



# Administrative Data

Michael Biddington, UN ESCAP Statistics  
Division, [Biddington@un.org](mailto:Biddington@un.org)



## Introduction

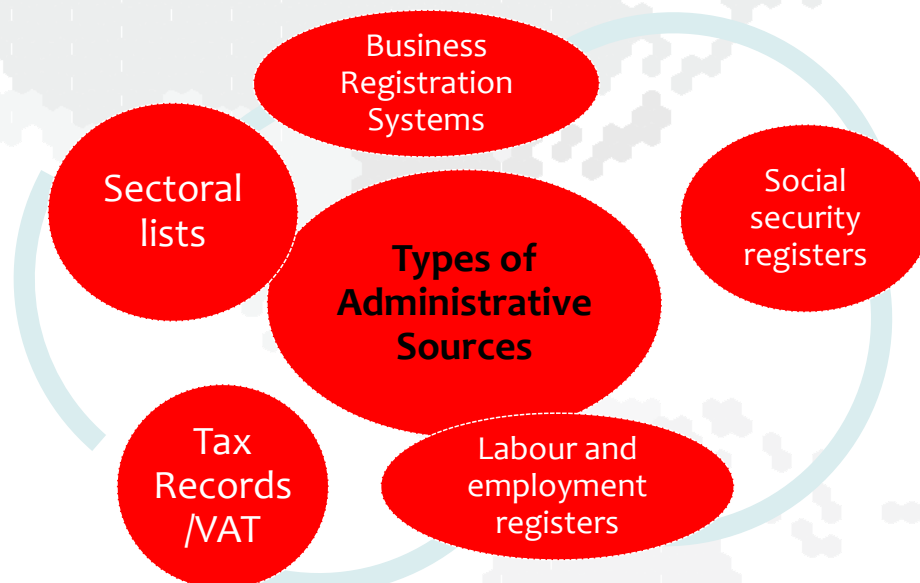
- Introduction
- Data sources
- Norway Example
- Australian Example
- Data providers
- Best practice



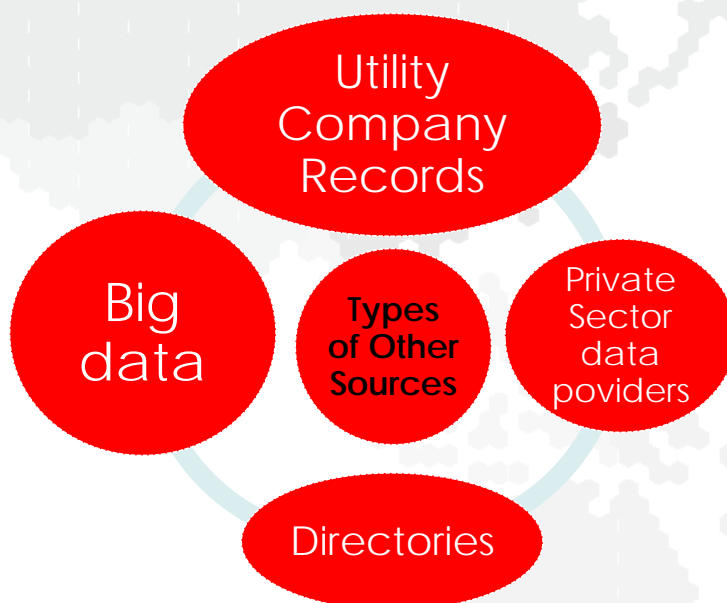
# Administrative data and SBRs

- 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

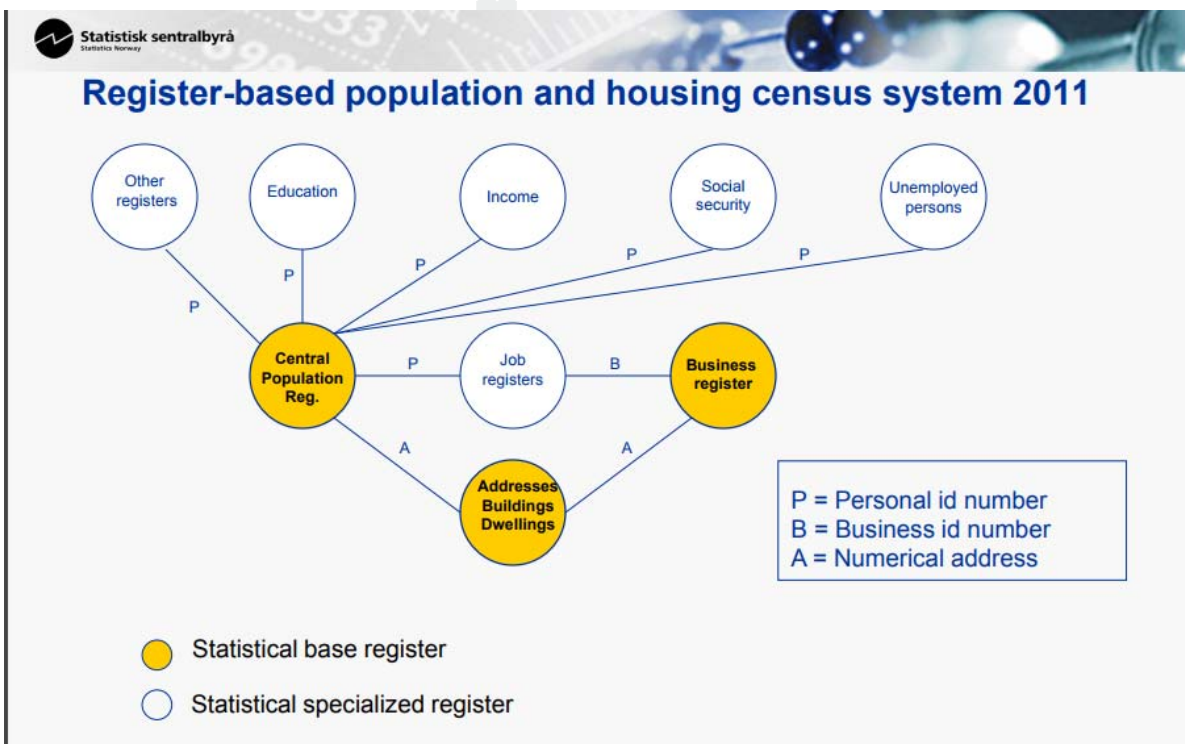


## Data Sources and SBR

- 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!

