



Administrative Data

Michael Biddington, UN ESCAP Statistics
Division, Biddington@un.org



Introduction

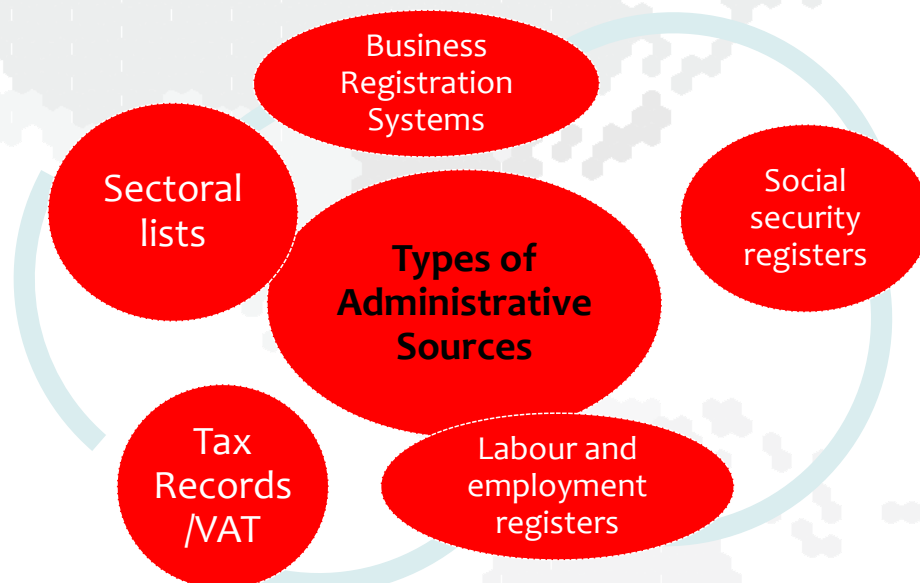
- Introduction
- Data sources
- Norway Example
- Australian Example
- Data providers
- Best practice



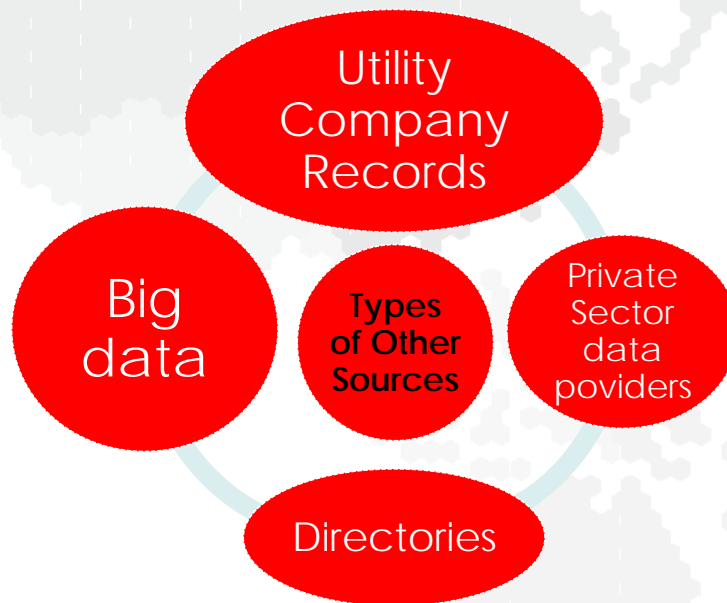
Administrative data and SBRs

- Work with what you have
- What are you trying to achieve
- Fit your SBR to your data
 - Coverage
 - Coherence
 - Bias
 - Cost
 - Quality
 - Purpose

Data Sources



Data Sources

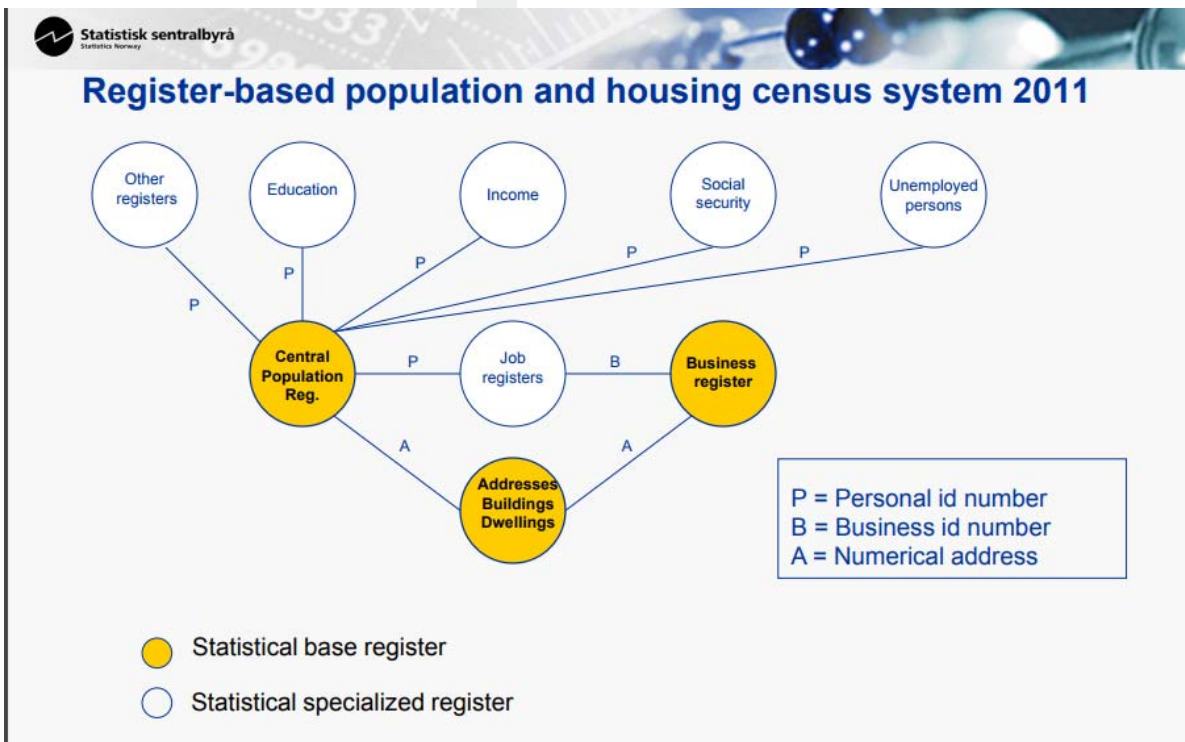


Data Sources and SBR

- National tax data is basis for most SBRs
 - National coverage
 - All substantial economic units
 - Annual Data
 - Strong incentives for people to register (Jail).

Norway's SBR

- Administrative data heaven;
 - Population Register
 - Address Register
 - Business Register
-
- All linked – unit record.
 - All done by other agencies
 - High data quality and accuracy



Norway's – SBR

- Many useful statistical purposes (Census)
- Viewed as a giant SBR.
- Stats Norway knows;
 - Employees – Wages, education, gender, etc
 - Locations – businesses and employees.
 - Tax data
- Very low cost & high quality statistics



Norway's SBR

- Stats Norway – minimal work.
- Data integration
- Legal and institutional frameworks
- Compliance



Australian SBR Admin Data (History)

- Australian Bureau of Statistics (ABS) First Integrated Register of Businesses (1968-69)
- Statistics Law – admin data
- Australian Taxation Office (ATO)
- **One Form** – Group Employer Registration Form
- All were sent a Mail profiling form
 - Activity (ISIC) & locations
 - Turnover
 - Contact details
- Used as survey frame for business surveys



Australian SBR Admin Data (History)

- Thirty years of collaboration led to:
- The New Taxation System (2000)
- Australia introduced GST (or VAT)

Australian Business Register (ABR)

- Separate agency (ABS & ATO staff)
- **Unique ID – all government**
- Registration form designed jointly (ABS & ATO)
- All businesses, charities, schools, etc have to register
- Reduced provider burden
- Enabled data integration



Admin Data in Australian SBR (Now)

- Australian Taxation Office
 - VAT (or GST) Tax
 - Company Tax
 - Wages and Salary Reporting
 - R&D + Other tax concessions
- Australian Business Register – Australian Business Number
- Australian Securities and Investments Commission
- Australian Prudential Regulation Authority
- Australian Charities
- Tourist Accommodation
 - Type of establishment and star rating
 - Listing is a private (non government) list.



Data Selection – Australia

- Country context is essential
- Issues to consider;
 - Coverage
 - Coherence
 - Bias
 - Cost
 - Quality
 - Purpose
- Lets consider this given Australia



Key Lessons – Australia

- What we learnt from 30 years of admin data
- Coverage – all employers
- Coherence – one primary source / form
- Bias – employers / formal
- Cost – One source / unique ID
- Quality – Second form
- Purpose – design the form



Selecting Data Sources

- Data Quality Framework (ABS)
- Relevance, Accuracy, Timeliness, Interpretability, Coherence, Accessibility
- Don't try to link them all
- No one does
- High cost



Communication with Data Providers

- Empathise
 - You are a risk
 - You aren't their job or purpose
 - Persuade or convince
- Understand their process
- Limit your communications / requests
- No one has perfected this
- Get an Memorandum of Understanding (MOU)



Standard MOUs

- Conditions for the supply of administrative data
- Agreed timetable for supply of data
- How data will be supplied, its format and quality
- Confidentiality and security of data and its use
- Engagement protocols around changes to data supply or systems changes.



Combining Multiple Data Sources

- Unique ID
 - Coherence (legal entity or establishment)
 - Unique ID matching can still be wrong
- If no Unique ID
 - Name matching
 - Fuzzy matching
 - Survey forms
 - Need a human to check



Best Practice

- Statistical Law
- Data provided by MOU
- Design data collection processes
- Shared Unique ID's across government
- Achieve these and admin data becomes exponentially more useful



Q&A

- Thank you!

