Harmonization and Integration of Internal Data Sources in Constructing Statistical Business Register Initial Data in BPS - Statistics Indonesia

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Background

- The maintenance of business directories in BPS conducted by separately responsibility unit based on industry (named Subject Matter Area - SMA) that causing problems like: duplications, lack of survey coordination.
- BPS has not maximized yet the use of secondary data for producing timely statistics.
- Difficulties to measure respondent burden in the surveys.

Through Statistical Business Register (SBR) development, BPS started to integrate existing business directories into single register for all industry and to use of primary and secondary data as SBR initial data.
Research question and scope of study

Research Question:
• How to construct SBR initial data by utilizing internal data sources?

Scope of Study:
• The SBR initial data construction process including data harmonization and data integration which has been done in the period of 2013-2016.
• The study cover businesses with large business scale for all industry.
Methodology (1)

Data Harmonization

Statistical Units

Classifications

Geographic Location Code

Variables
Methodology (2)

Data gathering

Data Integration

Matching

Profiling

- Financial statement
- Official company website
- Newspaper and mass media website
Findings

- SBR now has a total **1090k unit** units which was derived from SMA’s directories (545k), profiler exploration (37k), EC 2006 data (116k) and 2016 EC preparation regional admin data (508k).

- SBR data was used to produce pre-filled form (44997 units) and list frame on EC2016 (997128 units).

- Harmonization process needs **to be done repeatedly** and not as easy work in order to ensure the statistical consistency and coherence data.
Remaining issues/further research

Remaining Issues:
• Reconciliation in count of business from SMA compared to SBR because of harmonization process.

Further Research:
• How to elaborate SBR data with EC 2016 data.
• SBR need a link to administrative data from ministries/agencies continuously in order to produce timely statistics.
• The use of SBR initial data as quality benchmark to select administrative data.