

A strategy to increase use of administrative data in business statistics

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Overview

- Infrastructure for efficient reporting
- Administrative sources for business units
- Sample design and estimation
- Dynamic editing project
- Estimation by mass imputation

The Nordic approach

- Infrastructure for electronic reporting
- Cooperation between government agencies
- Developing register-based statistics

Infrastructure

- Legislation
- E-government
- Base registers and ID numbers
- Metadata system for government sector
- Altinn portal
- Statistical units and variables in administrative data systems

Data sources for business statistics

- Administrative legal unit register (LUR)
- Statistical Business register (BR)
- Enterprise accounts and general trading statements
- VAT, employment and wage-sum
- Foreign trade
- Statistical business surveys

Coordinated sampling

- Database to coordinate sampling. The aim is to reduce response burden in a systematic way by use of administrative data
- Large enterprise – census survey
- Medium size enterprise – sample survey
- Small enterprise – excluded from surveys

Example manufacturing industry

| 2005 | Number enterpr. | Number establish | Percent Production |
|---------|--------------------|---------------------|-----------------------|
| Complex | 1 086 | 1 768 | 59.4 |
| Single | 19 416 | 19 416 | 40.6 |

Establishments by sources

| 2005 | Number establish | Employment in 1000 | Prod. percent |
|---------------------|---------------------|-----------------------|------------------|
| A. Census Sample | 2 096 | 178.7 | 80.9 |
| B. Selected | 1 251 | 21.0 | 7.6 |
| C. Not select | 1 092 | 18.0 | 4.2 |
| D. Simple Q | 319 | 1.9 | 0.7 |
| E. Excluded | 16 426 | 34.7 | 6.9 |
| Total | 21 178 | 278.8 | |

Business survey data collection

Paper questionnaire

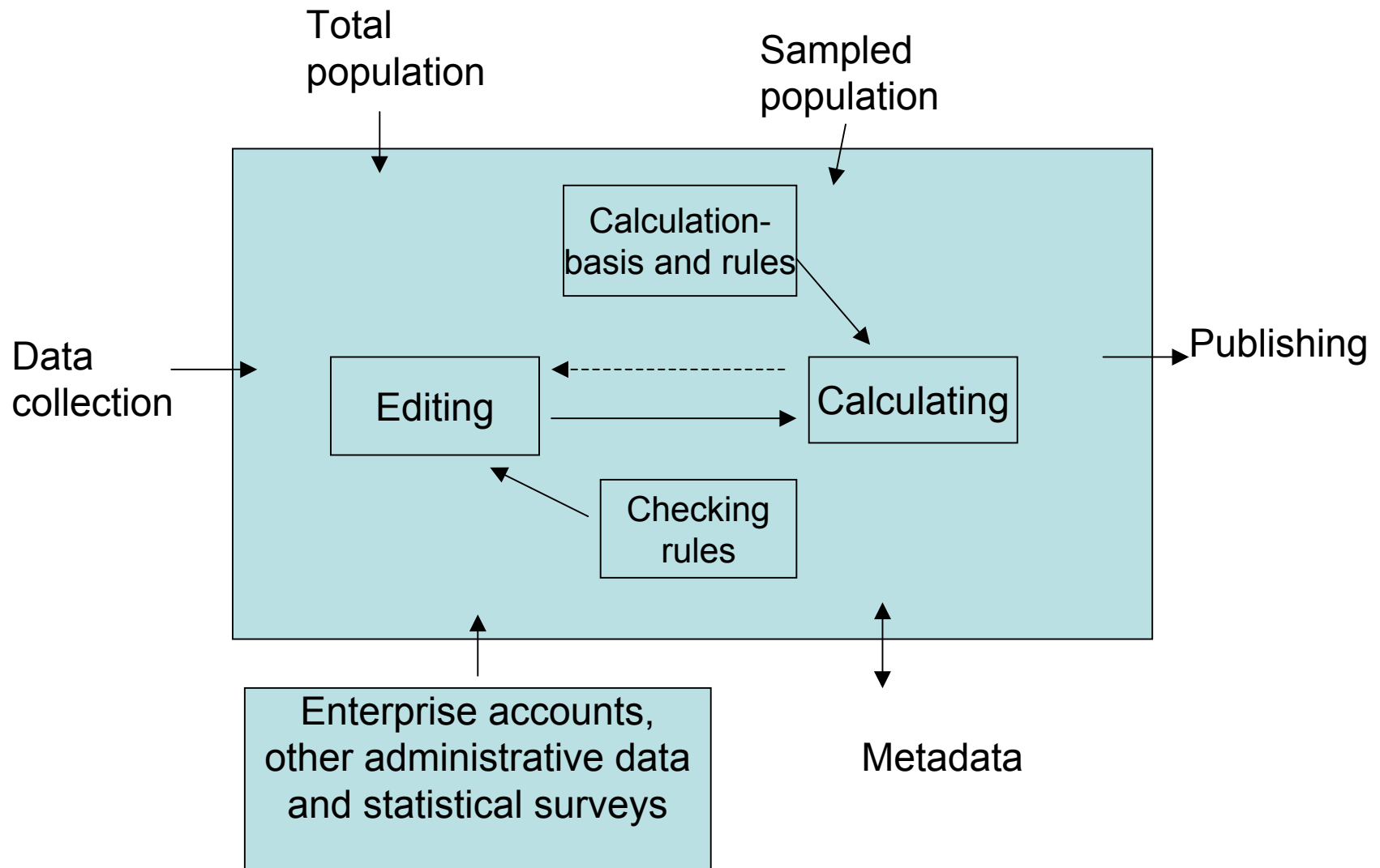
Electronic questionnaire

Direct reporting from enterprise system

Coordinated electronic reporting

Use of electronic tracks of third part

Dynarev



Estimation by mass imputation

Imputation by use of administrative data

- Total and item non response
- Establishment not selected for the sample
- Establishment with simple forms
- Establishment excluded from surveys