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Abbreviations

ABS Asset-backed securities

AQT Asset quality risk indicator

CEBS Committee of European Banking Supervisors

CET1 Common equity Tier I capital ratio

CON Concentration risk indicator

COREP Common reporting

DRAT EBA detailed risk analysis tool

DTA Deferred taxation adjustments

EBA European Banking Authority

ECB European Central Bank

EEA European Economic Area

EL Expected losses

ELA Emergency liquidity assistance (ECB monetary operation)

FINREP Financial Reporting

FND Funding risk indicator

FSB Financial Stability Board

GAAP Generally accepted accounting principles

IFRS International Financial Reporting Standards

IP Immovable property

IRB Internal rating-based

KRI EBA key risk indicator

LCR Liquidity coverage ratio

LGD Loss given default

LIQ Liquidity risk indicator

MKR Market risk indicator

NACE Nomenclature of Economic Activities from the European System of National and Regional

Accounts

NSFR Net stable funding ratio

OPR Operational risk indicator



PD Probability of default

PFT Profitability risk indicator

RWA Risk-weighted asset

SA Standardised approach

SFT Secured financing transactions

SVC Solvency risk indicator

TLTRO Targeted longer-term refinancing operation (ECB monetary operation)

XBRL eXtensible Business Reporting Language



Introduction

Background

Since February 2011, the EBA has started collecting, on a quarterly basis, statistical information referring to a sample of 55 banks across 20 EEA countries, in order to compute 53 KRIs. KRIs are ratios providing early warning signs of trends, potential risks and vulnerabilities in the EU banking sector.

All their building components¹ relied on the existing COREP and FINREP reporting frameworks, previously endorsed by CEBS², and, therefore, a high degree of standardised concepts and definitions was ensured. However, not all competent authorities (CAs) had fully implemented these reporting guidelines and, as a result, they had to collect such data on a best-efforts basis, either: a) directly from the relevant financial institutions, or b) by mapping data available in national reporting formats onto the data items as defined in COREP and FINREP, or c) by using other sources to proxy the missing data.

To that end, KRIs constituted the minimum feasible set of metrics compiled by the EBA to undertake its micro-prudential analysis role and build meaningful risk dashboards and reports.

Over the past few years, the EBA has placed emphasis on uniform reporting requirements to ensure data availability and comparability. In particular, the EBA introduced the implementing technical standards (ITS) on supervisory reporting³, serving as the 'backbone' for the collection and compilation of EU supervisory statistics.

The ITS sets out the reporting requirements and defines the scope of institutions reporting frequency and the reference and remittance dates. It also includes annexes specifying the reporting requirements in the form of templates and instructions. Additionally, it provides reporting instructions with a Data Point Model (DPM) and a set of validation rules that ensure consistent application of the requirements, as published on the EBA website.⁴ The EBA has also developed XBRL taxonomies to facilitate data exchanges for the data concerned.

In terms of content, ITS cover fully harmonised supervisory reporting requirements for *solvency*, large exposures, real estate losses, financial information, liquidity, leverage ratio and asset encumbrance and provide a comprehensive set of harmonised data of all EU institutions. They also introduce harmonised definitions for non-performing and forborne exposures in order to promote a full comparison of the asset quality of EU banks. The information deriving from the

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¹ Raw data involved in the KRI numerators and denominators, collected according to the EBA DC 031/2011.

² FINREP rev1 as published by CEBS 24 July 2007, COREP as published by CEBS 6 January 2010.

³ Commission Implementing Regulation (EU) No 680/2014, laying down implementing technical standards with regard to supervisory reporting of institutions according to Regulation (EU) No 575/2013 of the European Parliament and the Council.

⁴ See also: The EBA publishes new DPM and XBRL taxonomy for remittance of supervisory reporting.



reporting requirements assists supervisors in their Pillar 1 monitoring and their assessments of Pillar 2 risks.

Box 1. Areas covered by the harmonised reporting requirements of the ITS on supervisory reporting

- a. Own funds requirements and financial information in accordance with Article 99 of Regulation (EU) No 575/2013;
- **b.** Losses stemming from lending collateralised by IP in accordance with Article 101(4)(a) of Regulation (EU) No 575/2013;
- Large exposures and other largest exposures in accordance with Article 394(1) of Regulation (EU)
 No 575/2013;
- d. Leverage ratio in accordance with Article 430 of Regulation (EU) No 575/2013;
- **e.** Liquidity coverage requirements and net stable funding requirements in accordance with Article 415 of Regulation (EU) No 575/2013;
- f. Asset encumbrance in accordance with Article 100 of Regulation (EU) No 575/2013;
- **g.** Supervisory benchmarking of internal approaches in accordance with Article 78(8) of Directive 2013/36/EU.

In light of the merits the ITS have brought – in terms of more granular information, data harmonisation, coverage, periodicity and timeliness – the EBA decided to enhance its current set of KRIs, developing a comprehensive set of risk indicators (RIs).

In the same vein, a set of DRATs was also identified. These tools go beyond the classical definition of indicators, which is based on ratios, and they use data presentation and visualisation techniques to increase the analytical power extracted by their underlying data components.

Purpose and structure of this Guide⁵

The primary purpose of this Guide is to serve the EBA compilers of risk indicators and internal users, presenting the risk indicators and the DRATs, and thus provide guidance on their concepts, data sources (i.e. precise ITS data points involved in their calculation), techniques upon which they are computed, and methodological issues that may assist in their accurate interpretation and use.

Furthermore, this Guide fosters transparency on the computation methodology, with regard to those indicators used in the context of the EBA official publications, such as the EBA's risk assessment report, risk dashboard and so on. This would allow the general public to understand how these indicators are computed.

Last but not least, this Guide enables other competent authorities to compute indicators following the same methodology, and thus compare in a consistent manner indicators for different samples of banks, as well as EU aggregates.

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⁵ The Guide has benefited from the valuable contributions and useful remarks provided by the EBA workstream on risk indicators (WSRI), endorsed by the Subgroup on Analysis and Tools (SGAT).



However, it has to be noted that this Guide is not intended to bind competent authorities and hence, it is not mandatory, but only aims at supporting computation of indicators, consistent with the EBA publications.

The Guide is a living document and, therefore, it may evolve periodically, reflecting new experiences and user needs or changes in EU supervisory reporting (i.e. ITS on supervisory reporting).

The Guide is structured in two parts. Part I presents the risk indicators by means of an introduction, along with a description of each of them, and concludes with a short reference to relevant methodological concerns, when those arise. Consequently, each risk indicator has been allocated either to one of the following eight categories, depending on the type of risk addressed (namely: *liquidity, funding, asset quality, profitability, concentration, solvency, operational and market risk*) or to the dedicated category for SME monitoring. Each of these categories has a dedicated chapter in Part I, while the Annex I, placed at the end of the Guide, illustrates the risk indicators' ID, name, formula (mathematical equation), computation frequency, range of their potential values, and their use and the phenomenon they intend to measure. Annex II provides the calculations and graphical representations (matrices) of the DRATs.

Finally, Part II discusses selective methodological issues that may arise when compiling or using the risk indicators and DRATs.



Part I. Risk indicators by type of risk

I.1 Liquidity risk

I.1.1. List of risk indicators and relevant DRATs

Table 1: List of LIQs and relevant DRATs

Number	Name	Number	Name
LIQ 1	Core funding ratio (% of total liabilities) – 'Turner ratio'	LIQ 9	Funding via derivatives (% of total items providing stable funding)
LIQ 2	Short-term wholesale funding Ratio (% of items providing stable funding)	LIQ 10	Firm specific currency concentration
LIQ 3	Liquid assets to short-term liabilities	LIQ 11	Cash and trading assets to total assets
LIQ 4	Liquid assets ratio (% of total items requiring stable funding)	LIQ 12	Cash, trading, and available-for-sale (AFS) assets to total assets
LIQ 5	Withdrawable funding (% of total liabilities)	LIQ 13	Financial assets held for trading to total assets
LIQ 6	Term funding (% of total liabilities)	LIQ 14	Financial liabilities held for trading to total liabilities and equity
LIQ 7	Share of central bank and publically guaranteed exposures within liquid assets	LIQ 15	Extremely high liquid assets to total liquid assets
LIQ 8	Repos to total liabilities	LIQ 16	Retail outflows to retail inflows

Number	Name
DRAT 27	Liquid assets to items requiring
DRAT 27	stable funding ratio by currency

I.1.2. Introduction

Liquidity risk refers to the risk of a firm being unable to fund its increases in assets or to meet its financial obligations as they fall due without incurring unacceptable costs or losses through fund raising and asset liquidation. This can be either the result of the financial institution's inability to manage unplanned decreases and changes in funding sources or their failure to recognise or address changes in market conditions that may affect the institution's ability to liquidate assets quickly and with minimal loss in value.

A liquidity crisis could potentially have a negative impact on earnings and capital and, in the extreme, could cause the collapse of an otherwise solvent institution. Earnings and growth



potential could also be negatively affected if an institution's liquidity position constrains it from undertaking a transaction at normal market price. Conversely, illiquidity may lead to foregone investment opportunities or fire sales of assets, which could ultimately result in insolvency.

The banking sector is inherently susceptible to liquidity risk, as credit institutions fulfil a maturity transformation role in the financial system, taking short-term deposits and savings and investing these funds in longer-term assets, such as mortgages.

Liquidity risk is also considered to be a systemic risk. The interconnectedness and general correlation of performance among financial sector institutions means that contagion effects can arise from liquidity crises in individual institutions. This has historically manifested itself in the form of bank runs, when a single failed institution triggers depositor runs for other institutions as well.

Moreover, liquidity risk could have systemic effects through other mechanisms. As seen in recent times, uncertainty about the solvency of institutions can lead to liquidity hoarding and a subsequent 'drying up' of credit in short-term interbank lending markets; liquidity crises can subsequently have spill over effects on the real economy in the form of reduced credit availability.

I.1.3. Description of the relevant risk indicators

The set of LIQs are mainly sourced from COREP liquidity templates, LCR: C 51.00 to C 54.00, NSFR: C 60.00 to C 63.00, as well as FINREP templates.

This set of indicators considers the composition of assets and liabilities from the perspective of their impact on the institution's liquidity. Within this category, there are indicators that directly compare institutions' holdings of certain types of assets against certain types of liabilities, such as liquid asset ratio (LIQ 4). Such indicators could be used to assess the share of liquid assets versus short-term cash outflows, i.e. LIQ 3. In the same vein, there are indicators that focus on the institution's asset composition or liability composition separately, such as the core funding ratio (LIQ 1), or share of extremely high liquid assets per total assets (LIQ 7).

On the assets side, this category of indicators is very handy to assess the relative liquidity of a firm's holdings, i.e. the ease with which banks could easily sell their assets without impacting their prices, or to consider the institution's reliance on certain types of assets that form their liquidity buffers. These metrics differ from risk indicators on asset quality, described in one of the following chapters, as they mainly focus on asset classes based on the firm's liquidity, rather than the probability of the assets deteriorating in value, despite having the two properties not orthogonal.

Similarly, indicators on the liability side look at the balance between stable or sticky liabilities versus shorter-term or readily withdrawable sources of funding. For instance, LIQ 5 outlines the proportion of liabilities that are withdrawable sources of funding. These include retail deposits and withdrawable liabilities from both financial and non-financial customers.



Due to the reporting requirements for major currencies, COREP liquidity templates also allow the analysis of liquidity risk for specific currencies (LIQ 10). Such indicators are important to consider, as liquidity is not always fungible across different currencies. A key use for such indicators is to identify potential liquidity shortfalls and risk areas for firms within different jurisdictions.

Besides these risk indicators, a DRAT covering liquidity has also been identified. This indicators can be compiled either at an institution level, assessing potential weaknesses in the positions held in a given currency, or at the level of the whole EU banking system in order to assess general patterns in the positions held in foreign currencies.

More particularly, DRAT 27 introduces a currency breakdown to LIQ 4, which was described earlier.

I.1.4. Further methodological issues and potential ways to address them

In general, users should have a good understanding of definitions concerning these indicators when trying to interpret them. For example, liquid assets are usually defined as those assets which meet the requirements of Articles 416 and 417 of the CRR, i.e. extremely high-quality liquid assets (HQLA), and their value is taken as described by Article 418, rather than at their market or balance sheet value. Article 418 states that assets are reported using their market value, subject to the appropriate haircuts for, at least, duration, credit and liquidity risk and typical repo haircuts under general market stress.

I.2 Funding risk

1.2.1. List of risk indicators and relevant DRATs

Table 2: List of FNDs and relevant DRATs

Number	Name	Number	Name
FND 1	Asset encumbrance to total assets	FND 18	Customer deposits to total liabilities
FND 2	Encumbrance of central bank eligible assets	FND 19	Proportion of short-term liabilities with encumbered assets
FND 3	Encumbrance of government bonds	FND 20	Proxy of secured funding
FND 4	Encumbrance of collateral	FND 21	Available collateral for encumbrance to total liabilities
FND 5	Over collateralisation	FND 22	Share of deposits in non- domestic markets
FND 6	Contingent encumbrance	FND 23	Share of financial liabilities in non-domestic markets
FND 7	Encumbered assets at central bank	FND 24	Share of deposits of households



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			and non-financial corporations
FND 8	% of total deposits covered by a deposit guarantee scheme to total liabilities	FND 25	Use of subordinated financial liabilities
FND 9	Debt securities to total liabilities	FND 26	Gains and losses of financial liabilities at fair value to their carrying amount
FND 10	Deposits from credit institutions to total liabilities	FND 27	Average interest expense of financial liabilities at amortised cost
FND 11	Loans and advances (excl. trading book) to total assets	FND 28	Covered bonds to total liabilities
FND 12	Debt-to-equity ratio	FND 29	Asset-backed securities to total liabilities
FND 13	Off-balance-sheet items to total assets	FND 30	Convertible compound financial instruments to total liabilities
FND 14	Annual growth rate of total assets	FND 31	Total liabilities in the accounting and regulatory scope of consolidation
FND 15	Annual growth rate of total loans	FND 32	Loan-to-deposit ratio for households and non-financial corporations
FND 16	Annual growth rate of total customer deposits	FND 33	Asset encumbrance ratio
FND 17	Loan-to-deposit ratio	FND 34	Average interest expense of deposits at amortised cost
Number	Name	Number	Name
DRAT 28	Term funding per currency		
	 		

I.2.2. Introduction

Funding risk refers to the risk undertaken by a firm in accessing sufficient funds to meet its obligations when they fall due. Therefore, as in the case of liquidity risk, a bank's poor financial performance may lead to its reduced creditworthiness and, consequently, to its failure to access sufficient funds over a specific horizon that will eventually make it unable to settle its obligations with immediacy.

Besides an institution's creditworthiness and the overall healthiness of the banking sector, the composition and quality of the funds (the so-called funding profile) are also remarkable factors to identify the firm's funding risk profile. For instance, when a bank is able to finance itself at low costs using customer deposits or other forms of long-term unsecured funds, it can be considered as an institution with a low funding risk profile.

An analysis of asset encumbrance is critical to assess the ability of institutions to handle funding stress, and their ability to switch from unsecured to secured funding under such stressed conditions.



The main sources of asset encumbrance (i.e. the balance sheet liabilities for which collateral was provided by institutions) across the sample are repos, covered bonds issued, and over-the-counter derivatives or central bank funding such as TLTROs, ELA and so on. Banks may use their assets as collateral to facilitate either short-term funding (e.g. using repos) or long-term funding (e.g. using ABS or covered bonds to diversify their funding profile).

I.2.3. Description of the relevant risk indicators

In general, FNDs can be divided into two groups: indicators that are related to encumbrance of assets, and those relating to the composition and quality of funding and liabilities.

The former set of indicators, i.e. those based on asset encumbrance, consists of indicators FNDs 1 to 7 and FND 36, while the latter consists of FNDs 8 to 32 and FND 34 on funding and balance sheet structure.

FNDs 9 to 18 were employed to measure funding risk and mainly concern the bank's balance sheet, providing a general overview of its evolution.

More particularly, FND 17 and FND 18 offer an insight into how extensively loans can be financed by deposits, while the share of deposits in total liabilities may also provide a notion of the institution's funding profile.

In parallel, FND 9 and FND 10 take a closer look at the share of the wholesale funding of the firm.

FNDs 11 to 16 observe the balance sheet structure and the evolution of the main balance sheet items.

Given the specialisation of the above-mentioned individual indicators, it becomes apparent that when these indicators are used independently, they do not provide a sufficient level of information about the bank's funding structure and related risk profile. However, when observed jointly, they provide a better reflection of the associated funding risks.

As far as it concerns the risk indicators for asset encumbrance, analysts should consider an asset encumbered if it has been pledged or if it is subject to any form of arrangement to secure, collateralise or credit enhance any transaction from which it cannot be freely withdrawn. This definition covers but is not limited to:

- Secured financing transactions, including repurchase contracts and agreements, securities lending and other forms of secured lending;
- Various collateral agreements for instance, collateral placed for the market value of derivatives transactions;
- Financial guarantees that are collateralised;
- Collateral placed at clearing systems, CCPs and other infrastructure institutions as a condition for access to service;



- Central bank facilities;
- Underlying assets from securitisation structures, where the financial assets have not been derecognised;
- Assets in cover pools used for covered bond issuance.

Therefore, these risk indicators provide a deeper insight into the proportion of encumbered assets, proportionally to the total assets. Hence, knowledge about the volume and composition of the assets and collateral available for encumbrance can provide insights into the degree of leverage an institution has in raising additional secured funding.

Indicators FND 32 and FND 34 offer insights into the concentration of funding, its geographical distribution, and the quality of the secured and unsecured funding of an institution.

Complementary to these risk indicators, there is also a DRAT that fall under the area of funding. DRAT 28 provides a breakdown by currency of term funding, as defined in the domain of the NSFR.

I.2.4. Further methodological issues and potential ways to address them

Despite the rich information available in the context of the ITS on supervisory reporting, additional information may also be deemed necessary in order to properly size a bank's funding profile. Such conclusions can be reached by analysing additional market data on the actual funding costs, the average saving rates, interbank rates for the major currencies, repo rates and capital market credit spreads.

An area that is also not sufficiently covered concerns data regarding capital and the money market instruments of an institution. Furthermore, the CDS spreads of an institution can also provide an indication of how markets evaluate an institution's creditworthiness. Consequently, the higher the likelihood of an institution defaulting, judging by its CDS spreads, the higher the chance this will be reflected in its funding risk profile.

I.3 Asset quality

I.3.1. List of risk indicators and relevant DRATs

Table 3: List of AQTs and relevant DRATs

Number	Name	Number	Name
AQT_1	Non-performing loans and debt securities net of impairments to prudential own funds	AQT_23	Share of large exposures in default



AQT_2	Non-performing loans and debt securities net of impairments to Tier one capital	AQT_24.1	Ratio of forborne assets by country - Debt securities
AQT_3.1	Non-performing loans and debt securities to total gross debt securities and loans and advances (NPE)	AQT_24.2	Ratio of forborne assets by country - Loans and advances
AQT_3.2	Level of non-performing loans and advances	AQT_25	Past due (>90 days) but not impaired loans to total loans and advances
AQT_3.2.1	Level of non-performing loans and advances by counterparty sector - Central banks	AQT_26	Impaired and past due loans to total loans subject to impairment
AQT_3.2.2	Level of non-performing loans and advances by counterparty sector - General governments	AQT_27	Net allowances of securities by type of instrument : loans and advances
AQT_3.2.3	Level of non-performing loans and advances by counterparty sector - Credit institutions	AQT_28	Past due (>90 days) but not impaired loans and debt securities to total loans and debt securities
AQT_3.2.4	Level of non-performing loans and advances by counterparty sector - Other financial corporations	AQT_29.1	Coverage ratio (loans and debt securities
AQT_3.2.5	Level of non-performing loans and advances by counterparty sector - Non-financial corporations	AQT_29.2	Coverage ratio (impaired loans)
AQT_3.3	Non-performing debt securities to total gross debt securities (NPDS)	AQT_29.3	Coverage ratio of impaired debt instruments
AQT_3.3.1	Level of non-performing debt securities by counterparty sector - Central banks	AQT_30	Total gross debt securities and loans subject to impairment
AQT_3.3.2	Level of non-performing debt securities by counterparty sector - General governments	AQT_31	Impaired financial assets to total assets
AQT_3.3.3	Level of non-performing debt securities by counterparty sector - Credit institutions	AQT_32	Impaired debt instruments to total debt instruments
AQT_3.3.4	Level of non-performing debt securities by counterparty sector - Other financial corporations	AQT_33	Accumulated impairments on financial assets to total (gross) assets
AQT_3.3.5	Level of non-performing debt securities by counterparty sector - Non-financial corporations	AQT_34	Impairments on financial assets to total operating income
AQT_4.1	Level of non-performing debt instruments by counterparty sector - Central banks	AQT_35	Annual growth rate of impairments on financial assets
AQT_4.2	Level of non-performing debt instruments by counterparty	AQT_36	Annual growth rate of past due (>90 days) loans and debt



	sector - General governments		instruments and total gross impaired loans and debt instruments
AQT_4.3	Level of non-performing debt instruments by counterparty sector - Credit institutions	AQT_37	Forborne non-performing exposures to total forborne exposures
AQT_4.4	Level of non-performing debt instruments by counterparty sector - Other financial corporations	AQT_38.1	Forborne exposures to non- financial corporations
AQT_4.5	Level of non-performing debt instruments by counterparty sector-Non-financial corporations	AQT_38.2	Forborne exposures to households
AQT_4.6	Level of non-performing debt instruments by counterparty sector - Households	AQT_39	Proportion of performing forborne exposures under probation
AQT_5.1	Non performing debt securities and loans by country (residency counterparty) - Central banks	AQT_40	Coverage ratio for unimpaired loans and debt securities
AQT_5.2	Non performing debt securities and loans by country (residency counterparty) - General governments	AQT_41.1	Coverage ratio of non- performing debt instruments
AQT_5.3	Non performing debt securities and loans by country (residency counterparty) - Credit institutions	AQT_41.1. 1	Coverage ratio of non- performing debt instruments - Central banks
AQT_5.4	Non performing debt securities and loans by country (residency counterparty) - Other financial corporations	AQT_41.1. 2	Coverage ratio of non- performing debt instruments - General governments
AQT_5.5	Non performing debt securities and loans by country (residency counterparty) - Non-financial corporations	AQT_41.1. 3	Coverage ratio of non- performing debt instruments - Credit institutions
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AQT_7.2	Impaired equity instruments by sector - Other financial corporations	AQT_41.2. 2	Coverage ratio of non- performing loans and advances - General governments



AQT_7.3	Impaired equity instruments by sector - Non-financial corporations	AQT_41.2. 3	Coverage ratio of non- performing loans and advances - Credit institutions
AQT_8.1	Impaired debt securities by sector - Central banks	AQT_41.2. 4	Coverage ratio of non- performing loans and advances - Other financial corporations
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AQT_9.4	Impaired loans and advances by sector - Other financial corporations	AQT_42.1	Level of forbearance (gross amount) (FBE)
AQT_9.5	Impaired loans and advances by sector - Non-financial corporations	AQT_42.1. 1	Level of forbearance (gross amount) for debt instruments (FBE)- Central banks
AQT_9.6	Impaired loans and advances by sector - Households	AQT_42.1. 2	Level of forbearance (gross amount) for debt instruments (FBE)- General governments
AQT_10.1	Accumulated impairment and accumulated change in fair value due to credit risk of debt instruments by country - Debt securities	AQT_42.1. 3	Level of forbearance (gross amount) for debt instruments (FBE)- Credit institutions
AQT_10.2	Accumulated impairment and accumulated change in fair value due to credit risk of debt instruments by country - Loans and advances	AQT_42.1. 4	Level of forbearance (gross amount) for debt instruments (FBE)- Other financial corporations
AQT_11	Share of exposures in default	AQT_42.1. 5	Level of forbearance (gross amount) for debt instruments (FBE)- Non-financial corporations
AQT_12	Value adjustments and provisions compared to original exposure	AQT_42.1. 6	Level of forbearance (gross amount) for debt instruments



			- (EDE) Havrachalds
			(FBE)- Households Level of forbearance - Loans and
AQT_13	Risk Weight ratio (credit risk)	AQT_42.2	advances (gross amount) (FBL)
AQT_14	Post-CRM exposure to original exposure	AQT_42.2. 1	Level of forbearance (gross amount) for loans and advances- Central banks
AQT_15	EL amount compared to original exposure	AQT_42.2. 2	Level of forbearance (gross amount) for loans and advances- General governments
AQT_16.1	Share of defaulted exposures by sector and country - Central governments or central banks	AQT_42.2. 3	Level of forbearance (gross amount) for loans and advances- Credit institutions
AQT_16.2	Share of defaulted exposures by sector and country - Institutions	AQT_42.2. 4	Level of forbearance (gross amount) for loans and advances- Other financial corporations
AQT_16.3	Share of defaulted exposures by sector and country - Corporates	AQT_42.2. 5	Level of forbearance (gross amount) for loans and advances- Non-financial corporations
AQT_16.4	Share of defaulted exposures by sector and country - Retail	AQT_42.3	Level of forbearance - Debt securities (gross amount) (FBDS)
AQT_17.1	Share of observed new amounts of defaults for the period (or increase of defaults for the period) by sector and countries - Central banks and central governments	AQT_42.3. 1	Level of forbearance (gross amount) for debt securities- Central banks
AQT_17.2	Share of observed new amounts of defaults for the period (or increase of defaults for the period) by sector and countries - Institutions	AQT_42.3. 2	Level of forbearance (gross amount) for debt securities- General governments
AQT_17.3	Share of observed new amounts of defaults for the period (or increase of defaults for the period) by sector and countries - Corporates	AQT_42.3. 3	Level of forbearance (gross amount) for debt securities- Credit institutions
AQT_17.4	Share of observed new amounts of defaults for the period (or increase of defaults for the period) by sector and countries - Retail	AQT_42.3. 4	Level of forbearance (gross amount) for debt securities- Other financial corporations
AQT_17.5	Share of observed new amounts of defaults for the period (or increase of defaults for the period) by sector and countries - Equity	AQT_42.3. 5	Level of forbearance (gross amount) for debt securities- Non-financial corporations
AQT_17.6	Share of observed new amounts of defaults for the period (or increase of defaults for the	AQT_43	% growth of defaulted exposures during the period



	period) by sector and countries - Other non-credit obligation assets		-
AQT_18	Share of resecuritisations	AQT_44	Variation of allowances
AQT_19	Share of impaired and past due collateralised loans	AQT_45	Variation of write-offs of securities by type of instrument : equity instruments
AQT_20	Quality of Off-Balance Sheet exposures (share of NP OBS exposures)	AQT_46	Net allowances of securities by type of instrument : debt securities
AQT_21	Net allowances for credit losses : debt securities and loans and advances	AQT_47.1	Level of performing forborne loans not under probation (of total loans) (all gross)
AQT_22.1	Share of fair value level for assets - Level 1	AQT_47.2	Level of performing forborne loans under probation (of total loans) (all gross)
AQT_22.2	Share of fair value level for assets - Level 2	AQT_47.3	Level of non-performing forborne loans (of total loans) (all gross)
AQT_22.3	Share of fair value level for assets - Level 3		

Number	Name	Number	Name
DRAT 25	Ranking of countries according to non-performing exposures (EUR million)	DRAT 30	Average PD of non-defaulted IRB exposures by exposure class
DRAT 26	Ranking of countries according to non-performing exposures to total financial assets	DRAT 31	Average PD of IRB exposures by exposure class
DRAT 29	Average LGD per exposure class		

1.3.2. Introduction

Asset quality reflects the quantity of existing and potential credit risks associated with loan and investment portfolios (which typically comprise the majority of a bank's assets) and other assets, as well as off-balance-sheet transactions, which are granted or owned by an institution against various counterparties, such as corporates, retail customers, other credit institutions, governments and others.

Therefore, credit risk is most simply defined as the potential risk that a bank borrower or counterparty will fail to meet its obligations in accordance with the pre-agreed terms. The goal of credit risk management is to maximise a bank's risk-adjusted rate of return by maintaining credit risk exposure within acceptable parameters. Banks need to manage the credit risk inherent in the entire portfolio, as well as the risk in individual credits or transactions.

The effective management of credit risk is a critical component of a comprehensive approach to risk management and essential to the long-term success of any banking organisation.



Credit risk is a major risk in banking, as it is important to understand institutions' current state of play, monitor the trends and thus understand vulnerabilities drivers, and be in a position to react taking supervisory measures.

1.3.3. Description of the relevant risk indicators

Against this background, several AQTs have been identified in the context of the EBA risk indicators.

Some of these ratios focus on the level of loan loss provisioning to cover defaulted, impaired or non-performing assets, while others cover different aspects of the asset quality concept, such as the fair value level according to IFRS and the importance of forbearance or exposures on resecuritised products.

Additionally, some of the indicators refer to more granular asset classes or counterparty sectors, such as corporates, large or foreign exposures towards borrowers in a country or group of countries, in a more detailed manner.

In general, AQTs can broadly be divided into the following categories.

Twelve indicators, AQTs 25 to 36 and AQT 28 to 36, refer to impaired and past due assets, according to instruments (loans, equity instruments, etc.). These ratios give the level of coverage or proportion of these assets to other significant figures, such as total assets and operating income. Additionally, some of these ratios cover annual growth rates on a sliding quarterly basis.

AQT 6 to AQT 9 and AQT 19 directly refer to impaired assets. More particularly, AQT 6 focuses on those impaired assets that have been collateralised, as this category can be considered particularly sensitive since it may reflect the potential impact of cash flows (due to the costs for obtaining and selling the collateral) on whether or not foreclosure is probable. AQT 40 focuses on unimpaired loans' coverage, as these assets are also likely to be allocated impairments on a collective basis.

AQT 22 analyses the structure of fair value assets based on their measurement methodology. The fair value hierarchy is a concept used in the accounting framework to reflect the way assets were evaluated in fair value within the books. In particular, there are three levels that reflect the inputs used to measure fair value, ranging from quoted prices in active markets to unobservable inputs. Level 3 demonstrates those assets that were valuated relying on unobservable price inputs and, therefore, have now become a potential source of loss in case of overestimation. Hence, AQT 22 tries to reflect this kind of particular risk.

Six indicators, AQT 21, AQT 24 and AQTs 37 to 39, refer to the level of forbearance, i.e. the share of forborne exposures. The use of forbearance is interesting when considered from a risk policy point of view, especially over several periods of time – for example, when steep increases occur – in order to assess whether there has been some change in the bank's behaviour regarding this type of asset. This perspective may also reveal the share of successful forbearance at a given point of time, which can be deduced by looking at the amount of forborne exposures that have



been reclassified from the non-performing to the performing category (described as loans under probation) and/or by measuring the proportionality of reclassified forborne loans.

Five other indicators, AQTs 1 to 5, refer to 'non-performing exposures'. The EBA definition of non-performing exposures builds upon the definitions of impairment and default according to IFRS and Regulation (EU) No 575/2013 (CRR). The NPE definition is broader than these notions, with the setting of common identification and discontinuation criteria (90 days past-due or unlikeliness to pay) to serve as a more harmonised asset quality indicator across Europe to compare the banking institutions one to another.

Seven indicators, AQTs 44 to 46, AQT 27, AQT 10, AQT 12, AQT 21, cover value adjustments and write-offs (reducing the accounting value of an asset) by instrument (e.g. loans, equity etc.) and countries or groups of countries. Net value adjustments (flows of credit loss allowances, i.e. closing balance minus opening balance) provide information on the development of allowances for credit losses depending on the type of counterparty.

Finally, 10 indicators, AQTs 11 to 18, AQT 23 and AQT 43 (including their sub indicators, e.g. by counterparty) are built based on COREP templates and provide detailed information on defaulted exposures, both outstanding and recorded during the observed period, regarding the EL compared to original risk exposures and risk-weighted measures. Among these, two indicators (AQT 18, AQT 23) cover the share of defaulted exposures within large exposures and resecuritisations.

Additionally, all country breakdowns are subject to a threshold, and thus reported only by institutions whose foreign exposures are at least 10% of the total. Effectively, that means that all indicators based on them (AQTs 5, 11 to 12, 16 to 17, 20 and 24 and DRATs 25 and 26) can be computed only for institutions with significant foreign exposures.

Finally, four DRAT indicators have been defined for this domain. The first two, DRATs 25 and 26, propose a ranking of countries according to the absolute and relative amounts of non-performing exposures respectively, with data extracted from FINREP template F 20.04. These indicators could provide insights into the geographical areas where EU banks recognise more financial assets as non-performing. DRATs 29 and 31 consist of a matrix (for IRB banks only) for the average PD and LGD by exposure class. Such information could highlight the riskiest portfolios of the reporting institution.

I.3.4. Further methodological issues and potential ways to address them

Some of the above-mentioned indicators could be also presented using matrices – for example, with regard to those dealing with countries or country groups, or categories of assets (equity, loans, etc.), or counterparty sectors (households/retail, corporates, sovereign exposures types).

Moreover, one should bear in mind that EL used in AQT 15 are estimated and thus not effective values. They are very useful tools used for supervisors to assess the solvency of the banking



industry. However, they should be compared with care to effective losses and defaults, as EL are calculated only for IRB exposures, and thus, do not reflect the whole amounts of the exposures.

I.4 Profitability risk

I.4.1. List of risk indicators and relevant DRATs

Table 4: List of PFTs and relevant DRATs

Number	Name	Number	Name
PFT 1	Staff expenses as % of total administrative expenses	PFT 22	Return on regulatory capital requirements
PFT 2	Staff expenses per total operating income	PFT 23	Cost-income ratio
PFT 3	Administrative expenses per total operating income	PFT 24	Return on assets
PFT 4	Tax rate on continuing operations	PFT 25	Net interest income to total operating income
PFT 5	Interest income from households	PFT 26	Net fee and commission income to total operating income
PFT 6	Interest income from credit institutions	PFT 27	Dividend income to total operating income
PFT 7	% of interest income earned domestically	PFT 28	Net realised gains (/losses) on financial assets and liabilities not measured at fair value through profit and loss to total operating income
PFT 8	% of interest expenses spent domestically	PFT 29	Net gains on financial assets and liabilities held for trading to total operating income
PFT 9	% of dividend income earned domestically	PFT 30	Net gains on financial assets and liabilities designated at fair value through profit or loss to total operating income
PFT 10	% of fee and commission income earned domestically	PFT 31	Net other operating income to total operating income
PFT 11	% of total net operating income earned domestically	PFT 32	Net income to total operating income
PFT 12	Structure of fee and commission income net – payment services	PFT 33	Annual growth rate of total operating income
PFT 13	Structure of fee and commission income net – structured finance	PFT 34	Average interest income for households
PFT 14	Structure of fee and commission income net – asset management	PFT 35	Loan-deposit spread for central banks
PFT 15	% of total profit or loss earned/lost in domestic activities	PFT 36	Loan-deposit spread for general governments
PFT 16	% of total profit or loss earned/lost in non-domestic activities	PFT 37	Loan-deposit spread for credit institutions
			



PFT 17	Return on investment analysis)	(RoE	PFT 38	Loan-deposit spread for other financial corporations
PFT 18	Leverage (RoE analysis)		PFT 39	Loan-deposit spread for non- financial corporations
PFT 19	Non-operating earnings analysis)	(RoE	PFT 40	Loan-deposit spread for households
PFT 20	Tax effect (RoE analysis)		PFT 41	Net interest margin
PFT 21	Return on equity		PFT 42	Provisions for pending legal issues and tax litigation as % of own funds

1.4.2. Introduction

A well-functioning banking sector is a key element for economic development and, therefore, long-term economic support by banks can only be ensured if they are profitable.

A bank's profitability can be traced back to cyclical as well as structural aspects. Cyclical sources of profitability refer to, for instance, the level of the interest rates, the gradient of the yield curve, the availability of high-yield assets, the burst or development of asset price bubbles and the economic environment, such as the current phase of the business cycle or the level of competition in the financial sector.

On the other hand, structural reasons that determine a bank's profitability could indicate how well a bank reacts to business developments – such as an increasing banking activity over the internet – and, therefore, if the business model is appropriate and up to date. It can also indicate the structure of the economy as such and whether a bank has an appropriate business model to meet the demands, a bank's cost structure, relics from former management and business decisions. Examples of these points include portfolio decisions with long-term effects, a bank's management and how banks are affected by the regulatory environment.

There are several channels through which the risk of low profitability could materialise. A direct consequence is to encounter problems when seeking refinancing from the markets, i.e. other banks and investors are less willing to invest in the bank or lend it money.

Further consequences of materialisation, and the points most worth noting, are that a bank's equity shrinks or that the bank may not be able to generate new equity. There are several ways in which a bank can respond to low profitability and all of them entail certain risks.

Profitability does not come without risks. In attempt to improve profitability, a bank could cut costs, which could possibly result in insufficient internal control structures or lead to increased legal and reputational risks that could effectively have severe financial consequences. In their attempt to increase profitability, banks may also engage in a search for yield, and thus invest into risky assets that could potentially cause problems if these risks materialise.

Furthermore, the risk of asset price bubbles may also increase when many banks invest in the same asset class. Another structural problem for banks' balance sheets arises when banks try to



raise profitability by increasingly using maturity transformations. In addition, banks may try to change their business model, which is a complex task that requires experienced management to be involved.

I.4.3. Description of the new indicators

Indicators PFT 21 to PFT 33 were initially employed in the context of the KRIs and were intended to measure banks' profitability, which mainly concerns a bank's income and gives a general overview of the development of the overall profitability.

The newly developed indicators, PFTs 1 to 20 and PFTs 34 to 40, take a deeper look at the roots of profitability and, therefore, they can help to analyse the structure of income, i.e. banks' business or cost structure, and thus may help to detect shifts in business models and their potential to increase banks' revenues. They also help to analyse international or peer-to-peer differences in the income structure of banks, as well as to identify relevant outliers.

These new profitability indicators can be broadly split into five groups: the first set focuses on the cost structure, namely staff and administrative expenses and taxes; the second set looks at the geographical structure of income and expenses; the third set concerns the structure of the interest income; and the fourth concerns indicators for the structure of fee and commission income. Last but not least, in a 'follow-the-money' approach, the profitability indicators are put into perspective with regard to the bank's balance sheet information (see also Part II.6 "Follow-the-money" approach').

More particularly, the first set contains PFTs 17 to 20, which are based on statement of profit or loss and may assist an analyst in understanding the main drivers of revenues and to determine the source of the underlying risks. Additionally, indicators PFTs 1 to 4 analyse how much of the administrative expenses can be attributed to staff expenses, and how many euros of staff or administrative expenses are required to earn one euro of total operating income. Thereby, it can be analysed how personnel-intensive or staff-dependent a bank's business model is.

Furthermore, these indicators can provide an overview of the cost structure of the bank. In a peer comparison, e.g. among banks with similar business models, these indicators also allow one to learn about the potential deficits of a bank. The risk indicator looking at the tax rate on continuing operations allows one to study how much of the earnings from continuing operations banks have to pay as taxes. This is, in particular, interesting if compared internationally.

In the second group, income and expenses are analysed separately, according to whether they are earned or spent domestically or non-domestically. PFT 15 and PFT 16 demonstrate the percentage of total profits or losses earned/lost in domestic (PFT 15) versus non-domestic activities (PFT 16).

Similarly, PFTs 7 to 11 provide a more granular view by analysing the main income and expenses according to their geographic origin. In particular, these PFTs demonstrate what percentage of interest income, interest expenses, dividend income, fee and commission income and total net operating income is generated by domestic entities. All such indicators can contribute to our



understanding of how dependent a bank's business model is on domestic and non-domestic income respectively.

The third group of indicators, PFTs 5 to 6 and 34 to 40, provides a more detailed insight into the origin of interest income, namely what share of the interest income is generated by the business with households and credit institutions respectively. It should also be stressed that, normally, the two indicators do not necessarily add up to a total of 100%, as there may be also other sources of interest income that are classified as less important in this analysis and thus are not observed separately (for example, the net interest income on interest-bearing assets).

The fourth group of indicators, PFTs 12 to 14, observes the sources of fee and commission income. Such indicators show the share of fees and commissions earned by the main activities of payment services, structured finance and asset management respectively.

Finally, the 'follow-the-money' approach starts from a widely used risk indicator – the return on equity (RoE) (PFT 21) – and is broken down into an indicator's tree, which serves as the starting point to define the possible ways for the 'follow-the-money' approach. The basic idea is to drill down, splitting up the return on equity into its components:

Return on investment, leverage, non-operating earning, tax effect.

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RoE = \frac{Net\ operating\ Profit}{Assets} \times \frac{Assets}{Equity} \times \frac{Earnings\ before\ Tax}{Net\ operating\ Profit} \times \frac{Net\ Profit}{Earnings\ before\ Tax}
Return\ on\ investment\ |\ 1/Leverage\ |\ Non-operating\ earnings
```

I.4.4. Further methodological issues and potential ways to address them

As illustrated in Part II of the Guide, some of the new indicators may involve numerators and denominators with either positive or negative signs. Occasionally, this may raise concerns about the interpretability of their results. Therefore, those profitability indicators with both negative numerator and denominator should be normally artificially transformed into negative (see also Part II.2 'Negative values in numerators and denominators of ratios'). This kind of adjustment is particularly required for this type of risk indicators.

The 'follow-the-money' approach, as explained in detail in Part II of this Guide, could be further studied by splitting the respective indicators into more granular subcomponents. At this stage, only few of the new risk indicators were defined in this context. To fully pursue the 'follow-the-money' approach, it would be necessary to define additional risk indicators.



I.5 Concentration risk

I.5.1. List of risk indicators and relevant DRATs

Table 5: List of CONs and relevant DRATs

Number	Name	Number	Name
CON 1	Total large exposures	CON 7	Residential mortgage loans to households
CON 2	Exposures over 10% of capital or EUR 300 million	CON 8	CRE loans
CON 3	Large exposures to institutions	CON 9	Interests in SPE
CON 4	Large exposures to unregulated financial entities	CON 10	Interests in asset managers
CON 5	Non-domestic assets	CON 11	Interests in other unconsolidated structured entities
CON 6	Residential mortgage loans		

Number	Name	Number	Name
DRAT 1	Distribution matrix of original exposure by sector and country	DRAT 13	Distribution of loans and advances to non-financial corporations by NACE codes and country
DRAT 2	Distribution matrix of defaulted exposure by sector and country	DRAT 14	Distribution of loans and advances cumulative impairments by NACE codes and country
DRAT 3	Distribution matrix of observed new defaults by sector and country	DRAT 15	Distribution of liquid assets among currencies
DRAT 4	Distribution matrix of provision coverage ratio by sector and country	DRAT 16	Total inflows minus outflows by currencies (A - B)
DRAT 5	Distribution matrix of write-offs by sector and country	DRAT 17	Exposures by sector (all portfolios)
DRAT 6	Distribution matrix of RWA by sector and country of non-defaulted exposures	DRAT 18	Exposures by sector (trading book)
DRAT 7	Distribution matrix of own funds requirements for credit risk (as calculated for capital buffers) by country	DRAT 19	Top 10 counterparties classified as institutions
DRAT 8	Distribution of overall losses from property by country group	DRAT 20	Top 10 counterparties classified as unregulated financial entities
DRAT 9	Distribution of loss rates from property by country	DRAT 21	Top 10 counterparties classified as non-financial corporations



DRAT 10	Distribution of FINREP assets and off-balance-sheet items by country	DRAT 22	Top 10 counterparties classified as institutions by number of large exposures
DRAT 11	Distribution of FINREP default rates by assets and off-balance-sheet items and by country	DRAT 23	Top 10 counterparties classified as unregulated financial entities by number of large exposures
DRAT 12	Distribution of FINREP coverage ratios by assets and off-balance-sheet items and by country	DRAT 24	Top 10 counterparties classified as non-financial corporations by number of large exposures

1.5.2. Introduction

CON refers to the risk of a financial institution suffering heavy losses, which could eventually lead to insolvency, due to the default of a single counterparty or a set of counterparties with a high PD at the same time.

Thus, monitoring excessive concentration is a key aspect, as most of the banking crises, including some of the most recent ones, have been mainly attributed into this fact (although they were amplified by other factors).

Therefore, while concentration on single counterparties is more relevant at a micro level, aggregated data can reveal how a financial system concentrates such risks.

Nevertheless, for a banking system as a whole, the analysis of concentration on correlated counterparties, such as country, sector or collateral type, is of higher importance, as it can be used both to detect concentration risk as such and to examine possible contagion effects through interconnectedness.

1.5.3. Description of the new indicators

Indicators CON 1 to CON 4 concern large exposures. An exposure is classified as 'large' if it represents more than 10% of the Tier 1 capital of the institutions (for more details, see Article 392 of the CRR).⁶

Furthermore, other exposures are reported using the same templates, as they are also considered to be of high importance. These can be grouped into four categories: 1) exposures over EUR 300 million, i.e. for banks reporting FINREP only; 2) according to the Articles 9(2)(g) and 11(2)(g) of the ITS on supervisory reporting, the top 20 exposures when the reporting institution is using the IRB approach (last paragraph of Article 394(1) of the CRR); 3) the top 10 exposures to institutions; and 4) the top 10 exposures to unregulated financial entities (in accordance with Article 394(2) of the CRR).

CON 1 covers total large exposures (original) as a share of total (original) exposures and, therefore, it is intended to be the main indicator, referring to the concentration towards a single counterparty. CONs 2 to 4 respectively cover the first category, the fourth and the fifth as

⁶ Regulation (EU) No 575/2013



described above. The third category has been left aside, as it cannot be computed based on the existing reporting templates, if not by residual, i.e. all reported LE that do not fall in any of the other categories.

While the previous indicators focused on large exposures, CONs 5 to 11 concern all exposures (with the last three focusing only on foreign exposures) and are, therefore, intended to measure the concentration on counterparties, which can be correlated.

CON 5 measures the degree of internationalisation for a bank or a banking system.

CONs 6 to 8 measure the exposures to residential and commercial real estate loans, which are traditionally one of the main sources of potential risks for banks.

CONs 9 to 11 measure the interests in three categories of entities (which are connected to the reporting institution) that may as well be a source of risk, namely: securitisation vehicles, asset managers and other structured entities. For these indicators, the underlying data is available only on a semi-annual frequency.

In the context of the DRAT for concentration risk, matrices demonstrate the distribution of assets and exposures or other dimensions by country, sector (according to COREP and NACE breakdowns), currency or asset class. Such indicators could also be used to identify areas of excessive concentration or, more generally, to visualise the interconnectedness between countries or sectors through a map. For that reason, these indicators have been chosen to be included in this section, even though some of them could have also fallen under the categories of asset quality, profitability or liquidity.

The country tables consist of individual EEA Member States, along with additional 16 countries against which EU banks have the highest exposures. The number 16 has been chosen as the gap between the 16th and the 17th country (respectively, South Africa and Chile) is wider than between other positions. In parallel, exposures corresponding to the 17th country onwards start to be less significant in quantitative terms and their inclusion in the tables may add little value to the overall analysis.

Regarding sectoral breakdown, it is necessary to signal that COREP sectors are different for SA and IRB exposure and, therefore, they need to be grouped in order to facilitate comparability (for the relevant methodological issues, please refer to section I.5.3 below). NACE breakdowns are based on the most aggregated version of the standard (i.e. 19 sectors, identified by a single letter code). Otherwise, any further aggregation may have resulted in less relevant information.

Furthermore, indicators DRATs 1, 7, 10, and 17 provide breakdowns of total exposures (or own funds requirements in the case of DRAT 7) by sector/instrument and/or country (the first two stem from COREP by exposure class, the other two from FINREP by sector and instrument).



DRATs 13 and 18 focus on two subsets of exposures – more particularly, loans to the non-financial sector and trading book. These indicators aim at monitoring, respectively, the so-called 'sectoral risk', and market risk/interconnectedness.

DRATs 2 to 5, DRATs 11 to 12 and DRAT 14 relate to defaults, losses and coverage ratios and, therefore, provide insight into from where problems may arise for a bank or a banking system. These are indicators related to asset quality and their concentration.

DRAT 6 shows the distribution or RWAs of non-defaulted exposures. Hence, it demonstrates the distribution of capital requirements and, compared with DRAT 1, it may be used to figure out how risky each sector or country could be perceived by banks.

The reporting templates on IP losses are the basis for DRATs 8 and 9, which cover only EU countries.

DRATs 15 and 16 refer to the currency concentration, thus focusing only on liquid assets for which data is available. To this junction, it should also be noted that assets denominated in the bank's reporting currency are excluded. This implies that only aggregations of banks with the same reporting currency will be considered significant for more details (see also Part II.5). Moreover, for the aggregates, the reported currencies will not necessarily be the most significant ones, as a currency representing 5% only in one bank would be included, while, theoretically, another representing 4.9% in all other banks would be excluded. The final list of currencies to be displayed in that context can only be defined once sufficient back data is available and the currencies demonstrate their predominance.

Finally, DRAT 19 to DRAT 24 are derived from large exposures templates and they intend to rank the counterparty institutions by reporting institutions. These indicators determine those that are the most recurrent counterparties of EU banks, classified as institutions, unregulated financial entities and non-financial corporations.

I.5.4. Further methodological issues and potential ways to address them

For each large exposure, three different values are available: original exposure, exposure value before application of exemptions and CRM (but after provisions), and exposure value after application of exemptions and CRM. Among them, the most suitable candidate has to be chosen and used for the computation of the relevant risk indicators.

Despite the fact that the second option seems the most suitable, as it is the value that qualifies an exposure to be flagged as 'large', it was decided to use the first option (original exposures. This is due to the fact that original exposures are collected in many templates and, therefore, when it comes to computing concentration ratios, it is easier to find a suitable denominator. Indicators on the other two values could be added, provided that the denominator is consistent.

Additionally, all country breakdowns are subject to a threshold and thus are reported only by institutions whose foreign exposures are at least 10% of the total. Effectively, that means that all



indicators based on them (CON 5 and DRATs 1 to 7 and 10 to 14) can be computed only for institutions with significant foreign exposures.

Alternatively, assuming that all the non-reporting institutions are domestic totals, total exposures for COREP and total assets and off-balance-sheet items for FINREP could also be used. However, this approach may underestimate foreign exposures. A similar approach could also be used to add data on own country when they are not reported for all indicators based on template FINREP 20.00, such as DRATs 9 to 13.

Finally, exposure classes in COREP are different in the SA and in the IRB approach. Therefore, to make them comparable, a mapping is proposed, as illustrated in Annex II of the Guide. This implies some degree of approximation, as definitions are not exactly the same, but the only alternative would be to have separate tables for SA and IRB exposures and such tables, each providing a partial picture, would be of limited use.

I.6 Solvency risk

1.6.1. List of risk indicators and relevant DRATs

Table 6: List of SVCs and relevant DRATs

Number	Name	Number	Name
SVC 1	Tier 1 capital ratio	SVC 16	IRB shortfall to total Tier 1 capital
SVC 2	Total capital ratio	SVC 17	Net DTA that rely on future profitability to total Tier 1 capital
SVC 3	CET 1 capital ratio	SVC 18	Adjustments to CET 1 due to prudential filters to total Tier 1 capital
SVC 4	Credit risk exposure amounts of total risk exposure amounts	SVC 19	Deductible goodwill and other intangible assets to total Tier 1 capital
SVC 5	SA risk-weighted exposure amounts of total credit risk exposure amounts	SVC 20	Defined benefit plan assets to total Tier 1 capital
SVC 6	Securitisation risk exposure amounts of total credit risk exposure amounts	SVC 21	Capital and share premium to total equity
SVC 7	IRB approach risk exposure amounts of total credit risk exposure amounts	SVC 22	Accumulated OCI to total equity
SVC 8	Market risk exposure of total risk exposure amounts	SVC 23	Retained earnings and reserves to total equity
SVC 9	Operational risk exposure of total risk exposure amounts	SVC 24	Treasury shares to total equity



SVC 10	Settlement risk exposure of total risk exposure amounts	SVC 25	Minority interests to total equity
SVC 11	Other risk exposure of total risk exposure amounts	SVC 26	Equity to total liabilities and equity
SVC 12	Leverage ratio (fully phased-in definition of Tier 1)	SVC 27	Tier 1 capital to 'total assets – intangible assets'
SVC 13	Leverage ratio (transitional definition of Tier 1)	SVC 28	Annual growth rate of RWAs
SVC 14	Regulatory own funds to accounting own funds	SVC 29	CET 1 (fully phased-in definition)
SVC 15	Transitional adjustments due to grandfathered CET 1 Instruments to total Tier 1 capital	SVC 30	Total capital ratio (fully phased- in definition)

I.6.2. Introduction

Solvency risk can be understood as the risk of an institution lacking the ability to absorb losses or decrease in earnings. Hence, insolvent firms have persistently and disproportionately large liabilities compared to RWAs. As a result, banks are unable to borrow further funds so as to face unexpected loss events. Specific regulatory capital requirements and compulsory values for SVCs are the most traditional measures that supervisors have used to avert such bank failures.

I.6.3. Description of the relevant risk indicators

SVCs, such as SVCs 1 to 11 and SVCs 26 to 28 respectively, are employed for measuring solvency risk and are mainly concerned with the composition of an institution's risk profile, the compulsory capital requirements indicators, compliance level and the divergence of regulatory capital from accounting figures. They are all structured in such a way that would facilitate monitoring and assessment of regulatory capital-requirements compliance from period to period.

The rest of the SVCs can be broadly structured into four categories:

- SVCs 12 to 13 and SVCs 29 to 30 observe the mandatorily calculated regulatory leverage ratios related to own funds, as prescribed by Regulation (EU) No 575/2013;
- SVC 23 compares the published financial statements' own funds against supervisory capital. A large divergence between these ratio components signals low future lossabsorbing ability and an adversely high impact of prudential filters (see Article 32-35, Regulation (EU) No 575/2013);
- The ratios of SVCs 21 to 26 elaborate the composition of the core components of the accounting equity;
- The ratios of SVCs 16 to 20 decompose transitional or phase-in adjustments to regulatory own funds allowed by the competent national authorities, and are intended to measure solvency risk for the institution in the case that national discretions are lifted.



I.6.4. Further methodological issues and potential ways to address them

Ratios which decompose transitional or phase-in adjustments to regulatory own funds (SVCs 12, 13, and 15 to 20) have Tier 1 as a denominator, as a minimum Tier 1 ratio is prescribed by Article 92(1)(b) of Regulation (EU) No 575/2013 and it contains the largest amount of adjustments between the two options for a denominator (CET 1 or Tier 1). In addition, CET 1 and total capital ratio are computed with fully phased-in definitions.

I.7 Operational risk

1.7.1. List of risk indicators and relevant DRATs

Table 7: List of OPRs and relevant DRATs

Number	Name	Number	Name
OPR_1	Total Risk Exposure for Op Risk (%	OPR_6	Internal Fraud Loss as
	of Total Risk Exposure)		percentage of total OpR Loss
OPR_2	OpR BIA Risk Exposure (% of Total	OPR_7	External Fraud Loss as
	Risk Exposure OpR)		percentage of Total OpR Loss
OPR_3	OpR STA/ASA Risk Exposure (% of	OPR_8	Business Disruption and System
	Total Risk Exposure OpR)		Failures Loss as percentage of
			Total OpR Loss
OPR_4	OpR AMA Risk Exposure (% of Total	OPR_9	Total Risk Exposure for OpRisk
	Risk Exposure OpR)		compared to Total Risk
			Exposure for Credit Risk
OPR_5	Total OpR Loss as Percentage of	OPR_10	Total Risk Exposure for Trading
	Own Funds Requirements for OpR		Risk compared to Total Risk
			Exposure for OpR

I.7.2. Introduction

OpR can be described as the risk of loss resulting from inadequate or failed internal processes, systems and people intervention, or from external events.

A representative selection of different OpR types included in this context is:

- People: may include fraud, breaches of employment law, unauthorised activity, key person risk, inadequate training or supervision;
- Processes: failures in payment or settlement, deficient documentation, valuation or pricing errors, project management failures and internal or external reporting problems;
- Systems: typically, this would include system failures, errors in system development and implementation, and inadequate IT resources;



• External events: these would include crime, outsourcing risks, natural disasters, regulatory and political risks, competition and so on.

To that end, OpR usually reflects losses that are identified in a number of event types included in the new reporting framework, as follows:

- 1. Internal fraud: this category would include misappropriation of assets, tax evasion, and bribery;
- 2. External fraud: this would cover, for example, theft of information, hacking damage, third-party theft and forgery;
- 3. Employment practices and workplace safety: this would include, for example, discrimination, employee compensation, and worker health and safety;
- 4. Clients, products and business practices: this category would include market manipulation, antitrust and account churning;
- 5. Damage to physical assets: this would occur due to natural disasters, terrorism, vandalism, and so on;
- 6. Business disruption and system failures: software or hardware failures and disruption of services;
- 7. Execution, delivery and process management: data entry errors, accounting errors and failed reporting requirements.

Even though legal risk is included as the risk of changing legislation and arbitrary court decisions, it excluded strategic and reputational risks.

OpR, by its nature, is unavoidable and it is neither willingly incurred nor is revenue driven. Moreover, it is not diversifiable and thus it cannot be fully eliminated. However, it can be transferred (e.g. by insurance).

OpR is manageable to some extent by introducing proper controls that would keep relevant losses within the risk appetite levels defined by the board of a bank. Thus, OpR is ultimately all about the failure of controls.

I.7.3. Description of the relevant risk indicators

OpR requires a specific type of management, as well as data collection processes, to cover both the high frequency and low cost events but also the low frequency and high impact events throughout the institution.

Once the underlying data is collected, a fundamental part of any OpR framework is the introduction of risk indicators that would provide an indication of the level of OpR carried by the reporting institution.



In the context of the ITS on supervisory reporting, OpR data is available in the following COREP templates:

- C 02.00: Capital adequacy risk exposure amounts
- C 06.00: Group solvency
- C 16.00.a: OpR excluding AMA
- C 16.00.b: OpR AMA
- C 17.00.a: OpRs gross losses by business lines and event types in the last year
- C 17.00.b: OpRs thresholds applied in data collections

The information available in these templates for OpR determines the set of risk indicators that can be calculated. Thus, there are two main types of risk indicators:

a) Risk indicators related to percentages of risk exposure

OPRs 1 to 4 and 9 and 10 fall in this group and they intend to measure the relative importance of OpR exposures and subtypes compared to other risk exposures (either the total, from other risk categories, or within the OpR category).

In general, low values are expected for these indicators compared to other risk classes, as OpR should not be one of the main risk categories in the institution's business model.

However, trends over time and spikes such as low frequency or high impact events, along with peer group analysis, could provide an indication of the overall quality of controls the institution has in place to manage this type of risk.

Some of these indicators provide information on the size of the risk exposure for different OpR measurement approaches, such as OPRs 2, 3 and 4.

b) Risk indicators related to percentages of loss amounts by event type

The remaining risk indicators would fall within this group and they would provide insight into the loss size across different event types as well as overall. Higher proportions of an event type may indicate areas where controls need to improve or where remedial actions need to be put in place.

These indicators attempt to provide an indication of the high or low impact of the OpR compared to the number of events that have occurred in the institution for a given period of time. Special attention should also be paid to those cases where a few events have a high impact in the institution, as these could cause a destabilising effect and are more difficult to control and manage.

Despite the increased number of risk indicators that can be computed across each event and business line combination, this study concentrates on the main types that can give a general flavour of what the level of OpR is in a particular institution.



I.7.4. Further methodological issues and potential ways to address them

A few methodological issues need to be considered, which mainly affect the availability of data for the calculation of the risk indicators.

- 1. Regarding the relevant indicator for years -3, -2 and -1, this is generally the net interest income plus the net non-interest income. The methodological issue is due to the accounting standard base on which this will be calculated (GAAP vs IFRS). Therefore, the use of different standards may affect the comparability of the final computed ratios.
- 2. Template C 06.00 (group solvency) is filled in by entities providing data on a consolidated basis and, therefore, this may impact OPR 5 and OPR 6;
- 3. Reporting obligations for templates C 17.00.a and C 17.00.b depend on the methodology the institution uses.
 - BIA:
 Templates are not required when an entity reports OpR under the basic indicator approach.
 - TSA/ASA:
 Institutions under these approaches are expected to report only rows 910, 920, 930, 940 and column 080 of template C 17.00.a, which are the total of business lines and total of event lines, if the total individual assets (FINREP) <1% total individual assets in the country. If it is higher than 1%, then they would report the full template.</p>

Should the individual assets be below the threshold, there would be no data available to compute OPRs 6 to 8.

Templates used for the computation of OpR indicators have different frequencies. For example, templates C 17.00.a and C 17.00.b are semi-annual, while the rest are quarterly, meaning that there will be two quarters where there will be no data available to compute risk indicators feeding from these templates.

I.8 Market risk

1.8.1. List of risk indicators and relevant DRATs

Table 8: List of MKRs and relevant DRATs

Number	Name	Number	Name
MKR 1	OTC trading derivatives to total trading derivatives	MKR 8	Share of risk exposure amounts of foreign exchange to risk exposure amounts



MKR 2	Commodities trading derivatives to total assets	MKR 9	Share of risk exposure amounts of commodities to risk exposure amounts
MKR 3	Commodities derivatives to total assets	MKR 10	Stress indicator
MKR 4	Total long positions in non- reporting currencies to total long positions	MKR 11	Total unsettled transactions to risk-weighted exposure amounts
MKR 5	Total short positions in non- reporting currencies to total short positions	MKR 12	Total unsettled transactions for more than 46 days to total unsettled transactions
MKR 6	Share of risk exposure amounts of traded debt instruments to risk exposure amounts	MKR 13	Proportion of derivatives and SFT to total risk-weighted exposure amounts
MKR 7	Share of risk exposure amounts of equity to risk exposure amounts	MKR 14	Total long and short positions on commodities to total exposures

I.8.2. Introduction

Market risk can be defined as the risk of losses in on-balance-sheet – and, in rare cases, on off-balance-sheet – positions arising from adverse movements in market prices. From a prudential point of view, market risk stems from all the positions included in banks' trading book, as well as from commodity and foreign exchange risk positions in the banking book.

Furthermore, positions in the AFS portfolio and financial assets and liabilities designated at fair value may also bear some degree of market risk. Traditionally, trading book portfolios consist of liquid positions that are easy to trade or hedge.

However, recent developments in the banks' portfolios have led to an increase in illiquid positions not suited to the original market capital framework. Therefore, as market risk has a wider impact than only on liquid trading book positions, the need to have a more comprehensive view has increased.

I.8.3. Description of the relevant risk indicators

Overall, MKRs provide deeper insights into the role of various market risk portfolios and exposure types.

More particularly, these indicators can be structured into the following categories:

• MKR 6 to MKR 9, MKR 11, and MKR 13, which describe 'risk-weight exposure amount' participation by instrument type. High values on these indicators usually point to the instrument types that aggravate capital-adequacy compliance;



- MKR 4, MKR 5 and MKR 14, which decompose the long or short positions of the institution. Such analysis is especially valuable in cases where market conditions render the liquidation of buyers' positions more difficult than sellers' positions or vice versa;
- MKR 13, which explicate the marketability of trading book positions at the time of reporting;
- MKR 1 to 3, which demonstrate the trading activity of commodities or derivatives as reflected in the trading book or the balance sheet when carried out in a given period;
- MKR 10, which is specially targeted for institutions using internal models that measure how current value-at-risk compares to the stressed value-at-risk. MKR 8 measures FX-risk participation within the total market risk own funds requirements faced by an institution using the SA.

I.8.4. Further methodological issues and potential ways to address them

The application of additional market risk ratios, especially with regard to internal models, is vital to avert sudden and possible failures that could eventually cause losses. Therefore, geographical or currency analysis of certain instrument types can uncover major potential risks for the reporting institution. At the same time, the set of legally binding reporting templates is, by nature, limited and cannot always expose specific inefficiencies in the risk handling that concerns the trading portfolio.

On a more practical basis, after examining the list of risk indicators, supervisors should also try to determine any hidden market risk within the banking book and especially in relation to the movements of balances within the AFS portfolio, prudent valuation adjustments or credit value adjustments (CVA).

The 'arbitrage' of capital requirements, which refers to the exchange of market risk capital requirements for lower credit risk capital requirements, can only be avoided after both the banking book and the trading book have been evaluated simultaneously and over different reporting time points.

1.9 SME risk indicators

I.9.1. List of risk indicators and DRATs

Table 9: List of SME risk indicators and DRATs

Number	Name	Number	Name
SME 1	Share of SME exposures in total	SME 9	PD for SME exposures subject to
	exposures		SME supporting factor



SME 2	Share of SME exposures in exposures to the real economy (corporates, retail and secured by IP)	SME 10	LGD for SME exposures
SME 3	Share of SME exposures subject to	SME 11	LGD for SME exposures subject
	SME supporting factor in total exposures		to SME supporting factor
SME 4	% change (year-on-year) of SME exposures during the period	SME 12	Share of SME exposures in default in total SME exposures
SME 5	% (year-on-year) growth of SME	SME 13	% change (year-on-year) of
	exposures subject to SME		defaulted SME exposures during
	supporting factor during the period		the period
SME 6	Risk weighted ratio for SME	SME 14	Post-CRM SME exposure to
	exposures for SA		original SME exposure
SME 7	Risk weight ratio for SME	SME 15	Post-CRM SME exposure subject
	exposures subject to SME		to SME supporting factor to
	supporting factor		original exposure
SME 8	PD for SME exposures	SME 16	Increase in CET 1 capital ratio
			with the application of the SME
			supporting factor

1.9.2. Introduction

In accordance with Article 8(1)(f) of the Regulation (EU) No 1093/2010 on establishing a European Supervisory Authority, the EBA shall 'monitor and assess market developments in the area of its competence, including, where appropriate, trends in credit; in particular, to households and SMEs'. Therefore, the EBA should develop indicators to monitor the SME lending trends in the EU on an ongoing basis.

1.9.3. Description of the relevant risk indicators

The purpose of SME monitoring is to keep track of lending trends to SMEs and their riskiness in the context of the banking sector.

As such, the following groups of indicators are proposed:

- SMEs 1 to 5 refer to SME lending indicators, which provide information on the lending trends to SMEs and their importance in terms of SME exposures in the overall banking sector;
- SMEs 6 to 13 on SME riskiness indicators provide information about the asset quality and the riskiness of SME related assets;
- SME 14 and SME 15 concern dependency on credit protection and provide information on the extent to which SME exposures are covered by credit protection;
- SME 16 provides an overview of the capital saving of banks due to the application of the SME supporting factor.



More particularly, SME 1 covers the share of SME exposures in total exposures and thus gives broader information on the weight of SME exposures in total bank exposures. SME lending is based on the non-harmonised SME definitions used by each bank.

SME 2 reflects the share of SME exposures in exposures to the real economy (corporates, retail, and secured by IP) and allows the assessment of the relative importance of SME lending as compared to other lending to the private sector. Exposures in default are included in the SA approach, but excluded in IRB.

SME 3 measures the share of SME exposures subject to the SME supporting factor in total exposures. It represents the weight of SME exposures subject to SME supporting factor in total bank exposures. SME lending is based on harmonised SME definitions subject to the supporting factor as defined by Article 501 (CRR). At the bank level, comparison of indicators SME 1 and SME 3 would show how the two SME definitions relate to each other, and at a country level, it will show the impact of these differences.

SME 4 monitors the annual growth of SME exposures during the period. This figure does not represent new business, merely growth in the exposure amount. This indicator offers information on the development (increases or decreases) in the volume of SME exposures, independent from their level.

SME 5 refers to the annual growth of SME exposures subject to the SME supporting factor during the period. The indicator offers information on the development (increase or decrease) of the volume of SME exposures subject to the SME supporting factor, independent from their level.

SME 6 displays the risk weight ratio for SME exposures. It gives information on the average level of credit risk carried by SME assets, keeping in mind that the SME supporting factor has also been applied to some of these assets. This indicator takes into account credit risk mitigation techniques with substitution effects, which means that some SME exposures may be reported as another exposure class for the purpose of risk weighting.

SME 7 reflects the risk weight ratio for SME exposures subject to the SME supporting factor. It gives information on the average level of credit risk carried by SMEs subject to supporting factor assets.

SME 8 monitors the PD for SME exposures. It offers information on the PD associated with SME exposures in the case of IRB banks. It should be noted that part of the information on expected and unexpected loss is captured by LGD.

SME 9 displays the PD for SME exposures subject to the SME supporting factor. This gives information on the PD associated with SME exposures subject to the SME supporting factor in the case of IRB banks. It should be noted that part of the information on expected and unexpected loss is captured by LGD.

SME 10 gives information on the LGD associated with SME exposures.



SME 11 displays LGD for SME exposures subject to the SME supporting factor, which gives information on the LGD associated with SME exposures in the case of IRB banks.

SME 12 monitors the share of SME exposures in default in total SME exposures. It gives information on the relative importance of defaulted SME exposures among SME exposures, overall and by country. This indicator may be compared with the same value for other classes or across banks, as calculated in indicator AQT 11. It can also be computed for SME corporate, SME retail and SME secured by real estate.

SME 13 monitors the annual growth of defaulted SME exposures during the period. It gives information on the development (increases or decreases) of defaulted SME exposures, independent from their level.

SME 14 refers to the SME dependency on credit protection. It can be compared to the same values of all exposures as calculated in AQT 14. Only totals can be used due to the flow of amounts across exposure classes for reporting purposes, as based on CRM. This figure captures only credit protection that leads to the reduction in exposure value. CRM reduce the credit risk of an exposure or exposures via the substitution of exposures. It covers unfunded credit protection (guarantees, derivatives) and funded credit protection (e.g. financial collateral).

SME 15 shows post-CRM SME exposure subject to the SME supporting factor to original exposure. It gives information on the dependency of SME exposures (subject to the SME supporting factor) on credit protection. It can be compared to the same values of all exposures as calculated in AQT 14. Only totals can be used due to the flow of amounts across exposure classes for reporting purposes, as based on CRM. This figure captures only credit protection that leads to the reduction in exposure value.

SME 16 refers to the increase in the common equity Tier 1 capital associated with the application of the SME supporting factor, and measures the capital relief dictated by the SME supporting factor.

I.9.4. Further methodological issues and potential ways to address them

The CRR uses the term SMEs in two contexts. According to the first one, in order to be eligible for the retail exposure class, one of the conditions is that an exposure has to be an exposure to an SME (or one or more natural persons) in both the SA and the IRB approach, in accordance with Article 123 and Article 147 (CRR). The definition of SMEs is not specified for this purpose. However, the relevant reporting instructions⁷ state that for the identification of SMEs for the purposes of the articles of the CRR (other than Article 501), institutions may apply their own definition of SMEs using the Commission Recommendation 2003/361/CE of 6 May 2003 only as guidance.

In the second context, CRD IV/CRR has introduced a deduction in the capital requirements for exposures to SME exposures through the application of an SME supporting factor equal to 0.7619.

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⁷ The <u>EBA Single Rulebook Q&A 2013_27</u>



To be subject to the SME supporting factor, SMEs are identified using the Commission Recommendation 2003/361/EC of 6 May 2003, applying only the turnover criterion (turnover should not exceed EUR 50 million). In addition, the exposures should be included in 'retail', 'corporate' or 'secured by mortgages on IP exposure classes and the amount owed should not exceed EUR 1.5 million, in accordance with Article 501 of the CRR.



Part II. Other methodological issues for the compilation of risk indicators

The second part of this Guide is devoted to a few relevant methodological issues that could affect the indicators' behaviour or be taken into consideration when these are used for analytical purposes.

II.1 Scope of the data

When analysing risk indicators, it is important to be aware of three facts that might not be directly observed, but can severely impact their values: (i) the valuation methods according to which the information is collected, (ii) the changes in the reporting sample when the indicator refers to an aggregation of reporting institutions, and (iii) the level of consolidation.

Despite the fact that, at a first glance, these issues seem to be totally unrelated, they all have an important feature in common: they are usually hidden behind the data and often not adequately explained.

II.1.1. Valuation methods

On supervisory reporting for financial institutions, reported data can be calculated according to different methods, which in turn could have an effect on the reported figures themselves. For example, a loan granted by a credit institution to a customer can be reported under the ITS on supervisory reporting, at a nominal value, cost or fair value and, etc. and then with or without allowances, provisions and credit risk adjustments, as risk exposure amounts or as an exposure value, and so on (see Table 10). Even with such a stylised approach and without entering into too much detail, it becomes apparent that there are seven different methods of measuring the same loan.

When the valuation method used for the collection of a given data point is not adequately expressed, there is a risk that the information could be misinterpreted by users, as they will not be able to understand how the reported amount is calculated and what this implies in terms of substance. Further to the above-mentioned loan example, even within the domain of accounting information, it is not the same to report a loan with or without allowances and provisions.

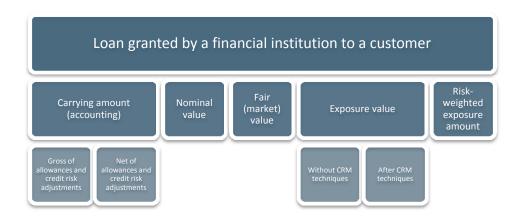
Moreover, in order to ensure an adequate level of quality, it is also required that components of an indicator include only granular data points using consistent valuation⁸ methods. The use of more than one valuation method may significantly hamper the relevant indicator's ability to provide meaningful information. In other words, mixing cost-based and fair-value-based amounts

⁸ The same is valid for accounting frameworks in the specific case of financial information, as the aggregation of information prepared under different accounting frameworks generates more noise than added value.



in the context of the same building component for an indicator, e.g. numerator or denominator, may severely distort the content of this particular data point.

Table 10: Different methods of measuring the same loan



The indicators presented in this Guide will not be affected by limitations laid down in the previous paragraphs, as they always stem from a distinctive EU-wide harmonised reporting framework (FINREP and COREP templates), where valuation methods are clearly defined and used in a distinguished manner. This is certainly one of the benefits the implementation of the EBA ITS on supervisory reporting brings to the field of supervisory reporting.

In any case, such differences in valuation methods shall be borne in mind when comparing indicators stemming from different reporting frameworks – for example, carrying amounts in FINREP against exposure values in COREP, where underlying valuations are usually different.

II.1.2. Composition of the sample

In those cases where an indicator refers to an aggregation of several reporters and, more specifically, where the analysis is focused on the evolution of the series over time, it is important to have a track record regarding the composition of a sample that includes each observation on it. This will ensure that variations throughout different periods accurately reflect the evolution of the indicators and that they are not contaminated by changes such as institutions' mergers or acquisitions in the underlying reporting sample.

Often changes occur in the sample of the reporting institutions, implying that new institutions are added or that others have been dropped from the sample. The various merging and restructuring processes witnessed in the EU banking system over the last few years are representative examples of this phenomenon. The ideal reaction to such an incident would be to adjust all the values of the time series of the indicators to the new sample, each time an addition or a removal may occur. Nonetheless, this option entails continuous and arduous work in adjusting the time series, which may ultimately end up hampering the overall quality of the underlying data. Even more importantly, when the time series comprises a significant number of observations, the task becomes certainly burdensome. An intermediate solution, which is currently applied in some domains, consists of asking two values for each observation: one from the current period and one



from the previous. In this case, the volume of the information collected doubles, but, on the other hand, it is ensured that period-to-period variations reflect the true evolution of this indicator.

Finally, a more pragmatic approach to mitigate this issue is to define strict and transparent criteria for the entry and exit of the reporting sample, so that every change in it is adequately documented and shared with potential users of the information. In this case, the quality of the information is not of the maximum possible level, but the record of additions and removals in the sample serves as a warning tool when looking at the time evolution of a given indicator.

The latter is the solution implemented by the EBA for the reporting of information from large EU banks, as established by Decision EBA/DC/130. Article 3 of this Decision describes the entry and exit criteria for the sample, which have the clear objective of providing as much stability as possible to the sample. This is achieved by requiring an institution to leave out the sample that has not fulfilled the criteria set out in Article 3 over 3 consecutive years, in order to avoid cases where an institution close to the entry thresholds continuously enters and exits the sample. Furthermore, the composition and evolution of the sample of reporting banks is published on the EBA website.

II.1.3. Level of consolidation and reporting requirements

In most cases, the ITS on supervisory reporting requires reporting both on an individual entity level and on a consolidated level. In general, there are different levels of consolidation to be applied when it comes to the submission of consolidated information. If not known by the analyst and especially when aggregating reporting institutions, these levels of consolidation may hinder the quality and accuracy of the analysis. The following paragraphs briefly describe these issues.

First, the scope of consolidation in prudential regulation (CRD IV/CRR) is not the same as in accounting (financial reporting). In broad terms, while the latter includes all entities, regardless of their activities, under the control of the parent entity, the provisions in CRD IV/CRR exclude three groups of entities from the scope of consolidation: (i) insurance corporations and other financial institutions; (ii) non-financial corporations; and (iii) entities not material in size for the group as a whole. While these three groups of institutions are not expected to be core activities of a reporting institution, they give rise to differences between the values reported in the accounting and in the supervisory domain. Therefore, ITS on supervisory reporting requires use of the prudential scope of consolidation for financial information as well. However, FINREP templates F 17.01, F 17.02 and F 17.03 provide an overview of the size of these differences, as their amounts according to the accounting scope of consolidation are reported. To that end, these differences are not expected to be significant but, in some concrete cases, it could make a difference.

Furthermore, the current structure of the EU banking system is one where there are a number of large cross-border banks with activities in many EU countries. In each country, these activities are usually organised with a parent and different subsidiaries, so there is a consolidated group in that country. Under the provisions of the ITS on supervisory reporting, with the notable exception of

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Decision EBA/DC/2015/130

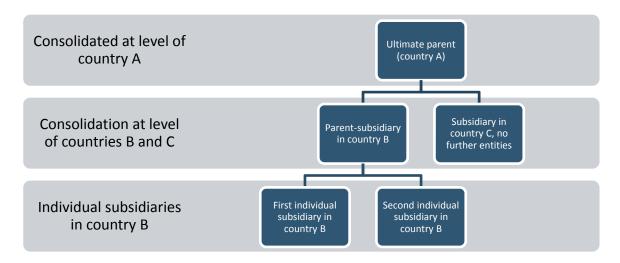
List of reporting institutions to EBA



liquidity reporting,¹¹ not only the ultimate parent in the EU should submit consolidated information but also the intermediate parent the institution may have in any other EU country.

Therefore, when aggregating this information across countries, it may lead to double counting, as the same group (activities of the consolidated group in a given country) are reported twice: (i) within the ultimate consolidated group, and (ii) within the consolidated group at country level. The stylised example in Table 11 below aims at illustrating this point.

Table 11: Consolidation levels



From the above example, the individual subsidiaries in country B are included twice in the consolidated amounts, as they are part of the consolidated group reported in country B and also of the ultimate consolidated group in parent A.

When data for countries A and B are aggregated for the EU, the EBA removes the double counting of the individual subsidiaries. In reality, the structure of most EU banks is far more complex than the one shown in Table 2, as there are more layers for countries and, in some cases, more than one parent institution for a given country. Nonetheless, the example outlined above should raise awareness among users of supervisory data and the limitations this could bring to their analysis.

II.1.4. Data quality assurance procedures

There is no doubt that constructing effective risk indicators requires a significant amount of good quality and reliable data.

Therefore, conducting rigorous consistency and quality checks for all the building components of a risk indicator is of paramount importance. A failure to identify potential problems during the data collection phase may result in transmitting these errors to the individual risk indicators and thus hamper analysis, confusing or misleading potential users.

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¹¹ According to the ITS on supervisory reporting, liquidity information shall only be submitted at the individual level and at the level of the ultimate parent institution in the EU.



To that end, the EBA, in cooperation with the other competent authorities, has established a well-defined data quality framework in order to ensure that the reported data is of adequate quality in the context of the EBA's ITS on supervisory reporting and when issues are spotted, there is a clear follow-up process.

In brief, the ITS data quality assurance framework relies on a two-step process. In the first place, ITS data submissions have to conform to a set of validation rules. Usually, these are linear checks that ensure the consistency of the reported data. For example, a typical validation rule will check whether reported subtotals add up to the figure reported as the total for a particular economic concept. The failure to meet validation will either block the relevant data submission or trigger a warning message for the reporter. Such validation rules are embedded in the XBRL taxonomies and are not mandatory for institutions reporting to national competent authorities (NCAs); however, they are mandatory for secondary reporting, i.e. competent authorities (i.e. the ECB and NCAs not under the SSM) when reporting to the EBA.

In the second place, the EBA – together with the competent authorities – is in charge of conducting completeness checks to ensure that the expected number of items has been submitted in a timely and complete manner, and other quality and plausibility checks to ensure that the reported items do not contain any outliers or implausible values. In the event that a discrepancy is identified, reports will be contacted and requested to review the values or justify them.

II.2 Negative values in numerators and denominators of ratios

Numerators and denominators of certain ratios are constructed in such a way that they can show both positive and negative values. This can typically happen for ratios that include net income items. Therefore, the possible combinations in a ratio where positive or negative signs could get involved are illustrated as follows.

Table 12: Possible sign combinations in a ratio

Numerator	Denominator	Ratio
Positive	Positive	Positive
Positive	Negative	Negative
Negative	Positive	Negative
Negative	Negative	Positive

While the first three combinations do not pose any methodological issues, the last combination, i.e. both a negative numerator and denominator, will produce a positive indicator that could be potentially quite misleading (see Box 2 for a stylised, illustrative example).



Indeed, if no action is taken to tackle this issue, in those cases where the reporting institution is, for example, precisely performing worse (with both variables in the indicator taking negative values), the calculated value of the ratio would place it together with 'normal performers', i.e. those with positive values.

At this juncture, three alternative actions could be considered:

- Dropping out the reporting institutions for which both numerators and denominators are
 negative from computing their ratios. While this alternative would ensure that positive
 values of KRIs actually reflect positive performance of the underlying reporting
 institutions, this would hamper the analysis, as the sample would not contain all the
 reporting institutions, excluding, precisely, those probably in a weaker position and
 therefore deserving closer attention by microprudential and macroprudential supervisors.
 If these ratios are further aggregated by country, the effects of this choice would be
 amplified. In other words, following this alternative would provide a partial and probably
 overly optimistic view;
- Using absolute values for the computation of the ratio. This option would remove the
 impact that the signs of the numerator and denominator have on the signed value taken
 by the computed ratio. However, this is actually its main drawback, as the distinction
 between positive and negative values of the indicator is of the utmost relevance. The
 adoption of this alternative would imply a relevant loss in the analytical value of the ratio
 itself, since gains and losses would be treated equally;
- Artificially transforming the value of the ratios where this happens into negative. This
 solution would group those entities with a negative numerator and denominator together
 with those that only have one of them flagged as negative. The advantages of this
 approach are that the sample would remain the same and the users of the data would be
 assured that positive values certainly reflect positive performances. The only concern with
 the proposal is that it obliges one to adjust ex-post the values reported, a task which
 requires resources and manual intervention and may lead to man-made errors.

Summarising, the third option seems to be the most appropriate one. The first option, which is followed by the EBA, can also be pursued by allocating a -100% to the ratio or by setting the value of the ratio to be the minimum of the sample considered. These two solutions, though, imply that the amended data would not show any direct relationship with what the relevant institution has reported. ¹² so they are less preferable in that sense.

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¹² The allocation of the -100% or the minimum amount in the sample could seem arbitrary and may impair the analytical power of the indicator. In these cases, even small and minor negative amounts would give rise to classifying the reporting institution among the worst.

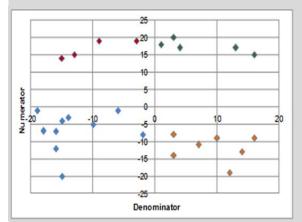


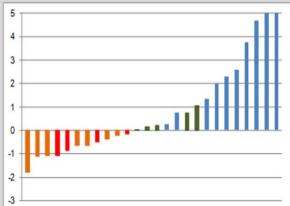
Box 2. An illustrative stylised example of the methodological concerns when numerators and denominators of a ratio take positive and negative values.

In order to illustrate the discussion in this section, it may be useful to look at a stylised example to better understand the effect that negative numerators and denominators in a ratio can have when analysing the information.

Let us suppose the following values of the numerators and denominators of a ratio (Figure 1) on a sample of reporting institutions. Green values show positive values for numerator and denominator, which would generate a positive ratio. In the case of red and orange values, the ratio would have a negative sign, as they have either the numerator or the denominator with negative sign. Finally, those items in blue would have a positive ratio from having a negative numerator and denominator. The values of these ratios are sorted in Figure 2.

Figure 1: Plotted values of numerators and Figure 2: Sorted values of the resulted ratios denominators



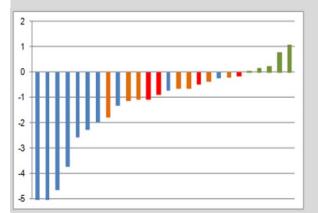


In this case, those data points with negative numerators and denominators are the ones placed in the top positions of the ratio. If we translate this situation to a ratio which, for example, has as numerators and denominators net gains or losses, these institutions would be perceived as the 'best performers', while the reality is that they are the 'worst performers'. Therefore, it is necessary to ex-post work on the calculated values of these ratios to avoid this kind of issue, as it may have negative consequences for our analysis.

The most suitable option would be to change the sign of those ratios with the negative numerator and denominator into negative, in order to not have positive ratios that could provide the wrong picture. If that is implemented in our stylised example, the results would be as in Figure 3.

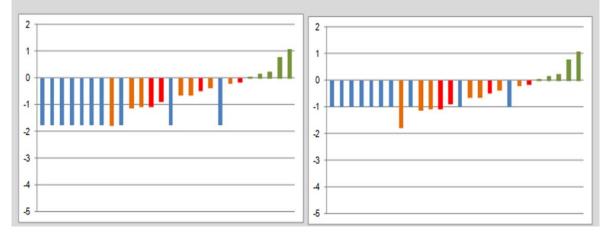


Figure 3: Values of hypothetical ratios with artificial changes in the sign



For illustration purposes, Figures 4 and 5 depict how the different values of the risk indicators would look in this example if the alternatives of allocating the minimum value and -100% to those ratios with a negative numerator and denominator were adopted. As can be observed, such solutions would entail a significant loss of analytical power of the values reported.

Figure 4: Values of hypothetical ratios with Figure 5: Values of hypothetical ratios with allocation to the minimum value allocation to -100%



II.3 Using statistical measures (averages, percentiles, and standard deviations)

The indicators presented in Part I of this Guide will usually be published and used in an aggregated form. In other words, they will not cover just one institution but several of them – for example, those used in the context of the EBA risk dashboard. However, different types of aggregation can be carried out, such as by country, by size or by nature of the underlying reporting institutions, and others. In these cases, the analytical power of a given indicator is not



fully utilised only if one observation is used from the relevant sample, whether this is an average, median or a weighted average.

In particular, from a prudential point of view, the interest is not often on the average of the institutions comprised in the sample, but on the possible outliers which may exist. In the same vein, simple averages do not take into account the relative importance of institutions; for instance, in the specific case of a sample composed of banks of different sizes, the smallest bank may have the same weight in the determination of the average than the largest bank in the sample. Therefore, it is necessary to complement the value of the indicator with additional statistical measures that may provide further information on where the values of the indicator for each individual institution lie. The following paragraphs aim at describing, in brief, some of the most common statistical measures.

The use of weighted averages aims at considering the relative weight of each individual institution in the sample in the calculation of the value of a certain indicator. The relative weight is calculated by referencing an external variable (e.g. total assets), which is expected to provide a solid estimation of the weight of each institution in the sample. Therefore, with the use of weighted averages, larger institutions count more than smaller institutions and the final value of the indicator may have a bias towards this set of institutions, hiding those smaller institutions from view. This is illustrated in the theoretical example below, where larger institutions take the lowest values: interfering

Table 13: Signs in the calculation of growth rates between two different values

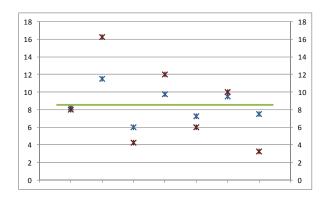
Value of indicator	External variable
8.25	90
11.50	70
6	140
9.75	45
7.25	80
9.5	60
7.5	110
Simple average:	8.54
Weighted average:	8.07

Weighted averages are always used in the context of the EBA risk indicators' aggregates.

With regard to the dispersion of values of an indicator as selected by each reporting institution in the sample, the most basic statistical measure used is the standard deviation, which measures the distance from the observation of a given institution to the average. Low values of the standard deviation point to a concentration of observations around the average, whereas high values of the standard deviation indicate a wide range of values (see, for example, Chart 6 below, where the standard deviation of the red dots would be higher than that of the blue dotes, while both have the same average). In that sense, it must be noted that the standard deviation does not provide any further information on how the individual observations are placed in relation to the average, so that values above and below the average are treated the same.

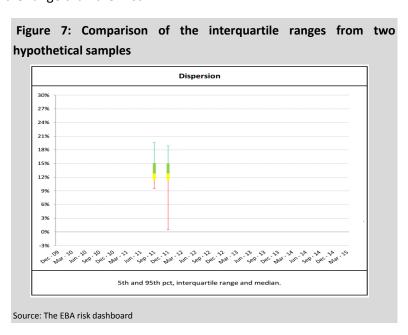


Figure 6: Relative positions of values in relation to the sample's standard deviation



To overcome this issue, it is possible to use percentiles, which allow the user to better understand the range of values taken by the individual reporting institutions. The percentile X represents the value that takes the observation that represent up to X of the total sample. For example, the percentile 10 represents the value of the indicator taken by the individual observation that includes 10% of the sample. The most common percentiles used are the quartiles (25%, 50% and 75%). Maximum and minimum amounts are widely used as well. Applying percentiles helps the user better understand the concentration of values taken by a given indicator and the potential existence of outliers. For example, if the third quartile is situated very far from the average, it may indicate that most of the values of the indicator are above the average and that there are a reduced number of observations well below the average that determine the final value of the average.

Chart 7 depicts the quartiles of two series, and it can be observed how the second series has a wider interquartile range than the first.





The 50% percentile, i.e. the median, represents the value that cuts the sample into two halves, one with values above the median and the second with values below. If we continue with our example in the previous paragraphs, the previous two series have an average of 8.54, whereas they have a median of 8.25 and 8 respectively. That broadly indicates that both series have more observations under the average than above the average, but the latter observations are more distant from the average value than the former.

Finally, in a different domain, a statistical measure that may be used for assessing concentration is the Herfindahl index. This index is primarily used to assess the competition and concentration in a given industry by looking at the relative importance of the firms involved. If 'S' represents the market share of each firm in the industry, expressed as a percentage, the Herfindahl index can be calculated as follows:

$$H = \sum_{i=1}^{N} S_i^2$$

Here, N is the number of firms in the industry. Increases in the Herfindahl index generally indicate a decrease in competition (increase in concentration), whereas decreases indicate a reduction in concentration (i.e. a competitive industry with no dominant players). When 'S' is expressed as a percentage (e.g. 0.1), the Herfindahl index ranges from 1/N to 1.

In order to transform the Herfindahl index to a range between [0,1], the normalised Herfindahl index (H^*) is introduced, which can be calculated as follows:

$$H^* = \frac{(H - 1/N)}{1 - 1/N}$$

Here, H is the Herfindahl index as calculated above. It is rather straightforward to extend the use of the Herfindahl index to other fields, especially to the area of concentration risk. For example, in the case of exposures in different countries, the Herfindahl index can be used to assess whether the exposures of a certain institution are concentrated to a reduced number of countries or not. It can also provide interesting comparative information for those banks more active on a crossnational basis.

For example, let us assume the following exposures of three reporting institutions towards a small set of countries.

Reporting institution Y

Reporting institution Z

Reporting institution X

Table 14: Herfindahl indices

	- Fym o sure	[0 1]	- Fym o sumo	[0.4]	- Fyranciuma	[0.1]
	Exposure	[0,1]	Exposure	[0,1]	Exposure	[0,1]
Country A	50	0.5	5	0.05	80	0.8
Country B	10	0.1	20	0.2	20	0.2
Country C	5	0.05		0		0
Country D	25	0.25	25	0.25		0
Country E		0	20	0.2		0
Country F	10	0.1	30	0.3		0
Total exposures	100	1	100	1	100	1
Normalised	0.202 (20.29	%)	0.082 (8.2%	6)	0.616 (61.6	5%)



Herfindahl index

The Herfindahl index of the third reporting institution is significantly higher than the other two, as it concentrates its activities in only two countries. Similarly, the second reporting institution has the lowest value of the index, as its exposures appear to be more diversified among the countries.

In addition to the measurement of concentration of exposures in certain countries, the Herfindahl index can be used in other areas within the ITS on supervisory reporting, such as concentration of exposures across exposure classes, sectors of the counterpart, currencies, and so on.

II.4 Reporting by currency in the ITS liquidity templates

The framework for the reporting of liquidity templates (LCR, NSFR) is defined in Article 415 of the CRR, Articles 15 and 16 of the ITS on supervisory reporting, and Annexes XII and XIII of the latter.

In accordance with Article 415(2)(a and b) of the Regulation (EU) No 575/2013 (CRR), an institution shall separately report items in Article 415(1) to the competent authorities when it has aggregate liabilities in a currency different from the reporting currency (under paragraph 1) amounting to or exceeding 5% of the institution's or the single liquidity subgroup's total liabilities or a significant branch in accordance with Article 51 of Directive 2013/36/EU in a host Member State. In other words, institutions shall report separately for all significant currencies. In practice, this implies that the reporting template must be filled separately for each significant currency.

What is missed in the current reporting requirements for liquidity is the reporting of positions in the reporting currency, which should be part of the requirements not only for the sake of completeness, but also for analytical reasons. Therefore, any analysis by currency of the liquidity risk of a given institution would miss precisely the most relevant currency: the reporting currency. The only data available in the reporting currency already incorporates all other significant currencies, which, in the case of large cross-border institutions, is expected to be important in absolute terms. Analogously, any analysis by currency that is based on aggregated data (for example, liquidity risks from USD positions by EU banks) will not be complete, as it would exclude those cases where the currency is a reporting currency of an institution that also reports other significant currencies.

Third, similarly to other parts of the ITS on supervisory reporting, where there are thresholds, the introduction of the 5% threshold in the definition of significant currencies must be considered when carrying out any analysis of the data. Any analysis by currency shall be aware of the fact that when that currency is not significant for a number of banks, it is not reported. In other words, only when a given currency is significant, it is reported. That would exclude from the scope of the analysis those cases where currency positions are of marginal importance in the reporting institution's balance sheet, but have the potential to trigger significant adverse consequences for the institution (be it in terms of the adverse evolution of exchange rates, in terms of the high risk



attached assets or liabilities held in that currency, or be it for any other cause). To sum up, the reporting threshold prevents a full coverage of each currency to be reported, a fact that, in some extreme cases, may lead to the omission of some important facts (for example, many institutions with small but risky exposures towards a given currency).

Last but not least, the ITS templates of C 51.00 (liquid assets), C 52.00 (outflows) and C 53.00 (inflows) require more than one value to be reported. In aggregated terms, these three templates may ask for:

- Amounts and amounts due;
- Market values;
- Market values in accordance with Article 418 of CRR;
- Undrawn amounts of a line;
- Outflows and inflows.

Amounts and undrawn amounts of a line refer to very specific positions (cash, exposures to central bank, credit facilities, etc.) and do not appear in combination with the others. Market values and market values in accordance with Article 418 of the CRR are widely used in the three templates. The difference between them is that the latter comprises '[...] appropriate haircuts that reflect at least the duration, the credit and liquidity risk and typical repo haircuts in periods of general market stress'. Since the application of the haircuts set out in Article 418 of the CRR will be different across entities, as it involves certain judgement to be carried out and seeks to achieve the highest possible level of comparability amid institutions, it was decided to use market values instead of market values in accordance with Article 418 of the CRR.

Finally, outflows and inflows appear only in templates C 52.00 and C 53.00 respectively, and always in combination with amounts, market values or market values in accordance with Article 418 of the CRR. Given the methodological challenges for their calculation, the WSRI has decided, for the time being, to not consider them in the numerators and denominators of indicators, but rather to refer to amounts and market values, as previously stated, as they are more consistent and robust measurements at this point in time.

II.5 The use of flow data in risk indicators – what is really meant by this?

In many risk indicators, it is common that the numerator, the denominator or both express a concept that extends over a period of time (flow), rather than the static situation of an item at a point in time (stock). In such cases, and especially when the underlying data is submitted with a



higher frequency than annually, the question that may arise is which period of time is this flow intended to cover. In other words, when an indicator is referring to flows over a period, it is not clear when that period starts and how the underlying data should be computed.

For example, when referring to 'RoE', defined as the ratio between the net profit of the period and the equity of the reporting institution, the net profit covers cumulative net profit during the financial year, resulting in different periods for each reference date according to the methodology used for its collection. This is particularly the case for financial reporting, whereas other prudential reporting often requires non-cumulative flows for each quarter of the calendar year.

To that end, there are four alternatives on how to report flow information, each one with its own advantages and disadvantages. These are described in the following paragraphs, with the assumption that the underlying information is reported on a quarterly basis:¹³

- 1. Refer only to the amounts produced in the quarter. In this case, the flow information for quarterly reported data would cover 3 months, irrespective of whether it is the first, second, third or fourth quarter of the year. Despite the consistency this solution introduces in the indicators' compilation, as all the quarters would contain amounts purely generated during 3 months. One possible reason for this stems from the fact that some important charges in the profit or loss account (where all the items are reported as accumulated flows) are made in the last quarter of the year; therefore, under this approach, indicators for the fourth quarter would depart from the values reported in the previous quarters, showing a strong seasonality over the years. Calculating flow-based indicators for each quarter would be justified when analysis is focusing on the latest trends or on the activities during a quarter for example, when analysing an individual bank's trading income or impairments.
- 2. Consider the last four quarters (moving year). In this case, the natural year is not followed and all the observations cover the period of the last 12 months. That would mean, for example, that for Q1, data from Q2, Q3 and Q4 of the previous year would also be considered. Such a solution ensures consistency across observations, as all of them would cover periods of the same length (12 months), and it would avoid the seasonality of the previous alternative. Nonetheless, although sound from a methodological point of view, this option implies that the link between the natural and the accounting (which often coincides with the natural) year is broken, so it is not very widely used in the domain of supervisory statistics. This approach would be preferred for sector-wide computations, where it is important to have comparable data.
- 3. Compute the data on a year-to-date (YTD) basis. This is the solution adopted in the ITS on supervisory financial reporting (see Article 2(2)) and reinforced by Q&A 126 and 619, in which FINREP is concerned. In this case, data of the first quarter would cover 3 months, data of the second quarter 6 months, data of the third quarter 9 months and data of the fourth quarter 12 months. At the end of the natural year, in the period covering 12 months, the counter would start again and the first quarter would cover 3 months and so

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 $^{^{\}rm 13}\,$ It is rather easy to apply the discussion to monthly or semi-annual frequencies of reporting.



on. In spite of the inconsistency in the duration of the period covered by the flows, this alternative is widely used in supervisory reporting.

4. Extrapolate the amounts for each quarter, or on a YTD basis, to a period covering 12 months. In the first case, all reported amounts for the quarters shall be multiplied by four. When on a YTD basis, amounts for Q1 would be multiplied by four, the second quarter by two, and the third quarter by four thirds. The main drawback of this option, from a methodological standpoint, is that it assumes that the information behaves consistently and that it can be extrapolated to the whole year. While this can be the case for the YTD data of the third quarter, which covers 9 of the 12 months of the year, this assumption becomes more dubious for the data in the first quarter, which only covers 3 months, and which may give a value for the whole year that is quite far from the real one. Furthermore, negative values (i.e. a net loss) could potentially increase the forecast error in extrapolating flows based on one or two quarters. This approach is currently used to compute KRIs.

To use the example of the RoE, the reporting of this ratio would be as follows, according to these four alternatives.

Table 15: RoE ratio based on different flow measures

	Q1	Q2	Q3	Q4
Net profit for the period				
1. Amounts generated in the quarter	Q1	Q2	Q3	Q4
2. Last four quarters (moving year)	Q1 + Q4t-1 + Q3t-1 + Q2t-1	Q2 + Q1 + Q4t-1 + Q3t-1	Q3 + Q2 + Q1 + Q4t-1	Q4 + Q3 + Q2 + Q1
3. YTD basis	Q1	Q2 + Q1	Q3 + Q2 + Q1	Q4 + Q3 + Q2 + Q1
4. Extrapolation of YTD	Q1 x 4	(Q1 + Q2) x 2	(Q1 + Q2 + Q3) x 4/3	Q4 + Q3 + Q2 + Q1
Equity	As of 31 March	As of 30 June	As of 30 September	As of 31 December

Assuming a net profit in each quarter of 200, 150, 250 and 50 (and 200, 150 and 50 for the second, third and fourth quarters of the previous year), and a total equity of 1 000 constant during the year, the return of equity according to the four alternatives would take the following values.

Table 16: Numerical representation of table

Ω1

	Q1	Ųž	Ų3	Q4
Net profit for the period				
1. Amounts generated in the quarter	200	150	250	50
2. Last four quarters (moving year)	200 + 50 + 150 + 200 = 600	150 + 200 + 50 + 150 = 550	250 + 150 + 200 + 50 = 650	50 + 250 + 150 + 200 = 650

Ω2

U3

 Ω



				_
3. YTD basis	200	150 + 200 = 350	250 + 150 + 200 = 600	50 + 250 + 150 + 200 = 650
4. Extrapolation of YTD	200 x 4 = 800	(200 + 150) x 2 = 700	(200 + 150 + 250) x 4/3 = 800	50 + 250 + 150 + 200 = 650
Equity	1 000	1 000	1 000	1 000
RoE				
1. Amounts generated in the quarter	0.20	0.15	0.25	0.05
2. Last four quarters (moving year)	0.60	0.55	0.65	0.65
3. YTD basis	0.20	0.35	0.60	0.65
4. Extrapolation of YTD	0.80	0.70	0.80	0.65

From this basic numerical example, it can be seen how the first alternative (consider only amounts generated in the quarter) produces indicator values much lower than those generated by the other three alternative calculations, as the latter cover, in one way or another, a period of 12 months. It is also worth noting how the moving year, the YTD basis and the extrapolation of YTD reach the same value at the end of the fourth quarter, but they follow a different path to get to it. While the calculation of the last four quarters in a moving year provides the most stable range of values, the incremental component embedded in the YTD basis is clearly seen, as is the highest volatility in the values taken when extrapolating the YTD data to the full natural year.

As briefly outlined in the previous paragraphs, none of the solutions are clearly better than the others, and the choice depends mainly on the purpose of the analysis in which the indicator will be used. In fact, all of them have good arguments in their favour and methodological drawbacks against them. Having said that, the stylised example used in this section has outlined how the choice between the four calculation methods can have an important impact on the values that will be taken by the indicator under analysis; in a way, it shows that the analysis itself may change depending on which alternative is finally taken. The use of YTD data (option 4), also when annualised to the full year, is the most suitable in the field of supervisory reporting, and thus the one used by the EBA when computing relevant risk indicators.

II.6 The 'follow-the-money' approach

In October 2011, the FSB published the report, Intensity and effectiveness of SIFI supervision, 14 where it was pointed out that a key challenge for supervisory authorities is a clear understanding of firms' business models and the risk embedded in them.

A starting point is a detailed analysis of firms' financial statements and reports to obtain a deeper understanding of the drivers of revenues and trends that are developing in the firm, and to determine whether these trends are consistent with the firm's stated risk appetite and are sustainable. This 'follow-the-money' approach enables supervisors to focus on key businesses whose failure would cause problems for the firm, as compared to other business units whose failure could have no or little impact on the firm.

 $^{^{14} \ \ \ \}textbf{See also:} \ \underline{\text{http://www.financialstabilityboard.org/publications/r_101101.pdf}.$



Currently, all supervisory authorities focus on key financial risks (such as credit, market, etc.) by improving their already existing models, but this in-depth analysis may lead to a lack of vision regarding the whole risk of the firm. On the other hand, supervisory authorities could have a clearer vision about the risk drivers embedded in the risk of the firm and could increase the effectiveness of their activity by directing their efforts towards the specific area whose failure might cause problems for the firm. This proposal starts from a very common financial formula – return on equity (RoE) – in order to understand the drivers of revenues and to determine where the relevant risks are.

The starting point to assess the firm's business model and the risk embedded in it is the RoE formula, which makes clear the main sources of capital yield:

$$RoE = NoP/Asset \times Asset/Equity \times EbT/NoP \times NP/EbT$$

Here

NoP / Asset = Net operating profit/Total leverage ratio exposures =

= Net asset yield contribution

Asset/Equity = Total leverage ratio exposures/T1 capital =

= 1/Leverage contribution

EbT/NoP = Profit or loss before tax/Net operating profit =

= Non-operating incomes or expenses contribution

NP/EbT = Net profit/Profit or (-) loss before tax =

= Tax effect on the capital yield =

= 1 - Tax rate

According to this formula, we can assume that the results of the bank's business model is based on internal factors that are managed by the firm, such as asset and financial structure, or on external factors not managed by the firm and which may depend on one-time factors that are unlikely to occur in the future or contingent on factors such as fiscal policy. Obviously, the main part of the capital yield should be the asset yield contribution but, in financial intermediaries, leverage is often a key driver of capital yield.

This approach enables us to analyse the return on investment. Before moving forward, it is worth recapping the abbreviations that will be used later in the discussion on the return on investment. Some of them have already been used for the analysis of RoE, are disclosed in Table 17 below.

Table 17: Building components of the RoE ratio

AdE	Administrative expenses	Loanb	Loan to banks
AdV	Added value = Operating income -	Loanp	Loan to private



Administrative cost (without st	aff	
expenses)		
Banking book	NetFop	Net financial other operations
Banking deposits	NetH	Net financial hedging
Private deposits	NetT	Net trading
Earnings before tax	NetTrP	Net trading profit
Own funds	NI	Net interest
Financial asset	NIF	Net interest and fee
Financial other asset	NoP	Net operating profit
Financial liabilities	Opl	Operating income
Interest expenses	ОрР	Operating profit
Interest expense from bank	RWA	Risk-weighted asset
Interest expenses from private	RWAcr	Credit risk-weighted asset
Interest expenses from securities	RWAmr	Market risk-weighted asset
Interest income from banks	Sec	Securities
Interest income from banking book	StaffE	Staff expenses
Interest income from other	TrB	Trading book
Interest income from private		
	expenses) Banking book Banking deposits Private deposits Earnings before tax Own funds Financial asset Financial other asset Financial liabilities Interest expenses Interest expenses from bank Interest expenses from private Interest expenses from securities Interest income from banks Interest income from banking book Interest income from other	expenses) Banking book NetFop Banking deposits NetH Private deposits NetT Earnings before tax NetTrP Own funds NI Financial asset NIF Financial other asset NoP Financial liabilities Opl Interest expenses OpP Interest expenses from bank RWA Interest expenses from private RWAcr Interest expenses from securities RWAmr Interest income from banking book StaffE Interest income from other TrB

To that end, the firm's core business should be analysed using a step-by-step approach, taking the return on investment as the starting point.

First step:

$$RoI = OpP/Asset \times NoP/OpP$$

Here

$$NoP / OpP$$
 = Weight of risk

Second step:

$$OpP / Asset = OpI / Asset \times OpP / OpI$$

Here

$$OpP / OpI$$
 = Bank's efficiency level

Third step:

$${\it OpI}/_{\it Asset} = {\it NI \over \it FiA} \times {\it FiA \over \it Asset} \times \it NIF/NI \times \it OpI/NIF$$



Here

NI/FiA = Banking activity

FiA/Asset = Share of financial asset of total asset

NIF/NI = Component fee

OpI/NIF = Trading performance

The third step shows the contribution of different banking business activities: banking, services and trading. In this case, the banking activity is proxied by the formula:

```
NI / FiA = InI/FiA - (InE/FiL \times FiL/FiA)
```

It could be useful to further analyse how this margin is determined. Below there are some examples of how this stream of analysis can be pursued more in depth.

Income analysis: contribution of different portfolios to the interest income.

```
InI / FiA
= (InIb/Loanb \times Loanb/FiA) + (InIp/Loanp \times Loanp/FiA) + (InIo/FiAo \times FiAo/FiA)
```

Funding analysis: the cost of different liabilities that are used for funding.

```
InE / FiL
= (InEb/Depb \times Depb/FiL) + (InEp/Depp \times Depp/FiL) + (InEs/Sec \times Sec/FiL)
```

Trading performance analysis: the main drivers for the trading performance (OpI|NIF) are:

NetT/OpI = Contribution of trading activity

NetH/OpI = Contribution of hedging activity

NetFop/OpI = Contribution of financial operations other than trading and hedging

After analysing the main sources of income, the analysis may continue with the second driver of the asset performance: the efficiency of the bank. The starting formula, taken from step 2 above, is: OpP/OpI

The level of bank efficiency mainly depends on two factors:

Structural efficiency AdE/Asset

Staff efficiency *StaffE/AdE*



Usually, the expense for the staff is a key element of the bank's costs, so it could be useful to verify the level of staff efficiency in the different funding bank's activities and performance.

Funding activities:

Deposits $Depp/N^{\circ} emp$

Securities $Sec/N^{\circ}emp$

Fund management FM/N° emp

Performance:

Income OpI/N° emp

Cost AdE/N° emp

Value added AdV/N° emp

In order to verify the bank's productivity, there are two indicators that can be used:

Staff unit cost $StaffE/N^{\circ} emp$

Profit per employee OpP/N° emp

Furthermore, for the bank's core business, a risk-adjusted return analysis should be performed. At this stage, it is considered that the banking book reflects the bank's core business. The starting point for this analysis would be:

$$InIbb/BanB = InIbb/RWAcr \times RWAcr/BanB$$

Here

InIbb/RWAcr = Risk-adjusted return on asset

RWAcr/BanB = Risk management effect

A similar analysis can be carried out on the trading book:

$$NetTrP/TrB = NetTrP/RWAm r \times RWAmr/TrB$$

Here

NetTrP/RWAmr = Risk-adjusted return on asset

RWAmr/TrB = Risk management effect

Last but not least, banking activities typically rely heavily on leverage, which may be risky if used at an extreme level. According to the Basel regulation, the level of a bank's own funds is related



to the RWA, so it could be useful to verify how much of the leverage depends on the management effect.

 $Asset/Equity = Asset/RWA \times RWA/Equity$

Here

Asset/RWA = Risk management effect

RWA/Equity = Leverage risk adjustments

To sum up, the analysis hereby presented is based on the profit and loss account of a given institution, and aims at determining the main drivers therein. Among others, these drivers can derive from the core activities of the institution (banking book) or from its trading activities (trading book). In parallel, this approach pays special attention to the efficiency and productivity of an institution, a domain usually scarcely assessed. Therefore, in order to carry out this analysis, several indicators (as set out in Table 18 below) must be compiled. Out of this set, the main indicators (the first layer) are included under the PFTs section (I.4 of this Guide).

Table 18: Building components of the 'follow-the-money' approach

Number	Formula	Name
PFT 21	NP/Equity	Return on equity
PFT 17	NoP/Asset	Return on investments
PFT 18	Asset/Equity	Leverage
PFT 19	EbIT/NoP	Non-operating earnings
PFT 20	NP/EbIT	Tax effect
	OpP/Asset	Operating profit to total asset
	NoP/OpP	Net operating profit as % of operating profit
	Opl/Asset	Operating income to total asset
	ОрР/ОрІ	Operating profit as % of operating income
	NI/FiA	Net interest to financial asset
	FiA/Asset	Financial asset as % of total asset
	NIF/NI	Net interest and fee as % of net interest
	Opl∕NIF	Operating income to net interest and fee
	Inl/FiA	Interest income to financial asset
	InE/FiL	Interest expenses to financial liabilities
	FiL/FiA	Financial liabilities to financial asset
	INIb/Loanb	Interest income from credit institutions to credit institutions loan
	Loanb/FiA	Credit institutions loan as % of total financial asset
	InIp/Loanp	Interest income from corporate to corporate loan
	Loanp/FiA	Corporate loan as % of total financial asset
	InIo/FiAo	Interest income from other to other loan



FiAo/FiA InE/FiL	Other financial asset as % of total financial asset
InE/FiL	Laborate annual de Consider Debiter
	Interest expenses to financial liabilities
InEb/Depb	Banking interest expenses to banking deposit
Depb/FiL	Banking deposit as % of total financial asset
InEp/Depp	Corporate interest expenses to corporate deposit
Depp/FiL	Corporate deposit as % of total financial asset
InEs/Sec	Securities' interest expenses
Sec/FiL	Securities as % of total financial asset
NetT/OpI	Net trading as % of operating income
NetH/OpI	Net hedging as % of operating income
NetFop/OpI	Net other financial operations as % of operating income
AdE/Asset	Administrative expenses to total asset
StaffE/AdE	Staff expenses as % of total administrative expenses
Depp/N° emp	Corporate deposit to number of employees
Sec/N° emp	Securities to number of employees
FM/N° emp	Fund management to number of employees
OpI/N° emp	Operating income to number of employees
AdE/N° emp	Administrative expenses to number of employees
AdV/N° emp	Added value to number of employees
StaffE/N° emp	Total staff expenses to number of employees
OpP/N° emp	Operating profit to number of employees
InIbb/BanB	Interest income from banking book to banking book
InIbb/RWAcr	Interest income from banking book to credit risk-weighted asset
RWAcr/BanB	Credit risk-weighted asset to banking book
NetTrP/TrB	Net trading profit to trading book
NetTrP/RWAmr	Net trading profit to market risk-weighted asset
	Depb/FiL InEp/Depp Depp/FiL InEs/Sec Sec/FiL NetT/OpI NetH/OpI NetFop/OpI AdE/Asset StaffE/AdE Depp/N° emp FM/N° emp OpI/N° emp AdE/N° emp StaffE/N° emp OpP/N° emp InIbb/BanB InIbb/RWAcr RWAcr/BanB



Asset/RWA	Total asset to risk-weighted asset	
RWA/Equity	Risk-weighted asset to equity	

II.7 Peer group analysis

In line with the discussion in previous sections II.1 and II.2, the risk indicators presented in this Guide may be used over an aggregation of reporting institutions. At this point, how reporting institutions are aggregated together becomes important and it is where the concept of the 'peer group' arises.

Peer group analysis (PGA) can be defined as the process of comparing an institution to its peers (peer group). A peer group is a set of entities that share similar characteristics on the basis of analytically relevant criteria. PGA has been used to compare the performance or positioning of an institution to its competitors, for investment selection, stock valuation, fraud detection, executive compensation, clustering analysis, and so on.

PGA can also be extended to assess how a particular strategy or change in market conditions might affect the position of an institution compared to its peers, which is known as peer group risk (PGR). Ultimately, this means introducing sensitivity analysis to PGA. In either PGA or PGR, the introduction of the temporal dimension adds more power and insight to the analysis.

The definition of 'peer group' depends on the purpose of the study, and will have an important impact on the analysis performed. Once the objective of the study is clear, a target set of dimensions can be chosen to slice and dice the data to select the peers, and the wide variety of risk indicators within each group can be used to compare a specific institution to the group or the group to population averages.

A wide variety of peer groups can be created by combining different data dimensions, and descriptive statistics can be calculated to examine the dispersion and concentration of institutions within the group. The creation of customised peer groups and PGA can be greatly facilitated by data placed in a flexible IT infrastructure that would allow the user to slice and dice the data across several dimensions and automatically generate statistics and trend analysis. In this context, the facts (risk indicators) could potentially become dimensions, generally after a bucketing on the risk indicator has been performed. Though the main data source would be risk indicators generated from regulatory returns, the addition of external information either from NCAs or from market sources would only enrich the analysis and insight.

There are several methodologies for choosing peers, some of which are:

1. Data model: this method compares the mean, median and variance (as well as potentially other statistical measures) of each variable for potential groups. The peer group's mean and median for the different risk indicators would ideally be close to the target institution's values and the variation close to zero;



- Cluster analysis: it is a statistical technique that identifies entities sharing similar features in a multidimensional environment by minimising a measure of distance among the risk indicators evaluated;
- 3. Threshold approach: it uses thresholds on data to narrow the population and find a set of peers. Thresholds are usually selected arbitrarily and can consist of a set of rules rather than a single value point;
- 4. User defined: the user directly decides the peers to whom they will be compared.

The number of peers within a group required to provide a meaningful analysis varies from author to author, some stating that groups should be of 10-12 members while others limiting the size to 10-30. Ultimately, the size of the group would depend on the objective of the PGA and the available dimensions in the dataset to generate groups of similar characteristics.

Once the groups have been defined, we can start comparing the different risk metrics within the group and across groups. It is common to use intragroup (e.g. top 5-10 average or best in class) or population averages to compare the different institutions and to look at the evolution of the measures over time. Averages here may mean weighted averages, trimmed averages (where x% of the top and bottom observations have been removed) or a combination of both. By comparing the evolution of these indicators, it may be possible to identify outliers in the group, diverging/converging trends that can indicate changes in the risk profile of the entity within the group, and even transitions to other groups. All these signs are worthy of investigation.

Risk metrics or performance metrics would correspond to the list of risk indicators, calculated at the appropriate aggregation level determined by the dimensions used to generate the peer groups. Thus, for example, it is not the same to aggregate values at a country level as to aggregate the input values and then calculate the indicator, the latter being preferred to the former. When a risk indicator is used as a dimension, it generally loses its relevance as a risk measure.

Some useful dimensions that could be used to create peer groups are:

- Asset size: this variable has extensively been used to define the systemic importance of an
 institution and its impact on the local economy. Though not the only variable used, we
 could reuse here the readily available classifications of systemically important financial
 institutions or any other classification elaborated;
- Business lines: retail (deposit-taking) banks, commercial banks, and mortgage banks;
- Type of ownership: public-government controlled entities, privately owned banks, and bailed-out entities;
- Country and currency dimensions;
- Portfolio: residential BTL, residential PDH, CRE, SA, IRB, credit cards, car loans, loan and advances, debt securities, securitisations, and so on;



- External ratings: in this category, we can also consider the impact and probability risk ratings to be developed by the ECB in combination with traditional ratings from S&P, Fitch, and so on;
- Strategy: although a more difficult topic to classify, institutions could be classified depending on their business strategy or business model. As this is generally focused on the asset side, attention should also be given to the liability side in terms of their funding strategies.

Clearly, this is not an exhaustive list, but it helps to understand the concept of a dimension.

An issue that one should be aware of is the level of aggregation at which the PGA is conducted. Analysis on an individual institutional level provides more granularities and a better understanding of the evolution and differences with peers, especially if the user has knowledge on the entities from some sort of supervisory engagement. However, this provides information on specific institutions and confidentiality limitations may apply. In these situations, aggregation of the data is required to ensure that individual information cannot be derived from the information available, and the outputs are suitable for external publication.

Although PGA is a useful tool that is widely used in business and finance, it is not free of risks and limitations that the user should be aware of:

- 1. Compare like with like: the main objective when defining peer groups is to ensure that participants in each group are approximately similar so that we can compare like with like. This may be a difficult task as peer selection may change depending on the dimensions or methodology used, and it is not always clear what is the right set of dimensions (and hierarchy) and some of these can be difficult to identify or measure. Because of the difficulty to identify or measure, strategies, business models or investment objectives are usually not taken into account when selecting groups, leading to poor peer selections;
- 2. Poor metric definitions: if the metrics are not well defined, there might be inconsistencies in the calculation and uncertainty from the analyst on how to interpret the data. As the new set of risk indicators is well defined based on the XBRL taxonomy, this risk is minimal in our context;
- 3. Annualising data: this may falsely represent performance, especially when institutions realise a one-time or seasonal source of income that will not reoccur over time;
- 4. Survivorship bias: this happens when institutions close their business or merge and, therefore, are no longer in the universe of entities. As the surviving institutions may present better performance results or be bigger in size, averages may be upwardly biased. The composition of the universe is also affected by institutions coming in and out of the reporting requirements as they fulfil or fail to fulfil the conditions to be in the sample;
- 5. Singular benchmark for decision-making: when PGA is used in decision-making, actions based on what peers have done rather than on an institution's own merits may lead to wrong decisions. In addition, this could lead to a bias for the status quo, as the entity may lean towards avoiding changes to stay similar to its peers. It is also important to understand the underlying reasons for the trends or performance changes we see in the PGA, and why they have been better or worse. Similar strategies in different institutions do not necessarily



- produce the same outputs and it is important to understand the reasons why they worked or did not work before implementing them for another entity within the group. Furthermore, it is relevant to notice that data aggregation would make it more difficult to gain insights over the underlying reasons of an issue or the problem may pass unnoticed after the aggregation;
- 6. Materiality: it is difficult to estimate the threshold beyond which divergences from the institution's peers become an issue too big to ignore and below which they are movements from the normal course of business.



ANNEX I.

Risk indicators



			Fraguer			Data vaint A					Data point B						Data nai			
Number	Name	Formula	Frequen cy	Description	Range of values	Data poir Templa	nt A			Templa	nt B			Data poi Templ	nt C			Data poi Templ	nt D	Ro Colu
						te	Sheet	Row	Column	te	Sheet	Row	Column	ate	Sheet	Row	Column	ate	Sheet	w mn
I. L	IQUIDITY RISK																			
LIQ 1	Core funding ratio (% of total liabilities) – 'Turner ratio'	Liabilities providing stable funding (A + B) / Total liabilities and own funds (C)	Quarterly	An alternative measure of stable sources of funding, as a proportion of total liabilities		C 61.00	Total	(040-250)	(010-050)	C 61.00	Total	010-020	050	F 01.03		310	010			
LIQ 2	Short-term wholesale funding Ratio (% of items providing stable funding)	Short-term liabilities from customers that are not financial customers + Short-term liabilities from customers that are financial customers (A) / Total items providing stable funding (B)	Quarterly	Indicates institutions' relative reliance on short-term wholesale funding	[0,1]	C 61.00	Total	(070-200)	(010-040)	C 61.00	Total	(010-250)	(010-050)							
LIQ 3	Liquid assets to short-term liabilities	Liquid assets (A) / Total items providing stable funding in less than 12 months (B)	Quarterly	Compares the stock of liquid assets to liabilities that are due to mature over the next 12 months		C 51.00	Total	(010-390) excl. 030	020 & 040 (if not available 030, if not available 040)	C 61.00	Total	(010-250)	(010-040)							
LIQ 4	Liquid assets ratio (% of total items requiring stable funding)	Liquid assets (A) / Total items requiring stable funding (B)	Quarterly	Gives the proportion of institutions' assets that can be considered as 'liquid'	[0,1]	C 51.00	Total	(010-390) excl. 030	020 & 040 (if not available 030, if not available 040)	C 60.00	Total	(010-1310) excl.030	(010-150)							
LIQ 5	Withdrawable funding (% of total liabilities)	Withdrawable retail deposits + Withdrawable liabilities from customers that are not financial customers + Withdrawable liabilities from customers that are financial customers (A) / Total items providing stable funding (B)	Quarterly	Gives the proportion of institutions' liabilities that are sight deposits (i.e. of open maturity, that are readily withdrawable) or funding that will mature within 3 months	[0,1]	C 61.00	Total	(040-200)	(010)	C 61.00	Total	(010-250)	(010-050)							
LIQ 6	Term funding (% of total liabilities)	Term retail deposits + Term liabilities from customers that are not financial customers + Term liabilities from customers that are financial customers (A) / Total items providing stable funding (B)	Quarterly	Gives the proportion of institutions' liabilities that are considered term funding of fixed maturity > 3 months. The converse of LIQ 5.	[0,1]	C 61.00	Total	(040-200)	(020-050)	C 61.00	Total	(010-250)	(010-050)							
LIQ 7	Share of central bank and publically guaranteed exposures within liquid assets	Central bank exposures (A) + claims / guaranteed by central banks and other public institutions (B)	Quarterly (monthly possible)	Gives an idea of the concentration of institutions' stock of HQLA in central Bank and publically guaranteed	[0,1]	C 51.00	Total	020	030	C 51.00	Total	(040-070, 100- 110)	020	C 51.00	Total	(010-390)	(020, 040)			



										_								WWW		
		/ Total liquid assets (C)		Exposures																
LIQ 8	Repos to total liabilities	Repurchase agreements held for trading (A) / Total items providing stable funding (B)	Quarterly	Indicates institutions' relative reliance on repos for funding	[0,1]	F 08.01		100, 150, 200, 250, 300, 350	010	C 61.00		(010-250)	(010-050)							
LIQ 9	Funding via derivatives (% of total items providing stable funding)	Liabilities from derivative payable contracts (A) / Total items providing stable funding (B)	Quarterly	Indicates institutions' relative reliance on derivatives as a source of funding	[0,1]	C 61.00		240	(010-050)	C 61.00		(010-250)	(010-050)							
LIQ 10	Firm specific currency concentration	Total items providing stable funding for currency A (A) / Total items providing stable funding (B)	Quarterly	Gives the concentrations of firm's liabilities in a particular currency, as a proportion of total liabilities	[0,1]	C 61.00	Curre ncy A	(010-250)	(010-050)	C 61.00	Total	(010-250)	(010-050)							
LIQ 11	Cash and trading assets to total assets	Cash and financial assets held for trading (A) / Total assets (B)	Quarterly	A broad measure of assets that are in some sense liquid ,as a proportion of total assets	[0,1]	F 01.01		010, 050	010	F 01.01		380	010							
LIQ 12	Cash, trading, and available- for-sale (AFS) assets to total assets	Cash, financial assets held for trading and available-for- sale financial assets (A) / Total assets (B)	Quarterly	A broad measure of assets that are in some sense liquid as a proportion of total assets. Similar to LIQ 11, but expanded to include assets treated as AFS.	[0,1]	F 01.01		010, 050, 140	010	F 01.01		380	010							
LIQ 13	Financial assets held for trading to total assets	Financial assets held for trading (A) / Total assets (B)	Quarterly	Indicates the proportion of assets that are financial assets held for trading.	[0,1]	F 01.01		050	010	F 01.01		380	010							
LIQ 14	Financial liabilities held for trading to total liabilities and equity	Financial liabilities held for trading (A) / Total liabilities and equity (B)	Quarterly	Indicates the proportion of liabilities that are financial liabilities held for trading. This indicator is the liability-side analogue of LIQ 13	[0,1]	F 01.02		010	010	F 01.03		310	010							
LIQ 15	Extremely high liquid assets to total liquid assets	Extremely high liquidity and credit quality assets / Total liquid assets ((A+B)/C)	Quarterly (monthly possible)	This indicator discloses how many extremely high liquidity and credit quality assets the reporting institution has when compared with	[0,1]	C 51.00	Total	(010-170) excl. 030	020 (if not available 030, if not available 040)	C 51.00	Total	(180-390)	020	C 51.00	Total	(010-390) excl. 030	020 & 040 (if not available 030, if not available 040)			



				the total liquid assets.						[
LIQ 16	Retail outflows to retail inflows	Outflows from retail deposits / Monies due from retail customers (A/B)	Quarterly (monthly possible)	Somehow similar to the loan-to-deposit ratio, but focused on the outflows and inflows from retail. It shows the importance of retail customers in the business of the reporting institution.	Greater than 0 and close to 1	C 52.00	Total	(020-90)	(020)	C 53.00	Total (010)	(020)			
II. FU	INDING RISK														
FND 1	Asset encumbrance to total assets	Encumbered assets/total assets (A/B)	Quarterly	Encumbered assets on total assets	Normally, values over 30% could be considered high, but reliable measure need to be calibrated over time	F 32.01		010	010	F 32.01	010	010, 060			
FND 2	Encumbrance of eligible assets	Encumbered eligible assets/encumb ered +unencumbere d eligible assets (A/B)	Quarterly	Encumbrance of central bank eligible assets	[0-1]	F 32.01		010	030	F 32.01	010	030, 080			
FND 3	Encumbrance of government bonds	Encumbered assets issued by general governments/e ncumbered + unencumbered assets issued by general government (A/A+B)	Quarterly	Encumbrance of government debt (own assets only)	[0-1]	F 32.01		070	010	F 32.01	070	060			
FND 4	Encumbrance of collateral	Encumbered collateral/total collateral received available for encumbrance	Quarterly	Encumbrance of collateral received	[0-1]	F 32.01		130	010	F 32.01	130	(010 + 040)			
FND 5	Overcollaterali sation	Encumbered assets/matchin g liabilities (A/B)	Quarterly	Overcollaterali sation ratios. It may be split by source of encumbrance or by asset type	Normally, 30% represented the 75th percentile	F 32.01		170	030	F 32.01	170	010			
FND 6	Contingent encumbrance	Additional amount of encumbered assets in the 30% decrease scenario/encumbered assets (A/B)	Annual	Additional amount needed in case of a 30% decrease in value of encumbered assets	Normally, 2% represented the 75th percentile	F 34.00		170	020	F 36.01.a	190	180			
FND 7	Encumbered assets at central bank	Central bank funding/encum bered assets (A/B)	Semi- annual	Share of encumbered assets used in central bank funding operations		F 36.01.a		010	180	F 36.01.a	190	180			
FND 8	% of total deposit covered by a Deposit Guarantee Scheme to total liabilities	Deposits covered by a Deposit Guarantee Scheme/ Total items providing stable funding (A/B)	Quarterly	The share of guaranteed deposits to total items providing stable funding	[0-1]	C 61.00		110	010-050	C 61.00	Total 040-250	010-050			
FND 9	Debt securities to total liabilities	Debt securities issued (A) / Total liabilities (B)	Quarterly	The share of debt securities in the funding mix (measured as a share of total liabilities)	[0-1]	F 01.02		050, 090, 130	010	F 01.02	300	010			



FND 10	Deposits from credit institutions to total liabilities	Deposits from credit institutions (A) / Total liabilities (B)	Quarterly	The relevance of deposits from credit institutions in the funding mix (measured as a share total liabilities)	[0-1]	F 08.01	160	010, 020, 030	F 01.02	300	010				
FND 11	Loans and advances (excl. Trading book) to total assets	Loans and advances excluding trading book (A) / Total assets (B)	Quarterly	The share of loans and advances in total assets	[0-1]	F 01.01	130, 170, 200, 210	010	F 01.01	380	010				
FND 12	Debt-to-equity ratio	Total liabilities (A) / Total equity (B)	Quarterly	The multiple of liabilities to equity as an indication of a bank's leverage	[0-1]	F 01.02	300	010	F 01.03	300	010				
FND 13	Off-balance sheet items to total assets	Loan commitments, financial guarantees given and other commitments (A) / Total assets (B)	Quarterly	It measures the relevance of off-balance sheet items (as a share of total assets)	[0-1]	F 09.01	010, 090	010	F 01.01	380	010				
FND 14	Annual growth rate of total assets	[[[Total assets (A)t / Total assets (A)t-12] -1] * 100]	Quarterly	It measures the annual growth rate of total assets	[0-1]	F 01.01	380	010							
FND 15	Annual growth rate of total loans	[[[Total loans and advances (A)t / Total loans and advances (A)t- 12] -1] * 100]	Quarterly	It measures the annual growth rate of total loans	[0-1]	F 01.01	090, 130, 170, 200, 230	010							
FND 16	Annual growth rate of total customer deposits	[[[Total deposits other than from credit institutions (A)t / Total deposits other than from credit institutions (A)t-12] -1] *	Quarterly	It measures the annual growth rate of total customer deposits		F 08.01	110, 210, 260, 310	010, 020, 030							
FND 17	Loan-to- deposit ratio	Total loans and advances (A) / Total deposits (B)	Quarterly	It gives an indication for which share of loans is funded by deposits	Greater or equal to 0	F 01.01	090,130,170,200,230	010	F 08.01	110,160,210,260,3 10	010, 020, 030				
FND 18	Customer deposits to total liabilities	Total deposits other than from credit institutions (A) / Total liabilities (B)	Quarterly	The relevance of customer deposits in the funding mix (measured as a share total liabilities)	[0,1]	F 08.01	110, 210, 260, 310	010, 020, 030	F 01.02	300	010				
FND 19	Proportion of short term liabilities with encumbered assets	Residual maturity of liabilities - encumbered assets up to 1 month / Residual maturity of liabilities - encumbered assets (A/B)	Quarterly	It measures how many of the encumbered assets are covering very short-term liabilities.	[0,1]	F 33.00	010	020-050	F 33.00	010	010-130				
FND 20	Proxy of secured funding	Carrying amount of selected financial liabilities / Total liabilities (A/B)	Quarterly	This proxy assumes that all assets encumbered are used for secured funding.	[0,1]	F 32.04	010	010	F 01.02	 300	010				
FND 21	Available collateral for encumbrance	Fair value of central bank eligible	Quarterly	The indicator discloses the collateral	Greater or equal to 0	F 32.02	130	060	F 01.02	300	010				



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	to total liabilities	collateral received and available for encumbrance / Total liabilities (A/B)		eligible for central banks that the institutions have available in case worsening market conditions impair their ability to get funding in the market												
FND 22	Share of deposits in non-domestic markets	Deposits in non-domestic activities / Deposits in domestic and non-domestic activities (A/B+A)	Quarterly	The indicator measures how large the non-domestic depositors base of the reporting institution is.	Greater or equal to 0	F 20.02	040, 080, 120	020	F 20.02	040, 080, 120	010					
FND 23	Share of financial liabilities in non-domestic markets	Financial liabilities in non-domestic activities / Financial liabilities in domestic and non-domestic activities (A/B+A)	Quarterly	The indicator measures how large the non-domestic depositors base of the reporting institution is.	Greater or equal to 0	F 20.02	010, 070, 110	020	F 20.02	010, 070, 110	010					
FND 24	Share of deposits of households and non- financial corporations	Deposits of households and non- financial corporations not held for trading / Total deposits (A/B)	Quarterly	It measures the importance of deposits from households and non- financial corporations (understood to be stable customers) on the overall amount of deposits.	[0,1]	F 08.01	260, 310	020, 030	F 08.01	050	010, 020, 030					
FND 25	Use of subordinated financial liabilities	Subordinated financial liabilities at cost and at fair value / Total liabilities (A/B)	Quarterly	The indicator measures the importance of subordinated financial liabilities as a component of the total liabilities of the reporting institution.	[0,1]	F 08.02	030	010, 020	F 01.02	300	010					
FND 26	Gains and losses of financial liabilities at fair value to their carrying amount	Gains or losses on financial liabilities held for trading by instrument + gains or losses on liabilities designated at fair value through profit or loss / Carrying amount of financial liabilities held for trading and designated at fair value through profit or loss ((A+B)/C)	Quarterly	It measures evolution during the period of fair value of the liabilities of the institution. This would indicate the price of funding compared to market expectations due to interest rates or due to own credit risk. Analysis should be combined with the evolution of market interest rates	Any	F 16.03	060-080	010	F 16.05	040-060	010	F 01.02	010, 070	010		
FND 27	Average interest expense of debt securities issued at amortised cost	Interest expenses of debt securities issued at amortised cost / Debt	Quarterly	This indicator can be provided as a proxy of the cost of funding via debt	[0,1]	F 16.01	230	020	F 01.02	130	010					



		securities issued at amortised cost (A/B)		securities for the reporting institution.														
FND 28	Covered bonds to total liabilities	Covered bonds at cost and at fair value / Total liabilities (A/B)	Quarterly	It quantifies the importance of this source of secured funding in relation to the financial liabilities of the institution.	[0,1]	F 08.01	390	010, 020, 030	F 01.02	300	010							
FND 29	Asset-backed securities to total liabilities	Asset-backed securities at cost and at fair value / Total liabilities (A/B)	Quarterly	It quantifies the importance of this source of secured funding in relation to the financial liabilities of the institution.	[0,1]	F 08.01	380	010, 020, 030	F 01.02	300	010							
FND 30	Convertible compound financial instruments to total liabilities	Convertible compound financial instruments at cost and at fair value/ Total liabilities (A/B)	Quarterly	It quantifies the importance of this source of funding in relation to the financial liabilities of the institution.	[0,1]	F 08.01	420	010, 020, 030	F 01.02	300	010							
FND 31	Total liabilities in the accounting and regulatory scope of consolidation	Total liabilities under the accounting scope of consolidation / Total liabilities under the regulatory scope of consolidation (A/B)	Quarterly	The indicator compares the amount of total liabilities in both scopes of consolidation in order to provide a rough proxy of the funding from unconsolidated entities (insurers, among others) in the regulatory framework.	Greater than (and close to) 1	F 17.03	250	010	F 01.02	300	010							
FND 32	Loan-to- deposit ratio for households and non- financial corporations	Total loans and advances to non- financial corporations and households (A) / Total deposits to non-financial corporations and households (B)	Quarterly	It considers only the loan granting and deposit taking activities of banks with the real economy (that is to say, households and non-financial corporations).	Greater or equal to 0	F 05.00	080	050, 060	F 08.01	260, 310	010, 020, 030							
FND 33	Asset encumbrance ratio	Total encumbered assets and collateral / Total assets and collateral (A/B+C)	Quarterly	This is the ratio of the level of encumbrance (as included in the instructions) to the asset encumbrance reporting templates.	[0,1]	F 32.01	010, 130	010	F 32.01	010	010, 060	F 32.01	130	010, 040	F 32.01		13 0	010, 040
FND 34	Average interest expense of deposits at amortised cost	Interest expenses of deposits at amortised cost / Deposits at amortised cost (A/B)	Quarterly	This indicator can be provided as a proxy of the cost of funding via deposits for the reporting institution.	[0,1]	F 16.01	160	020	F 01.02	120	010							
III. AS	SET QUALIT		1	I 0-2 %	T				T	<u> </u>	T					Т	—	
AQT_1	Non- performing	Non- performing	Quarterly	Capacity of own funds to	[0,1]	F 18.00	330	060	F 18.00	330	150	C 01.00	010	010				



secu of im to p	ns and debt curities net mpairments prudential own funds	debt instruments (loans and debt securities) net of provisions / total own funds for solvency purposes ((A+B)/C)		absorb potential losses on NP assets											
AQT_2 per loans secution of implication 1	Non- lerforming ns and debt curities net mpairments o Tier one capital	Non- performing debt instruments (loans and debt securities) net of provisions / Tier one capital solvency purposes ((A+B))/C)	Quarterly	Capacity of own funds (tier 1 component) to absorb potential losses on NP assets	[0,1]; should be greater to AQT_1	F 18.00	330	060	F 18.00	330	150	C 01.00	015	010	
AQT_3.1 per loans sect total debt and I ad	Non- performing ns and debt ecurities to otal gross ot securities d loans and advances (NPE)	Non- performing debt securities and loans and advances / Total gross debt securities and loans and advances (A/B)	Quarterly	Allows an overview of credit risk (arising from debt securities and loans and advances)	[0,1]	F 18.00	330	060	F 18.00	330	010				
AQT_3.2 per loa	evel of non- erforming oans and advances	Non- performing loans and advances (A) / Total gross loans and advances (B)	Quarterly	It can help to detect high (or higher) risk concentration	[0,1]	F 18.00	070,250	060	F 18.00	070, 250	010				
AQT_3.2.1 per loa adva coui	evel of non- erforming oans and dvances by ounterparty sector - entral banks	Non- performing loans and advances / Total gross loans and advances (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]. Sum of [sectors] should be equal to 100%	F 18.00	080, 260	060	F 18.00	080, 260	010				
AQT_3.2.2 per loa adva couri	evel of non- performing oans and dvances by ounterparty sector - General overnments	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): non-performing debt securities [A] / total gross carrying amounts [B]	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]. Sum of [sectors] should be equal to 100%	F 18.00	090, 270	060	F 18.00	090, 270	010				
AQT_3.2.3 per loa adva cour secto	evel of non- lerforming loans and dvances by loanterparty ctor - Credit nstitutions	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): non-performing debt securities [A] / total gross carrying amounts [B]	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]. Sum of [sectors] should be equal to 100%	F 18.00	100, 280	060	F 18.00	100, 280	010				
	evel of non- erforming	For each sector (Central	Quarterly	Can help to detect high (or	[0,1]. Sum of [sectors] should be	F 18.00	110, 290	060	F 18.00	110, 290	010				



	loans and advances by counterparty sector - Other financial corporations	banks, general government, credit institutions, other financial corporations, non-financial corporations, households): non-performing debt securities [A] / total gross carrying amounts [B]		higher) risk concentration among categories (sectors)	equal to 100%									
AQT_3.2.5	Level of non- performing loans and advances by counterparty sector - Non- financial corporations	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): non-performing debt securities [A] / total gross carrying amounts [B]	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]. Sum of [sectors] should be equal to 100%	F 18.00	120, 300	060	F 18.00	120, 300	010			
AQT_3.3.1	Level of non- performing debt securities by counterparty sector - Central banks	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): non-performing debt securities [A] / total gross carrying amounts [B]	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors))	[0,1]. Sum of [sectors] should be equal to 100%	F 18.00	020, 200	060	F 18.00	020, 200	010			
AQT_3.3.2	Level of non- performing debt securities by counterparty sector - General governments	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): non-performing debt securities [A] / total gross carrying amounts [B]	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]. Sum of [sectors] should be equal to 100%	F 18.00	030, 210	060	F 18.00	030, 210	010			
AQT_3.3.3	Level of non- performing debt securities by counterparty sector - Credit institutions	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): non-performing debt securities [A] / total gross carrying amounts [B]	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]. Sum of [sectors] should be equal to 100%	F 18.00	040, 220	060	F 18.00	040, 220	010			



AQT_3.3.4	Level of non- performing debt securities by counterparty sector - Other financial corporations	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): non-performing debt securities [A] / total gross carrying amounts [B]	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]. Sum of [sectors] should be equal to 100%	F 18.00	050, 230	060	F 18.00	050, 230	010				
AQT_3.3.5	Level of non- performing debt securities by counterparty sector - Non- financial corporations	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations households): non-performing debt securities [A] / total gross carrying amounts [B]	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]. Sum of [sectors] should be equal to 100%	F 18.00	060, 240	060	F 18.00	060, 240	010				
AQT_4.1	Level of non- performing debt instruments by counterparty sector - Central banks	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): non-performing debt instruments [A] / total gross carrying amounts [B]	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]. Sum of [sectors] should be equal to 100%	F 18.00	020, 080, 200, 260	060	F 18.00	020, 080, 200, 260	010				
AQT_4.2	Level of non- performing debt instruments by counterparty sector - General governments	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): non-performing debt instruments [A] / total gross carrying amounts [B]	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]. Sum of [sectors] should be equal to 100%	F 18.00	030, 090, 210, 270	060	F 18.00	030, 090, 210, 270	010				
AQT_4.3	Level of non- performing debt instruments by counterparty sector - Credit institutions	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): non-performing debt	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]. Sum of [sectors] should be equal to 100%	F 18.00	040, 100, 220, 280	060	F 18.00	040, 100, 220, 280	010				



														WWW	
		instruments [A] / total gross carrying amounts [B]													
AQT_4.4	Level of non- performing debt instruments by counterparty sector - Other financial corporations	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): non-performing debt instruments [A] / total gross carrying amounts [B]	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]. Sum of [sectors] should be equal to 100%	F 18.00	050, 110, 230, 290	060	F 18.00	050, 110, 230, 290	010				
AQT_4.5	Level of non- performing debt instruments by counterparty sector - Non- financial corporations	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): non-performing debt instruments [A] / total gross carrying amounts [B]	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]. Sum of [sectors] should be equal to 100%	F 18.00	060, 120, 240, 300	060	F 18.00	060, 120, 240, 300	010				
AQT_4.6	Level of non- performing debt instruments by counterparty sector - Households	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): non-performing debt instruments [A] / total gross carrying amounts [B]	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]. Sum of [sectors] should be equal to 100%	F 18.00	150, 310	060	F 18.00	150, 310	010				
AQT_5.1	Non performing debt securities and loans by country (residency counterparty) - Central banks	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households) and country/group of country: NPL&DS amount / total gross carrying amount (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors) and countries (group of countries).	[0,1]	F 20.04	090+150	025	F 20.04	080+140	010				



AQT_5.2	Non performing debt securities and loans by country (residency counterparty) - General governments	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households) and country/group of country: NPL&DS amount / total gross carrying amount (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors) and countries (group of countries).	[0,1]	F 20.04	100,160	025	F 20.04	080,140	010				
AQT_5.3	Non performing debt securities and loans by country (residency counterparty) - Credit institutions	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households) and country/group of country: NPL&DS amount / total gross carrying amount (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors) and countries (group of countries).	[0,1]	F 20.04	110,170	025	F 20.04	080,140	010				
AQT_5.4	Non performing debt securities and loans by country (residency counterparty) - Other financial corporations	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households) and country/group of country: NPL&DS amount / total gross carrying amount (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors) and countries (group of countries).	[0,1]	F 20.04	120,180	025	F 20.04	080,140	010				
AQT_5.5	Non performing debt securities and loans by country (residency counterparty) - Non-financial corporations	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households) and country/group of country: NPL&DS amount / total gross carrying amount (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors) and countries (group of countries).	[0,1]	F 20.04	130,190	025	F 20.04	080,140	010				
AQT_5.6	Non performing debt securities and loans by country (residency counterparty) - Households	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households) and	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors) and countries (group of countries).	[0,1]	F 20.04	220	025	F 20.04	080,140	010				



		country/group of country: NPL&DS amount / total gross carrying amount (A/B)													
AQT_6.1	Impaired assets by type - Equity instruments	For each type (equity instruments, debt securities, loans and advances): amount of impaired assets / total amount of impaired assets (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]; total amount of 3 ratios should be equal to 100%.	F 07.00	010	070	F 07.00	190	070				
AQT_6.2	Impaired assets by type - Debt securities	For each type (equity instruments, debt securities, loans and advances): amount of impaired assets / total amount of impaired assets (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]; total amount of 3 ratios should be equal to 100%.	F 07.00	060	070	F 07.00	190	070				
AQT_6.3	Impaired assets by type - Loans and advances	For each type (equity instruments, debt securities, loans and advances): amount of impaired assets / total amount of impaired assets (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]; total amount of 3 ratios should be equal to 100%.	F 07.00	120	070	F 07.00	190	070				
AQT_7.1	Impaired equity instruments by sector - Credit institutions	For each equity instrument (out of 3): amount of impaired assets / total amount of impaired assets (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]; total amount of 3 ratios should be equal to 100%.	F 07.00	030	070	F 07.00	010	070				
AQT_7.2	Impaired equity instruments by sector - Other financial corporations	For each equity instrument (out of 3): amount of impaired assets / total amount of impaired assets (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]; total amount of 3 ratios should be equal to 100%.	F 07.00	040	070	F 07.00	010	070				
AQT_7.3	Impaired equity instruments by sector - Nonfinancial corporations	For each equity instrument (out of 3): amount of impaired assets / total amount of impaired assets (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]; total amount of 3 ratios should be equal to 100%.	F 07.00	050	070	F 07.00	010	070				
AQT_8.1	Impaired debt securities by sector - Central banks	For each sector (out of 5): amount of impaired assets / total amount of impaired assets (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]; total amount of 5 ratios should be equal to 100%.	F 07.00	070	070	F 07.00	060	070				



AQT_8.2	Impaired debt securities by sector - General governments	For each sector (out of 5): amount of impaired assets / total amount of impaired assets (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]; total amount of 5 ratios should be equal to 100%.	F 07.00	080	070	F 07.00	060	070				
AQT_8.3	Impaired debt securities by sector - Credit institutions	For each sector (out of 5): amount of impaired assets / total amount of impaired assets (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]; total amount of 5 ratios should be equal to 100%.	F 07.00	090	070	F 07.00	060	070				
AQT_8.4	Impaired debt securities by sector - Other financial corporations	For each sector (out of 5): amount of impaired assets / total amount of impaired assets (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]; total amount of 5 ratios should be equal to 100%.	F 07.00	100	070	F 07.00	060	070				
AQT_8.5	Impaired debt securities by sector - Non- financial corporations	For each sector (out of 5): amount of impaired assets / total amount of impaired assets (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]; total amount of 5 ratios should be equal to 100%.	F 07.00	110	070	F 07.00	060	070				
AQT_9.1	Impaired loans and advances by sector - Central banks	For each sector (out of 6): amount of impaired assets / total amount of impaired assets (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]; total amount of 6 ratios should be equal to 100%.	F 07.00	130	070	F 07.00	120	070				
AQT_9.2	Impaired loans and advances by sector - General governments	For each sector (out of 6): amount of impaired assets / total amount of impaired assets (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]; total amount of 6 ratios should be equal to 100%.	F 07.00	140	070	F 07.00	120	070				
AQT_9.3	Impaired loans and advances by sector - Credit institutions	For each sector (out of 6): amount of impaired assets / total amount of impaired assets (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]; total amount of 6 ratios should be equal to 100%.	F 07.00	150	070	F 07.00	120	070				
AQT_9.4	Impaired loans and advances by sector - Other financial corporations	For each sector (out of 6): amount of impaired assets / total amount of impaired assets (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]; total amount of 6 ratios should be equal to 100%.	F 07.00	160	070	F 07.00	120	070				
AQT_9.5	Impaired loans and advances by sector - Non-financial corporations	For each sector (out of 6): amount of impaired assets / total amount of impaired assets (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]; total amount of 6 ratios should be equal to 100%.	F 07.00	170	070	F 07.00	120	070				
AQT_9.6	Impaired loans and advances by sector - Households	For each sector (out of 6): amount of impaired assets / total amount of impaired assets (A/B)	Quarterly	Can help to detect high (or higher) risk concentration among categories (sectors)	[0,1]; total amount of 6 ratios should be equal to 100%.	F 07.00	180	070	F 07.00	120	070				
AQT_10.1	Accumulated impairment and accumulated	For each type of asset (out of 2) and country/group	Quarterly	Gives information on the importance of impairment	[0,1]	F 20.04	080	030	F 20.04	080	010				



																		WWW	WIIIII/SIS	
	change in fair value due to credit risk of debt instruments by country - Debt securities	of country: Accumulated impairment / gross carrying amount (A/B)		among countries (groups of countries).																
AQT_10.2	Accumulated impairment and accumulated change in fair value due to credit risk of debt instruments by country - Loans and advances	For each type of asset (out of 2) and country/group of country: Accumulated impairment / gross carrying amount (A/B)	Quarterly	Gives information on the importance of impairment among countries (groups of countries).	[0,1]	F 20.04		140	030	F 20.04		140	010							
AQT_11	Share of exposures in default	Formula given here is for total exposures: [Exposures in default SA [A] + exposures in default IRB [B]] / total original exposure value (SA+IRB) [C+D]	Quarterly	Gives information on the relative importance of defaullted exposures among classes, allows comparisons between classes and banks	% positive values (expected to stay within 'normal' ranges, for example +/- 5%, difficult to assess, must be evaluated on a class-by-class basis)	C 09.01		170	020	C 09.02		150	030	C 09.01		170	010	C 09.02		15 0 010
AQT_12	Value adjustments and provisions compared to original exposure	(Value adjustments and provisions (SA+IRB) [A+B]) / (original exposure (SA+IRB) [C+D])	Quarterly	Gives broader information on the weight of total adjustments (not only provisions) among defaulted exposures	[0,1]	C 07.00	s001 (Total)	010	030	C 08.01	s001 (Total with own estimat es of LGD and/or convers ion factors), s002 (Total without own estimat es of LGD or convers ion factors)	010	290	C 07.00	s001 (Total)	010	010	C 08.01	s001 (Total with own estimat es of LGD and/or convers ion factors), s002 (Total without own estimat es of LGD or convers ion factors)	01 0 020
AQT_13	Risk Weight ratio (credit risk)	(RW exposure (SA+IRB) [A+B])/ (exposure value (SA+IRB) [C+D])	Quarterly	Gives information on the average level of credit risk carried by total assets (SA + IRB)	[0,1]. In some rare cases, depending on types of assets, RW ratio could be > to 100%.	C 07.00	s001	010	220	C 08.01	s001, s002	010	260	C 07.00	s001	010	200	C 08.01	s001, s002	01 110
AQT_14	Post-CRM exposure to original exposure	(exposure value (SA+IRB) [A+B]) / (original exposure (SA+IRB) [C+D])	Quarterly	Gives information on the dependency from collateral (SA+IRB)	[0,1]	C 07.00	s001	010	200	C 08.01	s001, s002	010	110	C 07.00	s001	010	010	C 08.01	s001, s002	01 020
AQT_15	EL amount compared to original exposure	EL amount [A] / original exposure [B]	Quarterly	Gives information on the potential losses on assets; can be compared to actual losses / provisions, but only for IRB exposures	[0,1]	C 08.01	s001, s002	010	280	C 08.01	s001, s002	010	020							
AQT_16.1	Share of defaulted exposures by sector and country - Central governments	For each geographical and counterparty breakdown: exposures in default	Quarterly	Allows comparisons between default levels of bank's assets according to	[0,1]	C 09.01		010,020,030,040,050	020	C 09.02		010	030	C 09.01		010,020,030,04,0 50	010	C 09.02		01 010



	or central banks	(SA+IRB) [A +B] / Original exposure (SA+IRB) [C+D]		economic sectors and countries of exposure													
AQT_16.2	Share of defaulted exposures by sector and country - Institutions	For each geographical and counterparty breakdown: exposures in default (SA+IRB) [A +B] / Original exposure (SA+IRB) [C+D]	Quarterly	Allows comparisons between default levels of bank's assets according to economic sectors and countries of exposure	[0,1]	C 09.01	060	020	C 09.02	020	030	C 09.01	060	010	C 09.02	02	010
AQT_16.3	Share of defaulted exposures by sector and country - Corporates	For each geographical and counterparty breakdown: exposures in default (SA+IRB) [A+B] / Original exposure (SA+IRB) [C+D]	Quarterly	Allows comparisons between default levels of bank's assets according to economic sectors and countries of exposure	[0,1]	C 09.01	070	020	C 09.02	030	030	C 09.01	070	010	C 09.02	03 0	010
AQT_16.4	Share of defaulted exposures by sector and country - Retail	For each geographical and counterparty breakdown: exposures in default (SA+IRB) [A+B] / Original exposure (SA+IRB) [C+D]	Quarterly	Allows comparisons between default levels of bank's assets according to economic sectors and countries of exposure	[0,1]	C 09.01	080	020	C 09.02	060	030	C 09.01	080	010	C 09.02	60	010
AQT_17.1	Share of observed new amounts of defaults for the period (or increase of defaults for the period) by sector and countries - Central banks and central governments	[for total exposures] : observed new defaults for the period [SA+IRB] [A] / exposures in default at the beginning of period [SA+IRB] [B-A]	Quarterly	Gives information on the level (%) of increase/decre ase of defaulted assets in a given period of time; allows comparisons between counterparties and/or countries	[0,1]	C 09.01, C 09.02	For SA: 'Sum of (010, 020) For IRB: Sum of (010) (row 'total exposures' unavailable)	040	C 09.01 C 09.02	For SA: 'Sum of (010, 020) For IRB: Sum of (010) (row 'total exposures' unavailable)	For SA and IRB exposure, respective ly: 020; 030						
AQT_17.2	Share of observed new amounts of defaults for the period (or increase of defaults for the period) by sector and countries - Institutions	[for total exposures] : observed new defaults for the period [SA+IRB] [A] / exposures in default at the beginning of period [SA+IRB] [B-A]	Quarterly	Gives information on the level (%) of increase/decre ase of defaulted assets in a given period of time; allows comparisons between counterparties and/or countries	[0,1]	C 09.01 C 09.02	For SA: 'Sum of (030+040+050+060+120) For IRB: Sum of (020) (row 'total exposures' unavailable)	040	C 09.01 C 09.02	For SA: 'Sum of (030+040+050+06 0+120) For IRB: Sum of (020) (row 'total exposures' unavailable)	For SA and IRB exposure, respective ly: 020; 030						
AQT_17.3	Share of observed new amounts of defaults for the period (or increase of defaults for the period) by sector and countries - Corporates	[for total exposures]: observed new defaults for the period [SA+IRB] [A] / exposures in default at the beginning of period [SA+IRB] [B-A]	Quarterly	Gives information on the level (%) of increase/decre ase of defaulted assets in a given period of time; allows comparisons between counterparties	[0,1]	C 09.01 C 09.02	For SA: 'Sum of (070+090+110+130+140) For IRB: Sum of (030) (row 'total exposures' unavailable)	040	C 09.01 C 09.02	For SA: 'Sum of (070+090+110+13 0+140) For IRB: Sum of (030) (row 'total exposures' unavailable)	For SA and IRB exposure, respective ly: 020; 030						



				and/or countries												
AQT_17.4	Share of observed new amounts of defaults for the period (or increase of defaults for the period) by sector and countries - Retail	[for total exposures]: observed new defaults for the period [SA+IRB] [A] / exposures in default at the beginning of period [SA+IRB] [B-A]	Quarterly	Gives information on the level (%) of increase/decre ase of defaulted assets in a given period of time; allows comparisons between counterparties and/or countries	[0,1]	C 09.01 C 09.02	For SA: 'Sum of (080) For IRB: Sum of (060) (row 'total exposures' unavailable)	040	C 09.01 C 09.02	For SA: 'Sum of (080) For IRB: Sum of (060) (row 'total exposures' unavailable)	For SA and IRB exposure, respective ly: 020; 030					
AQT_17.5	Share of observed new amounts of defaults for the period (or increase of defaults for the period) by sector and countries - Equity	[for total exposures]: observed new defaults for the period [SA+IRB] [A] / exposures in default at the beginning of period [SA+IRB] [B-A]	Quarterly	Gives information on the level (%) of increase/decre ase of defaulted assets in a given period of time; allows comparisons between counterparties and/or countries	[0,1]	C 09.01 C 09.02	For SA: 'Sum of (150) For IRB: Sum of (140) (row 'total exposures' unavailable)	040	C 09.01 C 09.02	For SA: 'Sum of (150) For IRB: Sum of (140) (row 'total exposures' unavailable)	For SA and IRB exposure, respective ly: 020; 030					
AQT_17.6	Share of observed new amounts of defaults for the period (or increase of defaults for the period) by sector and countries - Other noncredit obligation assets	[for total exposures]: observed new defaults for the period [SA+IRB] [A] / exposures in default at the beginning of period [SA+IRB] [B-A]	Quarterly	Gives information on the level (%) of increase/decre ase of defaulted assets in a given period of time; allows comparisons between counterparties and/or countries	[0,1]	C 09.01 C 09.02	For SA: 'Sum of (160) For IRB	040	C 09.01 C 09.02	For SA: 'Sum of (160) For IRB	For SA and IRB exposure, respective ly: 020; 030					
AQT_18	Share of resecuritisatio ns	Re- securitisation exposures [SA+IRB] [A+B] / total securitised exposure value [SA+IRB] [C+D]	Quarterly	Share of resecuritisation exposures among securitisation exposures: gives an overview of the profile of securitisation exposures	[0,1]	C 12.00	020	190	C 13.00	020	170	C 12.00	010	190	C 13.00	01 0 170
AQT_19	Share of impaired and past due >90 days collateralised loans	Gross impaired and past due collateralised loans [A] / Gross collateralised loans [B- C]	Quarterly	Gives information on the quality of collateralised loans	[0,1]	F 07.00	270,280	040, 050,060, 070,080,0 90	F 05.00	090,100	020,030, 040,050,0 60	F 07.00	270,280	080,090		
AQT_20	Quality of Off- Balance Sheet exposures (share of NP OBS exposures)	OBS NP exposures [A] / total OBS exposures [B]	Quarterly	Gives information on the quality of OBS exposures; completes data on BS exposures.	[0,1]	F 09.01 (amend ed)	021,101,181	010	F 09.01 (amend ed)	010,090,170	010					



AQT_21	Net allowances for credit losses : debt securities and loans and advances	Net allowances for credit losses [closing balance - opening balance] [A] / Gross Carrying amounts [B-C]	Quarterly	Gives information on the development of allowances for credit losses depending on type of counterparty (closing balance - opening balance)	[0,1] (expected to stay within 'normal' ranges, for example +/- 10%)	F 12.00	030,090,170,230,310,320	070 - 010	F 01.01	160,170,190,200, 220,230	010	F 07.00	060, 120	080, 090, 100	
AQT_22.1	Share of fair value level for assets - Level 1	[level of FV hierarchy for assets] [A] / [sum of levels 1 to 3 for assets] [B]	Quarterly	Gives information on the quality of own assets evaluation (and potential non-detected defaults/losses). Could be later calculated for each asset category	[0,1]; total amount of 3 ratios should be equal to 100%.	F 14.00	010 + 060 + 100 + 140	010	F 14.00	010 + 060 + 100 + 140	010; 020; 030				
AQT_22.2	Share of fair value level for assets - Level 2	[level of FV hierarchy for assets] [A] / [sum of levels 1 to 3 for assets] [B]	Quarterly	Gives information on the quality of own assets evaluation (and potential non-detected defaults/losses). Could be later calculated for each asset category	[0,1]; total amount of 3 ratios should be equal to 100%.	F 14.00	010 + 060 + 100 + 140	020	F 14.00	010 + 060 + 100 + 140	010; 020; 030				
AQT_22.3	Share of fair value level for assets - Level 3	[level of FV hierarchy for assets] [A] / [sum of levels 1 to 3 for assets] [B]	Quarterly	Gives information on the quality of own assets evaluation (and potential non-detected defaults/losses). Could be later calculated for each asset category	[0,1]; total amount of 3 ratios should be equal to 100%.	F 14.00	010 + 060 + 100 + 140	030	F 14.00	010 + 060 + 100 + 140	010; 020; 030				
AQT_23	Share of large exposures in default	Defaulted original exposures [A] / total large exposures (original exposures) [B]	Quarterly	Gives information on the quality of large exposures; can be compared to total exposures	% positive values (expected to stay within 'normal' ranges)	C 28.00	Sum of counterparties (not fixed rows)	050	C 28.00	Sum of counterparties (not fixed rows)	040				
AQT_24.1	Ratio of forborne assets by country - Debt securities	For each type of asset (out of 2) and country/group of country: Forborne assets [A] / Gross carrying amount [B]	Quarterly	Allows a broader overview on asset quality (forbearance) depending on country.	[0,1]	F 20.04	080	022	F 20.04	080	010				
AQT_24.2	Ratio of forborne assets by country - Loans and advances	For each type of asset (out of 2) and country/group of country: Forborne assets [A] / Gross carrying amount [B]	Quarterly	Allows a broader overview on asset quality (forbearance) depending on country.	[0,1]	F 20.04	140	022	F 20.04	140	010				
AQT_25	Past due (>90 days) but not impaired loans to total loans and advances	Past due loans > 90 days (A) / Total loans and advances subject to impairment (B)	Quarterly	Ratio of loans which are more than 90 days past due, but not impaired, to total loans and	[0,1]	F 07.00	120	040, 050, 060	F 01.01	170, 200, 230	010				



				advances												
AQT_26	Impaired and past due loans to total loans subject to impairment	Impaired and past due loans (A+B) / Total loans and advances subject to impairment (C-D) [gross amounts]	Quarterly	Gives a broader view, close to the non-performing concept, on the quality of loans.	[0,1]	F 07.00	120	010, 020, 030, 040, 050, 060	F 07.00	120	070, 080, 090	F 01.01	170, 200, 230	010	F 07.00	12 080, 0 090
AQT_27	Net allowances by type of instrument : loans and advances	Net allowances on loans and advances for the period / Net allowances on loans and advances for the last period (Q-4 if calculated from year to year -sliding-) (A/B)	Quarterly	Gives information on the development of allowances on loans and advances	% positive, null or negative values (expected to stay within 'normal' ranges, for example +/- 10%)	F 12.00	090+230+320	070-010								
AQT_28	Past due (>90 days) but not impaired loans and debt securities to total loans and debt securities	Past due loans and debt securities > 90 days (A+B) / Total debt securities and loans and advances subject to impairment (C+D)	Quarterly	Ratio of loans and debt securities which are more than 90 days past due, but not impaired, to total loans and advances and debt securities	[0,1]	F 07.00	120	040, 050, 060	F 07.00	060	040, 050, 060	F 01.01	160, 190, 220	010	F 01.01	17 0, 20 0, 0, 23 0
AQT_29.1	Coverage ratio (loans and debt securities	Specific allowances for loans and debt securities (A+B) / Total gross impaired loans and debt securities (C+D)	Quarterly	Indicates how much covered by impairments allowances the loans and debt securities are.	[0,1]	F 07.00	120	080, 090	F 07.00	060	080, 090	F 07.00	120	070, 080, 090	F 07.00	06 070, 080, 090
AQT_29.2	Coverage ratio (impaired loans)	Specific allowances for loans (A) / Total gross impaired loans (B)	Quarterly	Indicates how much covered by impairments allowances the loans are.	[0,1]	F 07.00	120	080, 090	F 07.00	120	070, 080, 090					
AQT_29.3	Coverage ratio of impaired debt instruments	Specific allowances for debt securities (A) / Total gross impaired debt securities (B)	Quarterly	Indicates how much covered by impairments allowances the loans and debt securities are.	[0,1]	F 07.00	60	080, 090	F 07.00	60	070, 080, 090					
AQT_30	Total coverage ratio for debt securities and loans subject to impairment (incl. specific and collective allowances)	Specific and collective allowances for loans and debt securities (A+B) / Total gross impaired loans and debt securities (C+D)	Quarterly	Indicates how much covered by total impairments allowances (collective and specific) the loans and debt securities are.	[0,1]; Should be greater or equal to AQT_31	F 07.00	120	080, 090, 100	F 07.00	060	080, 090, 100	F 07.00	120	070, 080, 090	F 07.00	06 0 070, 080, 090
AQT_31	Impaired financial assets to total assets	Impaired financial assets (A) / Total assets (B)	Quarterly	Indicates the weight of impaired financial assets within total assets.	[0,1]	F 07.00	190	070	F 01.01	380	010					
AQT_32	Impaired debt instruments to total debt instruments	Impaired debt instruments (A) / Total debt instruments subject to impairment (B)	Quarterly	Indicates how much covered by impairments allowances the loans and debt securities are.	[0,1]	F 07.00	060	070	F 01.01	160, 190, 220	010					



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AQT_33	Accumulated impairments on financial assets to total (gross) assets	Accumulated impairments on financial assets (- 1)*(A)/ Total gross assets (B-C)	Quarterly	Indicates how present and past impairment allowances cover impaired assets.	[0,1]	F 07.00	190	080, 090, 100	F 01.01	380	010	F 07.00	190	080, 090, 100			
AQT_34	Impairments on financial assets to total operating income	Impairments or reversals of impairments on financial assets not measured at fair value (A) / Total net operating income (B)	Quarterly	Shows the proportion of operating income that has been 'devoted' to cover net impairments for the current period.	% positive, null or negative values expected (both numerator and denominator could be positive or negative). "Normal values" expected within 0-100% range.	F 02.00	460	010	F 02.00	355	010						
AQT_35	Annual growth rate of impairments on financial assets	[[Impairments or reversals of impairments on financial assets not measured at fair value (A)q / Impairments or reversals of impairments on financial assets not measured at fair value (A)q-4]-1] * 100]	Quarterly	Shows the growth rate of impairments on financial assets since the 4 past quarters.	% positive, null or negative values expected (both numerator and denominator could be positive or negative)	F 02.00	460	010									
AQT_36	Annual growth rate of past due (>90 days) loans and debt instruments and total gross impaired loans and debt instruments	[[[Past due > 90 days loans and debt instruments and total gross impaired loans and debt instruments (A)q / Past due > 90 days loans and debt instruments and total gross impaired loans and debt instruments (A)q-4] -1] * 100]	Quarterly	Shows the growth rate of past due and impaired assets since the 4 past quarters.	% positive, null or negative values expected	F 07.00	060, 120	040, 050, 060, 070, 080, 090									
AQT_37	Forborne non- performing exposures to total forborne exposures	Gross carrying amount of non-performing exposures with forbearance measures / Gross carrying amount of exposures with forbearance measures (A/B)	Quarterly	Allows disclosure of information on the quality of forborne exposures.	[0,1]	F 19.00	330	060	F 19.00	330	010						
AQT_38.1	Forborne exposures to non-financial corporations	Gross carrying amount of exposures with forbearance measures, non-financial corporations / Gross carrying amount of exposures with forbearance measures (A/B)	Quarterly	This indicator gives the weight of non-financial corporations in the total forborne loans (Forbearance is expected to happen more often with non-financial corporations and households as counterparties)	[0,1]	F 19.00	060, 120, 240, 300	010	F 19.00	330	010						
AQT_38.2	Forborne exposures to households	Gross carrying amount of exposures with forbeareance measures,	Quarterly	This indicator gives the weight of households in the total	[0,1]	F 19.00	150, 310	010	F 19.00	330	010						



		households / Gross carrying amount of exposures with forbearance measures (A/B)		forborne loans (Forbearance is expected to happen more often with non- financial corporations and households as counterparties)									
AQT_39	Proportion of performing forborne exposures under probation	Gross carrying amount of performing forborne exposures / Gross carrying amount of exposures with forbearance measures (A/B)	Quarterly	Shows the proportion of exposures which are expected to leave the forborne category in the short-term.	[0,1]. (AQT_40 + AQT_38.2) should be equal to 100%	F 19.00	330	050	F 19.00	330 010			
AQT_40	Coverage ratio for unimpaired loans and debt securities	Accumulated impairment, accumulated changes in fair value due to credit risk and provisions [performing exposures] / Gross carrying amount [performing exposures] (A/B)	Quarterly	For those unimpaired assets, it shows the amount of allowances available to cover unexpected credit events.	[0,1]	F 18.00	330	140	F 18.00	330 020			
AQT_41.1. 1	Coverage ratio of non- performing debt instruments - Central banks	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): Specific allowances for debt instruments (A) / Total gross non-performing debt instruments unites (B)	Quarterly	Indicates how much covered by non- performing allowances the loans and advances and non- performing debt securities are per sector	[0,1]	F 18.00	020, 080, 200, 260	150	F 18.00	020, 080, 200, 260 060			
AQT_41.1. 2	Coverage ratio of non- performing debt instruments - General governments	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): Specific allowances for debt instruments (A) / Total gross non-performing debt instruments unites (B)	Quarterly	Indicates how much covered by non- performing allowances the loans and advances and non- performing debt securities are per sector	[0,1]	F 18.00	030, 090, 210, 270	150	F 18.00	030, 090, 210, 270 060			
AQT_41.1.	Coverage ratio of non- performing debt instruments - Credit	For each sector (Central banks, general government, credit institutions,	Quarterly	Indicates how much covered by non-performing allowances the loans and	[0,1]	F 18.00	040, 100, 220, 280	150	F 18.00	040, 100, 220, 280 060			



	institutions	other financial corporations, non-financial corporations, households): Specific allowances for debt instruments (A) / Total gross nonperforming debt instruments unites (B)		advances and non- performing debt securities are per sector										
AQT_41.1. 4	Coverage ratio of non- performing debt instruments - Other financial corporations	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): Specific allowances for debt instruments (A) / Total gross non-performing debt instruments unites (B)	Quarterly	Indicates how much covered by non- performing allowances the loans and advances and non- performing debt securities are per sector	[0,1]	F 18.00	050, 110, 230, 290	150	F 18.00	050, 110, 230, 290	060			
AQT_41.1.	Coverage ratio of non- performing debt instruments - Non-financial corporations	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): Specific allowances for debt instruments (A) / Total gross non-performing debt instruments unites (B)	Quarterly	Indicates how much covered by non-performing allowances the loans and advances and non-performing debt securities are per sector	[0,1]	F 18.00	060, 120, 240, 300	150	F 18.00	060, 120, 240, 300	060			
AQT_41.1.	Coverage ratio of non- performing debt instruments - Households	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): Specific allowances for debt instruments (A) / Total gross non-performing debt instruments unites (B)	Quarterly	Indicates how much covered by non- performing allowances the loans and advances and non- performing debt securities are per sector	[0,1]	F 18.00	150, 310	150	F 18.00	150, 310	060			
AQT_41.2.	Coverage ratio of non- performing loans and advances - Central banks	For each sector (Central banks, general government, credit institutions,	Quarterly	Indicates how much covered by non- performing allowances the loans and	[0,1]	F 18.00	080, 260	150	F 18.00	080, 260	060			



		other financial corporations, non-financial corporations, households): Specific allowances for loans and advances (A) / Total gross non-performing loans and advances (B)		advances are per sector											
AQT_41.2. 2	Coverage ratio of non- performing loans and advances - General governments	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): Specific allowances for loans and advances (A) / Total gross non-performing loans and advances (B)	Quarterly	Indicates how much covered by non- performing allowances the loans and advances are per sector	[0,1]	F 18.00	090, 270	150	F 18.00	090, 270	060				
AQT_41.2.	Coverage ratio of non- performing loans and advances - Credit institutions	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): Specific allowances for loans and advances (A) / Total gross non-performing loans and advances (B)	Quarterly	Indicates how much covered by non- performing allowances the loans and advances are per sector	[0,1]	F 18.00	100, 280	150	F 18.00	100, 280	060				
AQT_41.2. 4	Coverage ratio of non- performing loans and advances - Other financial corporations	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): Specific allowances for loans and advances (A) / Total gross non-performing loans and advances (B)	Quarterly	Indicates how much covered by non- performing allowances the loans and advances are per sector	[0,1]	F 18.00	110, 290	150	F 18.00	110, 290	060				
AQT_41.2. 5	Coverage ratio of non- performing loans and advances - Non-financial corporations	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations,	Quarterly	Indicates how much covered by non- performing allowances the loans and advances are per sector	[0,1]	F 18.00	120, 300	150	F 18.00	120, 300	060				



		households): Specific allowances for loans and advances (A) / Total gross non- performing loans and advances (B)													
AQT_41.3.	Coverage ratio of non- performing debt securities - Central banks	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): Specific allowances for debt securities (A) / Total gross non-performing debt securities (B)	Quarterly	Indicates how much covered by non- performing allowances the debt securities are per sector	[0,1]	F 18.00	020, 200	150	F 18.00	020, 200	060				
AQT_41.3.	Coverage ratio of non- performing debt securities - General governments	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): Specific allowances for debt securities (A) / Total gross non-performing debt securities (B)	Quarterly	Indicates how much covered by non- performing allowances the debt securities are per sector	[0,1]	F 18.00	030, 210	150	F 18.00	030, 210	060				
AQT_41.3. 3	Coverage ratio of non- performing debt securities - Credit institutions	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): Specific allowances for debt securities (A) / Total gross non-performing debt securities (B)	Quarterly	Indicates how much covered by non- performing allowances the debt securities are per sector	[0,1]	F 18.00	040, 220	150	F 18.00	040, 220	060				
AQT_41.3. 4	Coverage ratio of non- performing debt securities - Other financial corporations	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations households): Specific allowances for debt securities (A) / Total gross non-performing	Quarterly	Indicates how much covered by non- performing allowances the debt securities are per sector	[0,1]	F 18.00	050, 230	150	F 18.00	050, 230	060				



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		debt securities (B)													
AQT_41.3.	Coverage ratio of non- performing debt securities - Non-financial corporations	For each sector (Central banks, general government, credit institutions, other financial corporations, non-financial corporations, households): Specific allowances for debt securities (A) / Total gross non-performing debt securities (B)	Quarterly	Indicates how much covered by non- performing allowances the debt securities are per sector	[0,1]	F 18.00	060, 240	150	F 18.00	060, 240	060				
AQT_42.1.	Level of forbearance (gross amount) for debt instruments (FBE)- Central banks	Exposures with forbearance measures for debt instruments [A] / total corresponding instruments on BS [B]	Quarterly	Gives information on the forbearance policy of the bank; may be compared to the level of default itself.	[0,1]	F 19.00	020, 080, 200, 260	010	F 18.00	020, 080, 200, 260	010				
AQT_42.1.	Level of forbearance (gross amount) for debt instruments (FBE)- General governments	Exposures with forbearance measures for debt instruments [A] / total corresponding instruments on BS [B]	Quarterly	Gives information on the forbearance policy of the bank; may be compared to the level of default itself.	[0,1]	F 19.00	030, 090, 210, 270	010	F 18.00	030, 090, 210, 270	010				
AQT_42.1.	Level of forbearance (gross amount) for debt instruments (FBE)- Credit institutions	Exposures with forbearance measures for debt instruments [A] / total corresponding instruments on BS [B]	Quarterly	Gives information on the forbearance policy of the bank; may be compared to the level of default itself.	[0,1]	F 19.00	040, 100, 220, 280	010	F 18.00	040, 100, 220, 280	010				
AQT_42.1. 4	Level of forbearance (gross amount) for debt instruments (FBE)- Other financial corporations	Exposures with forbearance measures for debt instruments [A] / total corresponding instruments on BS [B]	Quarterly	Gives information on the forbearance policy of the bank; may be compared to the level of default itself.	[0,1]	F 19.00	050, 110, 230, 290	010	F 18.00	050, 110, 230, 290	010				
AQT_42.1.	Level of forbearance (gross amount) for debt instruments (FBE) - Nonfinancial corporations	Exposures with forbearance measures for debt instruments [A] / total corresponding instruments on BS [B]	Quarterly	Gives information on the forbearance policy of the bank; may be compared to the level of default itself.	[0,1]	F 19.00	060, 120, 240, 300	010	F 18.00	060, 120, 240, 300	010				
AQT_42.1. 6	Level of forbearance (gross amount) for debt instruments (FBE)-Households	Exposures with forbearance measures for debt instruments [A] / total corresponding instruments on BS [B]	Quarterly	Gives information on the forbearance policy of the bank; may be compared to the level of default itself.	[0,1]	F 19.00	150, 310	010	F 18.00	150, 310	010				



AQT_42.2. 1	Level of forbearance (gross amount) for loans and advances- Central banks	Exposures with forbearance measures for loans and advances [A] / total corresponding instruments on BS [B]	Quarterly	Gives information on the forbearance policy of the bank; may be compared to the level of default itself.	[0,1]	F 19.00	080, 260	010	F 18.00	080, 260	010				
AQT_42.2. 2	Level of forbearance (gross amount) for loans and advances- General governments	Exposures with forbearance measures for loans and advances [A] / total corresponding instruments on BS [B]	Quarterly	Gives information on the forbearance policy of the bank; may be compared to the level of default itself.	[0,1]	F 19.00	090, 270	010	F 18.00	090, 270	010				
AQT_42.2.	Level of forbearance (gross amount) for loans and advances- Credit institutions	Exposures with forbearance measures for loans and advances [A] / total corresponding instruments on BS [B]	Quarterly	Gives information on the forbearance policy of the bank; may be compared to the level of default itself.	[0,1]	F 19.00	100, 280	010	F 18.00	100, 280	010				
AQT_42.2. 4	Level of forbearance (gross amount) for loans and advances- Other financial corporations	Exposures with forbearance measures for loans and advances [A] / total corresponding instruments on BS [B]	Quarterly	Gives information on the forbearance policy of the bank; may be compared to the level of default itself.	[0,1]	F 19.00	110, 290	010	F 18.00	110, 290	010				
AQT_42.2. 5	Level of forbearance (gross amount) for loans and advances- Non-financial corporations	Exposures with forbearance measures for loans and advances [A] / total corresponding instruments on BS [B]	Quarterly	Gives information on the forbearance policy of the bank; may be compared to the level of default itself.	[0,1]	F 19.00	120, 300	010	F 18.00	120, 300	010				
AQT_42.3.	Level of forbearance (gross amount) for debt securities- Central banks	Exposures with forbearance measures for debt securities [A] / total corresponding instruments on BS [B]	Quarterly	bank; may be compared to the level of default itself.	[0,1]	F 19.00	020, 200	010	F 18.00	020, 200	010				
AQT_42.3. 2	Level of forbearance (gross amount) for debt securities- General governments	Exposures with forbearance measures for debt securities [A] / total corresponding instruments on BS [B]	Quarterly	Gives information on the forbearance policy of the bank; may be compared to the level of default itself.	[0,1]	F 19.00	030, 210	010	F 18.00	030, 210	010				
AQT_42.3.	Level of forbearance (gross amount) for debt securities- Credit institutions	Exposures with forbearance measures for debt securities [A] / total corresponding instruments on BS [B]	Quarterly	Gives information on the forbearance policy of the bank; may be compared to the level of default itself.	[0,1]	F 19.00	040, 220	010	F 18.00	040, 220	010				
AQT_42.3. 4	Level of forbearance (gross amount) for debt securities-Other financial	Exposures with forbearance measures for debt securities [A] / total corresponding	Quarterly	Gives information on the forbearance policy of the bank; may be compared to	[0,1]	F 19.00	050, 230	010	F 18.00	050, 230	010				



	corporations	instruments on BS [B]		the level of default itself.												
AQT_42.3.	Level of forbearance (gross amount) for debt securities- Non-financial corporations	Exposures with forbearance measures for debt securities [A] / total corresponding instruments on BS [B]	Quarterly	Gives information on the forbearance policy of the bank; may be compared to the level of default itself.	[0,1]	F 19.00	060, 240	010	F 18.00	060, 240	010					
AQT_43	% growth of defaulted exposures during the period	Formula given here is for total exposures: [Exposures in default SA [A] + exposures in default IRB [B]] (reporting quarter) / [Exposures in default SA [A] + exposures in default IRB [B]] (Q-4 reporting quarter)[A+B]	Quarterly	Gives information on the development (increase/decrease) of defaulted exposures, independently from their level	% positive, null or negative values (expected to stay within 'normal' ranges, for example +/- 10%)	C 09.01	170	020	C 09.02	150	030					
AQT_44	Variation of allowances	Total allowances on assets subject to impairment for the period / total allowances on assets subject to impairment for the last period (Q-4 if calculated from year to year -sliding-) (A/B)	Quarterly	Gives information on the development of adjustments on assets	% positive, null or negative values (expected to stay within 'normal' ranges, for example +/- 10%)	F 07.00	190	080+090+ 100								
AQT_45	Variation of write-offs of securities by type of instrument: equity instruments	Net write-offs on equity instruments for the period / Net write-offs on equity instruments for the last period (Q-4 if calculated from year to year -sliding-) (A/B)	Quarterly	Gives information on the development of write-offs on equity instruments	% positive, null or negative values (expected to stay within 'normal' ranges, for example +/- 10%)	F 12.00	010	090								
AQT_46	Net allowances by type of instrument : debt securities	Net allowances on debt securities for the period / Net allowances on debt securities for the last period (Q-4 if calculated from year to year -sliding-) (A/B)	Quarterly	Gives information on the development of allowances on debt securities	% positive, null or negative values (expected to stay within 'normal' ranges, for example +/- 10%)	F 12.00	030+170+310	070-010								
AQT_47.1	Level of performing forborne loans not under probation (of total loans) (all gross)	Performing exposures with forbearance measures [A] - of which: performing forborne exposures under probation [B] / Gross carrying amount of loans and advance [C]	Quarterly	Forborne loans, which are not and have not been non- performing (i.e. which are not under probation), as a share of total loans	[0,1]	F 19.00	070, 250	020	F 19.00	070, 250	050	F 18.00	070, 250	050		



AQT_47.2	Level of performing forborne loans under probation (of total loans) (all gross)	Loans and advances of which: performing forborne exposures under probation [A] / Gross carrying amount of loans and advance [B]	Quarterly	Forborne loans which are under probation (i.e. loans which were non- performing before, but which are back to the performing status now), as a share of total loans	[0,1]	F 19.00	070, 250	050	F 18.00	070, 250	010			
AQT_47.3	Level of non- performing forborne loans (of total loans) (all gross)	Non- performing exposures with forbearance measures [B] / Gross carrying amount of loans and advance [B]	Quarterly	Forborne loans, which are non- performing, as a share of total loans	[0,1]	F 19.00	070, 250	060	F 18.00	070, 250	010			
AQT_48.1	Non- performing loans and debt securities to total gross debt securities and loans and advances (NPE at amortised cost)	Total gross non- performing exposures at amortised cost (A) / Total gross debt securities and loans and advances at amortised cost (B)	Quarterly	Allows an overview of credit risk (arising from debt securities and loans and advances) for exposures measured at amortised cost	[0,1]	F 18.00	180	60	F 18.00	180	10			
AQT_48.2	Non- performing loans to total gross loans and advances (NPL at amortised cost)	Total gross non- performing loans and advances at amortised cost (A) / Total gross loans and advances at amortised cost (B)	Quarterly	Allows an overview of credit risk (arising from loans and advances) for exposures measured at amortised cost	[0,1]	F 18.00	070	60	F 18.00	070	10			
AQT_48.3	Non- performing debt securities to total gross debt securities (NPDS at amortised cost)	Total gross non- performing debt securities at amortised cost (A) / Total gross debt securities at amortised cost (B)	Quarterly	Allows an overview of credit risk (arising from debt securities) for exposures measured at amortised cost	[0,1]	F 18.00	010	60	F 18.00	010	10			
AQT_49.1	Non- performing loans and debt securities to total gross debt securities and loans and advances (NPE at fair value other than trading)	Total gross non- performing exposures at fair value (A) / Total gross debt securities and loans and advances at fair value (B)	Quarterly	Allows an overview of credit risk (arising from debt securities and loans and advances) for exposures measured at FV	[0,1]	F 18.00	320	60	F 18.00	320	10			
AQT_49.2	Non- performing loans to total gross loans and advances (NPL at fair value other than trading)	Total gross non- performing loans and advances at fair value (A) / Total gross loans and advances at fair value (B)	Quarterly	Allows an overview of credit risk (arising from loans and advances) for exposures measured at FV	[0,1]	F 18.00	250	60	F 18.00	250	10			
AQT_49.3	Non- performing debt securities to total gross debt securities (NPDS at fair value other	Total gross non- performing debt securities at fair value (A) / Total gross debt	Quarterly	Allows an overview of credit risk (arising from debt securities) for exposures	[0,1]	F 18.00	190	60	F 18.00	190	10			



	than trading)	securities at fair value (B)		measured at FV											
AQT_50.1	Coverage ratio of non- performing loans and debt securities (at amortised cost)	Total gross non- performing exposures at amortised cost (A) / Total gross non- performing exposures at amortised cost (B)	Quarterly	Indicates the coverage ratio of NPEs measured at amortised cost	[0,1]	F 18.00	180	150	F 18.00	180	60				
AQT_50.2	Coverage ratio of non- performing loans and advances (at amortised cost)	Total gross non- performing loans and advances at amortised cost (A) / Total gross non- performing loans and advances at amortised cost (B)	Quarterly	Indicates the coverage ratio of NPLs measured at amortised cost	[0,1]	F 18.00	070	150	F 18.00	070	60				
AQT_50.3	Coverage ratio of non-performing debt securities (at amortised cost)	Total gross non- performing debt securities at amortised cost (A) / Total gross non- performing debt securities at amortised cost (B)	Quarterly	Indicates the coverage ratio of debt securities measured at amortised cost	[0,1]	F 18.00	010	150	F 18.00	010	60				
AQT_51.1	Coverage ratio of non-performing loans and debt securities (at fair value other than trading)	Total gross non- performing exposures at fair value (A) / Total gross non- performing exposures at fair value (B)	Quarterly	Indicates the coverage ratio of NPEs measured at FV	[0,1]	F 18.00	320	150	F 18.00	320	60				
AQT_51.2	Coverage ratio of non-performing loans and advances (at fair value other than trading)	Total gross non- performing loans and advances at fair value (A) / Total gross non- performing loans and advances at fair value (B)	Quarterly	Indicates the coverage ratio of NPLs measured at FV	[0,1]	F 18.00	250	150	F 18.00	250	60				
AQT_51.3	Coverage ratio of non- performing debt securities (at fair value other than trading)	Total gross non- performing debt securities at fair value (A) / Total gross non- performing debt securities at fair value (B)	Quarterly	Indicates the coverage ratio of debt securities measured at FV	[0,1]	F 18.00	190	150	F 18.00	190	60				
AQT_52.1	Forborne loans and debt securities to total gross debt securities and loans and advances (FBE at amortised cost)	Exposures with forbearance measures for loans and advances and debt securities at amortised cost [A] / Total gross loans and advances and debt	Quarterly	Indication for asset quality: shows the ratio of forborne loans and advances and debt securities measured at amortised cost	[0,1]	F 19.00	180	10	F 18.00	180	10				



		securities at amortised cost (B)													
AQT_52.2	Forborne loans to total gross loans and advances (FBL at amortised cost)	Exposures with forbearance measures for loans and advances at amortised cost [A] / Total gross loans and advances at amortised cost (B)	Quarterly	Indication for asset quality: shows the ratio of forborne loans and advances measured at amortised cost	[0,1]	F 19.00	070	10	F 18.00	070	10				
AQT_52.3	Forborne debt securities to total gross debt securities (FBDS at amortised cost)	Exposures with forbearance measures for debt securities at amortised cost [A] / Total gross debt securities at amortised cost (B)	Quarterly	Indication for asset quality: shows the ratio of debt securities measured at amortised cost	[0,1]	F 19.00	010	10	F 18.00	010	10				
AQT_53.1	Forborne loans and debt securities to total gross debt securities and loans and advances (FBE at fair value other than trading)	Exposures with forbearance measures for loans and advances and debt securities at fair value [A] / Total gross loans and advances and debt securities at fair value (B)	Quarterly	Indication for asset quality: shows the ratio of forborne loans and advances and debt securities measured at FV	[0,1]	F 19.00	320	10	F 18.00	320	10				
AQT_53.2	Forborne loans to total gross loans and advances (FBL at fair value other than trading)	Exposures with forbearance measures for loans and advances at fair value [A] / Total gross loans and advances at fair value (B)	Quarterly	Indication for asset quality: shows the ratio of forborne loans and advances measured at FV	[0,1]	F 19.00	250	10	F 18.00	250	10				
AQT_53.3	Forborne debt securities to total gross debt securities (FBDS at fair value other than trading)	Exposures with forbearance measures for debt securities at fair value [A] / Total gross debt securities at fair value (B)	Quarterly	Indication for asset quality: shows the ratio of debt securities measured at FV	[0,1]	F 19.00	190	10	F 18.00	190	10				
IV. P	ROFITABILIT	Y RISK													
PFT 1	Staff expenses as % of total administrative expenses	Staff Expenses (A)/Administrat ive Expenses (B)	Quarterly	Indicates what share of administrative expenses can be attributed to staff expenses	[0,1]	F 02.00	370	010	F 02.00	360	010				
PFT 2	Staff expenses per total operating income	Staff Expenses (A) / Total operating income net (B)	Quarterly	Indicates how many euros of staff expenses are needed to earn one euro of total operating income	Greater than 0	F 02.00	370	010	F 02.00	355	010				
PFT 3	Administrative expenses per total operating income	Administrative expenses (A) / Total operating income net (B)	Quarterly	Indicates how many euros of administrative expenses are needed to earn	Greater than 0	F 02.00	360	010	F 02.00	355	010				



				one euro of total operating income											
PFT 4	Tax rate on continuing operations	Tax expenses or (-) income related to profit or loss from continuing operations (A)/ Profit or loss before tax from continuing operations (B)	Quarterly	Tax expenses or income from continuing operations		F 02.00	620	010	F 02.00	610	010				
PFT 5	Interest income from households	Interest income from loans and advances to households (A)/Interest Income (B)	Quarterly	Interest income earned by giving loans and advances to households as % of total interest income	[0,1]	F 16.01a	140	010	F 02.00	010	010				
PFT 6	Interest income from credit institutions	Interest income from debt securities and loans and advances to credit institutions (A+B)/Interest Income (C)	Quarterly	Interest income earned by debt securities and loans and advances to credit institutions as % of total interest income	[0,1]	F 16.01a	050	010	F 16.01a	110	010	F 02.00	010	010	
PFT 7	% of interest income earned domestically	Interest income earned in domestic activities (A)/Interest Income earned in domestic and non- domestic activities (A+B)	Quarterly	Indicates the domestic versus non-domestic interest income structure of banks	[0,1]	F 20.03	010	010	F 20.03	020	010				
PFT 8	% of interest expenses spent domestically	Interest expenses spent in domestic activities (A)/Interest expenses spent in domestic and non-domestic activities (A+ B)	Quarterly	Indicates the domestic versus non-domestic interest expenses structure of banks	[0,1]	F 20.03	020	010	F 20.03	020	020				
PFT 9	% of dividend income earned domestically	Dividend income earned in domestic activities (A)/Dividend income earned in domestic and non- domestic activities (A + B)	Quarterly	Indicates the domestic versus non-domestic dividend income structure of banks	[0,1]	F 20.03	040	010	F 20.03	040	020				
PFT 10	% of fee and commission income earned domestically	Fee and commission income earned in domestic activities (A)/Fee and commission income earned in domestic and nondomestic activities (A+B)	Quarterly	Indicates the domestic versus non-domestic fee and commission income structure of banks	[0,1]	F 20.03	050	010	F 20.03	050	020				
PFT 11	% of total net operating income earned domestically	Total net operating income earned in domestic activities (A)/Total net	Quarterly	Indicates the domestic versus non-domestic income structure of	[0,1]	F 20.03	155	010	F 20.03	155	020				



		operating income earned in domestic and non- domestic activities (A+B)		banks										
PFT 12	Structure of fee and commission income net – payment services	Income from payment services (A)/Fee and commission income (B)	Quarterly	Indicates the % of fees and commission earned by payment services	[0,1]	F 22.01	130	010	F 22.01	010	010			
PFT 13	Structure of fee and commission income net – structured finance	Income from structured finance (A) fee and commission income (B)	Quarterly	Indicates the % of fees and commission earned by structured finance	[0,1]	F 22.01	180	010	F 22.01	010	010			
PFT 14	Structure of fee and commission income net – asset management	Income from asset management (A)/Fee and commission income (B)	Quarterly	Indicates the % of fees and commission earned by asset management	[0,1]	F 22.01	070	010	F 22.01	010	010			
PFT 15	% of total profit or loss earned/lost in domestic activities	Profit or (-) loss for the year earned or lost in domestic activities (A)/Profit or (-) loss earned or lost in domestic and non-domestic activities (A+B)	Quarterly	Indicates the domestic versus non-domestic income structure of banks (to be treated with care if one of the data points is negative)	[0,1]	F 20.03	290	010	F 20.03	290	020			
PFT 16	% of total profit or loss earned/lost in non-domestic activities	Profit or (-) loss for the year earned or lost in non- domestic activities (B)/Profit or (-) loss earned or lost in domestic and non-domestic activities (A+ B)	Quarterly	Indicates the domestic versus non-domestic income structure of banks (to be treated with care if one of the data points is negative)	[0,1]	F 20.03	290	010	F 20.03	290	020			
PFT 17	Return on investment (RoE analysis)	Total net operating income (A)/Total assets (B)	Quarterly	It is the "return on investment" component (asset yield contribution) in the RoE analysis (follow the money approach)		F 02.00	355	010	F 01.01	380	010			
PFT 18	Gearing (RoE analysis)	Total assets (A)/Total equity (B)	Quarterly	It is the leverage contribution (gearing) in the RoE analysis (follow the money approach)		F 01.01	380	010	F 01.03	300	010			
PFT 19	Non-operating earnings (RoE analysis)	[Earnings before income tax = Profit or (-) loss before tax from continuing operations (A)]/[Net operating profit =Total operating income net (B)]	Quarterly	It is the non- operating earnings component in the RoE analysis (follow the money approach):		F 02.00	610	010	F 02.00	355	010			
PFT 20	Tax effect (RoE analysis)	[Net Profit = Profit or loss for the year (B)]/[Earnings	Quarterly	It is the tax effect in the RoE analysis (follow the		F 02.00	670	010	F 02.00	610	010			



		before Income Tax = Profit or (-) loss before tax from continuing operations (A)]		money approach):										
PFT 21	Return on equity	Profit or loss for the year (A) / Total equity (B)	Quarterly	It shows the profitability of the invested equity (accounting view of the equity)	[-1,1]	F 02.00	670	010	F 01.03	300	010			
PFT 22	Return on regulatory capital requirements	Profit or loss for the year (A) / Total risk exposure amount (B) * 0,08	Quarterly	It shows the profitability of the invested equity (supervisory view of the capital)	[-1,1]	F 02.00	670	010	C 02.00	010	010			
PFT 23	Cost-income ratio	Administrative and depreciation expenses (A) / Total net operating income (B)	Quarterly	It is the ratio of administrative and other costs to the total operating income	[-1,1]	F 02.00	360, 390	010	F 02.00	355	010			
PFT 24	Return on assets	Profit or loss for the year (A) / Total assets (B)	Quarterly	It shows the profitability of total assets	[-1,1]	F 02.00	670	010	F 01.01	380	010			
PFT 25	Net interest income to total operating income	Net interest income (A) / Total net operating income (B)	Quarterly	Share of net interest income in total operating income	[-1,1]	F 02.00	010, 090	010	F 02.00	355	010			
PFT 26	Net fee and commission income to total operating income	Net fee and commission income (A) / Total net operating income (B)	Quarterly	Share of net fee and commission income in total operating income	[0,1]	F 02.00	200, 210	010	F 02.00	355	010			
PFT 27	Dividend income to total operating income	Dividend income (A) / Total net operating income (B)	Quarterly	Share of dividend income in total operating income	[0,1]	F 02.00	160	010	F 02.00	355	010			
PFT 28	Net realised gains (losses) on financial assets and liabilities not measured at fair value through profit and loss to total operating income	Net gains or losses on financial assets and liabilities not measured at fair value through profit or loss (A) / Total net operating income (B)	Quarterly	Share of net income from realised gains and / or losses on financial assets and liabilities not measured at fair value through profit or loss in total operating income	[-1,1]	F 02.00	220	010	F 02.00	355	010			
PFT 29	Net gains on financial assets and liabilities held for trading to total operating income	Net gains or losses on financial assets and liabilities held for trading (A) / Total net operating income (B)	Quarterly	Share of net income from assets and liabilities held for trading in total operating income	[-1,1]	F 02.00	280	010	F 02.00	355	010			
PFT 30	Net gains on financial assets and liabilities designated at fair value through profit or loss to total operating income	Net gains or loses on financial assets and liabilities designated at fair value through profit or loss (A) / Total net operating income (B)	Quarterly	Share of net income from financial assets and liabilities designated at fair value through profit or loss in total operating income	[-1,1]	F 02.00	290	010	F 02.00	355	010			
PFT 31	Net other operating income to total	Net other operating income (A) /	Quarterly	Share of net other operating income in total	[-1,1]	F 02.00	340, 350	010	F 02.00	355	010			



	operating income	Total net operating income (B)		operating income											
PFT 32	Net income to total operating income	Profit or loss for the year (A) / Total net operating income (B)	Quarterly	Ratio of net income to total operating income	[-1,1]	F 02.00	670	010	F 02.00	355	010				
PFT 33	Annual growth rate of total operating income	[[[Total net operating income (A)t / Total net operating income (A)t- 12] -1] * 100]	Quarterly	It measures the annual growth rate of total operating income		F 02.00	355	010							
PFT 34	Average interest income for households	Interest income from loans and advances to households / Loans and advances to households (A/B)	Quarterly	Interest income earned by giving loans and advances to households as % of total interest income	[0,1]	F 16.01a	140	010	F 05.00	080	060				
PFT 35	Asset-deposit spread for central banks	Interest income from loans and advances and debt securities to central banks - Interest expense from deposits with central banks / Total equity ((A-B)/C)	Quarterly	It compares the interest income generated from loans and debt instruments to central banks with the interest expense accrued in deposits at central banks	[-1,1]	F 16.01a	030, 090	010	F 16.01b	170	020	F 01.03	300	010	
PFT 36	Asset-deposit spread for general governments	Interest income from loans and advances and debt securities to general governments - Interest expense from deposits with general governments / Total equity ((A-B)/C)	Quarterly	It compares the interest income generated from loans and debt instruments to general governments with the interest expense accrued in deposits with general governments	[-1,1]	F 16.01a	040, 100	010	F 16.01b	180	020	F 01.03	300	010	
PFT 37	Asset-deposit spread for credit institutions	Interest income from loans and advances and debt securities to credit institutions - Interest expense from deposits with credit institutions / Total equity ((A-B)/C)	Quarterly	It compares the interest income generated from loans and debt instruments to	[-1,1]	F 16.01a	050, 110	010	F 16.01b	190	020	F 01.03	300	010	
PFT 38	Asset-deposit spread for other financial corporations	Interest income from loans and advances and debt securities to other financial corporations - Interest expense from deposits with other financial corporations / Total equity	Quarterly	It compares the interest income generated from loans and debt	[-1,1]	F 16.01a	060, 120	010	F 16.01b	200	020	F 01.03	300	010	



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		((A-B)/C)		other financial corporations												
PFT 39	Asset-deposit spread for non-financial corporations	Interest income from loans and advances and debt securities to non-financial corporations - Interest expense from deposits with non-financial corporations / Total equity ((A-B)/C)	Quarterly	It compares the interest income generated from loans and debt instruments to non-financial corporations with the interest expense accrued in deposits with non-financial corporations	[-1,1]	F 16.01a	060, 130	010	F 16.01b		210	020	F 01.03	300	010	
PFT 40	Asset-deposit spread for households	Interest income from loans and advances to households - Interest expense from deposits with households / Total equity ((A-B)/C)	Quarterly	It compares the interest income generated from loans to households with the interest expense accrued in deposits with households	[-1,1]	F 16.01a	140	010	F 16.01b		220	020	F 01.03	300	010	
PFT 41	Net interest margin	Interest income and expenses (A) / Interest earning assets (B)	Quarterly	It measures the difference between the interest income generated by banks and the amount of interest paid out to their lenders, relative to the amount of their (interest- earning) assets.	[-1,1]	F 02.00	010 + 090	010	F 01.01		010+080+090+120 +130+160+170+1 80+210	010				
PFT 42	Provisions for pending legal issues and tax litigation as % of own funds	Pending legal issues and tax litigation (A) / Own funds	Quarterly	Indication for the (potential) costs for litigation and tax issues as a share of own funds	[-1,1]	F 01.02	210	010	C 01.00		010	010				
V. CO	NCENTRATIO	N RISK		Turido				I.								1 1
CON 1	Total large exposures	Total large exposures / Total exposures (A/B)	Quarterly	Share of large exposures on total original exposures. Alternative numerators and denominators could be considered	[0, 1]	C 28.00	sum(999)	040	C 04.00		860	010				
CON 2	Exposures over 10% of capital	Large exposures over 10% capital / Total exposures (A/B where C>10%)	Quarterly	Share of exposures over 10% of capital on total original exposures	[0, 1] and <= CON 1	C 28.00	sum(999)	040	C 04.00		860	010	C 28.00	sum(999)	230	
CON 3	Large exposures to institutions	Large exposures to institutions / Total exposures (A/(B + C), where D = I)	Quarterly	Share of large exposures to institutions on total original exposures (as above)	[0, 1] and <= CON 1	C 28.00	sum(999)	040	C 04.00		860	010	C 27.00	999	070	
CON 4	Large exposures to unregulated	Large exposures to unregulated financial	Quarterly	Share of large exposures to unregulated financial	[0, 1] and <= CON 1	C 28.00	sum(999)	040	C 04.00		860	010	C 27.00	999	070	



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	entities	entities / Total exposures (A/(B + C),		entities on total original exposures (as													
CON 5	Non-domestic assets	where D=U) Assets from non-domestic activities / Total assets (A/A + B)	Quarterly	Share of non- domestic assets in total assets	[0, 1]	F 20.01		320	020	F 20.01	320	010					
CON 6	Loans collateralised by IP	Loans collateralised by IP / Total loans and advances (A/B)	Quarterly	Share of loans collateralised by IP (residential and commercial) to total loans	[0, 1]	F 05.00		090	010-060	F 05.00	080	010-060					
CON 7	Residential mortgage loans to households	Residential mortgage loans to households / Total loans and advances (A/B)	Quarterly	Share of residential mortgage loans to households to total loans	[0, 1]	F 20.04	All	230	010-030	F 05.00	080	010-060					
CON 8	CRE loans	CRE mortgage loans (to non-financial corporations) / Total loans and advances (A/B)	Quarterly	Share of CRE mortgage loans to total loans	[0, 1]	F 20.04	All	210	010-030	F 05.00	080	010-060					
CON 9	Interests in SPEs	Assets and off- balance-sheet items in securitisation SPEs / Total assets and OBSI (A/(B + C))	Half- annually	Assets and off- balance-sheet items in securitisation vehicles, as a share of total	[0, 1], usually close to 0	F 30.02		(010, 120)	010	F 01.01	380	010	F 09.01	010, 090, 170	010		
CON 10	Interests in asset managers	Assets and off- balance-sheet items in asset managers / Total assets and OBSI (A/(B+C))	Half- annually	Assets and off- balance-sheet items in asset managers, as a share of total	[0, 1], usually close to 0	F 30.02		(010, 120)	020	F 01.01	380	010	F 09.01	010, 090, 170	010		
CON 11	Interests in other unconsolidate d structured entities	Assets and off- balance-sheet items in other unconsolidated structured entities / Total assets and OBSI (A/(B + C))	Half- annually	Assets and off- balance-sheet items in other unconsolidated structured entities, as a share of total	[0, 1], usually close to 0	F 30.02		(010, 120)	030	F 01.01	380	010	F 09.01	010, 090, 170	010		
VI.	SOLVENC																1
SVC 1	Tier 1 capital ratio	Tier 1 capital (A) / Total risk exposure amount (B)	Quarterly	It is a measure of the extent to which a financial institution can absorb losses using core components of equity. At the same time, it is a (more stringent than SVC_2) measure of compliance to regulatory capital requirements	[0,1]	C 01.00		015	010	C 02.00	010	010					
SVC 2	Total capital ratio	Own funds (A) / Total risk exposure amount (B)	Quarterly	It is a measure of the extent to which a financial institution can absorb losses using specific equity components.	[0,1]	C 01.00		010	010	C 02.00	010	010					



				At the same time, it is the most traditional and recognisable measure of compliance to regulatory											
SVC 3	CET 1 capital ratio	Common equity TIER 1 capital [A] / Total risk exposure amount (B)	Quarterly	capital requirements It is a measure of the extent to which a financial institution can absorb losses using core components of Tier 1 capital after any convertible components of debt has been eliminated. It is a more prudent measure of loss absorption capacity than the previous two SVCs indicators (SVC 1 and SVC 2)	[0,1]	C 01.00	020	010	C 02.00	010	010				
SVC 4	Credit risk exposure amounts of total risk exposure amounts	Risk-weighted exposure amounts for credit, counterparty credit and dilution risks and free deliveries (A) / Total risk exposure amount (B)	Quarterly	Indicates the participation of credit risk within the total risk-mix calculated for regulatory purposes	[0,1]	C 02.00	040	010	C 02.00	010	010				
SVC 5	SA risk- weighted exposure amounts of total credit risk exposure amounts	SA (A) / Risk- weighted exposure amounts for credit, counterparty credit and dilution risks and free deliveries (B)	Quarterly	Indicates the participation of the SA portfolio credit risk within the total investment portfolio risk calculated for regulatory purposes	[0,1]	C 02.00	050	010	C 02.00	040	010				
SVC 6	Securitisation risk exposure amounts of total risk exposure amounts	Securitisation positions (SA and IRB) (A) / Risk-weighted exposure amounts for credit, counterparty credit and dilution risks and free deliveries (B)	Quarterly	Indicates the participation of the credit risk caused by securitisation (SA or IRB) activity within the total investment portfolio risk calculated for regulatory purposes.	[0,1]	C 02.00	220, 430	010	C 02.00	010	010				
SVC 7	IRB approach risk exposure amounts of total credit risk exposure amounts	IRB approach (A) / Risk- weighted exposure amounts for credit, counterparty credit and dilution risks and free deliveries (B)	Quarterly	Indicates the participation of the IRB portfolio credit risk within the total investment portfolio risk calculated for regulatory purposes	[0,1]	C 02.00	240	010	C 02.00	040	010				



SVC 8	Market risk exposure of total risk exposure amounts	Total risk exposure amount for position, foreign exchange and commodities risks (A) / Total risk exposure amount (B)	Quarterly	Indicates the participation of 'market risk' within the 'total risk-mix' calculated for regulatory purposes.	[0,1]	C 02.00	520	010	C 02.00	010	010				
SVC 9	Operational risk exposure of total risk exposure amounts	Total risk exposure amount for OpR (A) / Total risk exposure amount (B)	Quarterly	participation of 'operational risk' within the 'total risk-mix' calculated for regulatory purposes.	[0,1]	C 02.00	590	010	C 02.00	010	010				
SVC 10	Settlement risk exposure of total risk exposure amounts	Settlement and delivery risk exposure amount (A) / Total risk exposure amount (B)	Quarterly	Indicates the participation of 'settlement risk' within the 'total risk-mix' calculated for regulatory purposes	[0,1]	C 02.00	490	010	C 02.00	010	010				
SVC 11	Other risk exposure of total risk exposure amounts	Other risk exposure amounts (A) / Total risk exposure amount (B)	Quarterly	Indicates the participation of risk from 'other categories' within the 'total risk-mix' calculated for regulatory purposes.	[0,1]	C 02.00	010- (040+050+520+590+490)	010	C 02.00	010	010				
SVC 12	Leverage ratio (fully phased- in definition of Tier 1)	[Tier 1 capital (fully phased- in definition) (A) / On- and off-balance- sheet exposures (B + C)] / 3	Quarterly	Indicates the level of dependence on either shareholder or external financing for usual financing activities as defined by the institution's business model. It is the simple arithmetic mean of the monthly leverage-ratios (capital-over-exposures) over a quarter, assuming that the capital measure has been calculated using the most prudent methodology (envisaged to be implemented by 2018). It is a compulsory calculated ratio (see Article 429, CRR 575/2013)	[0,1]	C 45.00	110	010, 020, 030 (average)	C 45.00	(010-100)	010, 020, 030 (average)	C 45.00	130, 150 (160 with negative sign)	010, 020, 030 (average)	
SVC 13	Leverage ratio (transitional definition of Tier 1)	[Tier 1 capital (transitional) (A) / On- and off-balance- sheet exposures (B + C)] / 3	Quarterly	Indicates the level of dependence on either shareholder or external financing for usual financing activities as defined by the institution's	[0,1]	C 45.00	120	010, 020, 030 (average)	C 45.00	(010-100)	010, 020, 030 (average)	C 45.00	140, 170 (160 with negative sign)	010, 020, 030 (average)	



				business model. It is the simple arithmetic mean of the monthly leverage ratios (capital-over- exposures) over a quarter, assuming that the capital measure has been calculated using by a transitional and less prudent way. It is a compulsory calculated and publicly disclosed ratio (see Article 429, CRR 575/2013)											
SVC 14	Regulatory own funds to accounting own funds	Own funds (A) / Total equity (B)	Quarterly	It measures the extent to which regulatory own funds correspond to the total equity of published financial reports. A low price of this ratio could signal low capacity to absorb losses in case of adverse changes in market conditions	Greater than 0	C 01.00	010	010	F 01.03	300	010				
SVC 15	Transitional adjustments due to grandfathered CET 1 Instruments to total Tier 1 capital	Transitional adjustments due to grandfathered CET 1 capital instruments (A) / Tier 1 capital (B)	Quarterly	national regulatory authority. Such adjustments are expected to be lifted after 2018.	Greater than 0	C 01.00	220	010	C 01.00	015	010				
SVC 16	IRB shortfall to total Tier 1 capital	[IRB shortfall of credit risk adjustments to EL (A) / Tier to capital (B)] x (- 1)	Quarterly	The IRB 'shortfall' vis-à- vis accounting provisions' deficit compared to EL is one of the major components that reduce regulatory own funds for IRB institutions. Consistent high prices of the ratio signal that IRB models' extracted results are not materialised	Greater than 0	C 01.00	380	010	C 01.00	015	010				



				into 'accounting provisions or credit adjustments' within the published financial statements											
SVC 17	Net DTA that rely on future profitability to total Tier 1 capital	[Deferred tax assets that rely on future profitability and do not arise from temporary differences net of associated tax liabilities (A) / Tier 1 capital (B)] x (-1)	Quarterly	It is a measure of the 'dependence' of the institution's primary solvency on deferred taxation adjustments. High values indicate that capital adequacy might be adversely affected by tax payment increases	Greater than 0	C 01.00	370	010	C 01.00	015	010				
SVC 18	Adjustments to CET 1 due to prudential filters to total Tier 1 capital	Adjustments to CET 1 due to prudential filters (A) / Tier 1 capital (B)	Quarterly	It is a measure of the effect that CET 1 prudential filters have on the capital adequacy benchmark	Any	C 01.00	250	010	C 01.00	015	010				
SVC 19	Deductible goodwill and other intangible assets to total Tier 1 capital	Goodwill and other intangible assets / Tier 1 capital (A/B * (- 1))	Quarterly	It is a further measure of the dependence of the institution's solvency on goodwill and intangible assets. Using transitional adjustments	Greater than 0	C 01.00	300, 340	010	C 01.00	015	010				
SVC 20	Defined benefit plan assets to total Tier 1 capital	Defined benefit pension fund assets (A) / Tier 1 capital (B)	Quarterly	It is a further measure of the dependence of the institution's solvency on transitional adjustments allowed by the national regulatory authority.	Greater than 0	C 05.01	190	010	C 01.00	015	010				
SVC 21	Capital and share premium to total equity	Capital and share premium (A) / Total equity (B)	Quarterly	Indicates the participation of core components of 'accounting own funds to total accounting own funds'. It serves as a CET 1 proxy in case a prudential report of regulatory own funds is not available (e.g. at the end of an interim month of the year)	[0,1]	F 01.03	010, 040	010	F 01.03	300	010				
SVC 22	Accumulated OCI to total equity	Accumulated other comprehensiv e income (A) / Total equity (B)	Quarterly	It is a measure of the extent to which total equity is affected by (primarily	[0,1]	F 01.03	090	010	F 01.03	300	010				



				illiquid) 'accrual'											1	
SVC 23	Retained earnings and reserves to total equity	Retained earnings, revaluation and other reserves (A) / Total equity (B)	Quarterly	components It is a measure of the extent to which past profitability and capital increases can reinforce the loss absorption 'pillows'. High values signal high loss absorption capacity	[0,1]	F 01.03	190, 200, 210	010	F 01.03	300	010					
SVC 24	Treasury shares to total equity	[Treasury shares (A) / Total equity (B)] x (-1)	Quarterly	It is a measure of the extent to which the institution indulges in trading of their own equity instruments (e.g. to boost share prices)	[0,1]	F 01.03	240	010	F 01.03	300	010					
SVC 25	Minority interests to total equity	Minority interest (A) / Total equity (B)	Quarterly	Indicates the participation of minority interests within total equity. It is a measure of the dependence on minority-shareholder funding. High values signal a projected difficulty in increasing capital and/or deferring dividend payments due to minority shareholders' objections	[0,1]	F 01.03	270	010	F 01.03	300	010					
SVC 26	Equity to total liabilities and equity	Total equity (A) / Total equity and liabilities (B)	Quarterly	Indicates the extent to which the institution relies mainly on shareholder or external investor funding to conduct its operations	[0,1]	F 01.03	300	010	F 01.03	310	010					
SVC 27	Tier 1 capital to 'total assets – intangible assets'	Tier 1 capital (A) / Total assets excluding intangible assets (B - C)	Quarterly	It is a further measure of loss absorption capacity. Ratio values are normally expected to be between SCV 13 (minimum) and SVC 1 (maximum). It serves as an indicator of whether capital adequacy and leverage are adversely affected by risky off-balance-sheet and leverage components (values close to SVC 1 show that the riskmix is not	[0,1]	C 01.00	015	010	F 01.01	380	010	F 01.01	300	010		



				materially affected by off- balance-sheet and derivative activity)																
SVC 28	Annual growth rate of RWAs	[[[Total risk exposure amount (A)t / Total risk exposure amount (A)t- 12] -1] * 100]	Quarterly	It is a measure of the annual expansion of the institution's risk exposures. Together with the study of regulatory capital balances' expansion, it helps to assess whether the 'risk appetite' of the business model remains the same	Any	C 02.00		010	010											
SVC 29	CET 1 (fully phased-in definition)	Tier 1 capital (A) / Total risk exposure amount (B) with both, numerator and denominator, being adjusted for transitional effects	Quarterly	The capital ratios in COREP are calculated taking into account the transitional period. For the analysis and the build-up of time series, the use of a stable definition (fully phased-in) is also of interest	Greater than 0	- C 05.01_ - C 01.00_ + MIN ([C 030)], 0)],	_Row 010_ _Row 440_ 01.00_Ro 0)} ator: C 02	_Col 010 w 530_Col 010) - C 01.00_Row 7 .00_Row 010_Col 010	(40_Col 010) -	C 05.01_Rd	ow 010_Col 020) - C 01.00_Row 7	'20_Col 010) +	МIN ([C 0	1.00_Row 7	750_Col 010) - C 01.4	00_Row 970_0	Col 010) - (C 05.01_Rov	010_C	lc
SVC 30	Total capital ratio (fully phased-in definition)	(Capital layers minus excess deductions[A]-Transitional adjustments on capital [B]) / (Total risk exposure amount [C] transitional adjustments on risk exposure amount [D])	Quarterly	The capital ratios in COREP are calculated taking into account the transitional period. For the analysis and the build-up of time series, the use of a stable definition (fully phased-in) is also of interest	Greater than 0	C 01.00		020+530+750-440-720-740- 970	010	C 05.01	010	010+020+ 030	C 02.00		010	010	C 05.01		01 0	040
VII. O	PERATIONAL	RISK		also of interest		1				L		I.						L	I	
OPR 1	Total risk exposure for OpR (% of total risk exposure)	Total risk exposure for OpR / Total risk exposure amount	Quarterly	Indicates the % of OpR exposures over the entire risk exposure of the institution	[0,1]	C 02.00		590	010	C 02.00	010	010								
OPR 2	OpR BIA risk exposure (% of total risk exposure OpR)	OpR BIA - BIA / Total risk exposure for OpR	Quarterly	Indicates the % of OpR exposure calculated using the BIA over the total OpR exposure	[0,1]	C 02.00		600	010	C 02.00	590	010								
OPR 3	OpR STA/ASA risk exposure (% of total risk exposure OpR)	OpR STA/ASA / Total risk exposure for OpR	Quarterly	Indicates the % of OpR exposure calculated using the STA or ASA over the total OpR exposure	[0,1]	C 02.00		610	010	C 02.00	590	010								
OPR 4	OpR AMA risk exposure (% of total risk	Total risk	Quarterly	Indicates the % of OpR exposure	[0,1]	C 02.00		620	010	C 02.00	590	010								



	exposure for OpR)	OpR		calculated using the AMA over the total OpR exposure													
OPR 5	Total OpR loss as % of own funds requirements for OpR	Total loss amount / (Total risk exposure amount for OpR * 0.08)	Quarterly	Indicates if the capital held for OpR is sufficient to cover OpR losses incurred	Greater or equal to 0	C 17.00.a	920	080	C 02.00	590	010						
OPR 6	Internal fraud loss as % of total OpR loss	Total loss amount for internal fraud / Total OpR loss amount	Quarterly	Indicates the proportion of OpR losses caused by internal fraud	[0,1]	C 17.00.a	920	010	C 17.00.a	920	080						
OPR 7	External fraud loss as % of total OpR loss	Total loss amount for external fraud / Total OpR loss amount	Quarterly	Indicates the proportion of OpR losses caused by external fraud	[0,1]	C 17.00.a	920	020	C 17.00.a	920	080						
OPR 8	Business disruptions and system failures loss as % of total OpR loss	Total loss amount for business and system failures / Total OpR loss amount	Quarterly	Indicates the proportion of OpR losses caused by business disruptions and system failures	[0,1]	C 17.00.a	920	060	C 17.00.a	920	080						
OPR 9	Total risk exposure for OpR compared to total risk exposure for credit risk	Total risk exposure for OpR / Total risk exposure for credit risk	Quarterly	Importance of OpR compared to credit risk	Greater or equal to 0	C 02.00	590	010	C 02.00	040	010						
OPR 10	Total risk exposure for trading risk compared to total risk exposure for OpR	Total risk exposure for trading risk / Total risk exposure for OpR	Quarterly	Importance of OpR compared to trading risk	Greater or equal to 0	C 02.00	520	010	C 02.00	590	010						
VIII. N	MARKET RISK														•	•	
MKR 1	OTC trading derivatives to total trading derivatives	OTC derivatives assets and liabilities for trading / Total assets and derivatives for trading (A/B)	Quarterly	It calculates (adding together assets and liabilities) how much of the trading activities with derivatives are carried out in OTC markets	[0,1]	F 10.00	300, 310, 320	010, 020	F 10.00	290	010, 020						
MKR 2	Commodities trading derivatives to total assets	Commodities trading derivatives that are not economic hedges / Total assets (A-B/C)	Quarterly	It assesses the importance of commodity trading activity against the size of the balance sheet of the reporting institution	[0,1]	F 10.00	250	010, 020	F 10.00	260	010	F 01.01	380	010			
MKR 3	Commodities derivatives to total assets	Commodities derivatives (hedging and non-hedging) / Total assets (A + B/C)	Quarterly	It assesses the importance of commodity derivatives against the size of the balance sheet of the reporting institution	[0,1]	F 10.00	250	010, 020	F 11.00	210, 440	010	F 01.01	380	010			
MKR 4	Total long positions in non-reporting currencies to total long positions	Total long positions in non-reporting currencies / Total long positions including reporting currency (A/B)	Quarterly	For SA banks, it discloses the importance of items denominated in a foreign currency, relating to assets (long	[0,1]	C 22.00	010	020	C 22.00	100, 110, 120	020						



				positions)										
MKR 5	Total short positions in non-reporting currencies to total short positions	Total short positions in non-reporting currencies / Total short positions including reporting currency (A/B)	Quarterly	For SA banks, it discloses the importance of items denominated in a foreign currency, relating to liabilities (short positions).	[0,1]	C 22.00	010	030	C 22.00	100, 110, 120	030			
MKR 6	Share of risk exposure amounts of traded debt instruments to risk exposure amounts	Risk exposure amounts for exchange traded debt instruments (TDI) / Total risk-weighted exposure amounts (A/B)	Quarterly	For SA banks, it discloses the proportion of traded debt instruments in the total risk exposure amount of the reporting institution	[0,1]	C 02.00	540	010	C 02.00	010	010			
MKR 7	Share of risk exposure amounts of equity to risk exposure amounts	Risk exposure amounts for equity / Total risk-weighted exposure amounts (A/B)	Quarterly	For SA banks, it discloses the proportion of equity in the total risk exposure amount of the reporting institution	[0,1]	C 02.00	550	010	C 02.00	010	010			
MKR 8	Share of risk exposure amounts of foreign exchange to risk exposure amounts	Risk exposure amounts for foreign exchange / Total risk- weighted exposure amounts (A/B)	Quarterly	For SA banks, it discloses the proportion of foreign exchange in the total risk exposure amount of the reporting institution	[0,1]	C 02.00	560	010	C 02.00	010	010			
MKR 9	Share of risk exposure amounts of commodities to risk exposure amounts	Risk exposure amounts for commodities / Total risk- weighted exposure amounts (A/B)	Quarterly	For SA banks, it discloses the proportion of commodities in the total risk exposure amount of the reporting institution	[0,1]	C 02.00	570	010	C 02.00	010	010			
MKR 10	Stress indicator	Maximum (stressed value at risk average and latest available) / Maximum (value at risk average and last day) (A/B)	Quarterly	For IM banks, it measures how close the current value at risk of the bank stands from the stressed one	Any	C 24.00	010	050, 060	C 24.00	010	030, 040			
MKR 11	Total unsettled transactions to risk-weighted exposure amounts	Total unsettled transactions at settlement price (trading and non-trading) / Riskweighted exposure amounts (A/B)	Quarterly	It provides a first indication of the amount of unsettled transactions of the reporting institution	Greater than 0	C 11.00	010, 070	010	C 02.00	010	010			
MKR 12	Total unsettled transactions more than 46 days to total unsettled transactions	Total unsettled transactions at settlement price more than 46 days (trading and non-trading) / Total unsettled transactions at settlement price (trading and non-trading) (A/B)	Quarterly	It highlights whether most of the unsettled transactions have a long period of unsettlement or whether they are more short-termed	[0,1]	C 11.00	060, 120	010	C 11.00	010, 070	010			



MKR 13	Proportion of derivatives and SFT to total risk- weighted exposure amounts	Risk-weighted exposure amounts of derivatives and SFT with and without contractual netting agreements / Total risk-weighted exposure amounts (A/B)	Quarterly	It provides a view of the weight of derivative and SFT transactions in comparison to the total riskweighted exposure amounts of the reporting institutions	[0,1]	C 43.00		040, 050, 060	020	C 43.00		010 010, 040, 050, 060, 070	020								
MKR 14	Total long and short positions on commodities to total exposures	Short and long positions on commodities / Total original exposures (A/B)	Quarterly	For SA banks, it provides a first rough view of the size of commodity positions compared to the total exposures of the reporting institutions	[0,1]	C 23.00		010	010, 020	C 04.00		860	010								
IX. S	MEs RISK IND	DICATORS		Gives broader	<u> </u>						<u> </u>		T								
SME 1	Share of SME exposures in total exposures	[SME original exposures (SA) [A] + SME original exposures (IRB) [B]] / [Total original exposures (SA) [C] + Total original exposures (IRB) [D]]	Quarterly	information on the weight of SME exposures in total bank exposures. The SME lending is based on the unharmonised SME definitions used by each bank.	[0,1]	C 07.00.a	001	020	010	C 08.01.a	007, '008, '013, '016	010	020	C 07.00. a	001	010	010	C 08.01. a	001, '002	01	020
SME 2.1	Share of SME exposures in exposures to the real economy (corporates, retail and secured by immovable property) for SA	SME original exposures (SA) [A] / Original exposure to corporates and retail (SA) [B]	Quarterly	To be able to judge the relative importance of SME lending compared to other lending to the private sector. SA excludes exposures in default.	[0,1]	C 07.00.a	001	020	010	C 07.00.a	008, s009, s010	010	010								
SME 2.2	Share of SME exposures in exposures to the real economy (corporates and retail) for IRB Approach	SME original exposure (IRB) [A] / Original exposure to corporates and retail (IRB) [B]	Quarterly	To be able to judge the relative importance of SME lending compared to other lending to the private sector. IRB includes exposures in default.	[0,1]	C 08.01.a	007, '008, '013, '016	010	020	C 08.01.a	007 to s017	010	020								
SME 3	Share of SME exposures subject to SME Supporting Factor in total exposures	[Original exposures s.t. SF (SA) [A] + original exposure s.t. SF (IRB) [B]] / Total original exposure (SA+IRB) [C+D]	Quarterly	Gives broader information on the weight of SME exposures subject to SME Supporting Factor in total bank exposures. The SME lending is based on the harmonized SME definitions subject to Supporting Factor as	[0,1]	C 07.00.a	001	030	010	C 08.01.a	001, '002	015	020	C 07.00. a	001	010	010	C 08.01. a	001, '002	01	020



			1							-			1					1		
				defined by Article 501 CRR. At bank level, comparison of indicators 1 and 2 would show how the 2 SME definitions relate to each other, and at country level, it will show the impact of these differences.																
SME 4	% change (year on year) of SME exposures during the period	[SME original exposures (SA) [A] + SME original exposure (IRB) [B]] Q(t) - [SME original exposures (SA) [A] + SME original exposure (IRB) [B]] Q(t-4)/ [SME original exposures (SA) [A] + SME original exposures (SA) [A] + SME original exposure (IRB) [B]] Q(t-4)	Quarterly	Gives broader information on the weight of SME exposures in total bank exposures. The SME lending is based on the unharmonised SME definitions used by each bank. Note: this figure does not represent new business, but merely growth in the exposure amount	% positive, null or negative values (expected to stay within 'normal' ranges, for example +/- 10%)	C 07.00.a Q (t)	001	020	010	C 08.01a Q (t)	007, '008, '013, '016	010	020	C 07.00. a	001	020	010	C 08.01. a Q (t- 4)	007, '008, '013, '016	01 0 020
SME 5	% (year on year) growth of SME exposures subject to SME Supporting Factor during the period	[Original exposures s.t. SF (SA) [A] + original exposure s.t. SF (IRB) [B]] Q(t) - [Original exposures s.t. SF (SA) [A] + original exposure s.t. SF (IRB) [B]] Q(t-4) / [Original exposures s.t. SF (SA) [A] + original exposures s.t. SF (SA) [A] + original exposures s.t. SF (IRB) [B]] Q(t-4)	Quarterly	Gives information on the development (increase/decr ease) of the volume of SME exposures subject to the SME Supporting Factor, independently from their level Note: this figure does not represent new business, but merely growth in the exposure amount	% positive, null or negative values (expected to stay within 'normal' ranges, for example +/- 10%)	C 07.00.a Q (t)	001	030	010	C 08.01.a Q (t)	001,	015	020	C 07.00. a	001	030	010	C 08.01. a Q (t- 4)	001, '002	01 020
SME 6.1	Risk weight ratio for SME exposures for SA	Risk weighted SME exposure after SF (SA) [A] / SME exposure value (SA) [B]	Quarterly	Gives information on the average level of credit risk carried by SME assets (SA), keeping in mind that the SME/SF has also been applied to some assets. Note: This figures will incorporate the CRM with substitution effects, which	% positive values (0-100%). In some rare cases, depending on types of assets, RW ratio could be > to 100%.	C 07.00.a	001	020	220	C 07.00.a	001	020	200							



				means that some SME exposures may be reported as another exposure class for the purpose of risk weighting												
SME 6.2	Risk weight ratio for SME exposures for IRB Approach	Risk weighted SME exposures after SF (IRB) [A] / SME exposure value (IRB) [B]	Quarterly	Gives information on the average level of credit risk carried by SME assets (IRB), keeping in mind that the SME/SF has also been applied to some assets. Note: This figures will incorporate the CRM with substitution effects, which means that some SME exposures may be reported as another exposure class for the purpose of risk weighting	% positive values (0-100%). In some rare cases, depending on types of assets, RW ratio could be > to 100%.	C 08.01.a	007, '008, '013, '016	010	260	C 08.01.a	007, '008, '013, '016	010	110			
SME 7.1	Risk weight ratio for SME exposures subject to SME Supporting Factor for SA	Risk weighted exposures s.t. SF after SF (SA) [A] / Exposure value of exposures s.t. SF (SA) [B]	Quarterly	Gives information on the average level of credit risk carried by SME/SF assets (SA)	% positive values (0-100%). In some rare cases, depending on types of assets, RW ratio could be > to 100%.	C 07.00	001	030	220	C 07.00	001	030	200			
SME 7.2	Risk weight ratio for SME exposures subject to SME Supporting Factor for IRB Approach	Risk weighted exposures s.t. SF after SF [A] / SME/SF exposure value (IRB) [B]	Quarterly	Gives information on the average level of credit risk carried by SME/SF assets (IRB)	% positive values (0-100%). In some rare cases, depending on types of assets, RW ratio could be > to 100%.	C 08.01.a	001, '002	015	260	C 08.01.a	001, '002	015	110			
SME 8	Probability of default for SME exposures (IRB only)	Internal rating system - PD assigned to the obligor grade or pool [A] weighted by exposure value [B]	Quarterly	Gives information on the probability of default associated to SME exposures in case of IRB banks Note: Part of the information on the expected and unexpected loss is captured by LGD, which is not available.	[0,1]	C 08.01.a	007, '008, '013, '016	010	010	C 08.01.a	007, '008, '013, '016	010	110			
SME 9	Probability of default for SME exposures subject to SME Supporting Factor (IRB only)	Internal rating system - PD assigned to the obligor grade or pool [A] weighted by exposure value [B]	Quarterly	Gives information on the probability of default associated to SME exposures subject to SME supporting factor in case	[0,1]	C 08.01a	001,	015	010	C 08.01a	001,	015	110			



				of IRB banks																
				Note: Part of the information on the expected and unexpected loss is captured by LGD, which is not available.																
SME 10	LGD for SME exposures (IRB only)	Exposure weighted average LGD [A] weighted by exposure value [B]	Quarterly	Gives information on the loss given default associated to SME exposures in case of IRB banks	[0,1]	C 08.01.a	007, '008, '013, '016	010	230	C 08.01.a	007, '008, '013, '016	010	110							
SME 11	LGD for SME exposures subject to SME Supporting Factor (IRB only)	Exposure weighted average LGD [A] weighted by exposure value [B]	Quarterly	Gives information on the loss given default associated to SME exposures in case of IRB banks	[0,1]	C 08.01a	001, '002	015	230	C 08.01a	001, '002	015	110							
SME 12	Share of SME exposures in default in total SME exposures	[SME Exposures in default SA [A] + SME exposures in default IRB [B]] / SME original exposure (SA+IRB) [C+D] Sum of all countries	Quarterly	Gives information on the relative importance of defaulted SME exposures among SME exposures overall and by country. May be compared with the same value for other classes or across banks, as calculated in indicator AQT 11. Can also be computed for SME Corporate, SME Retail and SME secured by real estate.	% positive values (expected to stay within 'normal' ranges, for example +/- 5%, difficult to assess, must be evaluated on a class-by-class basis)	C 09.01.b	NA	075, 085, 095	020	C 09.02	NA	050, 080, 120	030	C 09.01. a	999	075, 085, 095	010	C 09.02	NA	05 0, 08 0, 12 0
SME 13	% change (year-on-year) of defaulted SME exposures during the period	SME Exposures in default SA [A] + SME exposures in default IRB [B]] Q(t) - [SME Exposures in default SA [C] + SME exposures in default IRB [D]] Q(t-4) / [SME Exposures in default SA [C] + SME exposures in default IRB [D]] Q(t-4) Sum of all countries	Quarterly	Gives information on the development (increase/decrease) of defaulted SME exposures, independently from their level	% positive, null or negative values (expected to stay within 'normal' ranges, for example +/- 10%)	C 09.01.b Q(t)	NA	075, 085, 095	020	C 09.02 Q(t)	NA	050, 080, 120	030	C 09.01. a Q(t- 4)	NA	075, 085, 095	020	C 09.02 Q(t-4)	NA	05 0, 08 0, 12
SME 14	Post-CRM SME exposure to original	SME exposure value (SA+IRB)	Quarterly	Gives information on the SME	[0,1]	C 07.00.a	001	020	200	C 08.01a	007, '008, '013,	010	110	C 07.00	001	020	010	C 08.01a	007, '008, '013,	01 020



	SME exposure	[A+B]) / SME Original exposure (SA+IRB) [C+D]		dependency on credit protection (SA+IRB). Can be compared to the same values of all exposures as calculated in AQT 14. Note: Only Totals can be used due to the flow of amounts across exposure classes for reporting purposes following CRM. This figure captures only credit protection that leads to the reduction in exposure value.							'016							'016		
SME 15	Post-CRM SME exposure subject to SME Supporting Factor to original exposure	Exposure value on exposures s.t. SF (SA+IRB) [A+B] / SME Original exposure (SA+IRB) [C+D])	Quarterly	Gives information on the dependency of SME exposures to the SME Supporting Factor on credit protection (SA+IRB). Can be compared to the same values of all exposures as calculated in AQT 14. Note: Only Totals can be used due to the flow of amounts across exposure classes for reporting purposes following CRM. This figure captures only credit protection that leads to the reduction in exposure value.	[0,1]	C 07.00	001	030	200	C 08.01a	001, '002	015	110	C 07.00	001	030	010	C 001, 08.01a '002	01 5	020
		[CET1 (A) / Total Risk Exposure				C 01.00	NA	020	010	C 02.00	NA	010	010	C 07.00. a	001	030	215	C 08.01. 001, '002	01 5	255
		Amount [B]] - [CET1 (A) / [Total Risk		Increase in the		Data Poi	nt E			Data Poir	nt F						1			
	Increase in CET1 capital ratio with the	Exposure Amount [B] +		Common Equity Tier 1 Capital		Templa te	Sheet	Template	Sheet	Templa te	Sheet	Template	Sheet							
SME 16	application of SME supporting factor	Risk weighted exposure amount before SF (SA+IRB) [C + D] - Risk weighted exposure amount after SF (SA+IRB) [E + F]]	Quarterly	associated to the application of the SME Supporting Factor	p.p. positive values	C 07.00.a	001	030	220	C 08.01.a	s001, s002	015	260							





ANNEX II.

DRATs



						Data Point	Α		_	Data Point	В			Data Point	С		
Number	Name	Formula	Frequency	Description	Expected values	Template	Sheet	Row	Column	Template	Sheet	Row	Column	Template	Sheet	Row	Column
I. MATF	RICES OF CONCENTRAT	ION											•				
DRAT 1	Distribution matrix of original exposure by sector and country	See 'Matrix1'	Quarterly	Double entry matrix with row axis being countries and column axis being sector groups. Sector grouping could be defined as a mapping between SA and IRB sectors so as to allow an aggregation of exposures	[0,1]	C 09.01a	All	All except 100	010	C 09.01b	All	All	020	C 09.02	All	All	010
DRAT 2	Distribution matrix of defaulted exposure by sector and country	See 'Matrix1'	Quarterly	Double entry matrix with row axis being countries and column axis being sector groups	[0,1]	C 09.01b	All	All	020	C 09.02	All	All	030				
DRAT 3	Distribution matrix of observed new defaults by sector and country	See 'Matrix1'	Quarterly	Double entry matrix with row axis being countries groups and column axis being sector groups	[0,1]	C 09.01b	All	All	040	C 09.02	All	All	040				
DRAT 4	Distribution matrix of provision coverage ratio by sector and country	See 'Matrix1'. Coverage ratio = (General credit risk adjustments + Specific credit risk adjustments - Of which write-offs) / Exposure in default	Quarterly	Double entry matrix with row axis being countries and column axis being sector groups. Ratio is a proxy		C 09.01a	All	All	{050, 055, 060}	C 09.01b	All	All	020	C 09.02	All	All	{030, 050, 055, 060}
DRAT 5	Distribution matrix of write- offs by sector and country	See 'Matrix1'	Quarterly	Double entry matrix with row axis being countries and column axis being sector groups		C 09.01a	All	All	060	C 09.02	All	All	060				
DRAT 6	Distribution matrix of RWA by sector and country of non-defaulted exposures	See 'Matrix1'. Minimum [RWA before SME supporting factor, RWA after SME supporting factor]_SA + Minimum [RWA before SME supporting factor, RWA after SME supporting factor, RWA after SME supporting factor]_IRB - RWA of which: defaulted IRB	Quarterly	Double entry matrix with row axis being countries and column axis being sector groups. As there is no geographical breakdown of RWA of defaulted exposures by asset class for the SA, we subtract that figure from the IRB (C 09.02 - Row 120)		C 09.01a	All	All except 100	{080, 090}	C 09.02	All	All	{110, 120, 125}				
DRAT 7	Distribution matrix of own funds requirements for credit risk (as calculated for capital buffers) by country	See 'Matrix1'	Quarterly	Double entry matrix with countries in rows and the own funds requirements for credit risk as the only column of the template		C 09.03	All	010	010								
DRAT 8	Distribution of overall losses from property by country group	Matrix2	Half- annually	Indicates the proportion of losses from property collateralised exposures for RRE and CRE individually across region groups. A total column would indicate total losses across regions		C 15.00	All	All	030								
DRAT 9	Distribution of loss rates from property by country	Matrix2 // A/B	Half- annually	Indicates a loss rate over collateralised exposure for RRE, CRE and combined by country		C 15.00	All	All	030	C 15.00	All	All	050				
DRAT 10	Distribution of FINREP assets and off-balance-sheet items by country	Matrices 3 and 4	Quarterly	Indicates the proportion of assets across different sectors over countries		F 20.04	All	All	010	F 20.05.a	All	All	010				
DRAT 11	Distribution of FINREP default rates by assets and off-balance-sheet items and by country	See 'Matrix3'. Default rate = Of which: non- performing / Carrying amount	Quarterly	Indicates default rates across different sectors over countries		F 20.04	All	All	{010, 020}	F 20.05.a	All	All	All				
DRAT 12	Distribution of FINREP coverage ratios by assets and off-bze items and by country	See 'Matrix3'. Coverage ratio = Accumulated impairment and changes in fair value due to credit risk / Of which: non-performing	Quarterly	Indicates coverage ratios across different sectors over countries. Ratio may be greater than 1 when there are impairment provisions on exposures that are impaired but not defaulted. Ratio is a proxy, as the template does		F 20.04	All	All	{025, 030}	F 20.05.a	All	All	025	F 20.05.b	All	All	030
DRAT 13	Distribution of loans and advances to non-financial corporations by NACE codes and country	Gross carrying amount per NACE	Quarterly	Indicates the % of loan and advances per NACE code by country		F 20.07	All	All	010								
DRAT 14	Distribution of loans and advances cumulative impairments by NACE codes and country	Accumulated impairment or changes in fair	Quarterly	Indicates the % of cumulative impairment per NACE code and country over total impairments in loan and advances		F 20.07	All	All	020								



		and advances ('Matrix5')											
DRAT 15	Distribution of liquid assets among currencies	'Matrix6'	Quarterly (monthly also possible)	This matrix, covering all banks, will show how many of the liquid assets are held in the euro and in other currencies	C 51.00	All	(010-390)	020 (if not available, 030; if not available, 040)					
DRAT 16	Total inflows minus outflows by currencies (A - B)	'Matrix6'	Quarterly (monthly also possible)	This matrix, covering all banks, will show the net flows in all currencies. It would need to aggregate all the items reported in templates C 52.00 and C 53.00	C 53.00	All	(010-980)	010 (if any, also 030 and 050)	C 52.00 All	(020- 1370)	010 for rows 020- 950, 1060- 1130 and 1220-1370; 010 and 030 for rows 960- 1040; 050 for row 1050; 030 for rows 1140-1210		
DRAT 17	Exposures by sector (all portfolios)	Matrix of exposure to each sector (all portfolios) / Total exposures (A/B) ['Matrix7']	Quarterly	Share of exposure to each sector (sum F04.01-F04.04) to total exposures	F 04.01- 04		(030-50, 070-110, 130-180) for F 04.01, F 04.02 and F 04.03; (020- 060), (080- 130), (160- 200), (220-270) for F 04.04	010 for F 04.01 and F 04.02; 030 for F 04.03; 060 for F 04.04					
DRAT 18	Exposures by sector (trading book)	Matrix of exposure to each sector (all portfolios) / Total exposures (A/B) ['Matrix7']	Quarterly	Share of exposure to each sector in the trading book to total trading book exposures	F 04.01		(030-50, 070-110, 130-180)	010					
II. RANK	INGS OF COUNTERPART	TIES FROM LARG	SE EXPOS	URES									
DRAT 19	Top 10 counterparties classified as institutions	Top 10 institutions to which EU banks are exposed (top 10 as per Article 394(2) of the CRR and those larger than EUR 300 million)	Quarterly	All the exposures to institutions (C 27.00 c070 = 'l') reported in C 28 (both the top 10 or those larger than EUR 300 million) are aggregated and a ranking is made with those with larger amounts	C 27.00		All	070	C 28.00	All	040		
DRAT 20	Top 10 counterparties classified as unregulated financial entities	Top 10 unregulated financial entities to which EU banks are exposed (top 10 as per Article 394(2) of the CRR and those larger than EUR 300 million)	Quarterly	All the exposures to unregulated financial entities (C 27.00 c070 = 'U') reported in C 28 (both the top 10 or those larger than EUR 300 million) are aggregated and a ranking is made with those with larger amounts	C 27.00		All	070	C 28.00	All	040		
DRAT 21	Top 10 counterparties classified as non-financial corporations	Top 10 non-financial corporations to which EU banks are exposed (top 10 as per Article 394(2) of the CRR and those larger than EUR 300 million)	Quarterly	All the exposures to non-financial corporations (C 27.00 c050 = 'non-financial corporations') reported in C 28 (both the top 10 or those larger than EUR 300 million) are aggregated and a ranking is made with those with larger amounts	C 27.00		All	050	C 28.00	All	040		
DRAT 22	Top 10 counterparties classified as institutions by number of large exposures	Top 10 institutions to which EU banks are exposed (top 10 as per Article 394(2) of the CRR and those larger than EUR 300 million) in terms of the number (not	Quarterly	All the exposures to institutions (C 27.00 c070 = 'I') reported in C 28 (both the top 10 or those larger than EUR 300 million) are counted and a ranking is made with those which appear more often	C 27.00		All	070	C 28.00	999			



	 	amounts) of large	1		I					T T		Γ		
		exposures												
DRAT 23	Top 10 counterparties classified as unregulated financial entities by number of large exposures	Top 10 unregulated financial entities to which EU banks are exposed (top 10 as per Article 394(2) of the CRR and those larger than EUR 300 million) in terms of the number (not amounts) of large exposures	Quarterly	All the exposures to unregulated financial entities (C 27.00 c070 = 'U') reported in C 28 (both the top 10 or those larger than EUR 300 million) are counted and a ranking is made with those which appear more often		C 27.00		All	070	C 28.00	999			
DRAT 24	Top 10 counterparties classified as non-financial corporations by number of large exposures	Top 10 non-financial corporations to which EU banks are exposed (top 10 as per Article 394(2) of the CRR and those larger than EUR 300 million) in terms of the number (not amounts) of large exposures	Quarterly	All the exposures to non-financial corporations (C 27.00 c050 = 'non-financial corporations') reported in C 28 (both the top 10 or those larger than EUR 300 million) are counted and a ranking is made with those which appear more often		C 27.00		All	050	C 28.00	999			
III. RANK	INGS OF DEFAULTED AN	ND NON-PERFOR	RMING EXP	OSURES										
DRAT 25	Ranking of countries according to non-performing exposures (EUR million)	Top 10 countries ranked according to the total amount of non-performing exposures	Quarterly	Starting from template F 20.04, non-performing exposures are aggregated for all institutions and countries are ranked starting with those with larger non-performing exposures in absolute amounts		F 20.04		010, 040, 080, 140	025					
DRAT 26	Ranking of countries according to non-performing exposures to total financial assets	Top 10 countries ranked according to the total amount of non-performing exposures as a % of financial assets	Quarterly	Starting from template F 20.04, non-performing exposures are aggregated for all institutions and countries are ranked starting with those with larger non-performing exposures in relative terms (A / B)		F 20.04		010, 040, 080, 140	025	F 20.04	010, 040, 080, 140	010		
IV. LIQU	IDITY AND FUNDING INF	ORMATION												
DRAT 27	Liquid assets to items requiring stable funding ratio by currency	Liquid assets to items requiring stable funding ratio by currency (A / B)	Quarterly (monthly also possible)	Templates C 51.00 and C 60.00 would be aggregated by currency (sheet) and then the indicator LIQ 7 would be calculated over that total amount		C 51.00	All	(010-390)	020 (if not available, 030; if not available, 040)	C 60.00 All	(010- 1310)	(010-150)		
DRAT 28	Term funding per currency	Term retail deposits + Term liabilities from customers that are financial customers + Term liabilities from customers that are financial customers (A) / Total items providing stable funding (B) by currency	Quarterly (monthly also possible)	Template C 61.00 would be aggregated by currency (sheet) and then the indicator LIQ 9 would be calculated over that total amount		C 61.00	All	(040-200)	(020-050)	C 61.00 All	(010-250)	(010-050)		
V. ASSI	ET QUALITY MATRICES													
DRAT 29	Average LGD per exposure class	Exposure weighted average LGD in %, per exposure class, as per Matrix8	Quarterly	Gives information on the LGD for those defaulted exposures under IRB.		C 08.01		010	230-240					
DRAT 30	Average PD of IRB exposures by exposure class	PD assigned to total exposures [A]. See Matrix8	Quarterly	Gives information on the average PD on total IRB exposures, defaulted or not	% positive values (0-100%); expected to stay within 'normal' ranges and not vary too much from one period to another	C 08.01		010	010					



DRAT 31	Average PD of non-defaulted IRB exposures by exposure	(Calculated PD for non-defaulted exposures only)> sum of (assigned PD * exposure value of non-defaulted class) [A*B] / Sum of (exposure value of non-defaulted classes) [C]. See Matrix8	Gives information on the average PD on total IRB exposures without taking defaulted exposures into account	% positive values (0-100%); expected to stay within 'normal' ranges and not vary too much from one period to another	C 08.02	(for each class) PD<100% (not fixed rows)		C 08.02	(for each class) PD<100% (not fixed rows)	110	C 08.02	(for each class) PD<100% (not fixed rows)	110
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MATRIX 1		•					Retail							
	Rating of country (min)		Corporates	_			Secured by real e	state		Other retail	<u></u>			
%	country (min)	Central government	Institutions	Specialised lending	SME	Other	RRE – SME	RRE – Non-SME	QR	Other SME	Other non-SME	Equity	SA partial use	Total regions
Austria		Sector in region / Total sector							***************************************					Region / Total
		Sector in region / Total region												
Belgium														
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Total sectors	Sector / Total						Total

MATRIX 2		T		1
%	Residential real estate (row 010)	Commercial real estate (row 020)	Total (rows 010 + 020)	Total regions
Austria	Loss in region / Total loss	Common state country (con 522)		Region / Total
111111111111111111111111111111111111111	Loss in region / Total exposure (column 050) in region			1
Belgium				
Bulgaria				
Cyprus				
Czech Republic				
Denmark				
Estonia				
Finland				
France				
Germany				
Greece				
Hungary				
Ireland				
Italy				
Latvia				
Lithuania				
Luxembourg				
Malta				
Netherlands				
Poland				
Portugal			-	
Romania				
Slovakia				



Slovenia			
Spain			
Sweden			
United Kingdom			
Croatia			
Other non-EU markets			T
Total losses	Loss / Total		Total

%	Gross carrying amounts				Nominal amounts				
Austria	Derivatives	Equity instruments (F20.04: 040)	Debt securities (F20.04: 080)	Loans and advances (F20.04: 140)	Loan commitments (F20.05.a: 010)	given	Financial guarantees given (F20.05.a: 020)	Other commitments given (F20.05.a: 030)	Total regions
	Product in region / Total product								Region / Total
Belgium	Product in region / Total region								
Bulgaria									
Cyprus									
Czech Republic									
O20011 (Cpublio									
Denmark									
Catania									
Estonia									
Finland									
France									
Germany									
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Greece									
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Cayman Islands					
China					
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South Korea					
India					
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South Africa					
Australia					



Norway				
Notway				
Iceland				
Total products				
	Product / Total			Total

% (F 20.04, column 010)					Non-Grand I			Turan			
010)				011	Non-financial corporation			Households			
Austria	Central banks (090 + 150) Sector in region / Total	General governments (100 + 160)	Credit institutions (020 + 050 + 110 + 170)	Other financial corporations (030 + 060 + 120 + 180)	Other (010-020-030) + (040-050-060-070) + 130 + (190-200-210)	Corp SME (200)	CRE (210)	RRE (230)	Consumer loans (240)	Other (220-230-240)	Total regions
	sector										Region / Total
Belgium	Sector in region / Total region										Trogion / Total
Bulgaria											
Cyprus											
Czech Republic											
Denmark											
Estonia											
Finland											
France											
Germany											
Greece											
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Luxembourg											
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Netherlands											
Poland											



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Total sectors					
	Sector / Total				Total

% (F 20.07, column 010)	and fishing (010)	B Mining and quarryin g (020)	C Manufacturi ng (030)	D Electricity, gas, steam and air conditionin g supply (040)	у	F	G Wholesal e and retail trade (070)	H Transpo rt and storage (080)	I Accommodati on and food service activities (090)	J Information and communicati on (100)	L Real estate activitie s (110)	M Profession al, scientific and technical activities (120)	N Administrati ve and support service activities (130)	O Public administrati on and defence, compulsory social security (140)	P Educatio n (150)	Q Human health service s and social work activitie s (160)	R Arts, entertainme nt and recreation (170)	S Other service s (180)	Financial corporatio ns	Total regions
Austria	Loans in region / Total loans Loans in region / Total																			Region / Total
Belgium	region																			
Bulgaria																				
Cyprus																				
Czech Republic																				
Denmark																				
Estonia																				
Finland																				
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Total loans	Loans / Total									Total



	Template C 51.00	Template C 53.00	Template C 52.00	Inflows-outflows
	Liquid assets	Inflows	Outflows	Net
EUR	Sheet euro / Total	Sheet euro / Total	Sheet euro / Total	Euro / Total
GBP	Sheet GBP / Total	Sheet GBP / Total	Sheet GBP / Total	GBP / Total
BGN				
CZK				
DKK				
HUF				
PLZ				
RON				
SKK				
HRK				
NKK				
ISK				
USD				
CHF				
JPY				
RUB				
CNY				
AUD				
CAD				
INR				
ZAR				
HKD				
SGD				
KYD				
TRY				
BRL				
MXN				
KRW				

_ %	Held for trading (F 04.01)	Designated at fair value through profit or loss (F 04.02)	Loans and advances and held to maturity (F 04.04)	Available-for-sale (F 04.03)	Total
Central banks	Sector / Total				
General governments					
Credit institutions					
Other financial corporations					
Non-financial corporations					
Households					
Total	100%	100%	100%	100%	100%

EBA EUROPEAN BANKING AUTHORITY

	Exposure-weighted average LGD (%)	Exposure-weighted average LGD (%) for large financial sector entities and unregulated financial entities	PD assigned to the obligor grade or pool (%)	Exposure value of non-defaulted obligor grades or pools (from C 08.02)
Central banks and central governments				
Institutions				
Corporate – SME				
Corporate – specialised lending				
Corporate – other				
Retail – secured by IP SME				
Retail – secured by IP non-SME				
Retail – qualifying revolving				
Retail – other SME				
Retail – other non- SME				
Total				



IRB – SA SECTOR MAPPING¹⁵

IRB (C 09.02) SA (C 09.01a + C 09.01.b)

IRB (C 09.02)		SA (C 09.01a + C 09.01.b)
Central governments or central banks (010)	+	Central governments or central banks (010) Regional governments or local authorities (020) Public sector entities (030) Multilateral development banks (040) International organisations (050)
Institutions (020)	+	Institutions (060) Covered bonds (120)
Corporates (030)	+	Corporates (070)
Of which: specialised lending (corporate) (040)	+	
Of which: SME (corporate) (050)	+	Of which: SME (Corporate) (075)
Corporates other (= Total corporate_030-SME-spec lending_050)	+	Corporates other (= Total corporate_070 - SME_075)
Retail (060)	+	Retail (080) Secured by mortgages on IP (Retail RRE) (090)
Retail – secured by real estate property (070)	+	Secured by mortgages on IP (Retail RRE) (090)
SME (retail secured by RE) (080)	+	Of which: SME (retail RRE) (095)
Non-SME (retail secured by RE) (090)	+	Retail RRE (Other = Secured by mortgages_090 - SME_095)
Qualifying revolving (retail) (100)	+	
Other retail (retail) (110)	+	Retail (080)
SME (other retail) (120)	+	Of which: SME (retail) (085)
Non-SME (other retail) (130)	+	Retail (Other = Retail_080 - Retail SME_085)
Equity (140)	+	Equity exposures (150)
	1	

- SA partial use:

 Items associated with particularly high risk (110)

 Claims on institutions and corporates with a short-term credit assessment (130)

 Claims in the form of CIU (140)

 Other exposures (160)

¹⁵ Fields are marked in red due to rebalancing.

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