



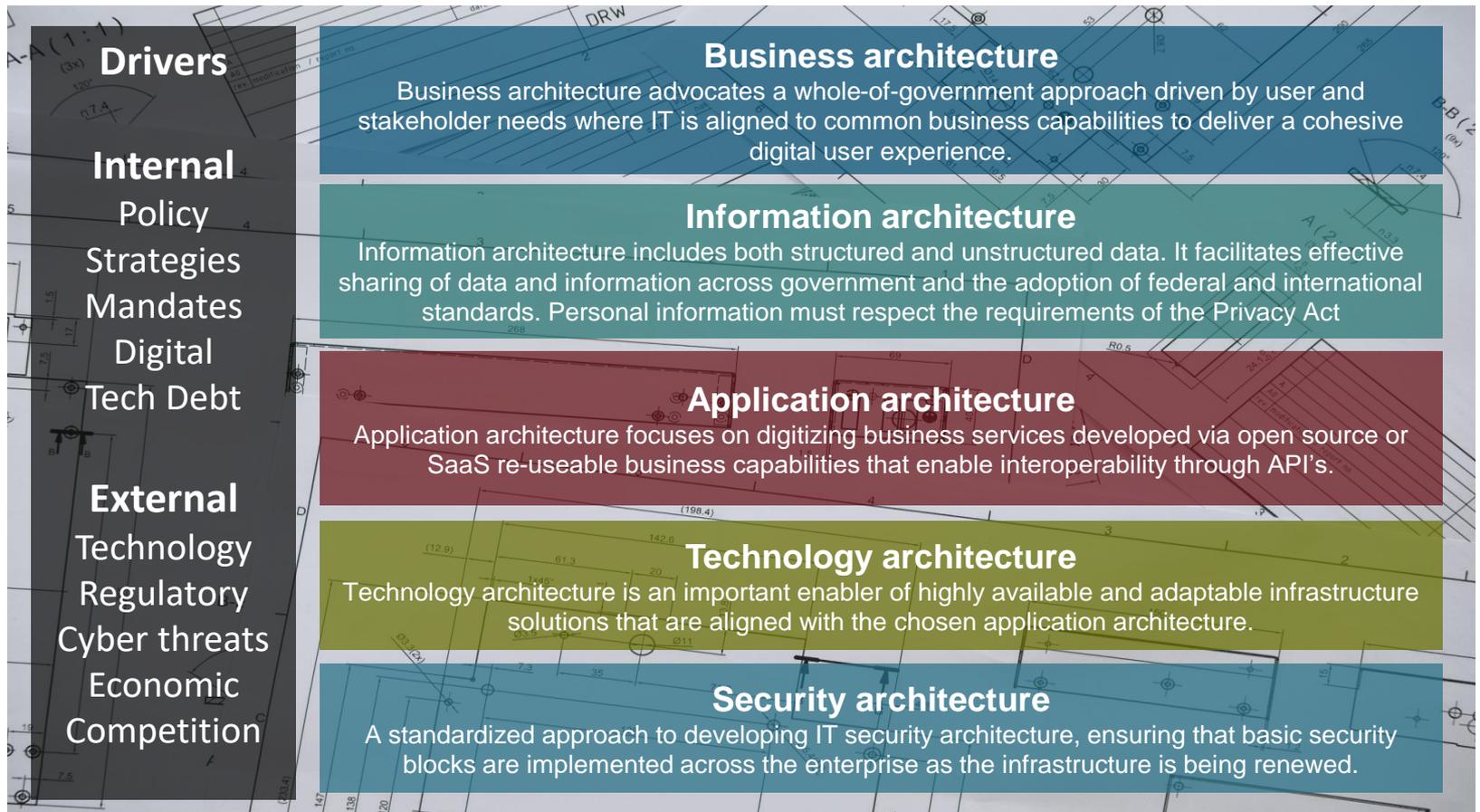
GC Enterprise Architecture

Overview, Policy Requirements and Its Role in shaping the
Digital Transformation of the GC

June 15, 2022

GC EA overview

Enterprise Architecture (EA) is a conceptual blueprint that defines the structure and operation of an organization considering and aligning business, information/data, application, technology, and security domains to support strategic outcomes.



GC EA: policy requirements

Policy on Service and Digital

The Chief Information Officer (CIO) of Canada is responsible for:

- Prescribing expectations with regard to ***enterprise architecture***.
- Establishing and chairing an ***enterprise architecture review board*** that is mandated to ***define current and target architecture standards*** for the Government of Canada and ***review departmental proposals for alignment***.

Directive on Service and Digital

The departmental Chief Information Officer (CIO) is responsible for:

- Chairing a departmental architecture review board that is mandated to review and approve the ***architecture*** of all departmental digital initiatives and ensure their alignment with ***enterprise architectures***.
- Submitting to the Government of Canada ***enterprise architecture review board*** proposals concerned with the ***design, development, installation and implementation of digital initiatives that:***
 - Exceed certain Investment and OPMC thresholds
 - Involve Emerging technologies
 - Require an exception
 - Have a deployment model other than public cloud
 - are directed by the CIO of Canada

Role of TBS GC Enterprise Architecture

To fulfill the GC EARB mandate, OCIO Enterprise Architecture collaborates with the extended EA team (SSC, CCCS, and Cyber) and departmental architects to:



Develop Target Architecture Standards across Business Information Application Technology Security



Guide implementation of the Enterprise Architecture Framework as the criteria used by GC EARB when reviewing digital initiatives to ensure their alignment with enterprise architectures



Networks of expertise Leads Enterprise Architecture and Open Source Consolidates content from Data, Cloud, Digital workspace & Cyber to develop enterprise solutions and share best practices



Early engagement pre-GC EARB date to co-architect proposals with Departments for alignment to the Enterprise Architecture Framework, Target State Architecture and Enterprise Solutions

GC Enterprise Architecture Framework

The Enterprise Architecture Framework is the criteria used by the Government of Canada enterprise architecture review board and departmental architecture review boards when reviewing digital initiatives to ensure their alignment with enterprise architectures across business, information, application, technology and security domains to support strategic outcomes.

Business architecture

- Design services digitally from end-to-end to meet Government of Canada users and other stakeholders' needs
- Architect to be outcome-driven and strategically aligned to the department and to the Government of Canada
- Promote horizontal enablement of the enterprise

Information architecture

- Collect data to address the needs of users and other stakeholders
- Manage and reuse data strategically and responsibly
- Use and share data openly in an ethical and secure manner
- Design with privacy in mind for the collection, use and management of personal Information

Application architecture

- Use open source solutions hosted in public cloud
- Use software as a service (SaaS) hosted in public cloud
- Design for Interoperability

Technology architecture

- Use cloud first
- Design for performance, availability and scalability
- Follow DevSecOps principles

Security architecture

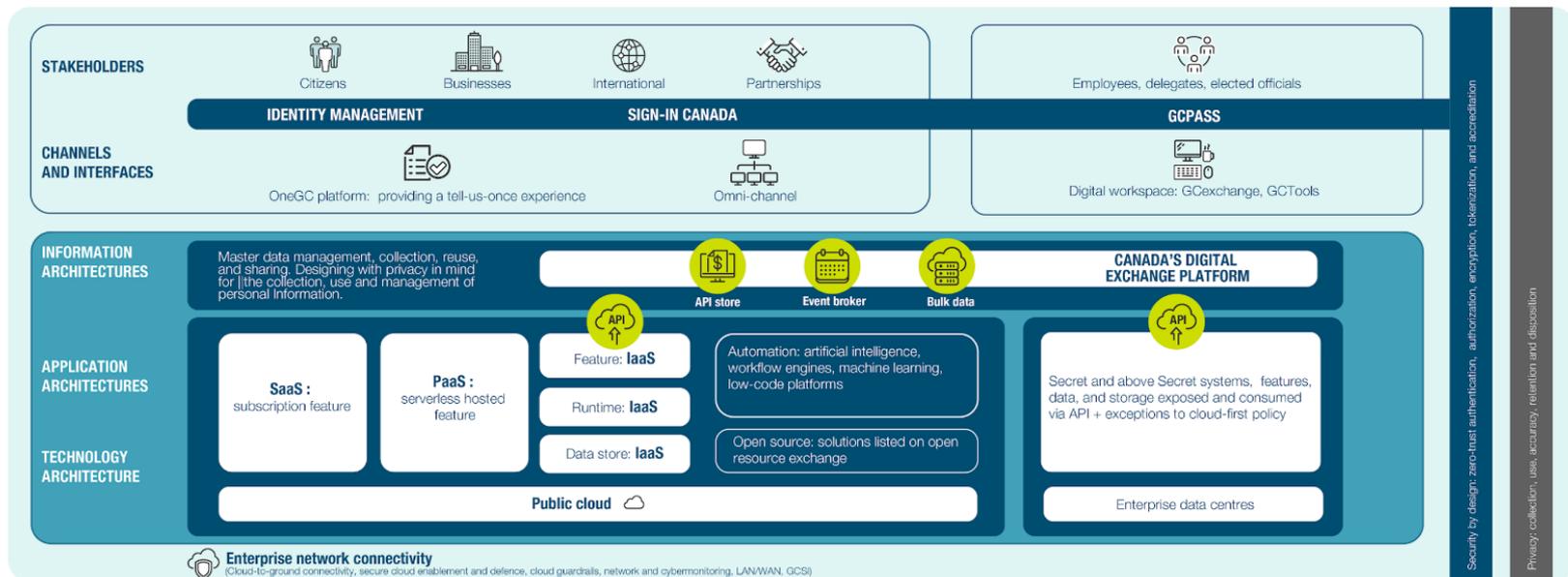
- Build security into the system life cycle across all architectural layers
- Ensure secure access to systems and services
- Maintain secure operations

Service and Digital Target State Enterprise Architecture

Defines a strategic model for the digital enablement of GC services that:

- promotes a whole-of-government approach and a cohesive user experience
- aligns IT with business services
- advocates solutions that are based on reusable components to reduce redundancy
- adopts modern and innovative technology and reduces technical debt

Service and Digital Target Enterprise Architecture



LAUNCHED



March 17, 2017

GC Enterprise Architecture Review Board (GC EARB)

First Department initiative presentation @ GC EARB (GAC)

Oct 2017

TBS OneGC Vision & Way Forward

Dec 2017

TBS Sign-in Canada concept

Apr-2018

SSC Network Reference Architecture

Jun-2018

GC API standards and store

Apr 2019

SSC/TBS Mainframe Strategy

Jun 2019

TBS/SSC Digital Workspace and Supporting Standards

Oct 2019

TBS/SSC Cloud connection Patterns

Dec 2019

TBS Decision making Framework for Enterprise Solutions

June 2020

ESDC Benefits Delivery Modernization Update

March 2021

SSC Next Generation HR Pay

May 2021

Bi-weekly meetings chaired by SSC and OCIO CTOs -- 85 meetings covering 467 agenda items*

Jul 2017

GC Business Capability Model

Feb 2018

TBS Cloud Reference Architecture

Dec 2018

TBS Digital Standards and Mandatory Procedures for EA Assessment

Oct 2019

TBS Open Source Policy and Whitepaper

Jan 2020

TC Known Traveller Digital Identity Program

Nov 2020

TBS EA framework and Service & Digital Target Enterprise Architecture

Aug 2021

PSPC GC eCommerce

Nov 2017

Strategic Plan formally announces GC EARB

May 2018

GC Enterprise Data Architecture

Aug 2019

PSPC GCcase roadmap to the Cloud

Dec 2019

SSC Secure Cloud Enablement and Defense

Oct 2020

IRCC, Digital Platform Modernization

April 2021

PHAC National Vaccine Management IT Platform (postponed to Nov.)

*as of September 2021

Putting it All Together: EA Points of Influence

EA focus is GC EARB but also reviews and inputs across all processes



ONGOING OCIO POLICY GUIDANCE, STRATEGIC ADVICE AND SUPPORT

DIRECTION

BUSINESS PROBLEM/
IDEATION

DESIGN

TB AUTHORITIES

EXECUTION

**MEMORANDUM TO
CABINET**

What decision is being sought from cabinet, i.e., what is the problem to be solved?

What is the recommended option and its context?

Does the proposed solution have *implications for OCIO*?

CONCEPT CASE
Mandatory Procedure

Has the problem or opportunity been well defined?

Is there a clear vision of the desired business outcomes and future state?

Is the opportunity applying the *Digital Standards*?

GC EARB
Directive

Is the initiative aligned to the *EA framework*?

Is the initiative defining a new *target architecture standard*?

Is the initiative aligned to *enterprise solutions*?

TB SUBMISSION
Authorities

Does the initiative and/or project comply to **TB policies**?

Is it aligned with **GC Strategies**?

Has the project been to **GC EARB**?

PROJECT OVERSIGHT
Ongoing Project Monitoring

Is the project positioned for success?

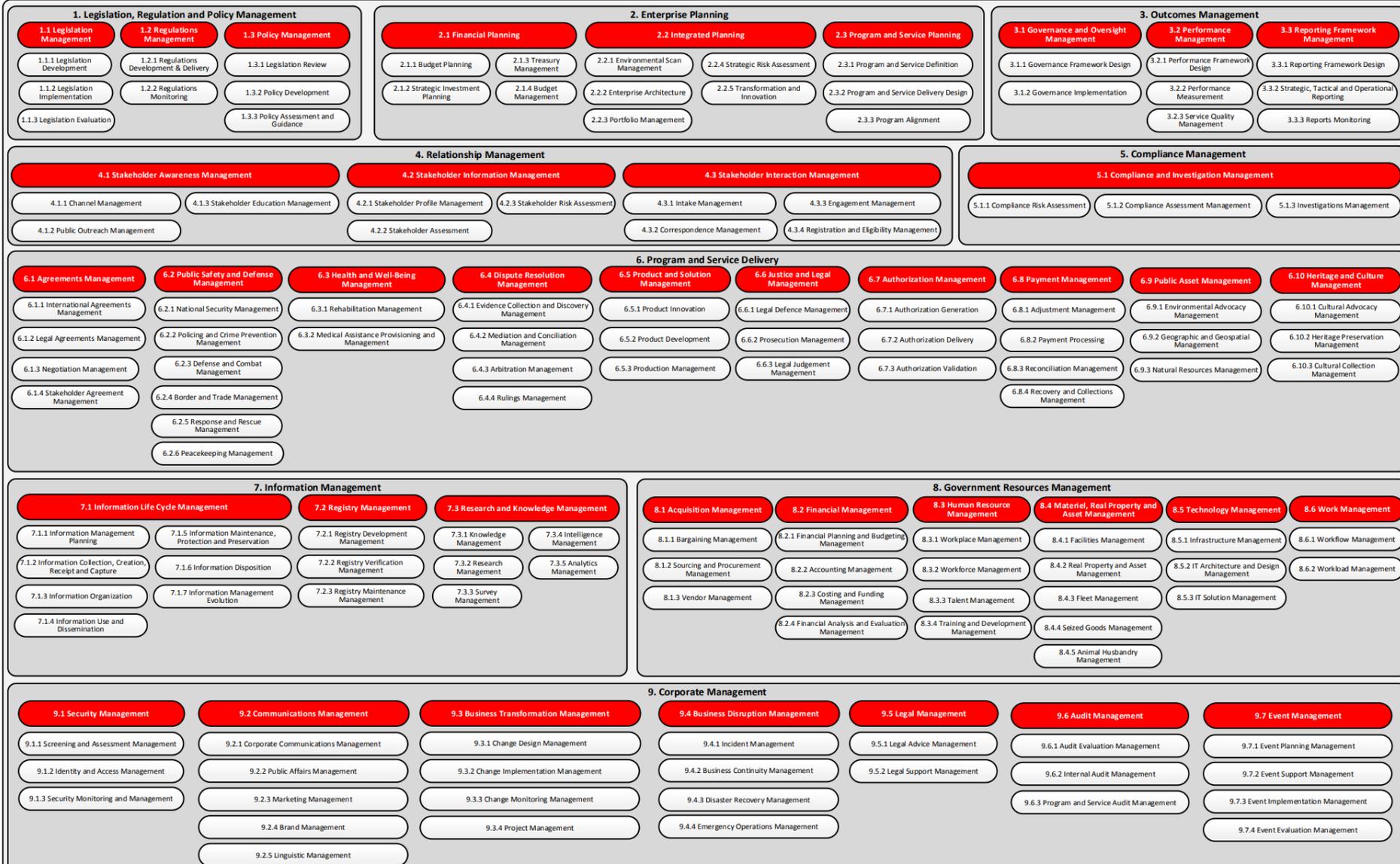
Are course corrections needed?

APPLY LESSONS LEARNED

Government of Canada Business Capability Model

Government of Canada – Business Capability Model – v2.0

Last updated: June 17, 2019



References

[GC Enterprise Architecture](#)

[GC Enterprise Architecture Review Board, GC EARB](#)

[GC Service & Digital Target Enterprise Architecture](#)

[Government of Canada Enterprise Architecture Framework - Canada.ca](#)

[GC Enterprise Architecture/Business Capability Model - wiki \(gccollab.ca\)](#)

[GC Enterprise Architecture/Enterprise Solutions - wiki \(gccollab.ca\)](#)

[GC Enterprise Architecture/Board/Past Sessions - wiki \(gccollab.ca\)](#)

[GC Enterprise Architecture/Board/Forward Agenda - wiki \(gccollab.ca\)](#)

[Policy on Service and Digital](#)

[Directive on Service and Digital](#)

[Digital Operations Strategic Plan: 2021–2024 - Canada.ca](#)