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SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 6-K

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THE SECURITIES EXCHANGE ACT OF 1934

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UBS Group AG

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UBS AG

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(Registrants' Name)

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Aeschenvorstadt 1, Basel, Switzerland

(Address of principal executive offices)

Indicate by check mark whether the registrants file or will file annual reports under cover of Form 20 F or Form 40-F.

Form 20-F x

Form 40-F o

This Form 6-K consists of the 31 December 2018 Pillar 3 report of UBS Group AG and significant regulated subsidiaries and sub-groups, which appears immediately following this page.

31 December 2018 Pillar 3 report

UBS Group and significant regulated subsidiaries and sub-groups

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Introduction and basis for preparation

Scope and location of Basel III Pillar 3 disclosures

The Basel III capital adequacy framework consists of three complementary pillars. Pillar 1 provides a framework for measuring minimum capital requirements for the credit, market, operational and non-counterparty-related risks faced by banks. Pillar 2 addresses the principles of the supervisory review process, emphasizing the need for a qualitative approach to supervising banks. Pillar 3 requires banks to publish a range of disclosures, mainly covering risk, capital, leverage, liquidity and remuneration.

This report provides Pillar 3 disclosures for UBS Group AG and UBS AG on a consolidated basis, as well as prudential key figures and regulatory information for our significant regulated subsidiaries and sub-groups. Information provided in our Annual Report 2018 or other publications may also serve to address Pillar 3 disclosure requirements. Where this is the case, a reference has been provided in this report to the UBS publication where the information can be located. These Pillar 3 disclosures are supplemented by specific additional requirements of the Swiss Financial Market Supervisory Authority (FINMA) and voluntary disclosures on our part.

As UBS is considered a systemically relevant bank (SRB) under Swiss banking law, UBS Group AG and UBS AG are required to comply with regulations based on the Basel III framework as applicable to Swiss SRBs on a consolidated basis. Capital and other regulatory information as of 31 December 2018 for UBS Group AG consolidated is provided in the “Capital management” section of our Annual Report 2018.

Capital and other regulatory information as of 31 December 2018 for UBS AG consolidated is provided in the UBS Group AG and UBS AG Annual Report 2018, and additionally, in the “KM1: Key metrics” table for UBS AG consolidated on page 110 in this report. We are also required to disclose certain regulatory information for UBS AG standalone, UBS Switzerland AG standalone and UBS Limited standalone, as well as UBS Americas Holding LLC consolidated. This information is provided in the “Significant regulated subsidiaries and sub-groups” sections of this report.

Local regulators may also require publication of Pillar 3 information at a subsidiary or sub-group level. Where applicable, these local disclosures are provided under “Holding company and significant regulated subsidiaries and sub-groups” at www.ubs.com/investors.

Refer to the overview on our external reporting approach under “Annual Reporting” at www.ubs.com/investors. Our quarterly reports are available under “Quarterly Reporting”.

Significant regulatory and disclosure requirements and changes effective in 2018

Significant BCBS and FINMA capital adequacy, liquidity and funding and related disclosure requirements

This Pillar 3 report has been prepared in accordance with FINMA Pillar 3 disclosure requirements (FINMA circular 2016 / 01 “Disclosure – banks”) issued on 16 July 2018, the underlying Basel Committee on Banking Supervision (BCBS) guidance “Revised Pillar 3 disclosure requirements” issued in January 2015, the “Frequently asked questions on the revised Pillar 3 disclosure requirements” issued in August 2016, and the “Pillar 3 disclosure requirements – consolidated and enhanced framework” issued in March 2017.

The legal entities UBS AG and UBS Switzerland AG are subject to standalone capital adequacy, liquidity and funding, and disclosure requirements defined by FINMA. This information is provided in the “Significant regulated subsidiaries and sub-groups” section of this report.

Changes to Pillar 1 requirements

Revised Basel III securitization framework

Effective 1 January 2018, we became subject to the revised Basel III securitization framework for securitization exposures in the banking book, which had an immaterial effect on our risk-weighted assets (RWA). Related changes to Pillar 3 disclosure requirements are described on the next page.

Revised methodology for structured margin lending transactions

We revised the methodology applied for structured margin lending transactions, as agreed with FINMA. This revision resulted in an increase of USD 3.3 billion in counterparty credit risk RWA in the third quarter of 2018.

Changes to presentation currency affecting Pillar 1 and Pillar 3 disclosures

In October 2018, the presentation currency of UBS Group AG’s and UBS AG’s consolidated and standalone financial statements changed from Swiss francs to US dollars. In line with these accounting changes, the presentation currency of UBS Group AG’s consolidated and UBS AG’s consolidated and standalone Pillar 3 disclosures in this report have changed from Swiss francs to US dollars. Prior periods were translated to US dollars at the respective spot rates prevailing for the relevant periods unless specified otherwise. We have restated the composition of cash collaterals in domestic currency and other currencies in “CCR5: Composition of collateral for CCR exposure” table as if the US dollar was our domestic currency for all periods.

We continue to report Pillar 1 and other regulatory submissions to FINMA and to the Swiss National Bank in Swiss francs.

→ **Refer to the “Significant accounting and financial reporting changes” section in our Annual Report 2018 for more information**

Changes to accounting affecting Pillar 1 and/or Pillar 3 disclosure requirements

Effective 1 January 2018, we adopted IFRS 9, *Financial Instruments*. The implementation of IFRS 9 resulted in a reduction of Basel III common equity tier 1 (CET1) capital as of 1 January 2018 by approximately USD 0.3 billion and an increase of RWA by approximately USD 0.7 billion.

The related FINMA guidance for the regulatory treatment of accounting provisions was issued on 16 July 2018, with an effective date of 1 January 2019. Effective from 31 December 2018, UBS opted to phase in the effects from IFRS 9 ECL on CET1 capital, if any, over a five-year transitional period.

In addition, the implementation of IFRS 9 resulted in the following structural and calculation changes to our semi-annual and annual Pillar 3 disclosures, which are also outlined in footnotes or narrative text for the relevant tables:

(a) Allowances and impairments included in “CR1: Credit quality of assets,” “CRB: Breakdown of impaired exposures by industry,” “CRB: Impaired financial instruments by geographical region,” “CRB: Breakdown of restructured exposures between impaired and non-impaired,” and provisions included in “CR6: IRB – Credit risk exposures by portfolio and PD range” as of 30 June 2018 and 31 December 2018 reflect ECL allowances and provisions related to stages 1–3. Comparative numbers as of 31 December 2017 are based on the incurred loss model of IAS 39, *Financial Instruments: Recognition and Measurement*, and are largely comparable to the IFRS 9 stage 3 allowances and provisions.

(b) The definitions of the FINMA-defined Pillar 3 credit risk exposure categories “Loans” and “Debt securities” have been updated to reflect the new IFRS balance sheet structure under IFRS 9.

(c) RWA included in “CR10: IRB (equities under the simple risk weight method)” increased primarily due to the transition effect of IFRS 9, as a result of the reclassification of equity instruments from the IAS 39 category financial assets available for sale to the IFRS 9 category fair value through profit or loss, as unrealized gains on such instruments (previously deducted from Basel III CET1 capital) were added back to the exposure at default for the purpose of the RWA calculation.

(d) The templates “LI1: Differences between accounting and regulatory scopes of consolidation and mapping of financial statement categories with regulatory risk categories,” “CRB: Breakdown of exposures by industry,” “CRB: Breakdown of exposures by geographical area” and “CRB: Breakdown of exposures by residual maturity” have been aligned with the IFRS 9-related changes to our balance sheet presentation.

Changes to Pillar 3 disclosure requirements

– In the first quarter of 2018, the “OV1: Overview of RWA” table was enhanced to adopt the revised template introduced with the second phase of revised Pillar 3 disclosure requirements to reflect changes as a result of the aforementioned revised securitization framework.

- The tables “SEC3: Securitization exposures in the banking book and associated regulatory capital requirements – bank acting as originator or as sponsor” and “SEC4: Securitization exposures in the banking book and associated regulatory capital requirements – bank acting as investor” have been modified to reflect changes in line with the revised securitization framework.
- In March 2017, the BCBS issued the “Pillar 3 disclosure requirements – consolidated and enhanced framework,” which represents the second phase of the BCBS review of the Pillar 3 disclosure framework and builds on the revisions to the Pillar 3 disclosure requirements published in January 2015. On 16 July 2018, FINMA issued a revised Circular 2016 / 01 “Disclosure – banks” including the aforementioned second phase revisions, which requires banks to gradually implement the requirements from 31 December 2018 onward.
- We either disclosed or amended the following tables and / or narratives for the first time in or alongside this report:
 - KM1: Key metrics
 - PV1: Prudential valuation adjustments
 - CC1: Composition of regulatory capital, replacing the “Composition of capital” table
 - CCyB1: Geographical distribution of credit exposures used in the countercyclical buffer
 - LIQA: Liquidity risk management
 - CCA: Main features of regulatory capital and other TLAC instruments.

Significant BCBS and FINMA requirements to be adopted in 2019 or later

Final guidance

Revised capital adequacy ordinance (CAO) and banking ordinance (BO)

The revised CAO and BO became effective from 1 January 2019, and included guidance on the treatment of bail-in bonds from other international SRBs held by UBS, amendments to gone concern requirements and the treatment of material group entities, subject to the regulatory scope of consolidation, all of which are not expected to have a material effect on UBS.

Revised FINMA circulars on credit risk and leverage ratio

On 16 July 2018, FINMA issued revised circulars mainly on:

- leverage ratio (FINMA Circular 2015 / 03 “Leverage ratio – banks”) to allow early adoption before 1 January 2020 of modified standardized approach for counterparty credit risk (SA-CCR) rules in line with the BCBS Basel III finalization of the capital framework issued in December 2017;
- credit risk (FINMA Circular 2017 / 07 “Credit risk – banks”) to incorporate frequently asked questions on the standardized approach for SA-CCR that will be effective from 1 July 2019 for banks applying SA-CCR, with early adoption permitted. In addition, other amendments related to the eligibility of short-term debt instruments as financial collateral and the recognition of unrestricted life insurance policies as guarantees, which have become effective from 1 January 2019, were also included in the same circular.

Basel III finalization and adjustments to market risk framework

In December 2017, the BCBS finalized the Basel III capital framework, which will take effect from 1 January 2022, with a five-year phase-in period for the aggregate output floor. The most significant changes include:

- placing floors on certain model inputs under the IRB approach to calculate credit risk RWA;
- requiring the use of standardized approaches for calculation of credit valuation adjustment and for operational risk RWA;
- placing an aggregate output floor on the Group RWA equal to 72.5% of the RWA calculated using a revised standardized approach; and
- revising the leverage ratio denominator (LRD) calculation and introducing a leverage ratio surcharge for global systematically important banks.

In January 2019, BCBS also issued final revisions of the market risk framework (Fundamental Review of the Trading Book (FRTB)). The revisions include adjustments to the risk sensitivity of the standardized approach, the calibration of certain elements of the framework and adjustments of the internal models approach. This revised standard comes into effect on 1 January 2022 along with the overall revised Basel III capital framework.

Regulatory interpretation is ongoing and the implementation of the Basel III capital framework and the market risk framework into national law has not yet been announced.

Pillar 3 disclosure requirements

In March 2017, the BCBS issued the “Pillar 3 disclosure requirements – consolidated and enhanced framework.”

In July 2018, FINMA issued the revised circular 2016 / 01 “Disclosure – banks”, which requires banks to gradually implement the requirements from 31 December 2018 onward. Refer to the previous page for requirements implemented as of 31 December 2018.

The following disclosure will be adopted or revised in first half of 2019, according to the applicable effective dates:

- KM2: Key metrics – TLAC requirements (at resolution group level) as of 31 March 2019
- CR1: Credit quality of assets as of 30 June 2019
- TLAC1: TLAC composition for global systemically relevant banks (G-SIBs) at resolution group level as of 30 June 2019
- TLAC2: Material subgroup entity – creditor ranking at legal entity level as of 30 June 2019
- TLAC3: Resolution entity – creditor ranking at legal entity level as of 30 June 2019
- IRRBBA: Interest rate risk in the banking book (IRRBB) – risk management objective and policies – qualitative requirements as of 30 June 2019
- IRRBBA1: IRRBB – risk management objective and policies – quantitative requirements as of 30 June 2019
- IRRBB1: Quantitative information on IRRBB as of 30 June 2019

In December 2018, the BCBS published its updated Pillar 3 disclosure requirements, completing revisions to the disclosure framework started earlier. This revision reflects the final Basel III standards issued in December 2017, and sets out new disclosure requirements on asset encumbrance and, if required by national supervisors at the jurisdictional level, on capital distribution constraints. The implementation deadline for the disclosure requirements related to Basel III is 1 January 2022. The effective date for the disclosure requirements for asset encumbrance, capital distribution constraints and the prudential treatment of problem assets is the end of 2020.

Significant BCBS and FINMA consultation papers

Leverage ratio treatment of client cleared derivatives

In October 2018, the BCBS issued a consultation paper to seek public feedback by mid-January 2019 on whether or not the leverage ratio’s treatment of client cleared derivatives under the Basel III finalization of the capital framework issued in December 2017 should be amended to allow cash and non-cash initial margin received from a client to offset the potential future exposure, or to align existing treatment with the standardized approach for measuring counterparty credit risk exposures. In line with the current exposure measure applied in the current leverage ratio calculation, the leverage ratio’s treatment under the Basel III finalization of the capital framework issued in December 2017 only allows variation

margin in the form of cash to offset replacement cost.

Revisions to leverage ratio disclosure requirements

In response to particular concerns regarding "window-dressing", BCBS issued a consultation paper in December 2018 on mandating the additional disclosure of leverage ratio exposure amounts of securities financing transactions, of derivative replacement costs and of central bank reserves, all to be calculated using daily averages over the reporting quarter. Comments on this consultation paper are due by mid-March 2019.

Frequency and comparability of Pillar 3 disclosures

FINMA has specified the reporting frequency for each disclosure, as outlined in the table below. We generally provide quantitative comparative information as of 31 December 2017 for all disclosures, except reconciliations. Depending on the FINMA-specified disclosure frequency, we provide additional quantitative prior-period information:

- For quarterly disclosures on movements related to RWA for credit risk, counterparty credit risk and market risk, we provide additional comparative information for the third, second and first quarters of 2018.
- For the overview of RWA, we provide additional comparative information as of 30 September 2018, 30 June 2018 and 31 March 2018.
- For all other quarterly disclosures, we provide additional comparative information as of 30 September 2018 only.
- For semiannual disclosures, we provide additional comparative information as of 30 June 2018.

Where required, movement commentary is aligned with the corresponding disclosure frequency required by FINMA and always refers to the latest comparative period. Throughout this report, signposts are displayed at the beginning of a section, table or chart – **Annual** | **Semiannual** | **Quarterly** | – indicating whether the disclosure is provided quarterly, semiannually or annually. A triangle symbol **▶** **p** **p** – indicates the end of the signpost.

→ **Refer to our first, second and third quarter Pillar 3 reports under “Pillar 3 disclosures” at www.ubs.com/investors for more information on previously published quarterly movement commentary**

→ **Refer to our second quarter Pillar 3 report under “Pillar 3 disclosures” at www.ubs.com/investors for more information on previously published semiannual movement commentary**

Annual disclosure requirements

| | | | |
|-----|-------------------------------|------|--|
| OVA | Bank risk management approach | CR9 | IRB – backtesting of probability of default (PD) per portfolio |
| LI1 | | CCRA | |

| | | | |
|--------|---|--------------------------------|---|
| | Differences between accounting and regulatory scopes of consolidation and mapping of financial statement categories with regulatory risk categories | | Qualitative disclosure related to counterparty credit risk management |
| LI2 | Main sources of differences between regulatory exposure amounts and carrying values in financial statements (under the regulatory scope of consolidation) | SECA | Qualitative disclosure requirements related to securitization exposures |
| LIA | Explanations of differences between accounting and regulatory exposure amounts (under the regulatory scope of consolidation) | MRA | Qualitative disclosure requirements related to market risk |
| PV1 | Prudent valuation adjustments (PVA) | MRB | Qualitative disclosures for banks using the internal models approach (IMA) |
| CRA | General information about credit risk | IRRBBA, IRRBBA1 ¹ , | Interest rate risk in the banking book (IRRBB) risk management objective and policies – qualitative and quantitative information ¹ |
| CRB | Additional disclosures related to the credit quality of assets | IRRBB1 ¹ | Quantitative information on IRRBB ¹ |
| CRC | Qualitative disclosure requirements related to credit risk mitigation | ORA | Operational risk |
| CRD | Qualitative disclosures on banks' use of external credit ratings under the standardized approach for credit risk | LIQA | Liquidity risk management |
| CRE | Qualitative disclosures related to internal ratings-based (IRB) models | N/A | Remuneration |
| G-SIB1 | Disclosure of G-SIB indicators | | |

Semiannual disclosure requirements

| | | | |
|------|---|-------------------|---|
| CR1 | Credit quality of assets | CCyB1 | Geographical distribution of credit exposures used in the countercyclical buffer |
| CR2 | Changes in stock of defaulted loans and debt securities | CCR4 | IRB – CCR exposures by portfolio and PD scale |
| CR3 | Credit risk mitigation techniques – overview | CCR5 | Composition of collateral for CCR exposure |
| CR4 | Standardized approach – credit risk exposure and credit risk mitigation (CRM) effects | CCR6 | Credit derivatives exposures |
| CR5 | Standardized approach – exposures by asset classes and risk weights | CCR8 ¹ | Exposures to central counterparties |
| CR6 | IRB – credit risk exposures by portfolio and PD range | SEC1 | Securitization exposures in the banking book |
| CR7 | IRB – effect on risk-weighted assets (RWA) of credit derivatives used as CRM techniques | SEC2 | Securitization exposures in the trading book |
| CR10 | IRB (equities under the simple risk weight method) | SEC3 | Securitization exposures in the banking book and associated regulatory capital requirements – bank acting as originator or as sponsor |
| CCR1 | Analysis of counterparty credit risk (CCR) exposure by approach | SEC4 | Securitization exposures in the banking book and associated regulatory capital requirements – bank acting as investor |
| CCR2 | Credit valuation adjustment (CVA) capital charge | MR1 | Market risk under standardized approach |
| CCR3 | Standardized approach – CCR exposures by regulatory portfolio and risk weights | MR3 | IMA values for trading portfolios |
| CC1 | Composition of regulatory capital | MR4 | Comparison of value-at-risk (VaR) estimates with gains / losses |
| CC2 | Reconciliation of accounting balance sheet to balance sheet under the regulatory scope of consolidation (Reconciliation of regulatory capital to balance sheet) | CCA | Main features of regulatory capital instruments and other TLAC-eligible instruments |

| | | | |
|--|---|--------------------|---|
| TLAC1 ¹ | TLAC composition for G-SIBs (at resolution group level) | TLAC2 ¹ | Material sub-group entity – creditor ranking at legal entity level ¹ |
| TLAC3 ¹ | Resolution entity – creditor ranking at legal entity level | MRC ¹ | The structure of desks for banks using the IMA |
| MR2 ¹ | Market risk IMA per risk type | | |
| Quarterly disclosure requirements | | | |
| KM1 | Key metrics (at consolidated group level) | LR1 | Summary comparison of accounting assets vs leverage ratio exposure measure |
| KM2 ¹ | Key metrics – TLAC requirements at resolution group level | LR2 | Leverage ratio common disclosure |
| OV1 | Overview of RWA | N/A | Leverage ratio |
| CR8 | RWA flow statements of credit risk exposures under IRB | LIQ1 | Liquidity coverage ratio |
| CCR7 | RWA flow statements of CCR exposures under the internal model method (IMM) and VaR | N/A | Eligible capital |
| MR2 | RWA flow statements of market risk exposures under an IMA | MR3 ¹ | RWA flow statements of market risk exposures under IMA |

1 Disclosure is not required as of 31 December 2018.

Format of Pillar 3 disclosures

As defined by FINMA, certain Pillar 3 disclosures follow a fixed format, whereas other disclosures are flexible and may be modified to a certain degree to present the most relevant information. Pillar 3 requirements are presented under the relevant FINMA table / template reference (e.g., OVA, OV1, LI1, etc.). Pillar 3 disclosures may also include row labeling (1, 2, 3, etc.) as prescribed by FINMA. Naming conventions used in our Pillar 3 disclosures are based on the FINMA guidance and may not reflect UBS naming conventions.

The FINMA-defined asset classes used within this Pillar 3 report are as follows:

- Central governments and central banks, consisting of exposures relating to governments at the level of the nation state and their central banks. The European Union is also treated as a central government.
- Banks and securities dealers, consisting of exposures to legal entities holding a banking license and securities firms subject to adequate supervisory and regulatory arrangements, including risk-based capital requirements. Securities firms can only be assigned to this asset class if they are subject to a supervision equivalent to that of banks.
- Public sector entities, multilateral development banks, consisting of exposures to institutions established on the basis of public law in different forms, such as administrative entities or public companies as well as regional governments, the BCBS, the International Monetary Fund, the European Central Bank and eligible multilateral development banks recognized by FINMA.
- Corporates: specialized lending, consisting of exposures relating to income-producing real estate and high-volatility commercial real estate, commodities finance, project finance and object finance.
- Corporates: other lending, consisting of all exposures to corporates that are not specialized lending. This asset class includes private commercial entities such as corporations, partnerships or proprietorships, insurance companies and funds (including managed funds).
- Retail: residential mortgages, consisting of residential mortgages, regardless of exposure size, if the owner occupies or rents out the mortgaged property.
- Retail: qualifying revolving retail exposures, consisting of unsecured and revolving credits to individuals that exhibit appropriate loss characteristics relating to credit card relationships at UBS.
- Retail: other, consisting primarily of Lombard lending that represents loans made against the pledge of eligible marketable securities or cash, as well as exposures to small businesses, private clients and other retail customers without mortgage financing.
- Equity: consisting of instruments that have no stated or predetermined maturity and represents a residual interest in the net assets of an entity.

– Other assets: consisting of the remainder of exposures to which UBS is exposed, mainly non-counterparty-related assets.

Governance over Pillar 3 disclosures

The Board of Directors (BoD) and senior management are responsible for establishing and maintaining an effective internal control structure over the disclosure of financial information, including Pillar 3 disclosures. In line with BCBS and FINMA requirements, we have a BoD-approved Pillar 3 disclosure governance policy in place, which includes information on the key internal controls and procedures designed to govern the preparation, review and sign-off of Pillar 3 disclosures. This Pillar 3 report has been verified and approved in line with this policy.

Risk management framework

Our Group-wide risk management framework is applied across all risk types. The table below presents an overview of risk management disclosures that are provided separately in our Annual Report 2018.

Annual I

OVA – Bank risk management approach

| Pillar 3 disclosure requirement | Annual Report 2018 section | Disclosure | Annual Report 2018 page number |
|--|--|--|---------------------------------------|
| Business model and risk profile | Our strategy, business model and environment | – Risk factors | 50–61 |
| | | – Current market climate and industry trends | 29–31 |
| | Risk, treasury and capital management | – Overview of risks arising from our business activities | 119–120 |
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Our approach to measuring risk exposure and risk-weighted assets

Depending on the intended purpose, the measurement of risk exposure that we apply may differ. Exposures may be measured for financial accounting purposes under International Financial Reporting Standards (IFRS), for deriving our regulatory capital requirement or for internal risk management and control purposes. Our Pillar 3 disclosures are generally based on measures of risk exposure used to derive the regulatory capital required under Pillar 1. Our RWA are calculated according to the BCBS Basel III framework, as implemented by the Swiss Capital Adequacy Ordinance issued by the Swiss Federal Council and by the associated circulars issued by the FINMA.

The table below provides a summary of the approaches we use for the main risk categories to determine the regulatory risk exposure and RWA. Our RWA are calculated according to the BCBS Basel III framework, as implemented by the Swiss Capital Adequacy Ordinance issued by the Swiss Federal Council.

I. Credit risk

| | | | |
|-------------------------------|--|--|--|
| Credit risk | Credit risk is the risk of a loss resulting from the failure of a counterparty to meet its contractual obligations toward UBS arising from transactions such as loans, debt securities held in our banking book and undrawn credit facilities. | Exposure at default (EAD) is the amount we expect a counterparty to owe us at the time of a possible default. For banking products, the EAD generally equals the IFRS carrying value as of the reporting date. The EAD is expected to remain constant over the 12-month period. For loan commitments, a credit conversion factor is applied to model expected future drawdowns over the 12-month period. | We apply two approaches to measure credit risk RWA: <u>Advanced internal ratings-based (A-IRB) approach</u> , applied for the majority of our businesses. Counterparty risk weights are determined by reference to internal probability of default and loss given default estimates. <u>Standardized approach (SA)</u> , generally based on external ratings for a subset of our credit portfolio where internal measures are not available. |
| Non-counterparty-related risk | Refer to section 4 Credit risk | Non-counterparty-related risk (NCPA) denotes the risk of a loss arising from | The IFRS carrying value is the basis for measuring NCPA risk RWA by applying |

changes in value or from exposure. liquidation of assets not linked to any counterparty, for example, premises, equipment and software, and deferred tax assets on temporary differences.

prescribed regulatory risk weights to the NCPA exposure.

Refer to section 2
Regulatory exposures and risk-weighted assets.

Equity positions in the banking book

Risk from equity positions in the banking book refers to the investment risk arising from equity positions and other relevant investments or instruments held in our banking book.

The IFRS carrying value is the basis for measuring risk exposure for equity securities held in our banking book, but reflecting a net position.

We measure the RWA from equity positions in the banking book by applying prescribed regulatory risk weights to our listed and unlisted equity exposures.

Refer to section 4 Credit risk

II. Counterparty credit risk

| | | | |
|--------------------------|---|--|---|
| Counterparty credit risk | <p>Counterparty credit risk is the risk that a counterparty for over-the-counter (OTC) derivatives, exchange-traded derivatives (ETD) or securities financing transactions (SFTs) will default before the final settlement of a transaction and cause a loss to the bank if the transaction has a positive economic value at the time of default.</p> <p>Refer to section 5 Counterparty credit risk.</p> | <p>We primarily use internal models to measure counterparty credit risk exposures to third parties. All internal models are approved by FINMA.</p> <p>For OTC derivatives and ETD we apply the effective expected positive exposure (EEPE) and stressed expected positive exposure (stressed EPE) as defined in the Basel III framework.</p> <p>For SFTs we apply the close-out period approach.</p> <p>In certain instances where risk models are not available:</p> <p>Exposure on OTC derivatives and ETD is calculated considering the net positive replacement values and potential future exposure.</p> <p>Exposure for SFTs is based on the IFRS carrying value, net of collateral mitigation. The IFRS carrying value is the basis for measuring settlement risk exposure.</p> | <p>We apply two approaches to measure counterparty credit risk RWA:</p> <p>Advanced internal ratings-based (A-IRB) approach, applied for the majority of our businesses. Counterparty risk weights are determined by reference to internal counterparty ratings and loss given default estimates.</p> <p>Standardized approach (SA), generally based on external ratings for a subset of our credit portfolio, where internal measures are not available.</p> <p>We apply an additional credit valuation adjustment (CVA) capital charge to hold capital against the risk of mark-to-market losses associated with the deterioration of counterparty credit quality.</p> <p>We measure settlement risk RWA through the application of prescribed regulatory risk weights to the settlement risk exposure.</p> |
| Settlement risk | <p>Settlement risk is the risk of loss resulting from transactions that involve exchange of value (e.g., security versus cash) where we</p> | <p>The IFRS carrying value is the basis for measuring settlement risk exposure.</p> | <p>We measure settlement risk RWA through the application of prescribed regulatory risk weights to the settlement risk exposure.</p> |

must deliver without first being able to determine with certainty that we will receive the countervalue.

Refer to section 2
Regulatory exposures and risk-weighted assets.

III. Securitization exposures in the banking book

Securitization exposures in the banking book

Exposures arising from traditional and synthetic securitizations held in our banking book.

Refer to section 7
Securitizations.

The IFRS carrying value after eligible regulatory credit risk mitigation and credit conversion factor is the basis for measuring securitization exposure.

We apply the following approaches to measure securitization exposure RWA:

~~Internal ratings-based approach (SEC-IRBA)~~, considering the advanced IRB risk weights, if the securitized pool largely consists of IRB positions and internal ratings are available.

~~External ratings-based approach (SEC-ERBA)~~, in case the IRB approach cannot be applied, risk weights are applied based on external ratings, provided that we are able to demonstrate our expertise in critically reviewing and challenging the external ratings.

~~Standardized approach (SEC-SA) or 1,250% risk weight factor~~, in case none of the aforementioned approaches can be applied, we would apply the standardized approach where the delinquency status of a

significant portion of the underlying exposure can be determined or a risk weight of 1,250%.

For re-securitization exposures we apply either the standardized approach or a risk weight factor of 1,250%.

IV. Market risk

| | | |
|------------------------------------|---|---|
| Value-at-risk (VaR) | <p>VaR is a statistical measure of market risk, representing the market risk losses that could potentially be realized over a set time horizon (holding period) at an established level of confidence. For regulatory VaR, the holding period is 10 days and the confidence level is 99%.</p> | <p>The VaR component of market risk RWA is calculated by taking the maximum of the period-end VaR and the product of the average VaR for the 60 trading days immediately preceding the period end and a VaR multiplier. The quantity is then multiplied by a risk weight factor of 1,250% to determine RWA. The VaR multiplier is dependent on the number of VaR backtesting exceptions within the most recent 250-business-day window.</p> |
| Stressed VaR (SVaR) | <p>Refer to section 8 Market risk. SVaR is a 10-day 99% VaR measure that is estimated with model parameters that are calibrated to historical data covering a one-year period of significant financial stress relevant to the firm's current portfolio.</p> | <p>The derivation of SVaR RWA is similar to the one explained above for VaR. Unlike VaR, SVaR is computed weekly, and as a result the average SVaR is computed over the most recent 12 observations.</p> |
| Add-on for risks-not-in-VaR (RniV) | <p>Refer to section 8 Market risk. Potential risks that are not fully captured by our VaR model are referred to as RniV. We have a framework to identify and quantify these potential risks and underpin them with capital.</p> | <p>Our RniV framework is used to derive the RniV-based component of the market risk RWA, which is approved by FINMA. Starting in the second quarter of 2018, RniV and RWA resulting from RniV are recalibrated on a monthly basis.</p> |

| | | |
|---|---|---|
| | <p>Refer to section 8 Market risk.</p> | <p>As the RWA from RniV are add-ons, they do not reflect any diversification benefits across risks capitalized through VaR and SVaR.</p> |
| <p>Incremental risk charge (IRC)</p> | <p>The IRC represents an estimate of the default and rating migration risk of all trading book positions with issuer risk, except for equity products and securitization exposures, measured over a one-year time horizon at a 99.9% confidence level.</p> | <p>The IRC is calculated weekly, and the results are used to derive the IRC-based component of the market risk RWA. The derivation is similar to that for VaR- and SVaR-based RWA, but without a VaR multiplier.</p> |
| <p>Comprehensive risk measure (CRM)</p> | <p>Refer to section 8 Market risk.</p> <p>The CRM is an estimate of the default and complex price risk, including the convexity and cross-convexity of the CRM portfolio across credit spread, correlation and recovery, measured over a one-year time horizon at a 99.9% confidence level.</p> | <p>The CRM is calculated weekly, and the results are used to derive the CRM-based component of the market risk RWA. The calculation is subject to a floor equal to 8% of the equivalent capital charge under the specific risk measure (SRM) for the correlation trading portfolio.</p> |
| | <p>Refer to section 8 Market risk.</p> | |

| | | | |
|---|--|--|---|
| <p>Securitization / re-securitization in the trading book</p> | <p>Risk arising from traditional and synthetic securitizations held in our trading book.</p> | <p>The exposure is equal to the fair value of the net long or short securitization position.</p> | <p>We measure trading book securitization RWA using two approaches: <u><i>Ratings-based approach</i></u>, applying risk weights based on external ratings. <u><i>Supervisory formula approach</i></u>, considering the A-IRB risk weights for certain exposures where external ratings are not available.</p> |
| | <p>Refer to section 7 Securitized and section 7 Market risk.</p> | | |

V. Operational risk

| | | |
|-------------------------|--|--|
| <p>Operational risk</p> | <p>Operational risk is the risk of loss resulting from inadequate or failed internal processes, people and systems or from external events, including cyber risk. Operational risk includes, among others, legal risk, conduct risk and compliance risk.</p> | <p>We use the advanced measurement approach to measure operational risk RWA in accordance with FINMA requirements.</p> |
| | <p>Refer to section 9 Operational risk.</p> | |

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Section 1 Key metrics**Key metrics of the fourth quarter of 2018**

Quarterly | The table below is based on Basel Committee on Banking Supervision (BCBS) Basel III phase-in rules. During the fourth quarter of 2018, common equity tier 1 (CET1) capital decreased by USD 0.7 billion to USD 34.1 billion, mainly reflecting the accruals of capital returns to shareholders. Risk-weighted assets (RWA) increased by USD 6.7 billion to USD 263.7 billion, mainly due to increases of USD 8.3 billion in market risk RWA and USD 2.7 billion in credit risk RWA, partly offset by decreases of USD 3.4 billion in operational risk RWA and USD 1.1 billion in counterparty credit risk RWA. Leverage ratio exposure remained largely stable as in previous quarters.

Effective from 31 December 2018, UBS opted to phase in the effects from IFRS 9 expected credit loss (ECL) on CET1 capital, if any, over a five-year transitional period. This conclusion did not have a material effect on our CET1 capital as of 31 December 2018.^p

Quarterly |**KM1: Key metrics***USD million, except where indicated*

| | | 31.12.18 | 30.9.18 | 30.6.18 | 31.3.18 | 31.12.17 |
|---|---|---------------------------|----------------|----------------|----------------|----------------------|
| Available capital (amounts)¹ | | | | | | |
| 1 | Common equity tier 1 (CET1) | 34,119² | 34,816 | 34,116 | 34,774 | 36,412 |
| 1a | Fully loaded ECL accounting model | 34,071 | 34,816 | 34,116 | 34,774 | |
| 2 | Tier 1 | 46,279 | 45,972 | 45,353 | 46,180 | 44,562 |
| 2a | Fully loaded ECL accounting model Tier 1 | 46,231 | 45,972 | 45,353 | 46,180 | |
| 3 | Total capital | 52,981 | 52,637 | 52,450 | 54,972 | 53,535 |
| 3a | Fully loaded ECL accounting model total capital | 52,933 | 52,637 | 52,450 | 54,972 | |
| Risk-weighted assets (amounts) | | | | | | |
| 4 | Total risk-weighted assets (RWA) | 263,747 | 257,041 | 254,603 | 266,169 | 244,559 ¹ |
| 4a | Total risk-weighted assets (pre-floor) | 263,747 | 257,041 | 254,603 | 266,169 | 244,559 |
| Risk-based capital ratios as a percentage of RWA¹ | | | | | | |
| 5 | | 12.94 | 13.55 | 13.40 | 13.06 | 14.89 |

| | | | | | | |
|---|---|----------------|---------|---------|---------|----------------------|
| 5a | Common equity tier 1 ratio (%) Fully loaded ECL accounting model Common Equity Tier 1 (%) | 12.92 | 13.55 | 13.40 | 13.06 | |
| 6 | Tier 1 ratio (%) Fully loaded ECL accounting model Tier 1 ratio (%) | 17.55 | 17.89 | 17.81 | 17.35 | 18.22 |
| 6a | Tier 1 ratio (%) Fully loaded ECL accounting model Tier 1 ratio (%) | 17.53 | 17.89 | 17.81 | 17.35 | |
| 7 | Total capital ratio (%) Fully loaded ECL accounting model total capital ratio (%) | 20.09 | 20.48 | 20.60 | 20.65 | 21.89 |
| 7a | Total capital ratio (%) Fully loaded ECL accounting model total capital ratio (%) | 20.07 | 20.48 | 20.60 | 20.65 | |
| Additional CET1 buffer requirements as a percentage of RWA | | | | | | |
| 8 | Capital conservation buffer requirement (2.5% from 2019) (%) | 1.88 | 1.88 | 1.88 | 1.88 | 1.25 |
| 9 | Countercyclical buffer requirement (%) | 0.08 | 0.05 | 0.06 | 0.03 | 0.02 |
| 9a | Additional countercyclical buffer for Swiss mortgage loans (%) | 0.21 | 0.21 | 0.20 | 0.19 | 0.20 |
| 10 | Bank G-SIB and/or D-SIB additional requirements (%) | 0.75 | 0.75 | 0.75 | 0.75 | 0.50 |
| 11 | Total of bank CET1 specific buffer requirements (%) | 2.71 | 2.68 | 2.68 | 2.65 | 1.77 |
| 12 | CET1 available after meeting the bank's minimum capital requirements (%) ¹ | 8.44 | 9.05 | 8.90 | 8.56 | 10.39 |
| Basel III leverage ratio | | | | | | |
| 13 | Total Basel III leverage ratio exposure measure | 904,598 | 915,066 | 910,383 | 925,651 | 910,591 ¹ |
| 14 | Basel III leverage ratio (%) ¹ | 5.12 | 5.02 | 4.98 | 4.99 | 4.89 |
| 14a | Fully loaded ECL accounting model Basel III leverage ratio (%) ¹ | 5.11 | 5.02 | 4.98 | 4.99 | |
| Liquidity coverage ratio | | | | | | |

| | | | | | | |
|----|------------------------|----------------|---------|---------|---------|---------|
| 15 | Total HQLA | 173,389 | 176,594 | 183,202 | 192,864 | 185,373 |
| 16 | Total net cash outflow | 127,352 | 130,750 | 127,324 | 141,910 | 129,566 |
| 17 | LCR ratio (%) | 136 | 135 | 144 | 136 | 143 |

1 Based on BCBS Basel III phase-in rules. 2 As of 31 December 2018, IFRS 9 expected credit loss (ECL) effects are considered on a phased-in basis in accordance with the FINMA guidance.

P

Section 2 Regulatory exposures and risk-weighted assets

RWA development in the fourth quarter of 2018

Quarterly | The table below provides an overview of risk-weighted assets (RWA) and the related minimum capital requirement by risk type. During the fourth quarter of 2018, RWA increased by USD 6.7 billion to USD 263.7 billion, mainly due to increases of USD 8.3 billion in market risk RWA and USD 2.7 billion in credit risk RWA, partly offset by decreases of USD 3.4 billion in operational risk RWA and USD 1.1 billion in counterparty credit risk RWA. Information on movements in RWA over the fourth quarter of 2018 is provided on pages 54–55 of our fourth quarter 2018 report and in the respective sections of this report. More information on capital management and RWA, including detail on movements in RWA over 2018, is provided on pages 194–208 of our Annual Report 2018.^p

Quarterly |

OV1: Overview of RWA

| USD million | 31.12.18 | 30.9.18 | RWA 30.6.18 | 31.3.18 | 31.12.17 ¹ | Minimum capital requirements ² 31.12.18 |
|---|----------------|----------------|----------------|----------------|-----------------------|--|
| Credit risk (excluding counterparty credit risk) | 112,991 | 110,269 | 109,265 | 106,115 | 100,204 | 9,039 |
| 1 of which: | | | | | | |
| 2 standardized approach (SA) ³ | 25,972 | 24,592 | 24,309 | 25,128 | 24,607 | 2,078 |
| 3 of which: | | | | | | |
| 4 foundation internal ratings-based (F-IRB) approach | | | | | | |
| 5 of which: | | | | | | |
| 6 supervisory slotting approach | | | | | | |
| 7 of which: advanced internal ratings-based (A-IRB) approach | 87,019 | 85,677 | 84,956 | 80,988 | 75,597 | 6,962 |
| Counterparty credit risk⁴ | 34,282 | 35,394 | 33,114 | 33,837 | 31,062 | 2,743 |
| 8 of which: SA for counterparty credit risk (SA-CCR) ⁵ | 5,415 | 5,690 | 6,312 | 6,381 | 5,719 | 433 |
| 9 of which: internal model method (IMM) | 17,624 | 18,366 | 18,548 | 19,464 | 17,720 | 1,410 |

| | | | | | | | |
|----|--|---------------|---------------|---------------|---------------|--------------------------|--------------|
| 8a | <i>of which:</i> value-at-risk (VaR) | 5,036 | 4,863 | 4,458 | 4,498 | 4,102 | 403 |
| 9 | <i>of which: other</i> CCR | 6,207 | 6,475 | 3,796 | 3,494 | 3,520 | 497 |
| 10 | Credit valuation adjustment (CVA) | 2,816 | 2,797 | 3,496 | 3,419 | 3,164 | 225 |
| 11 | Equity positions under the simple risk weight approach⁶ | 3,658 | 3,601 | 3,676 | 3,554 | 2,429 | 293 |
| 12 | Equity investments in funds – look-through approach⁷ | | | | | | |
| 13 | Equity investments in funds – mandate-based approach⁷ | | | | | | |
| 14 | Equity investments in funds – fall-back approach⁷ | | | | | | |
| 15 | Settlement risk Securitization | 375 | 322 | 532 | 492 | 379 | 30 |
| 16 | exposures in banking book | 709 | 1,240 | 1,275 | 1,196 | 1,739⁸ | 57 |
| 17 | <i>of which</i> securitization internal ratings-based approach (SEC-IRBA) | | | | | | |
| 18 | <i>of which</i> securitization external ratings-based approach (SEC-ERBA) including internal assessment approach (IAA) | 701 | 1,240 | 1,274 | 1,114 | | 56 |
| 19 | <i>of which</i> securitization standardized approach (SEC-SA) | 8 | 0 | 1 | 83 | | 1 |
| 20 | Market Risk | 19,992 | 11,645 | 12,500 | 23,492 | 12,598 | 1,599 |
| 21 | <i>of which:</i> standardized | 452 | 333 | 364 | 421 | 410 | 36 |

| | | | | | | | |
|----|--|----------------|----------------|----------------|----------------|----------------|---------------|
| | <i>approach (SA)</i> | | | | | | |
| | <i>of which: internal</i> | | | | | | |
| 22 | model approaches (IMM) | 19,541 | 11,313 | 12,136 | 23,072 | 12,188 | 1,563 |
| | Capital charge for switch | | | | | | |
| 23 | between trading book and banking book | | | | | | |
| 24 | Operational risk | 77,558 | 80,931 | 80,124 | 83,308 | 81,476 | 6,205 |
| | Amounts below thresholds for deduction (250% risk weight)⁹ | | | | | | |
| 25 | | 11,365 | 10,842 | 10,621 | 10,755 | 11,508 | 909 |
| 26 | Floor adjustment¹⁰ | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | Total | 263,747 | 257,041 | 254,603 | 266,169 | 244,559 | 21,100 |

1 Based on phase-in rules 2 Calculated based on 8% of RWA. 3 Includes non-counterparty-related risk not subject to the threshold deduction treatment (31 December 2018: RWA USD 9,514 million; 30 September 2018: RWA USD 9,382 million; 30 June 2018: RWA USD 9,346 million; 31 March 2018: RWA USD 9,456 million; 31 December 2017: RWA USD 9,180 million). Non-counterparty-related risk (31 December 2018: RWA USD 8,782 million; 30 September 2018: RWA USD 8,800 million; 30 June 2018: RWA USD 8,601 million; 31 March 2018: RWA USD 8,784 million; 31 December 2017: RWA USD 9,551 million), which is subject to the threshold treatment, is reported in line 25 "Amounts below thresholds for deduction (250% risk weight)." 4 Excludes settlement risk, which is separately reported in line 15 "Settlement risk." Includes RWA with central counterparties. New regulation for the calculation of RWA for exposure to central counterparties will be implemented by 1 January 2020. The split between the subcomponents of counterparty credit risk refers to the calculation of the exposure measure. 5 Calculated in accordance with the current exposure method (CEM), until SA-CCR is implemented by 1 January 2020. 6 Includes investments in funds. Items subject to threshold deduction treatments that do not exceed their respective threshold are risk weighted at 250% (31 December 2018: RWA USD 2,583 million; 30 September 2018: RWA USD 2,041 million; 30 June 2018: RWA USD 2,020 million; 31 March 2018: RWA USD 1,971 million; 31 December 2017: RWA USD 1,957 million) and are separately included in line 25 "Amounts below thresholds for deduction (250% risk weight)." 7 New regulation for the calculation of RWA for investments in funds will be implemented by 1 January 2020. 8 Calculated on the basis of the former securitization rules applicable until 31 December 2017. 9 Includes items subject to threshold deduction treatments that do not exceed their respective threshold and risk weighted at 250%. Items subject to threshold deduction treatments are significant investments in common shares of non-consolidated financial institutions (banks, insurance and other financial entities) and deferred tax assets arising from temporary differences, both of which are measured against their respective threshold. 10 No floor effect, as 80% of our Basel I RWA including the RWA equivalent of the Basel I capital deductions do not exceed our Basel III RWA including the RWA equivalent of the Basel III capital deductions. For the status of the finalization of the Basel III capital framework, refer to the "Regulatory and legal developments" section of our Annual Report 2018, available under "Annual reporting" at www.ubs.com/investors, which outlines how the proposed floor calculation would differ in significant aspects from the current approach.

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The table below is aligned with the principles applied in “OV1: Overview of RWA,” and presents the net exposure at default (EAD) and RWA by risk type and FINMA-defined asset class, which forms the basis for the calculation of RWA. These exposures are then grouped into the advanced internal ratings-based (A-IRB) / model-based approaches and standardized approach. For credit risk, this defines the method used to derive the risk weight factors, through either internal ratings (A-IRB) or external ratings (standardized approach). The split between A-IRB / model-based approaches and standardized approach for counterparty credit risk refers to the exposure measure, whereas the split in templates CCR3 and CCR4 refers to the risk weighting approach. Market and operational risk RWA are derived using model calculations and are therefore included in the model-based approach columns.

The table provides references to sections in this report containing more information on the specific topics.

Regulatory exposures and risk-weighted assets

| 31.12.18 | A-IRB / model-based approaches | | | Standardized approaches ² | | | Total |
|---|--------------------------------|---------------|----------------------------|--------------------------------------|---------------|----------------------------|----------------|
| | Net EAD | RWA | Section or table reference | Net EAD | RWA | Section or table reference | |
| <i>USD million</i> | | | | | | | |
| Credit risk (excluding counterparty credit risk) | 533,587 | 87,019 | 4 | 56,467 | 25,972 | 4 | 590,054 |
| Central governments and central banks | 139,632 | 2,537 | CR6, CR7 | 17,854 | 748 | CR4, CR5 | 157,485 |
| Banks and securities dealers | 15,454 | 5,272 | CR6, CR7 | 7,456 | 1,842 | CR4, CR5 | 22,910 |
| Public-sector entities, multilateral development banks | 8,093 | 769 | CR6, CR7 | 1,232 | 349 | CR4, CR5 | 9,324 |
| Corporates: specialized lending | 22,858 | 12,156 | CR6, CR7 | | | CR4, CR5 | 22,858 |
| Corporates: other lending | 60,639 | 30,588 | CR6, CR7 | 6,467 | 5,010 | CR4, CR5 | 67,106 |
| Central counterparties | | | | 284 | 27 | CR4, CR5 | 284 |
| Retail | 286,912 | 35,697 | CR6, CR7 | 12,650 | 8,481 | CR4, CR5 | 299,562 |
| <i>Residential mortgages</i> | <i>142,413</i> | <i>26,696</i> | | <i>6,685</i> | <i>2,884</i> | | <i>149,098</i> |
| <i>Qualifying revolving retail exposures (QRRE)</i> | <i>1,772</i> | <i>624</i> | | | | | <i>1,772</i> |
| <i>Other retail¹</i> | <i>142,726</i> | <i>8,377</i> | | <i>5,966</i> | <i>5,597</i> | | <i>148,692</i> |
| Non-counterparty-related risk | | | | 10,524 | 9,514 | CR4, CR5 | 10,524 |
| <i>Property, equipment and software</i> | | | | <i>9,305</i> | <i>9,305</i> | | <i>9,305</i> |
| <i>Other</i> | | | | <i>1,219</i> | <i>209</i> | | <i>1,219</i> |

| | | | | | | | |
|--|----------------|----------------|----------------|----------------|---------------|-------------|----------------|
| Counterparty credit risk² | 83,202 | 22,660 | 5 | 85,179 | 11,622 | 5 | 168,381 |
| Central governments and central banks | 6,068 | 693 | CCR3, CCR4 | 2,997 | 353 | CCR3, CCR4 | 9,065 |
| Banks and securities dealers | 16,843 | 5,118 | CCR3, CCR4 | 3,166 | 955 | CCR3, CCR4 | 20,009 |
| Public-sector entities, multilateral development banks | 1,988 | 249 | CCR3, CCR4 | 670 | 39 | CCR3, CCR4 | 2,658 |
| Corporates incl. specialized lending | 41,673 | 16,253 | CCR3, CCR4 | 16,850 | 7,849 | CCR3, CCR4 | 58,522 |
| Central counterparties | 16,630 | 346 | | 51,139 | 1,795 | | 67,769 |
| Retail | | | | 10,358 | 631 | CCR3, CCR4 | 10,358 |
| Credit valuation adjustment (CVA) | | 1,479 | 5, CCR2 | | 1,338 | 5, CCR2 | |
| Equity positions in the banking book (CR) | 879 | 3,658 | 4, CR10 | | | | 879 |
| Settlement risk | 58 | 89 | | 222 | 285 | | 280 |
| Securitization exposure in the banking book | | | | 213 | 709 | 7 | 213 |
| Market risk | | 19,541 | 8 | 500 | 452 | 7, 8 | 500 |
| Value-at-risk (VaR) | | 2,454 | MR3 | | | | |
| Stressed value-at risk (SVaR) | | 5,866 | MR3 | | | | |
| Add-on for risks-not-in-VaR (RniV) | | 8,915 | MR3 | | | | |
| Incremental risk charge (IRC) | | 2,299 | MR3 | | | | |
| Comprehensive risk measure (CRM) | | 7 | MR3 | | | | |
| Securitization / re-securitization in the trading book | | | | 500 | 452 | MR1 | 500 |
| Operational risk | | 77,558 | | | | | |
| Amounts below thresholds for deduction (250% risk weight) | 975 | 2,583 | | 3,513 | 8,782 | | 4,487 |
| Deferred tax assets | | | | 3,513 | 8,782 | | 3,513 |
| Significant investments in non-consolidated financial institutions | 975 | 2,583 | | | | | 975 |
| Total | 618,701 | 214,587 | | 146,094 | 49,159 | | 764,795 |

Regulatory exposures and risk-weighted assets (continued)

| 30.6.18 <i>USD million</i> | A-IRB / model-based approaches | | | Standardized approaches ² | | | Total Net EAD |
|---|--------------------------------|---------------|----------------------------|--------------------------------------|---------------|----------------------------|------------------|
| | Net EAD | RWA | Section or table reference | Net EAD | RWA | Section or table reference | |
| Credit risk (excluding counterparty credit risk) | 546,097 | 84,956 | 4 | 51,349 | 24,309 | 4 | 597,446 |
| Central governments and central banks | 144,415 | 2,747 | CR6, CR7 | 14,293 | 498 | CR4, CR5 | 158,708 |
| Banks and securities dealers | 16,376 | 4,660 | CR6, CR7 | 6,726 | 1,599 | CR4, CR5 | 23,102 |
| Public-sector entities, multilateral development banks | 11,657 | 874 | CR6, CR7 | 1,602 | 446 | CR4, CR5 | 13,259 |
| Corporates: specialized lending | 22,534 | 11,168 | CR6, CR7 | | | CR4, CR5 | 22,534 |
| Corporates: other lending | 60,132 | 31,118 | CR6, CR7 | 5,376 | 4,178 | CR4, CR5 | 65,508 |
| Central counterparties | | | | 511 | 27 | CR4, CR5 | 511 |
| Retail | 290,983 | 34,389 | CR6, CR7 | 12,619 | 8,215 | CR4, CR5 | 303,601 |
| <i>Residential mortgages</i> | <i>139,175</i> | <i>24,937</i> | | <i>6,642</i> | <i>2,626</i> | | <i>145,816</i> |
| <i>Qualifying revolving retail exposures (QRRE)</i> | <i>1,655</i> | <i>582</i> | | | | | <i>1,655</i> |
| <i>Other retail</i> ¹ | <i>150,153</i> | <i>8,870</i> | | <i>5,977</i> | <i>5,589</i> | | <i>156,130</i> |
| Non-counterparty-related risk | | | | 10,222 | 9,345 | CR4, CR5 | 10,222 |
| <i>Property, equipment and software</i> | | | | <i>9,108</i> | <i>9,108</i> | | <i>9,108</i> |
| <i>Other</i> | | | | <i>1,114</i> | <i>238</i> | | <i>1,114</i> |
| Counterparty credit risk² | 92,858 | 23,006 | 5 | 90,659 | 10,108 | 5 | 183,516 |
| Central governments and central banks | 7,196 | 879 | CCR3, CCR4 | 2,305 | 233 | CCR3, CCR4 | 9,501 |
| Banks and securities dealers | 18,761 | 5,266 | CCR3, CCR4 | 6,518 | 1,465 | CCR3, CCR4 | 25,280 |
| Public-sector entities, multilateral development banks | 2,590 | 295 | CCR3, CCR4 | 832 | 34 | CCR3, CCR4 | 3,422 |
| Corporates incl. specialized lending | 46,298 | 16,225 | CCR3, CCR4 | 18,092 | 5,878 | CCR3, CCR4 | 64,390 |
| Central counterparties | 18,012 | 341 | | 53,665 | 1,467 | | 71,677 |
| Retail | | | | 9,246 | 1,031 | CCR3, CCR4 | 9,246 |
| Credit valuation adjustment (CVA) | | 1,799 | 5, CCR2 | | 1,697 | 5, CCR2 | |
| Equity positions in the banking book (CR) | 882 | 3,676 | 4, CR10 | | | | 882 |

| | | | | | | | |
|--|----------------|----------------|----------|----------------|---------------|-------------|----------------|
| Settlement risk | 47 | 216 | | 220 | 316 | | 267 |
| Securitization exposure in the banking book | | | | 234 | 1,275 | 7 | 234 |
| Market risk | | 12,136 | 8 | 390 | 364 | 7, 8 | 390 |
| Value-at-risk (VaR) | | 1,652 | MR3 | | | | |
| Stressed value-at risk (SVaR) | | 3,450 | MR3 | | | | |
| Add-on for risks-not-in-VaR (RniV) | | 4,578 | MR3 | | | | |
| Incremental risk charge (IRC) | | 2,399 | MR3 | | | | |
| Comprehensive risk measure (CRM) | | 57 | MR3 | | | | |
| Securitization / re-securitization in the trading book | | | | 390 | 364 | MR1 | 390 |
| Operational risk | | 80,124 | | | | | |
| Amounts below thresholds for deduction (250% risk weight) | 762 | 2,020 | | 3,441 | 8,601 | | 4,203 |
| Deferred tax assets | | | | 3,441 | 8,601 | | 3,441 |
| Significant investments in non-consolidated financial institutions | 762 | 2,020 | | | | | 762 |
| Total | 640,646 | 207,934 | | 146,292 | 46,669 | | 786,938 |

UBS Group AG consolidated

Regulatory exposures and risk-weighted assets (continued)31.12.17³

| USD million | A-IRB / model-based approaches | | | Standardized approaches ² | | | Total |
|---|--------------------------------|---------------|----------------------------|--------------------------------------|---------------|----------------------------|----------------|
| | Net EAD | RWA | Section or table reference | Net EAD | RWA | Section or table reference | |
| Credit risk (excluding counterparty credit risk) | 520,414 | 75,597 | 4 | 50,808 | 24,607 | 4 | 571,222 |
| Central governments and central banks | 132,116 | 2,910 | CR6, CR7 | 13,107 | 512 | CR4, CR5 | 145,223 |
| Banks and securities dealers | 12,474 | 2,956 | CR6, CR7 | 6,378 | 1,498 | CR4, CR5 | 18,852 |
| Public-sector entities, multilateral development banks | 11,695 | 841 | CR6, CR7 | 2,068 | 653 | CR4, CR5 | 13,763 |
| Corporates: specialized lending | 23,296 | 10,207 | CR6, CR7 | | | CR4, CR5 | 23,296 |
| Corporates: other lending | 56,979 | 25,786 | CR6, CR7 | 5,875 | 4,523 | CR4, CR5 | 62,854 |
| Central counterparties | | | | 458 | 25 | CR4, CR5 | 458 |
| Retail | 283,854 | 32,897 | CR6, CR7 | 12,687 | 8,216 | CR4, CR5 | 296,541 |
| <i>Residential mortgages</i> | <i>138,709</i> | <i>23,692</i> | | <i>6,887</i> | <i>2,776</i> | | <i>145,596</i> |
| <i>Qualifying revolving retail exposures (QRRE)</i> | <i>1,659</i> | <i>578</i> | | | | | <i>1,659</i> |
| <i>Other retail</i> ¹ | <i>143,486</i> | <i>8,626</i> | | <i>5,799</i> | <i>5,440</i> | | <i>149,285</i> |
| Non-counterparty-related risk ⁴ | | | | 10,236 | 9,180 | CR4, CR5 | 10,236 |
| <i>Property, equipment and software</i> | | | | <i>8,999</i> | <i>8,999</i> | | <i>8,999</i> |
| <i>Other</i> | | | | <i>1,237</i> | <i>181</i> | | <i>1,237</i> |
| Counterparty credit risk² | 106,713 | 21,823 | 5 | 90,880 | 9,240 | 5 | 197,593 |
| Central governments and central banks | 6,147 | 692 | CCR3, CCR4 | 2,109 | 279 | CCR3, CCR4 | 8,256 |
| Banks and securities dealers | 17,652 | 4,993 | CCR3, CCR4 | 6,880 | 1,454 | CCR3, CCR4 | 24,531 |
| Public-sector entities, multilateral development banks | 2,996 | 407 | CCR3, CCR4 | 810 | 28 | CCR3, CCR4 | 3,806 |
| Corporates incl. specialized lending | 42,867 | 15,134 | CCR3, CCR4 | 17,285 | 5,121 | CCR3, CCR4 | 60,151 |
| Central counterparties | 37,052 | 597 | | 55,956 | 1,830 | | 93,008 |
| Retail | | | | 7,841 | 528 | CCR3, CCR4 | 7,841 |
| Credit valuation adjustment (CVA) | | 2,017 | 5, CCR2 | | 1,146 | 5, CCR2 | |
| Equity positions in the banking book (CR) | 587 | 2,429 | 4, CR10 | | | | 587 |

| | | | | | | | |
|---|----------------|----------------|----------|----------------|---------------|-------------|----------------|
| Settlement risk Securitization exposure in the banking book | 71 | 79 | | 366 | 300 | | 436 |
| Market risk | 2,352 | 1,739 | | | | 7 | 2,352 |
| Value-at-risk (VaR) | | 12,188 | 8 | 291 | 410 | 7, 8 | 291 |
| Stressed value-at risk (SVaR) | | 1,656 | MR3 | | | | |
| Add-on for risks-not-in-VaR (RniV) | | 3,620 | MR3 | | | | |
| Incremental risk charge (IRC) | | 3,284 | MR3 | | | | |
| Comprehensive risk measure (CRM) | | 3,547 | MR3 | | | | |
| Securitization / re-securitization in the trading book | | 81 | MR3 | 291 | 410 | MR1 | 291 |
| Operational risk Amounts below thresholds for deduction (250% risk weight) | | 81,476 | | | | | |
| Deferred tax assets | 739 | 1,958 | | 3,820 | 9,550 | | 4,559 |
| Significant investments in non-consolidated financial institutions | | | | 3,820 | 9,550 | | 3,820 |
| Total | 630,875 | 199,305 | | 146,165 | 45,254 | | 777,040 |

1 Consists primarily of Lombard lending, which represents loans made against the pledge of eligible marketable securities or cash, as well as exposures to small business, private clients and other retail customers without mortgage financing. 2 The split between A-IRB / model-based approaches and Standardized approaches for counterparty credit risk refers to the exposure measure, whereas the split between CCR3 and CCR4 refers to the risk weighting approach. As of 31 December 2018, USD 93,933 million of EAD (30 June 2018: USD 109,422 million; 31 December 2017: USD 103,037 million) was subject to the advanced approach, and USD 6,679 million of EAD (30 June 2018: USD 2,417 million; 31 December 2017: USD 1,549 million) was subject to the standardized risk weighting approach. 3 Based on phase-in rules. Excludes EAD for deferred tax assets on net operating losses of USD 1,190 million, which is not subject to credit risk RWA calculation.

Section 3 Linkage between financial statements and regulatory exposures

This section provides information about the differences between our regulatory exposures and carrying values presented in our financial statements prepared in accordance with the International Financial Reporting Standards (IFRS). Assets and liabilities presented in our IFRS financial statements may be subject to more than one risk framework as explained further on the next page.

Annual |

LI1: Differences between accounting and regulatory scopes of consolidation and mapping financial statement categories with regulatory risk categories

| 31.12.18 | Carrying values as reported in published financial statements | Carrying values under scope of regulatory consolidation | Carrying values of items: | | | |
|---|---|---|---|--|--|----------------------------------|
| | | | Subject to credit risk framework ¹ | Subject to counterparty credit risk framework ² | Subject to securitization framework ³ | Subject to market risk framework |
| <i>USD million</i> | | | | | | |
| Assets | | | | | | |
| Cash and balances at central banks | 108,370 | 108,370 | 108,370 | | | |
| Loans and advances to banks | 16,868 | 16,655 | 15,612 | 1,043 ⁴ | | |
| Receivables from securities financing transactions | 95,349 | 95,349 | | 95,349 | | 122 |
| Cash collateral receivables on derivative instruments | 23,602 | 23,602 | | 23,602 | | 7,271 |
| Loans and advances to customers | 320,352 | 320,405 | 314,762 | 5,643 ⁴ | | |
| Other financial assets measured at amortized cost | 22,563 | 22,342 | 22,040 | 302 | | |
| | 587,104 | 586,723 | 460,785 | 125,938 | | 7,393 |

Total financial assets measured at amortized cost

| | | | | | | |
|---|---------|---------|--------------------|---------------------|-----|---------|
| Financial assets at fair value held for trading | 104,370 | 103,897 | 9,006 ⁵ | 32,121 ⁶ | 126 | 94,764 |
| Derivative financial instruments | 126,210 | 126,219 | | 126,309 | | 115,430 |
| Brokerage receivables | 16,840 | 16,840 | 4,407 | 12,434 | | |
| Financial assets at fair value not held for trading | 82,690 | 61,241 | 50,637 | 10,340 ⁷ | 87 | 11,945 |

Total financial assets measured at fair value through profit or loss

| | | | | | | |
|--|----------------|----------------|---------------|----------------|------------|----------------|
| | 330,110 | 308,197 | 64,050 | 181,204 | 213 | 222,140 |
|--|----------------|----------------|---------------|----------------|------------|----------------|

Financial assets measured at fair value through other comprehensive income

| | | | | | | |
|----------------------------------|----------------|----------------|----------------|------------------------|------------|----------------|
| | 6,667 | 6,667 | 6,666 | 188⁶ | | |
| Consolidated participations | | 77 | 77 | | | |
| Investments in associates | 1,099 | 1,099 | 977 | | | |
| Property, equipment and software | 9,348 | 9,297 | 9,297 | | | |
| Goodwill and intangible assets | 6,647 | 6,647 | | | | |
| Deferred tax assets | 10,105 | 10,105 | 3,412 | | | |
| Other non-financial assets | 7,410 | 7,400 | 3,101 | | | 4,298 |
| Total assets | 958,489 | 936,212 | 548,366 | 307,330 | 213 | 233,830 |

Liabilities

| | | | | | | |
|---|--------|--------|--|--|--|----|
| Amounts due to banks | 10,962 | 10,962 | | | | |
| Payables from securities financing transactions | 10,296 | 10,296 | | | | 39 |

| | | | | |
|--|----------------|----------------|----------------|---------------------|
| Cash collateral payables on derivative instruments | 28,906 | 28,906 | 28,906 | 6,340 |
| Customer deposits | 419,838 | 419,787 | | |
| Debt issued measured at amortized cost | 132,271 | 132,264 | | |
| Other financial liabilities measured at amortized cost | 6,885 | 6,381 | | |
| Total financial liabilities measured at amortized cost | 609,159 | 608,597 | 28,906 | 6,379 |
| Financial liabilities at fair value held for trading | 28,943 | 28,943 | | 28,943 |
| Derivative financial instruments | 125,723 | 125,727 | 125,757 | 118,858 |
| Brokerage payables designated at fair value | 38,420 | 38,420 | | |
| Debt issued designated at fair value | 57,031 | 57,031 | | 57,031 ⁹ |
| Other financial liabilities designated at fair value | 33,594 | 11,915 | | 5,452 |
| Total financial liabilities measured at fair value through profit or loss | 283,711 | 262,037 | 125,757 | 210,284 |
| Provisions | 3,494 | 3,494 | | |
| Other non-financial liabilities | 9,022 | 9,007 | | |
| Total liabilities | 905,386 | 883,135 | 0 | 154,663 |
| | | | | 0 |
| | | | | 216,663 |

¹ Includes non-counterparty-related risk and equity positions in the banking book subject to the simple weight method of USD 23,161 million, which are excluded from the credit risk tables CR1, CR2, CR3 and section 3 of this report, resulting in IFRS carrying values reflected in the credit risk section of USD 53.3 million. However, credit risk tables CR4 and CR5 include non-counterparty-related risk and credit risk includes equity positions in the banking book, both not subject to the threshold deduction approach.

Includes settlement risk, which is not included in section 5 of this report. 3 This column only consists of securitization positions in the banking book. Trading book securitizations are included in column "Sub market risk framework." 4 Consists of settlement risk and margin loans, which are both subject to credit risk. 5 Includes trading portfolio assets in the banking book and traded loans. 6 Includes assets pledged as collateral, since collateral posted is subject to counterparty credit risk. 7 Includes structured reverse repurchase and securities borrowing agreements, as well as other exposures subject to the credit risk framework. 8 Consists of goodwill on investments in associates of USD 176 million net of tax liability (DTL) on goodwill of USD 54 million. 9 'Debt issued designated at fair value' is presented in 'market risk framework' as of 31 December 2018. In prior year's Pillar 3 disclosures, these financial instruments were presented as 'Not subject to capital requirements or subject to deductions from capital'. The revised presentation did not have an effect on capital and capital ratios.

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UBS Group AG consolidated

Annual | The table on the previous page provides a breakdown of the IFRS balance sheet into the risk types used to calculate our regulatory capital requirements. Receivables and payables from securities financing transactions, cash collateral receivables and payables on derivative instruments, financial assets at fair value held for trading, derivative financial instruments, and financial assets at fair value not held for trading are subject to regulatory capital charges in both the market risk and the counterparty credit risk categories. In addition, financial assets measured at fair value through profit or loss and financial assets measured at fair value through other comprehensive income include securities that were pledged as collateral. These securities are also considered in the counterparty credit risk framework, as collateral posted is subject to counterparty credit risk. [p](#)

Explanation of the difference between the IFRS and regulatory scope of consolidation

Quarterly | The scope of consolidation for the purpose of calculating Group regulatory capital is generally the same as the consolidation scope under International Financial Reporting Standards (IFRS) and includes subsidiaries that are directly or indirectly controlled by UBS Group AG and active in banking and finance. However, subsidiaries consolidated under IFRS whose business is outside the banking and finance sector are excluded from the regulatory scope of consolidation.

The key difference between the IFRS and regulatory capital scope of consolidation as of 31 December 2018 relates to investments in insurance, real estate and commercial companies as well as investment vehicles that are consolidated under IFRS, but not for regulatory capital purposes, where they are subject to risk-weighting.

The table below provides a list of the most significant entities that were included in the IFRS scope of consolidation, but not in the regulatory capital scope of consolidation. These entities account for most of the difference between the “Balance sheet in accordance with IFRS scope of consolidation” and the “Balance sheet in accordance with regulatory scope of consolidation” columns in the “CC2: Reconciliation of accounting balance sheet to balance sheet under the regulatory scope of consolidation” table and such difference is mainly related to financial assets at fair value not held for trading and other financial liabilities designated at fair value. As of 31 December 2018, entities consolidated under either the IFRS or the regulatory scope of consolidation did not report any significant capital deficiencies.

In the banking book, certain equity investments are consolidated neither under IFRS nor under the regulatory scope. As of 31 December 2018, these investments mainly consisted of infrastructure holdings and joint operations (e.g., settlement and clearing institutions, stock and financial futures exchanges) and included our participation in the SIX Group. These investments were risk weighted based on applicable threshold rules.

More information on the legal structure of the UBS Group and on the IFRS scope of consolidation is provided on pages 12–13 and 328–329, respectively, of our Annual Report 2018, available under “Annual reporting” [at www.ubs.com/investors](http://www.ubs.com/investors). [p](#)

Quarterly I

Main legal entities consolidated under IFRS but not included in the regulatory scope of consolidation**31.12.18**

| <i>USD million</i> | Total assets¹ | Total equity¹ | Purpose |
|---|---------------------------------|---------------------------------|---|
| UBS Asset Management Life Ltd | 21,722 | 41 | Life insurance |
| A&Q Alpha Select Hedge Fund Limited | 305 | 304 ² | Investment vehicle for multiple investors |
| A&Q Alternative Solution Limited | 268 | 263 ² | Investment vehicle for multiple investors |
| A&Q Alternative Solution Master Limited | 262 | 262 ² | Investment vehicle for multiple investors |
| UBS Life Insurance Company USA | 163 | 43 | Life insurance |
| A&Q Global Alpha Strategies XL Limited | 106 | 52 ² | Investment vehicle for multiple investors |

1 Total assets and total equity on a standalone basis. 2 Represents the net asset value of issued fund units. These fund units are subject to liability treatment in the consolidated financial statements in accordance with IFRS.

p

Annual I

LI2: Main sources of differences between regulatory exposure amounts and carrying values in financial statements (under the regulatory scope of consolidation)

| 31.12.18 | | Total | Items subject to: | | | |
|--------------------|---|----------------|--------------------------|--|-----------------------------|--------------------------|
| <i>USD million</i> | | | Credit risk framework | Counterparty credit risk framework | Securitization framework | Market risk framework |
| 1 | Asset carrying value amount under scope of regulatory consolidation (as per template LI1) | 936,212 | 548,366 ¹ | 307,330 | 213 | 233,830 |
| 2 | Liabilities carrying value amount under scope of regulatory consolidation ² | (125,652) | | (125,652) | | |
| 3 | Total net amount under regulatory scope of consolidation | 810,560 | 548,366 | 181,678 | 213 | 233,830 |
| 4 | Off-balance sheet amounts (post CCF; e.g., guarantees, commitments) | 68,297 | 58,565 | 9,731 | | |
| 5 | Differences due to prudential filters | (13,470) | | | | |
| 6 | PFE, differences in netting and collateral mitigation on derivatives | 78,636 | | 78,636 | | |
| 7 | SFTs including collateral mitigation | (101,385) | | (101,385) | | |
| 8 | Other differences including collateral mitigation in the banking book | (77,842) | (11,511) | | | (233,330) |
| 9 | Exposure amounts considered for regulatory purposes | 764,795 | 595,421 | 168,661 | 213 | 500 |

1 Includes non-counterparty-related risk and equity positions in the banking book subject to the simple risk weight method of USD 23,161 million, which are excluded from the credit risk tables CR1, CR2, CR3 and CRB in section 3 of this report, resulting in IFRS carrying values reflected in the credit risk section of USD 531,975 million. However, credit risk tables CR4 and CR5 include non-counterparty-related risk and credit risk table CR10 includes equity positions in the banking book, both not subject to the threshold deduction approach. 2 Includes the amounts of financial instruments and cash collateral considered as netting per relevant

netting agreement so as not to exceed the net amount of financial assets presented on the balance sheet; i.e., over-collateralization, where it exists, is not reflected in the table. 3 Includes exposure amounts considered for regulatory purposes for non-cash collateral provided on derivative transactions. 4 Exposure at default is only calculated for securitization exposures in the trading book, resulting in a difference between carrying values and exposure amounts considered for regulatory purposes. The effect on the total exposure is higher, since certain exposures are subject to regulatory capital charges in both the market risk and the counterparty credit risk categories.

P

Regulatory exposures

Annual | The table above illustrates the key differences between regulatory exposure amounts and accounting carrying values under the regulatory scope of consolidation. In addition to the accounting carrying values, the regulatory exposure amount includes:

- off-balance sheet amounts (line 4)
- potential future exposure (PFE) for derivatives, offset by netting where an enforceable master netting agreement is in place, and by eligible financial collateral deductions (line 6)
- effects from the model calculation of effective expected positive exposure (EEPE) applied to derivatives (line 6)
- any netting and collateral mitigation on securities financing transactions (SFTs) through the application of the close-out period approach or the comprehensive measurement approach (line 7)
- effect of collateral mitigation in the banking book (line 8)

The regulatory exposure amount excludes prudential filters (line 5), comprising items subject to deduction from capital, which are not risk weighted. In addition, exposures that are only subject to market risk do not create any regulatory exposure, as their risk is reflected as part of our market risk RWA calculation (line 8).p

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Fair value measurement

The table below references more information on fair value measurement, which is provided in our Annual Report 2018.

Annual I

| Pillar 3 disclosure requirement | Annual Report 2018 section | Disclosure | Annual Report 2018 page number |
|---|--|---|---------------------------------------|
| Valuation methodologies applied, including mark-to-market and mark-to-model methodologies in use | Consolidated financial statements | – Note 24a Valuation principles | 429–430 |
| | | – Note 24c Fair value hierarchy | 431–437 |
| | | – Note 24f Level 3 instruments: valuation techniques and inputs | 441–443 |
| Description of the independent price verification process Procedures for valuation adjustments or reserves for valuing trading positions by type of instrument | Consolidated financial statements Consolidated financial statements | – Note 24b Valuation governance | 430 |
| | | – Note 24d Valuation adjustments | 437–439 |

P

Section 4 Credit risk

Introduction

This section provides information on the exposures subject to the Basel III credit risk framework, as presented in the “Regulatory exposures and risk-weighted assets” table on pages 16–18 of this report. Information on counterparty credit risk is reflected in the “Counterparty credit risk” section on pages 55–66 of this report. Securitization positions are reported in the “Securitized positions” section on pages 72–79 of this report.

The tables in this section provide details on the exposures used to determine the firm’s credit risk-related regulatory capital requirement. The parameters applied under the advanced internal ratings-based (A-IRB) approach are generally based on the same methodologies, data and systems we use for internal credit risk quantification, except where certain treatments are specified by regulatory requirements. These include, for example, the application of regulatory prescribed floors and multipliers, and differences with respect to eligibility criteria and exposure definitions. The exposure information presented in this section may therefore differ from our internal management view disclosed in the “Risk management and control” sections of our quarterly and annual reports. Similarly, the regulatory capital prescribed measure of credit risk exposure also differs from that defined under International Financial Reporting Standards (IFRS).

Credit risk exposure categories

Annual | The definitions of the FINMA-defined Pillar 3 credit risk exposure categories “Loans” and “Debt securities” as referred to in the “CR1: Credit quality of assets” and “CR3: Credit risk mitigation techniques – overview” tables in this section have been updated to reflect the new IFRS balance sheet structure under IFRS 9.

The Pillar 3 category “Loans” comprises financial instruments held with the intent to collect the contractual payments and includes the following IFRS balances to the extent that they are subject to the credit risk framework:

- balances at central banks
- loans and advances to banks
- loans and advances to customers
- other financial assets measured at amortized cost, excluding money market instruments, checks and bills and other debt instruments
- traded loans in the banking book that are included within *Financial assets at fair value held for trading*
- brokerage receivables

- loans including structured loans that are included within *Financial assets at fair value not held for trading*
- other non-financial assets

The Pillar 3 category “Debt securities” includes the following IFRS balances to the extent that they are subject to the credit risk framework:

- money market instruments, checks and bills and other debt instruments that are included within *Other financial assets measured at amortized cost*
- financial assets at fair value held for trading, excluding traded loans
- financial assets at fair value not held for trading, excluding loans
- financial assets measured at fair value through other comprehensive income

P

This section is organized in seven sub-sections.

Credit risk management

Annual | Includes a reference to disclosures on our risk management objectives and risk management process, our organizational structure and our risk governance. **p**

Credit risk exposure and credit quality of assets

Annual | **Semiannual** | Provides information on our credit risk exposures and credit quality of assets. **pp**

Credit risk mitigation

Annual | **Semiannual** | Refers to disclosures on policies and processes for collateral evaluation and management, the use of netting and credit risk mitigation instruments. We also disclose information on our credit risk mitigation (CRM) techniques used to reduce credit risk for loans and debt securities. All secured exposures are presented in a table, irrespective of whether the standardized approach or the A-IRB approach is used for the risk-weighted assets (RWA) calculation. **pp**

Credit risk under the standardized approach

Annual | **Semiannual** | Provides information on the use of external credit assessment institutions (ECAI) to determine risk weightings applied to rated counterparties, as well as quantitative information on credit risk exposures and the effect of CRM under the standardized approach. **pp**

Credit risk under internal risk-based approaches

Annual | Semiannual | Refers to disclosures on our internal risk-based models used to calculate RWA, including information on internal model development and control, as well as characteristics of our models. Includes tables that provide information on credit risk exposures under the A-IRB approach, including the main parameters used in A-IRB models for the calculation of capital requirements, presented by portfolio and probability of default (PD) range. [pp](#)

Credit risk risk-weighted assets under the A-IRB approach

Quarterly | Comprises disclosures on the quarterly credit risk RWA development under the A-IRB approach. [p](#)

Backtesting

Annual | Refers to disclosures on backtesting. [p](#)

UBS Group AG consolidated

Credit risk management

The table below presents an overview of Pillar 3 disclosures that are provided separately in our Annual Report 2018.

Annual I

CRA – Credit risk management

| Pillar 3 disclosure requirement | Annual Report 2018 section | Disclosure | Annual Report 2018 page number |
|--|--|---|---------------------------------------|
| Translation of the business model into the components of the bank's credit risk profile | Risk, treasury and capital management | – Key risks, risk measures and performance by business division and Corporate Center unit | 120 |
| | | – Risk categories, Risk definitions | 121 |
| | | – Credit risk profile of the Group | 134 |
| | | – Main sources of credit risk | 133 |
| | | – Note 23 d) Maximum exposure to credit risk | 421–422 |
| Criteria and approach used for defining credit risk management policy and for setting credit risk limits | Consolidated financial statements Risk, treasury and capital management | – Risk governance | 123–124 |
| | | – Risk appetite framework | 125–128 |
| | | – Risk measurement | 130–132 |
| | | – Credit risk – Overview of measurement, monitoring and management techniques | 133 |
| Structure and organization of the credit risk management and control function | Risk, treasury and capital management | – Risk governance | 123–124 |
| Interaction between the credit risk management, risk control, | Risk, treasury and capital management | – Risk governance – Risk appetite framework | 123–124 125–128 |

compliance and
internal audit
functions

Scope and content
of the reporting on
credit risk
exposure to the
executive
management and
to the board of
directors

Risk, treasury
and capital
management

- Risk governance 123–124
- Internal risk reporting 129
- Credit risk profile of the Group 134
- Risk appetite framework 125–128

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Credit risk exposure and credit quality of assets

Amounts shown in the tables below are IFRS carrying values according to the regulatory scope of consolidation that are subject to the credit risk framework. Comparative prior-period information has not been disclosed due to the adoption of IFRS 9, effective prospectively from 1 January 2018.

Annual |

CRB: Breakdown of exposures by industry 31.12.18

| <i>USD million</i> | Banks | Construc- tion | Electricity, gas, water supply | Financial services | Hotels and restaurants | Manufac- turing ² | Mining | Private households au |
|--|----------------|-------------------|--------------------------------------|-----------------------|---------------------------|---------------------------------|------------|--------------------------|
| Balances at central banks | 107,622 | | | | | | | |
| Loans and advances to banks ¹ | 15,612 | | | | | | | |
| Loans and advances to customers ¹ | | 2,005 | 777 | 58,944 | 1,806 | 3,963 | 571 | 196,407 |
| Other financial assets measured at amortized cost | 2,350 | 127 | 1 | 2,560 | 7 | 280 | 10 | 4,503 |
| Total financial assets measured at amortized cost | 125,584 | 2,132 | 779 | 61,505 | 1,812 | 4,244 | 581 | 200,910 |
| Financial assets at fair value held for trading | 93 | 20 | 76 | 224 | 2 | 121 | 25 | |
| Brokerage receivables | 7 | 42 | 19 | 322 | 4 | | 4 | 3,360 |
| Financial assets at fair value not held for trading | 13,505 | 0 | 1 | 11,752 | | | 16 | 1,284 |
| Total financial assets measured at fair value | 13,606 | 62 | 96 | 12,297 | 6 | 121 | 45 | 4,644 |
| Financial assets measured at | 209 | | | 3,931 | | | | 50 |

**fair value
through other
comprehensive
income**

| | | | | | | | | |
|----------------------------|----------------|--------------|------------|---------------|--------------|--------------|------------|----------------|
| Other non-financial assets | 300 | | | 53 | | | | 419 |
| Total | 139,699 | 2,194 | 875 | 77,786 | 1,818 | 4,365 | 626 | 206,022 |

1 Loan exposure is reported in line with the IFRS definition. 2 Includes the chemicals industry. 3 Includes Transport, storage, communications and other.

p

Annual | The table below provides a breakdown of our credit risk exposures by geographical area. The geographical distribution is based on the legal domicile of the counterparty or issuer. p

Annual |

**CRB: Breakdown of exposures by geographical area
31.12.18**

| <i>USD million</i> | Asia Pacific | Latin America | Middle East and Africa | North America | Switzerland | Rest of Europe | Total carrying value of assets |
|--|---------------|---------------|------------------------|----------------|----------------|----------------|--------------------------------|
| Balances at central banks | 6,528 | | | 15,655 | 70,008 | 15,430 | 107,622 |
| Loans and advances to banks ¹ | 4,485 | 155 | 461 | 5,870 | 261 | 4,380 | 15,612 |
| Loans and advances to customers ¹ | 23,068 | 5,525 | 4,526 | 81,028 | 164,390 | 36,225 | 314,762 |
| Other financial assets measured at amortized cost | 404 | 33 | 19 | 16,988 | 1,995 | 2,259 | 21,698 |
| Total financial assets measured at amortized cost | 34,486 | 5,714 | 5,006 | 119,541 | 236,655 | 58,294 | 459,695 |
| Financial assets at fair value held for trading | 1,754 | 631 | 8 | 3,384 | 30 | 2,928 | 8,735 |
| Brokerage receivables | 6 | 55 | 14 | 4,278 | 11 | 43 | 4,407 |
| Financial assets at fair value not held for trading | 16,196 | | | 16,741 | 2,431 | 14,084 | 49,452 |
| Total financial assets measured at fair value through | 17,956 | 686 | 21 | 24,403 | 2,472 | 17,055 | 62,594 |

| | | | | | | | |
|-------------------------|---------------|--------------|--------------|----------------|----------------|---------------|----------------|
| profit or loss | | | | | | | |
| Financial assets | | | | | | | |
| measured at fair | | | | | | | |
| value through | | | | | | | |
| other | 439 | 76 | | 6,151 | | | 6,666 |
| comprehensive | | | | | | | |
| income | | | | | | | |
| Other non-financial | | | | | | | |
| assets | 134 | 29 | 4 | 481 | 295 | 2,078 | 3,021 |
| Total | 53,015 | 6,504 | 5,032 | 150,575 | 239,422 | 77,427 | 531,975 |

1 Loan exposure is reported in line with IFRS definition.

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UBS Group AG consolidated

Annual | The table below provides a breakdown of our credit risk exposure by residual maturity. Residual maturity is presented based on contract end date and does not include potential early redemption features. **p**

Annual |**CRB: Breakdown of exposures by residual maturity****31.12.18**

| <i>USD million</i> | Due in 1 year or less | Due between 1 year and 5 years | Due over 5 years | Total carrying value of assets |
|---|--------------------------|--------------------------------------|---------------------|-----------------------------------|
| Balances at central banks | 107,622 | | | 107,622 |
| Loans and advances to banks ¹ | 15,559 | 34 | 19 | 15,612 |
| Loans and advances to customers ¹ | 178,182 | 89,294 | 47,286 | 314,762 |
| Other financial assets measured at amortized cost | 6,811 | 6,545 | 8,342 | 21,698 |
| Total financial assets measured at amortized cost | 308,174 | 95,874 | 55,647 | 459,695 |
| Financial assets at fair value held for trading | 488 | 1,453 | 6,793 | 8,735 |
| Brokerage receivables | 4,407 | | | 4,407 |
| Financial assets at fair value not held for trading | 28,597 | 18,668 | 2,188 | 49,452 |
| Total financial assets measured at fair value through profit or loss | 33,492 | 20,121 | 8,981 | 62,594 |
| Financial assets measured at fair value through other comprehensive income | 1,077 | 1,409 | 4,180 | 6,666 |
| Other non-financial assets | 1,709 | 1,312 | | 3,021 |
| Total | 344,452 | 118,716 | 68,808 | 531,975 |

¹ Loan exposure is reported in line with the IFRS definition.

p

Policies for past-due, non-performing and credit-impaired claims

Annual | We have adopted IFRS 9, *Financial Instruments*, effective as of 1 January 2018. IFRS 9 introduces a forward-looking expected credit loss (ECL) approach, which is intended to result in an earlier recognition of credit losses compared with the incurred-loss impairment approach for financial instruments under IAS 39, *Financial Instruments: Recognition and Measurement*, and the loss-provisioning approach for financial guarantees and loan commitments under IAS 37, *Provisions, Contingent Liabilities and Contingent Assets*.

In line with the regulatory definition, we report a claim as non-performing when (i) it is more than 90 days past due; (ii) it is subject to restructuring proceedings, where preferential conditions concerning interest rates, subordination, tenor etc. have been granted in order to avoid default of the counterparty (forbearance); or (iii) the counterparty is subject to bankruptcy / enforced liquidation proceedings in any form, even if there is sufficient collateral to cover the due payment.

UBS applies a single definition of default for classifying assets and determining the PD of its obligors for risk modeling purposes. The definition of default is based on quantitative and qualitative criteria. A counterparty is classified as defaulted at the latest when material payments of interest, principal or fees are overdue for more than 90 days, or more than 180 days for certain exposures in relation to loans to private and commercial clients in Personal & Corporate Banking, and to private clients of Global Wealth Management Region Switzerland. UBS does not consider the general 90-day presumption for default recognition appropriate for these latter portfolios based on an analysis of the cure rates, which demonstrated that strict application of the 90-day criterion would not accurately reflect the inherent credit risk. Counterparties are also classified as defaulted when bankruptcy, insolvency proceedings or enforced liquidation have commenced; obligations have been restructured on preferential terms (forbearance); or there is other evidence that payment obligations will not be fully met without recourse to collateral. The latter may be the case even if, to date, all contractual payments have been made when due. If a counterparty is defaulted, generally all claims against the counterparty are treated as defaulted.

An instrument is classified as credit-impaired if the counterparty is defaulted, and / or the instrument is identified as purchased or originated credit-impaired (POCI). An instrument is POCI if it has been purchased with a material discount to its carrying amount following a risk event of the issuer or originated with a defaulted counterparty. Once a financial asset is classified as defaulted / credit-impaired (except POCIs), it is reported as a stage 3 instrument and remains as such unless all past due amounts have been rectified, additional payments have been made on time, the position is not classified as credit-restructured, and there is general evidence of credit recovery. A three-month probation period is applied before a transfer back to stages 1 or 2 can be triggered. However, most instruments remain in stage 3 for a longer period.

The tables below provide a breakdown of impaired exposures by geographical region and industry. The amounts shown are IFRS carrying values. The geographical distribution is based on the legal domicile of the counterparty or issuer.^p

Annual I

CRB: Credit-impaired exposures by industry**31.12.18**

| <i>USD million</i> | Credit-impaired exposures, gross (Stage 3) | Allowances for credit-impaired exposures | Credit-impaired exposures net of allowances | Write-offs for the year ended |
|--|--|--|---|-------------------------------|
| Banks | 3 | (3) | 0 | 0 |
| Construction | 33 | (12) | 21 | (9) |
| Electricity, gas, water supply | 14 | (2) | 13 | (1) |
| Financial services | 164 | (48) | 115 | (7) |
| Hotels and restaurants | 69 | (11) | 58 | 0 |
| Manufacturing ¹ | 207 | (110) | 98 | (81) |
| Mining | 87 | (31) | 56 | (5) |
| Private households | 1,035 | (151) | 884 | (29) |
| Public authorities | 28 | (7) | 21 | 0 |
| Real estate and rentals | 519 | (51) | 467 | 0 |
| Retail and wholesale ² | 251 | (182) | 69 | (4) |
| Services | 117 | (39) | 78 | (5) |
| Transport, storage, communications and other | 359 | (12) | 347 | (67) |
| Total | 2,886 | (659) | 2,227 | (210) |

31.12.17³

| <i>USD million</i> | Impaired financial instruments | Specific allowances | Impaired financial instruments net of specific allowances | Collective allowances | Total allowances | Write-offs for the year ended |
|--------------------------|--------------------------------|---------------------|---|-----------------------|------------------|-------------------------------|
| Total³ | 1,669 | (718) | 951 | (13) | (731) | (120) |

1 Includes the chemicals industry 2 Includes the food and beverages industry. 3

Prior-period information is presented under IAS 39 requirements. However, it now includes exposures presented within table CR1 in the 30 June 2018 Pillar 3 report - UBS Group and significant related subsidiaries and sub-groups of USD 361 million, with associated allowances of USD 19 million.

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UBS Group AG consolidated

Annual | The table below provides a breakdown of our credit risk exposures by geographical region. The geographical distribution is based on the legal domicile of the counterparty or issuer. p

Annual |

CRB: Credit-impaired exposures by geographical area**31.12.18**

| <i>USD million</i> | Credit-impaired exposures, gross (Stage 3) | Allowances for credit-impaired exposures | Credit-impaired exposures net of allowances | Write-offs for the year ended |
|------------------------|--|--|---|-------------------------------|
| Asia Pacific | 79 | (43) | 36 | (11) |
| Latin America | 67 | (45) | 23 | 0 |
| Middle East and Africa | 10 | (2) | 8 | 0 |
| North America | 742 | (121) | 621 | (24) |
| Switzerland | 1,696 | (330) | 1,366 | (51) |
| Rest of Europe | 292 | (118) | 174 | (123) |
| Total | 2,886 | (659) | 2,227 | (210) |

31.12.17¹

| <i>USD million</i> | Impaired financial instruments | Specific allowances | Impaired financial instruments net of specific allowances | Collective allowances | Total allowances | Write-offs for the year ended |
|--------------------|--------------------------------|---------------------|---|-----------------------|-------------------------|-------------------------------|
| Total | 1,669 | (718) | 951 | (13) | (731) | (120) |

1 Prior-period information is presented under IAS 39 requirements. However, it now includes exposures presented within table CR1 in the 30 June 2018 Pillar 3 report - UBS Group and significant related subsidiaries and sub-groups of USD 361 million, with associated allowances of USD 19 million.

p

Semiannual | The table below provides a breakdown of defaulted and non-defaulted loans, debt securities and off-balance sheet exposures. With the implementation of IFRS 9, the “Allowances / impairments” columns were enhanced to reflect expected credit loss (ECL) allowances and provisions related to stages 1–3 as of 30 June 2018 and 31 December 2018. Comparative numbers as of 31 December 2017 are based on the incurred loss model of IAS 39, *Financial Instruments: Recognition and Measurement*, and were largely comparable to the IFRS 9 stage 3 allowances and provisions. More information on the net value movements related to Loans and Debt securities shown in the table below is provided on page 31 in the “CR3: Credit risk mitigation techniques – overview” table.^p

Semiannual |

CR1: Credit quality of assets

| USD million | Gross carrying values of: | | | | | | Stage 3 | | Allowance |
|-------------------------------|---------------------------|--------------|-------------------------|----------------|-------------------|----------------|--------------|--------------|-----------------------|
| | Defaulted exposures | | Non-defaulted exposures | | (credit-impaired) | | Stage 1 | | |
| | 31.12.18 ¹ | 30.6.18 | 31.12.17 | 31.12.18 | 30.6.18 | 31.12.17 | 31.12.18 | 30.6.18 | 31.12.18 ³ |
| 1 Loans ² | 2,886 | 2,912 | 2,856 | 460,119 | 457,110 | 439,606 | (659) | (753) | (272) ³ |
| 2 Debt securities | | | | 69,902 | 77,930 | 74,282 | | | |
| 3 Off-balance sheet exposures | 383 | 302 | 281 | 304,595 | 315,673 | 207,304 | (34) | (26) | (82) |
| 4 Total | 3,269 | 3,215 | 3,137 | 834,616 | 850,713 | 721,191 | (693) | (779) | (354) |

¹ Defaulted exposures are in line with credit-impaired exposures (stage 3) under IFRS 9. Refer to “Non-defaulted exposures” in our second quarter 2018 report under “Quarterly reporting” at www.ubs.com.
² Exposure is reported in line with the Pillar 3 definition. Refer to “Credit risk exposure categories” in the report.
³ Excludes ECL on exposures subject to counterparty credit risk (31 December 2017).

^p

Semiannual | The total amount of defaulted loans and debt securities amounted to USD 3.3 billion as of 31 December 2018. The net increase of USD 54 million was driven by the gross USD 381 million increase in total defaulted exposures compared with 30 June 2018, mainly driven by various corporate clients in Switzerland, partly offset by amounts written off, defaulted loans returned to non-defaulted status and other changes. ^p

Semiannual |

CR2: Changes in stock of defaulted loans, debt securities and off-balance sheet exposures

| USD million | For the half year ended 31.12.18 | For the half year ended 30.6.18 |
|-------------|----------------------------------|---------------------------------|
| 1 | 3,215 | 3,137 |

**Defaulted loans, debt securities and
off-balance sheet exposures as of
the beginning of the half year**

| | | | |
|---|--|--------------|-------|
| 2 | Loans and debt securities that have defaulted since the last reporting period | 381 | 414 |
| 3 | Returned to non-defaulted status | (56) | (147) |
| 4 | Amounts written off | (172) | (38) |
| 5 | Other changes | (99) | (151) |
| 6 | Defaulted loans, debt securities and off-balance sheet exposures as of the end of the half year | 3,269 | 3,215 |

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UBS Group AG consolidated

Annual | The table below shows a breakdown of total loan balances where payments have been missed. The amount of past-due mortgage loans was not significant compared with the overall size of the mortgage portfolio. Amounts in the table below are IFRS carrying values and include the IFRS balance sheet lines *Loans and advances to customers* and *loans and advances to banks*. [p](#)

Annual |**CRB: Past due exposures**

| <i>USD million</i> | 31.12.18 | 31.12.17 |
|---------------------------------|------------------------|------------------|
| 1–10 days | 53 | 133 |
| 11–30 days | 98 | 119 |
| 31–60 days | 74 | 133 |
| 61–90 days | 39 | 201 |
| >90 days | 1,535 | 1,049 |
| <i>of which: mortgage loans</i> | 474¹ | 421 ¹ |
| Total | 1,800 | 1,635 |

1 Total mortgage loans: USD 165,398 million (31 December 2017: 157,705 million).

[p](#)**Restructured exposures**

Annual | Under imminent payment default or where default has already occurred, we may grant concessions to borrowers in financial difficulties that we would otherwise not consider in the normal course of our business, such as preferential interest rates, extension of maturity, modifying the schedule of repayments, debt / equity swap, subordination, etc. When a forbearance measure takes place, each case is considered individually and the exposure is generally classified in default. Forbearance classification will remain, until the loan is collected or written off, non-preferential conditions are granted that supersede the preferential conditions or until the counterparty has recovered and the preferential conditions no longer exceed our risk appetite.

Contractual adjustments when there is no evidence of imminent payment default, or where changes to terms and conditions are within our usual risk appetite, are not considered to be forborne.

Refer to pages 151 –153 in our Annual Report 2018 for more information on our policies for restructured exposures.

The table below provides more information on restructured exposures as of 31 December 2018. [p](#)

Annual I

CRB: Breakdown of restructured exposures between credit-impaired and non-credit-impaired

| | Credit-impaired | | Non-credit-impaired | | Total | |
|------------------------|------------------------|----------|----------------------------|----------|-----------------|----------|
| <i>USD million</i> | 31.12.18 | 31.12.17 | 31.12.18 | 31.12.17 | 31.12.18 | 31.12.17 |
| Restructured exposures | 1,114 | 411 | | 755 | 1,114 | 1,166 |

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Credit risk mitigation

The table below presents an overview of Pillar 3 disclosures that are provided separately in our Annual Report 2018.

Annual I

CRC – Credit risk mitigation

| Pillar 3 disclosure requirement | Annual Report 2018 section | Disclosure | Annual Report 2018 page number |
|--|--|---|---------------------------------------|
| Core features of policies and processes for, and an indication of the extent to which the bank makes use of, on- and off-balance sheet netting | Risk, treasury and capital management Consolidated financial statements | – Traded products | 141–142 |
| | | – Note 11 Derivative instruments | 395–399 |
| | | – Note 27 Offsetting financial assets and financial liabilities | 455 |
| | | – Note 1a item 3i Netting | 346 |
| Core features of policies and processes for collateral evaluation and management | Risk, treasury and capital management | – Credit risk mitigation | 143–145 |
| Information about market or credit risk concentrations under the credit risk mitigation instruments used | Risk, treasury and capital management | – Risk concentrations | 132 |
| | Consolidated financial statements | – Credit risk mitigation – Note 11 Derivative instruments | 143–145 395–399 |

P

Additional information on counterparty credit risk mitigation is provided in the “Counterparty credit risk” section on pages 55–66 of this report.

Semiannual I The table below provides a breakdown of unsecured and partially or fully secured exposures, including security type, for the categories *Loans* and *Debt securities*.

The total carrying amount of loans increased by USD 3 billion to USD 462 billion in the second half of 2018. This was driven by an increase of USD 5 billion in cash and balances at central banks, mainly resulting from client-driven activity that affected funding consumption by the business divisions, contributing to unsecured exposures. This was partly offset by a decrease of USD 2 billion primarily as a result of lower lending in Global Wealth Management. The total carrying value of debt securities decreased by USD 8 billion to USD 69.9 billion mainly resulting from net transfers out of high-quality government bills and bonds held at fair value into SFTs in Group Asset and Liability Management (Group ALM).^p

Semiannual I

CR3: Credit risk mitigation techniques – overview

| USD million | | Exposures | | | Secured portion of exposures partially or fully secured: | | |
|-----------------|----------------------------|--------------------------------------|---|------------------------|--|---|---|
| | | Exposures unsecured: carrying amount | Exposures partially or fully secured: carrying amount | Total: carrying amount | Exposures secured by collateral | Exposures secured by financial guarantees | Exposures secured by credit derivatives |
| 31.12.18 | | | | | | | |
| 1 | Loans ² | 145,458 | 316,615 | 462,073 | 304,900 | 1,204 | 38 |
| 2 | Debt securities | 69,902 | | 69,902 | | | |
| 3 | Total | 215,360 | 316,615 | 531,975 | 304,900 | 1,204 | 38 |
| 4 | <i>of which: defaulted</i> | <i>412</i> | <i>1,815</i> | <i>2,227</i> | <i>1,215</i> | <i>320</i> | |
| 30.6.18 | | | | | | | |
| 1 | Loans ² | 138,563 | 320,431 | 458,994 | 308,335 | 1,349 | 19 |
| 2 | Debt securities | 77,929 | | 77,929 | | | |
| 3 | Total | 216,492 | 320,431 | 536,923 | 308,335 | 1,349 | 19 |
| 4 | <i>of which: defaulted</i> | <i>667</i> | <i>1,493</i> | <i>2,160</i> | <i>1,055</i> | <i>255</i> | |
| 31.12.17 | | | | | | | |
| 1 | Loans ² | 121,582 | 320,183 | 441,765 | 308,412 | 1,382 | 45 |
| 2 | Debt securities | 74,281 | | 74,281 | | | |
| 3 | Total | 195,864 | 320,183 | 516,046 | 308,412 | 1,382 | 45 |
| 4 | <i>of which: defaulted</i> | <i>737</i> | <i>1,422</i> | <i>2,158</i> | <i>892</i> | <i>295</i> | |

1 Exposures in this table represent carrying values in accordance with the regulatory scope of consolidation. 2 Loan exposure is reported in line with the Pillar 3 definition. Refer to “Credit

risk exposure categories” in this section, for more information on the classification of Loans and Debt securities.

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UBS Group AG consolidated

Standardized approach – credit risk mitigation

Semiannual I The table below illustrates the effect of credit risk mitigation on the calculation of capital requirements under the standardized approach. [p](#)

Semiannual I**CR4: Standardized approach – credit risk exposure and credit risk mitigation (CRM) effects**

| <i>USD million, except where indicated</i> | Exposures | | | Exposures | | | RWA and RWA density | |
|---|---------------------------------|---------------------------------|---------------------------------|-------------------------|--------------------------|------------------|---------------------|-------------|
| | before CCF and CRM ¹ | before CCF and CRM ¹ | before CCF and CRM ¹ | post CCF and CRM | post CCF and CRM | post CCF and CRM | RWA | RWA density |
| | On-balance sheet amount | Off-balance sheet amount | Total | On-balance sheet amount | Off-balance sheet amount | Total | | in % |
| 31.12.18 | | | | | | | | |
| Asset classes² | | | | | | | | |
| 1 Central governments and central banks | 17,859 | | 17,859 | 17,851 | | 17,851 | 746 | 4.2 |
| 2 Banks and securities dealers | 6,749 | 1,179 | 7,928 | 6,733 | 722 | 7,456 | 1,842 | 24.7 |
| 3 Public-sector entities and multilateral development banks | 1,180 | 277 | 1,457 | 1,179 | 55 | 1,235 | 351 | 28.4 |
| 4 Corporates | 6,146 | 4,523 | 10,669 | 6,087 | 722 | 6,810 | 5,058 | 74.3 |
| 5 Retail | 12,786 | 4,230 | 17,016 | 12,437 | 155 | 12,592 | 8,461 | 67.2 |
| 6 Equity | | | | | | | | |
| 7 Other assets | 10,524 | | 10,524 | 10,524 | | 10,524 | 9,513 | 90.4 |
| 8 Total | 55,244 | 10,208 | 65,452 | 54,812 | 1,655 | 56,467 | 25,972 | 46.0 |
| 30.6.18 | | | | | | | | |
| Asset classes² | | | | | | | | |
| 1 Central governments and central banks | 14,287 | | 14,287 | 14,286 | | 14,286 | 494 | 3.5 |
| 2 | 6,285 | 903 | 7,188 | 6,284 | 442 | 6,725 | 1,599 | 23.8 |

| | | | | | | | | | |
|----------------------------------|---------------|--------------|---------------|---------------|--------------|---------------|---------------|-------------|--|
| Banks and securities dealers | | | | | | | | | |
| Public-sector entities and | | | | | | | | | |
| 3 multilateral development banks | 1,555 | 279 | 1,834 | 1,553 | 56 | 1,608 | 450 | 28.0 | |
| 4 Corporates | 5,555 | 3,744 | 9,299 | 5,537 | 439 | 5,976 | 4,236 | 70.9 | |
| 5 Retail | 14,263 | 3,387 | 17,650 | 12,280 | 252 | 12,532 | 8,185 | 65.3 | |
| 6 Equity | | | | | | | | | |
| 7 Other assets | 10,222 | | 10,222 | 10,222 | | 10,222 | 9,345 | 91.4 | |
| 8 Total | 52,167 | 8,314 | 60,480 | 50,161 | 1,188 | 51,349 | 24,309 | 47.3 | |

31.12.17**Asset classes²**

| | | | | | | | | | |
|---------------------------------------|---------------|--------------|---------------|---------------|--------------|---------------|---------------|-------------|--|
| Central governments and central banks | | | | | | | | | |
| 1 | 13,076 | | 13,076 | 13,075 | | 13,075 | 483 | 3.7 | |
| Banks and securities dealers | | | | | | | | | |
| 2 | 5,837 | 1,057 | 6,894 | 5,834 | 554 | 6,389 | 1,514 | 23.7 | |
| Public-sector entities and | | | | | | | | | |
| 3 multilateral development banks | 1,932 | 289 | 2,221 | 1,929 | 143 | 2,072 | 655 | 31.6 | |
| 4 Corporates | 6,416 | 3,808 | 10,225 | 5,964 | 479 | 6,444 | 4,591 | 71.3 | |
| 5 Retail | 14,381 | 3,080 | 17,460 | 12,422 | 171 | 12,593 | 8,183 | 65.0 | |
| 6 Equity | | | | | | | | | |
| 7 Other assets | 10,236 | | 10,236 | 10,236 | | 10,236 | 9,181 | 89.7 | |
| 8 Total | 51,876 | 8,235 | 60,111 | 49,459 | 1,348 | 50,808 | 24,607 | 48.4 | |

1 Exposures in this table represent carrying values in accordance with the regulatory scope of consolidation. 2 The CRM effect is reflected on the original asset class.

p

IRB approach – credit derivatives used as credit risk mitigation

Semiannual I We actively manage the credit risk in our corporate loan portfolios by utilizing credit derivatives. Single-name credit derivatives that fulfill the operational requirements prescribed by FINMA are recognized in the RWA calculation using the PD or rating (and asset class) assigned to the hedge provider. The PD (or rating) substitution is only applied in the RWA calculation when the PD (or rating) of the hedge provider is lower than the PD (or rating) of the obligor. In addition, default correlation between the obligor and hedge provider is taken into account through the double default approach. Credit derivatives with tranching or first-loss protection are recognized through the securitization framework. Refer to the “CCR6: Credit derivatives exposures” table in the “Counterparty credit risk” section on page 66 of this report for notional and fair value information on credit derivatives used as credit risk mitigation. [p](#)

Semiannual I**CR7: IRB – effect on RWA of credit derivatives used as CRM techniques¹**

| <i>USD million</i> | 31.12.18 | | 30.6.18 | | 31.12.17 | |
|--------------------|----------------------------------|---------------|----------------------------------|---------------|----------------------------------|---------------|
| | Pre-credit derivatives RWA | Actual RWA | Pre-credit derivatives RWA | Actual RWA | Pre-credit derivatives RWA | Actual RWA |
| 1 | | | | | | |
| 2 | 2,502 | 2,500 | 2,728 | 2,722 | 2,786 | 2,775 |
| 3 | | | | | | |
| 4 | 5,240 | 5,240 | 4,561 | 4,561 | 2,722 | 2,722 |
| 5 | | | | | | |
| 6 | 798 | 798 | 902 | 902 | 874 | 874 |

| | | | | | | | |
|-----------|---|---------------|---------------|---------------|---------------|---------------|---------------|
| 7 | Corporates: Specialized lending – FIRB | | | | | | |
| 8 | Corporates: Specialized lending – AIRB | 12,172 | 12,172 | 11,319 | 11,319 | 10,273 | 10,273 |
| 9 | Corporates: Other lending – FIRB | | | | | | |
| 10 | Corporates: Other lending – AIRB | 31,083 | 30,612 | 31,960 | 31,487 | 26,832 | 26,055 |
| 11 | Retail: mortgage loans | 26,696 | 26,696 | 24,964 | 24,964 | 23,692 | 23,692 |
| 12 | Retail exposures: qualifying revolving retail (QRRE) | 624 | 624 | 582 | 582 | 579 | 579 |
| 13 | Retail: other Equity positions | 8,377 | 8,377 | 8,420 | 8,420 | 8,626 | 8,626 |
| 14 | (PD/LGD approach) | | | | | | |
| 15 | Total | 87,493 | 87,019 | 85,436 | 84,956 | 76,385 | 75,597 |

1 The CRM effect is reflected on the original asset class.

P

UBS Group AG consolidated

Credit risk under the standardized approach

Annual | The standardized approach is generally applied where it is not possible to use the advanced internal ratings-based (A-IRB) approach. The standardized approach requires banks, where possible, to use risk assessments prepared by external credit assessment institutions (ECAI) or export credit agencies to determine the risk weightings applied to rated counterparties. We use three FINMA-recognized ECAI to determine the risk weights for certain counterparties according to the BCBS-defined asset classes: Standard & Poor's, Moody's Investors Service and Fitch Ratings.

The mapping of external ratings to the standardized approach risk weights is determined by FINMA and published on its website. There were no changes in the ECAI used compared with 31 December 2017.

Debt instruments are risk-weighted in accordance with the specific issue ratings available. In case there is no specific issue rating published by the ECAI, the issuer rating is applied to the senior unsecured claims of that issuer subject to the conditions prescribed by FINMA. For the asset classes Retail, Equity and Other assets, we apply the regulatory prescribed risk weights independent of an external credit rating. **p**

Annual |**CRD: Qualitative disclosures on banks' use of external credit ratings under the standardized approach for credit risk**

| | | 31.12.18 | | |
|---|---|-----------------------|-------------------|-------|
| | | External ratings used | | |
| | Asset classes | Moody's | Standard & Poor's | Fitch |
| 1 | Central governments and central banks | 1 | 1 | 1 |
| 2 | Banks and securities dealers | 1 | 1 | 1 |
| 3 | Public-sector entities and multilateral development banks | 1 | 1 | 1 |
| 4 | Corporates | 1 | 1 | 1 |

p

The table below illustrates the exposures by asset classes and the risk weights applied.

Semiannual I

CR5: Standardized approach – exposures by asset classes and risk weights

USD million

| <i>Risk weight</i> | 0% | 10% | 20% | 35% | 50% | 75% | 100% | 150% | Others | Total credit exposures amount (post CCF and CRM) |
|---|---------------|-----|--------------|--------------|--------------|--------------|---------------|------------|----------|--|
| 31.12.18 | | | | | | | | | | |
| Asset classes | | | | | | | | | | |
| 1 Central governments and central banks | | | | | | | | | | |
| | 17,061 | | 42 | | 24 | | 727 | | | 17,854 |
| 2 Banks and securities dealers | | | 6,259 | | 1,192 | | 4 | 0 | | 7,456 |
| 3 Public-sector entities and multilateral development banks | 101 | | 771 | | 330 | | 30 | 0 | | 1,232 |
| 4 Corporates | | | 1,961 | | 138 | 266 | 4,385 | 2 | | 6,751 |
| 5 Retail | | | | 5,809 | | 1,811 | 4,910 | 120 | | 12,650 |
| 6 Equity | | | | | | | | | | |
| 7 Other assets | 1,010 | | | | | | 9,513 | | | 10,524 |
| 8 Total | 18,172 | | 9,033 | 5,809 | 1,684 | 2,077 | 19,570 | 122 | 0 | 56,467 |
| 9 of which: mortgage loans | | | | 5,809 | | 97 | 778 | | | 6,685 |
| 10 of which: past due ¹ | | | | | | | 112 | | | 112 |

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Asset classes

| | | | | | | | | | | |
|---|--------|--|-------|--|-----|--|-----|--|--|--------|
| 1 Central governments and central banks | 13,717 | | 85 | | 20 | | 471 | | | 14,293 |
| 2 Banks and securities dealers | | | 5,889 | | 831 | | 6 | | | 6,726 |

| | | | | | | | | | | |
|----|---|---------------|--------------|--------------|--------------|--------------|---------------|------------|----------|---------------|
| 3 | Public-sector entities and multilateral development banks | 175 | 972 | 406 | 49 | | | 1,602 | | |
| 4 | Corporates | | 1,873 | 182 | 3,831 | | | 5,886 | | |
| 5 | Retail | | 6,133 | 1,959 | 4,383 | 144 | | 12,619 | | |
| 6 | Equity | | | | | | | | | |
| 7 | Other assets | 877 | | | 9,345 | | | 10,222 | | |
| 8 | Total | 14,769 | 8,819 | 6,133 | 1,439 | 1,959 | 18,085 | 145 | 0 | 51,349 |
| | <i>of which:</i> | | | | | | | | | |
| 9 | <i>mortgage loans</i> | | 6,133 | | 116 | 392 | | | | 6,642 |
| 10 | <i>of which: past due¹</i> | | | | | 109 | | | | 109 |

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Asset classes

| | | | | | | | | | | |
|----|---|---------------|--------------|--------------|--------------|--------------|---------------|------------|----------|---------------|
| 1 | Central governments and central banks | 12,487 | 122 | 21 | 478 | 0 | | 13,107 | | |
| 2 | Banks and securities dealers | | 5,677 | 676 | 25 | | | 6,378 | | |
| 3 | Public-sector entities and multilateral development banks | 215 | 1,183 | 507 | 162 | 0 | | 2,068 | | |
| 4 | Corporates | 69 | 1,958 | 177 | 4,118 | 11 | | 6,333 | | |
| 5 | Retail | | 6,266 | 1,817 | 4,491 | 113 | | 12,687 | | |
| 6 | Equity | | | | | | | | | |
| 7 | Other assets | 1,057 | | | 9,180 | | | 10,236 | | |
| 8 | Total | 13,829 | 8,938 | 6,266 | 1,381 | 1,817 | 18,453 | 124 | 0 | 50,808 |
| | <i>of which:</i> | | | | | | | | | |
| 9 | <i>mortgage loans</i> | | 6,266 | | 156 | 465 | | | | 6,887 |
| 10 | <i>of which: past due¹</i> | | 2 | | 2 | 58 | 16 | | | 79 |

1 Includes mortgage loans.

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Credit risk under internal ratings-based approaches

Annual | We use the A-IRB approach for calculating certain credit risk exposures. Under the A-IRB approach, the required capital for credit risk is quantified through empirical models that we have developed to estimate the probability of default (PD), loss given default (LGD), exposure at default (EAD) and other parameters, subject to FINMA approval. The table below presents an overview of Pillar 3 disclosures that are provided separately in our Annual Report 2018.^p

Annual |**CRE – Internal ratings-based models**

| Pillar 3 disclosure requirement | Annual Report 2018 section | Disclosure | Annual Report 2018 page number |
|---|---------------------------------------|---|---------------------------------------|
| Internal model development, controls and changes | Risk, treasury and capital management | – Risk measurement | 130–132 |
| | | – Credit risk models | 145–151 |
| | | – Key features of our main credit risk models | 146 |
| | | – Risk governance | 123–124 |
| Relationships between risk management and internal audit and independent review of IRB models | Risk, treasury and capital management | – Risk governance | 123–124 |
| | | – Risk measurement | 130–132 |
| Scope and content of the reporting related to credit risk models | Risk, treasury and capital management | – Risk measurement | 130–132 |
| | | – Credit risk – Overview of measurement, monitoring and management techniques | 133 |
| | | – Credit risk models | 145–151 |
| Supervisor approval of applied approaches | Risk, treasury and capital management | – Risk measurement | 130–132 |
| | | – Changes to models and model parameters during the period | 151 |
| | | – Stress testing | 130–132 |
| | | – Key features of our main credit risk models | 146 |

| | | | | |
|--|---------------------------------------|---|--------------------|---------|
| Number of key models used by portfolio and the main differences between models | Risk, treasury and capital management | – | Credit risk models | 145–151 |
| Description of the main characteristics of approved models | Risk, treasury and capital management | – | Credit risk models | 145–151 |

p

Semiannual | The table in this sub-section provides information on credit risk exposures under the A-IRB approach, including the main parameters used in A-IRB models for the calculation of capital requirements, presented by portfolio and PD range. Under the A-IRB approach, the required capital for credit risk is quantified through empirical models that we have developed to estimate the PD, loss given default (LGD), exposure at default (EAD) and other parameters, subject to FINMA approval. The proportion of EAD covered by either the standardized or the A-IRB approach is provided in the “Regulatory exposures and risk-weighted assets” table in section 2 on pages 16–18 of this report.

The “CR6: IRB – Credit risk exposures by portfolio and PD range” table on the following pages provides a breakdown of the key parameters used for calculation of capital requirements under the A-IRB approach, shown by PD range across FINMA defined asset classes.p

As of 31 December 2018, exposures before the application of CCFs decreased by USD 21.6 billion to USD 774.6 billion. This decrease was primarily related to a reduction in Lombard lending in Global Wealth Management, which decreased exposures before CCF and CRM by USD 12.1 billion with a reduction in EAD post-CCF and post-CRM of USD 10 billion. This was partly offset by an increase of USD 2.5 billion on exposures before CCF and CRM and post-CCF and post-CRM, due to the revision of the methodology applied for Lombard lending transactions in Japan. There was a USD 6.5 billion reduction in exposures before CCF and CRM and post-CCF and post-CRM in the asset classes “Central governments and central banks” and “Public-sector entities and multilateral development banks”, reflecting a decrease in high-quality liquid assets (HQLA). Information on credit risk RWA for the third quarter of 2018, including details on movements in RWA, is provided on pages 6–7 in our 30 September 2018 UBS Group AG and significant regulated subsidiaries and sub-groups report for the third quarter of 2018, available under “Pillar 3 disclosures” at www.ubs.com/investors and for the fourth quarter on pages 46–47 of this report.p

CR6: IRB – Credit risk exposures by portfolio and PD range

| <i>USD million, except where indicated</i> | Original on-balance sheet gross exposure | Off-balance sheet exposures pre-CCF | Total exposures pre-CCF | Average CCF in % | EAD post-CCF and post-CRM ¹ | Average PD in % | Number of obligors (in thousands) | Average LGD in % |
|--|--|-------------------------------------|-------------------------|------------------|--|-----------------|-----------------------------------|------------------|
|--|--|-------------------------------------|-------------------------|------------------|--|-----------------|-----------------------------------|------------------|

Central governments and central banks as of 31.12.18

| | | | | | | | | |
|------------------|----------------|-----------|----------------|-----------|----------------|-------------|----------------|-------------|
| 0.00 to <0.15 | 139,551 | 19 | 139,570 | 47 | 139,558 | 0.0 | 0.1 | 29.1 |
| 0.15 to <0.25 | 0 | 0 | 0 | 0 | 0 | 0.2 | <0.1 | 55.2 |
| 0.25 to <0.50 | 3 | 0 | 3 | 10 | 3 | 0.3 | <0.1 | 54.9 |
| 0.50 to <0.75 | 9 | 0 | 9 | 0 | 9 | 0.7 | <0.1 | 97.9 |
| 0.75 to <2.50 | 2 | 0 | 2 | 55 | 1 | 1.0 | <0.1 | 38.3 |
| 2.50 to <10.00 | 4 | 12 | 15 | 52 | 10 | 3.6 | <0.1 | 54.3 |
| 10.00 to <100.00 | 28 | 0 | 28 | 10 | 28 | 13.9 | <0.1 | 5.0 |
| 100.00 (default) | 13 | 37 | 50 | 55 | 23 | | <0.1 | |
| Subtotal | 139,609 | 68 | 139,676 | 52 | 139,632 | 0.0 | 0.2 | 29.1 |

Central governments and central banks as of 30.6.18

| | | | | | | | | |
|------------------|---------|-----|---------|----|---------|------|------|------|
| 0.00 to <0.15 | 144,249 | 126 | 144,376 | 58 | 144,322 | 0.0 | 0.1 | 35.3 |
| 0.15 to <0.25 | 0 | 0 | 0 | 0 | 0 | 0.2 | <0.1 | 61.0 |
| 0.25 to <0.50 | 4 | 0 | 4 | 10 | 4 | 0.3 | <0.1 | 69.3 |
| 0.50 to <0.75 | 5 | 0 | 5 | 0 | 5 | 0.7 | <0.1 | 95.7 |
| 0.75 to <2.50 | 1 | 3 | 4 | 1 | 1 | 1.1 | <0.1 | 36.4 |
| 2.50 to <10.00 | 4 | 3 | 7 | 57 | 6 | 2.7 | <0.1 | 9.7 |
| 10.00 to <100.00 | 37 | 0 | 37 | 50 | 37 | 13.9 | <0.1 | 5.0 |
| 100.00 (default) | 22 | 52 | 74 | 55 | 40 | | <0.1 | |
| Subtotal | 144,322 | 185 | 144,507 | 56 | 144,415 | 0.0 | 0.1 | 35.3 |

Central governments and central banks as of 31.12.17

| | | | | | | | | |
|---------------|---------|-----|---------|----|---------|-----|------|------|
| 0.00 to <0.15 | 131,998 | 129 | 132,127 | 49 | 132,060 | 0.0 | 0.1 | 39.0 |
| 0.15 to <0.25 | 0 | 0 | 0 | 0 | 0 | 0.2 | <0.1 | 61.8 |
| 0.25 to <0.50 | 5 | 0 | 5 | 19 | 5 | 0.3 | <0.1 | 70.0 |
| 0.50 to <0.75 | 4 | 0 | 4 | 0 | 4 | 0.7 | <0.1 | 65.9 |

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| | | | | | | | | |
|---------------------|---------|-----|---------|----|---------|------|------|------|
| 0.75 to <2.50 | 1 | 51 | 52 | 54 | 28 | 1.2 | <0.1 | 6.9 |
| 2.50 to <10.00 | 0 | 3 | 3 | 36 | 1 | 2.7 | <0.1 | 8.0 |
| 10.00 to <100.00 | 0 | 0 | 0 | 0 | 0 | 13.3 | <0.1 | 10.0 |
| 100.00 (default) | 27 | 1 | 28 | 55 | 17 | | <0.1 | |
| Subtotal | 132,035 | 183 | 132,218 | 50 | 132,116 | 0.0 | 0.1 | 39.0 |

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**CR6: IRB – Credit risk exposures by portfolio and PD range
(continued)**

| <i>USD million, except where indicated</i> | Original on-balance sheet gross exposure | Off-balance sheet exposures pre-CCF | Total exposures pre-CCF | Average CCF in % | EAD post-CCF and post-CRM ¹ | Average PD in % | Number of obligors (in thousands) | Average LGD in % | Average maturity |
|--|---|--|-------------------------------|------------------------|---|--------------------|---|------------------------|---------------------|
| Banks and securities dealers as of 31.12.18 | | | | | | | | | |
| 0.00 to <0.15 | 11,855 | 1,805 | 13,659 | 54 | 12,639 | 0.1 | 0.5 | 43.0 | 1 |
| 0.15 to <0.25 | 1,011 | 458 | 1,469 | 46 | 793 | 0.2 | 0.3 | 49.3 | 1 |
| 0.25 to <0.50 | 454 | 391 | 845 | 52 | 570 | 0.4 | 0.2 | 61.8 | 1 |
| 0.50 to <0.75 | 167 | 263 | 430 | 42 | 221 | 0.6 | 0.1 | 62.9 | 1 |
| 0.75 to <2.50 | 974 | 304 | 1,278 | 46 | 866 | 1.7 | 0.2 | 48.3 | 1 |
| 2.50 to <10.00 | 320 | 388 | 708 | 45 | 363 | 4.7 | 0.2 | 52.5 | 1 |
| 10.00 to <100.00 | 0 | 12 | 12 | 28 | 3 | 15.9 | <0.1 | 32.5 | 1 |
| 100.00 (default) | | | | | | | | | |
| Subtotal | 14,780 | 3,621 | 18,401 | 50 | 15,454 | 0.3 | 1.5 | 44.8 | 1 |
| Banks and securities dealers as of 30.6.18 | | | | | | | | | |
| 0.00 to <0.15 | 11,822 | 1,914 | 13,735 | 52 | 12,887 | 0.1 | 0.5 | 42.3 | 1 |
| 0.15 to <0.25 | 1,097 | 693 | 1,790 | 52 | 1,396 | 0.2 | 0.3 | 48.4 | 1 |
| 0.25 to <0.50 | 337 | 528 | 866 | 53 | 569 | 0.4 | 0.2 | 56.3 | 1 |
| 0.50 to <0.75 | 116 | 307 | 423 | 44 | 182 | 0.5 | 0.1 | 56.1 | 1 |
| 0.75 to <2.50 | 1,193 | 599 | 1,793 | 37 | 1,059 | 1.5 | 0.2 | 48.1 | 1 |
| 2.50 to <10.00 | 209 | 292 | 499 | 46 | 277 | 5.3 | 0.2 | 52.4 | 1 |
| 10.00 to <100.00 | 1 | 16 | 17 | 26 | 5 | 15.7 | <0.1 | 16.2 | 0 |

| | | | | | | | | |
|--|--------|-------|--------|----|--------|------|------|------|
| 100.00 (default) Subtotal | 14,774 | 4,348 | 19,123 | 49 | 16,376 | 0.2 | 1.5 | 44.0 |
| Banks and securities dealers as of 31.12.17 | | | | | | | | |
| 0.00 to <0.15 | 8,359 | 3,204 | 11,563 | 47 | 9,832 | 0.0 | 0.5 | 40.6 |
| 0.15 to <0.25 | 801 | 681 | 1,481 | 46 | 952 | 0.2 | 0.3 | 46.9 |
| 0.25 to <0.50 | 371 | 293 | 664 | 37 | 499 | 0.4 | 0.2 | 66.8 |
| 0.50 to <0.75 | 230 | 246 | 476 | 34 | 271 | 0.6 | 0.1 | 64.3 |
| 0.75 to <2.50 | 716 | 568 | 1,284 | 40 | 665 | 1.2 | 0.2 | 61.4 |
| 2.50 to <10.00 | 229 | 229 | 458 | 20 | 221 | 4.4 | 0.2 | 65.1 |
| 10.00 to <100.00 | 33 | 7 | 40 | 39 | 34 | 12.3 | <0.1 | 7.6 |
| 100.00 (default) Subtotal | 10,739 | 5,227 | 15,967 | 43 | 12,474 | 0.3 | 1.4 | 44.1 |

**CR6: IRB – Credit risk exposures by portfolio and PD range
(continued)**

USD million, except where indicated

| | Original on-balance sheet gross exposure | Off-balance sheet exposures pre-CCF | Total exposures pre-CCF | Average CCF in % | EAD post-CCF and post-CRM ¹ PD in % | Average Number of obligors (in thousands) | Average LGD in % |
|--|--|-------------------------------------|-------------------------|------------------|--|---|------------------|
|--|--|-------------------------------------|-------------------------|------------------|--|---|------------------|

Public-sector entities, multilateral development banks as of 31.12.18

| | | | | | | | | |
|------------------|--------------|--------------|--------------|-----------|--------------|------------|----------------|-------------|
| 0.00 to <0.15 | 6,816 | 909 | 7,725 | 19 | 6,990 | 0.0 | 0.4 | 37.2 |
| 0.15 to <0.25 | 350 | 221 | 571 | 12 | 377 | 0.2 | 0.2 | 29.9 |
| 0.25 to <0.50 | 581 | 332 | 913 | 24 | 662 | 0.3 | 0.2 | 27.4 |
| 0.50 to <0.75 | 44 | 1 | 44 | 28 | 44 | 0.6 | <0.1 | 31.7 |
| 0.75 to <2.50 | 1 | 3 | 5 | 90 | 4 | 1.1 | <0.1 | 17.8 |
| 2.50 to <10.00 | 5 | 20 | 25 | 53 | 16 | 2.8 | <0.1 | 5.5 |
| 10.00 to <100.00 | | | | | | | | |
| 100.00 (default) | | | | | | | | |
| Subtotal | 7,797 | 1,487 | 9,284 | 20 | 8,093 | 0.1 | 0.8 | 36.0 |

Public-sector entities, multilateral development banks as of 30.6.18

| | | | | | | | | |
|------------------|--------|-------|--------|----|--------|-----|------|------|
| 0.00 to <0.15 | 10,434 | 933 | 11,368 | 19 | 10,613 | 0.0 | 0.4 | 36.3 |
| 0.15 to <0.25 | 334 | 100 | 434 | 14 | 348 | 0.2 | 0.2 | 32.0 |
| 0.25 to <0.50 | 560 | 313 | 872 | 26 | 641 | 0.3 | 0.2 | 26.4 |
| 0.50 to <0.75 | 45 | 4 | 49 | 11 | 45 | 0.6 | <0.1 | 27.0 |
| 0.75 to <2.50 | 5 | 3 | 8 | 81 | 7 | 1.6 | <0.1 | 10.5 |
| 2.50 to <10.00 | 1 | 4 | 6 | 31 | 2 | 2.8 | <0.1 | 22.9 |
| 10.00 to <100.00 | | | | | | | | |
| 100.00 (default) | | | | | | | | |
| Subtotal | 11,380 | 1,357 | 12,736 | 20 | 11,657 | 0.0 | 0.8 | 35.6 |

Public-sector entities, multilateral development banks as of 31.12.17

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| | | | | | | | | |
|--|--------|-------|--------|----|--------|-----|------|------|
| 0.00 to <0.15 | 10,349 | 1,030 | 11,380 | 19 | 10,543 | 0.0 | 0.3 | 36.4 |
| 0.15 to <0.25 | 362 | 259 | 622 | 11 | 391 | 0.2 | 0.1 | 30.8 |
| 0.25 to <0.50 | 572 | 340 | 912 | 28 | 666 | 0.3 | 0.2 | 17.2 |
| 0.50 to <0.75 | 50 | 3 | 52 | 12 | 50 | 0.6 | <0.1 | 17.8 |
| 0.75 to <2.50 | 2 | 3 | 4 | 99 | 4 | 1.3 | <0.1 | 11.8 |
| 2.50 to <10.00 | 3 | 39 | 42 | 98 | 41 | 2.7 | <0.1 | 8.8 |
| 10.00 to <100.00 100.00 (default) | | | | | | | | |
| Subtotal | 11,338 | 1,674 | 13,012 | 21 | 11,695 | 0.1 | 0.7 | 34.9 |

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**CR6: IRB – Credit risk exposures by portfolio and PD range
(continued)**

USD million, except where indicated

| | Original on-balance sheet gross exposure | Off-balance sheet exposures pre-CCF | Total exposures pre-CCF | Average CCF in % | EAD post-CCF and post-CRM ¹ | Average PD in % | Number of obligors (in thousands) | Average LGD in % | Average |
|--|--|-------------------------------------|-------------------------|------------------|--|-----------------|-----------------------------------|------------------|---------|
|--|--|-------------------------------------|-------------------------|------------------|--|-----------------|-----------------------------------|------------------|---------|

**Corporates:
specialized
lending as
of 31.12.18**

| | | | | | | | | |
|------------------|---------------|--------------|---------------|-----------|---------------|------------|------------|-------------|
| 0.00 to <0.15 | 1,853 | 327 | 2,180 | 71 | 2,087 | 0.1 | 0.4 | 13.5 |
| 0.15 to <0.25 | 994 | 161 | 1,155 | 77 | 1,118 | 0.2 | 0.3 | 18.3 |
| 0.25 to <0.50 | 3,712 | 2,006 | 5,718 | 40 | 4,496 | 0.4 | 0.6 | 30.9 |
| 0.50 to <0.75 | 4,446 | 2,875 | 7,321 | 34 | 5,360 | 0.6 | 0.6 | 32.1 |
| 0.75 to <2.50 | 7,379 | 2,467 | 9,846 | 36 | 8,266 | 1.3 | 1.5 | 33.7 |
| 2.50 to <10.00 | 1,195 | 289 | 1,483 | 64 | 1,381 | 3.3 | 0.4 | 40.5 |
| 10.00 to <100.00 | | | | | | | | |
| 100.00 (default) | 232 | 46 | 278 | 54 | 150 | | 0.1 | |
| Subtotal | 19,810 | 8,171 | 27,981 | 40 | 22,858 | 1.6 | 3.8 | 30.6 |

**Corporates:
specialized
lending as
of 30.6.18**

| | | | | | | | | |
|------------------|-------|-------|-------|----|-------|------|------|------|
| 0.00 to <0.15 | 1,157 | 401 | 1,559 | 57 | 1,385 | 0.1 | 0.3 | 14.2 |
| 0.15 to <0.25 | 1,061 | 207 | 1,269 | 76 | 1,220 | 0.2 | 0.3 | 18.6 |
| 0.25 to <0.50 | 4,015 | 2,530 | 6,545 | 46 | 5,150 | 0.4 | 0.6 | 30.5 |
| 0.50 to <0.75 | 3,736 | 2,200 | 5,935 | 37 | 4,483 | 0.6 | 0.6 | 33.8 |
| 0.75 to <2.50 | 7,723 | 2,198 | 9,921 | 39 | 8,570 | 1.4 | 1.7 | 32.9 |
| 2.50 to <10.00 | 1,426 | 326 | 1,752 | 56 | 1,608 | 3.5 | 0.4 | 38.6 |
| 10.00 to <100.00 | 2 | 0 | 2 | 25 | 2 | 11.0 | <0.1 | 10.0 |
| 100.00 (default) | 240 | 25 | 265 | 54 | 115 | | <0.1 | |

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| | | | | | | | | |
|---|--------|-------|--------|----|--------|------|------|------|
| Subtotal | 19,361 | 7,888 | 27,249 | 43 | 22,534 | 1.5 | 3.9 | 31.0 |
| Corporates: specialized lending as of 31.12.17 | | | | | | | | |
| 0.00 to <0.15 | 1,157 | 457 | 1,614 | 62 | 1,439 | 0.1 | 0.3 | 16.7 |
| 0.15 to <0.25 | 886 | 356 | 1,243 | 72 | 1,144 | 0.2 | 0.3 | 19.6 |
| 0.25 to <0.50 | 3,947 | 2,952 | 6,899 | 35 | 4,982 | 0.4 | 0.6 | 28.1 |
| 0.50 to <0.75 | 4,391 | 2,141 | 6,532 | 33 | 5,018 | 0.6 | 0.6 | 31.5 |
| 0.75 to <2.50 | 8,015 | 2,271 | 10,286 | 40 | 8,884 | 1.4 | 1.7 | 30.8 |
| 2.50 to <10.00 | 1,464 | 332 | 1,796 | 70 | 1,686 | 3.2 | 0.4 | 35.8 |
| 10.00 to <100.00 | 6 | 0 | 6 | 43 | 6 | 11.7 | <0.1 | 16.0 |
| 100.00 (default) | 228 | 20 | 248 | 67 | 137 | | <0.1 | |
| Subtotal | 20,094 | 8,530 | 28,624 | 40 | 23,296 | 1.6 | 3.9 | 29.4 |

**CR6: IRB – Credit risk exposures by portfolio and PD range
(continued)**

USD million, except where indicated

| | Original on-balance sheet gross exposure | Off-balance sheet exposures pre-CCF | Total exposures pre-CCF | Average CCF in % | EAD post-CCF and post-CRM ¹ | Average PD in % | Number of obligors (in thousands) | Average LGD in % | Average |
|--|--|-------------------------------------|-------------------------|------------------|--|-----------------|-----------------------------------|------------------|---------|
|--|--|-------------------------------------|-------------------------|------------------|--|-----------------|-----------------------------------|------------------|---------|

**Corporates:
other
lending as
of 31.12.18**

| | | | | | | | | |
|------------------|---------------|---------------|---------------|-----------|---------------|-------------|-------------|-------------|
| 0.00 to <0.15 | 18,566 | 21,196 | 39,763 | 37 | 20,917 | 0.0 | 3.9 | 36.7 |
| 0.15 to <0.25 | 4,347 | 6,500 | 10,847 | 37 | 6,099 | 0.2 | 1.6 | 33.4 |
| 0.25 to <0.50 | 3,604 | 4,593 | 8,197 | 40 | 5,328 | 0.4 | 2.5 | 30.2 |
| 0.50 to <0.75 | 3,111 | 2,516 | 5,627 | 44 | 4,204 | 0.6 | 2.6 | 37.8 |
| 0.75 to <2.50 | 7,481 | 6,155 | 13,637 | 41 | 10,142 | 1.4 | 11.4 | 26.4 |
| 2.50 to <10.00 | 9,116 | 7,861 | 16,977 | 39 | 12,321 | 3.4 | 4.8 | 18.1 |
| 10.00 to <100.00 | 297 | 285 | 582 | 53 | 449 | 15.3 | 0.1 | 16.7 |
| 100.00 (default) | 1,385 | 409 | 1,794 | 42 | 1,178 | | 0.7 | |
| Subtotal | 47,908 | 49,516 | 97,424 | 39 | 60,639 | 3.1 | 27.5 | 30.1 |

**Corporates:
other
lending as
of 30.6.18**

| | | | | | | | | |
|------------------|--------|--------|--------|----|--------|------|------|------|
| 0.00 to <0.15 | 17,771 | 21,572 | 39,343 | 37 | 19,778 | 0.0 | 3.9 | 34.5 |
| 0.15 to <0.25 | 5,012 | 6,667 | 11,679 | 39 | 6,399 | 0.2 | 1.7 | 34.3 |
| 0.25 to <0.50 | 3,267 | 4,155 | 7,422 | 41 | 4,811 | 0.4 | 2.6 | 30.3 |
| 0.50 to <0.75 | 3,337 | 2,744 | 6,080 | 33 | 4,221 | 0.6 | 2.7 | 38.8 |
| 0.75 to <2.50 | 7,478 | 5,729 | 13,207 | 41 | 9,139 | 1.4 | 11.5 | 28.6 |
| 2.50 to <10.00 | 10,065 | 11,919 | 21,986 | 34 | 14,171 | 3.4 | 4.9 | 19.2 |
| 10.00 to <100.00 | 346 | 427 | 773 | 47 | 553 | 16.1 | 0.1 | 15.1 |
| 100.00 (default) | 1,261 | 255 | 1,517 | 41 | 1,060 | | 0.6 | |

| | | | | | | | | |
|---|--------|--------|---------|----|--------|------|------|------|
| Subtotal | 48,536 | 53,469 | 102,007 | 37 | 60,132 | 3.0 | 28.0 | 29.8 |
| Corporates: other lending as of 31.12.17 | | | | | | | | |
| 0.00 to <0.15 | 14,251 | 21,956 | 36,207 | 36 | 16,805 | 0.1 | 2.2 | 33.5 |
| 0.15 to <0.25 | 5,382 | 6,684 | 12,066 | 38 | 5,621 | 0.2 | 1.1 | 33.3 |
| 0.25 to <0.50 | 3,494 | 4,633 | 8,127 | 39 | 5,087 | 0.4 | 1.8 | 28.1 |
| 0.50 to <0.75 | 3,196 | 3,148 | 6,344 | 35 | 4,444 | 0.6 | 1.7 | 27.1 |
| 0.75 to <2.50 | 7,150 | 6,424 | 13,575 | 40 | 9,759 | 1.4 | 8.0 | 23.0 |
| 2.50 to <10.00 | 10,695 | 7,576 | 18,271 | 42 | 13,611 | 3.4 | 4.3 | 13.9 |
| 10.00 to <100.00 | 352 | 437 | 789 | 54 | 561 | 14.8 | 0.1 | 16.5 |
| 100.00 (default) | 1,313 | 237 | 1,551 | 46 | 1,091 | | 0.5 | |
| Subtotal | 45,833 | 51,096 | 96,930 | 38 | 56,979 | 3.2 | 19.8 | 25.9 |

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**CR6: IRB – Credit risk exposures by portfolio and PD range
(continued)**

USD million, except where indicated

| | Original on-balance sheet gross exposure | Off-balance sheet exposures pre-CCF | Total exposures pre-CCF | Average CCF in % | EAD post-CCF and post-CRM ¹ | Average PD in % | Number of obligors (in thousands) | Average LGD in % | Average maturity in y |
|--|--|-------------------------------------|-------------------------|------------------|--|-----------------|-----------------------------------|------------------|-----------------------|
|--|--|-------------------------------------|-------------------------|------------------|--|-----------------|-----------------------------------|------------------|-----------------------|

**Retail:
residential mortgages
as of
31.12.18**

| | | | | | | | | |
|------------------|----------------|--------------|----------------|-----------|----------------|-------------|--------------|-------------|
| 0.00 to <0.15 | 62,193 | 1,272 | 63,465 | 57 | 62,916 | 0.1 | 129.5 | 19.4 |
| 0.15 to <0.25 | 13,409 | 229 | 13,638 | 69 | 13,567 | 0.2 | 20.7 | 23.3 |
| 0.25 to <0.50 | 20,155 | 479 | 20,634 | 81 | 20,544 | 0.4 | 27.8 | 24.2 |
| 0.50 to <0.75 | 13,276 | 425 | 13,701 | 88 | 13,649 | 0.6 | 15.4 | 24.5 |
| 0.75 to <2.50 | 21,252 | 1,318 | 22,570 | 78 | 22,278 | 1.3 | 27.1 | 28.3 |
| 2.50 to <10.00 | 7,608 | 260 | 7,868 | 84 | 7,825 | 4.3 | 10.2 | 25.1 |
| 10.00 to <100.00 | 912 | 25 | 937 | 84 | 933 | 15.3 | 1.2 | 24.4 |
| 100.00 (default) | 723 | 5 | 729 | 69 | 702 | | 1.1 | |
| Subtotal | 139,529 | 4,013 | 143,542 | 73 | 142,413 | 1.2 | 232.8 | 22.7 |

**Retail:
residential mortgages
as of
30.6.18**

| | | | | | | | | |
|------------------|--------|-------|--------|----|--------|------|-------|------|
| 0.00 to <0.15 | 59,794 | 1,278 | 61,072 | 56 | 60,505 | 0.1 | 127.3 | 18.7 |
| 0.15 to <0.25 | 13,192 | 289 | 13,481 | 73 | 13,363 | 0.2 | 20.8 | 22.6 |
| 0.25 to <0.50 | 19,338 | 468 | 19,808 | 75 | 19,643 | 0.4 | 27.9 | 23.6 |
| 0.50 to <0.75 | 13,358 | 393 | 13,751 | 78 | 13,621 | 0.6 | 15.2 | 24.2 |
| 0.75 to <2.50 | 21,538 | 1,260 | 22,797 | 76 | 22,436 | 1.3 | 27.4 | 28.3 |
| 2.50 to <10.00 | 7,650 | 408 | 8,058 | 81 | 7,943 | 4.3 | 9.9 | 27.1 |
| 10.00 to <100.00 | 942 | 17 | 959 | 75 | 951 | 15.7 | 1.2 | 26.2 |

| | | | | | | | | |
|---------------------|---------|-------|---------|----|---------|-----|-------|------|
| 100.00 (default) | 736 | 3 | 739 | 60 | 712 | | 1.1 | |
| Subtotal | 136,547 | 4,116 | 140,663 | 70 | 139,175 | 1.2 | 230.8 | 22.4 |

**Retail:
residential
mortgages
as of
31.12.17**

| | | | | | | | | |
|---------------------|---------|-------|---------|----|---------|------|-------|------|
| 0.00 to <0.15 | 53,250 | 758 | 54,008 | 75 | 53,818 | 0.1 | 127.4 | 17.5 |
| 0.15 to <0.25 | 14,112 | 243 | 14,356 | 83 | 14,277 | 0.2 | 21.1 | 22.1 |
| 0.25 to <0.50 | 21,876 | 388 | 22,264 | 87 | 22,167 | 0.4 | 25.4 | 23.7 |
| 0.50 to <0.75 | 14,923 | 339 | 15,261 | 89 | 15,178 | 0.6 | 14.1 | 24.5 |
| 0.75 to <2.50 | 23,620 | 1,233 | 24,854 | 77 | 24,504 | 1.3 | 27.5 | 29.2 |
| 2.50 to <10.00 | 7,277 | 225 | 7,502 | 87 | 7,425 | 4.3 | 10.7 | 26.7 |
| 10.00 to <100.00 | 632 | 16 | 648 | 91 | 644 | 15.9 | 0.8 | 22.7 |
| 100.00 (default) | 719 | 4 | 723 | 83 | 696 | | 1.0 | |
| Subtotal | 136,409 | 3,206 | 139,615 | 80 | 138,709 | 1.2 | 228.1 | 22.4 |

**CR6: IRB – Credit risk exposures by portfolio and PD range
(continued)**

USD million, except where indicated

| | Original on-balance sheet gross exposure | Off-balance sheet exposures pre-CCF | Total exposures pre-CCF | Average CCF in % | EAD post-CCF and post-CRM ¹ | Average PD in % | Number of obligors (in thousands) | Average LGD in % | Average maturity in years |
|--|--|-------------------------------------|-------------------------|------------------|--|-----------------|-----------------------------------|------------------|---------------------------|
|--|--|-------------------------------------|-------------------------|------------------|--|-----------------|-----------------------------------|------------------|---------------------------|

**Retail:
qualifying revolving retail exposures (QRRE) as of 31.12.18³**

| | | | | | | | | |
|------------------|-------|-------|-------|--|-------|-----|-------|------|
| 0.00 to <0.15 | | | | | | | | |
| 0.15 to <0.25 | | | | | | | | |
| 0.25 to <0.50 | | | | | | | | |
| 0.50 to <0.75 | | | | | | | | |
| 0.75 to <2.50 | 103 | 348 | 450 | | 142 | 1.7 | 34.6 | 47.0 |
| 2.50 to <10.00 | 1,166 | 5,213 | 6,378 | | 1,614 | 2.7 | 860.5 | 42.0 |
| 10.00 to <100.00 | | | | | | | | |
| 100.00 (default) | 26 | 0 | 26 | | 16 | | 21.4 | |
| Subtotal | 1,294 | 5,560 | 6,855 | | 1,772 | 3.5 | 916.5 | 42.0 |

**Retail:
qualifying revolving retail exposures (QRRE) as of 30.6.18³**

| | | | | | | | | |
|---------------|-----|-----|-----|--|-----|-----|------|------|
| 0.00 to <0.15 | | | | | | | | |
| 0.15 to <0.25 | | | | | | | | |
| 0.25 to <0.50 | | | | | | | | |
| 0.50 to <0.75 | | | | | | | | |
| | 110 | 329 | 438 | | 152 | 1.7 | 35.8 | 47.0 |

| | | | | | | | | |
|---------------------|-------|-------|-------|-------|-----|-------|------|--|
| 0.75 to <2.50 | | | | | | | | |
| 2.50 to <10.00 | 1,073 | 4,879 | 5,953 | 1,487 | 2.7 | 827.2 | 42.0 | |
| 10.00 to <100.00 | | | | | | | | |
| 100.00 (default) | 34 | 0 | 34 | 15 | | 25.3 | | |
| Subtotal | 1,218 | 5,208 | 6,425 | 1,655 | 3.5 | 888.3 | 42.1 | |

**Retail:
qualifying
revolving
retail
exposures
(QRRE) as
of
31.12.17³**

| | | | | | | | | |
|---------------------|-------|-------|-------|-------|-----|-------|------|--|
| 0.00 to <0.15 | | | | | | | | |
| 0.15 to <0.25 | | | | | | | | |
| 0.25 to <0.50 | | | | | | | | |
| 0.50 to <0.75 | | | | | | | | |
| 0.75 to <2.50 | 99 | 338 | 437 | 138 | 1.7 | 34.1 | 47.0 | |
| 2.50 to <10.00 | 1,081 | 4,928 | 6,009 | 1,514 | 2.7 | 818.5 | 42.0 | |
| 10.00 to <100.00 | | | | | | | | |
| 100.00 (default) | 26 | 0 | 26 | 7 | | 21.8 | | |
| Subtotal | 1,206 | 5,266 | 6,472 | 1,659 | 3.0 | 874.4 | 42.2 | |

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**CR6: IRB – Credit risk exposures by portfolio and PD range
(continued)**

USD

million, except where indicated

| | Original on-balance sheet gross exposure | Off-balance sheet exposures pre-CCF | Total exposures pre-CCF | Average CCF in % | EAD post-CCF and post-CRM ¹ | Average PD in % | Number of obligors (in thousands) | Average LGD in % | Average maturity in years |
|--|--|-------------------------------------|-------------------------|------------------|--|-----------------|-----------------------------------|------------------|---------------------------|
|--|--|-------------------------------------|-------------------------|------------------|--|-----------------|-----------------------------------|------------------|---------------------------|

**Retail:
other
retail as
of
31.12.18**

| | | | | | | | | |
|------------------|---------|---------|---------|----|---------|------|--------------------|------|
| 0.00 to <0.15 | 104,165 | 202,715 | 306,881 | 13 | 131,207 | 0.0 | 195.3 | 30.7 |
| 0.15 to <0.25 | 2,718 | 4,373 | 7,091 | 15 | 3,361 | 0.2 | 6.2 | 26.3 |
| 0.25 to <0.50 | 2,256 | 2,434 | 4,690 | 13 | 2,567 | 0.4 | 2.6 | 32.1 |
| 0.50 to <0.75 | 1,283 | 1,519 | 2,803 | 13 | 1,474 | 0.6 | 1.8 | 28.7 |
| 0.75 to <2.50 | 2,193 | 6,013 | 8,207 | 14 | 3,140 | 1.1 | 48.1 | 29.4 |
| 2.50 to <10.00 | 680 | 850 | 1,530 | 12 | 782 | 4.2 | 1.5 | 31.9 |
| 10.00 to <100.00 | 156 | 89 | 245 | 19 | 173 | 16.4 | 0.7 | 28.1 |
| 100.00 (default) | 27 | 8 | 34 | 2 | 22 | | <0.1 | |
| Subtotal | 113,478 | 218,002 | 331,480 | 13 | 142,726 | 0.1 | 256.2 ⁴ | 30.6 |

**Retail:
other
retail as
of
30.6.18**

| | | | | | | | | |
|----------------|---------|---------|---------|----|---------|------|-------|------|
| 0.00 to <0.15 | 107,920 | 207,902 | 315,823 | 15 | 139,021 | 0.0 | 189.2 | 31.0 |
| 0.15 to <0.25 | 2,964 | 5,753 | 8,717 | 13 | 3,684 | 0.2 | 4.7 | 29.8 |
| 0.25 to <0.50 | 1,352 | 3,112 | 4,464 | 11 | 1,704 | 0.4 | 3.1 | 31.9 |
| 0.50 to <0.75 | 1,058 | 2,322 | 3,380 | 11 | 1,308 | 0.6 | 1.7 | 32.2 |
| 0.75 to <2.50 | 2,296 | 4,142 | 6,438 | 20 | 3,136 | 1.2 | 45.2 | 31.7 |
| 2.50 to <10.00 | 620 | 3,173 | 3,794 | 11 | 977 | 4.3 | 2.1 | 30.4 |
| | 175 | 696 | 871 | 20 | 312 | 16.9 | 3.1 | 23.9 |

| | | | | | | | | |
|--|---------|---------|---------|----|---------|-----|--------------------|------|
| 10.00 to <100.00 100.00 (default) | 96 | 7 | 103 | 0 | 11 | | <0.1 | |
| Subtotal | 116,482 | 227,108 | 343,590 | 15 | 150,153 | 0.1 | 249.0 ⁴ | 31.0 |

**Retail:
other
retail as
of
31.12.17**

| | | | | | | | | |
|---------------------|---------|---------|---------|----|---------|------|-------|------|
| 0.00 to <0.15 | 107,538 | 98,469 | 206,007 | 25 | 132,504 | 0.0 | 206.2 | 30.5 |
| 0.15 to <0.25 | 2,061 | 2,318 | 4,380 | 26 | 2,670 | 0.2 | 5.5 | 27.4 |
| 0.25 to <0.50 | 1,762 | 1,694 | 3,456 | 19 | 2,084 | 0.4 | 3.6 | 29.7 |
| 0.50 to <0.75 | 780 | 878 | 1,658 | 27 | 1,017 | 0.6 | 2.0 | 35.9 |
| 0.75 to <2.50 | 3,121 | 3,234 | 6,355 | 25 | 3,933 | 1.1 | 55.9 | 34.3 |
| 2.50 to <10.00 | 763 | 901 | 1,664 | 22 | 963 | 3.7 | 2.5 | 35.7 |
| 10.00 to <100.00 | 177 | 609 | 785 | 20 | 298 | 16.8 | 3.6 | 27.5 |
| 100.00 (default) | 91 | 9 | 100 | 5 | 17 | | <0.1 | |
| Subtotal | 116,293 | 108,113 | 224,406 | 25 | 143,486 | 0.1 | 279.3 | 30.6 |

| | | | | | | | | | |
|---------------------------|----------------|----------------|----------------|-----------|----------------|------------|----------------------------|-------------|------------|
| Total 31.12.18 | 484,205 | 290,438 | 774,644 | 20 | 533,587 | 0.8 | 1,439.3⁴ | 28.6 | 1.1 |
| Total 30.6.18 | 492,621 | 303,679 | 796,301 | 21 | 546,097 | 0.8 | 1,402.6⁴ | 30.3 | 1.1 |
| Total 31.12.17 | 473,948 | 183,295 | 657,243 | 30 | 520,414 | 0.8 | 1,407.7 | 30.4 | 1.1 |

1 CRM through financial collateral is considered in the EAD post-CCF and post-CRM, but not in the calculation with the Pillar 3 guidance, provisions are only provided for the subtotals by asset class. With the implementation in January 2018, this column includes expected credit loss allowances related to stages 1 - 3 for exposures using ratings-based approaches. 3 For the calculation of column "EAD post-CCF and post-CRM," a balance sheet approach is used for CCF approach. The EAD is calculated by multiplying the on-balance sheet exposure with a fixed factor for Lombard loan facilities in the region Americas that are entirely undrawn.

p

Credit risk risk-weighted assets under the A-IRB approach

This section provides disclosures on the quarterly credit risk RWA development for the credit risk measured under the A-IRB approach. The table below provides definitions of components driving the RWA as applied in the table on the following page.

Definitions of credit risk and counterparty credit risk RWA movement table components for CR8 and CCR7

References in the table below link to the line numbers provided in the movement tables on pages 46 and 57 of this report.

| Reference | Description | Definition |
|------------------|---|---|
| 2 | Asset size | Movements arising in the ordinary course of business, such as new transactions, sales and write-offs. |
| 3 | Asset quality / Credit quality of counterparties | Movements resulting from changes in the underlying credit quality of counterparties. These are caused by changes to risk parameters, such as counterparty ratings, loss given default estimates or credit hedges. |
| 4 | Model updates | Movements arising from the implementation of new models and from parameter changes to existing models. The RWA effect of model updates is estimated based on the portfolio at the time of the change. |
| 5 | Methodology and policy | Movements due to methodological changes in calculations driven by regulatory policy changes, including revisions to existing regulations, new regulations and add-ons mandated by the regulator. The effect of methodology and policy changes on RWA is estimated based on the portfolio at the time of the change. |
| 6 | Acquisitions and disposals | Movements as a result of disposal or acquisition of business operations, quantified based on the credit risk exposures as of the end of the quarter preceding a disposal or following an acquisition. Purchases and sales of exposures in the ordinary course of business are reflected under asset size. |
| 7 | Foreign exchange movements | Movements as a result of exchange rate changes of the transaction currencies against the US dollar. |
| 8 | Other | Movements due to changes that cannot be attributed to any other category. |

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Development in the fourth quarter of 2018

Quarterly | Credit risk RWA under the advanced internal ratings-based (A-IRB) approach increased by USD 1.3 billion to USD 87.0 billion as of 31 December 2018. As presented in the “CR8: RWA flow statements of credit risk exposures under IRB” table below, the RWA increase of USD 2.7 billion from model updates was primarily driven by the continued phasing-in of RWA increases related to: probability of default (PD) and loss given default (LGD) changes from the implementation of revised models for Swiss residential mortgages and income-producing real estate; the new LGD model for unsecured financing and commercial self-used real estate; and calibration of aircraft leasing PD and LGD parameters, together resulting in an increase of USD 2.3 billion in Personal & Corporate Banking and USD 0.3 billion in Global Wealth Management. In addition, regulatory add-ons increased RWA by USD 0.3 billion due to a higher internal ratings-based (IRB) multiplier on Investment Bank exposures to corporates. p

Quarterly |

CR8: RWA flow statements of credit risk exposures under IRB

| <i>USD million</i> | | For the quarter ended 31.12.18 | For the quarter ended 30.9.18 | For the quarter ended 30.6.18 | For the quarter ended 31.3.18 |
|--------------------|---|---|--|--|--|
| 1 | RWA as of the beginning of the quarter | 85,677 | 84,956 | 80,988 | 75,597 |
| 2 | Asset size | (868) | (1,472) | 3,614 | 1,109 |
| 3 | Asset quality | (480) | (955) | (850) | 1,153 |
| 4 | Model updates | 2,668 | 3,067 | 2,451 | 10,290 |
| 5 | Methodology and policy | 139 | 332 | 625 | (8,303) |
| 5a | <i>of which: regulatory add-ons</i> | 277 | 332 | 306 | (8,233) |
| 6 | Acquisitions and disposals | 42 | 0 | 0 | 0 |
| 7 | Foreign exchange movements | (159) | 359 | (2,175) | 1,142 |
| 8 | Other | 0 | (611) | 303 | 0 |
| 9 | RWA as of the end of the quarter | 87,019 | 85,677 | 84,956 | 80,988 |

p

Backtesting

Annual | More information on backtesting of credit models is provided on page 145–151 of our Annual Report 2018. [p](#)

CR9: IRB – Backtesting of probability of default (PD) per portfolio

| PD range | External rating equivalent | External rating equivalent | External rating equivalent | Arithmetic average | Number of obligors | Defaulted obligors | of w | |
|------------------|----------------------------|----------------------------|----------------------------|--------------------------------|--------------------|--------------------|-------|---|
| | Moody's | Standard & Poor's | Fitch | Weighted average obligors in % | PD (in thousands) | End of the year | of w | |
| | | | | PD in % | by previous year | of the year | defa | |
| | | | | | in % | of the year | obl | |
| | | | | | | | i | |
| 0.00 to <0.15 | Aaa to A3 | AAA to A– | AAA to AA– | 0.0 | 0.0 | < 0.1 | < 0.1 | 0 |
| 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | BBB+ to BBB | 0.2 | 0.2 | < 0.1 | < 0.1 | 0 |
| 0.25 to <0.50 | Baa3 | BBB– | BBB– | 0.3 | 0.3 | < 0.1 | < 0.1 | 0 |
| 0.50 to <0.75 | Ba1 | BB+ | BB+ | 0.7 | 0.6 | < 0.1 | < 0.1 | 0 |
| 0.75 to <2.50 | Baa2 to Ba3 | BB to BB– | BB to BB– | 1.2 | 1.5 | < 0.1 | < 0.1 | 0 |
| 2.50 to <10.00 | B1 to B3 | B+ to B– | B+ to B– | 2.7 | 3.3 | < 0.1 | < 0.1 | 0 |
| 10.00 to <100.00 | Caa to C | CCC to C | CCC to C | 13.3 | 13.0 | < 0.1 | < 0.1 | 0 |
| Subtotal | | | | 0.0 | 1.5 | < 0.1 | < 0.1 | 0 |

Central governments and central banks as of 31.12.17

| | | | | | | | | |
|---------------|--------------|-------------|-------------|-----|-----|-------|-------|---|
| 0.00 to <0.15 | Aaa to A3 | AAA to A– | AAA to AA– | 0.0 | 0.0 | < 0.1 | < 0.1 | 0 |
| 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | BBB+ to BBB | | | | < 0.1 | 0 |

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| | | | | | | | | |
|---------------------|----------------|-----------|-----------|------|------|-------|----------|---|
| 0.25 to <0.50 | Baa3 | BBB- | BBB- | 0.3 | 0.4 | < 0.1 | < 0.1 | 0 |
| 0.50 to <0.75 | Ba1 | BB+ | BB+ | 0.6 | 0.7 | < 0.1 | < 0.1 | 0 |
| 0.75 to <2.50 | Baa2 to Ba3 | BB to BB- | BB to BB- | 1.4 | 1.4 | < 0.1 | < 0.1 | 0 |
| 2.50 to <10.00 | B1 to B3 | B+ to B- | B+ to B- | 3.9 | 4.2 | < 0.1 | < 0.1 | 0 |
| 10.00 to <100.00 | Caa to C | CCC to C | CCC to C | 10.2 | 13.0 | < 0.1 | < 0.1 | 0 |
| Subtotal | | | | 0.0 | 2.4 | < 0.1 | < 0.1 | 0 |

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CR9: IRB – Backtesting of probability of default (PD) per portfolio (continued)

| PD range | External rating equivalent | External rating equivalent | External rating equivalent | Arithmetic average PD | Number of obligors (in thousands) | Defaulted obligors in the year | End of the year | End of the year | of which new defaulted obligors in the year |
|--|----------------------------|----------------------------|----------------------------|-----------------------|-----------------------------------|--------------------------------|-----------------|-----------------|---|
| | Moody's | Standard & Poor's | Fitch | | | | | | |
| Banks and securities dealers as of 31.12.18 | | | | | | | | | |
| 0.00 to <0.15 | Aaa to A3 | AAA to A- | AAA to AA- | 0.1 | 0.1 | 0.5 | 0.5 | 0 | 0 |
| 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | BBB+ to BBB | 0.2 | 0.2 | 0.3 | 0.3 | 0 | 0 |
| 0.25 to <0.50 | Baa3 | BBB- | BBB- | 0.4 | 0.3 | 0.2 | 0.2 | 1 | 0 |
| 0.50 to <0.75 | Ba1 | BB+ | BB+ | 0.6 | 0.6 | 0.1 | <0.1 | 0 | 0 |
| 0.75 to <2.50 | Baa2 to Baa3 | BB to BB- | BB to BB- | 1.2 | 1.2 | 0.1 | 0.2 | 0 | 0 |
| 2.50 to <10.00 | B1 to B3 | B+ to B- | B+ to B- | 4.4 | 3.3 | 0.2 | 0.2 | 0 | 0 |
| 10.00 to <100.00 | Caa to C | CCC to C | CCC to C | 12.3 | 14.3 | <0.1 | <0.1 | 0 | 0 |
| Subtotal | | | | 0.3 | 0.8 | 1.4 | 1.4 | 1 | 0 |

Banks and securities dealers as of 31.12.17

| | | | | | | | | | |
|----------------|--------------|-------------|-------------|-----|-----|-----|-----|---|---|
| 0.00 to <0.15 | Aaa to A3 | AAA to A- | AAA to AA- | 0.0 | 0.1 | 0.5 | 0.5 | 0 | 0 |
| 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | BBB+ to BBB | 0.2 | 0.2 | 0.4 | 0.3 | 0 | 0 |
| 0.25 to <0.50 | Baa3 | BBB- | BBB- | 0.4 | 0.4 | 0.2 | 0.2 | 0 | 0 |
| 0.50 to <0.75 | Ba1 | BB+ | BB+ | 0.6 | 0.6 | 0.1 | 0.1 | 0 | 0 |
| 0.75 to <2.50 | Baa2 to Baa3 | BB to BB- | BB to BB- | 1.3 | 1.3 | 0.2 | 0.1 | 2 | 0 |
| 2.50 to <10.00 | B1 to B3 | B+ to B- | B+ to B- | 3.7 | 3.4 | 0.2 | 0.2 | 2 | 0 |

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10.00 to
<100.00
Subtotal

Caa to C

CCC to C

CCC to C

12.4

15.3

< 0.1

<
0.1

0

0

0.2

0.8

1.5

1.4

4

0

48

CR9: IRB – Backtesting of probability of default (PD) per portfolio (continued)

| PD range | External rating equivalent | External rating equivalent | External rating equivalent | Arithmetic average PD (in thousands) | Number of obligors | | Defaulted obligors in the year | of w defau obl in |
|--|----------------------------|----------------------------|----------------------------|--------------------------------------|--------------------------------|-------|--------------------------------|----------------------------|
| | Moody's | Standard & Poor's | Fitch | | Weighted average obligors in % | by | | |
| Public-sector entities, multilateral development banks as of 31.12.18 | | | | | | | | |
| 0.00 to <0.15 | Aaa to A3 | AAA to A- | AAA to AA- | 0.0 | 0.1 | 0.3 | 0.4 | 0 |
| 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | BBB+ to BBB | 0.2 | 0.2 | 0.1 | 0.2 | 0 |
| 0.25 to <0.50 | Baa3 | BBB- | BBB- | 0.3 | 0.3 | 0.2 | 0.2 | 0 |
| 0.50 to <0.75 | Ba1 | BB+ | BB+ | 0.6 | 0.6 | < 0.1 | < 0.1 | 0 |
| 0.75 to <2.50 | Baa2 to Ba3 | BB to BB- | BB to BB- | 1.7 | 1.2 | < 0.1 | < 0.1 | 0 |
| 2.50 to <10.00 | B1 to B3 | B+ to B- | B+ to B- | 2.7 | 2.7 | < 0.1 | 0.0 | 0 |
| 10.00 to <100.00 | Caa to C | CCC to C | CCC to C | | | 0.0 | 0.0 | 0 |
| Subtotal | | | | 0.1 | 0.2 | 0.7 | 0.8 | 0 |
| Public-sector entities, multilateral development banks as of 31.12.17 | | | | | | | | |
| 0.00 to <0.15 | Aaa to A3 | AAA to A- | AAA to AA- | 0.0 | 0.1 | 0.4 | 0.3 | 0 |
| 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | BBB+ to BBB | 0.2 | 0.2 | 0.2 | 0.1 | 0 |
| 0.25 to <0.50 | Baa3 | BBB- | BBB- | 0.3 | 0.3 | 0.2 | 0.2 | 0 |
| 0.50 to <0.75 | Ba1 | BB+ | BB+ | 0.6 | 0.6 | < 0.1 | < 0.1 | 0 |
| 0.75 to <2.50 | Baa2 to Ba3 | BB to BB- | BB to BB- | 1.2 | 1.2 | < 0.1 | < 0.1 | 0 |
| 2.50 to <10.00 | B1 to B3 | B+ to B- | B+ to B- | 2.7 | 2.7 | < 0.1 | 0.0 | 0 |
| 10.00 to <100.00 | Caa to C | CCC to C | CCC to C | | | 0.0 | 0.0 | 0 |
| Subtotal | | | | 0.0 | 0.2 | 0.8 | 0.7 | 0 |

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CR9: IRB – Backtesting of probability of default (PD) per portfolio (continued)

| PD range | External rating equivalent | External rating equivalent | External rating equivalent | Weighted average obligors in PD in % | Arithmetic average PD by obligors in % | Number of obligors | | Defaulted obligors in the year | of which defaulted obligors in the year |
|---|----------------------------|----------------------------|----------------------------|--------------------------------------|--|----------------------|-----------------|--------------------------------|---|
| | Moody's | Standard & Poor's | Fitch | | | End of previous year | End of the year | | |
| Corporates: specialized lending as of 31.12.18 | | | | | | | | | |
| 0.00 to <0.15 | Aaa to A3 | AAA to A- | AAA to AA- | 0.1 | 0.1 | 0.3 | 0.4 | 0 | |
| 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | BBB+ to BBB | 0.2 | 0.2 | 0.3 | 0.3 | 0 | |
| 0.25 to <0.50 | Baa3 | BBB- | BBB- | 0.4 | 0.4 | 0.6 | 0.6 | 1 | |
| 0.50 to <0.75 | Ba1 | BB+ | BB+ | 0.6 | 0.6 | 0.6 | 0.6 | 2 | |
| 0.75 to <2.50 | Baa2 to Ba3 | BB to BB- | BB to BB- | 1.4 | 1.4 | 1.7 | 1.4 | 7 | |
| 2.50 to <10.00 | B1 to B3 | B+ to B- | B+ to B- | 3.3 | 3.4 | 0.4 | 0.3 | 10 | |
| 10.00 to <100.00 | Caa to C | CCC to C | CCC to C | 11.7 | 13.0 | < 0.1 | 0.2 | 1 | |
| Subtotal | | | | 1.6 | 1.2 | 3.9 | 4.0 | 21 | |

Corporates: specialized lending as of 31.12.17

| | | | | | | | | | |
|------------------|--------------|-------------|-------------|------|------|-------|-------|---|--|
| 0.00 to <0.15 | Aaa to A3 | AAA to A- | AAA to AA- | 0.1 | 0.1 | 0.7 | 0.3 | 2 | |
| 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | BBB+ to BBB | 0.2 | 0.2 | 0.3 | 0.3 | 1 | |
| 0.25 to <0.50 | Baa3 | BBB- | BBB- | 0.3 | 0.4 | 0.5 | 0.6 | 1 | |
| 0.50 to <0.75 | Ba1 | BB+ | BB+ | 0.6 | 0.6 | 0.6 | 0.6 | 1 | |
| 0.75 to <2.50 | Baa2 to Ba3 | BB to BB- | BB to BB- | 1.3 | 1.3 | 1.7 | 1.7 | 8 | |
| 2.50 to <10.00 | B1 to B3 | B+ to B- | B+ to B- | 3.5 | 3.9 | 0.2 | 0.4 | 2 | |
| 10.00 to <100.00 | Caa to C | CCC to C | CCC to C | 14.2 | 15.5 | < 0.1 | < 0.1 | 1 | |

| | | | | | |
|----------|-----|-----|-----|-----|----|
| Subtotal | 1.1 | 1.0 | 4.2 | 3.9 | 16 |
|----------|-----|-----|-----|-----|----|

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CR9: IRB – Backtesting of probability of default (PD) per portfolio (continued)

| PD range | External rating equivalent | External rating equivalent | External rating equivalent | Arithmetic average PD | Number of obligors (in thousands) | Defaulted obligors in the year | of which defaulted obligors in the year | |
|---|----------------------------|----------------------------|----------------------------|--------------------------------|-----------------------------------|--------------------------------|---|-----|
| | Moody's | Standard & Poor's | Fitch | | | | | |
| | | | | Weighted average obligors in % | End of previous year | End of the year | | |
| Corporates: other lending as of 31.12.18 | | | | | | | | |
| 0.00 to <0.15 | Aaa to A3 | AAA to A- | AAA to AA- | 0.1 | 0.1 | 2.2 | 3.8 | 3 |
| 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | BBB+ to BBB | 0.2 | 0.2 | 1.1 | 1.6 | 3 |
| 0.25 to <0.50 | Baa3 | BBB- | BBB- | 0.4 | 0.4 | 1.8 | 2.4 | 15 |
| 0.50 to <0.75 | Ba1 | BB+ | BB+ | 0.6 | 0.6 | 1.7 | 2.5 | 6 |
| 0.75 to <2.50 | Baa2 to Ba3 | BB to BB- | BB to BB- | 1.4 | 1.5 | 7.9 | 11.2 | 83 |
| 2.50 to <10.00 | B1 to B3 | B+ to B- | B+ to B- | 4.4 | 4.1 | 4.3 | 4.7 | 133 |
| 10.00 to <100.00 | Caa to C | CCC to C | CCC to C | 14.8 | 15.3 | 0.1 | 0.1 | 19 |
| Subtotal | | | | 2.9 | 1.6 | 19.1 | 26.3 | 262 |

Corporates: other lending as of 31.12.17

| | | | | | | | | |
|------------------|--------------|-------------|-------------|------|------|-----|-----|-----|
| 0.00 to <0.15 | Aaa to A3 | AAA to A- | AAA to AA- | 0.1 | 0.1 | 1.7 | 2.2 | 2 |
| 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | BBB+ to BBB | 0.2 | 0.2 | 1.0 | 1.1 | 3 |
| 0.25 to <0.50 | Baa3 | BBB- | BBB- | 0.4 | 0.4 | 1.4 | 1.8 | 1 |
| 0.50 to <0.75 | Ba1 | BB+ | BB+ | 0.6 | 0.6 | 1.5 | 1.7 | 2 |
| 0.75 to <2.50 | Baa2 to Ba3 | BB to BB- | BB to BB- | 1.3 | 1.5 | 8.1 | 7.9 | 59 |
| 2.50 to <10.00 | B1 to B3 | B+ to B- | B+ to B- | 4.1 | 4.1 | 4.3 | 4.3 | 138 |
| 10.00 to <100.00 | Caa to C | CCC to C | CCC to C | 16.9 | 14.7 | 0.1 | 0.1 | 24 |

| | | | | | |
|----------|-----|-----|------|------|-----|
| Subtotal | 4.3 | 1.8 | 18.3 | 19.1 | 229 |
|----------|-----|-----|------|------|-----|

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CR9: IRB – Backtesting of probability of default (PD) per portfolio (continued)

| PD range | External rating equivalent | External rating equivalent | External rating equivalent | Arithmetic average PD | Number of obligors (in thousands) | Defaulted obligors in the year | End of previous year | End of the year | of which defaulted obligors in the year |
|---|----------------------------|----------------------------|----------------------------|-----------------------|-----------------------------------|--------------------------------|----------------------|-----------------|---|
| | Moody's | Standard & Poor's | Fitch | | | | | | |
| Retail: residential mortgages as of 31.12.18 | | | | | | | | | |
| 0.00 to <0.15 | Aaa to A3 | AAA to A- | AAA to AA- | 0.1 | 0.1 | 112.2 | 129.5 | 74 | |
| 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | BBB+ to BBB | 0.2 | 0.2 | 22.3 | 20.7 | 30 | |
| 0.25 to <0.50 | Baa3 | BBB- | BBB- | 0.4 | 0.4 | 31.6 | 27.8 | 58 | |
| 0.50 to <0.75 | Ba1 | BB+ | BB+ | 0.6 | 0.6 | 17.1 | 15.4 | 112 | |
| 0.75 to <2.50 | Baa2 to Baa3 | BB to BB- | BB to BB- | 1.3 | 1.3 | 29.8 | 27.0 | 119 | |
| 2.50 to <10.00 | B1 to B3 | B+ to B- | B+ to B- | 4.3 | 3.8 | 13.3 | 10.2 | 135 | |
| 10.00 to <100.00 | Caa to C | CCC to C | CCC to C | 15.9 | 16.1 | 0.8 | 1.2 | 25 | |
| Subtotal | | | | 1.2 | 0.6 | 227.1 | 231.7 | 553 | |

Retail: residential mortgages as of 31.12.17

| | | | | | | | | | |
|----------------|--------------|-------------|-------------|-----|-----|-------|-------|-----|--|
| 0.00 to <0.15 | Aaa to A3 | AAA to A- | AAA to AA- | 0.1 | 0.0 | 124.7 | 112.2 | 95 | |
| 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | BBB+ to BBB | 0.2 | 0.2 | 21.2 | 22.3 | 27 | |
| 0.25 to <0.50 | Baa3 | BBB- | BBB- | 0.3 | 0.3 | 25.6 | 31.6 | 42 | |
| 0.50 to <0.75 | Ba1 | BB+ | BB+ | 0.6 | 0.6 | 14.5 | 17.1 | 85 | |
| 0.75 to <2.50 | Baa2 to Baa3 | BB to BB- | BB to BB- | 1.4 | 1.4 | 29.7 | 29.8 | 174 | |
| 2.50 to <10.00 | B1 to B3 | B+ to B- | B+ to B- | 4.4 | 4.3 | 11.1 | 13.3 | 168 | |

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| | | | | | | | | |
|---------------------|----------|----------|----------|------|------|-------|-------|-----|
| 10.00 to <100.00 | Caa to C | CCC to C | CCC to C | 15.1 | 14.9 | 1.0 | 0.8 | 37 |
| Subtotal | | | | 1.1 | 0.6 | 227.7 | 227.1 | 628 |

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CR9: IRB – Backtesting of probability of default (PD) per portfolio (continued)

| PD range | External rating equivalent | External rating equivalent | External rating equivalent | Arithmetic average PD | Weighted average obligors in % | Number of obligors (in thousands) | | Defaulted obligors in the year | of which new defaulted obligors in the year |
|--|----------------------------|----------------------------|----------------------------|-----------------------|--------------------------------|-----------------------------------|-----------------|--------------------------------|---|
| | Moody's | Standard & Poor's | Fitch | | | End of previous year | End of the year | | |
| Retail: other retail as of 31.12.18 | | | | | | | | | |
| 0.00 to <0.15 | Aaa to A3 | AAA to A- | AAA to AA- | 0.0 | 0.0 | 206.2 | 195.3 | 8 | |
| 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | BBB+ to BBB | 0.2 | 0.2 | 5.5 | 6.2 | 0 | |
| 0.25 to <0.50 | Baa3 | BBB- | BBB- | 0.4 | 0.4 | 3.6 | 2.6 | 0 | |
| 0.50 to <0.75 | Ba1 | BB+ | BB+ | 0.6 | 0.6 | 2.0 | 1.8 | 0 | |
| 0.75 to <2.50 | Baa2 to Ba3 | BB to BB- | BB to BB- | 1.0 | 1.0 | 55.9 | 48.1 | 0 | |
| 2.50 to <10.00 | B1 to B3 | B+ to B- | B+ to B- | 3.6 | 3.5 | 2.5 | 1.5 | 0 | |
| 10.00 to <100.00 | Caa to C | CCC to C | CCC to C | 17.4 | 21.3 | 3.6 | 0.7 | 0 | |
| Subtotal | | | | 0.3 | 0.3 | 279.3 | 256.2 | 8 | |
| Retail: other retail as of 31.12.17 | | | | | | | | | |
| 0.00 to <0.15 | Aaa to A3 | AAA to A- | AAA to AA- | 0.1 | 0.0 | 167.2 | 206.2 | 5 | |
| 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | BBB+ to BBB | 0.2 | 0.2 | 0.9 | 5.5 | 0 | |
| 0.25 to <0.50 | Baa3 | BBB- | BBB- | 0.4 | 0.4 | 4.4 | 3.6 | 0 | |
| 0.50 to <0.75 | Ba1 | BB+ | BB+ | 0.6 | 0.6 | 1.0 | 2.0 | 0 | |
| 0.75 to <2.50 | Baa2 to Ba3 | BB to BB- | BB to BB- | 1.1 | 1.5 | 8.4 | 55.9 | 0 | |
| 2.50 to <10.00 | B1 to B3 | B+ to B- | B+ to B- | 5.5 | 4.6 | 0.9 | 2.5 | 0 | |

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| 10.00 to <100.00 | Caa to C | CCC to C | CCC to C | | | | | |
|---------------------|----------|----------|----------|-----|-----|-------|-------|---|
| | | | | 0.0 | 3.6 | | 0 | |
| Subtotal | | | | 0.2 | 0.1 | 182.8 | 279.3 | 5 |

1 CR9 covers all Pillar 1 PD models that are approved by FINMA and are subject to a yearly confirmation backtesting (refer to the table “Key features of our main credit risk models” in Annual Report 2018 on page 146). 2 We use 11 years of data for the calculation of the “average historical annual default rate.”

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Equity exposures

The table below provides information on our equity exposures under the simple risk weight method.

Semiannual I**CR10: IRB (equities under the simple risk weight method)¹**

| <i>USD million, except where indicated</i> | On-balance sheet amount | Off-balance sheet amount | Risk weight in % ² | Exposure amount ³ | RWA ² |
|--|-------------------------|--------------------------|-------------------------------|------------------------------|------------------|
| 31.12.18 | | | | | |
| Exchange-traded equity exposures | 66 | | 300 | 65 | 208 |
| Other equity exposures | 1,122 | | 400 | 814 | 3,450 |
| Total | 1,188 | 0 | | 879 | 3,658 |
| 30.6.18 | | | | | |
| Exchange-traded equity exposures | 59 | | 300 | 58 | 186 |
| Other equity exposures | 1,112 | | 400 | 823 | 3,491 |
| Total | 1,171 | 0 | | 882 | 3,676 |
| 31.12.17 | | | | | |
| Exchange-traded equity exposures | 59 | | 300 | 59 | 188 |
| Other equity exposures | 873 | | 400 | 529 | 2,242 |
| Total | 932 | 0 | | 587 | 2,429 |

1 This table excludes significant investments in the common shares of non-consolidated financial institutions (banks, insurance and other financial entities) that are subject to the threshold treatment and risk weighted at 250%. 2 RWA are calculated post-application of the A-IRB multiplier of 6%, therefore the respective risk weight is higher than 300% and 400%. 3 The exposure amount for equities in the banking book is based on the net position.

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Section 5 Counterparty credit risk

Introduction

Annual | Counterparty credit risk (CCR) arises from over-the-counter (OTC) and exchange-traded derivatives (ETD), securities financing transactions (SFTs) and long settlement transactions. Within traded products, we determine the regulatory credit exposure on the majority of our derivatives portfolio by applying the effective expected positive exposure (EPE) and stressed expected positive exposure (stressed EPE) as defined in the Basel III framework. For the rest of the portfolio we apply the current exposure method (CEM) based on the replacement value of derivatives in combination with a regulatory prescribed add-on. For the majority of securities financing transactions (securities borrowing, securities lending, margin lending, repurchase agreements and reverse repurchase agreements), we determine the regulatory credit exposure using the close-out period (COP) approach.

The counterparty credit risk-related tables in this report correspond to the CCR by asset class that is provided in the “Regulatory exposures and risk-weighted assets” table on page 16–18 of this report. [p](#)

This section is structured into three sub-sections:

Counterparty credit risk management

Annual | Refers to disclosures on our risk management objectives, policies and risk management process, operating limits for CCR exposures, wrong-way risks and the effect of a credit rating downgrade. [p](#)

Counterparty credit risk risk-weighted assets

Quarterly | Comprises disclosures on the quarterly credit risk RWA development. [p](#)

Counterparty credit risk exposure

Semiannual | Provides information on our CCR exposures, credit valuation adjustment (CVA), capital charge and credit derivatives exposures. This section excludes CCR exposures to central counterparties; CVA is separately covered in table CCR2. [p](#)

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Counterparty credit risk management

The table below presents an overview of Pillar 3 disclosures that are provided separately in our Annual Report 2018.

Annual I

CCRA – Counterparty credit risk management

| Pillar 3 disclosure requirement | Annual Report 2018 section | Disclosure | Annual Report 2018 page number |
|--|---------------------------------------|--|---------------------------------------|
| Risk management objectives and policies related to counterparty credit risk | Risk, treasury and capital management | – Traded products | 141–142 |
| | | – Credit hedging | 145 |
| | | – Mitigation of settlement risk | 145 |
| | Consolidated financial statements | – Note 1a item 3e Securities borrowing / lending and repurchase / reverse repurchase transactions | 338 |
| | | – Note 1a item 3j Hedge accounting | 346–347 |
| | | – Note 11 Derivative instruments | 395–399 |
| The method used to assign the operating limits defined in terms of internal capacity for counterparty credit exposures and for CCP exposures | Risk, treasury and capital management | – Risk governance | 123–124 |
| | | – Portfolio and position limits | 132 |
| | | – Credit risk – Overview of measurement, monitoring and management techniques | 133 |
| | | – Credit hedging | 145 |
| | | – Credit risk models | 145–151 |
| Policies relating to guarantees and other risk mitigants and counterparty risk assessment | Risk, treasury and capital management | – Credit risk mitigation | 143–145 |
| | Consolidated financial statements | – Note 11 Derivative instruments | 395–399 |

| | | | |
|---|---------------------------------------|---|---------|
| | | - Note 25 Offsetting financial assets and financial liabilities | 450–451 |
| Policies with respect to wrong-way risk exposures | Risk, treasury and capital management | - Exposure at default | 148 |
| The effect on the bank of a credit rating downgrade (i.e., amount of collateral that the bank would be required to provide) | Risk, treasury and capital management | - Credit ratings | 186 |

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Counterparty credit risk risk-weighted assets

Quarterly | CCR RWA under the internal model method (IMM) and value-at-risk (VaR) decreased by USD 0.6 billion to USD 22.7 billion during the fourth quarter of 2018. For definitions of counterparty credit risk RWA movement table components, refer to “Definitions of credit risk and counterparty credit risk RWA movement table components for CR8 and CCR7” in the “Credit risk” section on page 45 of this report.^p

Quarterly |

CCR7: RWA flow statements of CCR exposures under internal model method (IMM) and value-at-risk (VaR)

| USD million | For the quarter ended 31.12.18 | | | For the quarter ended 30.9.18 | | | For the quarter ended 30.6.18 | | |
|----------------------------|-----------------------------------|---------------------------|---------------|----------------------------------|---------------------------|---------------|----------------------------------|---------------------------|---------------|
| | Derivatives Subject to IMM | SFTs Subject to VaR | Total | Derivatives Subject to IMM | SFTs Subject to VaR | Total | Derivatives Subject to IMM | SFTs Subject to VaR | Total |
| RWA as of the beginning of | | | | | | | | | |
| 1 the quarter | 18,366 | 4,863 | 23,229 | 18,548 | 4,458 | 23,006 | 19,464 | 4,498 | 23,962 |
| 2 Asset size | (738) | 249 | (489) | (621) | 491 | (130) | (437) | 62 | (375) |
| 3 Credit quality | | | | | | | | | |
| 4 of | 165 | (62) | 103 | (30) | (134) | (163) | (238) | (48) | (286) |
| 5 counterparties | | | | | | | | | |
| 6 Model updates | (116) | (57) | (173) | 285 | 0 | 285 | 0 | 0 | 285 |
| 7 Methodology | 227 | 64 | 291 | 222 | 56 | 278 | 229 | 64 | 293 |
| 8 and policy | | | | | | | | | |
| 9 of which: | | | | | | | | | |
| 10 regulatory | 227 | 64 | 291 | 222 | 56 | 278 | 229 | 64 | 293 |
| 11 add-ons | | | | | | | | | |
| 12 Acquisitions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 and disposals | | | | | | | | | |
| 14 Foreign | | | | | | | | | |
| 15 exchange | (61) | (20) | (81) | (38) | (8) | (47) | (470) | (118) | (588) |
| 16 movements | | | | | | | | | |
| 17 Other | (220) | 0 | (220) | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 RWA as of | | | | | | | | | |
| 19 the end of | | | | | | | | | |
| 20 the quarter | 17,624 | 5,036 | 22,660 | 18,366 | 4,863 | 23,229 | 18,548 | 4,458 | 22,999 |

^p

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Counterparty credit exposure

Semiannual I Exposure at default (EAD) post credit-risk mitigation (CRM) related to counterparty credit risk (CCR) decreased by USD 11.2 billion to USD 100.6 billion, whereas RWA increased by USD 0.8 billion to USD 32.1 billion as of 31 December 2018. EAD post CRM on derivative exposures decreased by USD 11.5 billion and RWA by USD 2.2 billion, primarily in our Foreign exchange, Rates and Credit and Equities businesses within the Investment Bank and Group ALM, largely as a result of client-driven decreases and fair value changes. RWA from securities financing transactions increased by USD 3 billion, mainly due to the revision of the methodology applied for structured margin lending transactions. [p](#)

Semiannual I**CCR1: Analysis of counterparty credit risk (CCR) exposure by approach**

| <i>USD million, except where indicated</i> | Replacement cost | Potential future exposure | Alpha used for computing regulatory EAD | EEPE | EAD post-CRM | RWA | |
|--|--------------------|---------------------------|---|------------------|----------------|---------------|--------|
| 31.12.18 | | | | | | | |
| 1 SA-CCR (for derivatives) ¹ | 8,670 ² | 8,168 | | 1.0 ¹ | 16,838 | 3,664 | |
| 2 Internal model method (for derivatives) | | | | 25,889 | 1.6 | 41,423 | 17,375 |
| 3 Simple approach for credit risk mitigation (for SFTs) | | | | | | | |
| 4 Comprehensive approach for credit risk mitigation (for SFTs) | | | | | 17,202 | 6,163 | |
| 5 VaR (for SFTs) | | | | | 25,149 | 4,939 | |
| 6 Total | | | | | 100,612 | 32,140 | |

30.6.18

| | | | | | | | |
|---|---------------------|-------|--|------------------|--------|--------|--------|
| 1 SA-CCR (for derivatives) ¹ | 11,379 ² | 9,278 | | 1.0 ¹ | 20,657 | 4,862 | |
| 2 Internal model method (for derivatives) | | | | 30,677 | 1.6 | 49,083 | 18,349 |
| 3 Simple approach for credit risk mitigation (for SFTs) | | | | | | | |

| | | | | | | |
|---|--|--|--|--|----------------|---------------|
| 4 | Comprehensive approach for credit risk mitigation (for SFTs) | | | | 16,337 | 3,779 |
| 5 | VaR (for SFTs) | | | | 25,762 | 4,316 |
| 6 | Total | | | | 111,839 | 31,307 |

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| | | | | | | |
|---|--|---------------------|--------|------------------|----------------|---------------|
| 1 | SA-CCR (for derivatives) ¹ | 10,941 ² | 7,845 | 1.0 ¹ | 18,786 | 3,901 |
| 2 | Internal model method (for derivatives) | | 28,922 | 1.6 | 46,275 | 17,267 |
| 3 | Simple approach for credit risk mitigation (for SFTs) | | | | | |
| 4 | Comprehensive approach for credit risk mitigation (for SFTs) | | | | 16,139 | 3,508 |
| 5 | VaR (for SFTs) | | | | 23,386 | 3,959 |
| 6 | Total | | | | 104,586 | 28,635 |

1 Standardized approach for CCR. Calculated in accordance with the current exposure method (CEM) until the implementation of SA-CCR with expected effective date 1 January 2020, when an alpha factor of 1.4 will be used for calculating regulatory EAD. 2 Replacement costs include collateral mitigation for on- and off-balance sheet exposures related to CCR for derivative transactions.

p

Semiannual I In addition to the default risk capital requirements for CCR based on the advanced internal ratings-based (A-IRB) or standardized approach, we are required to add a capital charge to derivatives to cover the risk of mark-to-market losses associated with the deterioration of counterparty credit quality, referred to as the CVA. The advanced CVA VaR approach has been used to calculate the CVA capital charge where we apply the IMM. Where this is not the case, the standardized CVA approach has been applied. More information on our portfolios subject to the CVA capital charge as of 31 December 2018 is provided in the table below. p

Semiannual I**CCR2: Credit valuation adjustment (CVA) capital charge**

| USD million | 31.12.18 | | 30.6.18 | | 31.12.17 | |
|---------------------------------|------------------------------|--------------|------------------------------|-------|------------------------------|-------|
| | EAD post-CRM ¹ | RWA | EAD post-CRM ¹ | RWA | EAD post-CRM ¹ | RWA |
| Total portfolios subject to the | 26,680 | 1,479 | 27,947 | 1,799 | 24,684 | 2,017 |

| | | | | | | | |
|---|---|---------------|--------------|---------------|--------------|---------------|--------------|
| | advanced CVA capital charge | | | | | | |
| 1 | (i) VaR component (including the 3x multiplier) | 271 | | 346 | | | 473 |
| 2 | (ii) Stressed VaR component (including the 3x multiplier) | 1,208 | | 1,453 | | | 1,544 |
| 3 | All portfolios subject to the standardized CVA capital charge | 4,946 | 1,338 | 8,543 | 1,697 | 8,226 | 1,146 |
| 4 | Total subject to the CVA capital charge | 31,626 | 2,816 | 36,489 | 3,496 | 32,911 | 3,164 |

1 Includes EAD of the underlying portfolio subject to the respective CVA charge.

P

Semiannual | The table below provides information on our counterparty credit risk under the standardized approach. Exposure at default (EAD) increased by USD 4.3 billion to USD 6.7 billion mainly due to the revision of the methodology applied for structured margin lending transactions. **p**

Semiannual |

CCR3: Standardized approach – CCR exposures by regulatory portfolio and risk weights

USD million

| <i>Risk weight</i> | | 0% | 10% | 20% | 50% | 75% | 100% | 150% | Others | Total credit exposure |
|--------------------|---|------------|-----|-----------|------------|--------------|--------------|----------|----------|-----------------------|
| | Regulatory portfolio as of 31.12.18 | | | | | | | | | |
| 1 | Central governments and central banks | 202 | | | | | 0 | | | 202 |
| 2 | Banks and securities dealers | | | 31 | 176 | 0 | 4 | 0 | | 210 |
| 3 | Public-sector entities and multilateral development banks | | | 0 | | | | | | 1 |
| 4 | Corporates | | | | 99 | 4,974 | 1,045 | 0 | | 6,119 |
| 5 | Retail | | | | | 18 | 128 | | | 147 |
| 6 | Equity | | | | | | | | | |
| 7 | Other assets | | | | | | | | | |
| 8 | Total | 202 | | 32 | 275 | 4,993 | 1,177 | 0 | 0 | 6,679 |
| | Regulatory portfolio as of 30.6.18 | | | | | | | | | |
| 1 | Central governments and central banks | 203 | | | | | | | | 203 |
| 2 | Banks and securities dealers | | | 105 | 101 | | 50 | 3 | | 259 |
| 3 | Public-sector entities and multilateral development banks | | | | | | 1 | | | 1 |
| 4 | Corporates | | | 1 | 170 | | 1,255 | | | 1,426 |

| | | | | | | | | | |
|----------|--------------|------------|------------|------------|-----------|--------------|----------|----------|--------------|
| 5 | Retail | | | | 18 | 509 | | | 527 |
| 6 | Equity | | | | | | | | |
| 7 | Other assets | | | | | | | | |
| 8 | Total | 203 | 105 | 271 | 18 | 1,815 | 3 | 0 | 2,417 |

**Regulatory
portfolio as of
31.12.17**

| | | | | | | | | | |
|----------|---|------------|------------|------------|----------|------------|----------|----------|--------------|
| 1 | Central governments and central banks | 207 | | | | | | | 207 |
| 2 | Banks and securities dealers | | 102 | 242 | | 1 | | | 345 |
| 3 | Public-sector entities and multilateral development banks | | | | | | 4 | | 4 |
| 4 | Corporates | | | 62 | | 827 | | | 889 |
| 5 | Retail | | | | 4 | 99 | | | 104 |
| 6 | Equity | | | | | | | | |
| 7 | Other assets | | | | | | | | |
| 8 | Total | 207 | 102 | 304 | 4 | 932 | 0 | 0 | 1,549 |

P

UBS Group AG consolidated

Semiannual I Information on RWA, including details on movements in RWA, is provided on pages 6–7 of our UBS Group AG and significant regulated subsidiaries and sub-groups report for the third quarter of 2018, available under “Pillar 3 disclosures” at www.ubs.com/investors and on page 57 of this report.

Semiannual I**CCR4: IRB – CCR exposures by portfolio and PD scale**

| <i>USD million, except where indicated</i> | EAD post-CRM | Average PD in % | Number of obligors (in thousands) | Average LGD in % | Average maturity in years | RWA | RWA density in % |
|---|--------------|-----------------|-----------------------------------|------------------|---------------------------|--------------|------------------|
| Central governments and central banks as of 31.12.18 | | | | | | | |
| 0.00 to <0.15 | 8,415 | 0.0 | 0.1 | 44.0 | 0.3 | 740 | 8.8 |
| 0.15 to <0.25 | 197 | 0.2 | <0.1 | 65.3 | 0.9 | 93 | 47.0 |
| 0.25 to <0.50 | 128 | 0.3 | <0.1 | 84.3 | 1.0 | 106 | 83.4 |
| 0.50 to <0.75 | 100 | 0.7 | <0.1 | 45.0 | 1.0 | 85 | 85.1 |
| 0.75 to <2.50 | 23 | 1.0 | <0.1 | 53.8 | 0.8 | 21 | 90.2 |
| 2.50 to <10.00 | 0 | 2.6 | <0.1 | 88.8 | 1.0 | 0 | 229.2 |
| 10.00 to <100.00 | | | | | | | |
| 100.00 (default) | | | | | | | |
| Subtotal | 8,864 | 0.1 | 0.2 | 45.1 | 0.5 | 1,046 | 11.8 |
| Central governments and central banks as of 30.6.18 | | | | | | | |
| 0.00 to <0.15 | 8,824 | 0.0 | 0.1 | 49.1 | 0.4 | 805 | 9.1 |
| 0.15 to <0.25 | 279 | 0.2 | <0.1 | 66.2 | 0.9 | 129 | 46.2 |
| 0.25 to <0.50 | 169 | 0.3 | <0.1 | 90.7 | 1.0 | 152 | 89.9 |
| 0.50 to <0.75 | | | | | | | |
| 0.75 to <2.50 | 25 | 0.9 | <0.1 | 59.8 | 0.6 | 25 | 99.7 |
| 2.50 to <10.00 | 0 | 5.2 | <0.1 | 67.2 | 1.0 | 1 | 253.9 |
| 10.00 to <100.00 | | | | | | | |
| 100.00 (default) | | | | | | | |
| Subtotal | 9,298 | 0.1 | 0.2 | 50.4 | 0.5 | 1,112 | 12.0 |
| Central governments and central banks as of 31.12.17 | | | | | | | |
| 0.00 to <0.15 | 7,746 | 0.0 | 0.1 | 47.3 | 0.6 | 790 | 10.2 |
| 0.15 to <0.25 | 224 | 0.2 | <0.1 | 68.1 | 0.9 | 108 | 48.2 |
| 0.25 to <0.50 | 26 | 0.3 | <0.1 | 79.2 | 1.0 | 21 | 79.1 |

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| | | | | | | | |
|------------------|-------|-----|------|------|-----|-----|-------|
| 0.50 to <0.75 | 20 | 0.7 | <0.1 | 70.0 | 0.1 | 18 | 87.8 |
| 0.75 to <2.50 | 31 | 1.0 | <0.1 | 60.0 | 0.5 | 30 | 95.2 |
| 2.50 to <10.00 | 2 | 6.2 | <0.1 | 70.0 | 1.0 | 5 | 281.5 |
| 10.00 to <100.00 | | | | | | | |
| 100.00 (default) | | | | | | | |
| Subtotal | 8,050 | 0.1 | 0.2 | 48.1 | 0.6 | 971 | 12.1 |

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CCR4: IRB – CCR exposures by portfolio and PD scale (continued)

| <i>USD million, except where indicated</i> | EAD post-CRM | Average PD in % | Number of obligors (in thousands) | Average LGD in % | Average maturity in years | RWA | RWA density in % |
|--|-----------------|--------------------|---|---------------------|---------------------------------|--------------|------------------------|
| Banks and securities dealers as of 31.12.18 | | | | | | | |
| 0.00 to <0.15 | 13,103 | 0.1 | 0.4 | 50.5 | 0.8 | 2,672 | 20.4 |
| 0.15 to <0.25 | 3,927 | 0.2 | 0.2 | 48.3 | 0.8 | 1,415 | 36.0 |
| 0.25 to <0.50 | 1,458 | 0.4 | 0.2 | 49.9 | 0.8 | 764 | 52.4 |
| 0.50 to <0.75 | 636 | 0.7 | 0.1 | 58.8 | 0.8 | 551 | 86.7 |
| 0.75 to <2.50 | 352 | 1.2 | 0.2 | 63.7 | 0.8 | 432 | 122.8 |
| 2.50 to <10.00 | 320 | 7.5 | 0.1 | 12.0 | 0.2 | 132 | 41.2 |
| 10.00 to <100.00 | 0 | 13.0 | <0.1 | 66.0 | 1.0 | 10 | 0.0 |
| 100.00 (default) | | | | | | | |
| Subtotal | 19,799 | 0.3 | 1.1 | 49.9 | 0.8 | 5,976 | 30.2 |
| Banks and securities dealers as of 30.6.18 | | | | | | | |
| 0.00 to <0.15 | 18,456 | 0.1 | 0.4 | 49.7 | 0.7 | 3,370 | 18.3 |
| 0.15 to <0.25 | 4,102 | 0.2 | 0.3 | 48.9 | 0.8 | 1,450 | 35.4 |
| 0.25 to <0.50 | 1,334 | 0.4 | 0.2 | 50.2 | 1.0 | 717 | 53.8 |
| 0.50 to <0.75 | 507 | 0.6 | 0.1 | 61.9 | 1.1 | 497 | 98.0 |
| 0.75 to <2.50 | 491 | 1.1 | 0.2 | 60.5 | 0.7 | 425 | 86.6 |
| 2.50 to <10.00 | 130 | 7.2 | 0.1 | 31.0 | 0.3 | 143 | 110.4 |
| 10.00 to <100.00 | 0 | 13.0 | <0.1 | 66.0 | 1.0 | 1 | 249.1 |
| 100.00 (default) | | | | | | | |
| Subtotal | 25,020 | 0.2 | 1.2 | 50.0 | 0.7 | 6,604 | 26.4 |
| Banks and securities dealers as of 31.12.17 | | | | | | | |
| 0.00 to <0.15 | 18,435 | 0.1 | 0.4 | 50.0 | 0.7 | 3,155 | 17.1 |
| 0.15 to <0.25 | 3,202 | 0.2 | 0.3 | 49.2 | 0.9 | 1,207 | 37.7 |
| 0.25 to <0.50 | 1,399 | 0.4 | 0.2 | 47.6 | 1.0 | 735 | 52.5 |
| 0.50 to <0.75 | 429 | 0.6 | 0.1 | 63.6 | 1.0 | 432 | 100.7 |
| 0.75 to <2.50 | 603 | 1.1 | 0.2 | 61.6 | 0.7 | 619 | 102.6 |
| 2.50 to <10.00 | 86 | 4.7 | 0.1 | 42.7 | 0.4 | 120 | 139.5 |
| 10.00 to <100.00 | 0 | 13.0 | <0.1 | 66.0 | 1.0 | 1 | 350.0 |
| 100.00 (default) | 32 | | <0.1 | | | 34 | 106.0 |
| Subtotal | 24,186 | 0.3 | 1.2 | 50.3 | 0.7 | 6,303 | 26.1 |

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CCR4: IRB – CCR exposures by portfolio and PD scale (continued)

| <i>USD million, except where indicated</i> | EAD post-CRM | Average PD in % | Number of obligors (in thousands) | Average LGD in % | Average maturity in years | RWA | RWA density in % |
|--|-----------------|--------------------|---|------------------------|---------------------------------|-------|------------------------|
| Public-sector entities, multilateral development banks as of 31.12.18 | | | | | | | |
| 0.00 to <0.15 | 2,519 | 0.0 | 0.1 | 43.7 | 1.1 | 223 | 8.8 |
| 0.15 to <0.25 | 86 | 0.2 | <0.1 | 53.2 | 1.1 | 28 | 32.3 |
| 0.25 to <0.50 | 39 | 0.4 | <0.1 | 61.3 | 1.0 | 24 | 62.6 |
| 0.50 to <0.75 | 0 | 0.0 | <0.1 | 0.0 | 0.0 | 0 | 0.0 |
| 0.75 to <2.50 | 0 | 1.0 | <0.1 | 35.0 | 1.0 | 0 | 60.4 |
| 2.50 to <10.00 | 0 | 2.7 | <0.1 | 35.0 | 1.0 | 0 | 87.4 |
| 10.00 to <100.00 | | | | | | | |
| 100.00 (default) | 12 | | <0.1 | | | 13 | 106.0 |
| Subtotal | 2,657 | 0.5 | 0.1 | 44.1 | 1.1 | 288 | 10.8 |
| Public-sector entities, multilateral development banks as of 30.6.18 | | | | | | | |
| 0.00 to <0.15 | 3,267 | 0.0 | 0.1 | 42.8 | 1.4 | 251.0 | 7.7 |
| 0.15 to <0.25 | 84 | 0.2 | <0.1 | 58.9 | 1.0 | 30.8 | 36.7 |
| 0.25 to <0.50 | 44 | 0.3 | <0.1 | 56.6 | 1.0 | 25.5 | 57.6 |
| 0.50 to <0.75 | | | | | | | |
| 0.75 to <2.50 | 14 | 1.0 | <0.1 | 35.0 | 1.0 | 8.4 | 60.4 |
| 2.50 to <10.00 | 0 | 2.7 | <0.1 | 35.0 | 1.0 | 0.0 | 87.4 |
| 10.00 to <100.00 | | | | | | | |
| 100.00 (default) | 12 | | <0.1 | | | 12.8 | 106.0 |
| Subtotal | 3,421 | 0.4 | 0.1 | 43.3 | 1.4 | 328.5 | 9.6 |
| Public-sector entities, multilateral development banks as of 31.12.17 | | | | | | | |
| 0.00 to <0.15 | 3,595 | 0.0 | 0.1 | 43.5 | 1.5 | 334 | 9.3 |
| 0.15 to <0.25 | 119 | 0.2 | <0.1 | 49.3 | 1.2 | 36 | 30.6 |
| 0.25 to <0.50 | 42 | 0.3 | <0.1 | 58.7 | 1.0 | 25 | 59.2 |
| 0.50 to <0.75 | | | | | | | |
| 0.75 to <2.50 | 23 | 1.0 | <0.1 | 35.0 | 0.0 | 11 | 50.0 |
| 2.50 to <10.00 | 0 | 2.7 | <0.1 | 35.0 | 1.0 | 0 | 87.4 |
| 10.00 to <100.00 | | | | | | | |
| 100.00 (default) | 23 | | <0.1 | | | 25 | 106.0 |
| Subtotal | 3,802 | 0.6 | 0.1 | 43.6 | 1.5 | 431 | 11.3 |

CCR4: IRB – CCR exposures by portfolio and PD scale (continued)

| <i>USD million, except where indicated</i> | EAD post-CRM | Average PD in % | Number of obligors (in thousands) | Average LGD in % | Average maturity in years | RWA | RWA density in % |
|---|--------------|-----------------|-----------------------------------|------------------|---------------------------|--------|------------------|
| Corporates: including specialized lending as of 31.12.18¹ | | | | | | | |
| 0.00 to <0.15 | 35,475 | 0.0 | 12.0 | 35.0 | 0.6 | 4,717 | 13.3 |
| 0.15 to <0.25 | 6,761 | 0.2 | 1.6 | 51.0 | 0.6 | 3,688 | 54.6 |
| 0.25 to <0.50 | 2,194 | 0.4 | 0.9 | 78.3 | 1.0 | 2,815 | 128.3 |
| 0.50 to <0.75 | 2,351 | 0.6 | 1.0 | 68.2 | 0.6 | 3,668 | 156.0 |
| 0.75 to <2.50 | 4,311 | 1.2 | 1.6 | 28.2 | 0.7 | 3,569 | 82.8 |
| 2.50 to <10.00 | 1,311 | 3.2 | 0.3 | 13.8 | 0.4 | 819 | 62.4 |
| 10.00 to <100.00 | 0 | 13.0 | <0.1 | 5.0 | 1.0 | 0 | 36.7 |
| 100.00 (default) | 1 | | <0.1 | | | 1 | 106.0 |
| Subtotal | 52,403 | 0.3 | 17.3 | 39.3 | 0.6 | 19,276 | 36.8 |

**Corporates:
including
specialized
lending as of
30.6.18¹**

| | | | | | | | |
|------------------|--------|------|------|------|-----|--------|-------|
| 0.00 to <0.15 | 41,954 | 0.0 | 12.2 | 35.9 | 0.6 | 5,293 | 12.6 |
| 0.15 to <0.25 | 8,878 | 0.2 | 1.5 | 46.6 | 0.5 | 4,196 | 47.3 |
| 0.25 to <0.50 | 2,500 | 0.4 | 0.9 | 73.8 | 1.0 | 3,059 | 122.3 |
| 0.50 to <0.75 | 2,290 | 0.6 | 0.9 | 62.9 | 0.7 | 3,420 | 149.4 |
| 0.75 to <2.50 | 5,530 | 1.2 | 1.9 | 25.2 | 0.8 | 3,834 | 69.3 |
| 2.50 to <10.00 | 1,806 | 3.1 | 0.3 | 12.6 | 0.4 | 947 | 52.4 |
| 10.00 to <100.00 | 5 | 13.1 | <0.1 | 46.2 | 1.0 | 14 | 317.5 |
| 100.00 (default) | 1 | | <0.1 | | | 1 | 106.0 |
| Subtotal | 62,963 | 0.3 | 17.7 | 38.3 | 0.6 | 20,764 | 33.0 |

**Corporates:
including
specialized
lending as of
31.12.17¹**

| | | | | | | | |
|------------------|--------|------|------|------|-----|--------|-------|
| 0.00 to <0.15 | 38,883 | 0.0 | 12.0 | 37.7 | 0.6 | 4,988 | 12.8 |
| 0.15 to <0.25 | 7,665 | 0.2 | 1.5 | 46.9 | 0.5 | 3,491 | 45.5 |
| 0.25 to <0.50 | 2,659 | 0.4 | 1.0 | 68.8 | 1.0 | 3,140 | 118.1 |
| 0.50 to <0.75 | 1,970 | 0.6 | 0.9 | 64.7 | 0.7 | 2,901 | 147.2 |
| 0.75 to <2.50 | 6,241 | 1.2 | 1.9 | 22.3 | 0.8 | 3,906 | 62.6 |
| 2.50 to <10.00 | 1,827 | 3.2 | 0.3 | 12.8 | 0.4 | 952 | 52.1 |
| 10.00 to <100.00 | 2 | 13.5 | <0.1 | 48.6 | 1.0 | 5 | 307.1 |
| 100.00 (default) | 15 | | <0.1 | | | 16 | 106.0 |
| Subtotal | 59,262 | 0.3 | 17.6 | 38.8 | 0.6 | 19,397 | 32.7 |

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CCR4: IRB – CCR exposures by portfolio and PD scale (continued)

| <i>USD million, except where indicated</i> | EAD post-CRM | Average PD in % | Number of obligors (in thousands) | Average LGD in % | Average maturity in years | RWA | RWA density in % |
|--|-----------------|--------------------|---|---------------------|---------------------------------|---------------|------------------------|
| Retail: other retail as of 31.12.18 | | | | | | | |
| 0.00 to <0.15 | 9,749 | 0.0 | 15.1 | 28.0 | | 362 | 3.7 |
| 0.15 to <0.25 | 19 | 0.2 | 0.3 | 28.2 | | 2 | 10.8 |
| 0.25 to <0.50 | 126 | 0.4 | 0.1 | 29.5 | | 23 | 18.2 |
| 0.50 to <0.75 | 30 | 0.6 | 0.1 | 28.0 | | 7 | 24.2 |
| 0.75 to <2.50 | 271 | 1.1 | 9.0 | 29.6 | | 87 | 32.1 |
| 2.50 to <10.00 | 11 | 2.9 | 0.1 | 27.9 | | 5 | 42.0 |
| 10.00 to <100.00 | 4 | 21.3 | <0.1 | 30.1 | | 3 | 70.4 |
| 100.00 (default) | | | | | | | |
| Subtotal | 10,211 | 0.1 | 24.6 | 28.1 | | 489 | 4.8 |
| Retail: other retail as of 30.6.18 | | | | | | | |
| 0.00 to <0.15 | 7,977 | 0.0 | 17.1 | 27.8 | | 294.7 | 3.7 |
| 0.15 to <0.25 | 311 | 0.2 | 0.2 | 61.1 | | 72.9 | 23.5 |
| 0.25 to <0.50 | 61 | 0.3 | 0.1 | 27.2 | | 10.3 | 16.8 |
| 0.50 to <0.75 | 11 | 0.6 | 0.1 | 27.0 | | 2.5 | 23.4 |
| 0.75 to <2.50 | 340 | 1.0 | 11.2 | 29.8 | | 117.9 | 34.7 |
| 2.50 to <10.00 | 15 | 3.8 | 0.1 | 29.1 | | 6.7 | 44.7 |
| 10.00 to <100.00 | 5 | 21.4 | 0.1 | 29.4 | | 3.3 | 69.7 |
| 100.00 (default) | | | | | | | |
| Subtotal | 8,719 | 0.1 | 29.0 | 29.0 | | 508.3 | 5.8 |
| Retail: other retail as of 31.12.17 | | | | | | | |
| 0.00 to <0.15 | 7,111 | 0.0 | 13.9 | 27.2 | | 256 | 3.6 |
| 0.15 to <0.25 | 198 | 0.2 | 0.1 | 28.9 | | 22 | 11.1 |
| 0.25 to <0.50 | 44 | 0.4 | 0.1 | 29.3 | | 8 | 18.1 |
| 0.50 to <0.75 | 13 | 0.6 | 0.1 | 28.8 | | 3 | 24.9 |
| 0.75 to <2.50 | 324 | 1.0 | 10.4 | 29.7 | | 114 | 35.3 |
| 2.50 to <10.00 | 43 | 3.9 | 0.2 | 29.4 | | 20 | 45.2 |
| 10.00 to <100.00 | 4 | 20.2 | 0.1 | 32.1 | | 3 | 74.5 |
| 100.00 (default) | | | | | | | |
| Subtotal | 7,737 | 0.1 | 24.8 | 27.4 | | 426 | 5.5 |
| Total 31.12.18 | 93,933 | 0.2 | 43.4 | 41.0 | 0.7 | 27,075 | 28.8 |
| Total 30.6.18 | 109,422 | 0.2 | 48.7 | 41.8 | 0.7 | 29,316 | 26.8 |
| Total 31.12.17 | 103,037 | 0.3 | 45.0 | 42.6 | 0.8 | 27,528 | 26.7 |

1 Includes exposures to managed funds.

P

Semiannual I

Fair value of collateral posted for securities financing transactions increased by USD 18.6 billion to USD 477.6 billion, mainly in Group ALM, resulting from higher client activity. p

Semiannual I

CCR5: Composition of collateral for CCR exposure¹

| USD million | Collateral used in derivative transactions | | | | | | Collateral u |
|---|--|---------------|---------------|---------------------------------|---------------|---------------|-----------------------------------|
| | Fair value of collateral received | | | Fair value of posted collateral | | | SFTs |
| | Segregated ² | Unsegregated | Total | Segregated ³ | Unsegregated | Total | Fair value of collateral received |
| 31.12.18 | | | | | | | |
| Cash – domestic currency (USD) | 2,042 | 16,958 | 19,000 | 1,221 | 6,980 | 8,200 | 33,134 |
| Cash – other currencies | | 19,784 | 19,285 | 1,591 | 13,808 | 15,399 | 12,987 |
| Sovereign debt | 5,552 | 8,656 | 14,208 | 7,995 | 5,444 | 13,439 | 252,257 |
| Other debt securities | | 2,277 | 2,277 | 812 | 135 | 946 | 79,359 |
| Equity securities | 4,778 | 23 | 4,801 | 1,570 | 1,465 | 3,035 | 243,027 |
| Total | 12,372 | 47,698 | 59,571 | 13,190 | 27,831 | 41,020 | 620,764 |
| 30.6.18 | | | | | | | |
| Cash – domestic currency (USD) ⁴ | 2,864 | 16,970 | 19,834 | 1,550 | 7,061 | 8,611 | 27,779 |
| Cash – other currencies ⁴ | | 22,151 | 22,151 | 1,704 | 14,796 | 16,500 | 15,317 |
| Sovereign debt | 1,594 | 8,929 | 10,523 | 3,773 | 8,448 | 12,221 | 203,678 |
| Other debt securities | | 1,427 | 1,427 | 5 | 1,106 | 1,111 | 80,589 |
| Equity securities | 4,424 | 36 | 4,460 | 1,611 | 1,593 | 3,203 | 293,287 |
| Total | 8,882 | 49,513 | 58,395 | 8,643 | 33,004 | 41,647 | 620,650 |

31.12.17

| | | | | | | | |
|---|--------------|---------------|---------------|--------------|---------------|---------------|----------------|
| Cash – domestic currency (USD) ⁴ | 2,459 | 16,298 | 18,757 | 1,135 | 6,011 | 7,146 | 29,612 |
| Cash – other currencies ⁴ | | 20,524 | 20,524 | 1,809 | 15,256 | 17,065 | 12,493 |
| Sovereign debt | 1,723 | 10,391 | 12,114 | 3,555 | 7,751 | 11,306 | 219,538 |
| Other debt securities | | 1,211 | 1,211 | 5 | 1,368 | 1,373 | 73,512 |
| Equity securities | 2,898 | 45 | 2,943 | 1,828 | 1,147 | 2,975 | 305,891 |
| Total | 7,080 | 48,469 | 55,549 | 8,331 | 31,534 | 39,865 | 641,046 |

1 This table includes collateral received and posted with and without the right of rehypothecation, but excludes securities placed with central banks related to undrawn credit lines and for payment, clearing and settlement purposes for which there were no associated liabilities or contingent liabilities. 2 Includes collateral received in derivative transactions, primarily initial margins, that is placed with a third-party custodian and to which UBS has access only in the case of counterparty default. 3 Includes collateral posted to central counterparties, where we apply a 0% risk weight for trades that we have entered in the name of a client and where the client has signed a legally enforceable agreement stipulating that the default risk of that central counterparty is carried by the client. 4 The presentation of 'cash - domestic currency' was aligned with US dollars as the new presentation currency applied for UBS Group AG's IFRS consolidated financial statements as of 31 December 2018.

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UBS Group AG consolidated

Semiannual I Notionals for credit derivatives decreased by USD 4.4 billion for protection bought and USD 4.1 billion for protection sold, primarily as a result of continued reductions in our Corporate Center – Non-core and Legacy Portfolio.^p

Semiannual I**CCR6: Credit derivatives exposures**

| <i>USD million</i> | 31.12.18 | | 30.6.18 | | 31.12.17 | |
|--|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|
| | Protection bought | Protection sold | Protection bought | Protection sold | Protection bought | Protection sold |
| Notionals¹ | | | | | | |
| Single-name credit default swaps | 43,265 | 44,875 | 48,609 | 48,154 | 62,884 | 57,117 |
| Index credit default swaps | 37,006 | 32,309 | 34,288 | 33,438 | 39,258 | 39,365 |
| Total return swaps | 4,726 | 1,976 | 4,497 | 1,665 | 4,551 | 1,703 |
| Credit options | 4,065 | 57 | 6,087 | 58 | 4,400 | 60 |
| Other credit derivatives | | | | | | |
| Total notionals | 89,063 | 79,218 | 93,481 | 83,316 | 111,093 | 98,244 |
| Fair values | | | | | | |
| <i>Positive fair value (asset)</i> | 1,117 | 815 | 940 | 1,217 | 813 | 2,088 |
| <i>Negative fair value (liability)</i> | 1,612 | 1,232 | 1,943 | 1,328 | 2,996 | 910 |

¹ Includes notional amounts for client-cleared transactions.

^p

Section 6 Comparison of A-IRB approach and standardized approach for credit risk

Background

Annual | In accordance with current prudential regulations, FINMA has approved our use of the advanced internal ratings-based (A-IRB) approach for calculating the required capital for a majority of our credit risk exposures.

The principal differences between the standardized approach (SA) and the A-IRB approach identified below are based on the current SA rules without consideration of the material revisions announced by the Basel Committee on Banking Supervision (BCBS) in December 2017.

We believe that advanced approaches that adequately capture economic risks are paramount for the appropriate representation of the capital requirements related to risk-taking activities. Within a strong risk control framework and in combination with robust stress testing practices, strict risk limits, as well as leverage and liquidity requirements, advanced approaches promote a proactive risk culture, putting the right incentives in place to prudently manage risks.

Refer to the “Introduction and basis for preparation” section of this report for more information on FINMA-defined asset classes.[p](#)

Key methodological differences between A-IRB and current SA approaches

Annual | In line with the BCBS objective, the A-IRB approach seeks to balance the maintenance of prudent levels of capital while encouraging, where appropriate, the use of advanced risk management techniques. By design, the calibration of the current SA rules and the A-IRB approaches is such that low-risk, short-maturity, well-collateralized portfolios across the various asset classes (with the exception of Central governments and central banks) receive lower risk weights under the A-IRB than under the current SA rules. Accordingly, RWA and capital requirements under the current SA rules would be substantially higher than under the A-IRB approach for lower-risk portfolios. Conversely, RWA for higher-risk portfolios are higher under the A-IRB than under the current SA approach.

Differences primarily arise due to the measurement of exposure at default (EAD) and to the risk weights applied. In both cases, the treatment of risk mitigation such as collateral can have a significant effect.

EAD measurement

For the measurement of EAD, the main differences relate to derivatives, driven by the differences between the internal model method (IMM) and the regulatory prescribed current exposure method (CEM).

The model-based approaches to derive estimates of EAD for derivatives and securities financing transactions reflect the detailed characteristics of individual transactions. They

model the range of possible exposure outcomes across all transactions within the same legally enforceable netting set at various future time points. This assesses the net amount that may be owed to us or that we may owe to others, taking into account the effect of correlated market moves over the potential time it could take to close out a position. The calculation considers current market conditions and is therefore sensitive to deteriorations in the market environment.

In contrast, EAD under the regulatory prescribed rules are calculated as replacement costs at the balance sheet date plus regulatory add-ons, which take into account potential future market movements but at predetermined fixed rates, which are not sensitive to changes in market conditions. These add-ons are crudely differentiated by reference to only five product types and three maturity buckets. Moreover, the current regulatory prescribed rules calculation gives very limited recognition to the benefits of diversification across transactions within the same legally enforceable netting set. As a result, large diversified portfolios, such as those arising from our activities with other market-making banks, will generate much higher EAD under the current regulatory prescribed rules than under the model-based approach.

Risk weights

Under the A-IRB approach, risk weights are assigned according to the bank's internal credit assessment of the counterparty to determine the probability of default (PD) and loss given default (LGD).

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The PD is an estimate of the likelihood of a counterparty defaulting on its contractual obligations. It is assessed using rating tools tailored to the various categories of counterparties. Statistically developed scorecards, based on key attributes of the obligor, are used to determine PD for many of our corporate clients and for loans secured by real estate. Where available, market data may also be used to derive the PD for large corporate counterparties. For Lombard loans, Merton-type model simulations are used that take into account potential changes in the value of securities collateral. PD is not only an integral part of the credit risk measurement, but also an important input for determining the level of credit approval required for any given transaction. Moreover, for the purpose of capital underpinning, the majority of counterparty PDs are subject to a floor.

The LGD is an estimate of the magnitude of the likely loss if there is a default. The calculation takes into account the loss of principal, interest and other amounts such as workout costs, including the cost of carrying an impaired position during the workout process less recovered amounts. Importantly, LGD considers credit mitigation by way of collateral or guarantees, with the estimates being supported by our internal historical loss data and external information where available.

The combination of PD and LGD determined at the counterparty level results in a highly granular level of differentiation of the economic risk from different borrowers and transactions.

In contrast, the SA risk weights are largely reliant on external rating agencies' assessments of the credit quality of the counterparty, with a 100% risk weight typically being applied where no external rating is available. Even where external ratings are available, there is only a coarse granularity of risk weights, with only four primary risk weights used for differentiating counterparties, with the addition of a 0% risk weight for AA- or better rated Central governments and central banks. Risk weights of 35% and 75% are used for mortgages and retail exposures, respectively.

The SA does not differentiate across transaction maturities except for interbank lending, albeit in a very simplistic manner considering only shorter or longer than three months. This has clear limitations. For example, the economic risk of a six-month loan to, say, a BB-rated US corporate is significantly different to that of a 10-year loan to the same borrower. This difference is evident from the distinction of PD levels based on ratings assigned by external rating agencies through their separate ratings for short-term and long-term debt for a given issuer.

The SA typically assigns lower risk weights to sub-investment grade counterparties than the A-IRB approach, thereby potentially understating the economic risk. Conversely, investment grade counterparties typically receive higher risk weights under the SA than under the A-IRB approach.

Maturity is also an important factor, with the A-IRB approach producing a higher capital requirement for longer maturity exposures than for shorter maturity exposures. Since the accelerated implementation of our strategy in 2012, the maturity effect has become particularly important as we had a notable shift from longer-term to shorter-term transactions in our credit portfolio.

Additionally, under the A-IRB approach we calculate expected loss measures that are deducted from common equity tier 1 (CET1) capital to the extent that they exceed general provisions, which is not the case under the SA.

Given the divergence between the SA and the economic risk, which is better represented under the A-IRB approach, particularly for lower-grade counterparties, there is a risk that applying the SA could incentivize higher risk-taking without a commensurate increase in required capital. ^p

Comparison of the A-IRB approach EAD and leverage ratio denominator by asset class

Annual | The following table shows EAD, average risk weight (RW), RWA and leverage ratio denominator (LRD) per asset class for Central governments and central banks, Multilateral development banks and Public-sector entities, Banks and securities dealers, Corporates and Retail credit risk and counterparty credit risk exposures subject to the A-IRB approach. LRD is the exposure measure used for the leverage ratio.

LRD estimates presented in the table reflect the credit risk and counterparty credit risk components of exposures only and are therefore not representative of the LRD requirement at bank level overall. The LRD estimates exclude exposures subject to market risk, non-counterparty-related risk and SA credit risk to provide a like-for-like comparison with the A-IRB credit risk EAD shown. ^p

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Breakdown by asset classes

| <i>in USD billion, except where indicated</i> | A-IRB | | | LRD |
|---|--------------|-------------|------------|------------|
| | EAD | RW % | RWA | |
| Central governments and central banks | 149 | 2 | 4 | 160 |
| Multilateral development banks | 5 | 2 | 0 | 4 |
| Public-sector entities | 6 | 17 | 1 | 7 |
| Banks and securities dealers | 35 | 32 | 11 | 77 |
| Corporates | 136 | 46 | 62 | 227 |
| Retail | 297 | 12 | 36 | 278 |
| <i>of which: residential mortgages</i> | <i>142</i> | <i>19</i> | <i>27</i> | <i>148</i> |
| <i>of which: Lombard lending</i> | <i>153</i> | <i>6</i> | <i>9</i> | <i>124</i> |

^p

Comparison of the A-IRB approach, the SA and LRD by asset class

Annual | The differences between the A-IRB approach, the SA and LRD per asset class are discussed below and on the following pages.

Asset classes Central governments and central banks, Multilateral development banks and Public sector entities

The regulatory net EAD for Central governments and central banks, Multilateral development banks (MDBs) and Public sector entities (PSEs) is USD 160 billion under the A-IRB approach. Since the vast majority of our exposure is driven by banking products exposures, the LRD is broadly in line with the A-IRB net EAD and we would expect a similar amount under the SA.

The charts below provide comparisons of risk weights for exposures to the asset classes Central governments and central banks, highly rated MDBs and other MDBs and PSEs calculated under the A-IRB approach and the SA. Risk weights under the A-IRB approach are shown for one-year and five-year maturities, both assuming an LGD of 45%. Our internal A-IRB ratings have been mapped to external ratings based on the long-term average of one-year default rates available from the major credit rating agencies, as described on page 147 of our Annual Report 2018.

The SA assigns a zero risk weight to central governments and central banks rated AA– and better and to highly rated MDB counterparties, while the A-IRB approach generally assigns risk weights higher than zero even for the highest-quality sovereign counterparties.

For other MDB and PSE counterparties rated AA- and better, the risk weight applied is 20%.

Despite this, we would expect an increase in average risk weight under the SA due to exposures to unrated counterparties such as sovereign wealth funds, which attract a 100% risk weight under the SA despite being generally considered very low risk, and short-term repo transactions with central banks rated below AA-, such as the Bank of Japan.

However, as the asset class is not a significant driver of RWA, we would expect any resulting increase in RWA to be relatively small.

Asset class Banks and securities dealers

The regulatory net EAD for exposures to the asset class Banks and securities dealers is USD 35 billion under the A-IRB approach. The A-IRB net EAD is lower compared with the LRD as a result of collateral mitigation on derivatives and securities financing transactions. We would expect the net EAD to increase significantly under the regulatory prescribed rules related to derivatives and securities financing transactions within the Investment Bank, due to the aforementioned methodological differences between the calculation of EAD under the two approaches.

The chart below provides a comparison of risk weights for SA.

The vast majority of our exposure toward Banks and securities dealers is of investment grade quality. The average contractual maturity of this exposure is closer to the one-year example provided in the chart above. Therefore, we would expect a higher average risk weight under the SA than the 25% average risk weight under the A-IRB approach. In combination with higher EAD, we would expect this to lead to significantly higher RWA for Banks and securities dealers under the SA.

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Asset class Corporates

The regulatory net EAD for the asset class Corporates is USD 136 billion under the A-IRB approach. The A-IRB net EAD is lower compared with the LRD as a result of collateral mitigation on derivatives and securities financing transactions. We would expect the EAD figure to be higher under the regulatory prescribed rules related to derivatives and securities financing transactions due to the aforementioned methodological differences between the calculation of EAD under the two approaches. Derivatives and securities financing transactions currently account for 40% of the EAD for this asset class.

The following chart provides a comparison of risk weights for Corporates exposures calculated under the A-IRB approach and the SA. These exposures primarily arise from corporate lending and derivatives trading within the Investment Bank, and lending to large corporates and small and medium-sized enterprises within Switzerland. The comparison does not include the FINMA-required multiplier applied to Investment Bank Corporates exposures under A-IRB.

Investment grade counterparties typically receive higher risk weights under the SA than under the A-IRB approach. The majority of our Corporates exposures fall into this category. We would therefore expect risk weights for Corporates to be generally higher under the SA.

In addition, SA risk weights rely on external ratings, with a default weighting of 100% being applied where no external rating is available. Typically, counterparties with no external rating are riskier and thus have higher risk weights under the A-IRB approach. However, managed funds, which comprise nearly one-third of our Corporates EAD, typically have no debt and are therefore unrated. The SA applies a 100% risk weight to exposures to these funds. Under A-IRB, these funds are considered very low risk and have an average risk weight of 17%. We believe the SA significantly overstates the associated risk.

Conversely, for certain exposures, we consider the risk weight of 100% under the SA resulting from the absence of an external rating as insufficient, as evident from the hypothetical leveraged finance counterparty example in the table below. [p](#)

Annual | Comparison of risk weights as a function of internal rating assessment

The table assumes two counterparties without external rating assignment.

| | | | | | | | | |
|--------------------------------|-----|-------|-------|------|-------|------|----------|------|
| | | | | | | | | |
| Managed funds | NA | NA | 0 | 100% | AAA-A | < 1Y | 10-20% | 100% |
| Leveraged finance counterparty | < 2 | > 2.5 | > 50% | 0% | BB-C | > 5Y | 100-250% | 100% |

P

Asset class Retail

Sub-asset class Residential mortgages

The regulatory net EAD for the sub-asset class Residential mortgages is USD 142 billion under the A-IRB approach. Since the vast majority is driven by banking products exposures, the LRD is broadly in line with the A-IRB net EAD and we would expect a similar amount under the SA.

Due to the size of our personal and corporate banking business in Switzerland, our domestic portfolios represent a significant portion of our overall lending exposures, with the largest being loans secured by residential properties.

Our internal models assign risk weights to such loans by considering the debt service capacity of borrowers as well as the availability of other collateral, amongst other factors. These are important considerations for the Swiss market, where there is legal recourse to the borrower.

In contrast, and different to the assignment of risk weights for asset classes above, the SA only crudely differentiates the risk weights based on loan-to-value (LTV) ranges as shown in the table below.

The vast majority of our exposures would attract the minimum 35% risk weight under the SA, compared with the average of 15% observed under the A-IRB approach.

The difference is largely due to the current SA rules not giving benefit to the portion of exposures with an LTV below 67%. The vast majority of exposures fall within this category, as shown in the "Swiss mortgages: distribution of net exposure at default (EAD) across exposure segments and loan-to-value (LTV) buckets" table on page 138 of our Annual Report 2018.

Sub-asset class Lombard lending

Annual | The regulatory net EAD for the sub-asset class Lombard loans is USD 153 billion under the A-IRB approach as of 31 December 2018 and mainly arises in our wealth management businesses.

Eligible collateral is more limited under the SA than under A-IRB. However, the haircuts applied to collateral under the A-IRB approach are generally greater than those prescribed under the SA. Given this, we would expect the overall effect of applying current SA rules to be limited for this portfolio. p

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Section 7 Securitizations

Introduction

Annual | This section provides details of traditional and synthetic securitization exposures in the banking and trading book based on the revised Basel III securitization framework, applicable since 1 January 2018, which incorporated changes to the treatment of banking book securitization positions.

In a traditional securitization, a pool of loans (or other debt obligations) is transferred to structured entities that have been established to own the loan pool and to issue tranching securities to third-party investors referencing this pool of loans. In a synthetic securitization, legal ownership of securitized pools of assets is typically retained, but associated credit risk is transferred to structured entities typically through guarantees, credit derivatives or credit-linked notes. Hybrid structures with a mix of traditional and synthetic features are disclosed as synthetic securitizations.

We act in different roles in securitization transactions. As originator, we create or purchase financial assets, which are then securitized in traditional or synthetic securitization transactions, enabling us to transfer significant risk to third-party investors. As sponsor, we manage, provide financing for or advice on securitization programs. In line with the Basel III framework, sponsoring includes underwriting activities. In all other cases, we act in the role of investor by taking securitization positions. [p](#)

Objectives, roles and involvement

Securitization in the banking book

Annual | Securitization positions held in the banking book include legacy risk positions in Corporate Center – Non-core and Legacy Portfolio. In 2018, for the majority of securitization carrying values on the balance sheet, we acted in the role of originator or investor.

Securitization and resecuritization positions in the banking book are measured at fair value, reflecting market prices where available or based on our internal pricing models. [p](#)

Securitization in the trading book

Annual | Securitizations held in the trading book are part of trading activities, including market-making and client facilitation, that could result in retention of certain securitization positions as an investor, including those that we may have originated or sponsored. In the trading book, securitization and resecuritization positions are measured at fair value, reflecting market prices where available, or based on our internal pricing models. [p](#)

Type of structured entities and affiliated entities involved in securitization transactions

Annual | For the securitization of third-party exposures, the type of structured entities or special purpose vehicles employed is selected as appropriate based on the type of transaction undertaken. Examples include limited liability companies, common law trusts and depositor entities.

We also manage or advise groups of affiliated entities that invest in exposures we have securitized or in structured entities that we sponsor.

Refer to Note 31 “Interests in subsidiaries and other entities” on pages 485–492 of our Annual Report 2018 for further information on interests in structured entities. [p](#)

Managing and monitoring of the credit and market risk of securitization positions

Annual | The banking book securitization and resecuritization portfolio is subject to specific risk monitoring, which may include interest rate and credit spread sensitivity analysis, as well as inclusion in firm-wide earnings-at-risk, capital-at-risk and combined stress test metrics.

The trading book securitization positions are also subject to multiple risk limits, such as management value-at-risk (VaR) and stress limits as well as market value limits. As part of managing risks within predefined risk limits, traders may utilize hedging and risk mitigation strategies. Hedging may, however, expose the firm to basis risks as the hedging instrument and the position being hedged may not always move in parallel. Such basis risks are managed within the overall limits. Any retained securitization from origination activities and any purchased securitization positions are governed by risk limits together with any other trading positions. Legacy trading book securitization exposure is subject to the same management VaR limit framework. Additionally, risk limits are used to control the unwinding, novation and asset sales process on an ongoing basis. [p](#)

Accounting policies

Annual | Refer to “Consolidation” on pages 328–329 in “Note 1 Summary of significant accounting policies” in the “Consolidated financial statements” section of our Annual Report 2018 for information on accounting policies that relate to securitization activities. [p](#)

Regulatory capital treatment of securitization exposures

Annual | With the implementation of the revised securitization framework as of 1 January 2018 for banking book securitization exposures, the following approaches to calculate the associated risk-weighted assets (RWA) have become available, each with specific preconditions that must be met:

- we use internal ratings (internal ratings-based approach (SEC-IRBA)) if the securitized pool largely consists of internal ratings-based positions and internal ratings are available;
- if the IRBA cannot be applied, we use external ratings (external ratings-based approach (SEC-ERBA)), if available, from Standard & Poor's, Moody's Investors Service and Fitch Ratings for securitization exposures, provided that we are able to demonstrate our expertise in critically challenging and reviewing the external ratings; or
- if we cannot apply the IRBA or ERBA methods, we apply the standardized approach (SEC-SA) where the delinquency status of a significant portion of the underlying exposure can be determined or a risk weight of 1,250%. Resecuritization positions are either treated under the standardized approach or with a 1,250% risk weight.

The selection of the external credit assessment institutions (ECAI) is based on the primary rating agency concept. This concept is applied, in principle, to avoid having the credit assessment by one ECAI applied to one or more tranches and by another ECAI to the other tranches, unless this is the result of the application of the specific rules for multiple assessments. If any two of the aforementioned rating agencies have issued a rating for a particular exposure, we would apply the lower of the two credit ratings. If all three rating agencies have issued a rating for a particular exposure, we would apply the middle of the three credit ratings. As of 31 December 2018, UBS did not use internal ratings for the purpose of the RWA calculation for securitization positions in the banking book. [p](#)

Securitization exposures in the banking and trading book

Semiannual | The tables "SEC1: Securitization exposures in the banking book" and "SEC2: Securitization exposures in the trading book" outline the carrying values on the balance sheet in the banking and trading books as of 31 December 2018, 30 June 2018 and 31 December 2017. The activity is further broken down by our role (originator, sponsor or investor) and by securitization type (traditional or synthetic). Amounts disclosed under the "Traditional" column of these tables reflect the total outstanding notes at par value issued by the securitization vehicle at issuance. For synthetic securitization transactions, the amounts disclosed generally reflect the balance sheet carrying values of the securitized exposures at issuance.

The tables "SEC3: Securitization exposures in the banking book and associated regulatory capital requirements – bank acting as originator or as sponsor" and "SEC4: Securitization exposures in the banking book and associated regulatory capital requirements – bank acting as investor" have been modified to reflect changes to the revised securitization framework.

Development in RWA related to securitization exposures in the banking book in the second half of 2018

RWA from securitization exposures from the banking book decreased by USD 0.6 billion due to rating changes for exposures under the external ratings-based approach.

For information on the development of RWA in the first half of 2018 refer to our 30 June 2018 Pillar 3 report – UBS Group and significant subsidiaries and sub-groups under “Pillar 3 disclosures” at www.ubs.com/investors. **p**

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Semiannual I

SEC1: Securitization exposures in the banking book

| USD million | Bank acts as originator | | | Bank acts as sponsor | | | Bank acts as orig sponsor | |
|-------------|-------------------------|-----------|----------|----------------------|-----------|----------|------------------------------|-----------|
| | Traditional | Synthetic | Subtotal | Traditional | Synthetic | Subtotal | Traditional | Synthetic |

31.12.18**Asset classes**

| | | | | | | | | |
|---|-----------|--|-----------|----------|--|----------|--|--|
| 1 Retail (total) | 87 | | 87 | | | | | |
| of which: | | | | | | | | |
| 2 Residential mortgage | 87 | | 87 | | | | | |
| 3 Credit card receivables | | | | | | | | |
| 4 Student loans | | | | | | | | |
| 5 Consumer loans | | | | | | | | |
| 6 Other retail exposures | | | | | | | | |
| 7 Wholesale (total) | | | | 0 | | 0 | | |
| of which: | | | | | | | | |
| 8 Loans to corporates or SME | | | | | | | | |
| 9 Commercial mortgage | | | | 0 | | 0 | | |
| 10 Lease and receivables | | | | | | | | |
| 11 Trade receivables | | | | | | | | |
| 12 Other wholesale | | | | | | | | |
| 13 Re-securitization | | | | | | | | |
| 14 Total securitization / re-securitization (including retail and wholesale) | 87 | | 87 | 0 | | 0 | | |

30.6.18**Asset classes**

| | | | | | | | | |
|---------------------------|----|--|----|--|--|--|--|--|
| 1 Retail (total) | 92 | | 92 | | | | | |
| of which: | | | | | | | | |
| 2 Residential mortgage | 92 | | 92 | | | | | |
| 3 Credit card receivables | | | | | | | | |
| 4 Student loans | | | | | | | | |
| 5 Consumer loans | | | | | | | | |
| 6 | | | | | | | | |

| | | |
|---|-----------|-----------|
| <i>Other retail exposures</i> | | |
| 7 Wholesale (total) | | |
| <i>of which:</i> | | |
| 8 <i>Loans to corporates or SME</i> | | |
| 9 <i>Commercial mortgage</i> | | |
| 10 <i>Lease and receivables</i> | | |
| 11 <i>Trade receivables</i> | | |
| 12 <i>Other wholesale</i> | | |
| 13 Re-securitization | | |
| 14 Total securitization / re-securitization (including retail and wholesale) | 92 | 92 |