Using Administrative Data for Official Statistics

Labour Market Statistics: Harmonization and Analysis of Administrative Data Sources

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Putrajaya- Malaysia
Admin Data for Official Statistics

WHY?

- Response burden
- Difficulties in direct data collection from respondents
- Cost (Time, money, etc.)
- Coverage limitations
- Technological developments
- Difficulties in measuring economy
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WHY?

- Numerical, volumetric, detail increase of data demands
- Official Statistics Programme 2017-2021 regarding "Use of Administrative Records in Production of Business Statistics“ instead of enterprise surveys
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Former Data Collection Methods

- Paper based surveys
- Computer based surveys
- On-line form via web with user ID and password
- Electronic data transfer systems (e-VT) from
  - payroll programmes,
  - personnel management programmes etc.)
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Redesigning Statistical Production

- Integrating admin data sources into the system
  - Social security institution
  - Revenue administration
  - Other relevant administration data

- Affected domains are
  - Business registers
  - Structural business statistics
  - Short term business statistics
  - National accounts

- Demographic and social statistics domains are in the process
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Pros and Cons of Administrative Data

- **Pros**
  - Having almost all of the observation units
  - High number of variables

- **Cons**
  - Without considering statistical purpose
  - High number of variables (data processing challenges)
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Challenges

- Data Storage
- Uncertainty
- New Employee Profile
- Lack of Metadata
- Organizational Culture
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Adaption to the Admin Data

- Learning new tools
  - New skills for staff, trainings for new software(s)
  - Collaborative work culture - intraunits

- Data processing changed

- DB performance and optimization
  - Table views
  - Index using
  - Partitioning
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Adaption to the Admin Data

- Standardization of verifying admin data
  - Institution-wide standards
  - Standardized data for all departments

- Business Registers (BR) integration

- Repetitive tasks
  - Automated procedures on software
  - Hard and time taking at the beginning

- Time for more analysis
  - Micro and macro
Thank You