

IFC Satellite Seminar on "Post-crisis data landscape: micro data for the macro world", co-organised with the Central Bank of Malaysia and the European Central Bank

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## OeNB's reporting data model as RegTech/SupTech solution<sup>1</sup>

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<sup>1</sup> This presentation was prepared for the meeting. The views expressed are those of the author and do not necessarily reflect the views of the BIS, the IFC or the central banks and other institutions represented at the meeting.

# OeNB's reporting data model as RegTech/SupTech solution

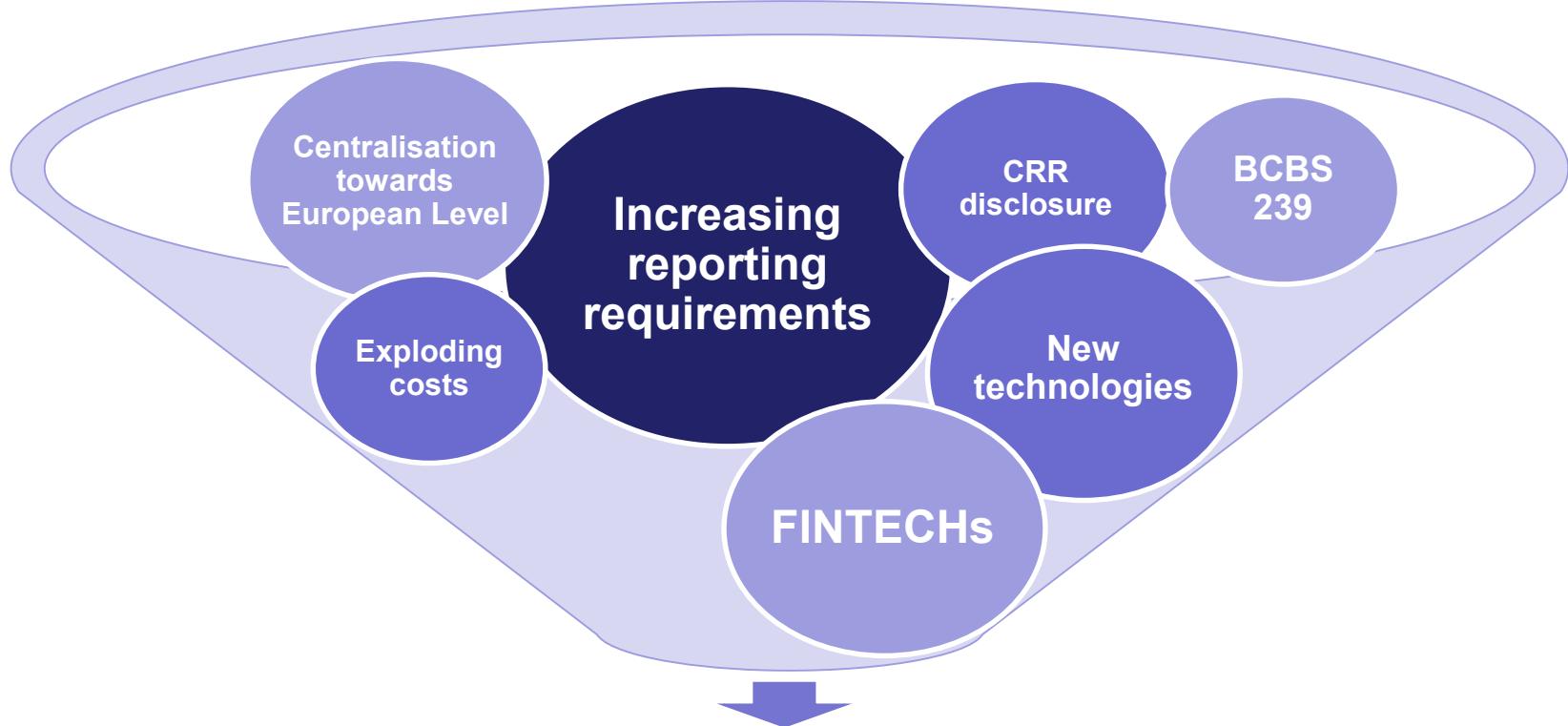
IFC-BNM-ECB Satellite on "Post-crisis data landscape: micro data for the macro world"

August, 16, Sasana Kijang, Bank Negara Malaysia

Johannes Turner, Director Statistics Department

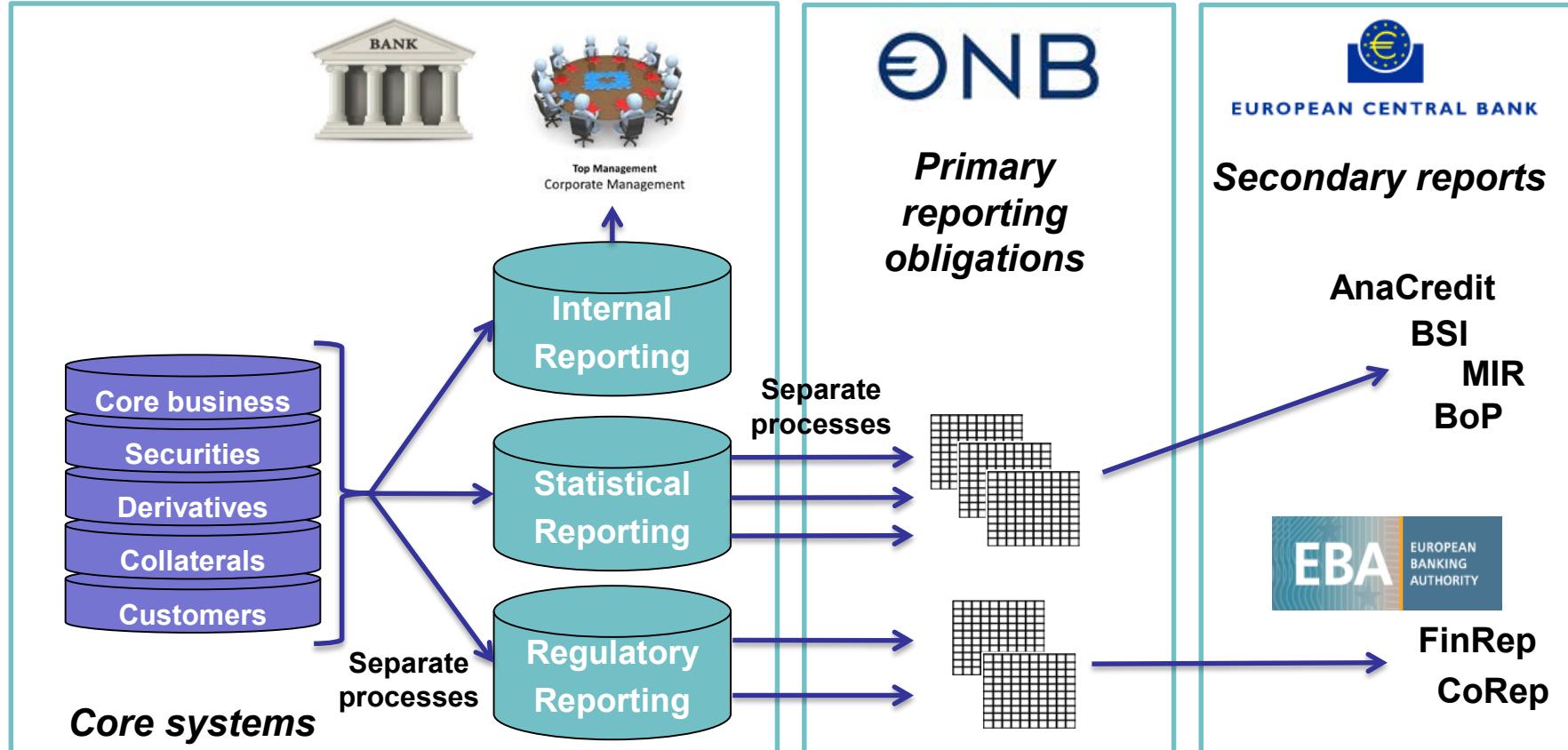


# Challenges in banks' reporting

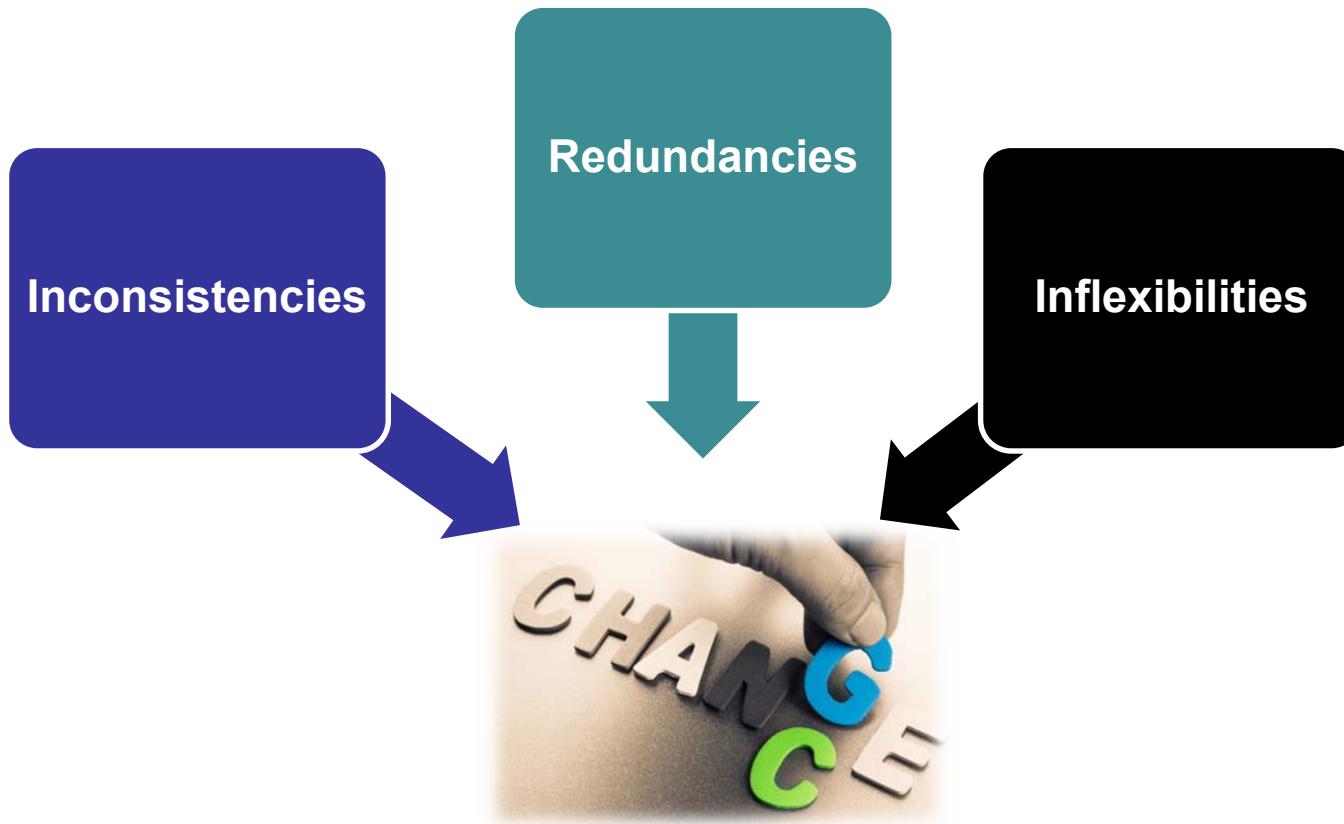


## Are (central) banks well prepared?

# Traditional processes of banks' reports ...



... often lead to ...



## The RegTech/SupTech perspective



“A combination of technologies and **innovative processes** are deployed to modernize data gathering and data analytics”

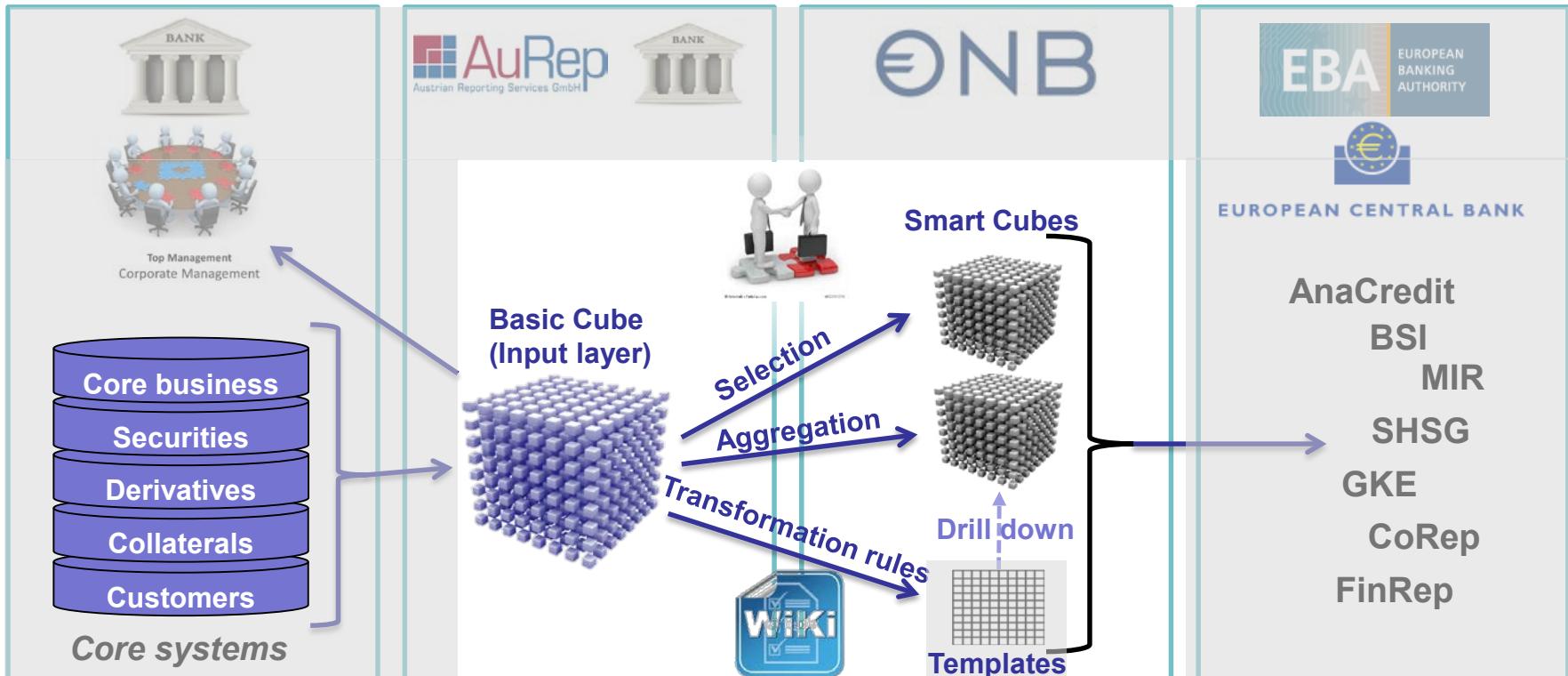


“It helps supervisory agencies **digitise reporting** and regulatory processes. Suptech could be a **game-changer** in efficient reporting”



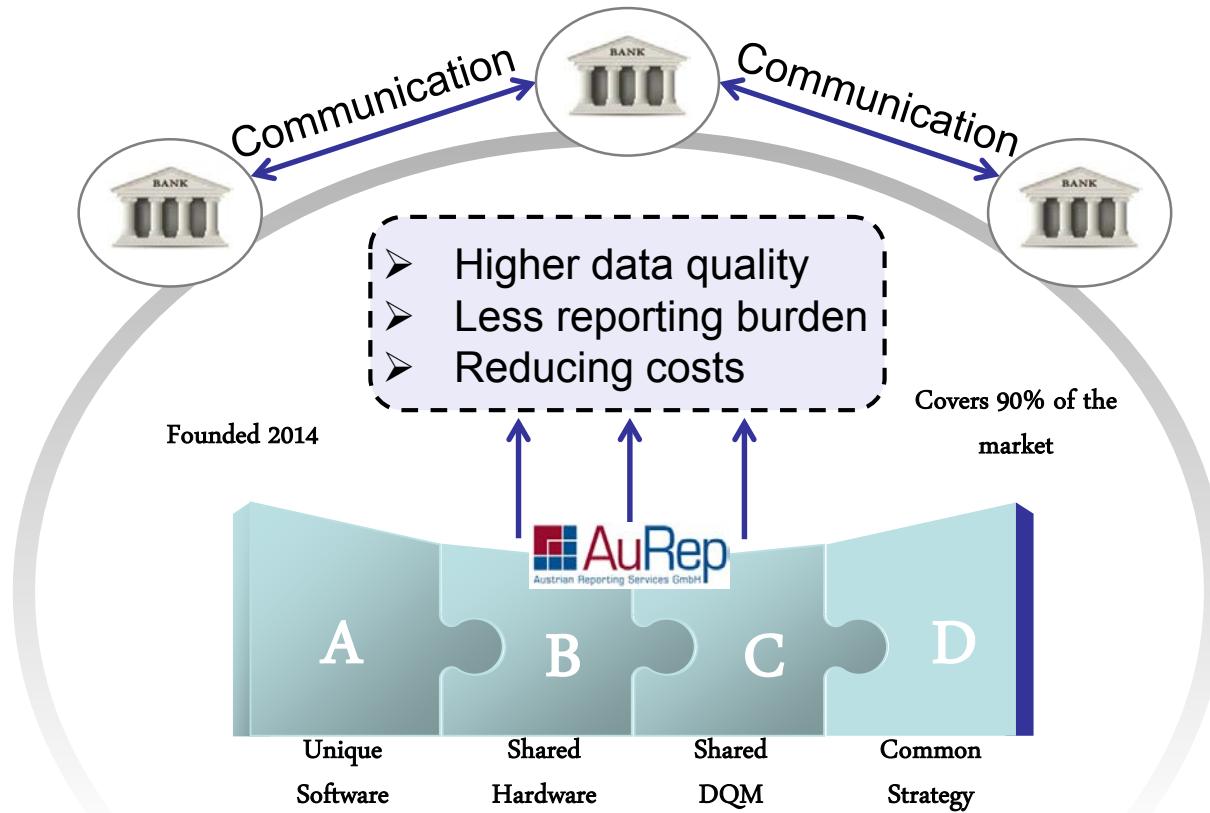
“RegTech/Suptech could have significant **organisational impact**”

# Make reporting more efficient ...



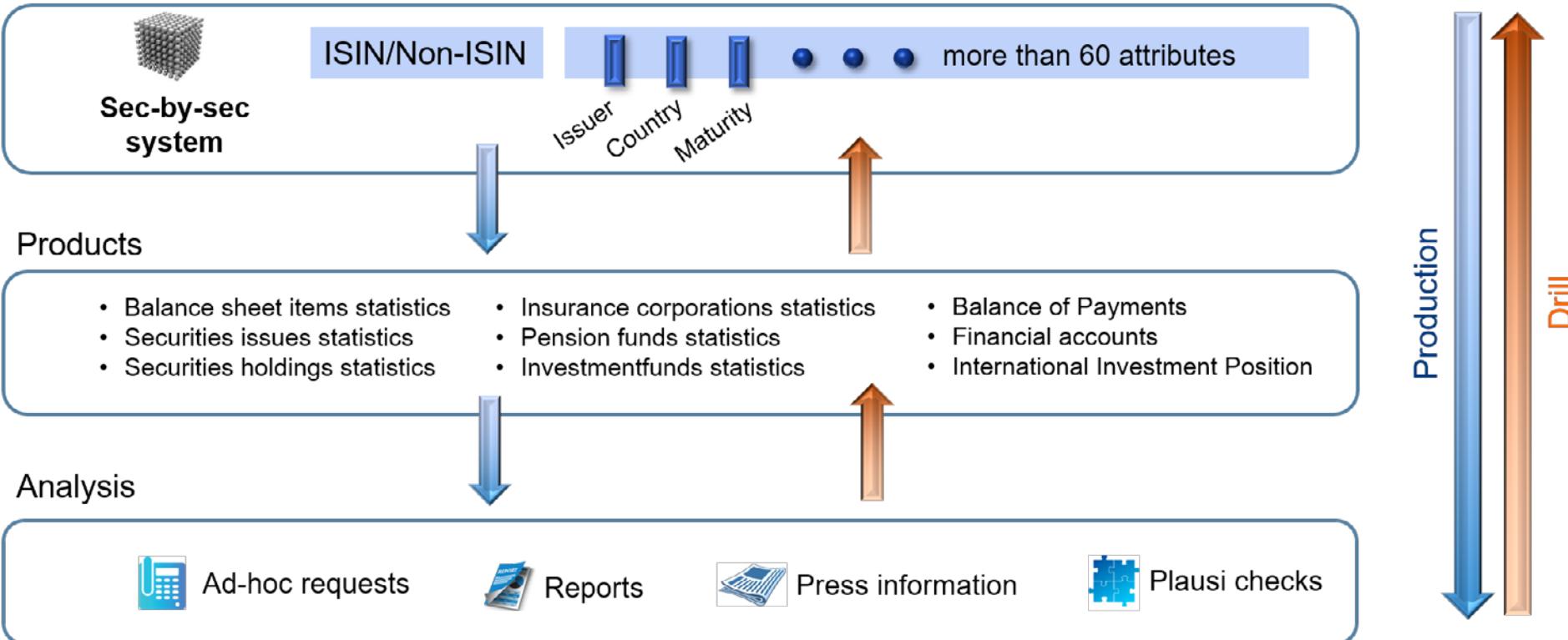
... by using an integrated reporting process

## Realise synergies and reduce costs

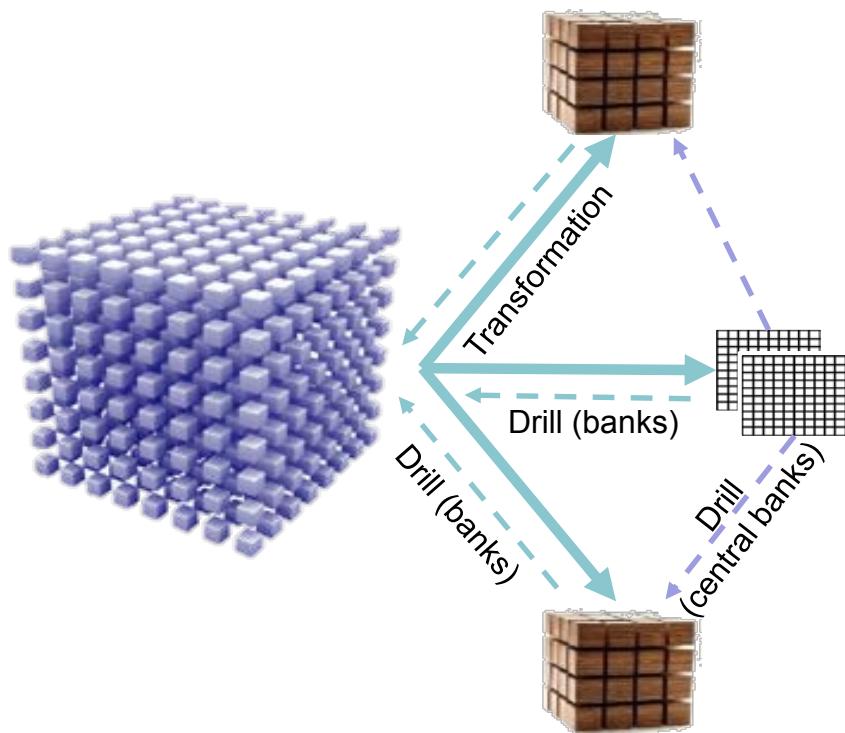


# Use granular data for aggregation and drills

Security-by-security information based on a long term experience since 1991



# Apply advanced drill downs for DQM and analytics



- Reverse engineering of transformation rules from basic cube to reports allows
  - drills within banks (e.g. from reports to basic cube) and
  - in the central bank (between reports in different granularity, e.g. FinRep to AnaCredit/ SHSG), and
  - timely replies to ad hoc requests
- Drills show cross linking,
- Foster understanding, and
- Minimise enquiries from authorities



## Linking different levels of aggregation

Aggregated view

Sectoral view

Consolidated view

Solo view

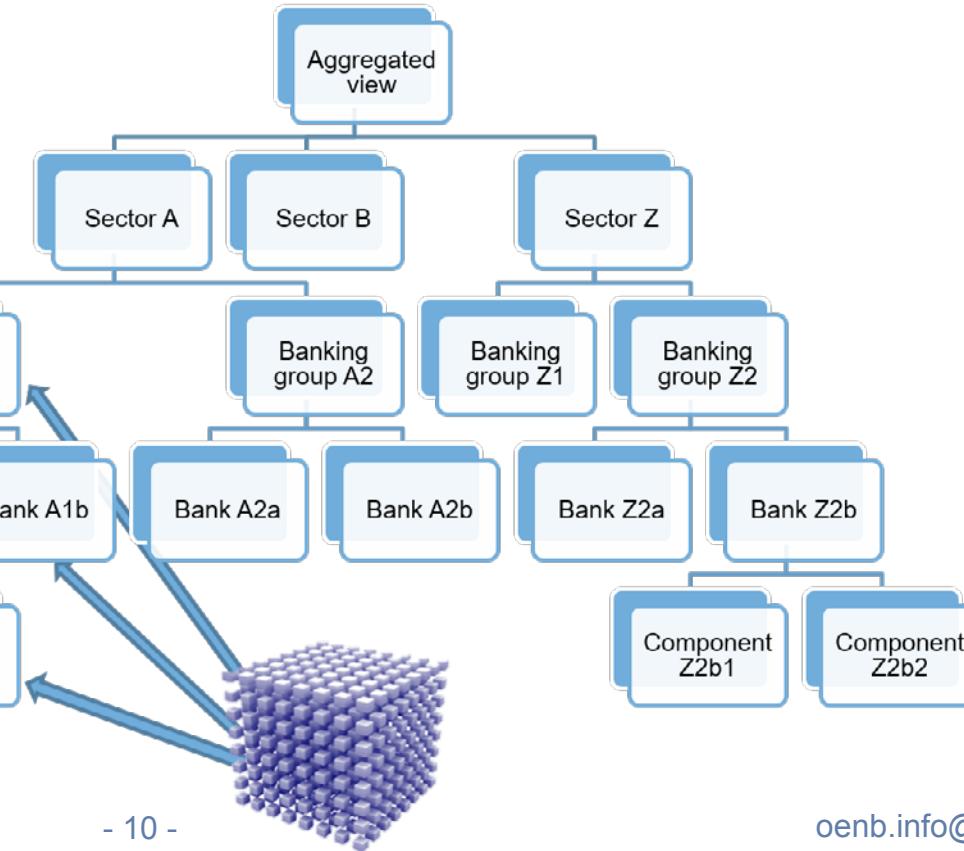
Component drill

e.g. FinRep cons.

e.g. FinRep solo

e.g. SHS(G)

e.g. AnaCredit





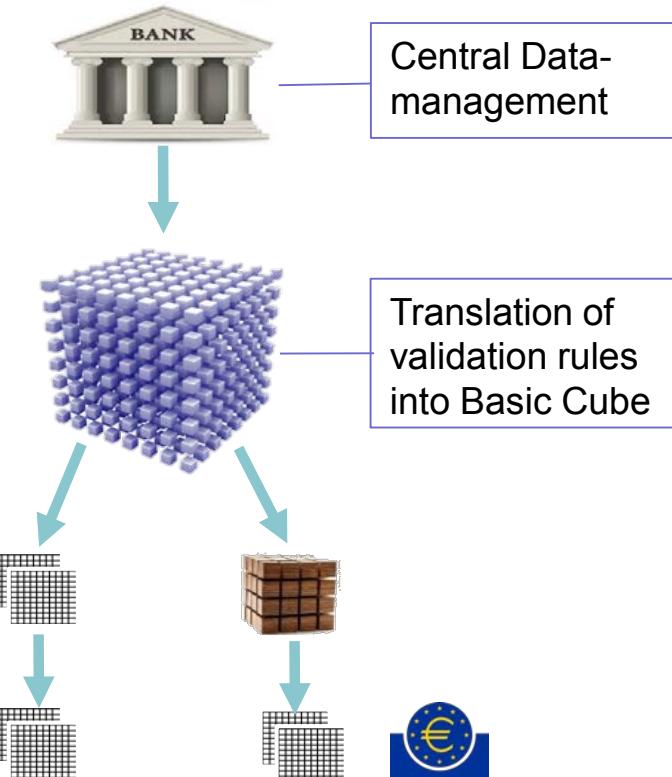
## Do data quality management at the basis

€NB

AuRep  
Austrian Reporting Services GmbH

€NB

EBA  
EUROPEAN BANKING AUTHORITY



- Validation at Basic Cube level has positive affects at all other levels
- OeNB's/ECB's/EBA's DQM reduced
- Basis for passive data concept
- Need for machine-to-machine communication

Development of validation rules by  
➤ OeNB, AuRep, banks in cooperation

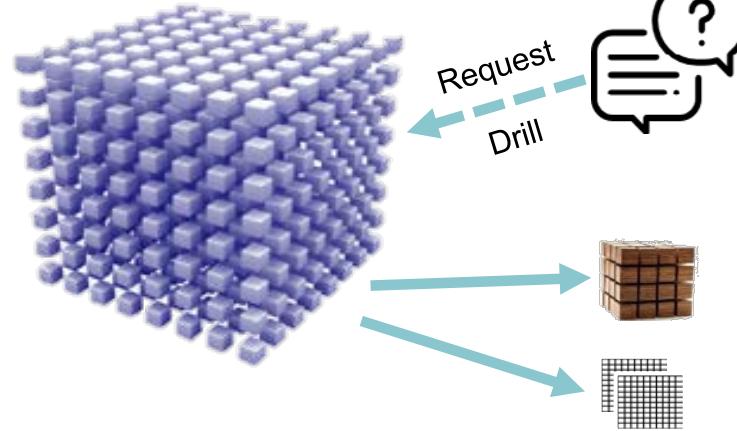




## Passive data concept - the future of reporting?



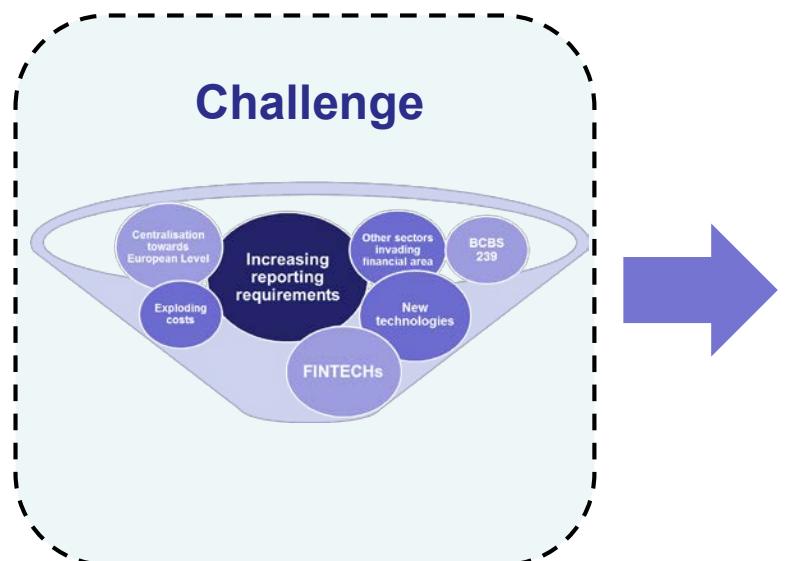
### Basic Cube – quality assured standard



OENB

- Specific drills/data requests only when needed (e.g. onsite inspection)
  - via standardised language
  - e.g. use of APIs
- 
- Reduced set on regular transmissions
  - Especially for time series analysis (e.g. economics, financial stability) and key indicators

# Conclusions



## Solution

= Austrian integrated reporting data model

- represents a **paradigm shift** in regulatory and statistical data remittance.
- fosters two-way **understanding** and **transparency**.
- offers new ways in **DQM** and **data analytics**
- Leads to
  - higher **consistency** and **data quality**,
  - **less redundant** data deliveries,
  - higher **flexibility**, and
  - **expected lower costs**.