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Statistics Austria
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Agenda Item 3.4
Eurostat quality report and quality assessment of statistics in Statistics Austria

Capacity Building, WS III, Baku 2013

About me

Jürgen Weiss

Education
• MA in Tourism Economics (University of Applied Sciences Vienna)
• BA and MA in Political Science (University of Vienna)

Profession
• Head of Tourism and Travel Statistics – Statistics Austria: Responsible for compilation of Tourism Statistics and Travel Item of Balance of Payments

International
• TAIEX Expert in Tourism and Balance of Payments Statistics

Teaching
• Lecturer in macroeconomics (University of Applied Sciences in Vienna, Bachelor’s programme)
Quality Reporting in the European context

Reference for the Eurostat quality report

- Laid down in Regulation concerning European statistics on tourism (Article 6)
- Quality criteria are not “invented” for tourism purposes
  ➔ general statistical quality criteria of Eurostat are used
- Each year, member States provide Eurostat with a report on the quality,
  – for the reference period in the reference year
  – on any methodological changes
  – within 9 months after the end of the reference year
- The structure of the quality report is defined by Eurostat in form of implementing acts
  – The quality reports are standardized
  – The reports follow the standardized exchange formats used in the European statistical system

Quality Reporting in the European context

ESMS (Euro SDMX Metadata Structure)
  - User-Oriented
  - National Metadata will be made available to users on the Eurostat-Website

ESQRS (ESS Standard Quality Reporting Structure)
  - Producer Oriented
  - Accessible only for partners within ESS
  - Accessible only after “green light” from the country concerned

- Fields/concepts that are common to the ESMS and ESQRS can be automatically re-used.
- Reports have to be filled in for the supply side (accommodation statistics) and demand side (household surveys)
Quality Reporting in the European context

Structure of the Eurostat quality report

Relevance, including completeness
Accuracy, including coverage error, recall bias, classification error, item and unit non-response, imputation rate, sampling error and coefficients of variation
Timeliness, including information on the calendar for the production process
Punctuality, including information for data transmission
Accessability and Clarity, including information on the release calendar
Coherence
  • Within the domain (other data sources)
  • With other statistical domains
Cost and Burden, including a quantitative and qualitative indication of the cost of burden
Metadata, relating to the statistical presentation and processing

quality report (SUPPLY / DEMAND)

I: Contact

SUPPLY and DEMAND
• Country
• Contact Organisation
• Contact unit
• Contact Name
• Contact person function
• Contact mail Address

II: Introduction

SUPPLY and DEMAND
A general description of the statistical process and its outputs as well as their evolution over time.

www.statistik.at  slide 5  |  10 – 12 June 2013

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III: Quality Management

**SUPPLY and DEMAND**

- Overall assessment of data quality of the statistical outputs should be provided by summarising the main strengths and possible quality deficiencies.
- Any trade-offs between quality aspects can be mentioned as well as planned quality improvements.

IV: Relevance

**SUPPLY and DEMAND**

- Completeness as compared to user needs.
- Completeness as compared to the requirements and recommendations laid down in the Regulation and Methodological Manual respectively.

V: Accuracy and Reliability

**SUPPLY**

- Sampling Error
  - Annual and monthly numbers of arrivals and nights spent, by residents and non residents
- Non Sampling Error
  - Coverage Error
  - Over-Coverage-Rate
  - Non Response error (unit non response; item non response)
- Seasonal adjustment
- Model Assumption Error
- Data revision policy and practice

**DEMAND**

- Sampling Error – Coefficients of variation
- Number of residents, having made at least one trip broken down by various variables
- By domestic and outbound, private and business
- Non Sampling Error
- Coverage Error
- Over-Coverage-Rate
- Non Response Error (unit non response; item non response)
- Imputation rate
- Model Assumption Error
- Data revision policy and practice
VI: Timeliness and punctuality

**SUPPLY**
- Timeliness
  - Time lag – first results
  - Time lag – Final results
- Punctuality
  - Punctuality - delivery
- Transmission deadlines for data suppliers
  - NACE Classification

**DEMAND**
- Timeliness
  - Time lag – first results
  - Time lag – Final results
- Punctuality
  - Punctuality - delivery
  - Overview of the survey cycle (if several survey waves, please refer to the last wave regarding the reference year, e.g. 4th quarter)
    - Start of data collection period
    - End of data collection period
    - End of data entry
    - End of data validation

VII: Accessibility and Clarity

**SUPPLY and DEMAND**
- News release and publications
- On-line database
- Micro-data access
- Other (Reference to the most important other types of data dissemination)
- Documentation on methodology and quality

VIII: Comparability

**SUPPLY and DEMAND**
- Comparability – geographical and over time
- Length of comparable time series
- Comparability between domains; reconciliation with other data sources (e.g. administrative data, data on tourism supply, mirror or partner data)
IX: Coherence

**SUPPLY**
- Coherence - cross domain
- Coherence - sub annual and annual statistics
- Coherence - thresholds used (limitation of the scope)
  - By NACE Classification
- Where applicable, sources and/or methodology used for estimating the number of nights spent in tourist accommodation establishments excluded from the scope of observation

**DEMAND**
- Coherence - cross domain
- Coherence - internal

X: Cost and burden

**SUPPLY and DEMAND**
- If possible, an estimate of the cost associated with the collection and production of a statistical product and an estimate of the burden on respondents.

XI: Confidentiality

**SUPPLY and DEMAND**
- Confidentiality – policy
- Confidentiality - data treatment and disclosure control
quality report (SUPPLY / DEMAND)

XII: Statistical Processing

SUPPLY and DEMAND

Source Data
   Population frame, update and Coverage error of the population frame
   Target population
   Sampling design and methodology
   Frequency of data collection

Data Collection
   - Type of survey
   - Data collection methods

Data validation

Data compilation

SUPPLY
BY NACE classification

DEMAND
Proxy Interviews, average interview time

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Quality report

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