



Regulatory Disclosure Report for the 2017 financial year of Aareal Bank Group



Aareal Bank Group

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Preface

In addition to the details contained in the Aareal Bank Group Annual Report, this Regulatory Disclosure Report explains the business policy standards and facts that are relevant for assessing our situation from a regulatory perspective. Besides providing a qualified description of the manner in which our risks are identified, evaluated, weighted and reviewed, the Regulatory Disclosure Report also contains detailed quantitative statements about the sizes of the individual areas.

The Regulatory Disclosure Report implements the requirements according to part 8 of Regulation (EU) 575/2013 (Capital Requirements Regulation – "CRR").

Aareal Bank Group is classified as a significant institution within the scope of the Single Supervisory Mechanism (SSM) and is therefore subject to direct supervision by the European Central Bank (ECB).

The European Banking Authority (EBA) published the final draft guidelines on disclosure requirements under part 8 of the CRR (EBA/GL/2016/11) on 14 December 2016. These substantiate the existing disclosure requirements of the CRR.

Aareal Bank Group is – in principle – not covered by the ECB guidelines and is therefore not formally required to meet the disclosure requirements formulated therein, as it is not classified by the Federal Financial Supervisory Authority (BaFin) as a Global Systemically Important Institution (G-SII) on the basis of Delegated Regulation (EU) 1222/2014 or as an Other Systemically Important Institution (O-SII) on the basis of Article 131 (3) CRD IV. Nor is it obliged to meet the EBA guidelines. Nonetheless, Aareal Bank Group meets the EBA guidelines in full, on a voluntary basis.

The Regulatory Disclosure Report is prepared in accordance with Bank-internal provisions and procedures stipulated in writing in order to fulfil disclosure requirements. In line with the requirements of Article 431 (3) of the CRR, Aareal Bank Group has created formal procedures through a disclosure guideline, which ensure that the disclosure requirements are met. The disclosure guideline of Aareal Bank Group contains rules on

- The scope and content of the disclosure requirements,
- The principles of disclosure, in particular on appropriateness, structure of the report, locations, reporting date and frequency,
- Determining the materiality, confidential information and trade secrets,
- Responsibilities and organisational units involved,
- The structure of the disclosure process,
- The data sources and relevant IT systems and
- The review of the disclosure procedure.

The specific structure and implementation of the disclosure requirements is described in detail in supplementary documents.

Aareal Bank Group has implemented comprehensive control mechanisms as part of its disclosure process, which are used to review the disclosed data for completeness, accuracy and appropriateness. These control activities associated with the disclosure process are an integral component of the Internal Control System (ICS) of Aareal Bank Group. Besides the ongoing control in the course of the creation process, the control activities include an annual, central review of the following aspects:

- Appropriateness of the details
- Content-related design of the disclosures
- Frequency of the disclosures
- New regulatory requirements and adjustments

The Regulatory Disclosure Report and the disclosure guideline are approved by the Management Board of Aareal Bank AG.

In addition, compliance with the disclosure requirements is regularly reviewed by Internal Audit of Aareal Bank Group. Overall, the Regulatory Disclosure Report is subject to control mechanisms comparable to those used in the management report for financial reporting.

In accordance with the legal requirements, the Regulatory Disclosure Report does not require a qualified audit opinion and is therefore not audited.

The Regulatory Disclosure Report is published pursuant to Article 434 (1) of the CRR on the Aareal Bank AG website under the menu item "Investor Relations". Furthermore, selected details from various disclosure tables which are considered relevant for the Bank are published there.

In addition to the annual and semi-annual publication of the Regulatory Disclosure Report, Aareal Bank AG will also publish a quarterly Regulatory Disclosure Report as of 2018. The scope is oriented on the guidelines EBA/GL/2016/11 in conjunction with the revised guidelines EBA/ GL/2014/14.

Summary

Aareal Bank AG, whose registered office is in Wiesbaden, Germany, is the parent institution of the Group.

Aareal Bank complies with the requirements of parts 2 and 3 of CRR at a Group level, due to the fact that Aareal Bank Group has elected to use the waiver option provided by section 2a (1) sentence I of the KWG (in conjunction with Article 7 (3) of the CRR), whereby the reports for financial holding companies or banking groups may be prepared on a consolidated basis.

In the course of the 2017 financial year, the splitoff banking operations of the former Westdeutsche ImmobilienBank AG (WestImmo) were merged into Aareal Bank AG. WestImmo operates under the name "Westdeutsche Immobilien Servicing AG" after the split-off of the banking operations. West-Immo's banking licence has expired. The details we have published in this disclosure report are based on both the Credit Risk Standard Approach (CRSA) and the Advanced IRB Approach (Advanced Internal Rating Based Approach – AIRBA). We only mention the disclosure requirements explicitly relevant for us.

Given the waiver option provided by the EBA Guidelines regarding the first-time disclosure of data for previous reporting periods, we have not disclosed changes in the stock of defaulted or impaired loans or debt securities (table EU CR2-B) as well as the RWA flow statement of credit risk exposures under the IRBA (table EU CR8).

Minor differences may occur regarding the figures stated, due to rounding.

As at the reporting date, Aareal Bank holds no securitisation exposures in its portfolio, so that the disclosure requirements pursuant to Article 449 of the CRR shall not apply.

The Regulatory Disclosure Report includes the requirements of the CRR, provided the necessary information is not already disclosed elsewhere.

The following outline provides an overview as to where the information on the disclosure requirements pursuant to part 8 of the CRR is published.

Furthermore, if facts are already described in the Annual Report, reference is made specifically to the information included in the corresponding source references. CRR article Contents

Reference to Regulatory Disclosure Report

Reference to other publications of Aareal Bank

431	Scope of application of disclosure	"Preface"	
	obligations		
435 (1)	Institution risk management approach (EU OVA)	"Risk Management"	Aareal Bank Group Annual Report: – Risk Report "Aareal Bank Group Risk Management"
435 (1)	General qualitative information about credit risk (EU CRA)	"Credit risk and general information on credit risk mitigation"	Aareal Bank Group Annual Report: – Risk Report "Lending business" – Risk Report "Credit risks"
435 (1)	Qualitative disclosure requirements related to counterparty credit risk (EU CCRA)	"Counterparty credit risk"	Aareal Bank Group Annual Report: – Risk Report "Trading activities" – Risk Report "Credit risk mitigation"
435 (1)	Qualitative disclosure requirements related to market risk (EU MRA)	"Market risks"	Aareal Bank Group Annual Report: – Risk Report "Market price risks"
435 (1)	Disclosure of liquidity coverage ratio and liquidity management	"Liquidity risks"	Aareal Bank Group Annual Report: – Risk Report "Liquidity risks" – Risk Report "Securities portfolio"
435 (2)	Corporate governance regulations	"Information about corporate governance regulations"	 Aareal Bank Group Annual Report: Risk Report "Risk Management – Scope of application and areas of responsibility" Report of the Supervisory Board "Report of the Supervisory Board of Aareal Bank AG, Wiesbaden"
			Website: www.aareal-bank.com/en/about-us/corporate-governance/ www.aareal-bank.com/en/about-us/company-profile/the-management-board/ www.aareal-bank.com/en/about-us/company-profile/supervisory-board/
436	Scope of application	"Scope of application of the regulatory framework"	Aareal Bank Group Annual Report: – Consolidated Financial Statements "(3) Consolidation"
437	Regulatory capital	"Regulatory capital"	Aareal Bank Group Annual Report: – Consolidated Financial Statements "(89) Regulatory capital and capital management"
			 Website: Main features of capital instruments: www.aareal-bank.com/en/investors-portal/finance-information/regulatory-disclosures/archive/2017/ Full terms and conditions of capital instruments: www.aareal-bank.com/en/investors-portal/finance-information/terms- and-conditions-of-issue-pursuant-to-article-437-1-c-of-the-crr/archive/ 2017/
438	Regulatory capital requirements	"Regulatory capital requirements"	Aareal Bank Group Annual Report: – Consolidated Financial Statements "(89) Regulatory capital and capital management"
439	Counterparty credit risk	"Counterparty credit risk"	Aareal Bank Group Annual Report: – Risk Report "Trading activities" – Risk Report "Credit risk mitigation"
440	Capital buffer	"Countercyclical buffer"	
441	Indicators of global systemic relevance	n/a	
442	Credit risk adjustments	"Credit risk and general informa- tion on credit risk mitigation"	Aareal Bank Group Annual Report: – Risk Report "Credit risk mitigation"

CRR		Reference to Regulatory	
article	Contents	Disclosure Report	Reference to other publications of Aareal Bank
443	Unencumbered assets	"Encumbered and unencumbered assets"	
444	Utilisation of ECAI	"External rating for CRSA exposures"	
445	Market risk	"Market risks"	Aareal Bank Group Annual Report: – Risk Report "Market price risks"
446	Operational risk	"Operational risks"	
447	Risks from investments not included in the trading book	"Investment risks"	Aareal Bank Group Annual Report: – Risk Report "Investment risks" – Consolidated Financial Statements "(98) List of shareholdings"
448	Interest rate risk from holdings not included in the trading book	"Interest rate risk in the banking book"	
449	Risk from securitisation exposures	n/a	
450	Remuneration policy	"Remuneration"	Qualitative disclosures: Annual Report: "Principles of Remuneration of Members of the Management Board and the Supervisory Board" Quantitative disclosures: www.aareal-bank.com/en/investors-portal/finance-information/regulatory-
			disclosures/archive/2017/
451	Leverage	"Leverage ratio"	
452	Application of the IRB approach for credit risks	"Qualitative information on the use of the IRB Approach" "Quantitative information on the use of the IRB Approach""	
453	Use of credit risk mitigation techniques	"General qualitative information on credit risk mitigation"	Aareal Bank Group Annual Report: – Risk Report "Credit risk mitigation"
454	Use of advanced measurement approaches for operational risks	n/a	
455	Use of internal models for market risk	n/a	

Risk Management

Risk management deals with identifying, assessing, limiting and managing risks. Therefore, risk management is an essential part of corporate governance.

According to section 25a (1) of the KWG in conjunction with the specifications provided in the Minimum Requirements for Risk Management (MaRisk), credit institutions are obliged to implement appropriate and effective risk management to ensure their risk-bearing capacity.

With regard to the disclosure requirements pursuant to Article 435 of the CRR, the Management Board confirms that Aareal Bank Group's risk management system is appropriate regarding the risk strategies, which were derived from and are consistent with the business strategy, as well as with the risk profile identified as part of the risk inventory. Please refer to the Annual Report for further information concerning risk management pursuant to Article 435 (1) of the CRR, as presented in the overview of the previous chapter.

Information about Corporate Governance Regulations

The disclosures required pursuant to Article 435 (2) of the CRR are outlined below.

Management and supervisory functions of the Management Board and the Supervisory Board

Please refer to the list of offices held in the Annual Report for an overview of the number and nature of management and supervisory functions held by members of the Management Board and Supervisory Board pursuant to section 285 no. 10 of the German Commercial Code (Handelsgesetzbuch – HGB) in conjunction with section 125 (1) sentence 5 of the German Public Limited Companies Act (Aktiengesetz – AktG).¹⁾

Selecting members of the Management Board and the Supervisory Board

The Supervisory Board of Aareal Bank AG is satisfied that the Management Board and the Supervisory Board are adequately staffed, if all members are in a position to perform their duties (professional qualification), commit the time necessary to perform these and possess the integrity to be guided by the ethical principles of Aareal Bank when performing their duties (with respect to personal reliability, conflicts of interest, and independence). The composition of the respective entire shall facilitate cooperation and the widest possible diversity of opinions and knowledge (the concept of diversity). The Supervisory Board has defined concrete requirements and processes to incorporate these criteria for the evaluation of Management Board and Supervisory Board members, as well as when selecting candidates for appointment to the Management Board, or for shareholder representatives to the Supervisory Board. When establishing

these processes, it has taken into account the legal requirements of the German Public Limited Companies Act (Aktiengesetz – "AktG", the German Banking Act (Kreditwesengesetz – "KWG" and of the German Corporate Governance Code. In addition, the regulatory guidelines of the ECB and the EBA on adequacy and for internal governance are also incorporated, as well as the corporate governance guidelines for the consultants on share voting rights and major shareholders that are relevant to Aareal Bank. Besides the Supervisory Board, the ECB also reviews the suitability of the respective candidates prior to taking up their duties, using the so-called "fit & proper" approach.

In accordance with the internal rules of procedure for the Supervisory Board, it is the duty of the Executive and Nomination Committee to identify suitable candidates for appointment to the Management Board, and to nominate members of the shareholder representatives of the Supervisory Board. Moreover, the Executive and Nomination Committee is responsible for assessing the skills, knowledge and experience of individual members of the Management Board and the Supervisory Board. Additional information concerning the strategy for selecting members of the management bodies and their actual knowledge, abilities and experience is published in the Corporate Governance Report. The professional careers of the members of the Management Board and the Supervisory Board are detailed on the Aareal Bank AG website.

Diversity strategy for selecting members of the management bodies

The chapter "Concept of diversity" of the Corporate Governance Report contains comprehensive information about the strategies, objectives and the extent to which targets were achieved with regard to the composition of the Management Board and the Supervisory Board. No changes on

¹⁾ Aareal Bank Group 2017 Annual Report: chapter "Other Notes", Note (99) in the Notes to the consolidated financial statements, page 203 et seqq.

the Supervisory Board are currently foreseeable; any necessary amendments will be communicated in good time through corresponding press releases.

Risk Committee

The Supervisory Board has established six committees, including the Risk Committee, in order to perform its supervisory duties in an efficient manner: The Risk Committee deals with all types of risk Aareal Bank is exposed to in its business activities. The Committee is also responsible for reviewing the contents of the risk strategy, in accordance with the MaRisk. The submission of the credit risk strategy to the plenary meeting of the Supervisory Board remains unaffected by this function, as is intended by the MaRisk. Please refer to the Report of the Supervisory Board provided in the Annual Report for further information on the work of the Risk Committee and the number of committee meetings during the period under review. The report also includes details on the flow of information towards the Supervisory Board.

Flow of information towards the Management Board and the Supervisory Board

Reporting to the Management Board and the Supervisory Board is described in the Risk Report, the Corporate Governance Report as well as in the Report of the Supervisory Board.

Scope of Application of the Regulatory Framework

Aareal Bank AG, whose registered office is in Wiesbaden, Germany, is the parent institution of Aareal Bank Group, and prepares this disclosure report in accordance with Article 10a (1) of the KWG.

The strategic business segments of Aareal Bank Group are commercial property financing and services, software products and digital solutions for the property sector and related industries. Our business model comprises two segments:

In the Structured Property Financing business segment, Aareal Bank facilitates property investments for its domestic and international clients, and is active in this respect in Europe, North America and Asia. What makes Aareal Bank special are its direct client relationships, which - in very many cases - it has maintained for many years. We finance commercial property, especially office buildings, hotels, retail, logistics and residential properties. Our focus is on financing existing buildings. Our particular strength lies in the success we have in combining local market expertise and sectorspecific know-how. This enables us to offer tailormade financing concepts that meet the special requirements of our national and international clients. Aareal Bank's particular strengths are its structuring expertise, as well as portfolio and crossborder financings.

In the Consulting/Services segment, we offer our customers from the property sector and related industries, such as the energy sector, a combination of specialised banking services, software products and digital solutions. Our subsidiary Aareon AG is the leading consultancy and IT systems house for the property sector in Europe.

Please refer to the Annual Report for further information concerning our business model.¹⁾

Comparison of the scopes of consolidation

The entities within the Group are consolidated for accounting and regulatory monitoring purposes. Applicable accounting and regulatory rules differ in some areas in relation to their specifications and objectives.

¹⁾ Aareal Bank Group 2017 Annual Report: chapter "Fundamental Information about the Group" in the Group Management Report, page 28 et seqq.

Hence, the scope of consolidation created on the basis of the legal requirements differs, in terms of the number of consolidated entities, as well as regarding the method of consolidation.

The following consolidation matrix lists all subsidiaries, joint arrangements and associates of Aareal Bank Group for each of the two operating segments which are consolidated on the basis of regulatory aspects, or which are included in consolidated financial reporting as at the reporting date, since their equity amounts to at least € I million. Smaller companies included in consolidated financial reporting only for accounting

purposes are not listed, as they are deemed immaterial.

With regard to the description of the respective company to be disclosed in column f, we follow the definitions listed in Article 4 of the CRR, whereby companies which are consolidated on the basis of regulatory aspects are classified depending on their principal activity, including as credit institutions, providers of ancillary services or financial institutions. Shareholdings classified as other companies comprise exclusively those included in consolidated financial reporting and for which classification pursuant to CRR does not apply.

EU LI3: Outline of the differences in the scopes of consolidation

Name of the entity	а	b	с	d	е	f
	Method of accounting	Method of regulatory consolidation				Description of the entity
	consolidation	Full	Proportional	Neither consolidated		
		consolidation	consolidation	nor deducted	Deducted	Full consolidation

Structured Property Financing segment				
Aareal Bank Asia Ltd., Singapore	Full consolidation	Х		Bank
Aareal Capital Corporation, Wilmington	Full consolidation	Х		Credit institution
Aareal Estate AG, Wiesbaden	Full consolidation	Х		Provider of ancillary services
Aareal Gesellschaft für Beteiligungen und Grundbesitz Erste mbH & Co. KG, Wiesbaden	Full consolidation	х		Credit institution
Aareal Immobilien Beteiligungen GmbH, Wiesbaden	Full consolidation	Х		Credit institution
Aareal Valuation GmbH, Wiesbaden	Full consolidation	Х		Provider of ancillary services
Aareal Holding Realty LP, Wilmington	Full consolidation	Х		Credit institution
WP Galleria Realty LP, Wilmington	Full consolidation	Х		Provider of ancillary services
Northpark Realty LP, Wilmington	Full consolidation	Х		Provider of ancillary services
Esplanade Realty LP, Wilmington	Full consolidation	Х		Provider of ancillary services
Manager Realty LLC, Wilmington	Full consolidation	Х		Provider of ancillary services
BauContact Immobilien GmbH, Wiesbaden	Full consolidation		X	Miscellaneous
BVG – Grundstücks- und Verwertungs- gesellschaft mbH, Frankfurt/Main	Full consolidation	Х		Credit institution
Aareal Beteiligungen AG, Frankfurt/Main	Full consolidation	Х		Credit institution
Deutsche Structured Finance GmbH, Wiesbaden	Full consolidation	Х		Credit institution
GEV Besitzgesellschaft mbH, Wiesbaden	Full consolidation	Х		Credit institution
IV Beteiligungsgesellschaft für Immobilieninvestitionen mbH, Wiesbaden	Full consolidation	Х		Credit institution
Izalco Spain S.L., Madrid	Full consolidation	Х		Provider of ancillary services
Jomo S.p.r.l., Brussels	Full consolidation	Х		Provider of ancillary services
La Sessola Holding GmbH, Wiesbaden	Full consolidation	Х		Credit institution

Name of the entity a Method of accounting consolidation Method of accounting consolidation La Sessola S.r.I., Rome Full consolidation La Sessola Service S.r.I., Rome Full consolidation Terrain Beteiligungen GmbH, Wiesbaden Full consolidation Mercadea S.r.I., Rome Full consolidation Mirante S.r.I., Rome Full consolidation Mount Street Global Limited, London At equity Mount Street Global Limited, London At equity Mount Street Holdings Limited, London At equity Mount Street Portfolio Advisors GmbH, At equity Mount Street Portfolio Advisors GmbH, At equity Mount Street Portfolio Advisors LLC, At equity Mount Street US LLP, Wilmington At equity Mount Street US Georgia) LLP, Atlanta At equity Mount Street US Gloop LLP, Wilmington At equity Mount Street US Georgia) LLP, Atlanta At equity Mount Street US Georgia) LLP, Wilmington At equity Mount Street US Georgia LLP, Wilmington At equity Mount Street US Georgia LLP, Wilmington At equity Mount Street US Georgia LLP, Wilmington At equity	Full	Method of regulat Proportional consolidation X X X X X X X X X X X X X	tory consolidation Neither consolidated nor deducted	Deducted	Description of the entity Full consolidation Provider of ancillary services Provider of ancillary services Credit institution Provider of ancillary services Provider of ancillary services Credit institution Credit institution Credit institution Credit institution Credit institution Provider of ancillary services Credit institution Credit institution
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Aareon AG, Mainz Full consolidation Aareon Deutschland GmbH, Mainz Full consolidation			1)		Other
Aareon Deutschland GmbH, Mainz Full consolidation					
	Х				Credit institution
Aareon France S.A.S., Meudon-la-Forêt Full consolidation			Х		Miscellaneous
			Х		Miscellaneous
Aareon Nederland B.V., Emmen Full consolidation			Х		Miscellaneous
Aareon UK Ltd., Coventry Full consolidation			Х		Miscellaneous
Aareon Sverige AB, Mölndal Full consolidation			Х		Miscellaneous
Aareal First Financial Solutions AG, Mainz Full consolidation	Х				Provider of ancillary services
BauSecura Versicherungsmakler GmbH, Hamburg			х		Miscellaneous
Deutsche Bau- und Grundstücks- Aktiengesellschaft, Berlin Full consolidation			Х		Miscellaneous
Kalshoven Automation B.V., Amsterdam Full consolidation			Х		Miscellaneous
1st Touch Ltd., Southampton Full consolidation			Х		Miscellaneous
phi-Consulting GmbH, Bochum Full consolidation			Х		Miscellaneous
Square DMS B.V., Grathem Full consolidation					Miscellaneous

¹⁾ The fund reported under the AIRBA is treated using the simple risk weight method pursuant to Article 155 (2) of the CRR.

Undercapitalised entities

At present, none of the banks or financial services providers within Aareal Bank Group are undercapitalised, which would require a deduction of the holding from the parent company's liable equity.

Utilisation of the "waiver" regulation

Aareal Bank has opted for the waiver according to section 2a (1) sentence 1 of the KWG in conjunction with Article 7 (3) of the CRR. This so-called parent waiver allows parent companies to fulfil the requirements of parts 2 to 5 and 8 of the CRR on a consolidated basis only.

Aareal Bank AG's participatory interests in its subsidiaries allow it to transfer capital from subordinated subsidiaries to Aareal Bank AG, if necessary. This can be achieved, for example, through distributions to Aareal Bank AG or by capital decreases at the subsidiaries. The Bank can also request its subsidiaries to repay their liabilities.

Accordingly, there are no burdens (neither legal, nor materially factual) as per Article 7 (3) lit. a) of the CRR to the immediate transfer of capital or repayment of liabilities by the subsidiaries to Aareal Bank AG.

As the parent institution of the Group, Aareal Bank AG operates a central risk management system for the banking group of which it forms a part. This means that the prerequisites stated in Article 7 (3) lit. b) of the CRR regarding the combined supervision of risk assessment, risk measurement and risk control procedures are fulfilled.

Aareal Bank AG carries out event-driven reviews to ensure it continues to fulfil the prerequisites of Article 7 (3) of the CRR and documents them in writing.

Differences between accounting and regulatory scopes of consolidation and mapping of financial statements categories with regulatory risk categories

For each of the line items in Aareal Bank AG's financial statements, the following table (page 12) shows the differences between the scope of accounting consolidation and the scope of regulatory consolidation. Furthermore, for the line items shown, the table outlines the allocation to relevant risk categories for regulatory capital requirements.

The carrying values shown in table EU LI1 are calculated using financial reporting principles in accordance with the IFRSs. Allocation to risk categories is in line with the regulatory scope of consolidation; this also encompasses those line items which are generally exempt from regulatory capital requirements (such as liabilities), or which are deducted when determining regulatory capital requirements.

Differences between the carrying values shown are exclusively due to the different scopes of consolidation and the resulting consolidation postings. In this context, there are overlaps between the corporate entities included in the respective scope of consolidation. For further details, please refer to the comparison of scopes of consolidation in template EU LI3.

Please note that the sum of the amounts shown in the columns c) to g) is not identical to the amounts disclosed in column b); this is due to the fact that several line items are subject to capital requirements for credit or counterparty credit risk, as well as to capital requirements for market risk.

EU LI1: Differences between accounting and regulatory scopes of consolidation and mapping of financial statements categories to regulatory risk categories

	а	b	с	d	е	f	g
	Carrying values of items						
	Carrying values as reported in published financial state- ments	Carrying values under scope of regulatory consolidation	Subject to the credit risk framework	Subject to the CCR framework	Subject to the securitisation framework	Subject to the market risk framework	Not subject to capital require- ments or sub- ject to deduction from capital
€ mn							
Assets							
Cash funds	2,081	2,081	2,081	-	_	4	-
Loans and advances to banks	779	748	748	-	_	693	-
Loans and advances to customers	27,845	27,813	27,813	_	-	15,161	-
Allowance for credit losses	-540	-540	-540	0	_	-	-
Positive market value of derivative							
hedging instruments	1,926	1,926	-	1,926	-	-	-
Trading assets	327	327	-	327	_	7	-
Non-trading assets	8,537	8,797	8,797	-	_	931	-
Investments accounted for using	7		0				
the equity method	7	-	0	-	-	-	_
Intangible assets	153	16	-	-	_	5	16
Property and equipment	253	240	240	-	_	1	
Income tax assets	52	49	49	-	-	1	-
Deferred tax assets	99	108	104	-	-	1	4
Other assets	389	421	421	-	-	8	-
Total assets	41,908	41,985	39,712	2,252	-	16,811	20
Equity and liabilities							
Liabilities to banks	1,914	1,937	-	-	_	181	1,937
Liabilities to customers	25,765	25,876	-	-	_	3,672	25,876
Certificated liabilities	7,594	7,594	-	-	_	1,700	7,594
Negative market value of derivative hedging instruments	1,479	1,479	_	1,479	_	_	_
Trading liabilities	224	224		224		39	
Provisions	570	523	3		_	20	520
Income tax liabilities	29	27		_	_	0	27
Deferred tax liabilities	19	22	_	_			22
Other liabilities	124	151	_	_		3	151
Subordinated capital	1,265	1,265	_	_		84	1,265
Equity	2,924	2,885	-	_		449	2,885
Total liabilities	41,908	41,985	3	1,703	_	6,147	40,279

Main sources of differences between regulatory risk exposure amounts and carrying values in financial statements

Whilst the focus of table EU L11 is on the reconciliation of carrying amounts in the financial statements under commercial law to the regulatory scope of consolidation, and on the allocation to regulatory risk categories, table EU L12 reconciles carrying amounts with the regulatory risk exposure (Exposure at Default – "EaD"), in line with the regulatory scope of consolidation.

In this context, table EU LI2 identifies the main sources of differences between the carrying amounts/

values shown, and exposures for regulatory purposes (EaD).

In contrast to table EU LII, table EU LI2 only incorporates those line items which are subject to regulatory capital requirements. Line items which are deducted when determining regulatory capital requirements, or which are generally exempt from regulatory capital requirements, are not taken into account here.

Aareal Bank AG does not set off financial assets and financial liabilities for accounting purposes; therefore, no disclosure is made in line 3 of table EU LI2.

b d а е Items subject to CCR Credit risk Securitisation Market risk framework Total framework framework framework €mn 1 Assets carrying value amount under the scope of regulatory consolidation (as per template EU LI1) 41,985 39,712 2,252 16,811 2 Liabilities carrying value amount under the scope of regulatory 41,985 consolidation (as per template EU LI1) З 1,703 6,147 _ 3 Total net amount under the regulatory scope of consolidation _ _ 4 Off-balance-sheet amounts 1,308 1,308 _ _ 869 515 5 Differences in valuations 354 _ _ 6 Differences due to different netting rules, other than those -1,126 -1,126 already included in row 2 _ _ 7 535 Differences due to consideration of provisions 535 0 _ _ 8 Differences due to prudential filters _ _ _ _ _ 9 Differences resulting from the calculation of the net foreign exchange position under the market risk standard approach -16,677 _ _ _ 10 Not subject to capital requirements or subject to deduction from capital -20 43,551 1,481 42,071 11 Exposure amounts considered for regulatory purposes _ 134

EU LI2: Main sources of differences between regulatory risk exposure amounts and carrying values in financial statements

The following material causes and drivers are important for Aareal Bank AG regarding differences between carrying values and EaD figures:

- Line 4 shows off-balance sheet exposures not carried on the statement of financial position, which must be supplemented for regulatory purposes. Off-balance sheet exposures are shown after application of credit conversion factors (CCFs) and including the application of credit risk mitigation techniques.
- Line 5 shows valuation differences between the carrying amounts under German commercial law and regulatory EaD for on-balance sheet exposures. This is largely attributable to adjustments due to the methodology for determining EaD in the Advanced IRB approach, as well as to adjustments due to add-ons for potential future replacement values of derivative transactions (regulatory add-on) for counterparty credit risk exposures.
- Line 6 shows differences due to the application of framework netting agreements for counterparty credit risk exposures, which are eligible for regulatory purposes and which Aareal Bank uses for mitigating credit risk.
- Line 7 reflects credit risk adjustments used for the regulatory comparison of Expected Loss (EL) to credit risk adjustments of exposures under the AIRBA, which have already been deducted from the carrying amounts shown in line I.
 EaD for IRBA exposures is determined prior to deduction of credit risk adjustments; hence, credit risk adjustments already deducted from the carrying value must be supplemented.
- Line 8 shows no adjustments since existing prudential filters (such as cash flow reserves and adjustments due to the prudent valuation of financial instruments at fair value) are recognised directly in regulatory capital, and hence have no impact upon determination of regulatory exposures.

- Line 9 reflects the difference attributable to the determination of net foreign exchange position, for the purpose of regulatory capital requirements for market risk.
- Line I0 shows the balance-sheet items deducted from regulatory capital, as reported in column g) of table EU L11, since these are not included in the risk categories shown above (columns b) and c) of table EU L12). These items must be deducted in order to reconcile the totals column (a) with the amounts of relevant risk categories (columns b and c).

Regulatory Capital

Aareal Bank Group has to comply with the capital adequacy requirements set out in the Capital Requirements Regulation (CRR), the Capital Requirements Directive (CRD IV), the German Banking Act (Kreditwesengesetz – "KWG") and the German Solvency Regulation (Solvabilitätsver-ordnung – "SolvV"). Following these regulations, institutions and companies operating in the financial sector must calculate their existing regulatory capital on a regular basis, and present these detailed results thereon to the supervisory authorities on specific dates.

Strict regulatory criteria are applied to the availability and sustainability of the qualifying capital when calculating regulatory capital. These provisions are not consistent with the recognition rules pursuant to the German Commercial Code (Handelsgesetzbuch – "HGB") or IFRSs.

The regulatory capital, as well as equity disclosed in Aareal Bank Group's Annual Report, are based on the items reported in the statement of financial position according to IFRSs. However, there are differences between items disclosed for regulatory and accounting purposes which are due to different scopes of consolidation as well as adjustments to the Group's regulatory capital. The disclosures in this report are based on the binding provisions for the implementation of disclosure requirements set out in the Commission Implementing Regulation 1423/2013/EU, in the interests of comparability and increased transparency pursuant to Article 437 of the CRR.

Main features of capital instruments

The overview of the main features published on our website is limited to a description of the issued capital instruments. Shares as well as reserves attributable to Common Equity Tier I capital are not considered since they are covered in position I of the table under section "Disclosure of own funds during the transitional period".

In addition to the overview of the issued capital instruments' main features, Aareal Bank is required, pursuant to Article 437 (1) lit. c) of the CRR, to disclose the full terms and conditions of all Common Equity Tier I, Additional Tier I and Tier 2 instruments. Such terms and conditions of issue have been published in full on Aareal Bank's website under the "Investors" item.

Disclosure of own funds during the transitional period

				Amounts to be made with a
		Amount as at 31 Dec 2017	Reference to applicable section of Regulation 575/2013/EU	Amounts to be recognised before the application of Regulation 575/2013/EU or residual amounts according to Regulation 575/2013/EU
€m	n			
Со	nmon Equity Tier 1 (CET1) capital: instruments and reserves			
1	Capital instruments and the related share premium accounts	900	26 (1), 27, 28, 29, EBA index pursuant to section 26 (3)	-
	of which: ordinary shares	180	EBA index pursuant to section 26 (3)	-
2	Retained earnings	1,542	26 (1) (c)	-
3	Accumulated other comprehensive income (and other reserves designated to account for unrealised gains and losses according to applicable accounting standards)	-64	26 (1)	12
За	Funds for general banking risks	-	26 (1) (f)	-
4	Amount of qualifying items referred to in Art. 484 (3) and the related share premium accounts subject to phase out from CET1	_	486 (2)	-
	Public-sector capital injections grandfathered until 1 Jan 2018	-	483 (2)	-
5	Minority interests (amount allowed in consolidated CET1)	-	84, 479, 480	-
5a	Independently reviewed interim profits net of any foreseeable charge or dividend	38	26 (2)	-
6	Common Equity Tier 1 (CET1) capital before regulatory adjustments	2,416		
Со	nmon Equity Tier 1 (CET1) capital: regulatory adjustments			
7	Additional value adjustments (negative amount)	-10	34, 105	-
8	Intangible assets (net of related tax liability) (negative amount)	-13	36 (1) (b), 37, 472 (4)	-3
9	Empty set in the EU	-		-

		Amount as at 31 Dec 2017	Reference to applicable section of Regulation 575/2013/EU	Amounts to be recognised before the application of Regulation 575/2013/EU or residual amounts according to Regulation 575/2013/EU
€m				
10	Deferred tax assets that rely on future profitability excluding those arising from temporary differences (net of related tax liability where the conditions of Art. 38 (3) are met) (negative amount)	-4	36 (1) (c), 38, 472 (5)	-1
11	Fair value reserves related to gains or losses on cash flow hedges of financial instruments	1	33 (a)	_
12	Negative amounts resulting from the calculation of expected loss amounts	-15	36 (1) (d), 40, 159, 472 (6)	-4
13	Increase in equity resulting from securitised assets (negative amount)	-	32 (1)	-
14	Gains or losses on liabilities valued at fair value resulting from changes in own credit standing	-	33 (b)	_
15	Defined-benefit pension fund assets (negative amount)	-	36 (1) (e), 41, 472 (7)	-
16	Direct and indirect holdings of own Common Equity Tier 1 instruments (negative amount)	-	36 (1) (f), 42, 472 (8)	-
17	Holdings of Common Equity Tier 1 instruments of financial sector entities where those entities have reciprocal cross holdings with the institution designed to inflate artificially the own funds of the institution (negative amount)	-	36 (1) (g), 44, 472 (9)	-
18	Direct, indirect and synthetic holdings by the institution of Common Equity Tier 1 instruments of financial sector entities where the institution does not have a significant investment (amount above 10% threshold and net of eligible short positions) (negative amount)	-	36 (1) (h), 43, 45, 46, 49 (2) (3), 79, 472 (10)	-
19	Direct, indirect and synthetic holdings by the institution of Common Equity Tier 1 instruments of financial sector entities in which the institution has a significant investment (amount above 10% threshold and net of eligible short positions) (negative amount)	_	36 (1) (i), 43, 45, 47, 48 (1) (b), 49 (1) to (3), 79, 470, 472 (11)	-
20	Empty set in the EU	-		-
20a	Exposure amount of the following items which qualify for a risk weight of 1,250 %, where the institution opts for the deduction alternative	_	36 (1) (k)	_
20b	of which: qualifying holdings outside the financial sector (negative amount)	-	36 (1) (k) (i), 89 to 91	-
20c	of which: securitisation positions (negative amount)	-	36 (1) (k) (ii), 243 (1) (b), 244 (1) (b), 258	-
20d	of which: free deliveries (negative amount)	-	36 (1) (k) (iii), 379 (3)	-
21	Deferred tax assets that rely on future profitability and arise from temporary differences (amount above 10% threshold, net of related tax liability where the conditions of Article 38 (3) are met) (negative amount)	-	36 (1) (c), 38, 48 (1) (a), 470, 472 (5)	-
22	Amount exceeding the 15% threshold (negative amount)	-	48 (1)	-
23	of which: direct and indirect holdings of CET 1 instruments of financial sector entities in which the institution has a significant investment	_	36 (1) (i), 48 (1) (b), 470, 472 (11)	_
24	Empty set in the EU	-		-
25	of which: deferred tax assets that rely on future profitability and arise from temporary differences	-	36 (1) (c), 38, 48 (1) (a), 470, 472 (5)	
25a	Losses for the current financial year (negative amount)	-	36 (1) (a), 472 (3)	-
25b	Foreseeable tax charges relating to CET1 items (negative amount)	-	36 (1) (l)	-

		Amount as at 31 Dec 2017	Reference to applicable section of Regulation 575/2013/EU	Amounts to be recognised before the application of Regulation 575/2013/EU or residual amounts according to Regulation 575/2013/EU
€ mi 26	n Regulatory adjustments applied to Common Equity Tier 1 in respect of amounts subject to pre-CRR treatment	-		-
26a	Regulatory adjustments relating to unrealised gains and losses pursuant to Articles 467 and 468	12		-
	of which: filters and deductions applied to unrealised losses 1 (investments)	-	467	-
	of which: filters and deductions applied to unrealised losses 2 (defined benefit plans)	16	467	-
	of which: filters and deductions applied to unrealised losses 3 (afs securities)	-	467	-
	of which: filters and deductions applied to unrealised losses 4 (conversion differences)	1	467	-
	of which: filters and deductions applied to unrealised gains 1 (investments)	-	468	-
	of which: filters and deductions applied to unrealised gains 2 (defined benefit plans)	-	468	-
	of which: filters and deductions applied to unrealised gains 3 (afs securities)	-5	468	-
	of which: filters and deductions applied to unrealised gains 4 (conversion differences)	-	468	-
26b	Amount to be added or deducted from Common Equity Tier 1 capital in respect of additional filters and deductions, as well as deductions required for items subject to pre-CRR treatment	-841)	481	-
27	Qualifying Additional Tier 1 deductions exceeding the Additional Tier 1 capital of the institution (negative amount)	-	36 (1) (j)	-
28	Total regulatory adjustments to Common Equity Tier 1 (CET1) capital	-111		-
29	Common Equity Tier 1 (CET1) capital	2,305		-
Add	itional Tier 1 (AT1) capital: instruments			
30	Capital instruments and related share premium accounts	300	51, 52	
31	of which: classified as equity according to applicable accounting standards	300		-
32	of which: classified as liabilities according to applicable accounting standards	-		-
33	Amount of qualifying items referred to in Art. 484 (4) and the related share premium accounts subject to phase out from AT1	-	486 (3)	-
	Public-sector capital injections grandfathered until 1 Jan 2018	-	483 (3)	-
34	Qualifying Tier 1 instruments included in consolidated Additional Tier 1 capital (including minority interests not included in row 5) issued by subsidiaries and held by third parties		85, 86, 480	
35	of which: instruments issued by subsidiaries subject to phase out		486 (3)	
36	Additional Tier 1 (AT1) capital before regulatory adjustments	300	(-)	_
	itional Tier 1 (AT1) capital: regulatory adjustments		ļ	
37	Direct and indirect holdings of own Additional Tier 1 instruments (negative amount)	_	52 (1) (b), 56 (a), 57, 475 (2)	_

 $^{1)}$ This includes a preventive capital deduction of \in 70 million in connection with the ECB's review of credit processes.

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€ mi 38		Amount as at 31 Dec 2017	Reference to applicable section of Regulation 575/2013/EU	before the application of Regulation 575/2013/EU or residual amounts according to Regulation 575/2013/EU
38	n			
	Holdings of Additional Tier 1 instruments of financial sector entities where those entities have reciprocal cross holdings with the institution designed to inflate artificially the own funds of the institution (negative amount)	_	56 (b), 58, 475 (3)	_
39	Direct and indirect holdings of Additional Tier 1 instruments of financial sector entities in which the institution does not have a significant investment (amount above 10% threshold and net of eligible short positions) (negative amount)	_	56 (c), 59, 60, 79, 475 (4)	_
40	Direct and indirect holdings of Additional Tier 1 instruments of financial sector entities in which the institution has a significant investment (amount above 10% threshold and net of eligible short positions) (negative amount)	-	56 (d), 59, 79, 475 (4)	-
41	Regulatory AT1 adjustments in respect of amounts subject to pre-CRR treatment as well as transitional period arrangements, to which phasing out regulations pursuant to Regulation 575/2013/EU apply (i.e. CRR residual amounts)	_		-
41a	Residual amounts to be deducted from Additional Tier 1 capital in relation to items not deducted from Common Equity Tier 1 capital during the transitional period pursuant to Art. 472 of Regulation (EU) No. 575/2013	-5	472, 472 (3) (a), 472 (4), 472 (6), 472 (8) (a), 472 (9), 472 (10) (a), 472 (11) (a)	_
	of which: other intangible assets	-3		-
	of which: IRBA deficit	-2		-
41b	Residual amounts to be deducted from Additional Tier 1 capital in relation to items not deducted from Tier 2 capital during the transitional period pursuant to Article 475 of Regulation 575/2013/EU	_	477, 477 (3), 477 (4) (a)	-
41c	Amount to be added or deducted from Additional Tier 1 capital in respect of additional filters and deductions, as well as deductions required for items subject to pre-CRR treatment	-	467, 468, 481	_
42	Qualifying Tier 2 deductions exceeding the Tier 2 capital of the institution (negative amount)	-	56 (e)	-
43	Total regulatory adjustments to Additional Tier 1 (AT1) capital	-5		_
44	Additional Tier 1 (AT1) capital	295		-
45	Tier 1 capital (T1 = CET1 + AT1)	2,600		-
Tier	2 (T2) capital: instruments and reserves			
46	Capital instruments and related share premium accounts	879	62, 63	-
47	Amount of qualifying items referred to in Art. 484 (5) and the related share premium accounts subject to phase out from T2	14	486 (4)	4
	Governmental capital contributions with grandfathering rights until 1 Jan 2018	-	483 (4)	-
48	Qualifying own funds instruments included in consolidated Tier 2 capital (including minority interests and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by third parties	_	87, 88, 480	_
49	of which: instruments issued by subsidiaries subject to phase out	_	486 (4)	
50	Credit risk adjustments	51	62 (c) and (d)	
51	Tier 2 (T2) capital before regulatory adjustments	945		
Tier	2 (T2) capital: regulatory adjustments			
52	Direct and indirect holdings by an institution of own Tier 2 instruments and subordinated loans (negative amount)	_	63 (b) (i), 66 (a), 67, 477 (2)	

		Amount as at 31 Dec 2017	Reference to applicable section of Regulation 575/2013/EU	Amounts to be recognised before the application of Regulation 575/2013/EU or residual amounts according to Regulation 575/2013/EU
€m			I	
53	Holdings of Tier 2 instruments and subordinated loans of financial sector entities where those entities have reciprocal cross holdings with the institution designed to inflate artificially the own funds of the institution (negative amount)	_	66 (b), 68, 477 (3)	-
54	Direct and indirect holdings of Tier 2 instruments and subordinated loans of financial sector entities in which the institution does not have a significant			
	investment (amount above 10% threshold and net of eligible short positions) (negative amount)	_	66 (c), 69, 70, 79, 477 (4)	_
54a	of which: new positions not subject to transitional provisions		477 (4)	
	of which: positions that existed before 1 January 2013 and are subject to			
010	transitional provisions	-		-
55	Direct and indirect holdings by the institution of Tier 2 instruments and subordinated loans of financial sector entities in which the institution has a significant investment (net of eligible short positions) (negative amount)	-	66 (d), 69, 79, 477 (4)	-
56	Regulatory T2 adjustments in respect of amounts subject to pre-CRR treatment as well as transitional period arrangements, to which phasing out regulations pursuant to Regulation 575/2013/EU apply (i.e. CRR residual amounts)	-7		-
56a	Residual amounts to be deducted from Tier 2 capital in relation to items not deducted from Common Equity Tier 1 capital during the transitional period pursuant to Article 472 of Regulation 575/2013/EU	-2	472, 472 (3) (a), 472 (4), 472 (6), 472 (8) (a), 472 (9), 472 (10) (a), 472 (11) (a)	-
	of which: value adjustment deficit / expected losses from investments	-2		-
56b	Residual amounts to be deducted from Tier 2 capital in relation to items not deducted from Additional Tier 1 capital during the transitional period pursuant to Article 475 of Regulation 575/2013/EU	_	475, 475 (2) (a), 475 (3), 475 (4) (a)	_
56c	Amount to be added or deducted from Tier 2 capital in connection with additional filters and deductions, as well as deductions required in respect of amounts subject to pre-CRR treatment	_	467, 468, 481	_
57	Total regulatory adjustments to Tier 2 (T2) capital	-9		-
58	Tier 2 (T2) capital	936		-
59	Own funds (TC = T1 + T2)	3,536		-
59a	Risk-weighted assets in respect of amounts subject to pre-CRR treatment as well as transitional period regulations, to which phasing out regulations pursuant to Regulation 575/2013/EU apply (i.e. CRR residual amounts)	_		_
60	Total risk-weighted assets	11,785		-
Can	ital ratios and buffers		I	
61	Common Equity Tier 1 capital (as a percentage of total risk exposure amount)	19.56 %	92 (2) (a), 465	
62	Tier 1 capital (as a percentage of total risk exposure amount)	22.06 %	92 (2) (b), 465	_
63	Total capital (as a percentage of total risk exposure amount)	30.00 %	92 (2) (c)	-
64	Institution-specific buffer requirement (CET1 requirement in accordance with Article 92 (1) (a) plus capital conservation and countercyclical capital buffer			
	requirements, plus systemic risk buffer, plus systemically important institution (G-SII or O-SII) buffer expressed as a percentage of total risk exposure amount)	5.777 %	CRD 128, 129, 130	-
65	of which: capital conservation buffer requirement	1.250 %	0.12 120, 120, 100	
	the second s	0.027 %		

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		Amount as at 31 Dec 2017	Reference to applicable section of Regulation 575/2013/EU	Amounts to be recognised before the application of Regulation 575/2013/EU or residual amounts according to Regulation 575/2013/EU
€m				
67	of which: systemic risk buffer requirement	-		-
67a	of which: buffer for Global Systemically Important Institution (G-SII) or Other Systemically Important Institutions (O-SII)	-	CRD 131	-
68	Common Equity Tier 1 capital available to meet buffers (as a percentage of total risk exposure amount)	15.06 %	CRD 128	-
Сар	ital ratios and buffers			
72	Direct and indirect holdings of the capital of financial sector entities in which the institution does not have a significant investment (amount below 10% threshold and net of eligible short positions)	22	36 (1) (h), 45, 46, 472 (10), 56 (c), 59, 60, 475 (4), 66 (c), 69, 70, 477 (4)	-
73	Direct and indirect holdings of 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)	-	36 (1) (i), 45, 48, 470, 472 (11)	-
74	Empty set in the EU	-		
75	Deferred tax assets that rely on future profitability arising from temporary differences (amount below 10% threshold and net of related tax liability where the conditions of Art. 38 (3) are met)	103	(36) (1) (c), 38, 48, 470, 472 (5)	-
Арр	licable caps on the inclusion of provisions in Tier 2			
76	Credit risk adjustments included in Tier 2 in respect of exposures subject to standardised approach (prior to the application of the cap)	-	62	-
77	Cap on inclusion of credit risk adjustments in Tier 2 under standardised approach	-	62	-
78	Credit risk adjustments included in Tier 2 in respect of exposures subject to internal ratings-based approach (prior to the application of the cap)	80	62	-
79	Cap on inclusion of credit risk adjustments in Tier 2 under internal ratings-based approach	51	62	-
Сар	ital instruments subject to phase-out arrangements (only applicable between	n 1 Jan 2013 and	l 1 Jan 2022)	
80	Current cap on CET1 instruments subject to phase out arrangements	-	484 (3), 486 (2) and (5)	-
81	Amount excluded from CET1 due to cap (excess over cap after redemptions and maturities)	_	484 (3), 486 (2) and (5)	-
82	Current cap on AT1 instruments subject to phase out arrangements	-	484 (4), 486 (3) and (5)	-
83	Amount excluded from AT1 due to cap (excess over cap after redemptions and maturities)	_	484 (4), 486 (3) and (5)	_
84	Current cap on T2 instruments subject to phase out arrangements	7	484 (5), 486 (4) and (5)	-
85	Amount excluded from T2 due to cap (excess over cap after redemptions and maturities)	7	484 (5), 486 (4) and (5)	-

Compared to the disclosure date of 30 June 2017, the capital ratios (CET I, T I and TC ratio) increased by 2.4 percentage points on average. In this context, the decline in own funds with a simultaneous increase of Common Equity Tier I capital has been overcompensated by \in 1.56 billion, due to a decrease in risk-weighted assets (RWA).

Key driver for this decrease in RWA was the decline in the property financing portfolio, attributable especially to the reduction of non-core assets as well as a high level of early loan repayments, whereas the decline in own funds was mainly due to matured capital instruments as part of Additional Tier I and Tier 2 capital. In addition, the silent participation in the amount of \in 180 million, which was included in Additional Tier I, was withdrawn.

Reconciliation from equity, as disclosed in the Statement of Financial Position to regulatory capital

	Equity according to reporting scope of consolidation	Equity according to regulatory scope of consolidation	Regulatory capital according to regulatory scope of consolidation
€mn			
Subscribed capital	180	180	180
Capital reserves	721	721	721
Retained earnings	1,798	1,748	1,580
AT1 bond ¹⁾	300	300	-
Other reserves	-77	-64	-64
Reserve from remeasurements of defined benefit plans	-91	-82	-82
Revaluation reserve	24	24	24
Hedging reserve	-1	-1	-1
Currency translation reserve	-9	-5	-5
Non-controlling interests	2	-	-
Common Equity Tier 1 (CET1) capital before regulatory adjustments	2,924	2,885	2,416
Regulatory adjustments	-	-	-111
Amounts to be deducted	-77	-16	-39
Intangible assets	-77	-16	-16
Goodwill	-85	-5	-5
Other intangible assets	-68	-11	-11
Deferred tax assets that rely on future profitability and do not result from temp. differences	_	_	-5
IRB deficit (non-defaulted exposures)	-	-	-18
Qualified investment outside the financial sector (alternative risk weighting 1,250%)) –	-	_
Deductible deferred tax assets that rely on future profitability and result from temp. differences	_	_	-
Prudential filters	-	-	-9
Hedging reserve	-	-	1
Prudent valuation allowances	-	-	-10
Adjustments (transitional arrangements)	-	-	20
Deductions pursuant to Art. 3 of the CRR	-	-	-84
Common Equity Tier 1 (CET1) capital	-	-	2,305

¹⁾ Consideration within Additional Tier 1 (AT1) capital.

	Equity according to reporting scope of consolidation	Equity according to regulatory scope of consolidation	Regulatory capital according to regulatory scope of consolidation
€mn			
AT1 bond	-	-	300
AT1 capital instruments with grandfathering rights	-	-	-
Non-controlling interests	-	-	-
Contributions by silent partners	-	-	-
Amounts to be deducted			
Other intangible assets	-	-	-3
IRB deficit (non-defaulted exposures)	-	-	-2
Additional Tier 1 (AT1) capital	-	-	295
Tier 1 capital (T1)	-	-	2,600
Capital instruments and subordinated loans eligible as Tier 2 capital	1,200	1,200	879
Subordinated liabilities	1,007	1,007	879
Non-controlling interests	-	-	_
Contributions by silent partners	193	193	-
T2 capital instruments with grandfathering rights	65	65	8
Subordinated liabilities	53	53	7
Profit-participation certificates	12	12	1
Amounts to be deducted	-	-	-2
IRB deficit (non-defaulted exposures)	-	-	-2
IRB surplus (defaulted exposures)	-	-	51
Tier 2 capital (T2)	-	-	936
Total capital (TC)	-	-	3,536

Regulatory capital requirements

The capital requirements for a transaction's counterparty credit risk under the CRSA are essentially based on the following:

- the regulatory classification (balance sheet, off-balance sheet, or derivatives business);
- 2. the amount of the loan at the time of default (EaD)

and, under the AIRBA, additionally depends on

- 3. the probability of default as well as
- 4. the loss given default percentage.

The credit conversion factors for off-balance sheet transactions are predefined by the supervisory authorities for capital requirements under the CRSA. The borrowers are subdivided into exposure classes; the exposure amounts are risk-weighted, based on their external ratings.

As at 31 December 2017, no risks associated with outstanding delivery as part of counterparty risks had to be taken into account when determining counterparty usage limits.

Aareal Bank complied with minimum regulatory capital requirements, pursuant to the Basel I floor under the CRSA, as at 31 December 2017. Hence, there were no resulting adjustments to that floor (and the associated inclusion of additional riskweighted assets (RWAs).

Based on the AIRBA or CRSA calculation approach, the following RWAs and capital requirements were determined as at the reporting date for the types of risk that are relevant for regulatory purposes.

EU OV1: Overview of risk-weighted assets (RWA)

			RWAs	Minimum capital requirements
		31 Dec 2017	30 Jun 2017	31 Dec 2017
€n	ท			
1	Credit risk (excluding CCR)	9,311	10,549	745
2	Credit Risk Standard Approach (CRSA)	1,157	1,774	93
3	IRB Foundation Approach (FIRB)	-	-	
4	Advanced IRB Approach (AIRB)	6,983	7,579	559
5	Equity IRB under the simple risk-weighted approach or the IMA	1,171	1,195	94
6	CCR	651	716	52
7	Mark to market	441	527	35
8	Original exposure	-	-	-
9	Standardised approach	-	-	-
10	Internal model method (IMM)	-	-	-
11	Risk exposure amount for contributions to default fund of a CCP	0	0	0
12	CVA	209	189	17
13	Settlement risk	-	-	-
14	Securitisation exposures in the banking book (after the cap)	-	-	-
15	IRB approach	-	-	-
16	IRB supervisory formula approach (SFA)	-	-	-
17	Internal assessment approach (IAA)	-	-	-
18	Standardised approach	-	-	-
19	Market risk	134	224	11
20	Standardised approach	134	224	11
21	IMA	-	-	-
22	Large exposures	-	-	-
23	Operational risk	1,433	1,433	115
24	Basic indicator approach	-	-	
25	Standardised approach	1,433	1,433	115
26	Advanced measurement approach	-	-	-
27	Amounts below the thresholds for deduction (subject to 250 % risk weight)	257	423	21
28	Floor adjustment	-	-	_
29	Total	11,785	13,345	943

Risk-weighted assets declined by \in 1,560 million compared to the disclosure reporting date of 30 June 2017. As already explained in the Regulatory Capital chapter, this development was attributable, in particular, to the decline in the property financing portfolio, due especially to the reduction of non-core assets as well as a high level of early loan repayments. The simple risk weight method is exclusively used to determine the capital requirements of the equity investments reported under the AIRBA. In the following table, the equity investments reported under the AIRBA and previously disclosed on a consolidated level – for which the simple risk weight method is used exclusively pursuant to Article 155 (2) of the CRR – are disclosed separately according to the risk exposures determined in the Regulation. Aareal Bank held no specialised lending in its portfolio as at the current disclosure date. Given a more differentiated interpretation applied by the ECB, we are currently reviewing the classification of IRBA exposures classified as "specialised lending" pursuant to Article 147 (8) of the CRR, and will adjust this if necessary.

EU CR10: IRB (specialised lending and equities)

Regulatory	Remaining maturity			Specialised	lending		
categories		On-balance- sheet amount	Off-balance- sheet amount	Risk weighting	Exposure at Default	RWAs	Expected losses
€mn							
Category 1	Less than 2.5 years	-	-	50 %	-	-	-
	Equal to or more than 2.5 years	_	_	70 %	-	-	_
Category 2	Less than 2.5 years	_	-	70 %	-	-	_
	Equal to or more than 2.5 years	_	_	90 %	-	-	-
Category 3	Less than 2.5 years	_	_	115 %	-	-	-
	Equal to or more than 2.5 years	_	-	115 %	-	-	_
Category 4	Less than 2.5 years	_	_	250 %	-	-	-
	Equal to or more than 2.5 years	_	_	250 %	-	-	-
Category 5	Less than 2.5 years	_	-	-	-	-	_
	Equal to or more than 2.5 years	_	-	-	-	-	-
Total	Less than 2.5 years	_	-		-	-	-
	Equal to or more than 2.5 years	-	-		-	-	-

	Equities under the simple risk-weighted approach									
On-balance- sheet amount	Off-balance- sheet amount	Risk weight	Exposure at Default	RWAs	Regulatory capital requirements					
-	-	190 %	_	_	_					
0	-	290 %	0	0	0					
316	-	370 %	316	1,171	94					
316	-		316	1,171	94					
	sheet amount - 0 316	On-balance- sheet amount Sheet amount	On-balance- sheet amountOff-balance- sheet amountRisk weight190 %0-290 %316-370 %	On-balance- sheet amountOff-balance- sheet amountExposure at Default190 %-0-290 %0316-370 %316	On-balance- sheet amountOff-balance- Risk weightExposure at DefaultRWAs0-290 %0316-370 %3161,171					

Countercyclical Capital Buffer

The countercyclical capital buffer (CCB) is a macroprudential tool used by banking supervisors to counteract the risk of excessive credit growth in the banking sector and to contribute building up an additional capital buffer to provide for hard times. The purpose of the capital buffer is to increase the loss-absorbing capacity of banks throughout the credit cycle. The value for the CCB usually amounts to between 0 and 2.5 %; it is determined on a quarterly basis by the national supervisory authority of the respective country, based on a variety of economic factors, in particular the ratio of lending volumes to gross domestic product.

The institution-specific countercyclical capital buffer is calculated as the weighted average of the countercyclical capital buffers applicable to the countries where the respective institution is exposed to significant credit risks. The institution is obliged to maintain this weighted average as a percentage of risk-weighted assets (RWAs) in the form of Common Equity Tier I capital. Significant credit risk exposures are defined in section 36 of the German Solvency Regulation (Solvabilitäts-verordnung – "SolvV") and comprise exposures to corporate and private customers.

The countercyclical capital buffer requirements have been applicable since I January 2016, when the ramp-up phase was launched: the institutionspecific countercyclical capital buffer was/is limited to 0.625 % in 2016, to 1.25 % in 2017, and to 1.875 % in 2018. The regulatory requirements have to be fully complied with as from I January 2019.

The two following disclosure tables are based on the requirements set out in the Commission Delegated Regulation (EU) 2015/1555 of 28 May 2015.

Amount of institution-specific countercyclical capital buffer

		31 Dec 2017
€mn		
010	Total risk exposure amount	11,785
020	Institution-specific countercyclical capital buffer ratio	0.03 %
030	Institution-specific countercyclical capital buffer requirement	3

Geographical distribution of significant credit risks

		General credit risk exposures				Securitisation Regulatory capital requirements exposure			Weightings of regula- tory capital require-	Counter- cyclical capital buffer ratio			
		CRSA exposure value	IRBA exposure value	Sum of long and short positions in the trading book	Exposure value in trading book (internal models)	CRSA exposure value	IRBA exposure value	of which: general credit risk exposures	of which: trading book exposures	of which: securi- tisation exposure	Total	ments	
		€mn	€mn	€mn	€mn	€mn	€mn	€mn	€mn	€mn	€mn	%	%
010	Germany	1,546	4,694	_	-	-	-	231	-	-	231	0.31	0.00
	Belgium	42	311	-	-	-	-	4	-	-	4	0.01	0.00
	Austria	31	309	-	-	-	-	6	-	-	6	0.01	0.00
	Switzerland	0	323	_	-	_	-	3	-	-	3	0.00	0.00
	France	58	2,053	-	-	-	-	33	-	-	33	0.04	0.00
	United Kingdom	86	3,988	_	-	_	-	63	-	-	63	0.08	0.00

			General credit risk exposures		Trading book exposures		tisation osure	Regulatory capital requirements		Weightings of regula- tory capital require-	Counter- cyclical capital buffer ratio		
		CRSA exposure value	IRBA exposure value	Sum of long and short positions in the trading book	Exposure value in trading book (internal models)	CRSA exposure value	IRBA exposure value	of which: general credit risk exposures	of which: trading book exposures	of which: securi- tisation exposure	Total	ments	
		€mn	€mn	€mn	€mn	€mn	€mn	€mn	€mn	€mn	€mn	%	%
	Ireland	-	7	-	-	_	-	2	-	-	2	0.00	0.00
	Luxembourg	31	35	_	-	_	-	6	-	-	6	0.01	0.00
	Netherlands	63	1,018	_	-	_	-	13	-	-	13	0.02	0.00
	Denmark	4	445	-	-	-	-	26	-	-	26	0.04	0.00
	Norway	_	5	-	-	_	-	0	-	-	0	0.00	2.00
	Sweden	0	443	-	-	-	-	9	-	-	9	0.01	2.00
	Finland	_	434	-	-	_	-	8	-	-	8	0.01	0.00
	Italy	11	2,846	-	-	-	-	183	-	-	183	0.25	0.00
	Spain	67	923	-	-	_	-	15	-	-	15	0.02	0.00
	Turkey	-	332	-	-	_	-	13	-	-	13	0.02	0.00
	Czech Republic	8	94	-	-	_	-	4	-	-	4	0.00	0.50
	Hungary	83	-	-	-	_	-	3	-	-	3	0.00	0.00
	Poland	102	746	-	-	_	-	15	-	-	15	0.02	0.00
	Estonia	-	56	-	-	_	-	1	-	-	1	0.00	0.00
	Russia	-	468	-	-	-	-	23	-	-	23	0.03	0.00
	US	39	6,106	-	-	_	-	65	-	-	65	0.09	0.00
	Canada	-	676	-	-	_	-	5	-	-	5	0.01	0.00
	China	-	180	-	-	-	-	12	-	-	12	0.02	0.00
	Maldives	-	134	-	-	_	-	3	-	-	3	0.00	0.00
020	Total	2,171	26,626	-	-	-	-	746	-	-	746	1.00	

Credit Risk and General Information on the Credit Risk Mitigation

Aareal Bank defines credit risk – or counterparty credit risk – as the risk of losses being incurred due to (i) a business partner defaulting on contractual obligations; (ii) collateral being impaired; or (iii) a risk arising upon realisation of collateral. Both credit business and trading activities may be subject to counterparty credit risk. Counterparty credit risks from trading activities may refer to risk exposure vis-à-vis counterparties or issuers. Country risk is also defined as a form of counterparty credit risk.

Credit risk strategy

Within the framework of the three-continent strategy pursued in the Structured Property Financing segment, Aareal Bank Group aims to build a balanced business property finance portfolio, in terms of regions, products, types of property and client groups. Dependencies, as well as risk concentrations, are reduced through diversification.

The credit risk strategy sets the material aspects of Aareal Bank's credit risk management and policies. The Bank's credit risk strategy comprises the Group credit risk strategy (as a general guideline) plus individual sub-strategies called Lending Guidelines. Given the hierarchical structure of the credit risk strategy, the Group Credit Risk Strategy overrides individual sub-strategies. These rules serve as a

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guideline for generating new business. The organisational structure and workflows tailored towards credit risk management as well as the implemented procedures used for measuring, managing and monitoring risk exposure are described in detail in the Annual Report.¹⁾ The Annual Report also includes descriptions of strategies and processes used to monitor the current effectiveness of the measures taken for risk protection and risk mitigation.

Allowance for credit losses

The best way to provide for risks is to carefully review such risks before granting a loan. We embrace this fundamental principle by adopting a multi-level review process, using (amongst others) our well-trained, experienced employees in the credit divisions.

As a property finance specialist, we not only focus on the borrower's credit rating but also carry out an in-depth analysis of the value and profitability of the property pledged as collateral.

Despite all the due care taken, events occasionally occur that can lead to impairment or even default. Our credit management teams are obliged to follow certain rules for these receivables when the first signs emerge that a loan might become impaired.

Our specialised and high-volume business requires us to maintain close contact with clients. Apart from events that can be determined objectively, such as when a loan is in arrears, or when a borrower fails to meet disclosure duties, the first signs of potential problems comprise a series of soft factors.

The responsible loan manager is informed of such soft factors, for example, by analysing performance reports. If there is evidence of events that could hamper the continuity of payments, the exposure is flagged in line with the risks involved.

The intensity of the attendant measures to be taken depends on the extent of the potential default, the internal assessment of the borrower/property, plus time-related and legal issues. All events are examined on a case-by-case basis.

Definition of terms and allowance process

The concept of "impaired" loans is commonly used in a financial reporting context, albeit not in our credit organisation. We have therefore translated the requirements of article 442 lit. a) of the CRR to our internal processes. All loans that are more than nine days in arrears are deemed to be in default for accounting purposes.

Specific allowances for credit losses are recognised for receivables of material size where expected future cash flows fall below the carrying amount of a loan receivable. This is the case when it is probable (due to observable criteria) that not all interest and principal payments can be made as contractually agreed. The estimated recoverable amount is determined on the basis of the present values of expected future cash flows from the asset (taking into account the marketability of collateral provided). If debt servicing can be made from the borrower's other assets on an ongoing basis, a cash flow deficit in relation to the financed project does not justify the recognition of allowances for credit losses.

Property loans for which allowances have been recognised are referred to internally as non-performing loans. The loans remain in this category until problems have been fully remedied, or the loan has been settled. Uncollectable (residual) receivables are written off against specific allowances for credit losses recognised previously, or written off directly.

In the context of assets measured at amortised cost and not subject to specific allowances for credit losses, portfolio-based allowances for credit losses are recognised for risks which have already materialised, but which cannot be allocated to individual loans and advances due to lack of knowledge. For this purpose, groups of financial

¹⁾ Aareal Bank Group 2017 Annual Report in the Risk Report, chapter "Credit Risks", pages 57 et seqq.

assets with comparable default risk profiles are combined in portfolios. The allowances are calculated using a formula-based procedure, based on the following risk parameters used in the Advanced IRB Approach: expected loss given default (LGD), probability of default (PD) and the LIP factor. The LIP factor is a correction factor to adjust the oneyear probability of default (used in Basel III) to the estimated time period, between the date the loss is incurred and the identification of the actual loss. The LIP factor, uniformly applied across all asset classes, is 1.

Provisions for loans are set aside for commitments to third parties if utilisation is probable and the amount of the commitment can be reasonably estimated. Provisions are measured on the basis of the best estimate of the expenditure required to settle the obligation, in accordance with IAS 3736. If utilisation in the short term, i.e. within twelve months, from the obligation is not expected, the provision will be recognised at present value.

In addition to the allowance process for property lending, the Annual Report¹⁾ includes a description of the impairment process for securities belonging to the IFRS categories "Available-for-Sale" (AfS), "Held to Maturity" (HtM) and "Loans and Receivables" (LaR).

Forbearance

"Forbearance" means concessions in the form of contractual amendments vis-à-vis a debtor which is in financial difficulty (or would be in financial difficulty, at the time of the contractual amendments, without the forbearance measure), enabling the debtor to meet its payment obligations.

General quantitative information on credit risks

The information to be disclosed in this chapter pursuant to Article 442 lit. c) to f) of the CRR is based on the solvency data reported to the banking regulators, on the basis of the regulatory scope of consolidation.

The valuation of off-balance sheet items as well as assets carried on the balance sheet included in regulatory reporting is made in accordance with the International Financial Reporting Standards (IFRSs).

Considering the net exposures to be disclosed in the following tables with regard to exposures reported under the AIRBA, it needs to be noted that the related allowance for credit losses does not reduce the assessment basis, but is considered in the comparison of value adjustments pursuant to Article 159 of the CRR in the determination of regulatory own funds.

Exposures resulting from counterparty credit risk exposures are not taken into account; these are disclosed separately in this report.

Average amount of exposures during the financial year

The table EU CRB-B shows – in accordance with Article 442 lit. c) of the CRR in conjunction with EBA guidelines – the total and average net amount of exposures as per the reporting date, in line with CRSA and IRBA exposure classes.

¹⁾ Aareal Bank Group 2017 Annual Report: chapter "Accounting Policies" in the Notes to the consolidated financial statements, Note (6), pages 103 et seqq.

EU CRB-B: Total and average net amount of exposures

		а	b
		Net value of exposures	Average net exposures
		at the end of the period	over the period
€m	n		
2	Institutions	1,438	1,780
3	Corporates	25,479	25,980
4	of which: Specialised lending	-	-
5	of which: SMEs	16,784	16,278
14	Equity exposures	316	320
14a	Other non-credit obligation assets	630	526
15	Total IRB approach	27,863	28,606
16	Central governments or central banks	5,362	4,978
17	Regional governments and similar entities	3,940	4,178
18	Other public-sector entities	1,941	1,972
19	Multilateral development banks	264	265
20	International organisations	443	446
21	Institutions	0	41
22	Corporates	491	660
23	of which: SMEs	332	405
24	Retail	170	195
25	of which: SMEs	-	-
26	Exposures secured by mortgages on immovable property	1,555	1,950
27	of which: SMEs	588	831
28	Exposures in default	18	57
29	Items associated with particularly high risk	-	-
30	Covered bonds	-	-
31	Claims on institutions and corporates with a short-term credit assessment	_	_
32	Collective investment undertakings (CIU)	-	0
33	Equity exposures	-	0
34	Other exposures	-	4
35	Total standardised approach	14,184	14,746
36	Total	42,047	43,352

Breakdown by major geographical segments

The presented breakdown (pages 30/31) of the total exposure amount by major geographical markets to be disclosed is based on our three-continent strategy, which covers Europe, North America and Asia, as explained in our Annual Report. The breakdown criterion used is the country the respective property used as collateral is located in. Moreover, countries in which the exposure amounts to at least \in 300 million (before consideration of loan loss provisions) are now listed separately for each region (Germany excluded) for the first time. All remaining countries are listed under item "Others".

EU CRB-C: Geographical breakdown of exposures

	а	b				
	Germany	Westerrn Europe	Austria	Belgiun	Switzerland	
€mn						
1 Institutions	242	786	-	8	-	
2 Corporates	4,236	7,741	308	336	310	
3 Equity exposures	236	58	-	0	_	
3a Other non-credit obligation assets	-	-	-	-	-	
4 Total IRB approach	4,714	8,585	308	344	310	
5 Central governments or central banks	2,555	1,081	836	-	4	
6 Regional governments and similar entities	3,619	37	36	-		
7 Other public-sector entities	1,494	412	196	7	-	
8 Multilateral development banks	-	-	-	-	-	
9 International organisations	-	-	-	-	-	
10 Institutions	-	-	-	-	-	
11 Corporates	326	78	4	14	-	
12 Retail	170	-	-	-	-	
13 Exposures secured by mortgages on immovable property	1,098	232	26	28	-	
14 Exposures in default	16	-	-	-	-	
15 Items associated with particularly high risk	-	-	-	-	-	
16 Covered bonds	-	-	-	-	-	
17 Claims on institutions and corporates with a short-term credit assessment	-	-	-	-	-	
18 Collective investment undertakings (CIU)	-	-	-	-	-	
19 Equity exposures	-	-	-	-	_	
20 Other exposures	-	-	-	-	_	
21 Total standardised approach	9,278	1,840	1,098	49	4	
22 Total	13,992	10,425	1,406	393	314	

			e	е		
,	Spain	Italy	Other countries	Eastern Europe	Poland	
€mn						
1 Institutions	30	20	-	1	1	<u> </u>
2 Corporates	849	2,672	-	1,608	713	<u> </u>
3 Equity exposures	-	-	-	-	· – '	<u> </u>
3a Other non-credit obligation assets	-	-	-		-	<u> </u>
4 Total IRB approach	879	2,692	-	1,609	714	<u> </u>
5 Central governments or central banks	-	1,470	54	188	162	
6 Regional governments and similar entities	218	4	30	-	-	<u> </u>
7 Other public-sector entities	-	-	35	-	-	<u> </u>
8 Multilateral development banks	-	-	-	-	-	<u> </u>
9 International organisations	-	-	-	-	-	· · · · · · · · · · · · · · · · · · ·
10 Institutions	-	-	-	-	-	<u> </u>
11 Corporates	10	2	-	33	33	
12 Retail	-	-	-	-	-	
13 Exposures secured by mortgages on immovable property	57	8	-	159	69	
14 Exposures in default	-	2	-	-	-	
15 Items associated with particularly high risk	-	-	-	-	-	
16 Covered bonds	-	-	-	-	-	
17 Claims on institutions and corporates with a short-term credit assessment	-	-	-	-	-	
18 Collective investment undertakings (CIU)	-	-	-	-	-	
19 Equity exposures	-	-	-	-	-	
20 Other exposures		-	-		-	
21 Total standardised approach	285	1,486	119	380	264	
22 Total	1,164	4,178	119	1,989	978	

	Net	value		С					d
France	United Kingdom	Netherlands	Other countries	Northern Europe	Denmark	Finland	Sweden	Other countries	Southern Europe
78	566	134	0	114	110	-	3	-	50
1,984	3,854	914	35	1,289	414	430	440	5	3,521
15	18	18	7	22	-	-	22	-	-
-		-	-		-		-		
2,077	4,438	1,066	42	1,425	524	430	465	5	3,571
83	158	-	-	2	-	1	1		1,524
1		-	-	-	-		-		252
209	-	-	-	-	-		-	-	35
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
18	9	23	10	1	1	-	-	-	12
-	-	-	-	-	-	-	-	-	-
25	78	39	36	3	3	-	-	-	65
-	-	-	-	-	-		-	-	2
-	-	-	-	-	-		-		
-	-	-	-	-	-		-	_	
-		-	-	-	_	-	-		
-	-	-	-	-	-	-	-	_	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
336	245	62	46	6	4	1	1	-	1,890
2,413	4,683	1,128	88	1,431	528	431	466	5	5,461

Netvalue g h f Russia Other countries North America Canada USA Other countries Asion Other countries Total - <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>									
- 0 176 54 122 - 69 - 1,438 461 433 6,771 675 6,096 - 313 - 25,479 - - - - - 313 - 25,479 - - - - - 316 313 - 25,479 - - - - - - 313 - 25,479 - - - - - - - 316 316 - - - - - - - 318 3630 27,863 - - - - - - 311 - 3939 - - - - - - - 313 443 - - - - - - - - - - - -	f	h	g				f value	Net	
4614336,7716756,09631325,4793163306304614336,9477296,2183826306334613125,3621225,3623133,9393133,9393133,9393,9393133,939314433	Total	Other countries	Asien	Other countries	USA	Canada	North America	Other countries	Russia
4614336,7716756,09631325,4793163306304614336,9477296,2183826306334613125,3621225,3623133,9393133,9393133,9393,9393133,939314433									
3166306304614336,9477296,21833263027,8633315,362313,939313,939313,939313,939313,93931443314431,941	1,438	-	69	-	122	54	176	0	-
$$ $$	25,479	-	313	-	6,096	675	6,771	433	461
4614336,9477296,21838263027,863 $ 26$ $ 12$ 5,362 $ 31$ $ 3,939$ $ 31$ $ 3,939$ $ 1,941$ $ -$ <	316	-	-	-	-	-	-	-	-
- $ -$	630	630	-	-	-	-		-	-
- $ 31$ $ 3,939$ $ 1,941$ $ 1,941$ $ 264$ 264 $ 264$ 264 $ 443$ 443 $ 443$ 443 $ -$ </th <th>27,863</th> <th>630</th> <th>382</th> <th>-</th> <th>6,218</th> <th>729</th> <th>6,947</th> <th>433</th> <th>461</th>	27,863	630	382	-	6,218	729	6,947	433	461
$$ $$	5,362	12	-	-	-	-	-	26	-
$$ $$ $$ $$ 264 264 $$ $$ $$ $$ $$ -443 443 $$ <t< th=""><th>3,939</th><th>-</th><td>31</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></t<>	3,939	-	31	-	-	-	-	-	-
$$ $$ $$ -443 443 $$ $$ $$ $$ $$ -40 $$ $$ $$ $$ $$ $$ $$ $$ $$ 490 $$ $$ $$ $$ $$ $$ $$ 490 $$ $$ $$ $$ $$	1,941	-	-	-	-	-	-	-	-
- $ -$ <	264	264	-	-	-	-	-	-	-
40 40 490 170 90 170 90 170 90 170 90 1,557 1,557 1,857 1,857 <td< th=""><th>443</th><th>443</th><th>-</th><th>-</th><th>-</th><th>-</th><th>-</th><th>-</th><th>-</th></td<>	443	443	-	-	-	-	-	-	-
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	-	-	-	-	-	-	-	-	-
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	490	-	-	-	40	-	40	-	-
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	170	-	-	-	-	-	-	-	-
- -	1,557	-	-	-	-	-	-	90	-
- -	18	-	-	-	-	-	-	-	-
- -	-	-	-	-	-	-	-	-	-
- -	-	-	-	-	-	-	-	-	-
- - - - - - - - - - - - - - - - 116 40 - 40 - 31 719 14,184	-	-	-	-	-	-	-	-	-
- -	-	-	-	-	-	-	-	-	-
<u>- 116 40 - 40 - 31 719 14,184</u>	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
461 549 6,987 729 6,258 – 413 1,349 42,047	14,184	719	31	-	40	-	40	116	-
	42,047	1,349	413	-	6,258	729	6,987	549	461

Breakdown by borrower group

We monitor the borrower groups by assigning counterparties to four groups, using the industry codes defined by Deutsche Bundesbank. Besides equity investments, the "Other" borrower group includes all other sectors. With a share of 31.4 %, the "Corporates" borrower group accounted for the largest share in new business in terms of property type, followed by hotels (26.0 %), retail (23.9 %) and logistics properties (6.0 %).

EU CRB-D: Concentration of exposures by industry or counterparty types

		а	b	c Net value	d	е
		Institutions	Public-sector entities	Corporates	Other	Total
€mn						
2	Institutions	1,394	44	_	_	1,438
3	Corporates	-	-	25,471	8	25,479
5	Equity exposures	_	-	302	14	316
5a	Other non-credit obligation assets				630	630
6	Total IRB approach	1,394	44	25,773	652	27,863
7	Central governments or central banks	2,082	3,280	_	_	5,362
8	Regional governments and similar entities	-	3,940	_	_	3,940
9	Other public-sector entities	1,463	477	_	1	1,941
10	Multilateral development banks	264	-	_	_	264
11	International organisations	_	443	_	_	443
12	Institutions	_	-	_	_	_
13	Corporates	_	-	465	26	491
14	Retail	_	-	13	157	170
15	Exposures secured by mortgages on immovable property	_	-	942	613	1,555
16	Exposures in default	-	-	6	12	18
17	Items associated with particularly high risk	_	-	_	_	-
18	Covered bonds	_	-	_	-	-
19	Claims on institutions and corporates with a short-term credit assessment	_	-	_	-	_
20	Collective investment undertakings (CIU)	_	-	-	_	_
21	Equity exposures	_	-	-	-	-
22	Other exposures	_	-	-	-	-
23	Total standardised approach	3,809	8,140	1,426	809	14,184
24	Total	5,203	8,184	27,199	1,461	42,047

Breakdown by remaining term to maturity

The remaining term to maturity is determined on the basis of the contractually agreed term of all on-balance sheet and off-balance sheet transactions. The column "On demand" comprises exposures due on demand.

EU CRB-E: Maturity of exposures

		а	b	c Net expo	d sure value	е	f
		On demand	≤ 1 year	> 1 year ≤ 5 years	> 5 years	No stated maturity	Total
€mn							
2	Institutions	106	831	325	176	-	1,438
3	Corporates	433	2,828	14,516	7,702	-	25,479
5	Equity exposures	-	-	-	-	316	316
5a	Other non-credit obligation assets	136	-	-	-	494	630
6	Total IRB approach	675	3,659	14,841	7,878	810	27,863
7	Central governments or central banks	2,093	128	522	2,619	-	5,362
8	Regional governments and similar entities	138	396	1,549	1,857	-	3,940
9	Other public-sector entities	0	181	1,567	193	-	1,941
10	Multilateral development banks	_	-	244	20	-	264
11	International organisations	-	8	435	-	-	443
12	Institutions	0	-	-	-	-	-
13	Corporates	45	75	147	224	-	491
14	Retail	1	1	8	160	-	170
15	Exposures secured by mortgages on immovable property	0	235	450	870	_	1,555
16	Exposures in default	9	0	3	6	-	18
17	Items associated with particularly high risk	-	-	-	_	-	-
18	Covered bonds	-	-	-	-	-	-
19	Claims on institutions and corporates with a short-term credit assessment	_	_	_	_	-	_
20	Collective investment undertakings (CIU)	-	-	-	-	-	-
21	Equity exposures	-	-	-	-	-	-
22	Other exposures	-	-	-	-	-	-
23	Total standardised approach	2,286	1,024	4,925	5,949	-	14,184
24	Total	2,961	4,683	19,766	13,827	810	42,047

Quantitative information on credit quality of exposures

In the following tables, the breakdown of past due and impaired exposures and the related allowances required by Article 442 lit. g) and h) of the CRR, as submitted to banking supervisors as part of Solvency reporting, are disclosed with different levels of detail. As part of the implementation of the EBA guidelines, the exposures in tables EU CR1-A to EU CR1-C must be classified as to whether a default under the terms of Article 178 of the CRR exists or not.

Pursuant to Article I of the Commission Delegated Regulation (EU) No. 183/2014, general and specific credit risk adjustments require the inclusion of all amounts "... by which an institution's Common Equity Tier I capital has been reduced in order to reflect losses exclusively related to credit risk according to the applicable accounting framework and recognised as such in the profit or loss account, irrespective of whether they result from impairments, value adjustments or provisions for off-balance sheet items."

As at the reporting date, Aareal Bank Group's allowance for credit losses comprises both specific and portfolio-based allowance for credit losses, which can be allocated to specific credit risk adjustments.

Uncollectable loans and advances are derecognised against specific provisions recognised previously, or written off directly. Direct write-offs are shown in the "Accumulated write-offs" column of the following tables, for information only.

Credit risk adjustment charges disclosed in column f) of tables EU CR1-A to EU CR1-C comprise allowance for credit losses recognised and reversed during the reporting period.

EU CR1-A: Credit quality of exposures by exposure class and instrument

		а	b	С	d	е	f	g
		Gross carry	ing values of					Net values
		Defaulted exposures	Non-defaulted exposures	Specific credit risk adjustment	General credit risk adjustment	Accumu- lated write-offs	Credit risk adjustment charges of the period	(a+b-c-d)
€mr	- ו							
2	Institutions	-	1,439	1	-	_	0	1,438
3	Corporates	1,721	24,292	534	-	49	1	25,479
4	of which: Specialised lending	-	-	-	-	-	-	-
5	of which: SMEs	1,393	15,809	417	-		-17	16,785
14	Equity	-	316	-	-	-	-	316
	Other non-credit obligation assets	-	630	-	-	-	-	630
15	Total IRB approach	1,721	26,677	535	-	49	1	27,863
16	Central governments or central banks	-	5,362	1	-	-	0	5,361
17	Regional governments and similar entities	-	3,941	0	-	-	0	3,940
18	Other public sector entities	-	1,941	0	-	_	-	1,941
19	Multilateral development banks	-	264	-	-	-	-	264
20	International organisations	-	443	-	-	-	-	443
21	Institutions	-	0	-	-	-	0	0
22	Corporates	14	492	3	_	8	3	503
23	of which: SMEs	5	333	1	-	-	0	337

		а	b	С	d	е	f	g
		Gross carry	ing values of					Net values
				0	Ormanal	• • • • • • • • • •	Credit risk	
		Defaulted	Non-defaulted	Specific credit risk	General credit risk	Accumu- lated	adjustment charges of the	
		exposures	exposures	adjustment	adjustment	write-offs	period	(a+b-c-d)
€mr	1							
24	Retail	6	170	1	-	-	1	175
25	of which: SMEs	-	-	-	-	-	-	-
26	Secured by mortgages on immovable							
	property	1	1,556	0	-	-	7	1,557
27	of which: SMEs	-	588	0	-	-	0	588
28	Exposures in default	21	-	3	-	-	10	18
29	Items associated with particularly							
	high risk	-	-	-	-	-	-	-
30	Covered bonds	-	-	-	-	-	-	-
31	Claims on institutions and corporates							
	with a short-term credit assessment	-	-	-	-	_	-	-
32	Collective investment undertakings (CIU)	-	_	-	-	-	-	-
33	Equity exposures	-	-	-	-	-	-	-
34	Other exposures	-	-	-	-	-	-	-
35	Total standardised approach	21	14,169	5	-	8	11	14,184
36	Total	1,742	40,846	540	-	57	12	42,047
37	of which: Loans	1,634	29,637	536	-	57	9	30,735
38	of which: Debt securities	-	8,535	1	-	-	0	8,534
39	of which: Off-balance-sheet exposures	107	1,714	3	-	-	3	1,818

Table EU CR1-A above additionally includes the figures for exposures in default listed in line 28 for the original CRSA exposure classes (Corporates, Retail, and exposures secured by mortgages on immovable property). In this way, Aareal Bank has implemented the EBA recommendations, published in January 2018, on disclosure of exposures in default within the scope of this table. Accordingly,

line 28 is only for information, since it is not included in the calculation of totals across all CRSA exposure classes.

The following tables EU CRI-B and EU CRI-C are based on the same allocation criteria as the tables EU CRB-D and EU CRB-C above, both in terms of borrower groups and regional presentation.

EU CR1-B: Credit quality of exposures by industry or counterparty types

		а	b	с	d	е	f	g
		Gross carry Defaulted exposures	ing values of Non-defaulted exposures	Specific credit risk adjustment	General credit risk adjustment	Accumu- lated write-offs	Credit risk adjustment charges of the period	Net values (a+b-c-d)
€m	n							
1	Institutions	-	5,203	0	-	-	0	5,203
2	Public-sector entities	-	8,185	1	-	-	0	8,184
3	Corporates	1,730	26,008	538	-	57	12	27,200
4	Other	12	1,450	1	-	-	0	1,461
5	Total	1,742	40,846	540	-	57	12	42,047

EU CR1-C: Credit quality of exposures by geography

		а	b	С	d	е	f	g
		Gross carry	ing values of					Net values
€m		Defaulted exposures	Non-defaulted exposures	Specific credit risk adjustment	General credit risk adjustment	Accumu- lated write-offs	Credit risk adjustment charges of the period	(a+b-c-d)
1	Germany	52	13,951	10	-	3	0	13,993
2	Western Europe	190	10,303	68	-	6	4	10,425
	Austria	-	1,407	0	_	-	_	1,407
	Belgium	_	393	0	-	-2	0	393
	Switzerland	_	314	0	-	-	_	314
	France	94	2,333	14	-	-	0	2,413
	United Kingdom	_	4,686	3	-	8	_	4,683
	Netherlands	96	1,082	51	_	-	4	1,127
	Other countries	-	88	0	_	-	-	88
3	Northern Europe	307	1,168	44	-	4	-1	1,431
	Denmark	293	275	39	-	0	-1	529
	Finland	14	422	5	-	-	0	431
	Sweden	-	466	0	-	4	0	466
	Other countries	-	5	0	-	-	-	5
4	Southern Europe	1,064	4,741	344	-	45	8	5,461
	Spain	56	1,139	31	-	13	0	1,164
	Italy	1,008	3,483	313	-	32	8	4,178
	Other countries	-	119	0	-	-	-	119
5	Eastern Europe	108	1,936	56	-	-	1	1,988
	Poland	-	979	1	-	-	0	978
	Russia	17	451	7	-	-	1	461
	Other countries	91	506	48	-	-	0	549

		а	b	с	d	е	f	g
		Gross carry Defaulted exposures	ing values of Non-defaulted exposures	Specific credit risk adjustment	General credit risk adjustment	Accumu- lated write-offs	Credit risk adjustment charges of the period	Net values (a+b-c-d)
€m	1							
6	North America	20	6,984	16	-	-	0	6,988
	Canada	-	730	0	-	-	-	729
	USA	20	6,254	16	-	-	0	6,258
	Other countries	-	_	-	-	-	_	-
7	Asia	-	414	1	-	-	-	413
8	Other countries	-	1,349	-	-	-	-	1,349
9	Total	1,742	40,846	540	_	57	12	42,047

Past-due exposures shown in table EU CR1-D (whether or not they are impaired) are broken down across specified past-due maturity bands. As outlined in the chapter on allowance for credit losses, the figures shown in column a) only relate to loans which are past due by more than nine days.

EU CR1-D: Ageing of past-due exposures

		а	b	c Gross carr	d ying values	е	f
		≤ 30 days	> 30 days ≤ 60 days	> 60 days ≤ 90 days	> 90 days ≤ 180 dayse	> 180 days ≤ 1 year	> 1 year
€m	n						
1	Loans	51	0	8	0	29	604
2	Debt securities	-	-	-	-	-	-
3	Total	51	-	8	-	29	604

In the following table EU CRI-E (page 38), details on defaulted and past-due exposures shown in the preceding tables are supplemented by information on non-performing and forborne exposures, broken down by asset type.

Besides information on specific credit risk adjustments, columns h) to k) of table EU CR I-E also require disclosure of negative fair value adjustments due to credit risk. The limitation to negative changes in counterparty credit risk is due to such negative changes being de facto equivalent to an impairment implied by fair value, whereby no impairment is recognised for assets carried at fair value through profit and loss. In its disclosure, the Bank is guided by the specifications for Financial Reporting (FINREP); the related cumulative requirements only apply to the Bank's portfolio from 2018 onwards.

EU CR1-E: Non-performing and forborne exposures

	а	b	С	d	е	f	g	h	i	j	k	l I	m	
		G	ross carrying va non-perfo			d		Accumulated impairment and provisions and negative fair value adjustments due to credit risk				Collateral and financial guarantees received		
		of which performing but past due	orming performing			On performing exposures		On non-performing exposures		On non- performing exposures	of which forborne			
		> 30 days and ≤ 90 days			of which defaulted	of which impaired	of which forborne		of which forborne		of which forborne			
€mn														
010 Debt securities	8,535	-	-	-	-	-	-	1	-	-	-	-	-	
020 Loans and advances	31,271	9	86	1,634	1,634	1,400	745	80	36	456	215	1,334	594	
030 Off-balance- sheet exposures	1,821	-	2	107	107	88	30	3	0	_	_	1	-	

Pursuant to Article 442 lit. (i) of the CRR, the Bank must disclose relevant specific credit risk adjust-

ments during the 2017 reporting year. Details are shown in table EU CR2-A.

EU CR2-A: Changes in the stock of general and specific credit risk adjustments

		a Accumulated specific credit risk adjustment	b Accumulated general credit risk adjustment
€m	n		
1	Opening balance (1 January)	552	-
2	Increases due to amounts set aside for estimated loan losses during the period (additions)	109	_
3	Decreases due to amounts reversed for estimated loan losses during the period (reversals)	60	_
4	Decreases due to amounts taken against accumulated credit risk adjustments (write-downs)	34	_
5	Transfers between credit risk adjustments	-	-
6	Impact of exchange rate differences	5	-
7	Business combinations, including acquisitions and disposals of subsidiaries	-	-
8	Other adjustments	22	-
9	Closing balance (31 December)	540	-
10	Recoveries on credit risk adjustments recorded directly to the statement of profit or loss (payments on loans and advances previously written off)	29	-
11	Specific credit risk adjustments directly recorded to the statement of profit or loss (direct write-offs)	57	_

General information on credit risk mitigations

The Bank's Credit Manual contains further details regarding collateral to be used within the Bank. The regulatory inclusion of the collateral reflects our conservative hedging strategy. The collateral employed fulfils the extensive impairment checks and enforcement reviews that are part of the credit process.

For the purpose of the internal estimation of the loss ratio in the case of a borrower default, only collateral that can be allocated to the following categories is taken into account:

- property-related collateral,
- warranties, and
- financial collateral.

The legal minimum requirements regarding collateral and the security interest are reviewed by legal counsels of the Credit Management units. The internal estimation of the loss ratio only uses collateral that is included in Bank-internal approved lists. These security interests are always enforceable. A Bank-internal process ensures that the legal enforceability of all CRR-relevant collateral is subjected to permanent legal monitoring in the jurisdictions relevant for us. If this results in changes, corresponding measures are initiated.

Any collateral must be reviewed in the case of new business, loan prolongations, material changes to the collateral structure as well as at certain time intervals and upon certain events. The review covers the legal minimum requirements and the value of the collateral.

In addition to the inclusion of real property liens, we developed a methodology in cooperation with external law firms. This methodology is used to assess other property-related security interests for international financings, including pledges of unlisted shares in a property company or specialpurpose entity. On this basis, the rights are taken into consideration for the purpose of the internal loss ratio estimation. In contrast to the AIRBA, only certain types of impersonal collateral, indemnities and guarantees as well as financial collateral may be used under the CRSA. Commercial and residential property collateral is eligible for inclusion in accordance with the CRSA, albeit not for mitigating credit risk. Loans secured by a real property lien are included instead in a separate exposure class with a preferable risk weight. All collateral values in foreign currency are translated into euro on a daily basis, using the official foreign currency rates.

Regulatory haircuts based on mismatches related to term/lifetime or currencies are applied during netting of collateral.

Property-related collateral

As an international property lender, Aareal Bank focuses on property in the context of collateralisation. Real property liens – or any equivalent security interests in terms of quality depending on the location of the property – are the main types of security interests used for the internal loss ratio estimations for property loans.

Market or fair values are set in accordance with the responsibilities for decision-making on lending, and form an integral part of the lending decision.

Valuation reports are used for property-related collateral. The provisions of Article 208 (3) of the CRR are complied with during the valuation. The property's market or fair value is subjected to a defined monitoring and review process:

Step 1: Monitoring

The property values are monitored using statistical methods. The annual monitoring for properties located in Germany is based on a Bank-internal procedure as well as on the market fluctuations concept pursued by the banking associations vdp and VÖB. Properties located abroad are monitored exclusively on the basis of a Bank-internal procedure. In addition to regular monitoring, a review is initiated as soon as there are indications of substantial value fluctuations for the relevant property types.

Step 2: Review

The properties identified in Step I are analysed more closely. This review is made by an independent valuer, or a loan manager with applicable expertise. In addition, all properties have to be reviewed every twelve months if the exposures reach a certain threshold. Smaller properties are reviewed every three years if they exceed a certain minimum exposure. Event-driven reviews are carried out immediately.

Step 3: Revaluation

In Step 3, the properties identified in Step 2 are generally revalued when the assumptions underlying the most recent valuation would lead to a reduction in value, considering the current market situation.

Warranties

Warranties include indemnities and guarantees. The guarantors include rated customers from the segments "Sovereign states", "Regional governments" and "Local authorities" as well as "Institutions" and "Corporates". Credit risk mitigation focuses on the creditworthiness of the guarantor. In the case of large-sized property lending, if a warranty is provided, the guarantor has to be rated using the applicable rating procedure when the lending decision is based (among other things) upon the creditworthiness of the guarantor. The rating process for guarantors is subject to the same requirements applicable to the borrower. Assigned life insurance policies are only included under the AIRBA and are treated - by analogy with assigned balances held at third-party institutions - like warranties.

Financial collateral

Pledged balances held at the Bank are included as financial collateral. Financial collateral in the form of pledged securities play a minor role. Their current market values are included for credit risk mitigation purposes, adjusted for haircuts.

We use the comprehensive method for financial collateral under the CRSA.

Collateralising loans through balances saved under home loan and savings contracts and fund units is insignificant in our business model.

Collateral eligible for inclusion

Collateral in the amount of \in 26,804 million was applied within the scope of credit risk mitigation. This figure comprises no financial collateral included for derivatives transactions.

The following table shows collateral for each exposure class which are considered under AIRBA and CRSA. The real property liens (94.8%) relevant for Aareal Bank as an international property specialist are disclosed in column c) along with the financial collateral, whereas warranties are disclosed under column d). Aareal Bank currently does not use credit derivatives as collateralisation.

In addition to credit risk mitigating collateral and secured exposures (column b), column a) discloses the amount of all generally unsecured exposures.

Risk concentrations

The qualitative and quantitative processes to assess and control risk concentrations are described in the Annual Report.¹⁾

Netting framework agreement

Please refer to the Annual Report²⁾ for details on netting framework agreements.

¹⁾ Aareal Bank Group 2017 Annual Report: chapter "Credit risks" (here: "Risk measurement and monitoring") in the Risk Report of the Group Management Report, page 57 et seqq.

²⁾ Aareal Bank Group 2017 Annual Report: chapter "Credit risk mitigation" (here: "Credit risk mitigation for trading activities") in the Risk Report of the Group Management Report, page 58 et seqq.

EU CR3: Overview of credit risk mitigation techniques

	а	b	с	d	е
	Exposures unsecured – Carrying amount	Exposures secured – Carrying amount	Exposures secured by collateral	Exposures secured by financial guarantees	Exposure secured by cred derivative
n					
Total IRB approach	2,302	25,561	24,689	224	
Institutions	711	727	548	179	
Corporates	645	24,834	24,141	45	
of which: SMEs	193	16,592	16,100	42	
Equity exposures	316	-	_	-	
Other non-credit related assets	630	-	-	-	
Total standardised approach	12,154	2,030	1,556	335	
Central governments or central banks	5,361	-	-	-	
Regional governments and similar entities	3,940	-	-	-	
Other public-sector entities	1,710	231	-	231	
Multilateral development banks	264	-	-	-	
International organisations	443	-	_	-	
Institutions	-	_	_	_	
Covered bonds	-	-	_	-	
Corporates	277	213	0	102	
of which: SMEs	172	160	_	82	
Retail	143	27	0	0	
of which: SMEs	-	-	_	-	
Secured by mortgages on immovable property	_	1,556	1,556	_	
of which: SMEs	_	588	588		
Collective investment undertakings (CIU)	_				
Equity exposures	_	_			
Other exposures	_	_	_	_	
Exposures in default	15	3	-	2	
Total loans	4,390	26,773	23,932	140	
Total debt securities	8,125	410		410	
Total	14,472	28,111	26,245	559	
of which: defaulted	64	1,654	1,329	6	

Qualitative information on the use of the Credit Risk Standard Approach

Calculation approaches

Article 107 (1) of the CRR allows different approaches to be taken when calculating the riskweighted exposure amounts in relation to counterparty credit risk.

The Credit Risk Standard Approach (CRSA) continues to be used within the framework of the partial-use method (Article 150 of the CRR). This partial-use method covers the following CRSA exposure classes on a continuous basis:

- central governments or central banks,
- regional governments and similar entities,
- other public-sector entities,
- multilateral development banks,
- international organisations,
- corporates (only non-core business, legacy business),
- retail lending business (discontinued business, legacy business),
- exposures secured by mortgages on immovable property (only non-core business, legacy business), and
- exposures in default (only non-core business, legacy business).

Under the CRSA, parameters defined by the regulatory framework are used to determine riskweighted exposure amounts. Only specific collateral defined by the regulatory framework may be used to mitigate credit risk.

External rating for CRSA exposures

A key element of the economic and regulatory assessment is the borrower's credit rating. This rating is determined by rating agencies recognised by the regulatory authorities. These agencies' assessments and valuations facilitate a uniform classification of borrowers across all banks. The ratings of governments, banks and exchange-listed companies, as well as investment fund units, are generally assessed externally. We have retained three agencies: Fitch Ratings, Moody's Investors Service, and Standard & Poor's, to classify borrowers and guarantors in accordance with Article 138 of the CRR. The ratings determined by these three agencies apply for all the aforementioned rating-related exposure classes in relation to the Credit Risk Standard Approach. Assessments by export credit insurance agencies are not used.

Exposures rated by at least one rating agency are deemed as "rated" CRSA exposures pursuant to article 138 of the CRR. The "unrated" items are rated in accordance with Article 139 (2) of the CRR. The "unrated" items are rated in accordance with Article 139 (2) of the CRR. In line with our business model, most of our exposures are in the "Corporates" exposure class under the AIRBA. Legacy business from Aareal Bank AG's non-core business remains included in the "Corporates" and "Exposures secured by mortgages on immovable property" exposure classes, which are reported as unrated CRSA exposures with the prescribed standard risk weighting.

At present, we have neither transactions within the portfolio for which an issue rating has been migrated to receivables nor any for which a comparable rating is determined pursuant to Article 139 (2) of the CRR.

Quantitative information on the use of the Credit Risk Standard Approach

Identical types of collateral respond differently, depending on what transactions they can be offset against.

This is due to the composition of the CRSA exposure amount as well as the exposure categories for undrawn credit facilities and other off-balance sheet transactions (Article 111 of the CRR in conjunction with Annex I of the CRR). The credit conversion factors assigned to each exposure category ensure that lower regulatory capital requirements are calculated for loan commitments and other off-balance sheet transactions than for on-balance sheet receivables. Cash deposits as financial collateral and warranties within the meaning of the CRR can be distinguished in terms of how they mitigate credit risk:

- Financial collateral reduces the assessment basis to which the credit conversion factor is applied. The risk weight impacts the exposure amount.
- Warranties do not impact on the assessment basis, but on the risk weighting. A loan collat-

eralised through a warranty is taken into account, with the warranty amount to be included and the risk weight of the guarantor in the guarantor's exposure class.

The following table shows CRSA exposure amounts both before and after mitigating credit risk, shown separately as on- and off-balance sheet exposures. In addition, risk-weighted assets (RWAs) are disclosed for each exposure class.

EU CR4: Credit Risk Standard Approach - credit risk exposure and credit risk mitigation effects

E	xposure classes	а	b	С	d	е	f
			s before CCF I CRM		es post CCF I CRM	RWAs a den	
		On-balance- sheet amount (EAD)	Off-balance- sheet amount (EAD)	On-balance- sheet amount (EAD)	Off-balance- sheet amount (EAD)	RWAs	RWA density
		€mn	€mn	€mn	€mn	€mn	%
1	Central governments or central banks	5,362	-	5,773	-	14	0.24
2	Regional governments and similar entities	3,940	0	4,023	-	270	6.71
3	Other public-sector entities	1,939	2	1,709	0	7	0.44
4	Multilateral development banks	264	-	264	-	-	-
5	International organisations	443	-	443	_	-	-
6	Institutions	-	-	19	-	10	49.83
7	Corporates	406	85	303	11	314	99.76
8	Retail	164	6	164	0	123	75.00
9	Secured by mortgages on immovable property	1,550	5	1,550	5	655	42.11
10	Exposures in default	18	-	16	-	21	132.26
11	Exposures associated with particularly high risk	-	-	-	_	-	-
12	Covered bonds	-	-	-	_	-	-
13	Claims on institutions and corporates with a short-term credit assessment	-	_	-	_	-	-
14	Collective investment undertakings (CIU)	-	_	-	_	-	-
15	Equity exposures	-	_	-	_	-	-
16	Other exposures	-	-	-	-	-	-
17	Total	14,086	98	14,264	16	1,414	9.90

The table EU CR5 shows the exposure amount after mitigating credit risk of all exposures to which CRSA is applied, for each exposure class and broken down according to risk weight pursuant to Article 114 et seqq. of the CRR. The exposures disclosed in the column "Of which: unrated" are exposures for which no external rating is used to derive the risk weight.

EU CR5: Standardised approach (after credit risk mitigation)

Exposure classes										Risk	weigh	nt	Risk weight											
	0%	2%	4%	10%	20%	35%	50%	70%	75%	100%	150%	250%	370%	1250%	Others	Deducted	Total	of which unrated						
€mn																								
1 Central governments or central banks	5,704	_	_	_	69	_	_	_	_	-	_	_	_	_	_	_	5,773	5,539						
2 Regional governments and similar entities	3,853	-	-	_	67	_	_	_	_	-	-	103	-	-	_	-	4,023	3,992						
3 Other public-sector entities	1,671	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	1,709	1,671						
4 Multilateral development banks	264	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	264	264						
5 International organisations	443	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	443	443						
6 Institutions	-	-	-	-	0	-	19	-	-	-	-	-	-	-	-	-	19	19						
7 Corporates	-	-	-	-	-	-	-	-	-	314	-	-	-	-	0	-	314	314						
8 Retail	-	-	-	-	-	-	-	-	164	-	-	-	-	-	-	-	164	164						
 Secured by mortgages on immovable property 	-	_	_	_	_	801	754	-	_	-	_	_	_	_	_	_	1,555	1,555						
10 Exposures in default	-	-	-	-	-	-	-	-	-	6	10	-	-	-	-	-	16	16						
11 Exposures associated with particularly high risk	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	-	-	_						
12 Covered bonds	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
13 Institutions and corporates with a short-term credit assessment	-	-	-	_	_	_	_	_	_	_	_	_	_	_	_	-	-	-						
14 Collective investment undertakings (CIU)	-	_	-	_	_	_	_	_	_	_	_	_	_	_	_	-	_	-						
15 Equity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
16 Other items	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
17 Total	11,935	-	-	-	174	801	773	-	164	320	10	103	-	-	0	-	14,280	13,977						

For compliance with disclosure requirements pursuant to Article 444 lit. e) of the CRR, the following table (page 45) additionally shows CRSA exposure amounts before considering credit risk mitigation. The Bank does not provide additional disclosure of unrated risk exposures since the Article referred to above does not require such disclosure.

EU CR5: Standardised approach (before credit risk mitigation)

	xposure classes								Ris	k weig	ht						
		0%	2%	4%	10%	20%	35%	50%	70%			150%	250%	370%	1250%	Others	Total
€n	nn																
1	Central governments or central banks	5,362	-	-	-	-	_	-	Ι	-	-	-	-	-	-	-	5,362
2	Regional governments and similar entities	3,770	I	I	I	67	-	-	I	-	-	-	-	-	-	-	3,837
3	Other public-sector entities	1,671	-	-	-	235	-	35	-	-	-	-	-	-	-	-	1,941
4	Multilateral development banks	264	-	-	-	-	-	-	-	-	-	-	-	-	-	-	264
5	International organisations	443	-	-	-	-	-	-	-	-	-	-	-	-	-	-	443
6	Institutions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Corporates	-	-	-	-	-	-	-	-	-	489	-	-	-	-	2	491
8	Retail	-	-	-	-	-	-	-	-	170	-	-	-	-	-	-	170
9	Secured by mortgages on immovable property	-	-	-	-	-	801	754	-	_	-	-	-	-	_	-	1,555
10	Exposures in default	-	-	-	-	-	-	-	-	-	6	12	-	-	-	_	18
11	Exposures associated with particularly high risk	_	-	-	-	_	_	_	-	_	-	_	-	-	_	-	-
12	Covered bonds	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Institutions and corporates with a short-term credit assessment	_	_	_	_	_	_	_	_	_	_	_		_	_	-	-
14	Collective investment undertakings (CIU)	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-
15	Equity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Other items	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Total 1	11,510	-	-	-	302	801	789	-	170	495	12	-	-	-	2	14,081

Qualitative information on the use of the IRB Approach

We follow the Advanced Internal Ratings-Based Approach (AIRBA) to determine the risk-weighted exposure amounts in relation to counterparty credit risk for property finance - our main business segment – within the "Corporates" exposure class. This was approved by the German Federal Financial Supervisory Authority (Bundesanstalt für Finanzdienstleistungsaufsicht – "BaFin") in February 2011, with retrospective effect as at 31 December 2010.

Aareal Bank AG employs the internal rating procedure for banks to assess the credit quality of institutions. With effect from 29 November 2013, BaFin authorised the Bank to apply the Advanced IRB Approach to determine the regulatory capital requirements for customers rated using the internal rating procedures for banks.

Internal rating systems

Aareal Bank decided to adopt the Advanced IRB Approach (AIRBA) to determine the regulatory capital requirements for exposures. This requires the Bank to make internal estimates of the probability of default (PD), and to determine the expected Loss Given Default (LGD) as well as credit conversion factors (CCFs); the latter risk parameter is not relevant for loans and advances to institutions. One risk model per risk parameter has been approved for Aareal Bank's exposure classes "Corporates" and "Institutions". Additional approved models do not exist. The portfolio of exposures to banks (counterparties in the exposure class "Institutions") is a so-called low default portfolio where internal defaults are non-existent or very rare indeed. As a consequence, the Bank had no possibility to develop an internal rating system on the basis of an internal default history. Thus, Aareal Bank decided to build an internal rating system using a so-called shadow rating method, in order to achieve the best possible distinction between counterparties and issuers with strong and weak credit quality.

Likewise, the Bank had no option when developing its LGD procedure to build a process that delivers empirical estimates of LGD values on the basis of a default history. The model was therefore based on expert estimates, which were supplemented or verified using market data and/or external data sources to the greatest extent possible.

In this context, LGD estimates for loans to institutions are essentially based on two components: a quantitative analysis of the Bank's assets and a qualitative assessment of counterparties' strategies, processes and business policy. This analysis is carried out on a case-by-case basis by rating analysts within the Treasury Credit Management unit.

The internal rating procedure used by the Bank for borrowers in the large-sized commercial property financing business determines a borrower's probability of default (PD), the borrower's LGD, and the credit conversion factor (CCF).

Within the framework of this rating procedure, a rating is established for large-sized commercial lending business (our core business) with a total exposure of at least \in 2.5 million, and for the commercial housing industry with a total exposure of at least \in 750,000.

The contractual positions relevant for reporting duties are maintained in the relevant Sales unit systems, while the assignment of IRBA items and borrowers to the IRBA exposure classes "Corporates" and "Institutions" is made fully automatically on the basis of the characteristics of the transaction and the customer. The internal rating procedure used by the Bank to determine a customer's probability of default consists of two main components: a property rating and a corporate rating. The relative impact of the two components on the rating result is determined by the structure of the exposure concerned. The client's probability of default is determined based on specific financial indicators, together with qualitative aspects and expert knowledge. The result of the rating process is reflected in the classification of the borrower into one of the rating classes. The Bank currently uses 15 rating classes - within the rating procedure for large-sized commercial property financing - for borrowers that are not deemed to have defaulted pursuant to the CRR criteria. Borrowers in default pursuant to the CRR are allocated to a special rating class. Within the framework of the Bank's external reporting, the borrower rating is reconciled to a master scale.

Credit Management is responsible for the determination of the borrower rating; this responsibility is regulated in the Bank's credit manuals. The relevant authorised person makes a decision on the rating which ensures an independent rating allocation from a process view.

The second step involves the calculation of the expected loss given a borrower's default for the internally rated large-sized commercial property financings under the AIRBA approach.

The LGD is determined based on a bottom-up approach, where the components relevant for the LGD level and their driving factors – in the form of recovery rates, waivers of principal and interest as well as direct and indirect costs - are estimated. The LGD determination is based on the definition of economic loss (Article 5 (2) of the CRR). As the future development of a borrower cannot be anticipated in case of a borrower's default, the alternatives - recovery, restructuring and re-ageing are included in the LGD calculation using weightings based on the respective probability. The LGD is driven primarily by the expected proceeds from the realisation of collateral and from unsecured portions of loans and advances. The proceeds from property-related collateral are determined based

on the recovery rate in the form of a haircut applied to a previously forecast market value. For financings of domestic properties, recovery rates are taken from a pool of data used across the Bank, whilst recovery rates for international properties are derived using an internal approach. An internal projection model based on macroeconomic inputs has been developed by the Bank for market value outlooks.

In addition to the nature and extent of the collateralisation of a financing, the estimated exposure at the borrower's default (Exposure at Default, EaD) is the second major parameter for the LGD calculation.

Historical observations are used to determine the credit conversion factor for borrowers in the German housing industry. In development financing, the credit conversion factor is calculated based on the property's stage of completion.

As at 31 December 2017, Aareal Bank Group's IRBA Coverage Ratio for IRBA exposures amounts to 97.0%, and to 98.7% for RWAs. Aareal Bank AG has defined an implementation plan for the gradual transition of the CRSA portfolio of former WestImmo into the IRBA.

Reporting

In addition, the risk parameters are a major element of our internal and external reporting. The Bank's reporting comprises various portfolio analyses based on the rating procedures used in the Bank. Accordingly, the MaRisk report (as the central risk report for credit risks) includes comprehensive information on the development of the credit portfolio, e.g. by rating classes and their changes. Compliance with rating updates and property monitoring is reported on a monthly basis.

Additional uses of internal estimates

The internally-estimated risk parameters are central factors for the Bank's lending process, the Treasury processing chain, and its risk management. The market-related credit risk strategies are based – with regard to their specific requirements – on the rating and the parameters underlying the LGD, among others. The basic prerequisite and foundation for the loan approval is a detailed risk evaluation of each lending exposure of a borrower. The risk evaluation includes the borrower's creditworthiness, as well as the risks and collateral underlying the lending exposure. The resulting risk classification is subject to approval powers with regard to approval and prolongation of lending exposures. The extent of monitoring activities depends on the risk classification. The basis for granting a commitment is the preparation of a borrower rating.

The credit documentation includes the collateral influencing the LGD as well as assessments of this collateral.

The relevant authorised person approves the credit application and the determination of the borrower rating.

The rating result is one of the many indicators – within the framework of early risk identification – to classify an exposure as on-watch, risk-prevention, restructuring or recovery exposure.

The Bank uses credit risk models above all to monitor concentration and diversification effects on portfolio level. Both expected and unexpected loss can be derived. The basis for determining the relevant values are the risk parameters PD, LGD and EaD.

During the estimating phase of the acquisition process, risk costs and capital requirements are determined using the risk parameters PD and LGD, and are then included as parameters for riskadjusted pricing. The individual financings are subjected to an economic assessment for the current profit centre calculation (accounting for individual transactions/final costing). This economic assessment takes into account the parameters PD and LGD via capital and standard risk costs.

Control mechanisms

The Credit Management unit is responsible for the correct and regular determination of the rating results as well as for data quality within the IT and rating systems. The rating is prepared using the principle of dual control. The authorities for determining the rating are based on the authority regulations for lending and monitoring decisions.

The uniformity of the rating for a borrower or a guarantor is ensured through a number of measures. All rating users are trained to become familiar with the procedure, and there is also documentation dealing with interpretation issues in the context of the rating preparation.

In the main business segment property financing, manual adjustments may be made within the scope of overruling, and are documented subsequently in the rating system.

Overrulings are also permitted for institutions, in individual cases.

The internal rating procedure to determine a borrower-specific probability of default for large-sized property financing is validated based on the underlying data pool, once per year. The validation covers all measures required pursuant to the CRR. The further development of the rating procedure is made under the umbrella of CredaRate, on behalf of – and with the participation of – the banks involved.

The procedures used by the Bank for determining LGD and EaD are also validated on an annual basis. As these procedures represent Bank-internal developments, validation is made by the Bank itself. Exceptions to this are the parameters used within the LGD calculation process (recovery rates and settlement periods for properties in Germany). A two-stage process takes effect here. The data gathered for Germany within the scope of pooling under the umbrella of the Association of German Pfandbrief Banks (Verband deutscher Pfandbriefbanken – "vdp") is the basis. The central validation

of these parameters for the entire pool is carried out by vdp. Aareal Bank draws on the already centrally validated pool data for its own validation of these parameters.

The loss given default percentage and the EaD for property financings are derived automatically in the system on the basis of the transaction and collateral data stored in the system where data is maintained. The provision of data is subject to strict quality standards for data entries of the system where data is maintained; these quality standards are set out in the Bank's quality manuals. The necessary reviews with regard to information on collateral are the responsibility of the Credit Management division.

Furthermore, internal ratings procedures for banks to determine PD and LGD are validated internally, once a year.

Risk Controlling is responsible for developing rating models, whilst Regulatory Affairs (which is independent from Risk Controlling) is responsible for validating all rating models. The validation results are discussed within the Risk Executive Committee (RiskExCo) and adopted by the Management Board.

The Internal Audit division, as a process-independent unit, reviews the adequacy of the internal rating systems on a regular basis, including compliance with the minimum requirements for using rating systems.

Quantitative information on the use of the IRB Approach

The property lending portfolio and portfolio of exposures to banks (treated under the AIRBA) shall be disclosed in the EU CR6 table on the pages 50/51, which considers clearly-defined PD classes. Expected loss (EL) is also reported per PD class, thus also ensuring a statement about the quality of the collateral.

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Exposures subject to counterparty credit risk pursuant to Article 92 (3) lit. f of the CRR and treated under the IRBA are not covered in the following statements.

In addition to the distribution of IRBA exposure amounts onto individual PD classes, the average PD and LGD values for each relevant geographical location of credit exposures are disclosed. The disclosure is based on our three-continent strategy, which covers Europe, North America and Asia, and features a breakdown of the average values by major geographical markets, as explained in our Annual Report. The average values are allocated based on the location of the property used as collateral. The information provided includes property finance in default according to the CRR.

Backtesting of default probabilities

The following section compares the PDs used for the IRBA portfolio according to the regulatory scope of consolidation with the effective default rates of borrowers. The average annual default rate for the past five years is used for comparison.

In accordance with EBA guidelines, counterparty credit risk exposures are outside the two IRBA exposure classes.

Aareal Bank uses the internal master scale – comprised of 21 PD classes (20 rating classes for not defaulted borrowers, one default class) – as basis for the PD band. Aareal Bank allocates exactly one probability of default parameter to each PD class. Thus, the weighted PD average generally corresponds to the arithmetic average of PD as per borrower. The default probabilities allocated to the PD bands are the same for all IRBA exposure classes, thus facilitating internal comparison.

Aareal Bank employs risk classification procedures tailored to the requirements of the respective IRBA asset class for the initial, regular, or eventdriven assessment of counterparty credit risk. When determining internal credit ratings and default rates, Aareal Bank does not use assessments by external rating agencies. Hence, no external ratings are shown in column c).

In the current year, a total of six borrowers in the Corporates asset class defaulted pursuant to Article 178 of the CRR. All of the borrowers who defaulted had already been financed as at the end of the previous period. There are restrictions to the interpretation of comparing average PD to average annual default rates in table EU CR9; on the one hand, this is due to the master scale deployed. As mentioned before, Aareal Bank employs risk classification procedures tailored to the requirements of the respective IRBA asset class for the initial, regular, or event-driven assessment of counterparty credit risk. For instance, the rating scales have been customised to match the respective methods. The ratings, determined using internal risk classification procedures, are aggregated via the master scale to form a master rating for reporting purposes. On the other hand, the low number of default cases, in only a few rating classes, also burdens interpretation of this comparison.

The comparison for the Institutions exposure class is generally not meaningful, given absence of any borrower default during the reporting year; moreover, no borrower default occurred during the five-year history used as a basis for calculating the average annual default rate.

In principle, the risk classification procedures employed by the Bank are dynamic methods which are permanently adapted to changing risk structures and market conditions.

EU CR6: IRB Approach – Credit risk exposures by exposure class and PD range

IRBA exposure class	PD scale	а	b	с	d	е	
		Original on- balance-sheet gross exposures	Off-balance- sheet exposures pre-CCF	Average CCF	EaD post CRM and post CCF	Average PD	
	%	€mn	€mn	%	€mn	%	
Corporates – SMEs	0.00 to < 0.15	169	45	50.00	191	0.08	
	0.15 to < 0.25	1,580	25	87.32	1,603	0.21	
	0.25 to < 0.50	2,835	377	93.97	3,189	0.43	
	0.50 to < 0.75	2,215	39	65.19	2,240	0.70	
	0.75 to < 2.50	5,696	151	92.51	5,835	1.29	
	2.50 to < 10.00	2,578	99	86.76	2,664	4.41	
	10.00 to < 100.00	-	-	-	-	-	
	100.00 (Default)	1,296	97	-	1,296	100.00	
	Subtotal	16,369	833	78.01	17,018	8.94	
Corporates – Others	0.00 to < 0.15	5	3	13.38	6	0.07	
	0.15 to < 0.25	940	145	33.65	988	0.19	
	0.25 to < 0.50	1,258	72	23.27	1,275	0.44	
	0.50 to < 0.75	1,395	145	75.32	1,505	0.70	
	0.75 to < 2.50	3,459	454	90.68	3,870	1.25	
	2.50 to < 10.00	547	61	92.53	603	2.77	
	10.00 to < 100.00	-	-	-	-	-	
	100.00 (Default)	318	10	-	318	100.00	
	Subtotal	7,922	890	72.26	8,565	4.68	
Institutions	0.00 to < 0.15	181	-	-	112	0.06	
	0.15 to < 0.25	1,154	0	-	1,074	0.19	
	0.25 to < 0.50	104	-	-	74	0.45	
	0.50 to < 0.75	-	-	-	-	-	
	0.75 to < 2.50	-	-	-	-	-	
	2.50 to < 10.00	-	-	-	-	-	
	10.00 to < 100.00	0	-	-	0	30.00	
	100.00 (Default)	-	-	-	-	-	
	Subtotal	1,439	0	-	1,260	0.20	
	Total	25,730	1,723	75.04	26,843	7.17	

Corporates – SMEs	EaD post CRM and post CCF	Average LGD	Average PD
	€mn	%	%
Germany	2,647	7.88	1.99
Western Europe	4,715	6.42	4.88
Northern Europe	1,229	14.23	25.13
Southern Europe	3,185	21.15	22.95
Eastern Europe	1,221	20.09	10.15
North America	3,836	4.90	1.90
Asia	186	33.05	1.33
Total	17,018	10.89	8.94

Corporates – Others	EaD post CRM and post CCF	Average LGD	Average PD
	€mn	%	%
Germany	1,318	11.32	1.09
Western Europe	3,089	8.61	0.85
Northern Europe	70	2.41	0.19
Southern Europe	573	22.87	55.40
Eastern Europe	442	15.39	1.89
North America	2,945	4.82	1.15
Asia	128	26.14	1.13
Total	8,565	9.24	4.68

f	g	h	i	j	k	1
Number of obligors	Average LGD	Average maturity	Risk-weighted items (RWAs)	RWA density	Expected Loss (EL)	Value adjustments and provisions
	%		€mn	%	€mn	€mn
9	11.80	900	12	6.58	0	
82	2.93	937	40	2.49	0	
119	2.42	921	96	3.02	0	
75	8.00	1,070	293	13.07	1	
140	9.09	1,043	1,121	19.21	7	
58	21.67	847	1,703	63.93	31	
-	-	-	-	-	-	
42	32.43	884	977	75.37	344	
525	10.89	969	4,242	24.93	383	-417
2	9.09	66	0	6.41	0	
43	11.58	1,532	155	15.63	0	
24	1.57	1,268	33	2.62	0	
37	9.46	1,364	358	23.82	1	
62	8.15	1,253	843	21.77	4	
12	16.49	1,206	308	50.98	3	
-	-	-	-	-	-	
11	31.13	1,210	311	97.89	74	
191	9.24	1,301	2,008	23.44	82	-117
13	6.76	685	4	3.57	0	
27	7.75	328	83	7.75	0	
12	14.75	163	14	19.26	0	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
11	65.00	360	1	361.54	0	
-	-	-	-	-	-	
63	8.09	350	102	8.12	0	0
779	10.23	1,046	6,352	23.66	466	-535

Institutions	EaD post CRM and post CCF	Average LGD	Average PD
	€mn	%	%
Germany	162	18.94	0.19
Western Europe	786	5.15	0.20
Northern Europe	114	6.24	0.15
Southern Europe	20	45.35	0.34
Eastern Europe	1	36.63	0.25
North America	176	7.84	0.21
Asia	0	55.80	0.30
Total	1,260	8.09	0.20

EU CR9: IRB Approach - back-testing of the probability of default (PD) per exposure class

а	b	с	d	е	i	i	g	h	i
					Number of	obligors			
Exposure class Corporates	PD range	External rating equivalent	Weighted average PD	Arithmetic average PD by obligors	End of previous year	End of the year	Defaulted obligors in the year	of which: new obligors	Average historical annual default rate
	%		%	%					%
	0 to < 0.00120	-	0.0012	0.0012	-	-	-	-	0.0000
	0.00120 to < 0.00750	-	0.0030	0.0030	-	-	-	-	0.0000
	0.00750 to < 0.01000	-	0.0080	0.0080	-	-	-	-	0.0000
	0.01000 to < 0.02640	-	0.0150	0.0150	-	-	-	-	0.0000
	0.02640 to < 0.03410	-	0.0300	0.0300	-	-	-	-	0.0000
	0.03410 to < 0.05950	-	0.0450	0.0450	2	2	-	-	0.0000
	0.05950 to < 0.07680	_	0.0676	0.0676	1	3	-	-	0.0000
	0.07680 to < 0.13410	_	0.1015	0.1015	18	6	-	-	0.0000
	0.13410 to < 0.17320	-	0.1524	0.1524	30	40	-	-	0.0000
	0.17320 to < 0.30230	_	0.2288	0.2288	61	85	-	-	0.0000
	0.30230 to < 0.39040	_	0.3435	0.3435	43	42	-	-	0.0000
	0.39040 to < 0.56000	_	0.4675	0.4675	70	101	-	-	0.0000
	0.56000 to < 0.88090	_	0.7024	0.7024	124	112	-	-	0.0000
	0.88090 to < 1.53390	-	1.1624	1.1624	192	160	-	-	0.0947
	1.53390 to < 1.98550	-	1.7451	1.7451	49	42	-	-	0.5865
	1.98550 to < 3.45720	_	2.6200	2.6200	86	42	-	-	2.4341
	3.45720 to < 4.98160	-	4.1500	4.1500	14	17	1	-	7.5862
	4.98160 to < 12.92540	-	8.0243	8.0243	24	11	5	-	18.2927
	12.92540 to < 18.62450	-	15.5154	15.5154	-	-	-	-	47.8261
	18.62450 to < 100.00000	-	30.0000	30.0000	-	-	-	-	19.0476
	100	_	100.0000	100.0000	60	53	-	-	0.0000

а	b	с	d	е	í	i	g	h	i
_					Number of	Number of obligors		ligors	
Exposure class Corporates: of which SMEs	PD range	External rating equivalent	Weighted average PD	Arithmetic average PD by obligors	End of previous year	End of the year	Defaulted obligors in the year	of which: new obligors	Average historical annual default rate
	%		%	%					%
	0 to < 0.00120	-	0.0012	0.0012	-	-	-	-	0.0000
	0.00120 to < 0.00750	-	0.0030	0.0030	-	-	-	-	0.0000
	0.00750 to < 0.01000	-	0.0080	0.0080	-	-	-	-	0.0000
	0.01000 to < 0.02640	-	0.0150	0.0150	-	-	-	-	0.0000
	0.02640 to < 0.03410	-	0.0300	0.0300	-	-	_	-	0.0000
	0.03410 to < 0.05950	-	0.0450	0.0450	2	2	_	-	0.0000
	0.05950 to < 0.07680	-	0.0676	0.0676	-	2	-	-	0.0000
	0.07680 to < 0.13410	-	0.1015	0.1015	8	5	-	-	0.0000
	0.13410 to < 0.17320	_	0.1524	0.1524	6	27	-	-	0.0000

а	b	с	d	е	1	Ŧ	g	h	i
Exposure					Number of obligors				Average
class Corporates: of which SMEs	PD range	External rating equivalent	Weighted average PD	Arithmetic average PD by obligors	End of previous year	End of the year	Defaulted obligors in the year	of which: new obligors	Average historical annual default rate
	%		%	%					%
	0.17320 to < 0.30230	-	0.2288	0.2288	38	55	-	-	0.0000
	0.30230 to < 0.39040	-	0.3435	0.3435	28	32	-	-	0.0000
	0.39040 to < 0.56000	-	0.4675	0.4675	51	87	-	-	0.0000
	0.56000 to < 0.88090	_	0.7024	0.7024	82	75	-	-	0.0000
	0.88090 to < 1.53390	_	1.1624	1.1624	92	109	-	-	0.1399
	1.53390 to < 1.98550	_	1.7451	1.7451	41	31	-	-	0.8299
	1.98550 to < 3.45720	_	2.6200	2.6200	54	35	-	-	3.3742
	3.45720 to < 4.98160	_	4.1500	4.1500	11	12	1	-	9.3220
	4.98160 to < 12.92540	_	8.0243	8.0243	23	11	5	-	18.2482
	12.92540 to < 18.62450	-	15.5154	15.5154	-	-	-	-	52.3810
	99.99990 to < 100.00000	_	30.0000	30.0000	-	-	_	-	28.5714
	100	-	100.0000	100.0000	49	42	-	-	0.0000

а	b	С	d	е	i	i	g	h	i
					Number of	obligors			
Exposure class Institutions	PD range	External rating equivalent	Weighted average PD	Arithmetic average PD by obligors	End of previous year	End of the year	Defaulted obligors in the year	of which: new obligors	Average historical annual default rate
	%		%	%					%
	0 to < 0.00120	-	0.0012	0.0012	-	-	-	-	0.0000
	0.00120 to < 0.00750	-	0.0030	0.0030	-	-	-	-	0.0000
	0.00750 to < 0.01000	-	0.0080	0.0080	-	-	-	-	0.0000
	0.01000 to < 0.02640	-	0.0150	0.0150	-	-	-	-	0.0000
	0.02640 to < 0.03410	-	0.0300	0.0300	3	4	-	-	0.0000
	0.03410 to < 0.05950	-	0.0450	0.0450	4	3	-	-	0.0000
	0.05950 to < 0.07680	-	0.0676	0.0676	10	2	-	-	0.0000
	0.07680 to < 0.13410	-	0.1015	0.1015	12	4	-	-	0.0000
	0.13410 to < 0.17320	-	0.1524	0.1524	7	18	-	-	0.0000
	0.17320 to < 0.30230	-	0.2288	0.2288	10	9	-	-	0.0000
	0.30230 to < 0.39040	-	0.3435	0.3435	8	5	-	-	0.0000
	0.39040 to < 0.56000	-	0.4675	0.4675	2	7	-	-	0.0000
	0.56000 to < 0.88090	-	0.7024	0.7024	-	-	-	-	0.0000
	0.88090 to < 1.53390	-	1.1624	1.1624	-	-	-	-	0.0000
	1.53390 to < 1.98550	-	1.7451	1.7451	-	-	-	-	0.0000
	1.98550 to < 3.45720	-	2.6200	2.6200	-	-	-	-	0.0000
	3.45720 to < 4.98160	-	4.1500	4.1500	-	-	-	-	0.0000
	4.98160 to < 12.92540	-	8.0243	8.0243	-	-	-	-	0.0000
	12.92540 to < 18.62450	-	15.5154	15.5154	-	-	-	-	0.0000
	18.62450 to < 100.00000	-	30.0000	30.0000	14	11	-	-	0.0000
	100	-	100.0000	100.0000	_	-	-	-	0.0000

Expected loss vs. loss actually incurred

The following table compares the expected loss (EL) for the commercial property lending business, which was treated under the AIRBA as at 31 December 2016 and for which actual losses were incurred in 2017. Aareal Bank defines the loss actually incurred as the sum total of additions and reversals of specific allowances for credit losses and provisions plus direct write-offs, and less recoveries on loans and advances previously written off.

The comparability of the juxtaposed indicators warrants a thorough assessment, as the methods differ. Within the framework of determining expected loss, the LGD calculation takes into account all losses incurred until final settlement, while the actually incurred loss, by definition, only includes the amounts recognised in one period.

	Actual loss				Expected loss			
	2017	2016	2015	2014	31 Dec 2016	31 Dec 2015	31 Dec 2014	31 Dec 2013
€mn								
IRBA exposure class								
Institutions	-	-	_	-	-	-	-	-
Corporates	164	171	199	126	392	345	327	148
Total	164	171	199	126	392	345	327	148

Counterparty Credit Risk

The counterparty credit risk results from derivatives and securities financing transactions, the risk being that the transaction's counterparty defaults. Thus, the transaction could not be settled as intended.

Derivatives are defined for regulatory purposes as "... unconditional forward transactions or option contracts (including financial contracts for differences) that are structured as a purchase, exchange or other acquisition of an underlying instrument, whose value is determined by reference to the underlying instrument and whose value may change in future for at least one counterparty due to future settlement" (section 19 (1a) of the KWG).

The bulk of Aareal Bank Group's derivatives positions have been entered into in order to hedge interest rate and currency risk exposure, and for refinancing purposes.

Qualitative disclosures on counterparty credit risk

Risk management targets and policies

Please see the Annual Report for further information on the risk management of counterparty credit risk.¹⁾

Internal capital allocation

Within the framework of the economic capital model for credit risks, derivatives are taken into account in the amount of their positive market value plus the regulatory add-on, determined depending on the type and term of the transaction. The netting framework agreements concluded by the Bank to reduce counterparty credit risks within the trading business are taken into account in the calculation. This also applies to additional agreements on the furnishing of collateral.

¹⁾ Aareal Bank Group 2017 Annual Report: chapters "Trading activities" (pages 56 et seqq.) and "Credit risk mitigation for trading activities" (pages 58 et seqq.) in the Risk Report

Internal limitation of risks from derivative transactions

To assess counterparty credit risk from derivative transactions, Operations prepares an internal rating for all counterparties on a regular or event-driven basis. The internal rating, along with the external ratings from Fitch Ratings, Moody's and Standard & Poor's, together represent an important indicator for determining counterparty-specific limits for the derivatives business.

Collateral and allowance for credit losses

The procedures for accepting collateral are described in the Group Annual Report.¹⁾ No allowance for credit losses was recognised for hedging derivatives, since these are recognised at fair value through profit or loss pursuant to IFRSs.

Correlation risks

Correlation risks are insignificant for Aareal Bank Group.

Impact of a rating downgrade on collateral to be furnished

In general, the collateral agreements concluded provide for rating-independent allowance amounts as well as rating-independent minimum transfer amounts. In individual cases, the collateral agreements the Bank has entered into may require that a higher amount of collateral be provided in the event of a downgrade of the Bank's external rating. However, the risk is immaterial due to the low volume and in relation to liquidity.

Valuation approach

The equivalent value of derivatives and the related counterparty credit risk are determined using the mark-to-market method (Article 274 of the CRR) for the purpose of regulatory reporting.

Quantitative disclosures on counterparty credit risk

Pursuant to Article 439 of the CRR, Aareal Bank is obliged to disclose details on the calculation of the exposure value, and on the methods to include financial collateral for securities financing transactions (SFTs), as set out in table EU CCR1 (page 56). However, this excludes trades concluded with a central counterparty (CCP) or CCP-related transactions, as well as capital requirements for credit valuation adjustment (CVA). These transactions are described in the tables below.

The Bank held no securities financing transactions on the reporting date under review.

EU CCR1: Analysis of CRR exposure by approach

	а	b	С	d	е	f	g
	Notional	Replacement cost/current market value	Potential future credit exposure	EEPE	Multiplier	EAD post CRM	RWAs
€mn							
1 Mark to market		1,113	419			613	441
2 Original exposure	-					-	-
3 Standardised approach		-			-	-	-
4 IMM (for derivatives and SFTs)				-	-	-	-
5 of which: securities financing transactions				-	-	-	-
6 of which: derivatives and long settlement transactions				_	_	_	-
7 of which: from contractual cross-product netting				-	-	-	-
8 Financial collateral simple method (for SFTs)						-	-
9 Financial collateral comprehensive method (for SFTs)						_	
10 VaR for SFTs						-	-
11 Total							441

The following table, EU CCR2, gives an overview of the credit value adjustment (CVA) calculations, resulting in additional capital requirements aimed at absorbing the risk of a negative change in the market value of OTC derivatives in the case of a decline in the counterparty's credit quality. Aareal Bank uses the standard method pursuant to Article 384 of the CRR for calculating the CVA charge.

EU CCR2: CVA capital charge

		a EAD	b RWAs
€mn			
1	Total portfolios subject to the advanced method	-	-
2	i) VaR component (including the 3x multiplier)		-
3	ii) VaR component under stress conditions (sVaR, including the 3x multiplier)		-
4	All portfolios subject to the standardised method	500	209
EU4	Based on the original exposure method	-	-
5	Total subject to the CVA capital charge	500	209

Table EU CCR8 discloses the exposure value and risk-weighted exposure (RWA) for exposures to a central counterparty. As at the reporting date, Eurex Clearing AG (which is a qualified counterparty) acted as central counterparty to Aareal Bank. There were no exposures to non-qualified CCPs as at the reporting date of 31 December 2017.

EU CCR8: Exposures to CCPs

		a EAD post CRM	b RWAs
€m	n		
1	Exposures to QCCPs (total)		0
2	Exposures for trades at QCCPs (excluding initial margin		
	and default fund contributions); of which	10	0
3	i) OTC derivatives	10	0
4	ii) Exchange-traded derivatives	-	-
5	iii) SFTs	-	-
6	iv) Netting sets where cross-product netting has been approved	-	-
7	Segregated initial margin	-	
8	Non-segregated initial margin	-	-
9	Prefunded default fund contributions	-	-
10	Alternative calculation of own funds requirements for exposures		-
11	Exposures to non-QCCPs (total)		-
12	Exposures for trades at non-QCCPs (excluding initial margin		
	and default fund contributions); of which	-	-
13	i) OTC derivatives	-	-
14	ii) Exchange-traded derivatives	-	-
15	iii) SFTs	-	-
16	iv) Netting sets where cross-product netting has been approved	-	-
17	Segregated initial margin	-	
18	Non-segregated initial margin	-	_
19	Prefunded default fund contributions	-	-
20	Unfunded default fund contributions	-	-

The purpose of table EU CCR3 is the disclosure of the exposure amount after mitigating credit risk of all counterparty credit risk to which CRSA is applied, by analogy with table EU CR5 for each exposure class, and broken down according to risk weight pursuant to Article II4 et seqq. of the CRR. Due to its insignificant share in EaD of all CRSA exposures (0.2%), we do not believe that disclosing the table would provide any additional information.

The following table EU CCR4 shows the derivative exposures treated in AIRBA – by analogy with the table EU CR6 within clearly-defined PD classes.

The derivatives held by Aareal Bank Group, and entered into with internally rated property customers whose share in EaD after mitigating the credit risk of the entire AIRBA client portfolio is below one per cent, are mainly used to hedge interest rate and currency risks. As the available collateral is fully considered within the scope of determining the LGD of the respective property financing, a default LGD of 90% is used for calculating the expected loss.

EU CCR4: IRB approach – counterparty credit risk exposure by portfolio and PD scale

Exposure class	PD scale	а	b	с	d	е	f	g
		EAD post CRM	Average PD	Number of obligors	Average LGD	Average maturity	RWAs	RWA density
		€mn	%		%		€mn	%
Corporates – SMEs	0.00 to < 0.15	-	-	-	-	-	-	-
	0.15 to < 0.25	16	0.23	8	90.00	900	13	83.50
	0.25 to < 0.50	12	0.46	20	90.00	846	13	110.48
	0.50 to < 0.75	15	0.70	8	90.00	1,385	26	171.80
	0.75 to < 2.50	27	1.16	11	90.00	983	52	189.07
	2.50 to < 10.00	2	2.62	2	90.00	841	4	199.72
	10.00 to < 100.00	_	-	-	-	-	-	-
	100.0 (Default)	_	-	-	-	-	-	-
	Subtotal	72	0.78	49	90.00	1,022	108	149.26
Corporates – Others	0.00 to < 0.15	0	0.07	1	90.00	970	0	30.40
	0.15 to < 0.25	1	0.20	7	90.00	571	1	75.10
	0.25 to < 0.50	6	0.47	4	90.00	882	9	141.87
	0.50 to < 0.75	12	0.70	1	90.00	1,800	27	235.93
	0.75 to < 2.50	4	1.16	3	90.00	375	6	166.70
	2.50 to < 10.00	-	-	-	-	-	-	-
	10.00 to < 100.00	-	-	-	-	-	-	-
	100.0 (Default)	-	-	-	-	-	-	-
	Subtotal	23	0.68	16	90.00	1,259	43	190.04
Institutions	0.00 to < 0.15	53	0.09	4	13.97	1,145	8	15.56
	0.15 to < 0.25	1,246	0.17	24	12.05	1,384	230	18.47
	0.25 to < 0.50	50	0.37	7	37.17	1,033	35	69.82
	0.50 to < 0.75	-	-	-	-	-	-	-
	0.75 to < 2.50	-	-	-	-	-	-	-
	2.50 to < 10.00	-	-	-	-	-	-	-
	10.00 to < 100.00	-	-	-	-	-	-	-
	100.0 (Default)	-	-	-	-	-	-	-
	Subtotal	1,349	0.17	35	13.05	1,361	273	20.25
	Total	1,444	0.21	100	18.11	1,343	424	29.37

By analogy with the statement of the credit risk exposures, the average PD and LGD values of the counterparty credit risk exposure treated in AIRBA, split according to major geographical markets, are also disclosed.

Corporates – SMEs	Exposure amounts	Average LGD	Average PD	
	€mn	%	%	
Germany	10	90.00	0.63	
Western Europe	53	90.00	0.81	
Northern Europe	4	90.00	0.66	
Southern Europe	1	90.00	0.70	
Eastern Europe	4	90.00	0.85	
North America	-	-	-	
Asia	-	_	-	
Total	72	90.00	0.78	

Exposure amounts	Average LGD	Average PD	
€mn	%	%	
0	90.00	0.47	
21	90.00	0.71	
1	90.00	0.20	
-	-	-	
1	90.00	0.47	
-	-	-	
-	_	_	
23	90.00	0.68	
	€mn 0 21 1 - 1 1 -	€mn % 0 90.00 21 90.00 1 90.00 - - 1 90.00 - - 1 90.00 - - - - - - - - - - - - - -	

Institutions	Exposure amounts	Average LGD	Average PD
	€mn	%	%
Germany	784	14.68	0.18
Western Europe	471	9.00	0.17
Northern Europe	83	18.05	0.15
Southern Europe	2	38.60	0.34
Eastern Europe	-	_	-
North America	9	31.14	0.16
Asia	-	-	-
Total	1,349	13.05	0.17

Pursuant to Article 439 (e) of the CRR, Aareal Bank must disclose the effect of netting and of collateral held on derivatives exposures (including those settled via a CCP), in table EU CCR5-A, broken down by type of contract. Master agreements with netting clauses provide for the netting of claims and liabilities in the event of insolvency or counterparty default, and thus further reduce counterparty risk.

EU CCR5-A: Impact of netting and collateral held on exposure values

		a	b	с	d	е
		Gross positive fair value or net carrying amount	Netting benefits	Netted current credit exposure	Collateral held	Net credit exposure
€m	าท					
1	Derivatives	2,240	1,126	1,114	919	195
2	SFTs	-	-	-	-	-
3	Cross-product netting	-	-	-	-	-
4	Total	2,240	1,126	1,114	919	195

The aggregate positive replacement value for our derivatives contracts subject to reporting requirements stood at \in 2,240 million at year-end 2017. This amount is reduced to \in 195 million through netting framework agreements (see chapter "Credit risk mitigation") in the amount of \in 1,126 million and the deduction of collateral provided in the amount of \in 919 million.

At present, we neither use credit derivatives to hedge individual contracts, nor do we act as a broker, seller or buyer of credit derivatives. Table EU CCR5-B supplements the disclosure requirements under Article 439 lit. (e) of the CRR, as well as the disclosures in table EU CCR5-A with additional information on collateral received or posted. For this purpose, collateral received or posted must be broken down by type of financial instrument, and by segregated and non-segregated collateral. Collateral is deemed to be segregated if client assets are bankruptcy-remote as defined in Article 300 (1) of the CRR.

EU CCR5-B: Composition of collateral for exposures subject to counterparty credit risk

	а	b	С	d	е	f
	Collat	eral used in der	rivative transaction	ons	Collateral u	sed in SFTs
	Fair value of receiv		Fair value o collat		Fair value of collateral received	Fair value of posted collateral
	Segregated	Unsegre- gated	Segregated	Unsegre- gated		
€mn						
Cash collateral	3	963	2	597	-	-
Government bonds	-	-	8	-	-	-
Total	3	963	10	597	-	-

Liquidity Risks

Liquidity risk in the narrower sense is defined as the risk that current or future payment obligations cannot be met in full or on time. Aareal Bank Group's liquidity risk management system is designed to ensure that the Bank has sufficient cash and cash equivalents to honour its payment obligations at any future point in time. The risk management and monitoring processes have been designed to cover refinancing and market liquidity risks in addition to liquidity risk in the narrower sense.

Treasury is responsible for managing liquidity risks, whilst Risk Controlling ensures the continuous monitoring.

Liquidity risk strategy

In general, Aareal Bank Group maintains a low risk tolerance. The Bank's portfolio comprises a broad range of liquid and high-quality securities, ensuring the Bank's ability to generate large volumes of liquidity at short notice, and thus prevent liquidity shortages, even in a tight market environment or a crisis scenario.

Within the framework of the refinancing strategy, various money and capital market instruments are used to achieve a broadly-diversified range of funding vehicles. Regarding money-market instruments, this includes, in particular, client deposits (from institutional investors and the housing industry), repo transactions on the interbank market and on Eurex, open-market transactions with the ECB. Capital markets instruments used include, in particular, covered bonds (Pfandbriefe), uncovered and subordinated bearer bonds issued within the scope of the Debt Issuance Program (DIP), uncovered and subordinated registered bonds and promissory note loans, etc.

Liquidity controlling and management

The Treasury division is responsible for intraday as well as short- and medium-term liquidity manage-

ment. Operative short- and medium-term liquidity management is based on liquidity balance sheets and cash flow analyses, which are constantly being developed and incorporated in the regular liquidity status report. To analyse both the maturity structure and the quality of the individual money market and capital market products, the cash flows from the various refinancing sources and liquidity reserves are divided into different liquidity classes which are incorporated differently into the assessment of the liquidity status. The various properties, such as rollover probability, collateralisation, or ability to liquidate, are thus accounted for, thereby allowing the possible liquidity risks to be selectively quantified. The overall liquidity situation is broken down into several maturity ranges, taking into account possible stress scenarios. From our point of view, the most significant scenario is the institution-specific "idiosyncratic stress" scenario, which simulates a withdrawal of funds deposited by public-sector entities and banks, as well as a 30% reduction in current account balances. Even in this stress scenario, liquidity is sufficient to cover the expected liquidity needs under stress conditions.

Managing and monitoring risk concentrations in the area of liquidity risks focuses on liquidity providers, the instruments used to raise liquidity, the liquidity inventory, as well as on any concentrations of liquidity needs which may arise over time.

Risks are communicated by means of daily reporting to Treasury and to the members of the Management Board responsible for Treasury and monitoring. As part of monthly reporting, the entire Management Board is also briefed on the situation as regards liquidity risks. In addition, we notify further units if required.

Liquidity Coverage Ratio

The Liquidity Coverage Ratio (LCR) helps to measure whether the liquidity buffer of an institution is high enough. Pursuant to Article 412 (1) of the CRR, the Liquidity Coverage Ratio is calculated as the ratio of the liquidity buffer relative to net outflows during a stress phase of 30 calendar days. The LCR for the reporting year 2017 amounts to at least 80%. As of I January 2018, a minimum Liquidity Ratio of 100% must be ensured.

The following table is based on the EBA guidelines on disclosure of the Liquidity Coverage Ratio (EBA/GL/2017/01). Quantitative details are disclosed using the weighted and unweighted average values of the last 12 reporting days of the respective quarter. Based on the transitional provisions included in the guidelines, as at the reporting date only the quarters ending 30 September and 31 December 2017 shall be disclosed, as – according to the Implementation Regulation (EU) 2016/322 – the LCR was reported for the first time as at 30 September 2016.

Instruments

Scop	e of consolidation (consolidated)	Total unweig avera		Total weighted value (average)	
		Quarter ends 30 Sep 2017	Quarter ends 31 Dec 2017	Quarter ends 30 Sep 2017	Quarter ends 31 Dec 2017
€mn					
Numb	per of data points used for the calculation of averages	12	12	12	12
High-	-quality liquid assets				
1	Total high-quality liquid assets (HQLA)			7,424	7,264
Cash	outflows				
2	Retail deposits and deposits from small business customers, of which:	3,480	3,671	278	292
3	Stable deposits	1,632	1,744	82	87
4	Less stable deposits	1,848	1,927	196	205
5	Unsecured wholesale funding	6,652	6,544	2,544	2,429
6	Operational deposits (all counterparties) and deposits in networks of cooperative banks	3,457	3,399	776	731
7	Non-operational deposits (all counterparties)	3,114	3,082	1,687	1,635
8	Unsecured debt	81	63	81	63
9	Secured wholesale financings			3	3
10	Additional requirements	1,250	1,192	532	479
11	Outflows related to derivative exposures and other collateral requirements	409	355	390	335
12	Outflows related to loss of funding on debt products	6	6	6	6
13	Credit and liquidity facilities	835	832	136	138
14	Other contractual funding obligations	163	125	106	66
15	Other contingent funding obligations	624	683	45	43
16	Total cash ouflows			3,507	3,313
Cash	inflows				
17	Secured lending (e.g. reverse repos)	8	8	2	2
18	Inflows from fully performing exposures	460	442	235	226
19	Other cash inflows	101	59	101	59

Scope	of consolidation (consolidated)	Total unweighted value (average)		Total weighted value (average)	
		Quarter ends 30 Sep 2017	Quarter ends 31 Dec 2017	Quarter ends 30 Sep 2017	Quarter ends 31 Dec 2017
€mn					
EU-19a	(Difference between total weighted inflows and total weighted outflows arising from transactions in third countries where there are transfer restrictions or which are denominated in non-convertible currencies)			_	_
EU-19b	(Excess inflows from a related specialised credit institution)			-	-
20	Total cash inflows	569	509	339	288
EU-20a	Fully exempt inflows	-	-	-	-
EU-20b	Inflows subject to 90 % cap	-	-	-	-
EU-20c	Inflows subject to 75% cap	569	509	339	288
				Total adjust	ted value
21	Liquidity buffer			7,424	7,264
22	Total net cash outflows			3,168	3,025
23	Liquidity coverage ratio (%)			234.33	240.13

During the period under review the LCR always significantly exceeded the target ratio of 150% as at the reporting dates. The main reason is the high volume of High Quality Liquid Assets (HQLA). The HQLA predominantly comprise the asset class "public-sector borrowers" and deposits with central banks. Please see the Annual Report¹⁾ for further information on the composition of the HQLA. Customer deposits from the housing industry, which represent a strategically important source of funding, are the main component of cash outflow.

Currency mismatches in the Liquidity Coverage Ratio

Pursuant to Article 415 (2) of the CRR, Aareal Bank has no significant foreign currency exposure in its portfolio. As at the reporting date, the largest foreign currency portfolio in USD amounts to 4.0% of total liabilities. The Bank monitors the portfolio as to the existence of significant foreign currency exposures on a regular basis.

Derivatives positions and potential hedging requests

Pursuant to Article 423 (3) of the CRR, an additional liquidity outflow is to be provided for collateral which is required due to the impact of unfavourable market conditions on derivatives and financing transactions as well as on other contracts. The aim is to consider additional outflows from collateral potentially arising in an unfavourable market environment. Aareal Bank determines the additional outflow as per the historical look-back approach (HLBA). The LCR calculation includes the largest absolute collateral net flow within a period of 30 days which occurred in the last 24 months. The annual average of additional liquidity requirements stood at \in 332 million.

¹⁾ Aareal Bank Group 2017 Annual Report: chapter "Securities portfolio", pages 45 et seqq., in the Economic Report of the Group Management Report

Operational Risks

Operational risk is defined for regulatory purposes as the risk of losses resulting from inadequate or failed internal processes or systems, from human error, or from external events. This definition also includes legal and model risks. In contrast, strategic and reputational risks – as far as they are not related to operational risks – as well as systematic risks are not included.

Ultimately, in contrast to other risk types, operational risks always represent the disruption of the production process. If the components of the production process change, the situation as regards operational risks within the company changes as well.

Risk Controlling is responsible for the central coordination of all aspects related to controlling operational risks, including the authority to select methods for identifying and monitoring of risks and loss events. This also includes risk reporting.

Strategy for the treatment of operational risks

The strategy pursued by the Bank which is based on specialised and individualised businesses results in less standardised and mechanised processes and workflows when compared with institutions that focus on standardised businesses. The consequence of this for Aareal Bank is that the operational risk is more strongly characterised by the categories People/Employees and Processes, and less strongly by the categories Systems/ Technology and External Events. The structure of the risk environment, as described in this section, is not expected to change materially over the medium term.¹⁾

The insights described herein result in a conscious and rigorous risk strategy in connection with the treatment of operational risks. Within the framework of this risk strategy, a decision is made with regard to avoiding (incl. relevant risk mitigation strategies), accepting/entering into or transferring/ hedging risk positions. Deciding factors for the related decisions are both the economic reasonableness of the decisions and the Bank's risk appetite. The aim of all these efforts is to generate a balanced risk profile on the basis of a regularly applied risk analysis.

Against the background of this risk environment, we generally avoid a concentration of operational risk exposure. This is achieved, among other things, via adequate long-term measures as well as through the consistent implementation of a precisely defined set of controlling instruments for the identification and monitoring of operational risks and resulting loss events. These instruments are tailored to the Bank and its specific risk profile.

Instruments used to control operational risks

Operational risks and the resulting loss events are systematically identified, assessed, monitored and addressed, if necessary, using controlling measures within Aareal Bank under the framework of a regular cycle. Risk identification is made via the instruments Self-Assessment (early risk identification), risk inventories (risk identification and monitoring), as well as via maintaining and monitoring a loss database.

Stress testing

Suitable and plausible stress tests are conducted at Aareal Bank in the context of operational risks. These are hypothetical scenarios and sensitivity analyses on the risk inventories. The results of the stress tests are reported regularly to the Management Board and serve as an indicator for potential developments within the risk type "Operational risks" that could jeopardise the continued existence of the Group.

¹⁾ ICT topics (such as data protection, etc.) and the risks arising therefrom are generally less related to the absence of technical solutions, but are caused by non-functioning or insufficient internal processes and controls. Hence, these risks are not shown in the Systems/Technology category.

Backtesting

Annual back-testing is performed for the risks as part of risk identification and risk monitoring. This involves determining the relation between loss events expected from individual risks and reported incidents of such loss events. Based on the results from backtesting, adjustments are made to the controlling instruments used to manage operational risks.

Regulatory assessment

As a rule, the capital charge for the Group's operational risks is calculated according to the so-called "Standardised Approach" (STA) pursuant to Article 317 et seqq. of the CRR.

As an international property specialist, we limit our operations to trading and sales, commercial banking, retail banking, plus payment and settlement provided within the scope of the Standardised Approach.¹⁾

In accordance with regulatory requirements, the calculation of capital requirements were based on the regulatory scope of consolidation for the first time as at 1 January 2017 (previously, the scope of consolidation in accordance with IFRSs was applicable). This led to lower weighted gross income in the segment reporting.

Article 317 (2) of the CRR defines regulatory risk weights (so-called "beta factors") for the individual business lines forming the basis of the Standardised Approach. We use these defined weightings rather than exercising the option to apply proprietary beta factors.

The "commercial banking" business line accounts for 91 % of the relevant indicator.

As segment reporting is not in line with the breakdown of business lines pursuant to the CRR, the individual items of the segment report are re-allocated on the basis of factually logical arguments. Statistical values are partially used as further supporting data (such as the ratio of private vs. commercial loans).

For details regarding capital requirements attributable to operational risk, please refer to the overview of capital requirements for all types of risk within the Regulatory Capital Requirements chapter (page 22 et seqq).

Investment Risks

Investment risk strategy

Aareal Bank Group acquires equity investments strictly for the purpose of positioning the Group as an international property financing specialist and provider of property-related services. While the standard banking risks mainly exist within Aareal Bank AG and the equity investments in banks, the other subsidiaries are frequently exposed to other risks. Due to their special character, these risks cannot be measured and managed using the same methods and processes. These risks are centralised in a separate risk category called "Investment risks" and included in the centralised risk management system through an investment risk controlling concept.

In general, all types of investments contribute to investment risk. The main focus of investment risk controlling, however, is on operating non-bank shareholdings, since these companies have business models different from that of Aareal Bank AG. The statistical methods and procedures applied in the banking business – such as VaR models – are generally not suitable to assess the risks of these companies. For this reason, we pursue a qualitative approach for investment risk control which attempts to estimate the risk content on the basis of the balance sheet and income statement

¹⁰ Due to the fact that the CRR does not provide for a separate adequate business line for the operating segment "Consulting/ Services", the relevant income of that segment is weighted using the highest beta factor (18%, corresponding, inter alia, to the beta factor for the trading and sales business).

analyses conducted within the scope of investment risk controlling. The investments covered are classified into different risk classes. Each risk class has specific risk weightings, which are used to translate the carrying amount of the investment into a risk equivalent value. Based on this risk equivalent value, Risk Controlling monitors compliance with the limits for investment risks.

Based on the type, scope, complexity and risk level of transactions, processes should be set up for the early identification of risk potential and for controlling and monitoring these risks in accordance with the Minimum Requirements for Risk Management (MaRisk).

This requirement is complied with through a riskadequate investment controlling system within the framework of implementing the investment strategy, where the different autonomy requirements of investments are accounted for.

The controlling philosophy of Aareal Bank Group defines to which extent the business activities of the investments are influenced, and who exercises this influence. The controlling philosophy also determines the structure for controlling equity investments. A distinction has to be made between a direct and indirect influence on the investments.

The more important the investment is, the more direct influence will be taken and regulatory reporting will be required; the Group's head office will be involved in material business decisions. In case of an indirect influence, the investments have more discretion as regards business decisions. The carrying amount underlying these companies, in aggregate, is insignificant when measured against the total carrying amount of all subsidiaries.

Pursuant to MaRisk, risks from investments have to be included as part of Aareal Bank AG's overall risk reporting. For this purpose, the investment risks are determined and assessed by the Finance & Controlling division. The Risk Controlling division reports to the Management Board as regards investment risks within the framework of regular risk reporting, also on a quarterly basis. Moreover, risk control and risk monitoring is supplemented by various reviews which the department or the companies are subjected to.

Pursuant to the MaRisk, the equity investment management has to be reviewed in reasonable time intervals by Internal Audit. This also involves system reviews (organisational structures and workflows, risk management and controlling, internal control system), taking into consideration the principles for a risk-oriented review. In addition, the investments themselves are subjected to a review, performed by the Group Audit division of Aareal Bank AG.

In accordance with MaRisk, the auditor has to get an overview of equity investment control and its organisation, the related risks as well as the internal control systems and procedures – and has to assess the appropriateness and effectiveness of the processes and procedures. Furthermore, material subsidiaries are also subjected to a review by an auditor.

In our business model, we make a distinction between the two segments, Structured Property Financing and Consulting/Services.

Our equity investments reflect the medium- to longterm strategic objectives of our business model.

Structured Property Financing

- We enter into strategic investments to support our property financing activities, particularly abroad.
- Special-purpose entities within the scope of foreclosed assets are used to secure real property liens.

Consulting/Services

 Strategic investments allow us to offer the housing and commercial property industries in Germany – as well as in selected European countries – plus the German utilities and waste disposal industries, services and products for managing residential property portfolios and processing payment flows. • Investments in companies that provide the Group and third parties with other property or IT services.

Regulatory assessment

The statements below exclusively refer to investments that are not part of the regulatory scope of consolidation and are therefore included as riskweighted assets in the report pursuant to sections 10, 10a of the KWG.

From a regulatory perspective, all investments of Aareal Bank AG are covered by the Advanced IRB Approach. The Simple Risk Weight Approach, pursuant to Article 155 of the CRR, is used for the determination of the risk-weighted exposure amounts.

Measurement and accounting policies

Aareal Bank AG includes the majority of the companies concerned in its IFRS consolidated financial statements (full consolidation) since it controls the financial and operating policies of these companies as the parent entity of the Group.

Companies over which Aareal Bank AG may exercise a significant influence ("associates") are

included in the consolidated financial statements, using the equity method. Furthermore, Aareal Bank AG holds a joint arrangement, whose assets and liabilities, as well as income and expenses, are recognised in line with the interest held by the Bank.

Investments that are not consolidated under IFRSs are allocated within Aareal Bank Group to the "Available for Sale" (AfS) measurement category, and are recognised under non-trading assets in the statement of financial position.

Further information on measurement and accounting principles is provided in our Annual Report.¹⁾

Valuations

The following table shows aggregate investments in relation to their strategic objective, excluding investments consolidated for regulatory purposes.

The overview compares the carrying amounts with fair values. Since it is not necessary from an accounting perspective to determine the carrying amounts and the fair values for the fully-consolidated companies, the carrying amount and the fair value of the majority of these companies are derived from their equity capital for disclosure purposes.

	Carrying amount	Fair value
€mn		
Structured Property Financing	159	159
of which: listed investments	0	0
of which: other equity investments	159	159
Consulting/Services	157	157
of which: listed investments	-	-
of which: other equity investments	157	157

¹⁾ Aareal Bank Group 2017 Annual Report: chapter "Accounting Policies" in the Notes to the consolidated financial statements, pages 94 et seqq.

Table EU CR10 in the Regulatory Capital Requirements chapter provides an overview of the breakdown of investments across risk weights, using the simple risk weight method, pursuant to Article 155 (2) of the CRR, as well as of the respective IRBA risk exposure value and RWA.

Result from equity instruments

During the year under review, we wound up one company, realising a result which was not material.

Other investments held comprise unrealised revaluation gains calculated in accordance with the IFRSs (immaterial amount).

Market Risks

Market price risk is broadly defined as the threat of losses due to changes in market parameters. Aareal Bank's market price risk exposure predominantly comprises interest rate risks, whilst currency risks are largely eliminated through hedges. Hence, the primary market price risk exposures are related to the risk parameters for interest rates, equity prices, and exchange rates.

Risk Controlling uses the latest methods and tools for the measurement and analysis of market price risks. Up-to-date reporting to management on the Group's risk profile provides decisive input for all short-, medium- and long-term investment decisions. Value-at-risk (VaR) has established itself as the method for measuring general market price risk. This concept, as well as stress testing and sensitivity analysis used as further methods to measure market risks, are described in detail in the Annual Report.¹⁾

Risk management, especially with regard to market and interest rate risks of the banking book, is performed within the Treasury division and monitored by the Risk Controlling division. Based on the daily market risk report, all changes of the present value in all currencies are analysed on a daily basis; if necessary, risk-reducing measures are taken. In addition, the general interest rate and market price risk situation is discussed during weekly meetings of the Transaction Committee. The Transaction Committee comprises the Management Board member responsible for Treasury, the Head of Treasury as well as the department heads of Treasury. The Transaction Committee makes decisions as regards the general approach with respect to the management of market and interest rate risks.

In the area of market price risks, we monitor and control concentration risks, in particular with respect to the relevant risk factors (interest rate risks, currency risks etc.), products and individual companies of Aareal Bank Group.

Market risk strategy

Our exposure to the capital market is based on a responsible and sustained strategy. Identified risks are offset, for example, through hedging agreements.

Interest rate positions from the current lending and refinancing business, which are intended to be hedged, are closed out using interest rate derivatives. Generally, we use one-to-one hedges to meet IFRS hedge accounting criteria. Macro hedges, where IFRS hedge accounting cannot be used, are an exception to this.

The lending and refinancing business in foreign currencies is managed using money market transactions and FX swaps in the respective currency. The currency positions from accumulated lending and refinancing margins are reviewed regularly and closed out on a timely basis. Basic risks from differing fixing dates are largely avoided for each currency by selecting suitable roll dates.

We do not invest in precious metals, other commodities and raw materials. Similarly, there are currently no amounts to be included for net equity

¹⁾ Aareal Bank Group 2017 Annual Report: chapter "Market price risks" in the Risk Report of the Group Management Report, pages 61 et seqq.

or equity index positions. We calculate the regulatory capital requirements for foreign currency risk based on the rights and obligations as well as investments in foreign currencies.

Regulatory capital requirements for market risk in the standardised approach

We do not use an internal model for the regulatory assessment of market risk, but employ standard regulatory procedures instead.

The option provided in Article 340 of the CRR, as well as the duration-based approach, are used to calculate general risks.

We do not apply any lump-sum weighting amounts for investment fund units in accordance with Article 348 (1) of the CRR.

The following overview shows the own funds requirements for the different market risk positions in accordance with Article 92 (3) lit. c) of the CRR.

No trading activity took place during the financial year under review.

Interest rate risk in the banking book

Whilst the net interest position is calculated to determine regulatory capital requirements for market risk, the calculation of interest rate risk in the banking book does not impact on the capital representation for regulatory purposes.

Interest rate risk is broadly defined as the threat of losses due to changes in market parameters. From an economic perspective, interest rate risk represents a key variable for observing market price risk.

Measurement method and basic assumptions

Aareal Bank uses the VaR concept to measure interest rate risks in the banking book. The VaR for market price risks quantifies the exposure as a negative divergence from the current aggregate value of the Bank's financial transactions.

A variance-covariance approach (delta-normal method) is used throughout the Group to determine the VaR indicator on a daily basis. Statistical parameters used in the VaR model are calculated directly from a 250-day historical data pool maintained within the Bank. The loss potential is determined applying a 95% confidence interval and a 250-day holding period.

EU MR1: Market risk under the standardised approach

		a RWAs	b Capital requirements
€n	าท		
	Outright products		
1	Interest rate risk (general and specific)	-	-
2	Equity risk (general and specific)	-	_
3	Foreign exchange risk	134	11
4	Commodity risk	-	-
	Options		
5	Simplified approach	_	-
6	Delta-plus method	-	-
7	Scenario approach	-	-
8	Securitisation (specific risk)	-	-
9	Total	134	11

By their very nature, VaR calculations are based on assumptions regarding the future development of the business, and the related cash flows. Key assumptions used include current account balances which are factored into calculations for a period of two years, using the average residual amount of deposits observed in the past. Loans are taken into account using their fixed-interest period (for fixedrate exposures), or using their expected maturity (variable-rate exposures). Aareal Bank's equity is not taken into account as a risk-mitigating item. This tends to overstate VaR, demonstrating the conservative approach adopted in our risk measurement processes – together with considering only contractual maturities.

Based on the daily market risk report, all changes of the present value in all currencies are analysed; if necessary, risk-reducing measures are taken. In addition, the general interest rate situation is discussed during the weekly meetings of the Transaction Committee. The Transaction Committee makes decisions as regards the general approach with respect to the management of interest rate risks.

Impact of an interest rate shock on profit or loss

The underlying interest rate shock scenarios stipulated by the banking regulators for external reporting purposes (including parallel yield curve shifts by 200 basis points, whereby a 0% floor applies to downshift rates, and existing negative nominal interest rates remain unchanged in the downshift) resulted in a present-value change of \in -177.6 million and \in +127.3 million, respectively, for all currencies as at 31 December 2017¹⁾.

Of the currencies reviewed in the following table, the euro is the most important individual currency for us, with a \in -140.5 million / \in +164.4 million change in present value.

The ratio of the sum of all currencies relative to Aareal Bank Group's regulatory capital (in accordance with section 10a of the KWG) for these interest rate shock scenarios is 5.2% as at the reporting date. As in the previous years, this figure is well below the maximum limit of 20%.

Interest rate shock		Present va	lue change
+	+ -		Increase
bp	bp	€mn	€mn
200.0	200.0	-140.5	164.4
200.0	200.0	-16.1	-16.1
200.0	200.0	-8.8	-8.8
200.0	200.0	-12.2	-12.2
		-177.6	127.3
	+ bp 200.0 200.0 200.0	+ - bp bp 200.0 200.0 200.0 200.0 200.0 200.0	+ - Decrease bp bp € mn 200.0 200.0 -140.5 200.0 200.0 -16.1 200.0 200.0 -8.8 200.0 200.0 -12.2

Encumbered and Unencumbered Assets

The Asset Encumbrance provides an overview of the degree of asset encumbrance and – derived from this overview – an assessment of the Bank's ability to meet its financial obligations. The Asset Encumbrance Ratio, a key indicator of asset encumbrance, presents total encumbered assets and total collateral reused in proportion to total assets and total collateral received. Assets are considered encumbered or used if they are not freely available to the institution. This is always the case if an asset is pledged or subject to lending arrangements or any form of arrangement to secure, collateralise or credit-enhance any originated loans or potential commitments from derivative transactions or any on-balance-sheet or off-balance-sheet transactions.

¹⁾ The calculation was carried out for Aareal Bank Group.

The information provided below is based on the EBA guidelines on disclosure of encumbered and unencumbered assets (EBA/GL/2014/03), as well as on the Delegated Regulation EU 2017/2295

dated 4 September 2017, and the corresponding reporting forms. Quantitative details are disclosed using median values of data reported to supervisory authorities during 2017, on a quarterly basis.

Assets

		Carrying amount of encumbered assets	Fair value of encumbered assets	Carrying amount of unencumbered assets	Fair value of unencumbered assets
		010	040	060	090
€mr					
010	Assets of the reporting institution	20,938		23,019	
030	Equity instruments	-		302	
040	Debt securities	3,221	3,225	5,656	5,542
050	of which: covered bonds	-	_	387	388
060	of which: asset-backed securities	-	-	-	-
070	of which: instruments issued by subsidiaries	3,046	3,049	4,818	4,702
080	of which: instruments issued by financial				
	companies	175	176	854	855
090	of which: instruments issued by non-financial				
	companies	-	-	21	21
120	Other assets	17,526		17,064	

Collateral received

Unencumbered

Fair value of collateral received available for emcumbrance or own issued debt securities available for encumbrance

040

Fair value of encumbered collateral received or encumbered own issued debt securities 010

€mn		
130	Collateral received from the reporting institution -	-
140	Loans payable on demand –	-
150	Equity instruments –	-
160	Debt securities –	-
170	of which: covered bonds -	-
180	of which: asset-backed securities -	-
190	of which: instruments issued by subsidiaries -	-
200	of which: instruments issued by financial companies -	-
210	of which: instruments issued by non-financial companies -	-
220	Loans and advances, other than loans payable on demand –	-
230	Other collateral received	-
231	of which:	-

		Fair value of encumbered collateral received or encumbered own issued debt securities 010	Unencumbered Fair value of collateral received available for emcumbrance or own issued debt securities available for encumbrance 040
€mn		010	040
240	Issued own debt securities other than own covered bonds or asset-backed securities	-	47
241	Own covered bonds and issued asset-backed securities not yet posted as collateral		-
250	Total of assets, collateral received and issued own debt securities	20,938	

Encumbered assets/collateral received and associated liabilities

	Matching liabilities, contingent liabilities or securities lent 010	Encumbered assets, collateral received and issued own covered bonds other than covered bonds and asset-backed securities 030
€mn		
010 Carrying amount of selected financial liabilities	17,522	20,872

Information on importance of encumbrance

Aareal Bank determines the encumbrance of assets in accordance with Implementation Regulation (EU) 2015/79. Unchanged from the previous year, in addition to the cover assets pool, derivatives as well as – occasionally – securities repurchase transactions (repos) are key sources of encumbrance as at 31 December 2017. Aareal Bank Group issues Pfandbriefe (German covered bonds) which are collateralised with receivables and securities. Aareal Bank AG's cover assets pools held for issuance of covered bonds account for the encumbrance of assets in a total amount of € 16 billion.

The changes in the total amounts of encumbered assets and collateral received, as well as the shift in the ratio of both totals, compared to the previous reporting period, was largely attributable to a reduction in lending volume, combined with a reduction of the cover assets pools. On a Group level, no structure of encumbrance between entities within Aareal Bank Group existed, due to consolidation. A significant over-collateralisation only applied to the cover assets pool. Besides compliance with statutory minimum excess cover requirements, over-collateralisation also serves to satisfy the requirements of rating agencies.

Collateral is provided and accepted predominantly on the basis of standardised agreements on securities repurchase transactions and on the collateralisation of forward transactions. Derivatives transactions are generally entered into only on the basis of the German Master Agreement for Financial Derivatives, or the ISDA Master Agreement. Such master agreements provide for the netting of claims and liabilities in the event of insolvency or counterparty default, and thus further reduce counterparty risk. Unencumbered other assets include approximately \in 0.4 billion in assets which cannot be encumbered within the scope of current business operations: this largely relates to properties intended for disposal (60%), as well as to tax reclaims and deferred tax assets (38%).

Remuneration

Remuneration policy disclosure requirements pursuant to Article 450 of the CRR are generally fulfilled in the Annual Report.¹⁾ The quantitative disclosures on the remuneration of Management Board members, employees as well as senior executives required will be produced only after the financial year's reporting date and be disclosed by the end of June 2018, on Aareal Bank AG's homepage.

Leverage Ratio

The Bank manages the risk of excessive leverage on a quarterly basis, within the scope of forecasting own funds. For this purpose, both (fully-loaded) Tier I capital and total assets are forecast for the year-end dates of the two following years, one month prior to the end of each quarter. In this context, the minimum 3 % Leverage Ratio, as set out in the framework published by the Basel Committee on Banking Supervision in 2014, must be complied with at any time. The information is then submitted to senior management.

Aareal Bank determines the (phased-in) Leverage Ratio, taking into account the regulatory scope of consolidation, based on the Delegated Regulation (EU) 2015/62, as published in the EU Official Journal on 17 January 2015. Pursuant to Article 14 (2) of the Implementation Regulation (EU) 2016/428, the Leverage Ratio is calculated using quarter-end data.

The following disclosure tables are based on the requirements set out in the Implementation Regulation (EU) 2016/200 dated 15 February 2016.

Summary reconciliation of accounting assets and leverage ratio exposures (LRSum)

6		Applicable amount
€ mn 1	Total assets as per published financial statements	41,907
2	Adjustment for entities which are consolidated for accounting purposes but are outside the scope of regulatory consolidation	286
3	(Adjustment for fiduciary assets recognised on the balance sheet pursuant to the applicable accounting framework but excluded from the leverage ratio total exposure measure in accordance with Article 429 (13) of Regulation (EU) 575/2013)	-
4	Adjustments for derivative financial instruments	(2,194)
5	Adjustments for securities financing transactions (SFTs)	-
6	Adjustment for off-balance sheet items (i.e. conversion to credit equivalent amounts of off-balance sheet exposures)	745
EU-6a	(Adjustment for intra-group exposures excluded from the leverage ratio total exposure measure in accordance with Article 429 (7) of Regulation (EU) 575/2013)	-
EU-6b	(Adjustment for exposures excluded from the leverage ratio total exposure measure in accordance with Article 429 (14) of Regulation (EU) 575/2013)	-
7	Other adjustments	(139)
8	Leverage ratio total exposure measure	40,605

¹⁾ Aareal Bank Group 2017 Annual Report: chapter "Remuneration Report" in the Notes, pages 173 et seqq.

Leverage Ratio common disclosure (LRCom)

		CRR leverage ratio exposures
€mn		
	On-balance sheet exposures (excluding derivatives and SFTs)	
1	On-balance sheet items (excluding derivatives, SFTs and fiduciary assets, but including collateral)	39,851
2	(Asset amounts deducted in determining Tier 1 capital)	(37)
3	Total on-balance sheet exposures (excluding derivatives, SFTs and fiduciary assets) (sum of lines 1 and 2)	39,814
	Derivative exposures	
4	Replacement cost associated with all derivatives transactions (i.e. net of eligible cash variation margin)	155
5	Add-on amounts for PFE associated with all derivatives transactions (mark-to-market method)	444
EU-5a	Exposure determined under Original Exposure Method	_
6	Gross-up for derivatives collateral provided where deducted from the balance sheet assets pursuant to the applicable accounting framework	-
7	(Deductions of receivables assets for cash variation margin provided in derivatives transactions)	(553)
8	(Exempted CCP leg of client-cleared trade exposures)	-
9	Adjusted effective notional amount of written credit derivatives	_
10	(Adjusted effective notional offsets and add-on deductions for written credit derivatives)	-
11	Total derivatives exposures (sum of lines 4 to 10)	46
	SFT exposures	
12	Gross SFT assets (with no recognition of netting), after adjusting for transactions posted as sales	-
13	(Netted amounts of cash payables and cash receivables of gross SFT assets)	-
14	Counterparty credit risk exposure for SFT assets	-
EU-14a	Derogation for SFTs: counterparty credit risk exposure in accordance with Articles 429b (4) and 222 of Regulation (EU) 575/2013	-
15	Agent transaction exposures	-
EU-15a	(Exempted CCP leg of client-cleared SFT exposures)	-
16	Total securities financing transaction exposures (sum of lines 12 to 15a)	-
	Other off-balance sheet exposures	
17	Off-balance sheet exposures at gross notional amount	1,783
18	(Adjustments for conversion to credit equivalent amounts)	(1,038)
19	Other off-balance sheet exposures (sum of lines 17 and 18)	745
	Exempted exposures in accordance with Article 429 (7) and (14) of Regulation (EU) 575/2013 (on- and off-balance sheet)	
EU-19a	(Intragroup exposures (solo basis) exempted in accordance with Article 429 (7) of Regulation (EU) 575/2013 (on- and off-balance sheet))	-
EU-19b	Exempted exposures in accordance with Article 429 (7) and (14) of Regulation (EU) 575/2013 (on- and off-balance sheet)	-
	Capital and total exposure measure	
20	Tier 1 capital	2,600
21	Leverage ratio total exposure measure (sum of lines 3, 11, 16, 19, EU-19a and EU-19b)	40,605
	Leverage Ratio	
22	Leverage Ratio	6.40 %
	Choice on transitional arrangements and amount of derecognised fiduciary items	
EU-23	Choice on transitional arrangements for the definition of the capital measure	Transitional arrangements
EU-24	Amount of derecognised fiduciary items in accordance with Article 429 (11) of Regulation (EU) 575/2013	

The Leverage Ratio rose to 6.40%, compared to 6.26% on the 30 June 2017 disclosure date, mainly driven by a marked reduction in the total exposure measure. The key driver for this development was the decline in the property financing portfolio, attributable especially to the reduction of non-core assets as well as a high level of early loan repayments.

The following table provides a breakdown of onbalance sheet risk exposures (excluding derivatives, securities financing transactions, and exempted risk exposures).

Split-up of on-balance sheet exposures (LRSpl)

€mn EU-1 Total on-balance sheet exposures (excluding derivatives, SFTs, and exempted exposures), of which: 39,298 EU-2 Trading book exposures EU-3 Banking book exposures, of which: 39,298 EU-4 Covered bonds 321 EU-5 Exposures treated as sovereigns 11,862 EU-6 Exposures to regional governments, MDB, international organisations and PSE not treated as sovereigns 354 EU-7 429 Institutions EU-8 Secured by mortgages on immovable properties 22,898 EU-9 Retail exposures 164 EU-10 Corporate 1,219 EU-11 Exposures in default 1,136 EU-12 Other exposures (e.g. equity, securitisations, and other non-credit obligation assets) 915

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CRR leverage ratio exposures

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Aareal Bank Group