#### **Open Standards and Open Source Software**

#### in the Government of Canada

OSSNA Vancouver 2018-08-31 - Sébastien Lemay



## Me – Sébastien Lemay

- FOSS User and Advocate
- Sysadmin, Developer, Strategic Partnerships
- @smellems
- DND, PCH, ..



#### Open Source Software and Strategic Partnerships

Treasury Board of Canada Secretariat Gatineau, Qc.

- sebastien.lemay@tbs-sct.gc.ca
- Shttps://www.smellems.com



## Treasury Board of Canada Secretariat (TBS)

- Chief Information Officer (CIO) Branch
  - Set standards for GC IM-IT and Digital
  - Office of the Chief Technology Officer (CTO)
    - Digital Collaboration Division (Digital Workspace)
    - Enterprise Architecture
  - Open Government, OneGC, ..
- Minister of Digital Government
- CIO : Open by Default

# History of OSS in the GC

GOSLING OISILLON

- 2002 GOSLInG
- 2004 Neutral Position on OSS
  - Federated Architecture Program
- 2009 CIOC business case for effective use of OSS
  - Web browser and desktop utilities
- 2012 NRCan FOSS Licensing Primer & NRC OSS Guidelines

## **Open Government Portal**

#### https://open.canada.ca

- Open Data & Open Information
- Open Dialog
  - Blogs, consultations
- Runs on OSS
  - CKAN, Drupal, Solr

https://github.com/open-data







## GCTools

- Started 2008
- Interdepartmental Collaboration Tools
  - Colleagues, Groups, Blogs, Discussions, Pages, ..
- Enable communites
- GCpedia and GCconnex
  - MediaWiki and Elgg
- Work in the open Agile dev and UX team
- Digital Collaboration Division
   https://github.com/gctools-outilsgc



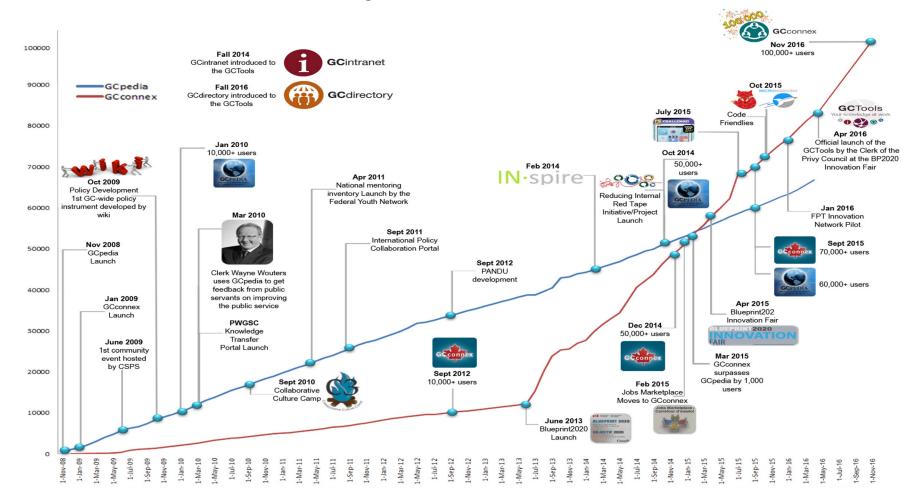


# **Blueprint 2020**

- Started 2013
- Principles
  - An open and networked environment
  - A whole-of-government approach
  - A modern workplace that makes smart use of new technologies
  - A capable, confident and high-performing workforce that embraces change
- Innovation
- Dragons' Dens
- Digital



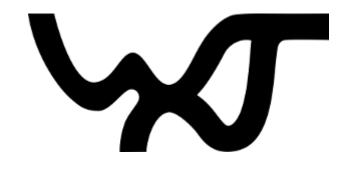
#### **Blueprint 2020 Effect**



# Web Experience Toolkit (WxT)

- Started in 2013
- Front-end framework for building websites
  - accessible, usable, interoperable, mobile friendly and multilingual
- Flexible and themeable templates and reusable components
  - GCweb/Intranet themes
- Open source project led by the Government of Canada

https://github.com/wet-boew



## GC FOSS community

• GCpedia, GCconnex, GCcollab, Message

Treasury Board Secretariat's position on Open Source Software

<u>CIO Sub-Committee on Open Source</u>
<u>Open Source Software (GCpedia)</u>

Wikipedia: Open Source (www)

• SSC AGORA meetups

Canada



Rabia Sajjad from our team (open government) will be there! 6 3 Mike Gifford @mgifford 10:16 AM For folks interested in learning Drupal or meeting with others in the com Drupal Meetup Thu., 16 Aug. 2018, 5:30 pm: Hello everyone, Drupaly Ioana Finichiu @IFinig 11:22 AM pause for dramatic effect I think we may have inadvertently scheduled our meetups at the same tir AFAIK, you can't be in two places at the same time. What will we do??? dramatically exit stage right Calvin Rodo (ESDC) @Cal 11:31 AM Does anyone have any official statements from TBS specifically asking for Or anything from anyone at ESDC asking for the same Guillaume Charest - TBS-SCT @guillaume.charest Owner 11:37 AM Calvin Rodo (ESDC) Nothing official yet... Still working with Legal on it Cal August 9, 2018 11:31 AM Does anyone have any official statements from TBS specifically asking They've been super supportive but there are some key guestions that nee Draft is still up for contributions though: https://github.com/canada-ca/oj \* canada-ca/open-source-contribution-logiciel-libre Canada open-source-contribution-logiciel-libre - Draft requirements

lan Ward @wardi 9:21 AM 🛛 🗷 🐻

## Open Government

- Foster greater transparency and accountability
- Cost-effective, efficient, and responsive government
- Open Data, Open Information, Open Dialog
- Open by Default!
  - Working in the Open
  - Open standards and OSS



## Open Government Partnership (OGP)

- 2012 Became Member
- 2017 Elected to Steering Commitee
- 2019 Hosting the OGP Global Summit in Ottawa

#### Commitments

https://www.opengovpartnership.org/countries/canada

## 4<sup>th</sup> Plan on Open Government : 2018-20

- Biennial plans for OGP
  - Consultations ended August 13th 2018

#### **Commitment on Digital Government and Services**

"Prioritize open source code in development and procurement of digital solutions"



# **Digital Government**

- New (first) Minister of Digital Government
- Great government services
  - Any service; Any platform; Any device; Any partner
- Improve the lives of citizens.
  - User-centric design shape services to their needs
  - Agility try new things, to learn as you go
  - Working in the open the more you share, the more you gain

## International Commitments

- Open Government Partnership
- Memorandums of Understanding
  - UK : Digital 7 Principles
  - Estonia : Digital Government
- Digital 7
  - Shares world-class digital practices
  - Identifies improvements to digital services
  - Collaborates to solve common problems
  - Supports the group's growing digital economies

Open Government Partnership

#### **Digital 7 Principles**

User Needs Open Standards Open Source Open Markets Open Government Connectivity Teach Children to Code Assisted Digital Share and Learn.

## Strategic Plan for IM and IT 2017-2021

New planned action

"Introduce a strategy for use of open source software and open standards"

- Development of a strategy to set direction for the government
  - use and release of open source software
  - open standards interoperability

https://www.canada.ca/en/treasury-board-secretariat/services/informat ion-technology/strategic-plan-2017-2021.html

## Enterprise Architecture Review Board (EARB)

- Set direction and Standards
- IM-IT projects must present at EARB

Endorsement

"Support the formalization of a common GC-wide approach to the adoption of open source within government, resulting in a more robust open community within the GC"

# **Open First Whitepaper**

- Inform EARB and TBS direction
  - Open Standards
  - Open Source Software
    - Use
    - Contribution
  - Open Markets
  - Open Culture (Organization)
- Benefits; Risks and Drawbacks; Best Practices

#### What happened?

- Started October 2017
- 120 Stars
- 330 changes (commits)
- 26 contribtors
- 55 issues with active discussions
- EARB endorsment for 1.0

https://github.com/canada-ca/Open\_First\_Whitepaper

### **Business Needs**

- Offer great digital services
- Working in the open by default
- Interoperability between systems
- Independence and substitutability
- Avoiding lock-in
- Attract digital talent and increase job satisfaction
- Provide public benefits to the public-at-large

#### Canadian Space Apogy Agency Open Ressource Exchange City of Montreal CKAN-Extension-Territoire Communications Assemblyline Security Establishment Communications Spartacus Security Establishment Environment and METRo Climate Change Canada National Research EGSnrc Council Canada Province of British Devex Columbia

- OSS used by GC
- GC OSS projects
- Provincial and municipal.
- Commitment in 4<sup>th</sup> plan on open Government •

https://canada-ca.github.io/ore-ero/

# **Digital Playbook**

Practical and detailed guidance to assist the Government of Canada in digital transformation and augmented service delivery

#### Views

- Agile, AI, Cloud, Open Gov, Architectural, Digital Standards, ...

https://canada-ca.github.io/digital-playbook-guide-numeriq ue

# **Digital Architectural Standards**

#### **Business Architecture**

- Align to the GC Business Capability model
- Design for Users First and Deliver with Multidisciplinary Teams

#### **Information Architecture**

- Keep Data Organized
- Enable Interoperability

#### **Application Architecture**

- Use Open Standards and Open Source Software by Default
- Maximize Reuse

#### **Technology Architecture**

- Use Cloud first
- Design for Performance, Availability, and Scalability

#### **Security Architecture and Privacy**

- Design for Security and Privacy
- Design Systems to be Measurable and Accountable

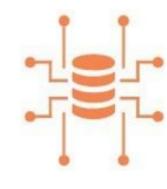
#### 3. Application Architecture

#### Use Open Standards and Open Source Software by Default

- Use open source standards, solutions, components, and leading practices
- Enforce this order of preference: open source first, then platform-agnostic COTS, then proprietary COTS, and lastly custom-built
- Make source code open and reusable under an appropriate open source software license
- Expose public data to implement Open Data and Open Information initiatives

#### Maximize Reuse

- Leverage and reuse existing solutions, components, and processes
- Select enterprise and cluster solutions over department-specific solutions
- Achieve simplification by minimizing duplication of components and adhering to relevant standards
- Inform the GC EARB about departmental investments and innovations
- · Share code publicly when appropriate, and when not, share within the Government of Canada



# More things..

- Ethical Artificial Intelligence (AI)
   OneGC
  - Code must be OSS
- API Standard & Data Strategy
  - Open standards
- Digital Standards
  - Digital Playbook

- Any service, device, platform

- Digital Policy
  - Single set of rules and guidelines for departments and agencies
  - Commitment in 4th plan on open Government (2019)

## **Open Accessible Digital Workspace**

#### A public space for the digital age

- Suite of integrated, multilingual & accessible tools
- Based on FOSS and open standards, the workspace connects people to each other and the information they need to work better
- By funding & contributing to new & existing open source projects, we can raise the bar for everyone
- By building together, we can create a diverse and inclusive space for all voices
- Free to use, re-use and free of advertising, forever.

#### **Existing Services**

#### **Concierge (account)**

https://account.gccollab.ca

Wiki (knowledge) https://wiki.gccollab.ca



#### **GCcollab (collaboration)**

https://gccollab.ca



#### **Message (instant messaging)**

https://message.gccollab.ca



# **Open First Day**

- September 28<sup>th</sup> 2018 Ottawa Online
- Executive stream
- Other streams
- Unconference
- Guillaume is here!

• https://canada-ca.github.io/ofd-joep

