

ECB-RESTRICTED

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ESCB statistics and the main challenges ahead

ECB Central Banking Seminar Tuesday, 2 July 2019

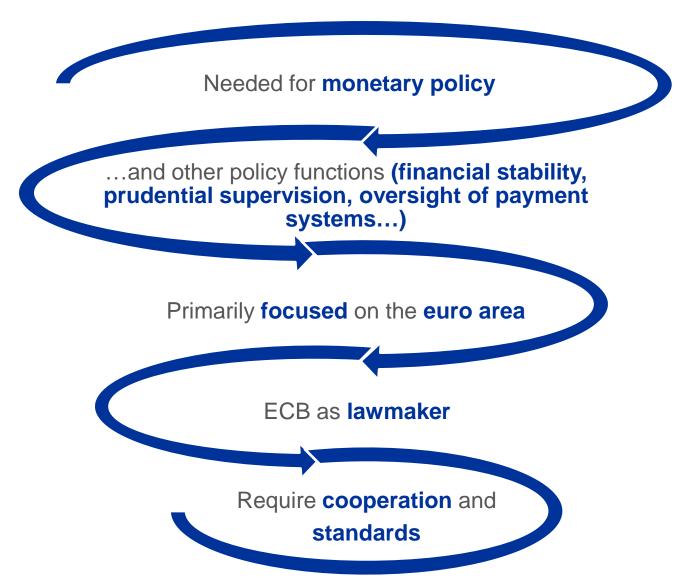
All view expressed are those of the speaker and not necessarily those of the ECB.

Outline

- 1 Policy relevance of central bank statistics
- 2 Framework for European statistics
- 3 E(S)CB statistics and cooperation
- 4 Data developments
- 5 Challenges
- 6 Concluding remarks

1. Policy relevance of central bank statistics (1/2)

ESCB statistics...



1. Policy relevance of central bank statistics (2/2)

Statistical support to the **Single Supervisory Mechanism** (SSM)



Statistical support to the **European Systemic Risk Board** (ESRB)



ESCB contributes to **G-20 initiatives** to close global data gaps



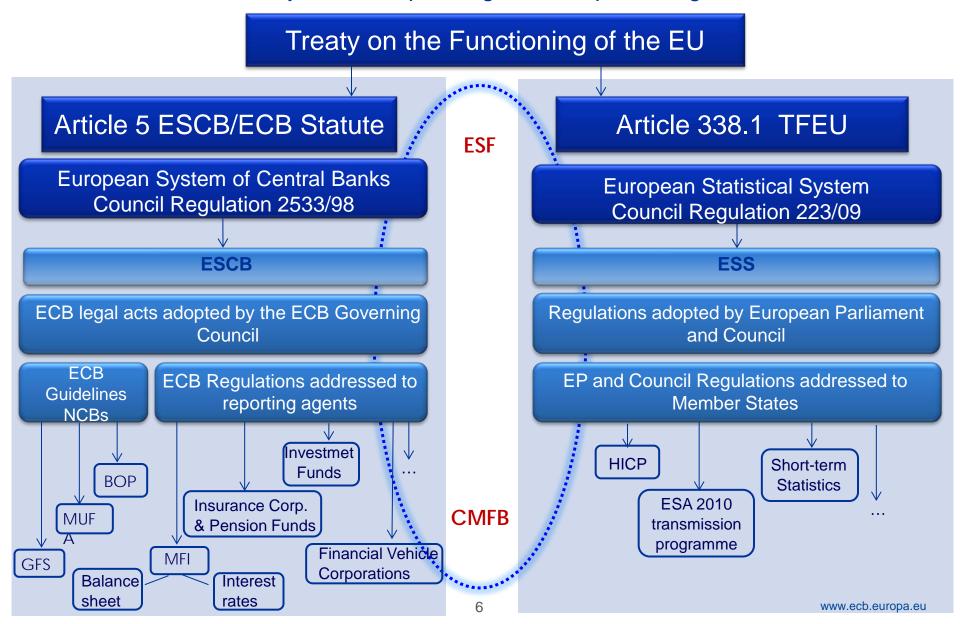
ESCB statistics are also a public good



- 1 Increased policy relevance of central bank statistics
- **2** Framework for European statistics
- 3 E(S)CB statistics and cooperation
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2. Framework for European statistics (1/4)

Two statistical systems cooperating under separate legal frameworks



2. Framework for European statistics (2/4)

European System of Central Banks (ESCB) / Eurosystem

EU National Central Banks



Statistics Committee (STC)

Responsibility:

- Monetary and Financial statistics
- Quarterly financial accounts
- Financial stability statictics
- Supervisory statistics

Memorandum of Understanding

European Statistical Forum (ESF)



Committee for Monetary, Financial and Balance of Payments Statistics CMFB

Shared responsibilities
Balance of Payments
European Sector Accounts
Statistical Infrastructure

European Statistiscal System (ESS)



EU National Statistical Institutes

European Statistical

Responsibilityee

- General economic statistics
- Non-economic statistics

www.ecb.europa.eu

2. Framework for European statistics (3/4)

Legal Framework of ECB Statistics



2. Framework for European statistics (4/4)

Principles governing International Statistical Activities

UN Fundamental Principles of Official Statistics



IMF Data Quality Assessment Framework



Statistics Quality Framework



ECB Statistics Quality **Framework**



Code of Practice

reports

Statistical processes

Principle 7: Sound methodology

Principle 8: Appropriate statistical procedures

Principle 9: Minimisation of the reporting burden

Principle 10: Cost-effectiveness

Merits and

Costs **Procedure**

Quality

Institutional environment:

Principle 1: Professional independence

Principle 2: Mandate for data collection

Principle 3: Adequacy of resources

Principle 4: Commitment to quality

Principle 5: Statistical confidentiality

Principle 6: Impartiality and objectivity

High output quality

Principle 11: Relevance

Principle 12: Accuracy and reliability (including stability)

Principle 13: Timeliness (including punctuality)

Principle 14: Consistency and comparability

Principle 15: Accessibility and clarity

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3. E(S)CB statistics and cooperation (1/3)

E(S)CB is a big producer and a big user of statistics

own produced statistics
 Monetary and financial statistics
 Quarterly euro area accounts
 Other statistics

Other statistics

- European statistics produced by Eurostat and the national statistical offices (e.g. GDP, HICP, labour market and short-term business statistics)
- Principal Global Indicators (BIS, ECB, Eurostat, IMF, OECD, WB)
- Commercial data providers and market sources

3. E(S)CB statistics and cooperation (2/3)

International cooperation

- The ECB cooperates closely with Eurostat, the three European Supervisory Authorities EBA, EIOPA and ESMA the national authorities and reporting agents and with other international institutions, such as BIS, IMF, OECD, UN, ...
- The ECB DG-S and Commission/Eurostat are members of the Inter-Agency Group on Economic and Financial Statistics (IAG)













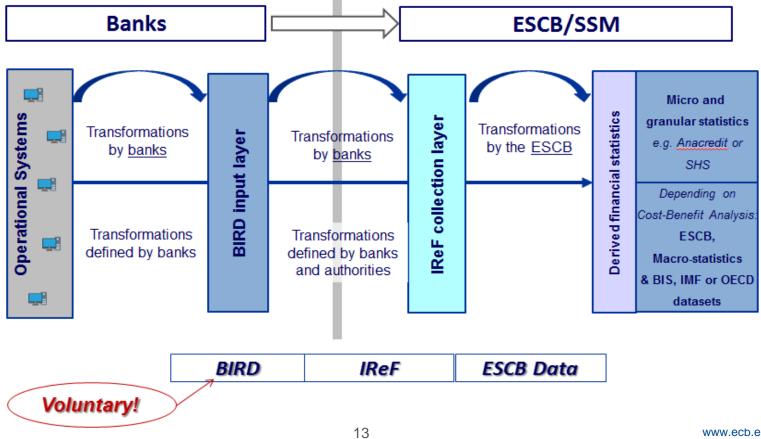


 Dialogue with the banking industry and participation in high level international forums to promote ESCB leadership on statistical and supervisory standards.

3. E(S)CB statistics and cooperation (3/3)

ESCB strategy to keep supporting policy making while minimising the reporting burden for banks

- Engaging in a regular dialogue with the banking industry (link)
- Standardising and integrating existing frameworks for banks' reporting across domains and across countries



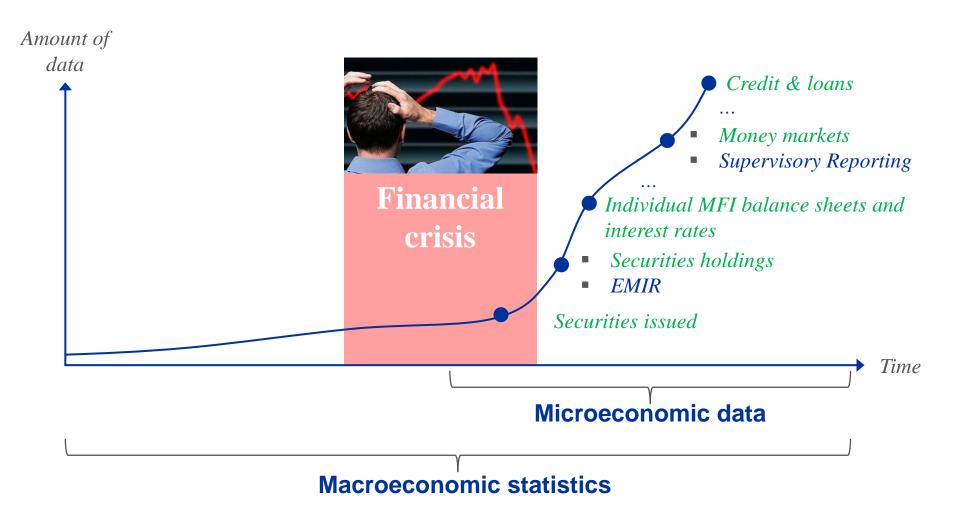
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4. Data developments (1/6)

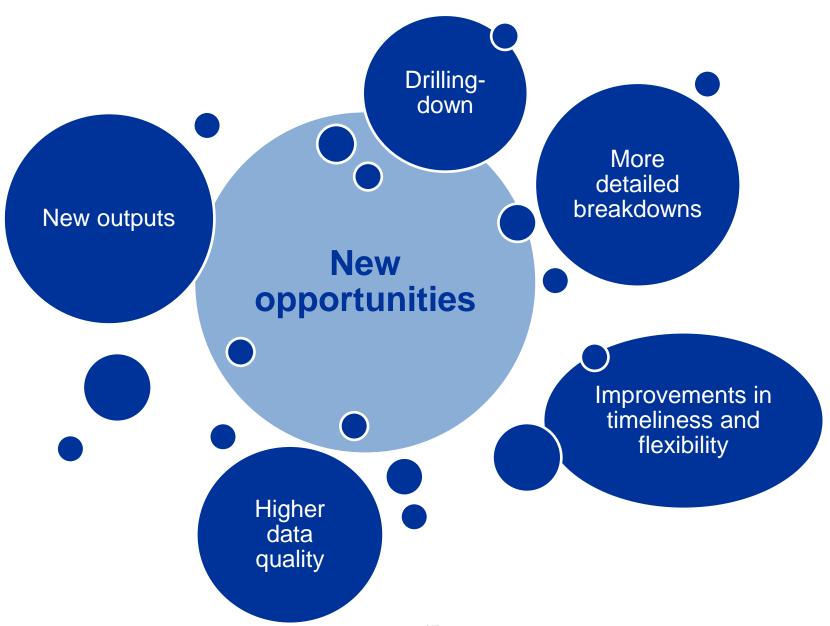


4. Data developments (2/6)

Exponentially increasing volume of data



4. Data developments (3/6)



4. Data developments: RIAD, AnaCredit, CSDB&SHSDB (4/6)

An example:



Multipurpose set of harmonised granular data on credit and credit risk covering exposures of euro area credit institutions vis-à-vis non-financial corporations and other legal entities



CSDB: central multi-source database covering reference information on individual securities and ratings

SHSDB: central database covering information on holdings of securities at granular level by country/sector and banking groups

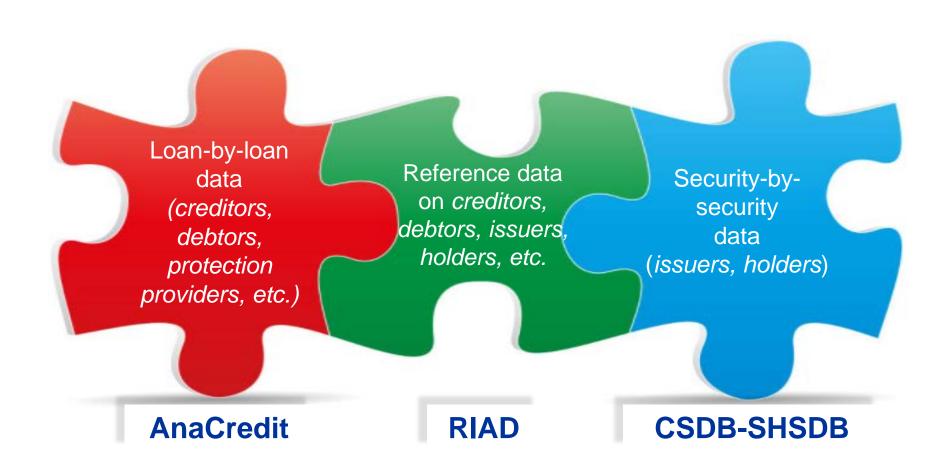


RIAD: ESCB shared dataset of reference data on individual entities and the relationship between them.

- it facilitates the integration of the CSDB, the SHSDB and AnaCredit and other datasets
- a very important source of information for the users → e.g. it enables the ESCB to derive, inter alia, consolidated banking exposures and borrowers' indebtedness on a consolidated basis

4. Data developments: interoperability of micro-datasets (5/6)

An example:



4. Data developments: interoperability of micro-datasets (6/6)

An example:

Centralised Securities Database (CSDB)

Who issues what?

Securities Holdings Statistics
Database (SHSDB)

Who holds what?

Example:

Issuer A issues a security B which is held by Holder C at the amount of X EUR

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Issuer reference data	Instrument reference data	Holder reference data	Holding data
Issuer identifier	Instr. Identifier	Sector	Holding amount
Issuer name	Instrument type	Country	Amount type
Issuer sector	Amount outstanding		Valuation type
Issuer country	Price		Consolidation flag

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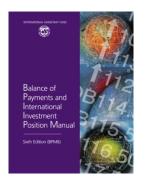
5. Key challenges for ESCB statistics (1/4)

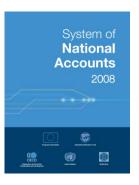
- Keep statistics fit for purpose in view of changing economic and financial environment and increasing complexity
- Continue to produce high-quality statistics as an ESCB team effort in close cooperation of relevant parties, managing the increase of granular information
- Balance between merits of new statistics and costs of reporting and production
- Deal with high-volumes of structured and unstructured data ensuring
 - → Consistency of concepts and definitions across domains (e.g. granular securities and loans data) and reconciliation with existing data sources and bridging conceptual differences (e.g. BSI and AnaCredit)
 - → Interoperability: possibility to combine granular information from different frameworks (e.g. securities, loans to assess total exposures) → use of reference and metadata, identifiers and registers
 - → Overall *efficiency* in data management
- Ensure that data confidentiality is maintained, with appropriate level of data access and sharing

5. Key challenges for ESCB statistics (2/4)

Standardisation

ECB has an active and influential role on on-going developments







Links between **international statistical standards** (SNA, IMF BOPM, etc.) and **ISO data standards** (LEI, UTI, UPI, ISIN, CFI, etc.) need to be assessed and strengthened

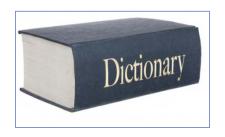
International cooperation and effort needed

5. Key challenges for ESCB statistics (3/4)

Integration

Increasing need for integrated and inter-linked statistical frameworks with higher complexity of technical and methodological issues

Three key elements:



Banks' Integrated Reporting Dictionary (BIRD)

- Common language with the industry
- Logical description of data at the banks and transformation rules to produce existing reports



ECB Single Data Dictionary (SDD)

- Common language within the ECB
- Methodological and semantic integration of existing European reporting frameworks



Integrated Reporting Framework (IReF)

- "One report" replacing the multiple, overlapping reports
- Focus on ESCB statistical requirements

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6. Concluding remarks

1 Challenges to meet users needs are always present in a dynamic world

To conclude...

Advancements in technology provide an opportunity to be more agile in responding to data needs

Standardisation efforts, European and international cooperation are crucial to make it work

Thanks you for your attention



Questions?

Annex

Annex I - ECB's statistical datasets

- Monetary developments in the euro area (<u>ECB website</u>)
- Euro area securities issues statistics (<u>ECB website</u>)
- Euro area balance of payments (<u>ECB website</u>)
- Euro area economic and financial developments by institutional sector (<u>ECB</u> website)
- Euro area investment fund statistics (<u>ECB website</u>)
- Euro area insurance corporation and pension fund statistics (<u>ECB website</u>)
- Euro area insurance corporation statistics (<u>ECB website</u>)
- Euro area financial vehicle corporation statistics (<u>ECB website</u>)
- Euro area bank interest rate statistics (<u>ECB website</u>)
- Euro money market statistics (<u>ECB website</u>)
- Payment instruments and systems (<u>ECB website</u>)

Annex II - Communication

How to access ECB statistics?

- ECB website
 - Press releases
 - Interactive graphics
 - Publications



Statistical Data Warehouse: http://sdw.ecb.europa.eu



- "Our statistics" website: https://www.euro-area-statistics.org/
- New ECB statistical tablet app

