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DEVELOPMENT OF AN INTEGRATED BUSINESS STATISTICS PROGRAM

2011 European Establishment Statistics Workshop – EESW11

Jean-Francois Carbonneau, Statistics Canada

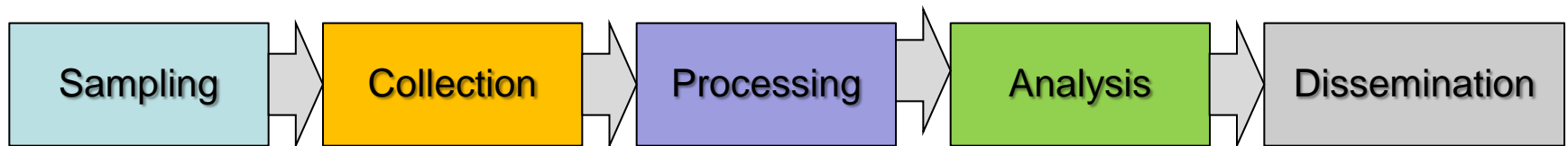
Neuchâtel , Switzerland, Sept 12th 2011

Corporate Business Architecture Initiative at Statistics Canada (CBA)

- Integrated Business Statistics Program
 - Rational for the redesign
 - To achieve efficiencies
 - Enhance quality assurance
 - Improve responsiveness in the delivery of new programs
 - Covers all aspects of the business surveys
 - Sampling, Questionnaire Design and Post Collection
 - 130 surveys in 10 different programs integrated by 2016

Required changes to the Current Business Model

- Iterative business model



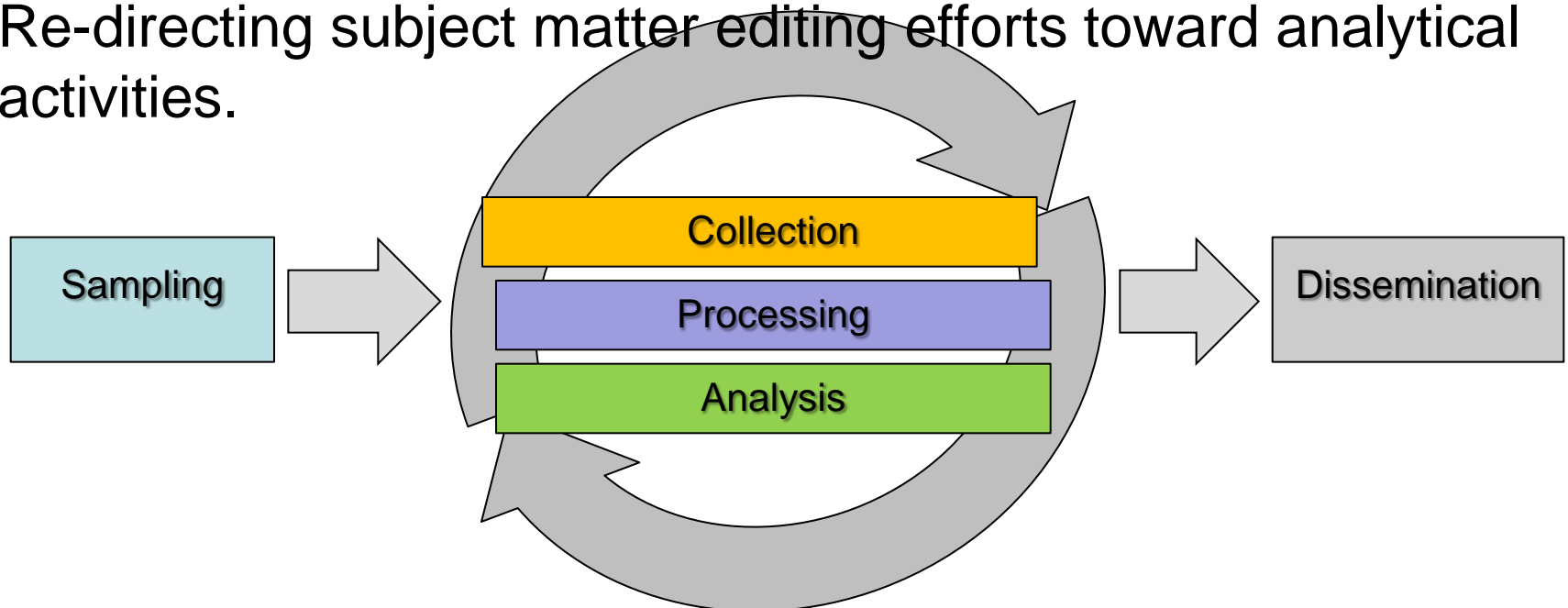
- Prioritizing collection follow-ups
- Reduce the manual interventions
- Estimates and quality indicators produced more than once during the production cycle
- Heterogeneous micro and macro-editing strategies

Other Required changes to the Current Business Model

- 2 Phase Sampling
- Modular approach to questionnaire
- High level of data transfers – Duplication of the information. Difficult to Maintenance
- Capacity to Manage the Metadata – Centralization of Metadata

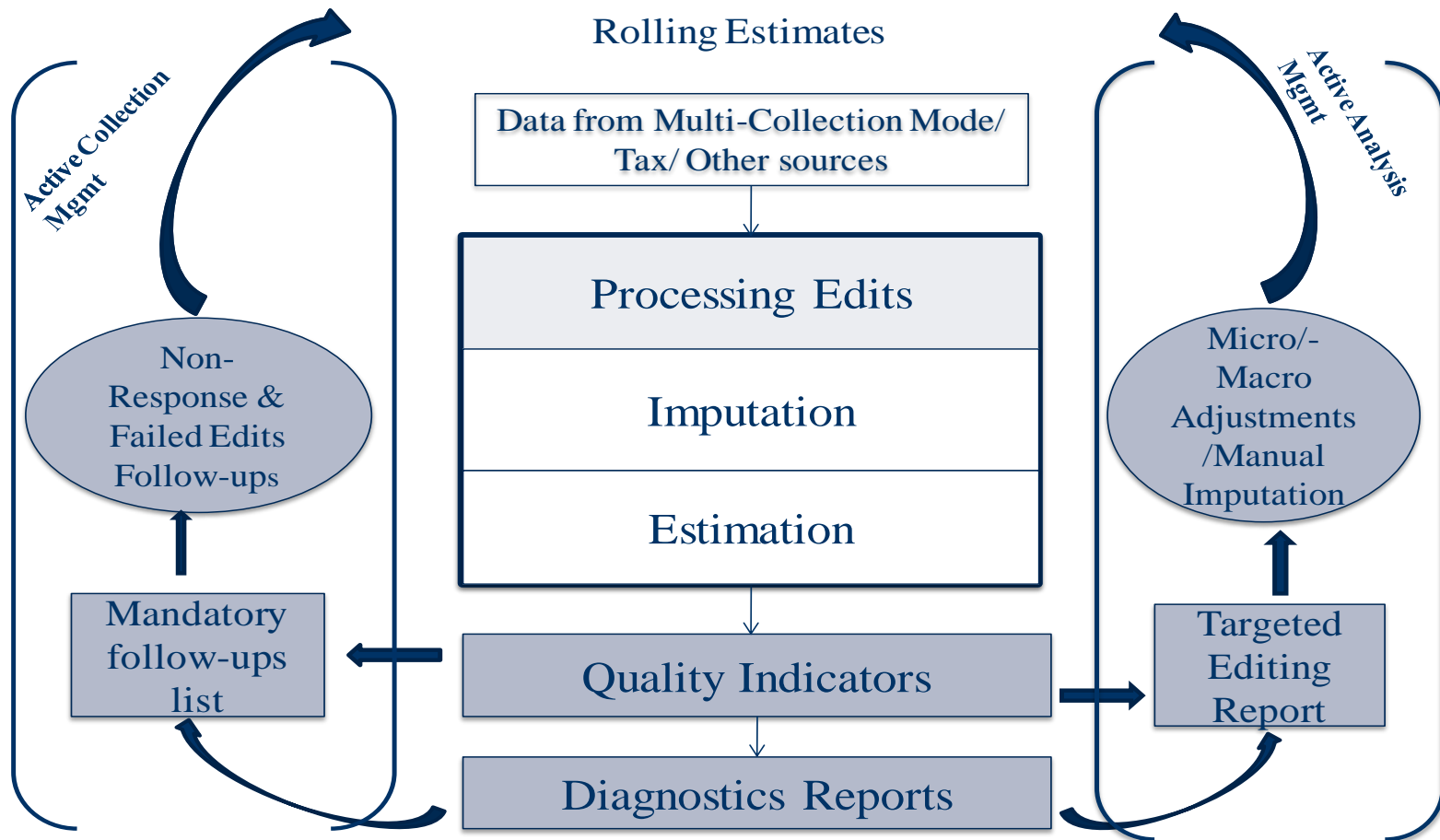
Additions to the current Model

- Optimizing the editing work done by both collection services and post collection
- Improved timeliness of survey results.
- Re-directing subject matter editing efforts toward analytical activities.





The Common Editing Strategy



Generalized systems and Analytical tools

- Mandatory use of shared and generic corporate services and systems for processing, analysing disseminating and storing statistical information for business programs.
- All systems must be metadata driven and repositories for the metadata must be developed. It is also important that a common platform be used by the majority of systems, to avoid the need for data transformation steps



Project Management Challenges

Very Strong Governance .

It's all about integration

Use of Prototypes- proof of concepts

Re-use – Thanks but no thanks

First simulation of the Rolling Estimates

A parallel run Summer 2011

- Introduction of a basic version of Rolling Estimates and Common Editing Strategy for the 58 UES surveys in 2011 (parallel run)
 - 4 iterations
 - Production of QIs (weighted response rates and CVs) and MIs
 - Based on 5 key variables
 - Derive thresholds defining influential units to maximize quality under a given collection budget.
 - Measure potential impact on the collection / editing effort for given quality targets
 - Simulations to be repeated in 2012 and 2013.
 - Testing Tax data Allocators on the Business Register
 - Analytical tool SASEG