

DATA QUALITY ASSESSMENT METHODS AND TOOLS IN SSO – MACEDONIA

32 - Quality Management Systems 3
03.06.2016

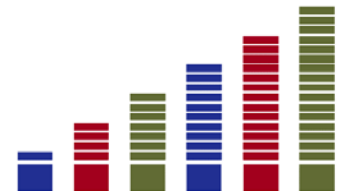
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Madrid, May 31 - June 3

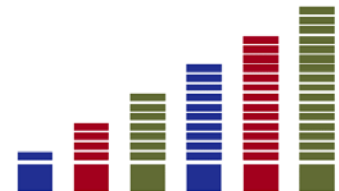
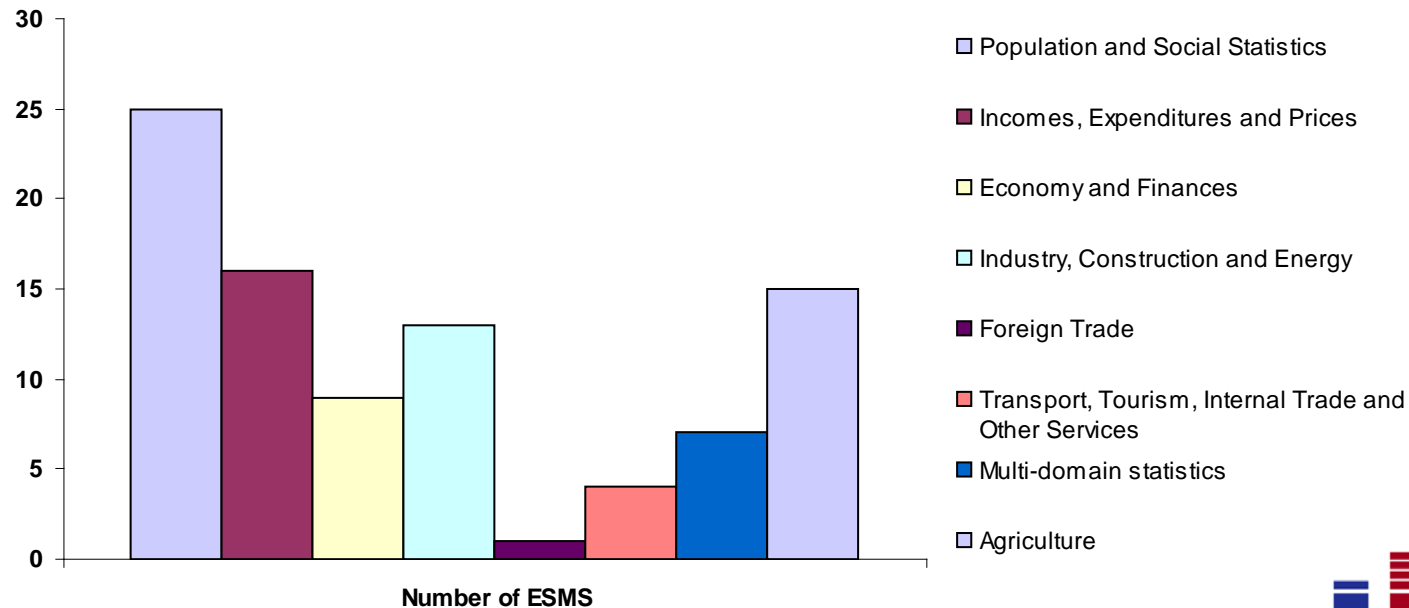
Introduction

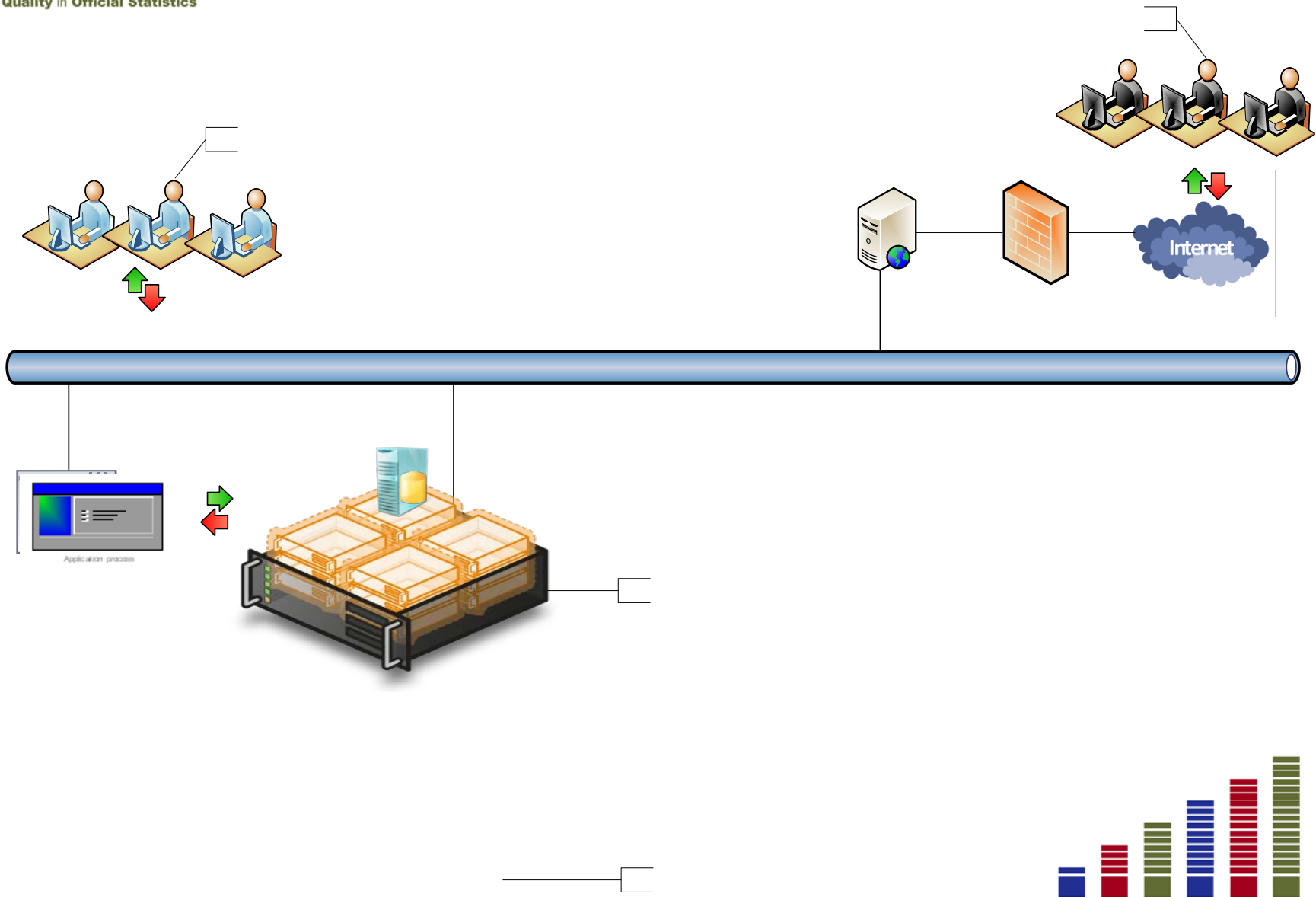
- The vision of the SSO is to be recognized as an institution that provides high quality, timely and relevant statistical information by adhering to the 15 principles of the European Statistics Code of Practice
- Production of high-quality statistics depends on the implementation of a quality assurance framework and the regular assessment of data quality
- The quality of statistical products has to be evaluated through the multi-dimensional approach



Quality Reports

- Adoption of Euro-SDMX Metadata Structure
- Development of ESMS Database and Application
 - Usability and flexibility
 - User control via an intuitive structure of information
 - Creating dynamic reports
 - Reusability and its potential benefits
- Producer oriented Quality Reports according ESQRS





DESAP self-assessments

- Extended German version of DESAP
- Pilot self-assessments
- Strength & Weaknesses

Strength

- Aims specifically at increasing the quality awareness of staff of all levels
- Getting a better overview of the production processes used in the different domains
- Less effort and lower costs
- Generation of improvement ideas

Weaknesses

- Subjective approach of survey managers when answering the questions
- Time - consuming
- Considered as an occasion-based quality instrument
 - Surveys with big changes to concepts and/or methodology
 - New surveys after the 2nd or 3rd wave
 - Surveys with known quality problems



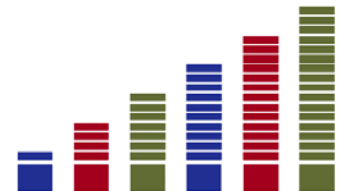
Self-Assessment Questionnaire for Statistics
(according to DESAP)
English Version: May 2013

Name of the country: _____

Name of the institution: _____

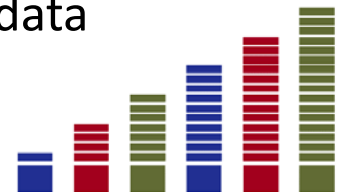
Date: _____

I. Specify needs	Relevance
	- Survey objectives
II. Design	Survey concepts
	- Data sources
	- Administrative data or other available data sources (e. g. registers)
	- Frame
	- Sampling method (for sample surveys only)
III. Build	Development and testing of the questionnaire
	Computer assisted data collection
IV. Collect	Interviewer deployment and training
	- Computer Assisted Telephone Interviews (CATI)
	- Fieldwork
	- Data transfer
	- Data capture
V. Process	Record linkage
	- Feasibility checks
	- Imputation procedures (Estimation of missing or implausible values)
VI. Analyse	Accuracy
	- Comparability
	- Coherence
	- Data analysis
	- Disclosure control
VII. Disseminate	Timeliness and Punctuality
	Metadata documentation
VIII. Archive	Data management
IX. Evaluate	Adaptability / Flexibility
	- Expertise in relevant areas
	- Quality management



Quality evaluation of the administrative data

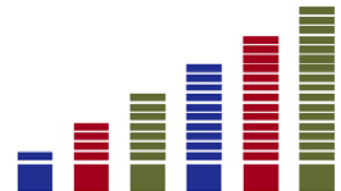
- Strategic Plan 2016-2018
- Memoranda and agreements for electronic data exchange
 - More than 13 institutions
- Before signing agreements for data exchange with administrative data holders the following activities are done:
 - Detailed analysis of data and their coverage, content, timeliness and frequency
 - Comparison of statistical and administrative concepts, definitions and classifications
 - Assurance of quality of administrative data i.e. control procedures used by the provider
- Example SES - combined method for data collection which implies using certain data from the PRO's database and collecting additional data via paper questionnaire



Quality evaluation of the administrative data

- Assessment the quality of administrative data sources
 - Framework questionnaire
 - Checklists of indicators

- Project - “Improve the quality of data in the systems of state institutions”
 - 18 institutions (MISA-in charge)
 - Standards for quality - mandatory guidelines that should be applied
 - Eight characteristics:
 - Accuracy
 - Validity
 - Reliability
 - Timeliness
 - Completeness
 - Relevance
 - Consistency
 - Conformity

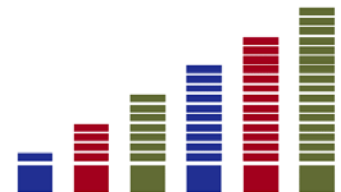


User Satisfaction Survey

- Purpose of the survey
 - Habits of users in the use of statistical data
 - Views on the statistical data
 - Principles of the CoP of European statistics relating to statistical outputs
 - Services of employees with regard to provision of data and information
 - Web site
 - Demographic data on participants in the survey

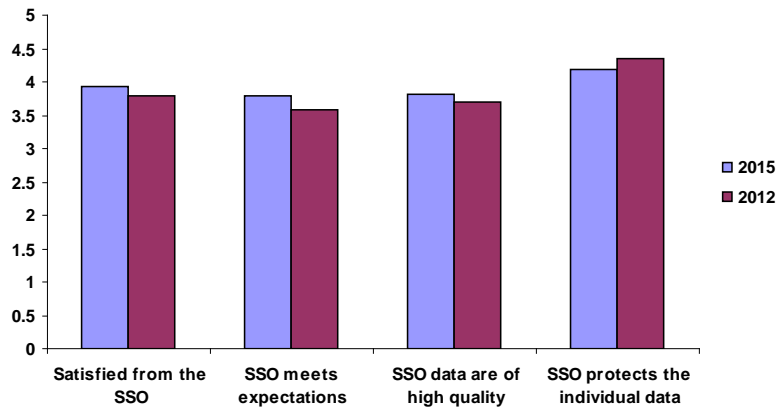
- Means of conducting the survey - from 16th of January to 16th of February 2015 through a web questionnaire

- Coverage - 16.6% of the total number of invited users participated in the survey.

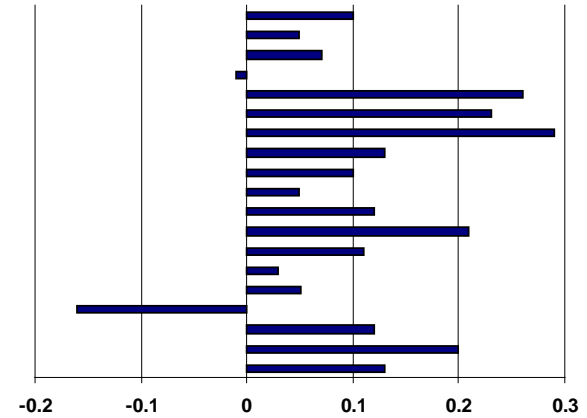


User Satisfaction Survey

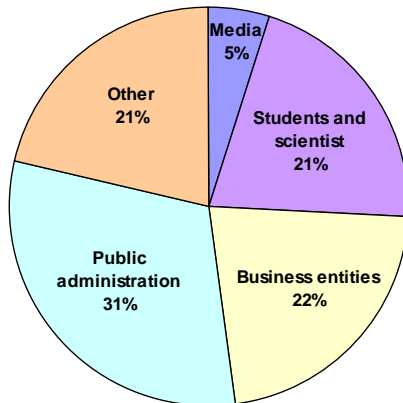
Questions related to SSO



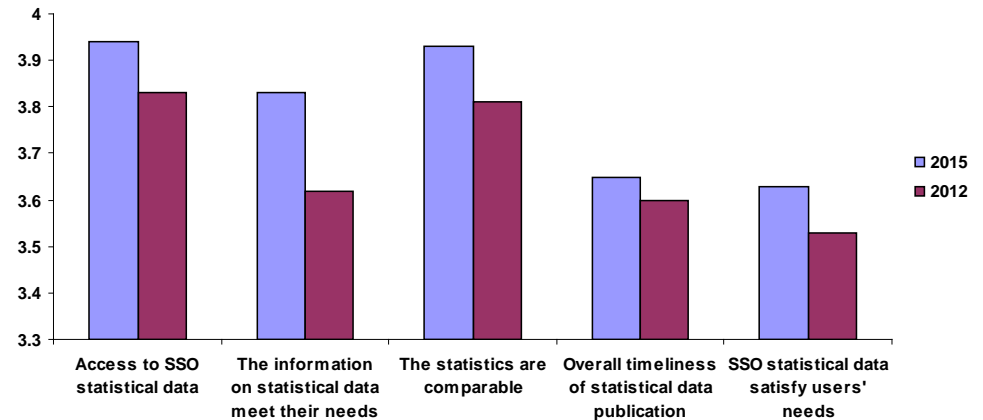
Difference in the assessment questions in 2014 and 2015 in % points



Group of users

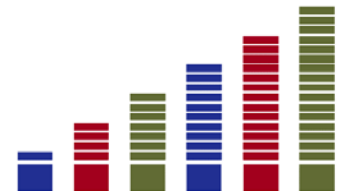


Questions related to statistical data



Future challenge

- Broader implementation of DESAP
- Increase the use of administrative data sources for statistical purposes
- Peer Review
- Modernise the manner of disseminating statistical data
- Continuation with measuring user satisfaction
- Implementation of SIMS



Thank You for Your Attention!

