

# How to fulfill all demands for quality reporting

Session 17: Quality reporting

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### Different demands for metadata

#### ...from different users

#### National

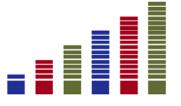
- Government/public officials
- Researcher/Academia
- Journalists/public
- Businesses
- Others

#### International

- EU
- IMF
- Others

#### Different metadata

- Quality reports
- Documentation of variables
- Concepts
- Classifications
- Other metadata





### Metadata in Statistics Denmark

Dedicated work for an integrated metadata system since 2009

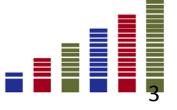
EU grant to implement Colectica and update quality reporting (completed in 2014)

Based on international standards

- Colectica is based on DDI (Data Documentation Initiative)
- Quality reporting is based on SIMS (Single Integrated Metadata Structure)

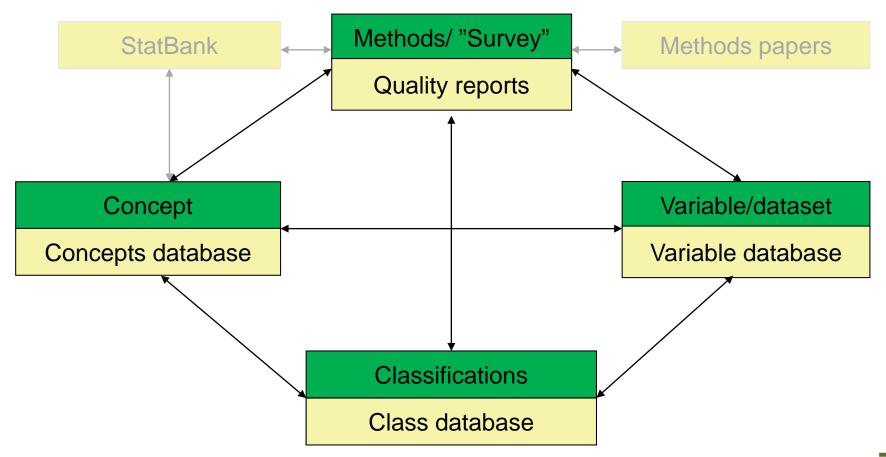
The idea is - in one product - to cover all users (national, international, EU)

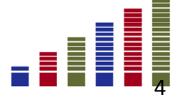
Quality reports are prepared in Danish and English





### Integration of metadata







### Challenges on fulfilling user-needs

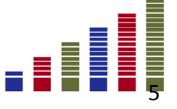
#### ...in a cost-effective way

#### The work-processes and metadata

- Fragmented and non-standardised
- Metadata linked to final data and no reuse
- The presentation of metadata was fragmented and incomplete
- Concepts database was incomplete
- Classifications and code-lists were stored many places

#### Introduction of standards

- Generic statistical business Process Model (GSBPM)
- SIMS, SDMX (ESQRS and ESMS) from Eurostat
- DDI and DDI-tools to ensure integrated metadata





### Integrating and harmonising

#### Once for all purposes reporting

• Each concept is only reported upon once and is re-usable

#### Integrated and consistent quality and metadata

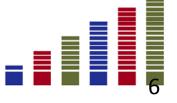
 Reporting framework where the reports are stored in the same database

### A flexible and up to date system

• Where future extensions are possible by adding new concepts,

### Single Integrated Metadata Structure" (SIMS)

- Inventory of ESS quality and metadata statistical concepts has been created
- SIMS integrates and streamlines the statistical concepts of the two ESS reporting structures (ESMS and ESQRS), by assuring that all concepts appear and are therefore reported upon only once



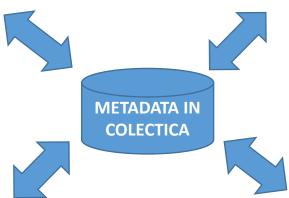


#### **Enter SIMS fields**



#### Publish at www.dst.dk



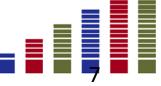


#### Send Quality report to EU



Publish at the Intranet

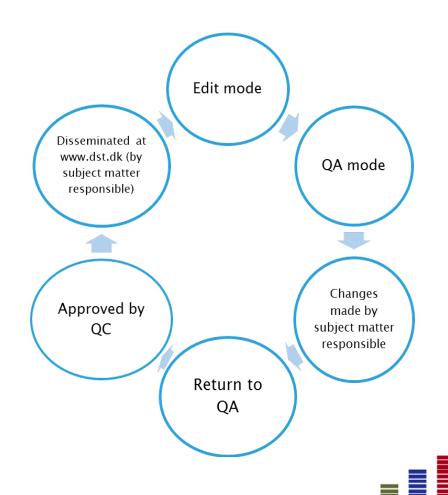






### The process of quality reporting

Systematic quality assurance of content Update with every new release of data
Archive with reports



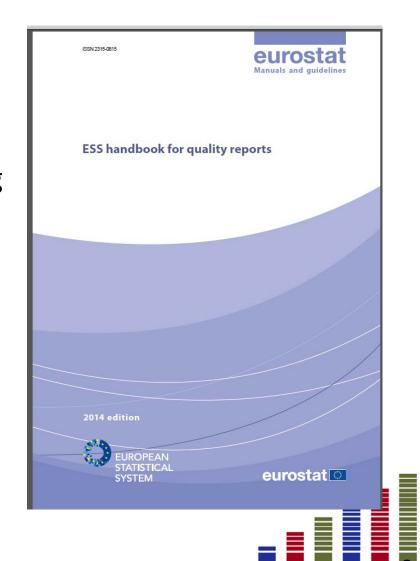


### ESS handbook for quality reports

Contains SIMS in an annex

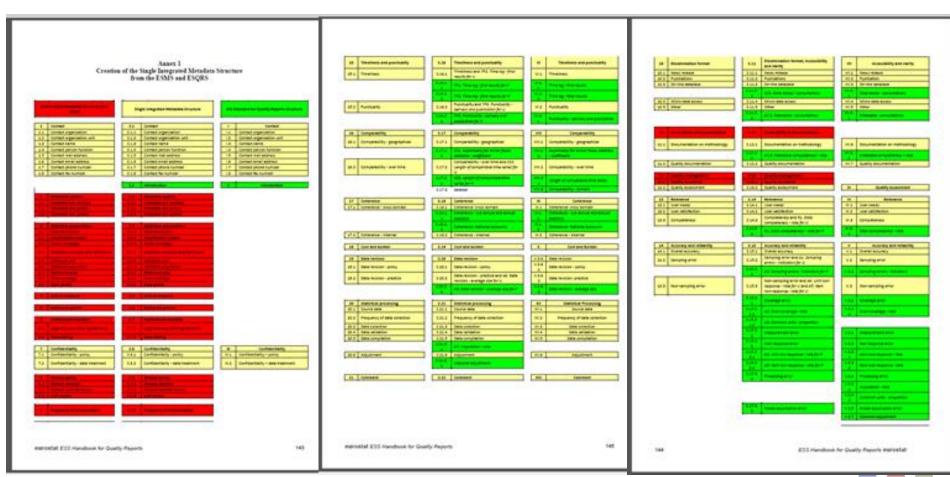
Guidelines for preparing detailed quality reports

Is used as basis for quality reporting in Statistics Denmark





### ESMS, SIMS, ESQRS





### Outputs from Colectica in SD

#### Dissemination – www.dst.dk

• Does not contain all SIMS fields. Two layers. The first layer is the "front page fields" with an overview e.g. Statistical processing. The second layer is more details e.g. Source data and data validation.

#### SIMS

Contains all SIMS fields

#### **GSBPM**

• Contains all SIMS fields, but is arranged according to GSBPM. E.g. Relevance will be found in the needs phase and Accuracy and reliability will be found in the Analysis phase.

#### **ESMS**

· Contains all ESMS fields

#### **ESQRS**

Contains all ESQRS fields

#### **MIP**

 Gives the SIMS fields that are in the MIP quality template. The institutional fields in the template are prefilled.

#### All reports can be opened in Word or Excel

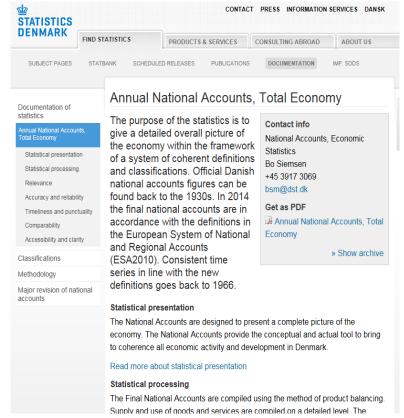




### Quality report on www.dst.dk

# Documentation of statistics User oriented SIMS fields Two layers:

- "Front page fields" give overview
- More details in second layer



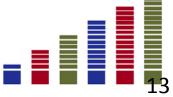




### Reporting to Eurostat

## Automatic transfer of metadata to ESS metadata handler.







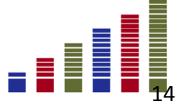
### Reports for NA to EU

#### In connection with MIP

- Inventory
- Quality report

#### National and regional accounts

- Prefilled by Eurostat
- Comments by member states



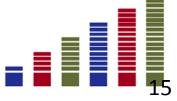


### Inventory template - MIP

Follows SIMS – to some extent New details e.g.

- S21.1
- S21.2
- S21.3
- Etc.



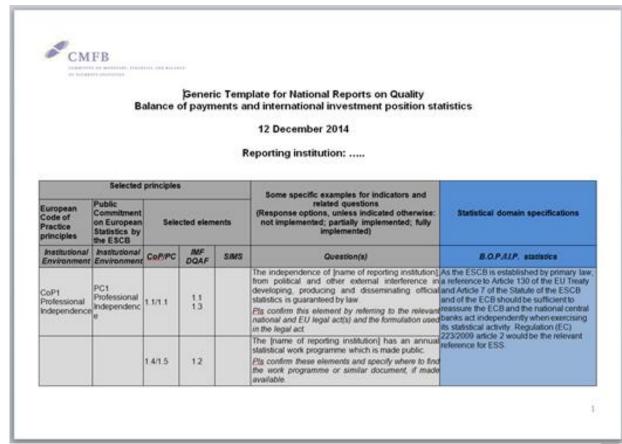




# Generic template for national reports on quality MIP

Mapped to SIMS and IMF DQAF

Made in cooperation with central banks





### Quality report on NA and RA

## Follows to some extent SIMS Common report for:

- Annual NA
- Quarterly NA
- Government finance statistics
- Non-financial sector accounts
- Supply-use, Input-output
- Regional accounts





**MEMBER STATE: XX** 

PREFILLED BY EUROSTAT: SEPTEMBER 2015

DATA AS DELIVERED BY MEMBER STATES BETWEEN OCT 2014 – SEP 2015





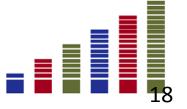
### Challenges

#### Comments connected to single figures

• E.g. how many revisions made – is perhaps not something that will be submitted in S20.1 or S20.2 with an explanation because these fields ask for revision policy and revision practice.

Comments for many areas at the same time
In Colectica there is one Quality report for each of the areas:

- Annual NA
- Quarterly NA
- Government finance statistics
- Etc.





### Thank you for your attention!

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