Day 3 AM, PPT10 11 December 2014

Regional Training Course on the NSDS 9-12 December 2014, Chiba, Japan

Quality assurance and user satisfaction



Development in the 21st Century

Outline

- **1**. Quality statistics
- 2. Users generic requirements
- 3. Quality assurance
- 4. Quality in the NSDS design process
- 5. Official statistics as Open Data

Quality statistics

- **Common definition:** fitness for use/purpose
- ISO 9000 Quality Management System definition: the degree to which a set of inherent characteristics fulfils requirements.
- Achieving "perfect" quality is neither desirable nor affordable
- Quality has to be sufficient
 - any increase in quality does not affect the use or the purpose in any way.

Users' Generic Requirements

General users' expectation:

- Statistical data exist when in need
- Statistical data are relevant
- Statistical data are accurate enough
- Statistics are easily accessible to any and all users
- Statistics are interpretable
- Statistical data sets are coherent
- Statistics are delivered in time for proper use and on predictable short or mid-term schedules

Points to consider:

- Users have no means to determine statistics quality on their own.
- Trust in data depends on the credibility and reputation of the data producers who have to take necessary steps to assure them.
- Quality assurance management levels:
 - Managing the statistical system
 - Managing the institutional environment
 - Managing statistical processes
 - Managing statistical outputs

Managing the statistical system (National Statistics Council):

- Coordinating the whole national statistical system
- 2. Managing relationships with data users and data providers
- 3. Managing statistical standards

Managing the institutional environment:

- **1**. Assuring professional independence
- 2. Assuring impartiality and objectivity
- 3. Assuring transparency
- 4. Assuring statistical confidentiality and security
- 5. Assuring the quality commitment
- 6. Assuring adequacy of resources

Managing statistical processes:

- **1**. Assuring methodological soundness
- 2. Assuring cost-effectiveness
- 3. Assuring soundness of implementation
- 4. Managing the respondent burden

Managing statistical outputs:

- 1. Assuring relevance
- 2. Assuring accuracy and reliability
- 3. Assuring timeliness and punctuality
- 4. Assuring accessibility and clarity
- 5. Assuring coherence and comparability
- 6. Managing meta-data

Quality in the NSDS Design Process

Assessment leads to an understanding of quality issues, as part of the NSDS process:

- Assessment of statistical outputs
- Assessment of user satisfaction and needs.
- Assessment of statistical capacity of NSS (i.e., governance and institutional arrangements, infrastructure, information technology, etc).

Quality in the NSDS Design Process

Strategising leads to:

- Decide how the envisioned NSS will assure statistics are fit for purpose and responds adequately to users needs – possibly agreeing on a quality declaration (What and Why quality).
- Define strategies for improvement of the quality of statistics (How to).
- Define general structure of a quality system (Who does What & When) within the NSS.

Quality in the NSDS Design Process

Action plans would include:

- The set-up of desired operational quality system for the NSS as a whole and for each of its components.
- The data quality improvement program for the program or planning period.

Official Statistics as Open Data

Open data in general is:

- easily available, typically via the internet.
- accessible in both human- and machine-readable formats
 - allows data to be combined and utilized in different ways using computer programs
- free from legal restrictions, usable and re-usable for any commercial or non-commercial purpose
 - does not require registration, or need to obtain prior permission.
- available at no cost.

Official Statistics as Open Data

Common terms of use of data from open sources:

- Attribution: open data provider may require crediting them for data used.
 - Allows open data providers to receive credit and for downstream users to know where data came from.
- Integrity: open data provider may require data users to provide clarification if data has been changed.
 - very relevant for governments who wish to ensure that people do not claim data is official if it has been changed
- Share-alike: open data provider may impose share-alike requirement
 - any new datasets created using their data are also shared as open data
- Statistical data are open but subject to confidentiality constraints

Official Statistics as Open Data



PARIS21 Secretariat OECD/DCD 4 Quai du Point du Jour 92100 Boulogne-Billancourt, France contact@paris21.org www.paris21.org



twitter.com/ContactPARIS21



You

facebook.com/ContactPARIS21

youtube.com/PARIS210ECD