

Introducing a Framework for Process Quality in National Statistical Institutes

16 - Quality Assessment & Audits

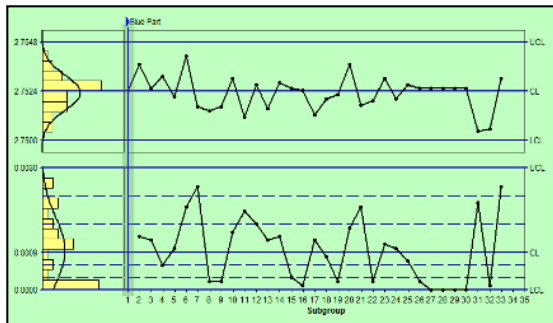
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Background



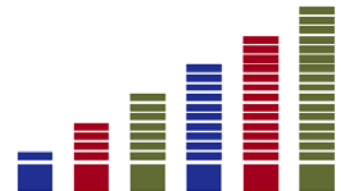
Leadership expert group (Leg) on Quality (2001)

Efficiency, effectiveness, robustness, flexibility, transparency and integration

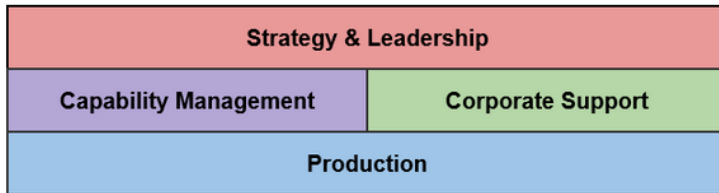


Statistical Quality Control (SQC)

Maintain processes under control by monitoring key variables



Background



GAMSO

Activities of a Statistical Organisation

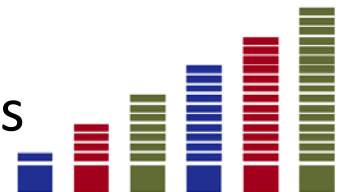


Ess Vision2020 key area

Promote efficiency and productivity gains

through

sharing methods, tools,
technological infrastructures



Background

ES Code of Practice (CoP)

Area “Statistical Products” → Quality Dimensions

Area “Statistical Processes” →

Sound methodologies

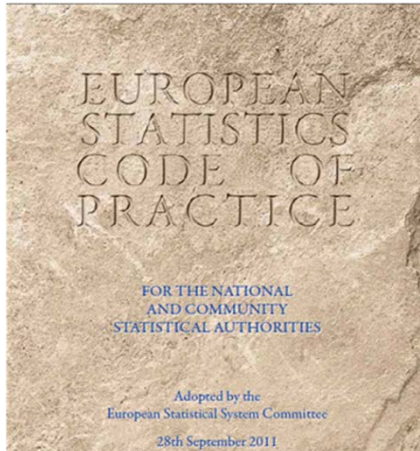
Appropriate statistical procedures

Non-excessive burden on respondents

Cost-effectiveness

Ess Quality & Performance Indicators (QPIs)

- To measure and monitor quality
- To communicate quality to users



ESS GUIDELINES FOR THE IMPLEMENTATION OF THE
ESS QUALITY AND PERFORMANCE INDICATORS (QPI)

These indicators were reviewed by the
Eurostat Expert Group on Quality Indicators in 2010
and then slightly updated by the Task Force on Quality Reporting in 2012-2013

For more information, please contact the Quality team of Eurostat: estat-quality@ec.europa.eu

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http://ec.europa.eu/estat
Data Access@estat.eu



Aims & description of the work



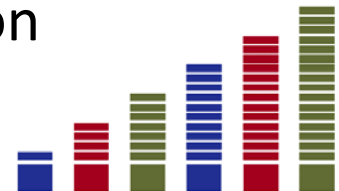
Develop a framework for process quality

- define process quality requirements
- to extend the quality framework to other processes beyond statistical ones



Building blocks

- process definition / analysis
- quality dimensions identification

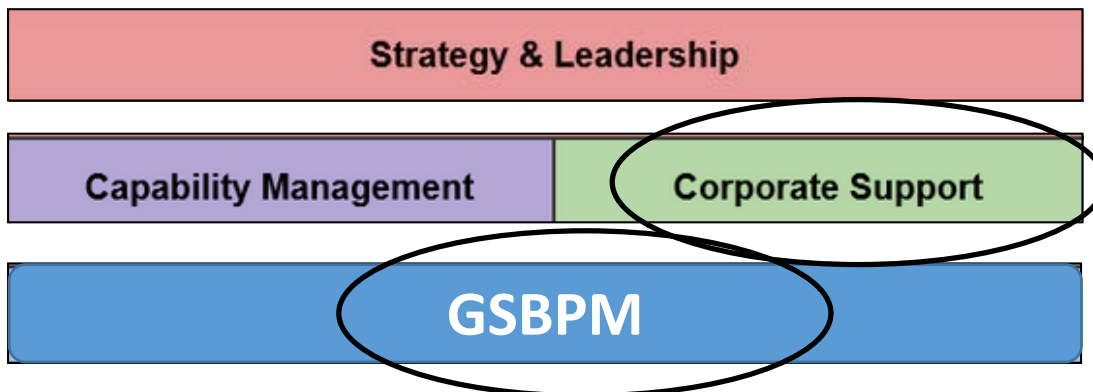


Processes in a Statistical Office

Literature

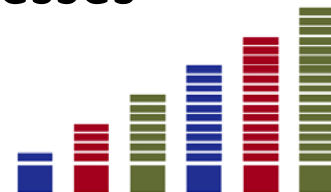
- Strategical
- Management
- Operational

GAMSO



Initial considerations

- Processes have different nature: statistical, organisational
- Initial focus on business and corporate support processes
- Dimensions apply to: process/phase/sub-process



Quality dimensions

IDENTIFIED

TRANSPARENT

REPRODUCIBLE

RELIABLE & ROBUST

EFFECTIVE

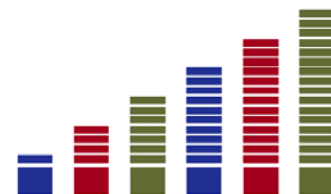
EFFICIENT

CONTROLLABLE

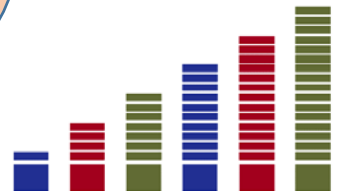
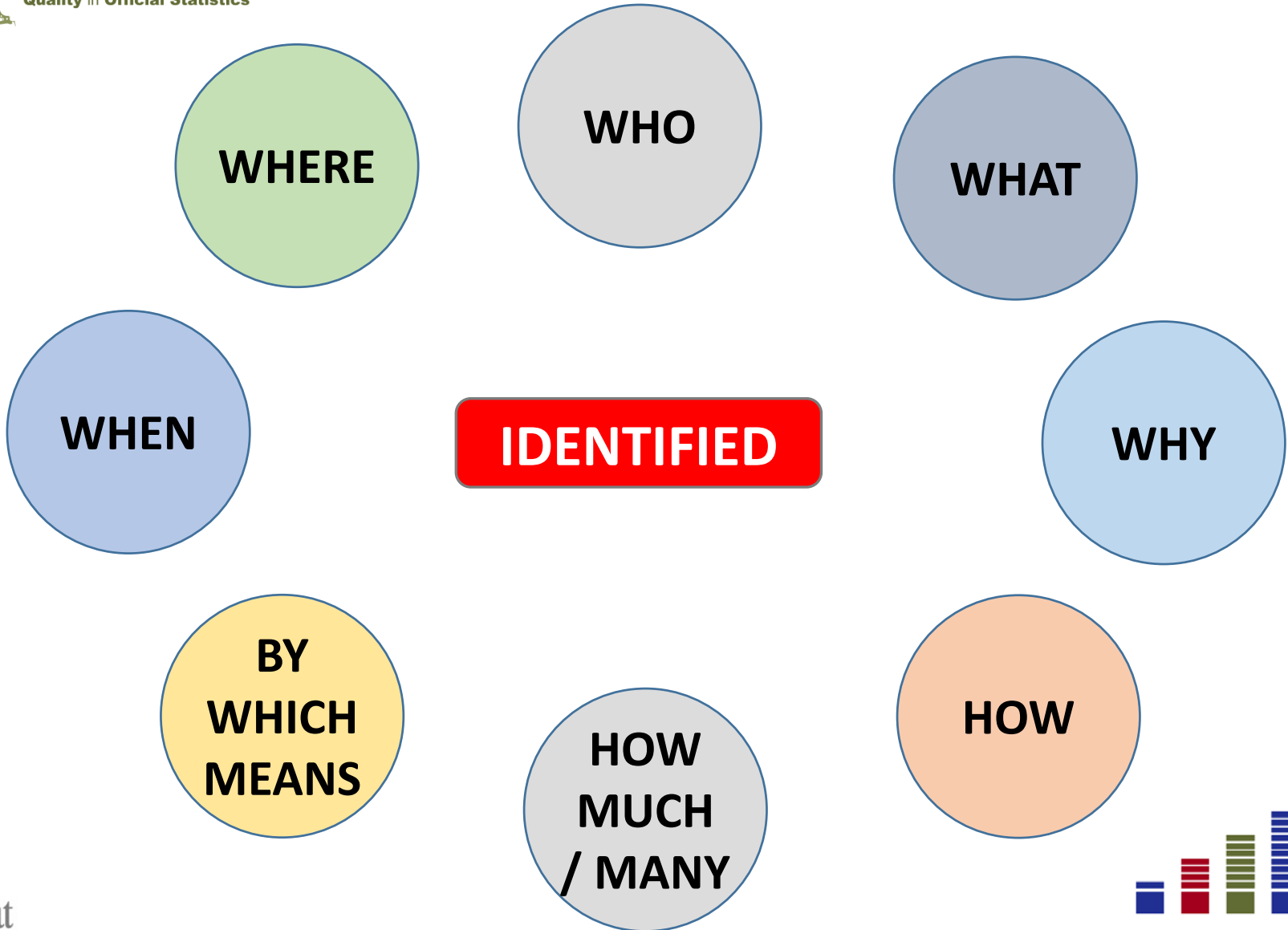
FLEXIBLE

INTEGRATED

SECURE



Quality dimensions: Identified



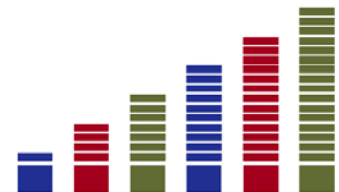
Quality dimensions: Transparent and Reproducible

TRANSPARENT

Well documented & easily accessible to users and stakeholders

REPRODUCIBLE

Producing the same output if replicated on the same input



Quality dimensions: **Reliable,** **Robust, Effective, Efficient**

RELIABLE & ROBUST

Reliable: its correct functioning is guaranteed

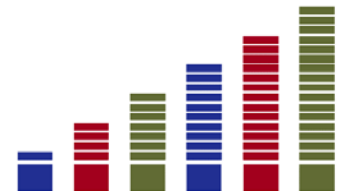
Robust: achieving results against unexpected situations

EFFECTIVE

Successful in delivering the desired outcomes

EFFICIENT

Producing the expected outputs cost-effectively



Quality dimensions: Controllable, Flexible, Integrated, Secure

CONTROLLABLE

Monitored and assessed against targets

FLEXIBLE

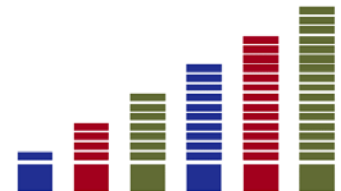
Readily adaptable to changing needs and demands

INTEGRATED

Easily combined with other processes/phases/sub-processes

SECURE

Associated risks are analysed and prevented



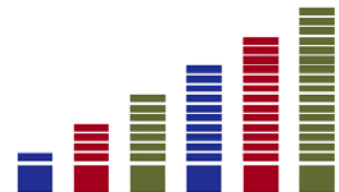
Final remarks and future work

Work done

- Resumed the Leg on Quality work on process quality characteristics and added some additional quality dimensions
- Widened the focus from business processes to corporate support processes

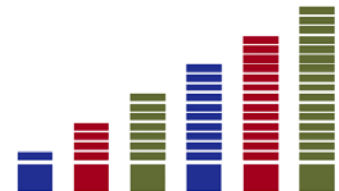
Remarks

- Some quality dimensions apply better to some processes than others
- Some quality dimensions have a twofold interpretation from an organisational and from a statistical point of view



Future developments

- To identify the concrete processes underlying the corporate support activities relevant for Istat
- To equip the process quality dimensions with measurements
 - Explore if homogeneous measures in business and corporate processes can be introduced
 - Not all dimensions measurable
- To analyse other processes of the statistical organisation



Thank you for your
attention

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