Improving Use of Administrative Data in Production of Official Statistics: **Role of Statistical Register Systems** 12-16 September 2015, Tehran, Islamic Republic of Iran

Session1.2: An overview of models for

- United Nations (2011): Using Administrative and Secondary Sources for Official Statistics: A Handbook of Principles and Practices
 United Nations (2007): Register-based Statistics in the Nordic countries
 Wallgren, A. and Wallgren, B. (2007). Register-based Statistics Administrative Data for Statistical Purposes, John Wiley & Sons, Ltd, Chichester, UK.



Arman Bidarbakht-Nia

lecturer, UNSIAP

Different registers

- Keep stock of units (entry and exit)
- (real estate, buildings and dwellings), and businesses (eg. enterprises)
- Example: central population register (CPI)



Which units do we register?

Base registers

Units:

- Person
- Property
- Address
- Business

Content:

Birth & death (When? Where? What?)



-PIN

-Address code

-Business ID

Other specialized registers

Units:

- Person
- Activity • Vehicle

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- Property Address
- **Business**

Content:

Other characteristics (education, income, health, employment,...)

Note on linking key

- *Some units may need more than one linking key
- * Private vehicle links to PIN
- * Corporate vehicle links to Business code
- *One linking key may combine two keys
- * Linking key for job unit is a combination of the business code (for establishment or enterprise) and PIN (for employed person)

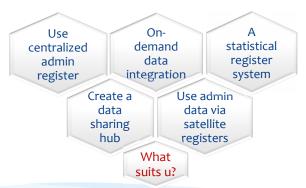




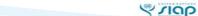


Models for creating registers

Possible approaches

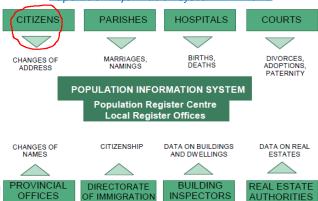






Using centralized administrative registers

Population information system in Finland





Data integration projects: Australia

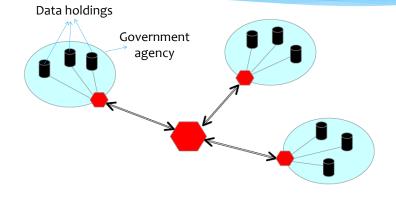
Integrating Data source Data custodian

Data was a source Data custodian

Data user

SIOD

Create a data-sharing hub





Example of data-sharing hub: IDI at statistics NZ Outputs Integrated Data Infrastructure Official Statistics Statistical releases Ministry of Ministry of Statistics NZ Education Social Development Longitudinal Ministry of Central linking Business concordance Inland Innovation and Employment New Zealand Accident Source: Statistics New Zealand Compensation Corporation 2 VIOD

Using admin data via satellite registers

* Also called "associated registers"

Source-specific registers meeting specific criteria:

Not yet integrated into, but capable of being linked to statistical register

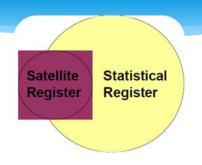
Limited in scope but extensive in coverage of units and variables Contain variables not available in statistical registers

They are not from surveys

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- When registers are used as sampling frame, satellite registers can add value to statistical registers by:
 - Increase coverage of target population
 - Providing auxiliary variables for stratification and estimation
 - Reduce amount of information needs to be collected by survey
- Examples: retail trade, hotels, large enterprises,...



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