



Architecture Framework Advisory Committee (AFAC)

Enabling the Government of Canada's Enterprise Data Strategy
(Data Strategy Roadmap)

June 14, 2019



Shared Services
Canada

Services partagés
Canada

Canada

Purpose

To obtain feedback from Architecture Framework Advisory Committee (AFAC) members on:

- Benefits, impacts, and best practices pertaining to the enablement of an enterprise data strategy, data management platforms, and best practices to help the Government of Canada (GC) prepare for implementation and better support new services for Canadians.

Agenda

- Drivers
- Context/Problem Statement
- Discussion Points



Drivers

There are a number of key drivers for adopting an enterprise data strategy/data management platforms:

Citizen Expectations	Security	Service Delivery	Technology
<ul style="list-style-type: none">▪ Canadians want convenient, quick, and responsive access to <u>information</u>, programs, and services.▪ Data- and evidence-based decision making	<ul style="list-style-type: none">▪ The threat environment is evolving and becoming increasingly sophisticated, requiring proactive protection and strategies.	<ul style="list-style-type: none">▪ Canadians expect seamless service delivery regardless of who is delivering it.	<ul style="list-style-type: none">▪ Adoption of new technologies and migration to common shared infrastructures drives the need for a streamlined approach.

Context/Problem Statement

Context

As outlined within the government's Data Strategy Roadmap, the GC is championing the development and implementation of world-leading data management platforms as it shifts to mature its data analytics and seamless information exchange capabilities. As a result, the GC recognizes the need to transform its architecture and underlying IT infrastructure to support this objective, manage its downstream effects, and support new services for Canadians.

Problem Statement

How are you optimizing, promoting, and delivering efficient and secure data management processes and platforms guided by optimal and standardized approaches?



Discussion Points - Round Table 1/2

1. How has the adoption of an enterprise data strategy/platform impacted your business?
 - What were the key transition, data governance, and technology implications?
 - How did you approach data stewardship?
2. How do you balance data security and privacy considerations with the need for open access to data?
3. How have you prepared your existing IT infrastructure and development processes to meet the demands of an enterprise data management platform, such as a data lake?
 - What were the high-performance computing, resource allocation, and network connectivity considerations at play?
4. How have you implemented horizontal data transparency across your data lake to ensure appropriate data? For example, how have you addressed data integrity, lifecycle management, and classification based on business/archival/transitory value?

Discussion Points - Round Table 2/2

5. How have you leveraged data schematics/categorization to avoid data lake swamps (e.g., searchability, indexing, and metadata)?
6. What are the key advantages/disentangles pertaining to both structured and unstructured data methodologies (e.g., no SQL)?
7. What are the key types of skillsets, and the proportion thereof, that the GC should look at employing to best enable its data strategy (e.g., data scientist, AI experts, algorithm/pattern developers)?
8. How do you anticipate data management platforms might best improve services the GC provides to citizens or employees (e.g., open data initiatives, evidence-based decision making)?

