

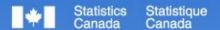


# **Administrative Data**

# A long journey A new beginning

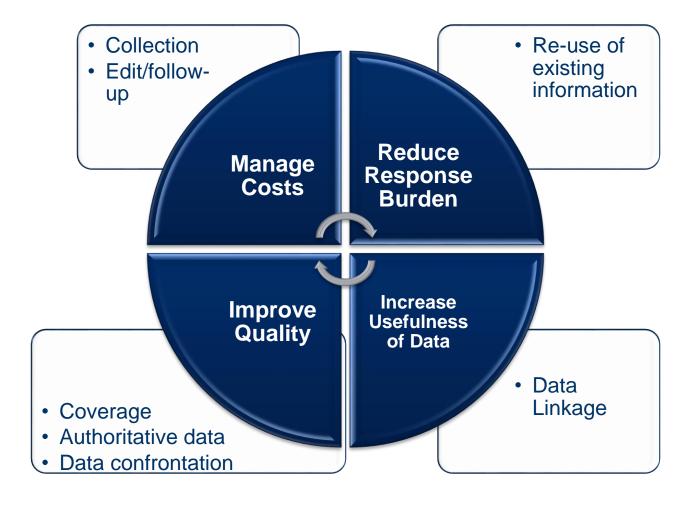
### **André Loranger**

ISFP forum in Ecuador – Strengthening Statistical Management Practices November 16, 2015



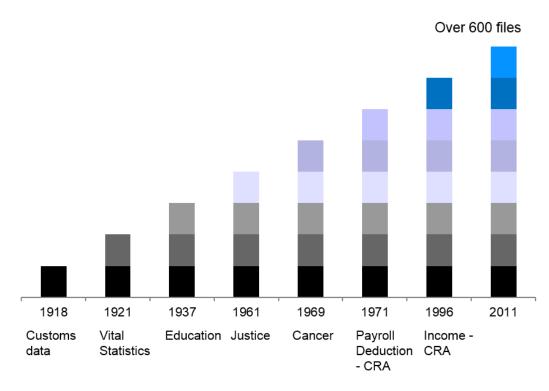


## Why use administrative data?



### A tradition of using administrative data

- As a stand-alone source to produce national statistics
- To support surveys
  - Creation of the statistical registers
  - Survey collection
- To partially replace survey data
- To provide new analytical opportunities
- Edit and imputation
  - Benchmarking, calibration, calendarization
- Data quality evaluation
- Enhancing survey data data integration

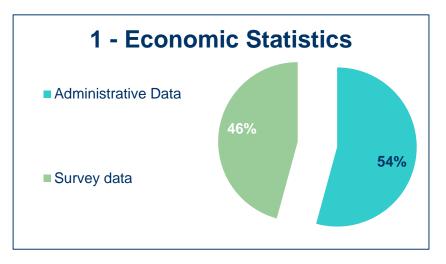


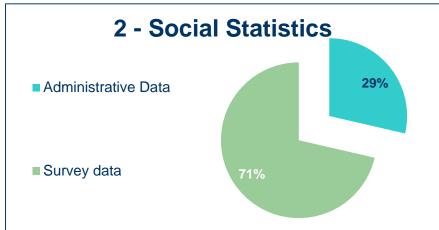
Principle: administrative data to be used when it leads to a better balance between relevance, quality, cost and respondent burden

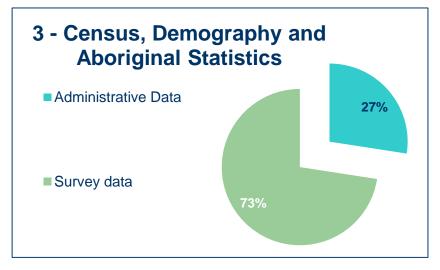


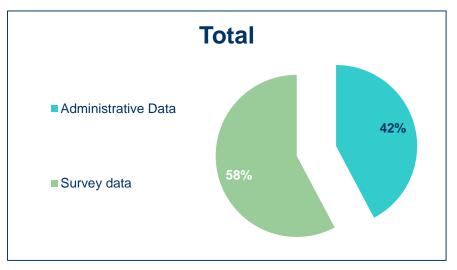


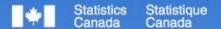
### **Current use of administrative data**





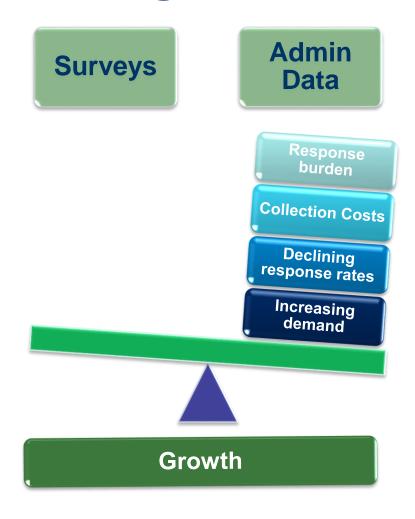








## **Need for a change**





# Five pillars to a long term strategy

Statistics Canada influences, has access to and makes maximum possible use of administrative and alternative data in its statistical programs, resulting in reduced response burden, lower costs, improved quality and new data series for users, while maintaining public trust.

#### Governance

- Policies, directives and business rules ensure a coherent approach
- Organizational changes ensure focused responsibility and accountability for corporate approaches

#### **Partnerships**

- With Source organizations governance facilitates influence
- Providing skills and expertise in exchange for data
- With collaborators

   shared risk in
  research
- Best practices

#### Communications

- With citizens promotes transparency to address privacy concerns
- Within NSO promotes successful strategies and best practices

#### Knowledge

#### Skills, Tools

- Understanding the potential and limitations of new data
- Recruiting and developing "data scientists"
- Tools and processes to accelerate use of new data e.g. quality evaluation framework

#### Research &

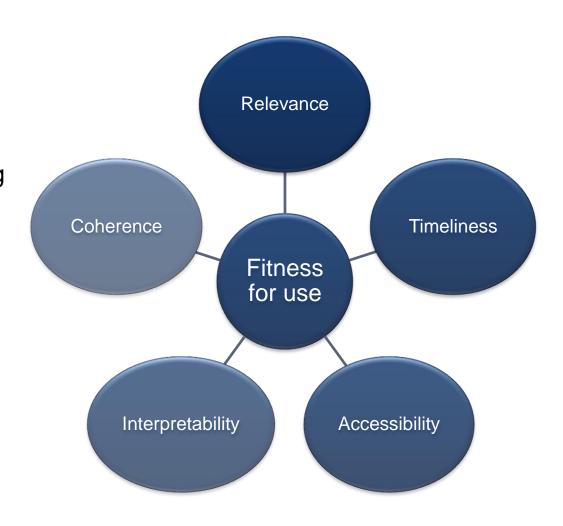
#### Development

- Using existing data in new ways
- Using new data sources to assess feasibility and quality
- Avoid the "all or nothing" approach

### **Quality Evaluation Framework**

Time is the most significant challenge in adopting new sources

- A quality evaluation framework assists in making a business case for investing time, capacity and resorces in acquiring a new data source
- Increases probability of usefulness of potential sources
- Establishes consistent practices in evaluating potential source data











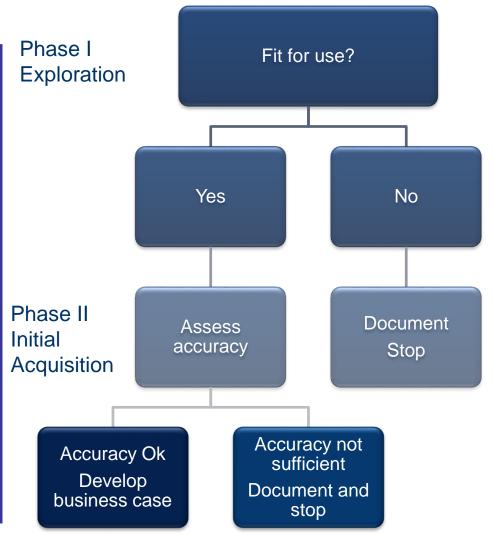
## **Quality Evaluation Framework**

#### Exploration phase – no data

- Assess dimensions of quality
  - Relevance
  - Timeliness
  - Accessibility
  - Interpretability
  - Coherence
- 3 components:
  - Institutional environment
  - Quality of file for use
  - Impact on statistical process

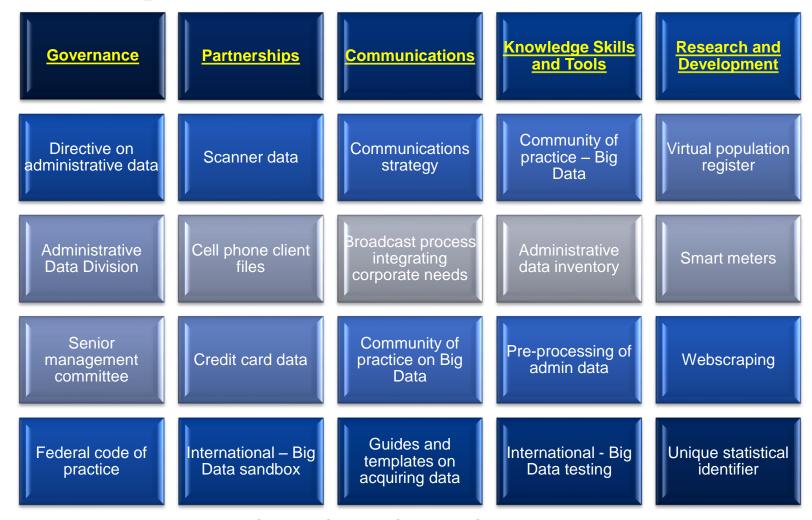
# Initial acquisition phase – some data

- Evaluation of accuracy
- Validate information from Phase I





## A sample of current and future work







## **Risks and Challenges**







### **Additional contacts**

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