Output documentation

Component A: Quality Management of Official Statistics Activity A.7: Integrating the elements for quality management in the ICBS

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Output documentation

Topics from ToR:

- Practical implementation of workflow
 - Supporting standards
 - At what level are metadata produced
 - Linkage to the component of the output documentation
- Internal and external users
- Integrations with other standards







Supporting standard

- New system for quality reporting in 2015
 - From October 2015 Documentation of statistics
 - Colectica DDI
 - GSIM
 - SIMS

EUR	O-SDMX Metadata Structure (Dec 2010)	Sing	gle Integrated Metadata Structure	ESS S	itandard for Quality Reports Structure
1	Contact	S.1	Contact	I	Contact
		S.2	Introduction		Introduction
2	Metadata update	S.3	Metadata update		
3	Statistical presentation	S.4	Statistical presentation		
4	Unit of measure	S.5	Unit of measure		
5	Reference period	S.6	Reference period		
6	Institutional mandate	S.7	Institutional mandate		
7	Confidentiality	S.8	Confidentiality	XI	Confidentiality
8	Release policy	S.9	Release policy		
9	Frequency of dissemination	S.10	Frequency of dissemination		
10	Dissemination format	S.11	Dissemination format, Accessibility and clarity	VII	Accessibility and clarity
11	Accessibility of documentation	5.12	Accessibility of documentation		
12	Quality management	5.13	Quality management		
12.1	Quality assurance	S.13.1	Quality assurance		
12.2	Quality assessment	S.13.2	Quality assessment	- 111	Quality assessment
13	Relevance	S.14	Relevance	IV	Relevance
14	Accuracy and reliability	S.15	Accuracy and reliability	v	Accuracy and reliability
15	Timeliness and punctuality	S.16	Timeliness and punctuality	VI	Timeliness and punctuality
16	Comparability	S.17	Comparability	VIII	Comparability
17	Coherence	S.18	Coherence	IX	Coherence
18	Cost and burden	S.19	Cost and burden	х	Cost and Burden
19	Data revision	S.20	Data revision	V.3.6	Data revision
20	Statistical processing	S.21	Statistical processing	XII	Statistical Processing
21	Comment	S.22	Comment	XIII	Comment





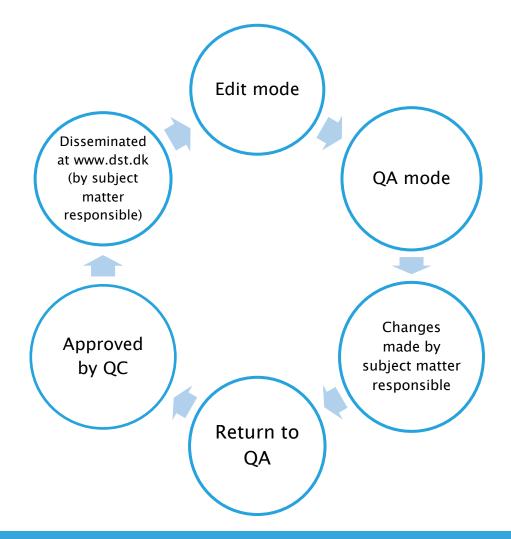


Documentation of statistics

- Cycle:
 - Every new dissemination of statistics followed by an updated documentation of statistics
 - Send to Quality Assurance
 - QA reads and comments
 - Subject matter responsible updates new QA
 - Ready for dissemination

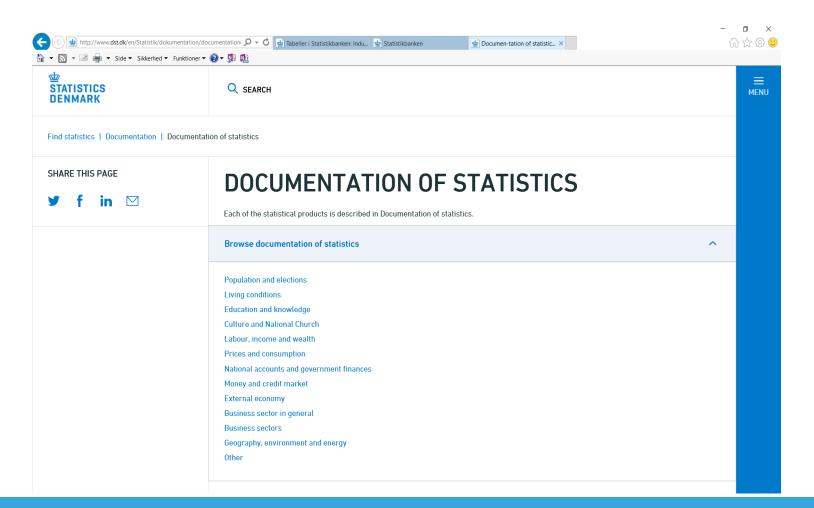


Cycle for Documentation of statistics





Metadata in subject structure – level 1



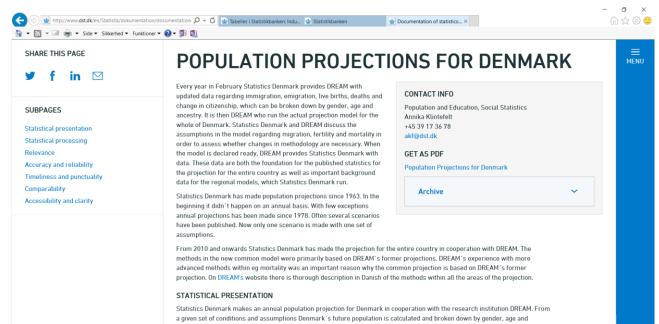


Subject structure level 2

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Find statistics Documentation Doc	cumentation of statistics	
SHARE THIS PAGE	DOCUMENTATION OF STATISTICS Each of the statistical products is described in Documentation of statistics.	
	Browse documentation of statistics	~
	POPULATION AND ELECTIONS	
	Population and population projections	^
	Population Projections for Denmark Urban Areas The Population	
	Immigrants and their descendants	~
	Births	~



Subject structure level 3



ancestry. Based on the projection for the entire country Statistics Denmark makes a regional projection which can be broken down by

gender, age, province and municipality. The projection by provinces and municipalities are not broken down by ancestry.

As a part of the projection, results are also available regarding changes in population concerning live births, deaths, immigration and emigration

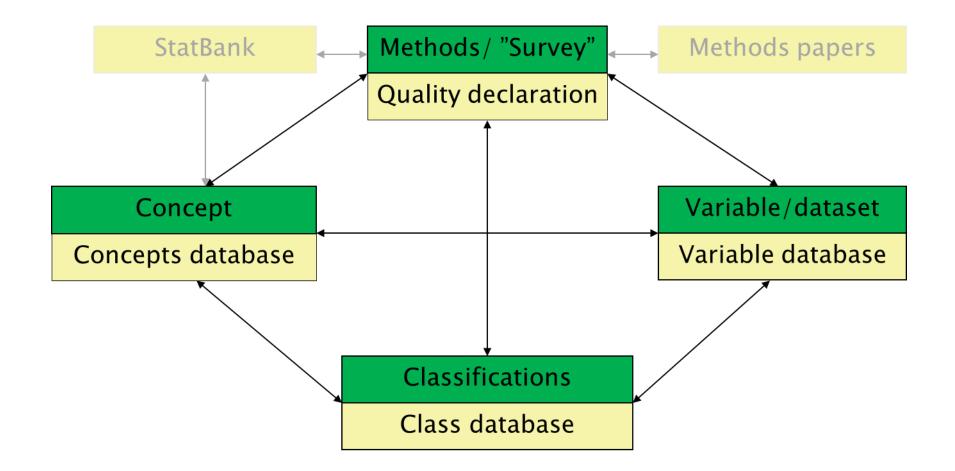


Subject structure

- Documentation of statistics is done at our level 3 in our subject structure.
- In most cases the level 3 subject is equal to the title of the documentation of statistics.
- In a few cases there will be more than one documentation of statistics at one subject level 3
- In a few cases there will be one documentation of statistics linking to more than one level 3 subject

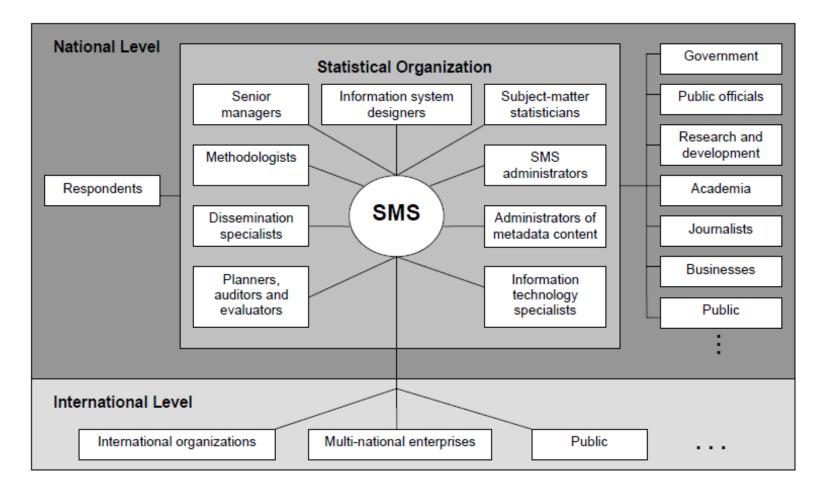


Linkage in output documentation

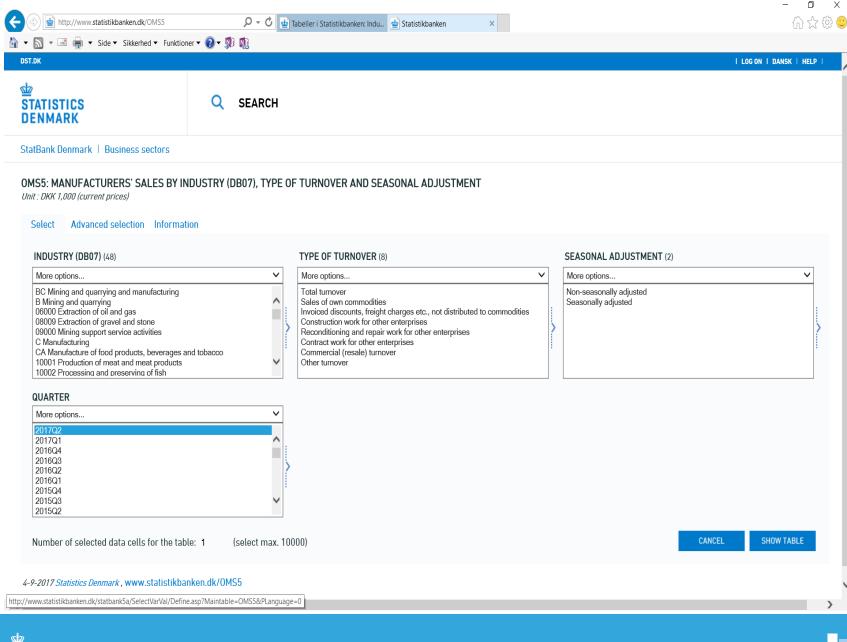




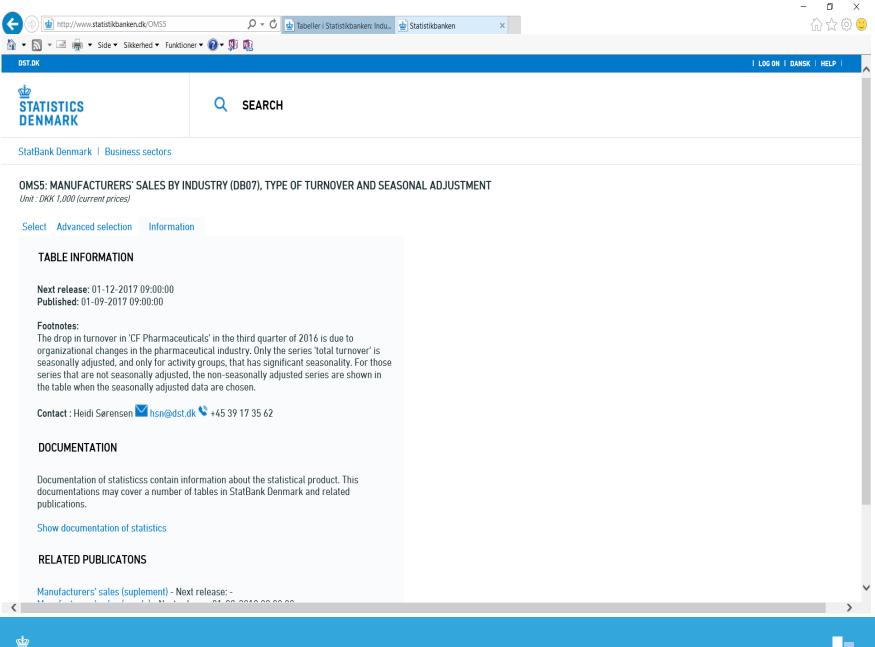
Metadata users







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Find statistics | Documentation | Documentation of statistics | Manufacturers' Sales of Goods

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SUBPAGES

Statistical presentation

Statistical processing

Relevance

Accuracy and reliability

Timeliness and punctuality

Comparability

Accessibility and clarity

MANUFACTURERS' SALES OF GOODS

The purpose of the statistics is to describe the Danish industrial production by detailed type of goods. Manufacturers' sales of goods is the source for Danish Prodcom statistics, regulated by and submitted to Eurostat.

STATISTICAL PRESENTATION

The statistics describe manufacturers' sales of goods measured in terms of volume and value by detailed types of goods according to the international classifications CN and SITC. In addition to this, total sales (turnover) are distributed by industries (NACE groups).

Read more about statistical presentation

STATISTICAL PROCESSING

Data are collected through a quarterly survey of all enterprises in

manufacturing (including mining and quarrying) with at least 10 employees, approx. 3,000 units. Reported data are validated, by checking against previous reports as well as against other sources. Data are then aggregated by industrial groupings as well as commodity groups. Series with seasonality are seasonally adjusted.

Read more about statistical processing

RELEVANCE

The statistics are in high demand from many different users, including the National Accounts, ministries, trade associations, market analysts, researchers, consultants and businesses.

CONTACT INFO

Short-Term Statistics, Business Statistics Thomas Eisler +45 39 17 32 49 tme@dst.dk

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Manufacturers' Sales of Goods

Archive



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STATISTICAL PRESENTATION

The statistics describe manufacturers' sales of goods measured in terms of volume and value by detailed types of goods according to the international classifications CN and SITC. In addition to this, total sales (turnover) are distributed by industries (NACE groups).

DATA DESCRIPTION

The statistics describe manufacturers' sales of goods measured in terms of volume and value by detailed types of goods. In addition to this, sales are distributed by industries (NACE groups).

CLASSIFICATION SYSTEM

Goods are classified according to the CN, the Combined Nomenclature and to SITC, 🛓 Standard International Trade Classification.

CONTACT INFO

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Manufacturers' Sales of Goods

For submission to Eurostat, data are converted from CN to Prodcom codes using the key between the two lists of commodities.

Industrial activity is classified according to Dansk Branchekode 2007, which is the Danish national classification based on NACE rev. 2.

SECTOR COVERAGE

Mining and quarrying (NACE B) and manufacturing (NACE C). Exemptions are units in 10.71.20 (national DB07 activity code for bakeries, these are instead included in the retail trade statistics) and in 32.11.00 (NACE 32.11, striking of coins).

STATISTICAL CONCEPTS AND DEFINITIONS

Other turnover: Other turnover is for turnover not related to activities in manufacturing or mining and guarrying. This can be from construction, research and development or renting.

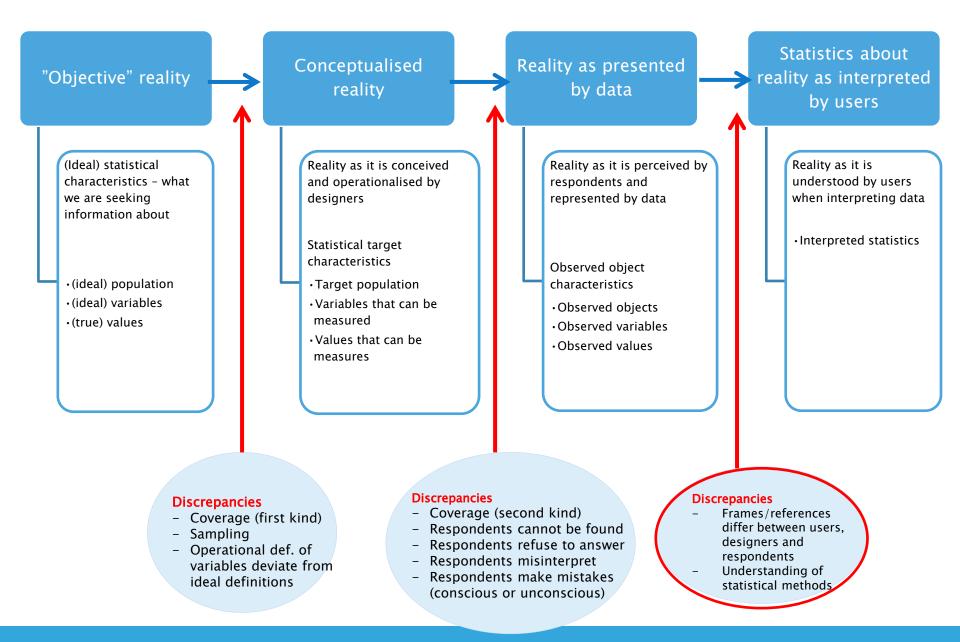
Own goods: The statistics measures sales of own goods, that is goods extracted, produced, processed or assembled by the reporting enterprise. Own goods are also products manufactured by a subcontractor, if the reporting enterprises owns the inputs for the subcontracted manufacturing. Traded goods are not included.

Commercial (resale) turnover: Commercial (resale) turnover is turnover from sales of goods that are bought and sold with any processing. Repackaging does not constitute processing.



Producing statistics

- Producing statistics is about describing phenomena in the society
- Not just anything but some important phenomena in the society – something that some users seek information about
 - Population
 - Education
 - The economy
 - Etc.
- An illustration is given by the Swede Bo Sundgren in Statistical systems: Some fundamentals



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Solution: quality declarations

- Help for the user to understand the statistics giving the user information about the frame we have worked within
- Explain the content of the statistics
 - History
 - Purpose of the statistics
 - Content population, variables etc.
- Quality = Fitness for use
- Quality of contents:
 - Relevance, Accuracy & reliability, Timeliness and punctuality, Coherence & comparability, Accessibility and clearness



SIMS – Single integrated metadata structure

EURO-SDMX Metadata Structure (Dec 2010)

1	Contact
1.1	Contact organisation
1.2	Contact organisation unit
1.3	Contact name
1.4	Contact person function
1.5	Contact mail address
1.6	Contact email address
1.7	Contact phone number
1.8	Contact fax number

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Sing	le Inter	rated	Metac	lata	Structure

ESS Standard for Quality Reports Structure

	-
S.1	Contact
S.1.1	Contact organisation
S.1.2	Contact organisation unit
S.1.3	Contact name
S.1.4	Contact person function
S.1.5	Contact mail address
S.1.6	Contact email address
S.1.7	Contact phone number
S.1.8	Contact fax number

Introduction

6.2

I	Contact
l.1	Contact organisation
1.2	Contact organisation unit
1.3	Contact name
1.4	Contact person function
1.5	Contact mail address
I.6	Contact email address
1.7	Contact phone number
1.8	Contact fax number

Introduction

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2	Metadata update	S.3	Metadata update
2.1	Metadata last certified	S.3.1	Metadata last certified
2.2	Metadata last posted	S.3.2	Metadata last posted
2.3	Metadata last update	S.3.3	Metadata last update
3	Statistical presentation	S.4	Statistical presentation
3.1	Data description	S.4.1	Data description
3.2	Classification system	S.4.2	Classification system
3.3	Sector coverage	S.4.3	Sector coverage
3.4	Statistical concepts and definitions	S.4.4	Statistical concepts and definit
3.5	Statistical unit	S.4.5	Statistical unit

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Content of the Statistical documentation in Denmark (Re-organized SIMS)

1 Introduction (s2):

2 Statistical presentation (s4):

- 2.1 Data description (s4.1):
- 2.2 Classification system (s4.2):
- 2.3 Sector coverage (s4.3):
- 2.4 Statistical concepts and definitions (s4.4):
- 2.5 Statistical unit (s4.5):
- 2.6 Statistical population (s4.6):
- 2.7 Reference area (s4.7):
- 2.8 Time coverage (s4.8):
- 2.9 Base period (s4.9):
- 2.10 Unit of measure (s5):
- 2.11 Reference period (s6):
- 2.12 Frequency of dissemination (s10):
- 2.13 Legal acts and other agreements (s7.1):
- 2.14 Cost and burden (s19):
- 2.15 Comment (s22):

Content of the quality declarations

3 Statistical processing (s21):
3.1 Source data (s21.1):
3.2 Frequency of data collection (s21.2):
3.3 Data collection (s21.3):
3.4 Data validation (s21.4):
3.5 Data compilation (s21.5):
3.6 Adjustment (s21.6):

4 Relevance (s14):

4.1 User Needs (s14.1):4.2 User Satisfaction (s14.2):4.3 Data completeness rate (s14.3):



Contents (cont.)

5 Accuracy and reliability (s15):
5.1 Overall accuracy (s15.1):
5.2 Sampling error (s15.2):
5.3 Non-sampling error
5.4 Quality management (s13):
5.5 Quality assurance (s13.1):
5.6 Quality assessment (s13.2):
5.7 Data revision - policy (s20.1):
5.8 Data revision practice (s20.2):

6 Timeliness and punctuality (s16):

6.1 Timeliness and time lag - final results (s16.1):

6.2 Punctuality (s16.2):



Contents (cont.)

7 Comparability (s17):

7.1 Comparability - geographical (s17.1):7.2 Comparability over time (s17.2):7.3 Coherence - cross domain (s18.1):

7.4 Coherence - internal (s18.2):

8 Accessibility and clarity (s11):

- 8.1 Release calendar (s9.1):
- 8.2 Release calendar access (s9.2):
- 8.3 User access (s9.3):
- 8.4 News release (s11.1):
- 8.5 Publications (s11.2):
- 8.6 On-line database (s11.3):
- 8.7 Micro-data access (s11.4):

8.8 Other (s11.5):

- 8.9 Confidentiality policy (s8.1):
- 8.10 Confidentiality data treatment (s8.2):
- 8.11 Documentation on methodology (s12.1):
- 8.12 Quality documentation (s12.2):

Contents (cont.)

9 Contact (s1):

- 9.1 Contact organisation (s1.1):
- 9.2 Contact organisation unit (s1.2):
- 9.3 Contact name (s1.3):
- 9.4 Contact person function (s1.4):
- 9.5 Contact mail address (s1.5):
- 9.6 Contact email-address (s1.6):
- 9.7 Contact phone number (s1.7):

9.8 Contact fax number (s1.8):



SDDS

- The Special Data Dissemination Standard (SDDS)
- Established in 1996 to guide members that have, or might seek access to international capital markets
- Enhance the availability of timely and comprehensive statistics
- Release calendar
- Detailed information on statistical practices or metadata
- DQAF data quality assessment framework



DQAF – data quality assessment framework

Five dimensions

- assurances of integrity
- methodological soundness
- accuracy and reliability
- serviceability
- Accessibility

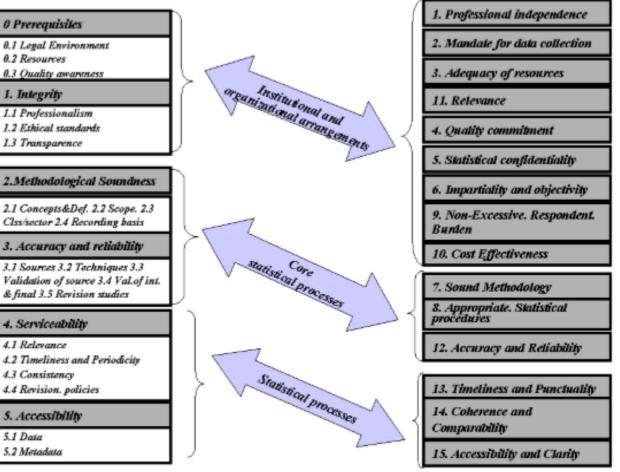
Special for each of the domains:

- National Accounts Statistics
- Consumer Price Index
- Producer Price Index
- Government Finance Statistics and Public Sector Debt Statistics
- Monetary Statistics
- Balance of Payments and International Investment Position Statistics
- External Debt Statistics
- External trade in goods



Comparison of IMF and EU quality dimensions (2006)

DQAF (including elements)



Eurostat



ESS Quality Reporting

http://ec.europa.eu/eurostat/web/quality/quality-reporting

you will find:

ESS handbook for quality reports 2014 ESS Quality and Performance Indicators 2014 Single Integrated Metadata Structure and its Technical Manual ESS Quality Glossary Handbook on Data Quality - Assessment Methods and Tools Handbook on improving quality by analysis of process variables





