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March 15, 2019

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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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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

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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
		– Risk categories	121
		– Top and emerging risks	122
		– Risk appetite framework	125–128
		– Risk measurement	130–132
		– Credit risk – Key developments, Main sources of credit risk, Overview of measurement, monitoring and management techniques	133
		– Market risk – Key developments, Main sources of market risk, Overview of measurement, monitoring and management techniques	154
		– Interest rate risk in the banking book	159–163

		- Other market risk exposures	163–164
		- Country risk framework	165
		- Operational risk framework	171
		- Risk management and control principles	126
Risk governance	Risk, treasury and capital management	- Risk categories	121
		- Risk governance	123–124
		- Treasury management – Strategy, objectives and governance	173
		- Capital management – Capital management objectives, planning and activities	194–195
Communication and enforcement of risk culture within the bank	Risk, treasury and capital management	- Risk governance	123–124
		- Risk appetite framework	125–128
		- Internal risk reporting	129
		- Operational risk framework	171
Scope and main features of risk measurement systems	Risk, treasury and capital management	- Risk measurement	130–132
		- Credit risk – Overview of measurement, monitoring and management techniques	133
		- Market risk – Overview of measurement, monitoring and management techniques	154
		- Country risk exposure measure	165
		- Advanced measurement approach model	172
Risk information reporting	Risk, treasury and capital management	- Risk governance	123–124
		- Internal risk reporting	129
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		Risk management and control principles	
Stress testing	Risk, treasury and capital management	– Risk appetite framework	125–128
		– Stress testing	130–131
		– Credit risk models – Stress loss	149–150
		– Market risk stress loss	155
		– Interest rate risk in the banking book	159–163
		– Other market risk exposures	163–164
		– Assets and liquidity management – Stress testing	181
		– Credit risk – Overview of measurement, monitoring and management techniques	133
Strategies and processes applied to manage, hedge and mitigate risks	Risk, treasury and capital management	– Credit risk mitigation	143–145
		– Market risk – Overview of measurement, monitoring and management techniques	154
		– Value-at-risk	155–158
		– Interest rate risk in the banking book	159–163
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		– Country risk exposure	165–169
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		– Note 11 Derivative instruments	395–399
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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.</p> <p>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.</p> <p>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>

	Refer to section 8 Market risk.	As the RWA from RniV are add-ons, they do not reflect any diversification benefits across risks capitalized through VaR and SVaR.
Incremental risk charge (IRC)	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.	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.
Comprehensive risk measure (CRM)	Refer to section 8 Market risk. 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.	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.
	Refer to section 8 Market risk.	

<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.

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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
of which:						
3 foundation internal ratings-based (F-IRB) approach						
of which:						
4 supervisory slotting approach						
of which: advanced						
5 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
of which: SA for						
7 counterparty credit risk (SA-CCR) ⁵	5,415	5,690	6,312	6,381	5,719	433
of which: internal						
8 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	<i>model approaches (IMM)</i>	19,541	11,313	12,136	23,072	12,188	1,563
	Capital charge for switch between trading book and banking book						
23	Operational risk						
24	Amounts below thresholds for deduction (250% risk weight)⁹	77,558	80,931	80,124	83,308	81,476	6,205
25	Floor adjustment¹⁰	11,365	10,842	10,621	10,755	11,508	909
26		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

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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
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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.

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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.

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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

UBS Group AG consolidated

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	– Note 24b Valuation governance	430
	Consolidated financial statements	– Note 24d Valuation adjustments	437–439

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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

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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	123–124
		– Risk appetite framework	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.

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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.

P

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

P

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>	412	1,815	2,227	1,215	320	
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>	667	1,493	2,160	1,055	255	
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>	737	1,422	2,158	892	295	

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.

P

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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

30.6.18

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
	<i>of which:</i>							
9	mortgage loans		6,133		116	392		6,642
10	<i>of which: past due¹</i>					109		109

31.12.17

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
	<i>of which:</i>							
9	mortgage loans		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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UBS Group AG consolidated

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

UBS Group AG consolidated

**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)**

<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 PD in %	Average Number of obligors (in thousands)	Average LGD in m %
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**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

UBS Group AG consolidated

**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
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**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
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**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

UBS Group AG consolidated

**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
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**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
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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 Average post-CRM ¹ PD in %	Number of obligors (in thousands)	Average LGD in %	Average maturity in years
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**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	256.2⁴	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) Subtotal	96	7	103	0	11		<0.1		
	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) Subtotal	91	9	100	5	17		<0.1		
	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.

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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 PD	Number of obligors (in thousands)	Defaulted obligors in the year	of w defa obl i	
	Moody's	Standard & Poor's	Fitch					Weighted average PD in %
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)	End of previous year	End of the year	Defaulted obligors in 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

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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 (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 PD in %	End of previous year		
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)	Number of obligors		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		
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	Weighted average obligors in %	Number of obligors (in thousands)		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		
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	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: 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

P

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 counterparties	165	(62)	103	(30)	(134)	(163)	(238)	(48)	(286)
5 Model updates	(116)	(57)	(173)	285	0	285	0	0	285
6 Methodology and policy	227	64	291	222	56	278	229	64	293
7 of which:									
8 regulatory add-ons	227	64	291	222	56	278	229	64	293
9 Acquisitions and disposals	0	0	0	0	0	0	0	0	0
10 Foreign exchange movements	(61)	(20)	(81)	(38)	(8)	(47)	(470)	(118)	(588)
11 Other	(220)	0	(220)	0	0	0	0	0	0
RWA as of the end of the quarter	17,624	5,036	22,660	18,366	4,863	23,229	18,548	4,458	23,006

^p

UBS Group AG consolidated

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	EAD post-CRM	RWA	
			EEPE			
31.12.18						
1 SA-CCR (for derivatives) ¹	8,670²	8,168		1.0¹	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

31.12.17

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

60

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

UBS Group AG consolidated

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

UBS Group AG consolidated

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

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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