

# Standards based approach to integrated Statistics

Nissa Kenney, Assistant Director, Enterprise Statistics Division

Cory Chobanik, Director, Centre for Statistical and Data Standards

October 25<sup>th</sup>, 2023



Delivering insight through data for a better Canada



Statistics  
Canada Statistique  
Canada

Canada

**20%:** Percentage of web traffic that views our standards pages

**700+:** active standards that are published on our website used by programs and others. New standards continually published.

**98%:** Percentage of international standards with which Statistics Canada conforms

**Nationally** recognized as a leader in terms of standards, involved in transformative standards initiatives (**AI and Data Standards Collaborative**, etc.)

**Mandate:** Promote sound statistical standards and practices

**100+:** External engagements on Standards (2022-2023)

**Enabling Products:** Access the standard using various formats. Publication of **correspondence tables and variants, and full documentation.**

**Implementation:** Evolving infrastructure products and services that facilitate **implementation of standards** (ex. Reference Data as a Service, SDMX, Metadata Ecosystem, etc.)

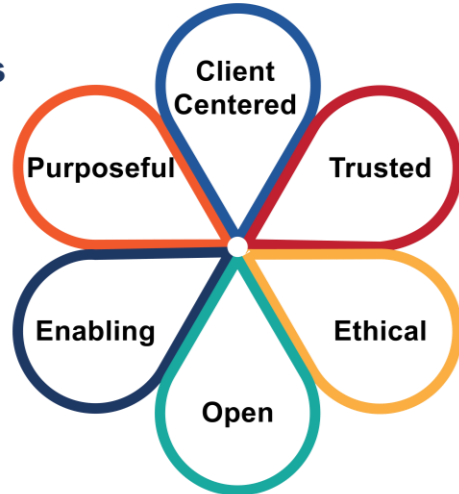
# Statistical Standards <sup>2</sup>



# GC Enterprise Data Governance Framework

## Data strategy framework for the federal public service

### Guiding Principles

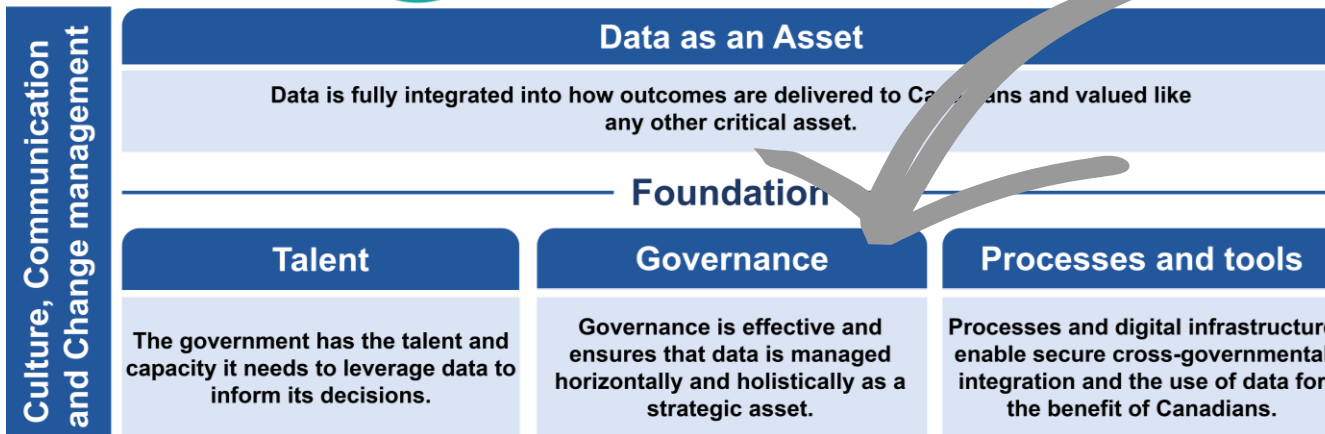


### Desired outcomes

- Effective, equitable, ethical and inclusive services, programs and policy
- Trusted and accountable government
- Greater public value from data
- Enhanced evidence-informed decision-making
- Support for Indigenous data sovereignty

Immediate action on data standards is needed as we move towards data strategy implementation

It is the foundation for other actions items



# Standards in Action: Use Cases

## Disaggregated Data Action Plan

This plan will lead to detailed statistical information to highlight the experiences of specific population groups, such as women, Indigenous peoples, racialized populations and people living with disabilities.

## Canadian Centre for Energy Information

The Canadian Centre for Energy Information (CCEI) is a convenient one-stop virtual shop for independent and trusted information on energy in Canada.

## Quality of Life

The Quality of Life Framework for Canada brings together data for approximately 85 key indicators on the well-being of people in Canada.

## Pan Canadian Health Data Strategy

Reliable, timely and relevant public health data are crucial to help public health officials provide their best advice in public health emergencies. Good health data also leads to improvements in health outcomes for Canadians in the longer term.



# What is the IBSP?

- The Integrated Business Statistical Program was launched with the goal of achieving operational efficiencies and improved quality
- Covers all statistical processes from sampling to estimation
- Metadata-driven system
- Continuous system enhancements
- Optimal use of corporate services (IMDB, Generalized systems, Business Collection Portal....)
- Covers 130+ economic surveys



# Applying Standard Classifications

- Full benefits of an integrated approach can only be obtained by also implementing a harmonized conceptual framework.
- For IBSP, this begins with the application of standards.
- All IBSP surveys must apply statistical standards including:
  - North American Industrial Classification System (NAICS) 2022
  - North American Product Classification System (NAPCS) 2022
  - Standard Geographic Classifications (SCG) 2021
- Variants or special aggregations must be approved by Standards Division.
- IBSP system loads and stores new classification to be used in all downstream processes.

# Applying Classifications in IBSP

Language Variable Display Preferences Help

Navigation Control Pane

Tools SPI Settings Universal Settings

- Universal Settings
  - Processing
    - Manage Scheduler
    - Manage Scheduled Groups
    - Archived Scheduler
  - Content
    - Manage Variables
  - Survey Processing Entities
    - Manage Survey Processing Entities
    - Manage Survey Processing Instances
    - Manage Survey Processing Entities Snapshots
  - Business Classifications
    - Manage Import External Classification
    - Manage Business Classifications**
    - Manage Business Classification Concordance
    - Manage Unit of Measure Codeset
    - Manage Unit of Measure Codeset Conversion
  - Edit & Imputation
    - Manage Processing Edits
    - Manage Processing Edit Groups
    - Manage User Defined Specifications
    - Manage User Defined Specifications Groups
    - Replace Processing Edit Groups

Manage Business Classifications

Business Classifications Definition

Classification Category: Industrial Classification Source: IMDB

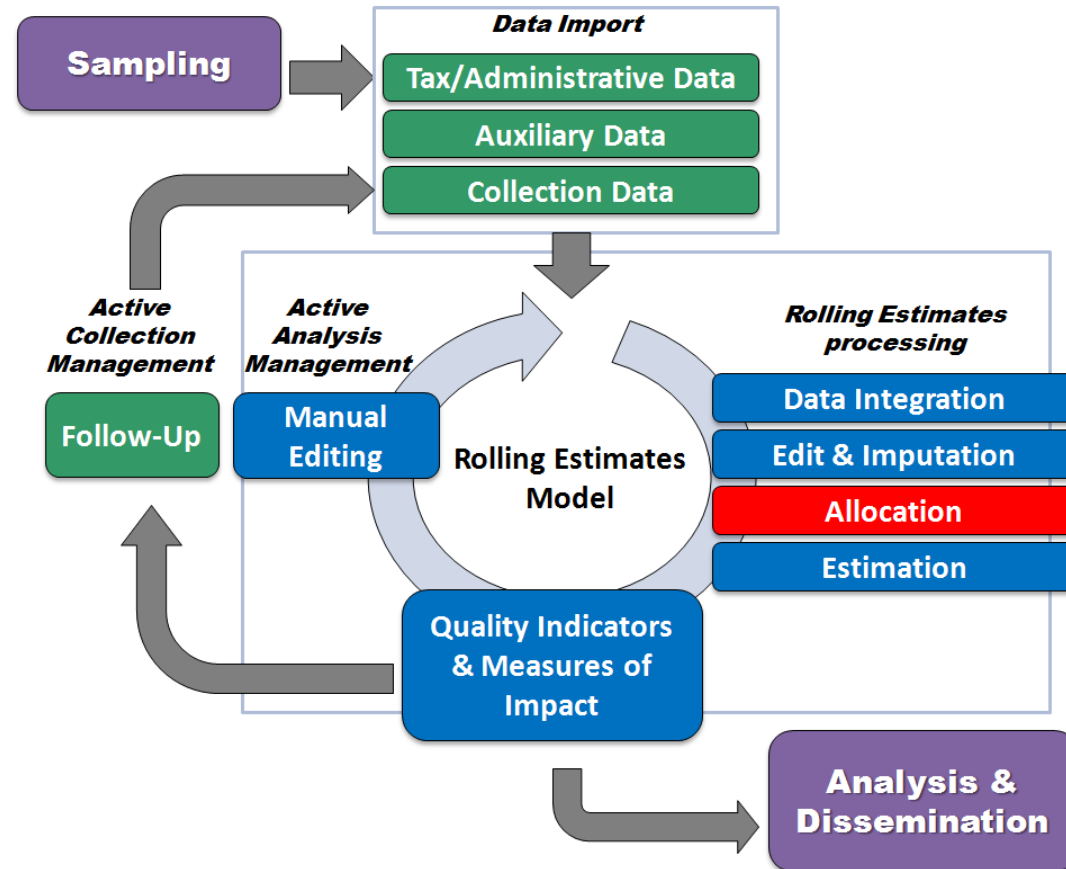
English Description: French Description:

Classification Type: Special Aggregation Manage Classification

Classifications

Category	Sour	Type	English Description
Product Classification	IMDB	Base Classification	North American Product Classification System (NAPCS) Canada 2022 Version 1.0
Product Classification	IMDB	Base Classification	North American Product Classification System (NAPCS) Canada 2017 Version 2.0
Product Classification	IMDB	Base Classification	North American Product Classification System (NAPCS) Canada 2017
Product Classification	IMDB	Base Classification	North American Product Classification System (NAPCS) Canada 2012, Extension Variant for Flowers and Plants
Product Classification	IMDB	Base Classification	North American Product Classification System (NAPCS) Canada 2012 Version 1.1
Industrial Classification	IMDB	Base Classification	North American Industry Classification System (NAICS) Canada 2022 Version 1.0
Industrial Classification	IMDB	Base Classification	North American Industry Classification System (NAICS) Canada 2017 Version 3.0
Industrial Classification	IMDB	Base Classification	North American Industry Classification System (NAICS) Canada 2017 Version 2.0
Industrial Classification	IMDB	Base Classification	North American Industry Classification System (NAICS) Canada 2017
Industrial Classification	IMDB	Base Classification	North American Industry Classification System (NAICS) Canada 2012
Industrial Classification	IMDB	Base Classification	North American Industry Classification System (NAICS) 2007
IBSP Codeset	IBSP	Base Classification	Non-metallic minerals products

# Maximize use of standards across all business processes





# Developing Standardized Content

- Numerous financial variables are common across many economic surveys.
- By harmonizing the definitions of these variables and systematically applying standards, common content has been developed and implemented across various programs.
- The IBSP content model is based on a series of generic modules; revenue, expenses, employment, purchased services....
- This approach plays a critical role in creating coherence across programs and in minimizing the amount of effort required to build, test and implement survey content.

# Developing Standardized Content

- Objective of the IBSP is to maximize the use administrative data to its fullest potential
- This guided the development of questionnaire content in order to ensure financial variables could be replaced with tax.
- Also needed to ensure that the data needs (primarily the system of national accounts) were met using administrative data.
- COA variables, which are directly linked to tax concepts are mapped to content variables.

Sub-contract expense variable		
IBSP	COA	GIFI
F62503	5.1.2.2.04	L8360+L9061+L9110+L9798



# Thank you

Nissa Kenney

[Nissa.Kenney@statcan.gc.ca](mailto:Nissa.Kenney@statcan.gc.ca)

613-698-3014

Cory Chobanik

[cory.chobanik@statcan.gc.ca](mailto:cory.chobanik@statcan.gc.ca)

613-697-2679

