared to € (3.5) billion as of December 2021.

The increase in the maximum Economic Value of Equity loss for the 'Parallel up' interest rate scenario was mainly driven by changes in risk positions in Deutsche Bank's Central Investment Office. Those risks are part of the IRRBB framework and are managed via defined risk management strategies.

The maximum one-year loss in net interest income (NII) was € (1.0) billion as of June 2022, compared to € (0.9) billion as of December 2021.

The increase in the maximum net interest income loss in the short rate down scenario is mainly driven by the increase in Euro interest rates observed in the first half of 2022. The increase leads to higher interest rate downward shocks that are applied in floored regulatory standard scenarios with corresponding higher net interest income losses.

Liquidity risk

Oualitative information on LCR

Article 451a CRR (EU LIQB)

The Liquidity Coverage Ratio (LCR)

The LCR is intended to promote the short-term resilience of a bank's liquidity risk profile over a 30 day stress scenario. The ratio is defined as the amount of High Quality Liquid Assets ("HQLA") that could be used to raise liquidity, measured against the total volume of net cash outflows, arising from both contractual and modelled exposures, in a stressed scenario.

This requirement has been implemented into European law, via the Commission Delegated Regulation (EU) 2015/61, adopted in October 2014. Compliance with the LCR was required in the EU from October 1, 2015.

The Group's average LCR of 137% (twelve months average) has been calculated in accordance with the Commission Delegated Regulation (EU) 2015/61 and the EBA Guidelines on LCR disclosure to complement the disclosure of liquidity risk management under Article 435 CRR.

The Group's Liquidity Coverage Ratio (LCR) was 133% as of June 30, 2022, or € 51 billion of excess over the regulatory minimum of 100%. This compares to 133%, or € 52 billion of excess liquidity at December 31, 2021. The marginal change in surplus was primarily driven by net new capital market issuances and retail deposit inflows offset by loan growth and higher outflows from commitments.

Concentration of funding and liquidity sources

Diversification of the Group's funding profile in terms of investor types, regions and products is an important element of the Group's liquidity risk management framework. The Group's most stable funding sources for which the Bank has introduced a minimum risk appetite stem from capital markets issuances and equity, as well as from retail, and transaction banking clients. Other customer deposits and secured funding and short positions are additional sources of funding. Unsecured wholesale funding represents unsecured wholesale liabilities sourced primarily by the Treasury Pool Management team. Given the relatively short-term nature of these liabilities, it is predominantly used to fund liquid trading assets.

To promote the additional diversification of the Group's refinancing activities, the bank holds a license to issue mortgage Pfandbriefe. The Group continues to run a program for the purpose of issuing Covered Bonds under Spanish law (Cedulas) and participate in the TLTRO III program. Additionally, the Group expanded in 2020 its potential investor base by introducing the Group's Sustainable Finance Framework and issued a Green Bond in June 2020.

Unsecured wholesale funding comprises a range of institutional products, such as Certificate of Deposits (CDs), Commercial Papers (CPs) as well as Money Market deposits.

To avoid any unwanted reliance on these short-term funding sources, and to promote a sound funding profile which complies with the defined risk appetite, the Group has implemented limits (across tenors) on these funding sources which are derived from daily stress testing analysis. In addition, the bank limits the total volume of unsecured wholesale funding to manage the reliance on this funding source as part of the overall funding diversification.

Composition of HQLA

The average HQLA of € 215 billion has been calculated in accordance with the Commission Delegated Regulation (EU) 2015/61 and the EBA Guidelines on LCR disclosure to complement the disclosure of liquidity risk management under Article 435 CRR.

The HQLA as of June 30, 2022 of € 207 billion is primarily held in Level 1 cash and central bank reserves (74%) and Level 1 high quality securities (23%). This compares to € 207 billion as of December 31, 2021 primarily held in Level 1 cash and central bank reserves (81%) and Level 1 high quality securities (17%).

Derivative exposures and potential collateral calls

The majority of outflows related to derivative exposures and other collateral requirements shown in item 11 are in relation to derivative contractual cash outflows that are offset by derivative cash inflows shown in item 19 Other cash inflows.

Other significant outflows relate to the impact of an adverse market scenario on derivatives based on the 24 month historical look back approach and the potential posting of additional collateral as a result of a 3 notch downgrade of DB's credit rating (as per regulatory requirements).

Currency mismatch in the LCR

The LCR is calculated for EUR, USD and GBP which have been identified as significant currencies (having liabilities > 5% of total group liabilities excluding regulatory capital and off balance sheet liabilities) in accordance with the Commission Delegated Regulation (EU) 2015/61. No explicit LCR risk appetite is set for the significant currencies. However, limits have been defined over the respective significant currency stressed Net Liquidity Position (sNLP). This allows the internal monitoring and management of risks stemming from currency mismatches that may arise from liquidity inflows and outflows over the short-term horizon.

Other items in the LCR calculation that are not captured in the LCR disclosure template but that the institution considers relevant for its liquidity profile

The Pillar 3 disclosure obligations require Banks to disclose the 12 months rolling averages each quarter. The Group does not consider anything else relevant for disclosure.

Quantitative information on LCR

Article 451a CRR

EU LIQ1 - LCR disclosure template

	in € bn.			tal unweighted v				Total weighted v	
	Quarter ending on	Jun 30, 2022	Mar 31, 2022	Dec 31, 2021	Sep 30, 2021	Jun 30, 2022	Mar 31, 2022	Dec 31, 2021	Sep 30, 2021
	Number of data points used in the								
	calculation of averages	12	12	12	12	12	12	12	12
	High-quality liquid assets		-		-		-		
1	Total high-quality liquid assets (HQLA)					215	218	220	220
	Cash-outflows								
2	Retail deposits and deposits from								
	small business costumers	277	279	280	281	15	16	16	17
	of which:		_	_					_
3	Stable deposits	127	123	120	116	6	6	6	6
1	Less stable deposits	67	72	77	81	9	9	10	11
5	Unsecured wholesale funding	242	235	228	222	105	101	98	95
	of which:								
3	Operational deposits (all								
	counterparties) and deposits in								
	network of cooperative banks	86	84	83	82	21	21	20	20
,	Non-operational deposits (all								
	counterparties)	154	149	144	137	82	79	76	73
3	Unsecured debt	2	2	2	2	2	2	2	2
9	Secured wholesale funding	_	_	_	_	13	15	17	19
10	Additional requirements	214	207	203	200	68	66	68	69
	of which:								
11	Outflows related to derivative								
	exposures and other collateral								
	requirements	26	25	27	28	22	20	23	25
2	Outflows related to loss of funding		•			-	-		
	on debt products	0	0	0	0	0	0	0	0
3	Credit and liquidity facilities	187	181	176	172	46	46	45	44
4	Other contractual funding obligations	65	61	56	51	8	8	7	7
15	Other contingent funding obligations	223	201	173	142	5	5	5	5
16	Total cash outflows	_				214	212	212	212
	Cash - inflows								- ·
17	Secured lending (e.g. reverse repos)	310	300	280	265	15	16	17	17
18	Inflows from fully performing								
	exposures	52	49	47	44	36	34	33	31
19	Other cash inflows	10	8	11	13	10	8	11	13
	Difference between total weighted								
-0 .00	inflows and total weighted outflows								
	arising from transactions in third								
	countries where there are transfer								
	restrictions or which are denominated								
	in non-convertible currencies	_	_	_	_	4	3	3	3
EU 19b	Excess inflows from a related								
	specialized credit institution	_	_	_	_	0	0	0	0
20	Total cash inflows	371	357	337	322	57	55	57	59
	of which:								- ·
EU 20a	Fully exempt inflows	0	0	0	0	0	0	0	0
EU 20b	Inflows subject to 90% cap	0	0	0	0	0	0	0	0
EU 20c	Inflows subject to 75% cap	339	324	305	290	57	55	57	59
	Total adjusted value		-		-		-		-
1	Liquidity buffer	_		-		215	218	220	220
	Total net cash outflows					157	157	155	154
22									

The Net Stable Funding Ratio (NSFR)

The NSFR requires banks to maintain a stable funding profile in relation to its on- and off-balance sheet activities. The ratio is defined as the amount of Available Stable Funding (the portion of capital and liabilities expected to be a stable source of funding), relative to the amount of Required Stable Funding (a function of the liquidity characteristics of various assets held).

The Capital Requirements Regulation II ("CRR2"), the regulation which defines and implements the NSFR for the EU, was finalized in June 2019 and is effective from June 28, 2021.

The NSFR as of June 30, 2022 calculated in accordance with the CRR2 stands at 116%, or \leq 85 billion of excess over regulatory minimum of 100%.

EU LIQ2 - Net stable funding ratio template

	·					Jun 30, 2022
		а	b	С	d	е
			Unweighte	ed value by resid	ual maturity	
		No		6 months		Weighted
	<u>in € b.</u>	maturity	< 6 months	to < 1 year	≥ 1 year	value
	Available stable funding (ASF) Items		·			
1	Capital items and instruments	68	0	0	12	80
2	Own funds	68	0	0	10	78
3	Other capital instruments		0	0	2	2
4	Retail deposits		250	21	2	256
5	Stable deposits		175	20	2	187
6	Less stable deposits		75	2	1	69
7	Wholesale funding:		363	52	123	258
8	Operational deposits		82	0	0	41
9	Other wholesale funding		281	52	123	217
10	Interdependent liabilities	_	0	0	0	0
11	Other liabilities:	15	142	3	3	4
12	NSFR derivative liabilities	15	_	_	_	_
13	All other liabilities and capital instruments not included in the above categories	_	142	3	3	4
14	Total available stable funding (ASF)	_	_			598
	Required stable funding (RSF) Items					
15	Total high-quality liquid assets (HQLA)	_				20
EU 15a			0	0	23	20
16	Deposits held at other financial institutions for operational purposes		0	0	0	0
17	Performing loans and securities:		176	41	396	394
	Performing securities financing transactions with financial customers collateralized by					
18	Level 1 HQLA subject to 0% haircut	_	57	7	1	5
	Performing securities financing transaction with financial customers collateralized by					
19	other assets and loans and advances to financial institutions	_	24	11	53	61
	Performing loans to non-financial corporate clients, loans to retail and small business					
20	customers, and loans to sovereigns, and PSEs,	_	59	15	137	157
	of which:					
	With a risk weight of less than or equal to 35% under the Basel II Standardized					
21	Approach for credit risk	_	2	0	4	4
22	Performing residential mortgages,		3	1	132	97
	of which:					
	With a risk weight of less than or equal to 35% under the Basel II Standardized					
23	Approach for credit risk	_	2	1	105	74
	Other loans and securities that are not default and do not qualify as HQLA, including					
24	exchange-traded equities and trade finance on-balance sheet products	_	32	6	74	74
25	Interdependent assets		0	0	0	0
26	Other assets:	0	146	2	23	63
27	Physical traded commodities				1	1
	Assets posted as initial margin for derivative contracts and contributions to default					
28	funds of CCPs	_			7	6
29	NSFR derivative assets				14	14
30	NSFR derivative liabilities before deduction of variation margin posted				60	3
31	All other assets not included in the above categories		65	2	23	40
32	Off-balance sheet items		66	36	153	17
33	Total required stable funding (RSF)					514
34	Net Stable Funding Ratio (in percent)					116
J 4	Net Otable 1 unuing Natio (in percent)					110

					N	Mar 31, 2022
		а	b	С	d	е
			Unweighte	ed value by resid	lual maturity	
		No		6 months		Weighted
	in € b.	maturity	< 6 months	to < 1 year	≥ 1 year	value
	Available stable funding (ASF) Items					
1	Capital items and instruments	65	0	0	13	79
2	Own funds	65	0	0	10	75
3	Other capital instruments	_	0	0	3	3
4	Retail deposits	_	249	22	2	255
5	Stable deposits	_	175	20	2	187
6	Less stable deposits		74	2	0	68
7	Wholesale funding:		258	30	143	269
8	Operational deposits	_	86	0	0	43
9	Other wholesale funding		172	30	143	226
10	Interdependent liabilities		0	0	0	0
11	Other liabilities:	10	162	2	3	4
12	NSFR derivative liabilities	10				
13	All other liabilities and capital instruments not included in the above categories		162		3	4
			102			
14	Total available stable funding (ASF)		· 			607
	Required stable funding (RSF) Items					
15	Total high-quality liquid assets (HQLA)					19
EU 15a	Assets encumbered for more than 12m in cover pool		0	0	25	21
16	Deposits held at other financial institutions for operational purposes		0	0	0	0
17	Performing loans and securities:		182	27	390	385
	Performing securities financing transactions with financial customers collateralized by					
18	Level 1 HQLA subject to 0% haircut		51	1	5	7
	Performing securities financing transaction with financial customers collateralized by					
19	other assets and loans and advances to financial institutions		32	7	53	60
	Performing loans to non-financial corporate clients, loans to retail and small business					
20	customers, and loans to sovereigns, and PSEs,	_	63	14	128	151
	of which:					
	With a risk weight of less than or equal to 35% under the Basel II Standardized					
21	Approach for credit risk	_	5	1	7	7
22	Performing residential mortgages,	_	3	1	129	94
	of which:					
	With a risk weight of less than or equal to 35% under the Basel II Standardized					
23	Approach for credit risk	_	3	1	107	76
	Other loans and securities that are not default and do not qualify as HQLA, including			· ——		
24	exchange-traded equities and trade finance on-balance sheet products	_	32	5	74	73
25	Interdependent assets	_	0	0	0	0
26	Other assets:	0	151	2	22	62
27	Physical traded commodities				1	0
	Assets posted as initial margin for derivative contracts and contributions to default				<u> </u>	
28	funds of CCPs	_			7	6
29	NSFR derivative assets				15	15
30	NSFR derivative liabilities before deduction of variation margin posted		-		48	2
31	All other assets not included in the above categories		82	2	21	38
32	Off-balance sheet items		57	36	148	15
33	Total required stable funding (RSF)					501
34	Net Stable Funding Ratio (in percent)	_	_	_	_	121

						ec 31, 2021
		а	b	C	d	е
			Unweighte	d value by resid	ual maturity	
	$in \in b$.	No maturity	< 6 months	6 months to < 1 year	≥ 1 year	Weighted value
	Available stable funding (ASF) Items					
1	Capital items and instruments	67	0	0	9	76
2	Own funds	67	0	0	7	74
3	Other capital instruments	_	0	0	2	2
4	Retail deposits		248	22	2	255
5	Stable deposits	_	175	20	2	187
6	Less stable deposits	_	74	1	0	68
7	Wholesale funding:	_	359	24	144	268
8	Operational deposits	_	83	0	0	42
9	Other wholesale funding	_	275	24	144	226
10	Interdependent liabilities	_	0	0	0	0
11	Other liabilities:	11	118	3	2	4
12	NSFR derivative liabilities	11	_		_	_
13	All other liabilities and capital instruments not included in the above categories	_	118	3	2	4
14	Total available stable funding (ASF)	_			_	602
	Required stable funding (RSF) Items					
15	Total high-quality liquid assets (HQLA)		_			20
EU 15a	Assets encumbered for more than 12m in cover pool		0	0	24	21
16	Deposits held at other financial institutions for operational purposes	_	0	0	0	0
17	Performing loans and securities:		182	28	386	382
	Performing securities financing transactions with financial customers collateralized by	-				
18	Level 1 HQLA subject to 0% haircut	_	50	1	5	6
	Performing securities financing transaction with financial customers collateralized by					
19	other assets and loans and advances to financial institutions	_	28	7	52	58
	Performing loans to non-financial corporate clients, loans to retail and small business			-		
20	customers, and loans to sovereigns, and PSEs,	-	70	14	123	148
	of which:					
	With a risk weight of less than or equal to 35% under the Basel II Standardized					
21	Approach for credit risk		10	1	6	10
22	Performing residential mortgages,	_	1	1	130	95
	of which:					
	With a risk weight of less than or equal to 35% under the Basel II Standardized					
23	Approach for credit risk	_	1	1	104	73
	Other loans and securities that are not default and do not qualify as HQLA, including					
24	exchange-traded equities and trade finance on-balance sheet products		33	5	76	75
25	Interdependent assets		0	0	0	0
26	Other assets:	0	131	1_	21	60
27	Physical traded commodities				0	0
	Assets posted as initial margin for derivative contracts and contributions to default					
28	funds of CCPs				7	6
29	NSFR derivative assets				15	15
30	NSFR derivative liabilities before deduction of variation margin posted	_			56	3
31	All other assets not included in the above categories	_	53	1	21	36
32	Off-balance sheet items		59	29	143	14
33	Total required stable funding (RSF)		_		_	498
34	Net Stable Funding Ratio (in percent)	_	_			121

					5	Sep 30, 2021
		а	b	C	d	е
			Unweighte	d value by resid	ual maturity	
	in € b.	No maturity	< 6 months	6 months to < 1 year	≥ 1 year	Weighted value
	Available stable funding (ASF) Items					
1	Capital items and instruments	65	0	0	10	75
2	Own funds	65	0	0	7	72
3	Other capital instruments	-	0	0	2	2
4	Retail deposits	-	247	21	2	253
5	Stable deposits	-	173	20	2	185
6	Less stable deposits	_	74	1	0	68
7	Wholesale funding:	_	363	19	142	261
8	Operational deposits	_	81	0	0	40
9	Other wholesale funding	_	282	19	142	221
10	Interdependent liabilities	_	0	0	0	0
11	Other liabilities:	14	150	3	2	4
12	NSFR derivative liabilities	14				_
13	All other liabilities and capital instruments not included in the above categories		150	3	2	4
14	Total available stable funding (ASF)		_			593
	Required stable funding (RSF) Items	•				
15	Total high-quality liquid assets (HQLA)					21
EU 15a	Assets encumbered for more than 12m in cover pool		0	0	25	21
16	Deposits held at other financial institutions for operational purposes		0	0	0	0
17	Performing loans and securities:		173	29	372	367
-17	Performing securities financing transactions with financial customers collateralized by				- 312	- 307
18	Level 1 HQLA subject to 0% haircut	_	46	1	7	8
	Performing securities financing transaction with financial customers collateralized by					
19	other assets and loans and advances to financial institutions	_	33	6	45	51
	Performing loans to non-financial corporate clients, loans to retail and small business					
20	customers, and loans to sovereigns, and PSEs,	_	60	15	117	139
	of which:					
	With a risk weight of less than or equal to 35% under the Basel II Standardized					-
21	Approach for credit risk	_	2	1	4	4
22	Performing residential mortgages,		1	1	127	94
	of which:					
	With a risk weight of less than or equal to 35% under the Basel II Standardized	-				
23	Approach for credit risk	_	1	1	89	61
-	Other loans and securities that are not default and do not qualify as HQLA, including					
24	exchange-traded equities and trade finance on-balance sheet products	_	32	5	76	75
25	Interdependent assets	_	0	0	0	0
26	Other assets:	0	153	2	22	61
27	Physical traded commodities		_		1	1
	Assets posted as initial margin for derivative contracts and contributions to default	-				
28	funds of CCPs	_			7	6
29	NSFR derivative assets				14	14
30	NSFR derivative liabilities before deduction of variation margin posted				56	3
31	All other assets not included in the above categories		76	2	21	37
32	Off-balance sheet items		60	27	142	14
33	Total required stable funding (RSF)					483
34	Net Stable Funding Ratio (in percent)					123

List of tables

EU KM1 – Key metrics	6
EU KM2 – Key metrics - MREL and G-SII Requirement for own funds and eligible liabilities (TLAC)	7
EU CC1 – Composition of regulatory own funds	10
Reconciliation of shareholders' equity to Own Funds	13
Development of Own Funds	14
EU CC2 – Reconciliation of regulatory own funds to balance sheet in the audited financial statements	15
EU CCyB1 - Geographical distribution of credit exposures relevant for the calculation of the countercyclical capital buffer	19
EU CCyb2 – Institution-specific countercyclical capital buffer	23
EU TLAC1 – Composition of MREL and G-SII requirement for own funds end eligible liabilities	24
Ranking of liabilities in an insolvency proceeding under German law	26
EU TLAC3a – Creditor ranking	27
EU OV1 – Overview of RWA	28
EU LR1 – LRSum: Summary reconciliation of accounting assets and leverage ratio exposures	29
EU LR2 – LRCom: Leverage ratio common disclosure	30
EU LR3 – LRSpl: Split-up of on balance sheet exposures (excluding derivatives, SFTs and exempted exposures)	31
EU CR1-A – Maturity of exposures	33
EU CQ4 – Quality of non-performing exposures by geography	35
EU CQ5 – Credit quality of loans and advances to non-financial corporations by industry	37
EU CR1 - Performing and non-performing exposures and related provisions	39
EU CQ3 – Credit quality of performing and non-performing exposures by past due days	42
EU CR2 – Changes in the stock of non-performing loans and advances	44
EU CQ1 – Credit quality of forborne exposures	44
CRR – NPE Flow	45
ECB – NPE Flow	46
ECB – NPE Stock	47
Reconciliation of non-performing exposure	47
EU CQ7 – Collateral obtained by taking possession and execution processes	48
COVID-19 template 1: Information on loans and advances subject to legislative and non-legislative moratoria ¹	49
COVID-19 template 2: Breakdown of loans and advances subject to legislative and non-legislative moratoria by residual maturity of moratoria	52
COVID-19 template 3: Information on newly originated loans and advances provided under newly applicable public guarantee schemes introduced in response to COVID-19 pandemic (excluding derecognized loans)	
EU CR3 – CRM techniques – Overview	54
EU CR4 – Standardized approach – credit risk exposure and credit risk mitigation (CRM) effects	55
EU CR5 – Standardized approach	56
EU CR6 – FIRB approach – Credit risk exposures by exposure class and PD range	60
EU CR6 – AIRB approach – Credit risk exposures by exposure class and PD range	67
EU CR7 – IRB approach – Effect on the RWAs of credit derivatives used as CRM techniques	79

EU CR7-A – Foundation IRB approach – Extent of the use of CRM techniques.	80
EU CR7-A – Advanced IRB approach – Extent of the use of CRM techniques	81
EU CR8 – RWA flow statement of credit risk exposures under the IRB approach	83
EU CR10.02 – Specialized lending: Income-producing real estate and high volatility commercial real estate (Slotting approach)	83
EU CR10.05 – Equity exposures under the simple risk-weighted approach	84
EU CCR1 – Analysis of CCR exposure by approach	85
EU CCR7 – RWA flow statement of counterparty credit risk exposures under the internal model method	86
EU CCR2 – CVA capital charge	87
EU CCR8 – Exposures to CCPs	88
EU CCR3 – Standardized approach – CCR exposures by regulatory portfolio and risk	88
EU CCR4 – FIRB approach – CCR exposures by portfolio and PD scale	90
EU CCR4 – AIRB approach – CCR exposures by portfolio and PD scale	93
EU CCR5 – Composition of collateral for exposures to CCR	98
EU CCR6 – Credit derivatives exposures	98
EU SEC1 – Securitization exposures in the non-trading book	100
EU SEC2 – Securitization exposures in the trading book	101
EU SEC3 – Securitization exposures in the non-trading book and associated regulatory capital requirements - institution acting as originator or as s	
EU SEC4 – Securitization exposures in the non-trading book and associated regulatory capital requirements - institution acting as investor	105
EU SEC5 - Article 449 (I) CRR - Exposures securitized by the institution - Exposures in default and specific credit risk adjustments	106
EU MR1 – Market risk under the standardized approach	108
EU MR2-A – Market Risk under the internal models approach (IMA)	109
EU MR2-B – RWA flow statements of market risk exposures under the IMA	109
EU MR3 – IMA values for trading portfolios ¹	111
EU MR4 – Comparison of VaR estimates with gains and losses	111
EU IRRBB1 - Changes in the economic value of equity and net interest income under six supervisory shock scenarios	112
EU LIQ1 – LCR disclosure template	114
EU LIQ2 – Net stable funding ratio template	115

List of tables

