of Canada

EA GOVERNANCE AND LESSONS LEARNED IN SMALL DEPARTMENTS

CHRISTIAN SAUVÉ Public Service Commission **JUNE 2019**





ABOUT THE PUBLIC SERVICE COMMISSION

- Federal department, founded in 1908
- Mandate: Ensuring merit-based, non-partisan staffing within the GC
 - Most visible activities: GCJobs; Second-Language Assessments; Audits
 - Also: Staffing assessments, political activities authorizations; investigations
- Roughly 750 employees, 90\$M-100\$M budget
 - Gatineau headquarters + 4 regions: Halifax, Montréal, Toronto, Vancouver
- Information Technology Services Directorate (ITSD)
 - 100 Employees, 12\$M-14\$M budget
 - Three directors: Application development, Infrastructure, Corporate IM/IT
 - Roughly 15 projects at any given time, including 3-4 "major" ones.

ABOUT ENTERPRISE ARCHITECTURE AT THE PSC

- 2010-2012 (death by SSC & ETI), renewed 2015
- Housed within IT / Corporate IM/IT management
 - Strong integration with PMO, Planning, Client Business Services
- 4 positions: 1 manager, 2 technical specialists, 1 team lead
 - Sometimes a student limited usefulness in EA context
- Long-term plans to incorporate Business Analysts
- TOGAF training expected, provided
- Issue: Hiring and Retention
 - A good EA can do anything!



EA MATURITY LEVEL SELF-ASSESSMENT

- 2015: Level 1
 - Many oversight mechanisms in place, awareness, desire to move forward
- 2019: Level 2.5
 - Understanding of "What is Enterprise Architecture?" for the PSC
 - Strong integration with PMO, Planning, Governance
 - Issue: Staffing levels and ability to deliver
 - Issue: Informal focus on deliverables, not so much on EA standards
- 2020: Level 3
 - Sustainable staffing level and resilience, repeatable processes, more rigour
- No intention of aiming for level 4 or 5
 - Requires more resources than the PSC is reasonably expected to allocate
 - Impact: Limited appetite for EA repository, frameworks, meta-models

EA IN A SMALL DEPARTMENT

Challenges

- Constant need to prove business value
- Retention/Focus remains a challenge
- Jack-of-all-trades required
- Always do more with less
- Mandatory alignment with Treasury Board Secretariat (TBS) guidance

Opportunities

- EA guidance and framework from TBS is increasingly helpful
- Close alignment with PSC business lines
- Easier to establish the practice by taking over unwanted roles
- Easier to discuss issues with colleagues as colleagues
- Easier to shift the organization

THE ARCHITECTURAL REVIEW COMMITTEE

EA's Home Field: The weekly 90-minutes Architectural Review Committee (ARC)

- Long-time (<2005) "Technical Review Committee" taken over by EA in 2016
 - No governance re-invention = Easier fit
- Equivalent to a Departmental Architecture Review Board mandated by TBS, adapted for small organization purposes
- Chaired by EA Manager; voting members include all IM/IT managers
 - "Senior Technical Discussion Group"
- Blends operational review and architectural review
- "Architecture review as a habit, not an event"

Sample Agenda

PARTI - OPERATIONS

- 1 Welcome / Opening Remarks
- 2 Last meeting's minutes approval and <u>Action Items</u> Review
- 3 Change Approval Board (CAB) and DMC debriefs
- 4 Release Schedule
- 5 Operational items
 - ETI, Windows 10, Firewall Upgrade, SuSE server update
- 6 IT Security update

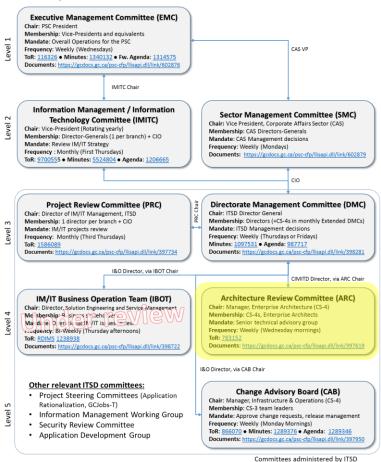
PART II - PROJECTS & ARCHITECTURE

- 6 Project Management Office Update
- 7 Committee Review: Arrivals, departures, agenda changes
- 8 Architecture items
 - New Software Intake Visual Studio Code https://gcdocs.gc.ca/psc-cfp/llisapi.dll/open/8026353
 - Architectural Review GCJobs Transformation Options Analysis
 - Overview of the newest changes to the *Directive on the Management of Information Technology*
 - Upcoming: DMC presentations, APerforM, Impromptu
 Replacement, updated roadmap roadshow, secure file transfer

9 • Roundtable / Closing

ARC'S ROLE IN IM/IT GOVERNANCE

IM/IT Governance Committees



- The PSC has a strong governance framework
- ARC makes recommendations to the ITSD Directorate Management Committee, which approves and/or refers to other businessinclusive committees such as the
 - Sector Management Committee
 - Mid-level corporate management
 - Project Management Committee
 - IM/IT Project management
 - IM/IT Management Committee
 - Senior IM/IT Strategy discussion; gateway to highest-level Executive Management Committee

Integration in project prioritization

- During the annual Project Prioritization cycle...
 - EA discusses all project proposals with the business clients
 - Using the TBS concept case template as basis for proposal submissions
 - EA ensures that projects are aligned with the enterprise
 - Occasionally modifies/merges proposals to ensure enterprise alignment
 - Writes "enterprise"-class project proposal
 - EA evaluates the technical alignment of the projects
 - EA alignment recommendations are discussed at the ARC; submitted to the CIO for input in the prioritization assessment
 - EA participates in the costing exercise
 - Submits assessments, provides EA involvement estimate for projects

INTEGRATION IN PROJECT MANAGEMENT

- Enterprise Architecture is explicitly included in the organization's Project Management Framework:
 - EA helps define the project in initial proposals
 - EA identifies interrelationships between projects
 - EA builds/oversees the options analysis when needed
 - Takes the lead in gathering requirements for enterprise projects
 - EA oversees and approves conceptual architecture when needed
 - ARC approval is embedded in gating mechanisms
 - EA oversees consistency of project alignment with plan

EA = CLIENT RELATIONSHIP MANAGEMENT

- EA is responsible for the application portfolio management (APM) role
 - Link between corporate standards and client relationships.
- Conscious decision to position EA as a third-level intake group, taking over requests that Helpdesk is not prepared to process
 - Early contacts lead to better project submissions
 - EA finds requests commonalities, and proposes enterprise solutions
- Software intake, analysis and recommendation
 - Speaking to business clients to find enterprise solutions
 - Enterprise Secure file transfer solution
 - Recent example: R/Rstudio, Python/Spyder for data analysis, distributed via Anaconda package manager
 - Exploring facets and consequences of software approval
 - The EA-built analysis framework for new software, based on previous experience, includes consideration of business requirements, enterprise sustainability, information management, cyber-security, application development and integration, server/desktop support, etc.

THE EA BLUEPRINT/ROADMAP

- Links mandate with IT capabilities and their implementation (blueprint)
- Illustrates 3-year IT plan (roadmap)
- Aware of the GC Capability Model but does not duplicate it
- "Layers" Business, Corporate, IM/IT, and GC capabilities
- Aligns with IT plan, APM, Technology Bricks
- Presented to other areas of IT, PSC
 - Used to show breadth of ITSD activities, approved projects, long-term plan
 - "Calling Card" of EA
- Changes frequently
- Now informs the planning cycle

Layer 1: PSC Priorities (Mandate and Priorities)

Layer 2: Business Capabilities (Directly Supporting Mandate)

Layer 3: Corporate Capabilities (Supporting the Organization)

Layer 4: IM/IT Capabilities (Supporting IM/IT Work)

Layer 5: GC Capabilities (Standards, tools and GC providers supporting the PSC)

Last updated: April 26, 2018 GCDocs 1243666 (Details: GCDocs 1389536)

CURRENT STATE (FY2018-19)

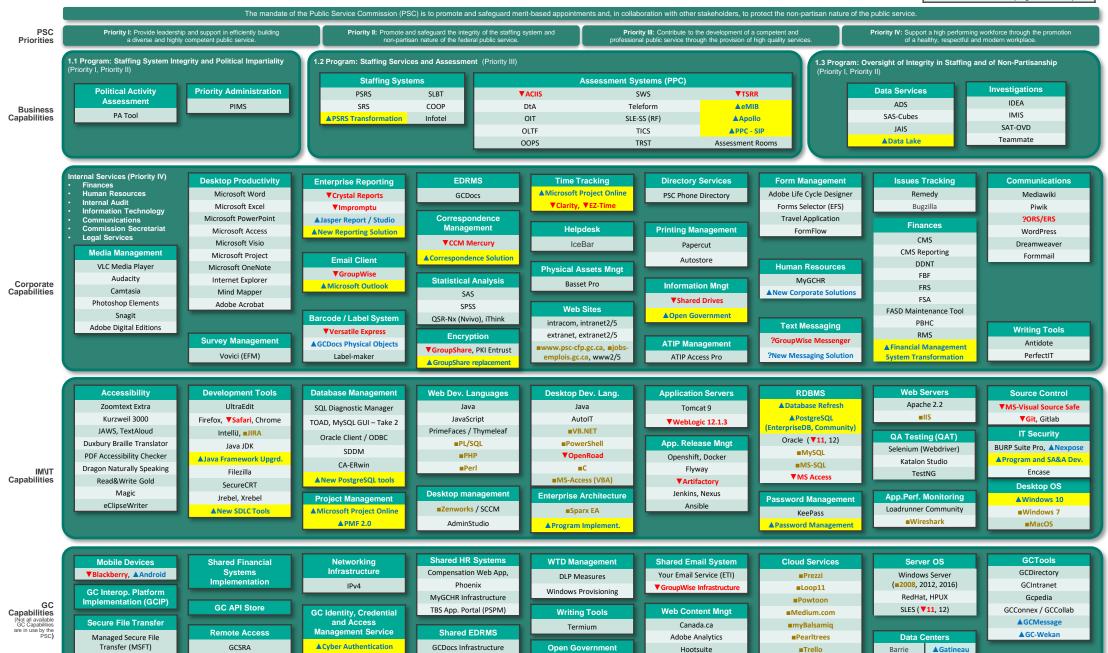
Primarily drawn from projects approved by EMC.

Color Meaning (TIME guidance)
Black In-use ("Invest")

A Blue New ("Innovate")

Brown Contained ("Tolerate")

YRed Obsolete/Retired ("Migrate/Eliminate")



POSITIONING EA AS AN ANALYTICAL TEAM

- The PSC hires Enterprise Architects primarily based on IT experience and analytical ability.
- "The X-Files": EA as a strategic think-tank for unusual requests
 - Emerging technologies
 - Recent example: Machine Learning approach
 - Senior Management requests
 - Recent examples: Intranet Renewal, Induction Loops, "What about this app?"
 - Cross-disciplinary requests packaging
 - Ongoing examples: Application Performance Management, Development Tools Renewal
- Minimize tactical input for projects. Focus on the enterprise strategic perspective that only EA can provide.

DISTRIBUTED ENTERPRISE ARCHITECTURE

- A small EA team cannot do it all by itself
 - It should also maximize its interventions focus on what only EA can do
- The solution: Distributed Enterprise Architecture
 - Create accessible, shareable, usable documentation
 - Become part of existing processes
 - Be clear, specific and predictable in what you require from others
 - Success metric: "I know what you're going to ask me..."
- Done correctly, the organization self-organizes around the basic principles of EA, allowing enterprise architects to focus on more complex value-added work
 - It also helps EA survive fallow periods

THE PRACTICAL EA SYMPOSIUM FOR SMALL ORGANIZATIONS

- When you can't quite find the right event for your learning plan...
 - "If you have \$3000 to send me to a conference, you have \$3000 to help me organize a conference"
- Keep scope focused: 50-60 seats for small-organization enterprise architects.
 - "This is like organizing a writers' convention"
- Find allies, speakers, or at least people who won't stop you.
 - HolT, SSC, TBS, PSC management
- Re-use internal resources: Conference room, Communication and Graphic design expertise, on-line registration tool, existing EA community forums and networks, Webex
 - Total cost for those: 0\$
- Spend the money on what matters most: the food
 - "You're eating my training budget"
- Result: 2-day informal conference, 50-60 on-site attendees (+Webex attendees), great speakers, a few tweets, happiness for all (including management)
 - "This was the first time Alex Benay re-tweeted me!"



LESSONS LEARNED

- 1. Staff adequately (at least 2 enterprise architects, preferably 3)
- 2. Take over tasks that no one else wants (APM, standards, IT plan)
- 3. Derive your authority from official documentation (thanks, TBS)
- 4. Hardcode EA governance in your own committee's decisions
- 5. Aim for the enterprise/strategic quadrant, not project/tactical
- 6. Become an early point of contact with business clients
- 7. Memorize, vulgarize everything coming from TBS/SSC/PSPC
- 8. As an architect, do the work that no one else can
- 9. Keep management happy so that they ask for more
- 10. Follow-through is crucial (there's a correlation with tenure)