OPENTEXT

Enabling the Digital World



Sink or Swim:

The New Realities of Open Collaboration and how Canada wins in the Digital Age

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Member of Open Government Committee Canada
March 31, 2016

olarch 31, 2016 Ottawa

Key Observations:

- Digital Disruption is removing barriers.
- The Internet is flattening the world and enabling global trade agreements.
- Innovation is a global game we must collaborate together to be globally competitive.
- Content is the core of collaboration. It is the digital "water in the water cooler". Open Government must lead in this regard for Canada.
- Intentional actions are required. Spontaneous Innovation does not happen. Canada once led and must now catch up.

Management Lesson

A crow was sitting on a tree, doing nothing all day. A small rabbit saw the crow, and asked him, "Can I also sit like you and do nothing all day long?

The crow answered: "Sure, why not. So, the rabbit sat on the ground below the crow, and rested. All of a sudden, a fox appeared, jumped on the rabbit and ate it.

Management Lesson:

To be sitting and doing nothing, you must be sitting very, very high up.



Built the Original "Google" in the mid 90s







based on university research



Jerry Yang CEO of Yahoo and Tom Jenkins CEO of Open Text launch in 1995.

Built Archives Which Became the "Deep Web" Inside Corporations



The Deep Web



The Public Web

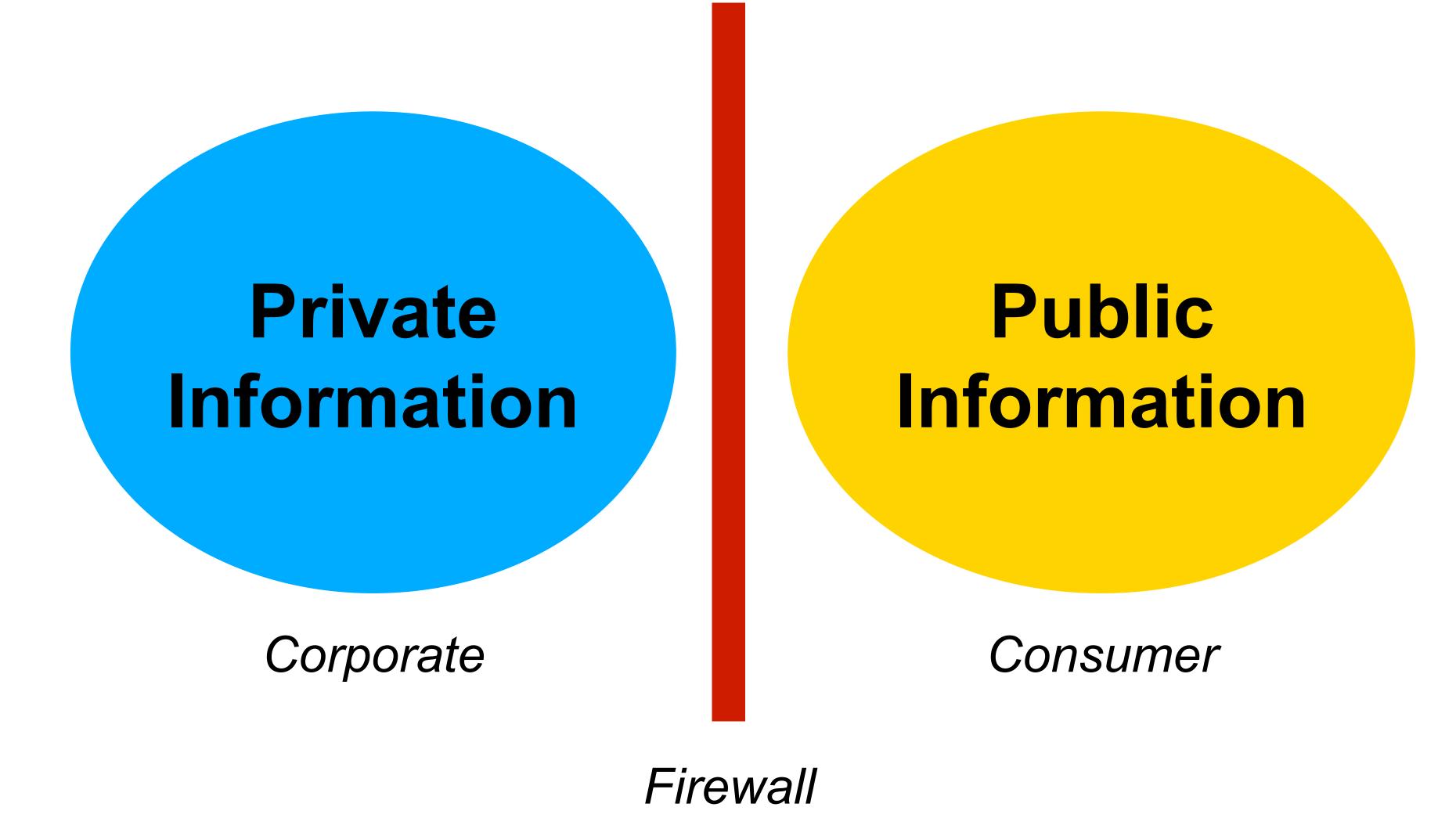
Only 4% of Web content (~8 billion pages) is available via search engines like Google



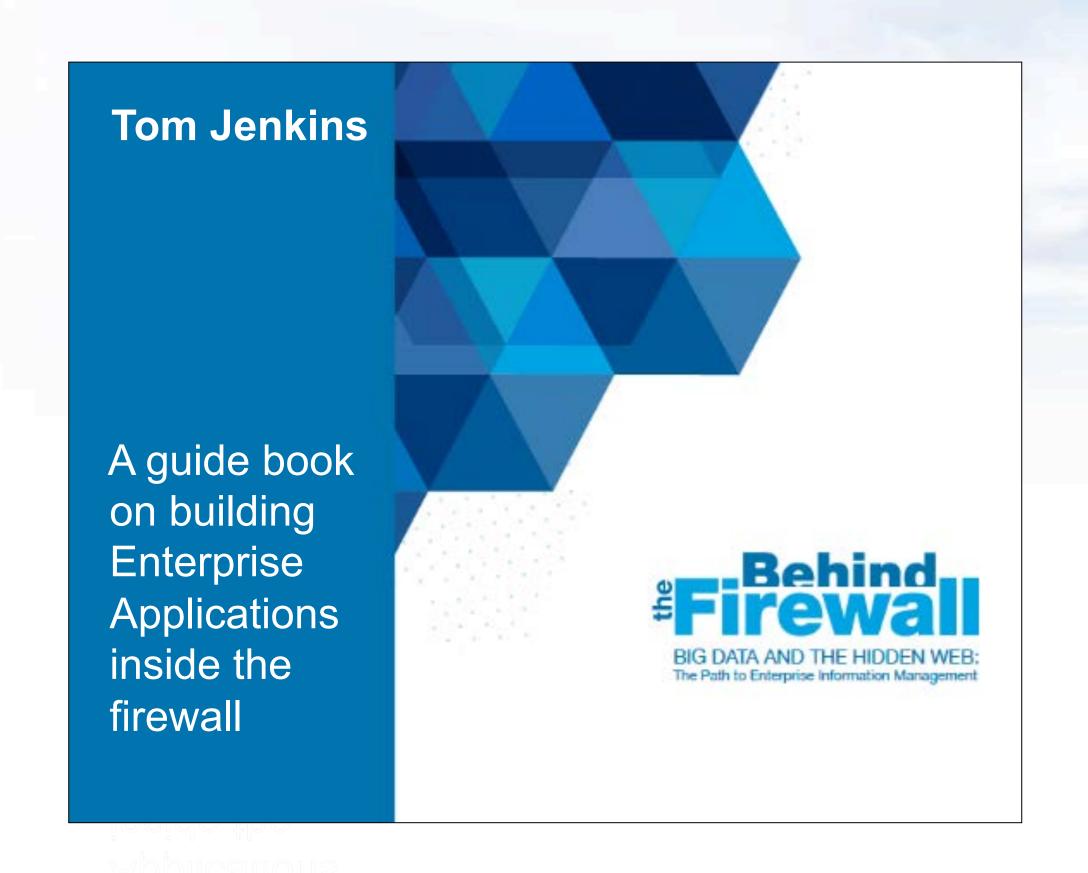
The Deep Web

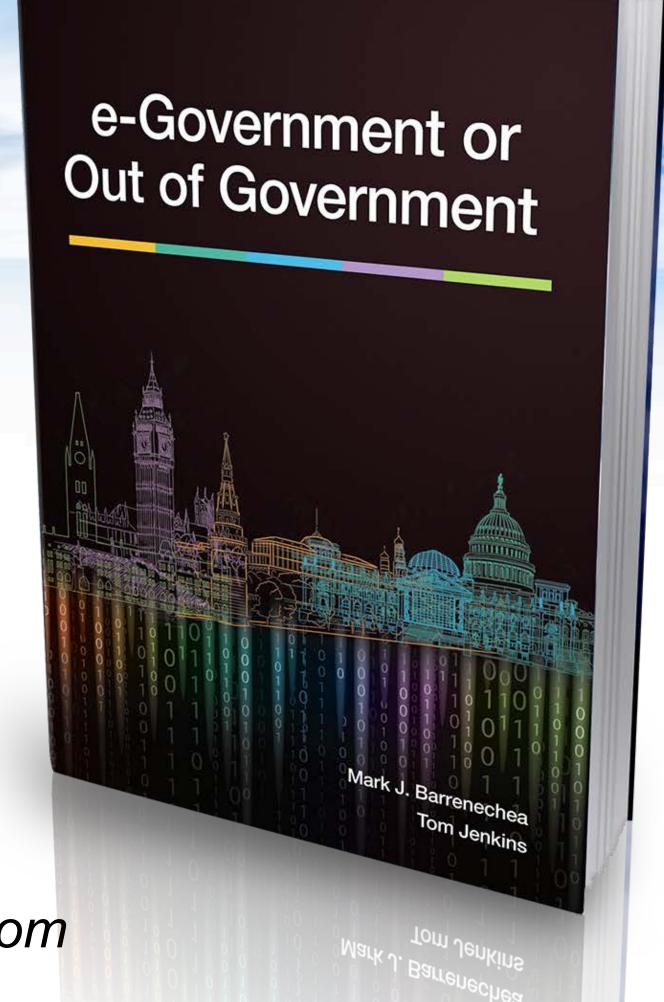
Approximately 96% of the digital universe is on Deep Web sites protected by passwords

Digital Information: The line is moving!



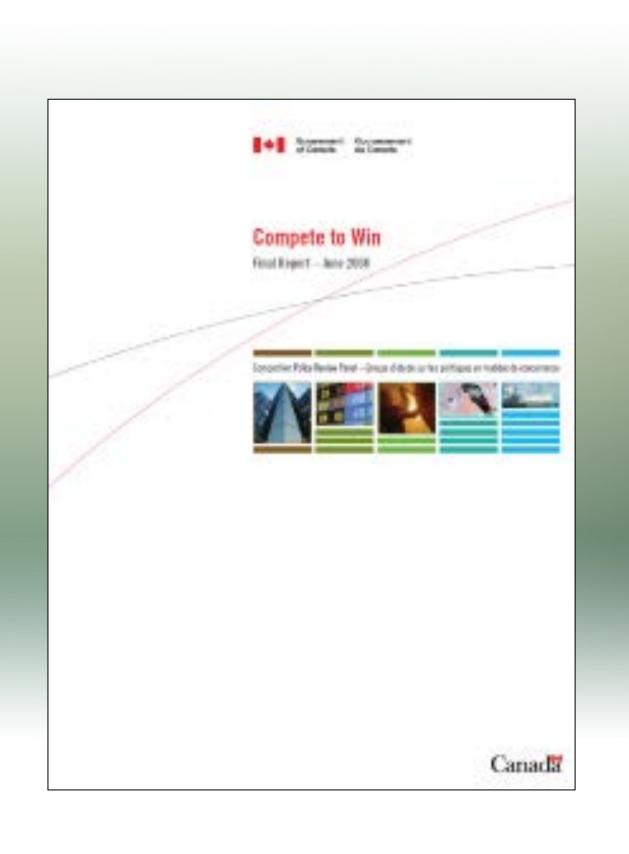
Wrote a book on the Deep Web and eGovernment

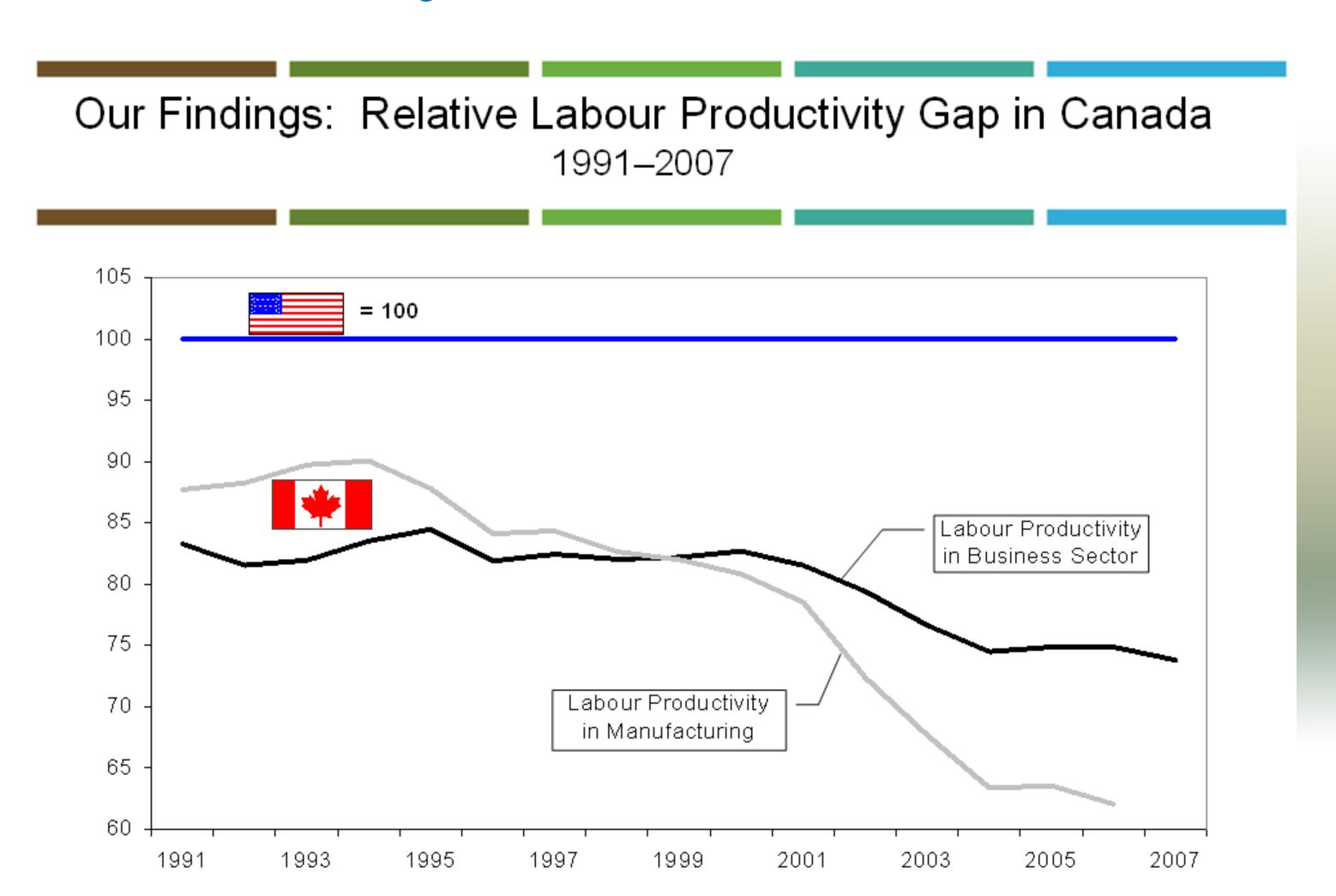




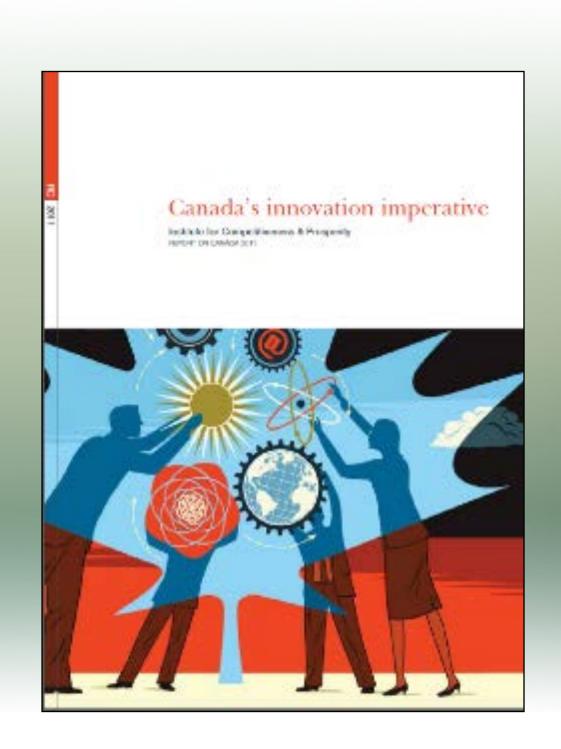
Available on Amazon, Apple and www.opentext.com

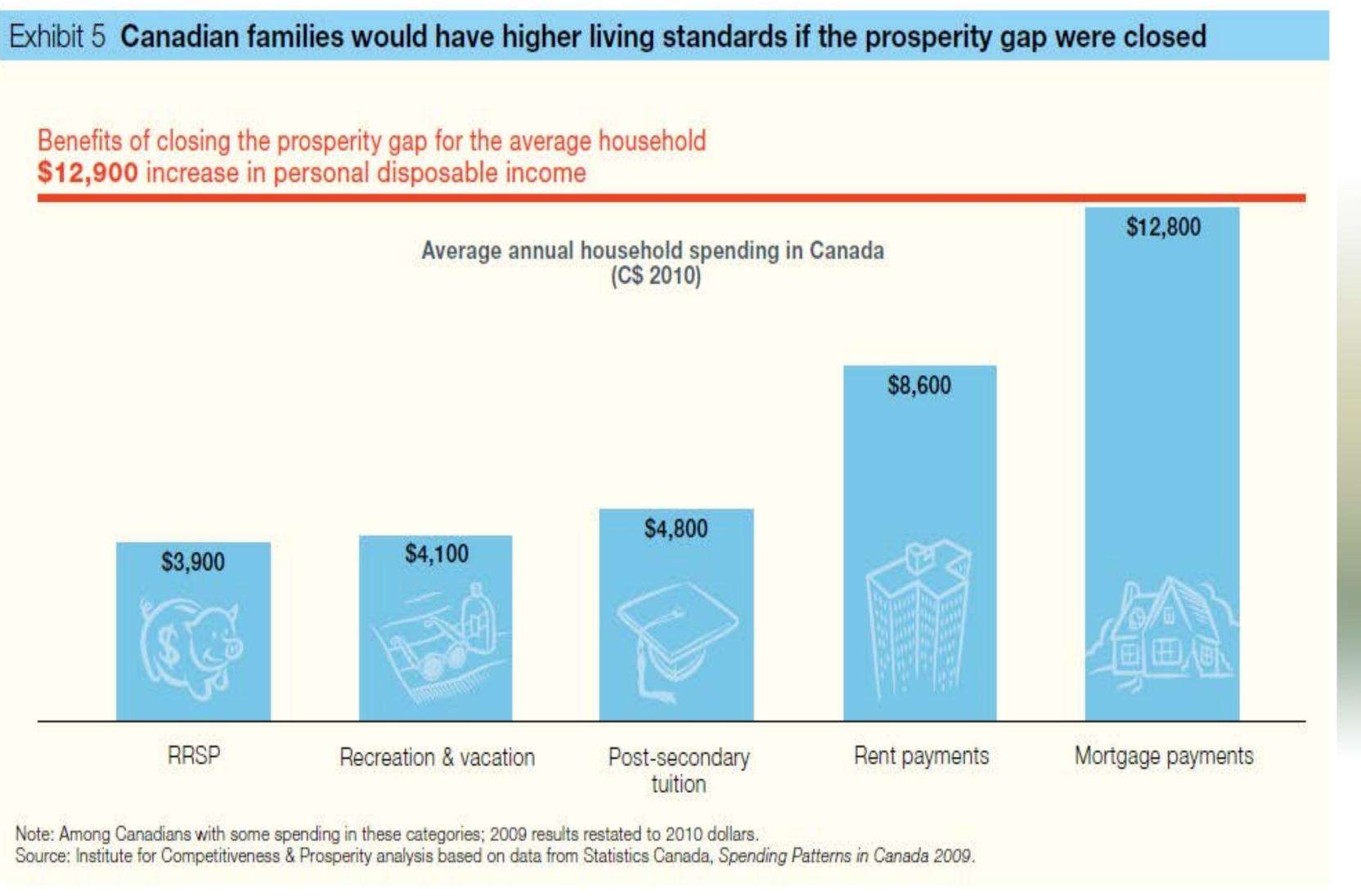
Canada's Great Economic Challenge: Poor Relative Productivity Performance





Impact on Standard of Living





The Digital Revolution will challenge us further

Extreme Automation

DISRUPTIVE TECHNOLOGIES

Robots, 3D Printing, Artificial Intelligence (AI), Machine to Machine

"47% of jobs could be swallowed by machines by the middle of this century"

(Oxford University)

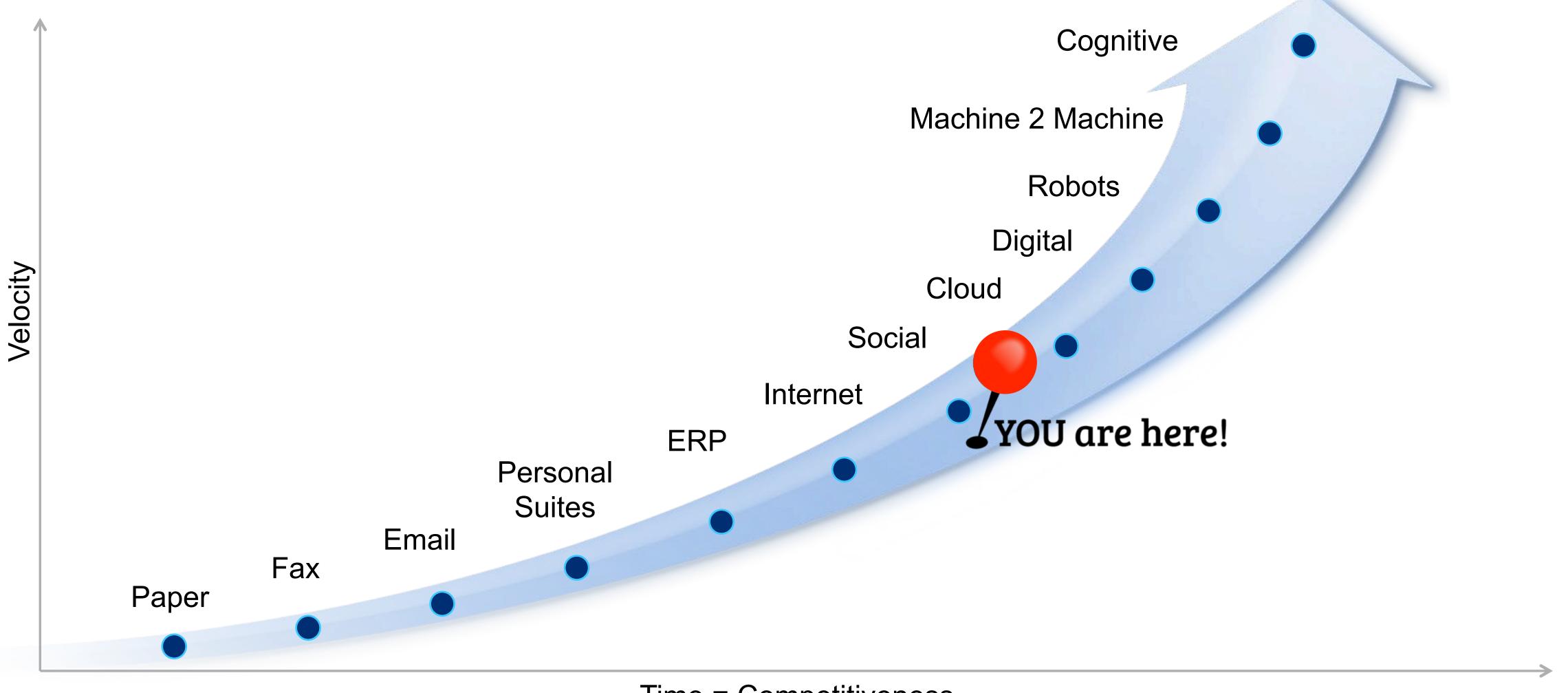
Extreme Connectivity

DISRUPTIVE TECHNOLOGIES

5G Networks, Global Internet, 4 Billion Connected Users

The Pace of Change is Accelerating

One Trillion Devices



Climbing the Curve is Insanely Hard

Disintermediation

Subscription Economy

Disruptive **Business Models** Intellectual Property

New Work Force (Millennials)

Customer Journey Expectations

Information as Currency

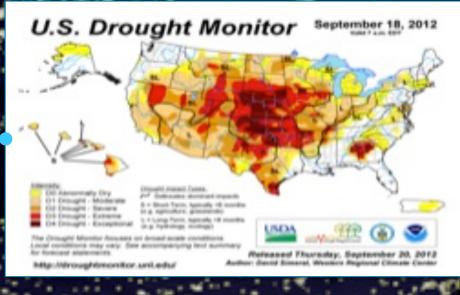
Single Platform Information Truth

Opening up our information is critical to national competitiveness

Open Data Initiatives Drive Productivity for the Country









Innovation is Driven by Content



FAA Data





Satellite Images

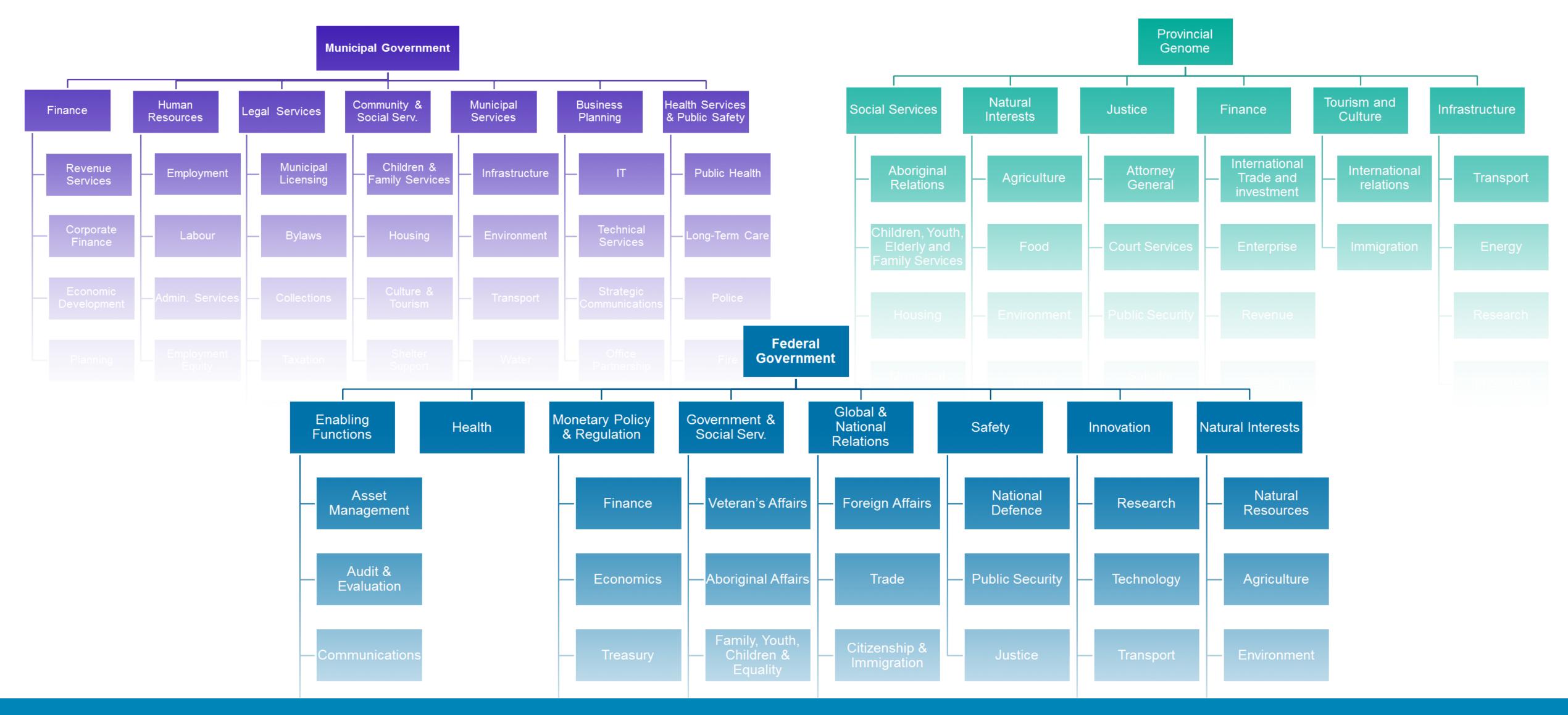
Canada has a strong history in this topic

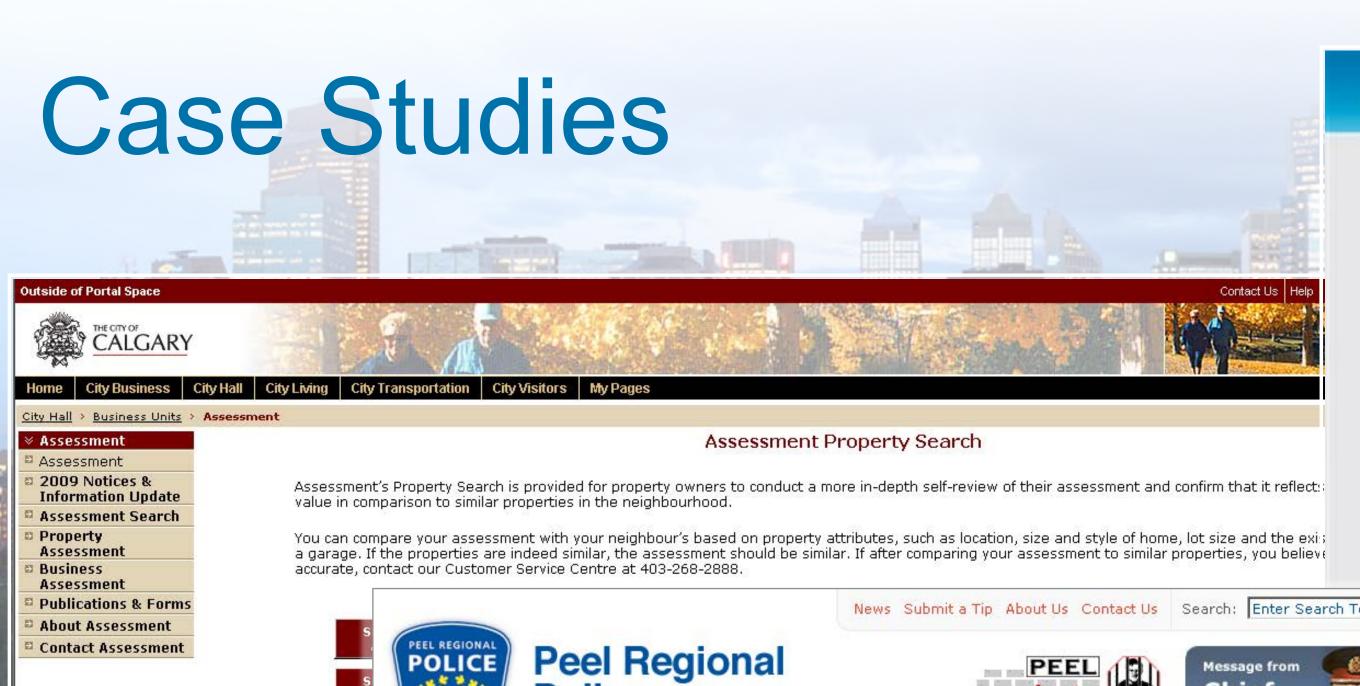
- G20 in 2010
- Open Government effort of Government of Canada Treasury Board
- Open Government effort of Ontario Government
- Many other provinces and municipalities
- More than 20 years of creating and exposing archives through Access to Information Requests (ATIP)
- But we need to go faster!

eGovt is the Dominant Digital Entity in Canada



Government Organization





Communities

// HOW CAN WE HELP YOU?

Locations

Strategic Plan 2008-2010

Criminal Records check/Police Rpt?

Concidering a Career at Deel Dolice?

Assessmen

Due to wee

Daily 12:00

Wednesday

We apologi



October 3, 2009

COMMUNITY EVENTS

Cram-A-Cruiser - 11 Division

> School Board of Broward County



The School Board of Broward County in Florida is the fifth largest school district in the United States, with an organization that includes almost 30,000 teachers and administrators spread over 250 locations. Broward's challenge was to find an advanced cost-effective solution that would replace a collection of different e-mail systems that were slow, inefficient and difficult to manage.

A key additional requirement was the need for a solution that would provide

flexibility and choice regarding the range of support Broward has a large installed base of Apple' computers, and due to financial priorities not all system releases since that is costly and time consi

Broward ended up deploying a feature-rich, net solution that handled the needs of the entire distri tremendous cost savings over traditional e-mail so

Self September Minimal Street Street, SW, Appl. 6 0

Figure 13.11: Broward County School Di

-text.com/ecmbook/userstory/broward

USER STORY

> St. John's Hospital



St. John's Hospital is a regional healthcare center serving central and southern Illinois. Over 600 physicians representing approximately 30 specialties and sub-specialties are on the medical staff. The healthcare industry is notorious for developing department-based solutions, so St John's challenge was to create a consistent environment that would support its close working relationship with another local healthcare institution, Memorial Medical Center.

In order to provide the physicians of both St. John's and Memorial with immediate access to the information and applications they need, St. John's implemented a physician's portal solution. SaintsNet, as it is called, delivers targeted, personalized content and applications to users based on their needs and preferences. Through a secure, single sign-on mechanism, the physician population has access to announcements, health sciences information and various other applications.

Prior to implementing the portal, approximately 600 doctors with privileges at both hospitals were required to learn different systems at each hospital and memorize several different sign-on sequences. A single point of access to all of the systems means that physicians can review critical information online from their homes, clinics and other locations. Since doctors can review images and confer online, an on-call radiologist, for example, who may be 15 to 20 miles from the hospital, can look at images online and make a decision immediately regarding a patient's status.



Figure 11.7: St. John's Intranet

www.opentext.com/ecmbook/userstory/st_john

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Need for Focus

The boy rode on the donkey and the old man walked. As they went along, they passed some people who remarked, "it was a shame the old man was walking and the boy was riding". The man and boy thought maybe the critics were right so they changed positions. Later, they passed some people that remarked, "What a shame, he makes that little boy walk." They decided they both would walk! Soon they passed some more people who thought they were stupid to walk when they had a decent donkey to ride. So they both rode the donkey!

Now they passed some people that shamed them by saying "how awful to put such a load on a poor donkey". The boy and man said they were probably right so they decided to carry the donkey. As they crossed a bridge, they lost their grip on the animal and he fell into the river and drowned.

Management Lesson:

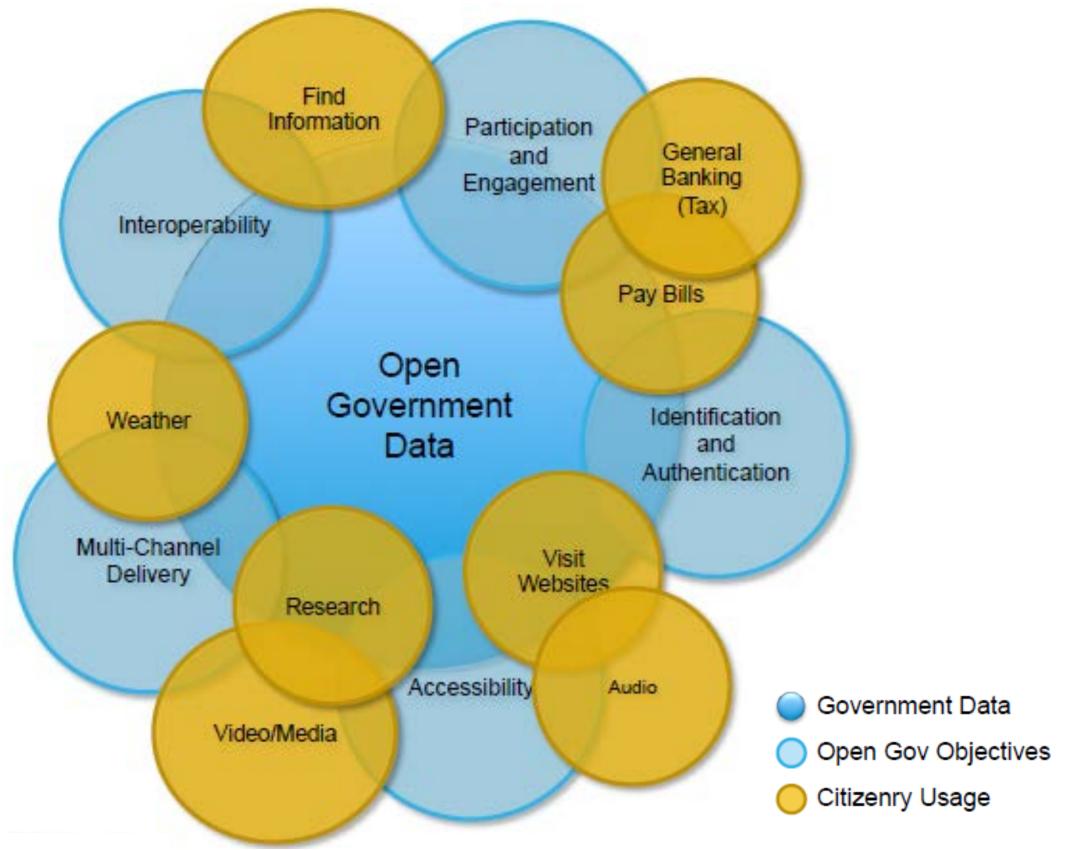
If you try to please everyone, you will eventually lose your ass.

History of Open Data:

2 Decades of Investment

Over the past two decades, governments have launched policy initiatives to promote the reuse of Public Sector Information—from developing open license models to establishing regulatory frameworks and making "open data" available on government websites.

Governments have the opportunity to use this information to improve transparency, efficiency, and service delivery to citizens.



Open Government Partnership (OGP)

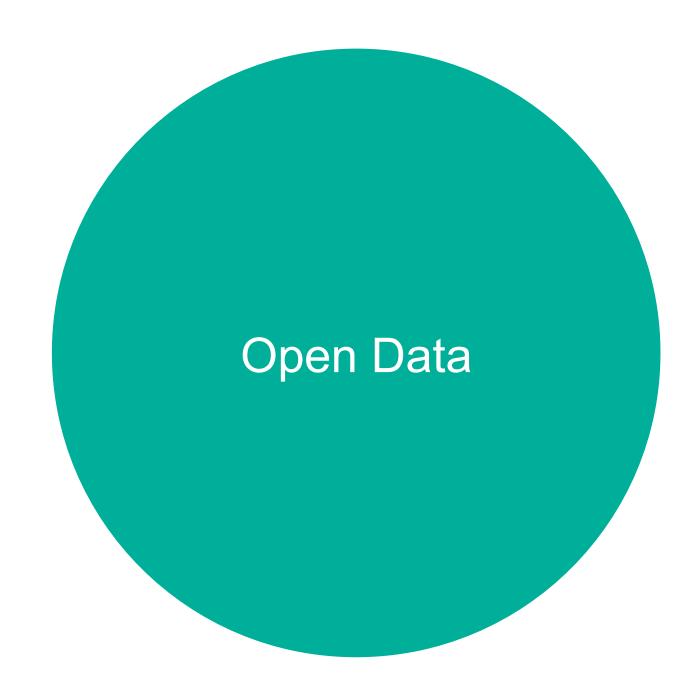
Launched in September 2011, when the eight founding governments (Brazil, Indonesia, Mexico, Norway, Philippines, South Africa, United Kingdom, and the United States) endorsed an Open Government Declaration.

The declaration outlines a voluntary, multilateral mandate to "promote transparency, empower citizens, fight corruption, and harness new technologies to strengthen governance.

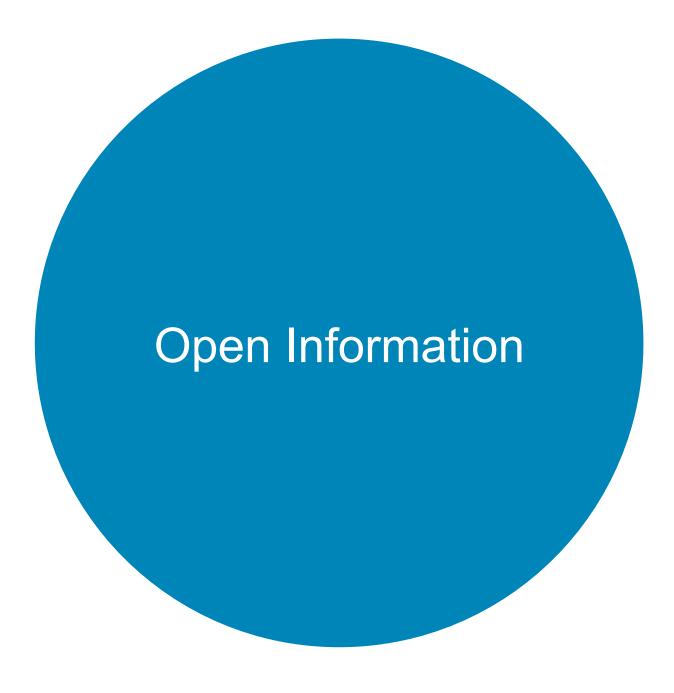
To date, almost 1,000 commitments have been made by OGP countries to make their governments more open and accountable.

> Open Government Partnership, http://www.opengovpartnership.org/ (accessed February, 2014). Mark J. Barrenechea and Tom Jenkins, "e-Government or Out of Government," OpenText, 2014.

Open Government (open.canada.ca/en)



Released Government of Canada data sets



Government of Canada digital records

OpenText Showcase with Canada Science and Technology Museums Corporation

http://documents.techno-science.ca/en/index.htm



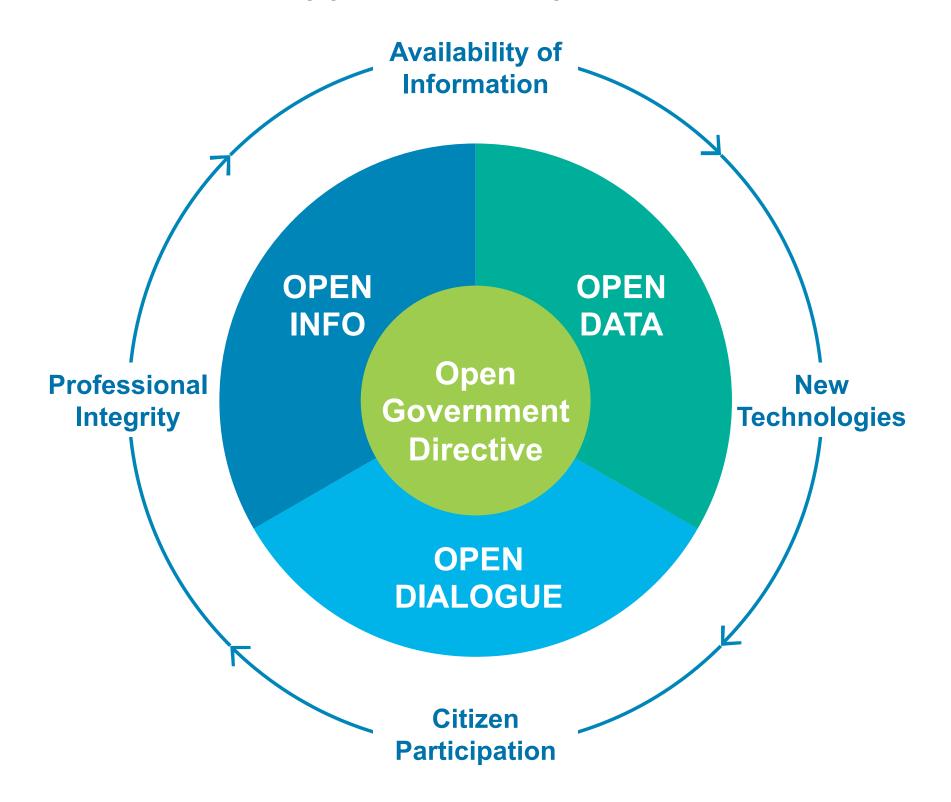
Ongoing conversation with Open Government experts

Why We Are Here

Importance of 'Open' for Federal and Provincial Levels of Gov't

"In an information economy, data is the raw material for new products and services. Governments around the world have articulated their commitment to facilitating a more open approach to governing."

Canada's Approach to Open Government



Goals for Open Government

- Foster greater openness and accountability
- Provide Canadians with more opportunities to learn about and participate in government
- Drive innovation and economic opportunities for all Canadians
- Create a more cost effective, efficient, and responsive government.
 - GC1 Improving Public Services;
 - GC2 Increasing Public Integrity;
 - GC3 Effectively Managing Public Resources;
 - GC4 Creating Safer Communities; and
 - GC5 Increasing Corporate Accountability.

The Chasm is Crossable

Extracting Value from Current Investment - Building Foundations

Availability of

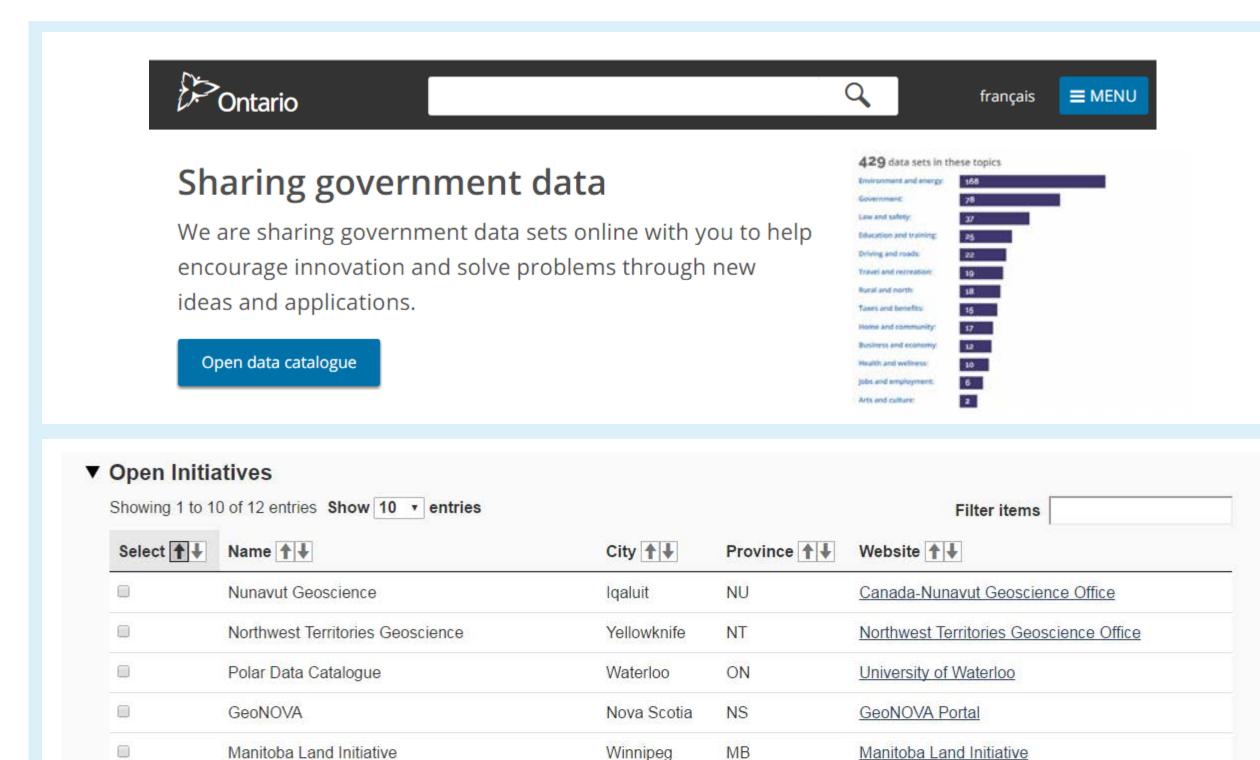
Information Open Data Canada Canadian Open Data Exchange Open Science Open Data for Mandatory Reporting on Development **Extractives OPEN OPEN** Open Data Core Open Contracting **INFO DATA** Commitment Open Information on Open **Professional** New Budgets and Government **Technologies** Integrity Expenditures **Directive** Digital Literacy **Open Information Core** Commitment **OPEN** Next-generation DIALOGUE **Consulting Canadians**

Citizen

Participation

The Chasm is Crossable

Extracting Value from Current Investment - Where are the Gaps?



Whitehorse

Fredericton

Yellowknife

Rimouski

Charlottetown PE

YT

NB

NT

Geomatics Yukon

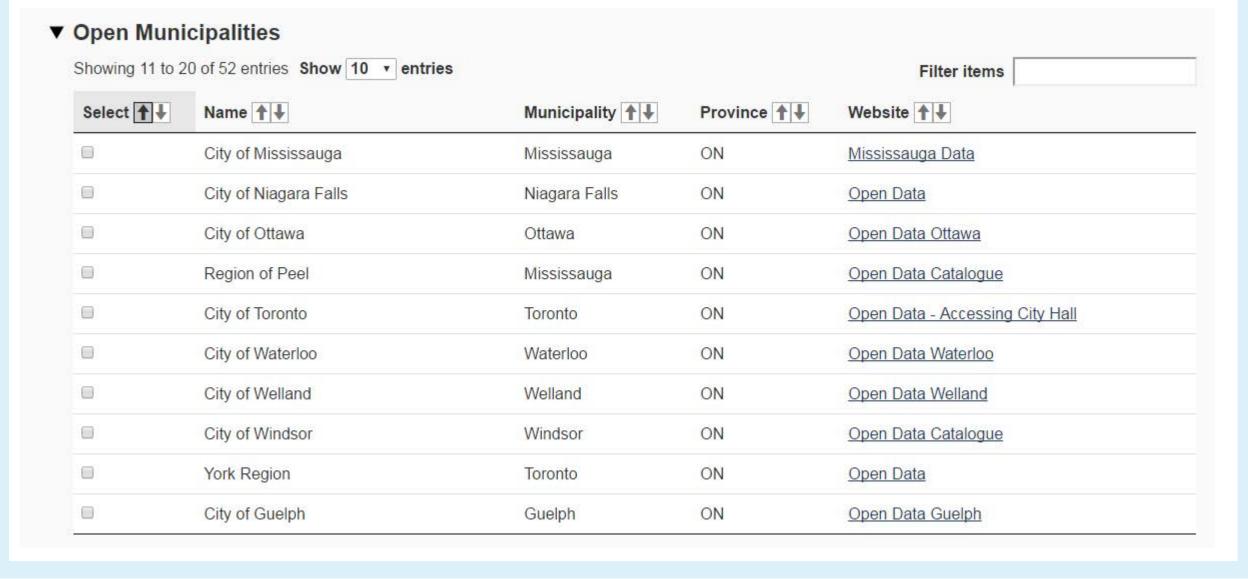
Centre for Geomatics

St. Lawrence Global Observatory

GIS Data Layers: Geographic Information for PEI

GeoNB Portal





http://open.canada.ca/en/maps/open-data-canada

Geomatics Yukon

Northwest Territories Centre for Geomatics

Geographic Information for PEI

St. Lawrence Global Observatory

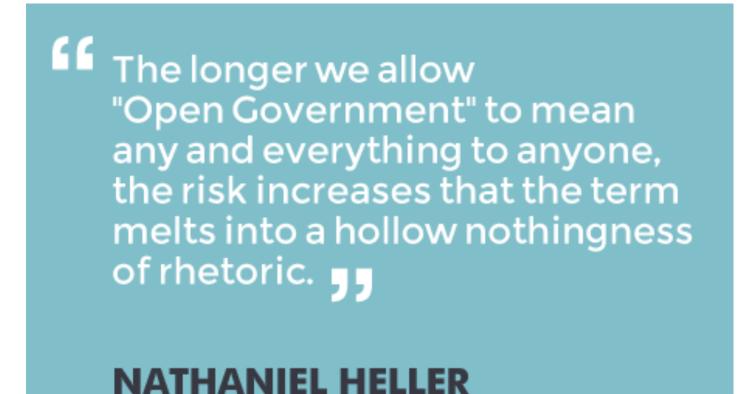
GeoNB

Policy & Standards Leveraging International Standards

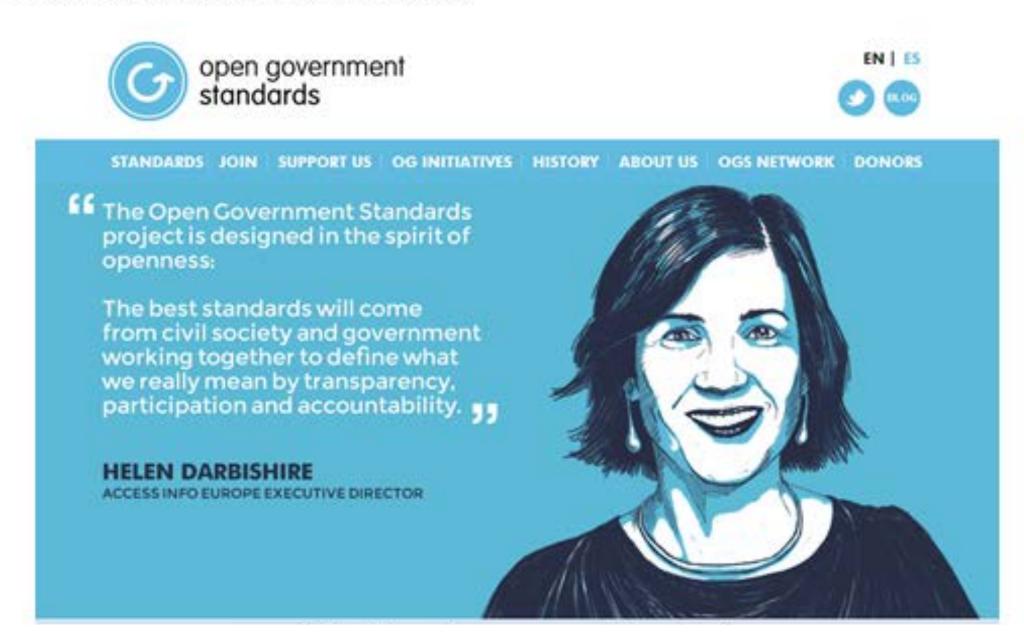
Open Government Standards

http://www.opengovstandards.org/

The Open Government Standards were initiated in 2012 to coincide with the presentation of OGP national Action Plans. The initiative aims to define open government based on open government policy measures. In other words: what constitutes an open government and how can new technologies advance transparency?



EXECUTIVE DIRECTOR OF GLOBAL INTEGRITY



THE STANDARDS

The Open Government Standards are being drafted through a consultative process amongst civil society organisations across the world that are working to promote open government. The Standards define the measures that different governments must adopt in order to advance and become Open Governments.







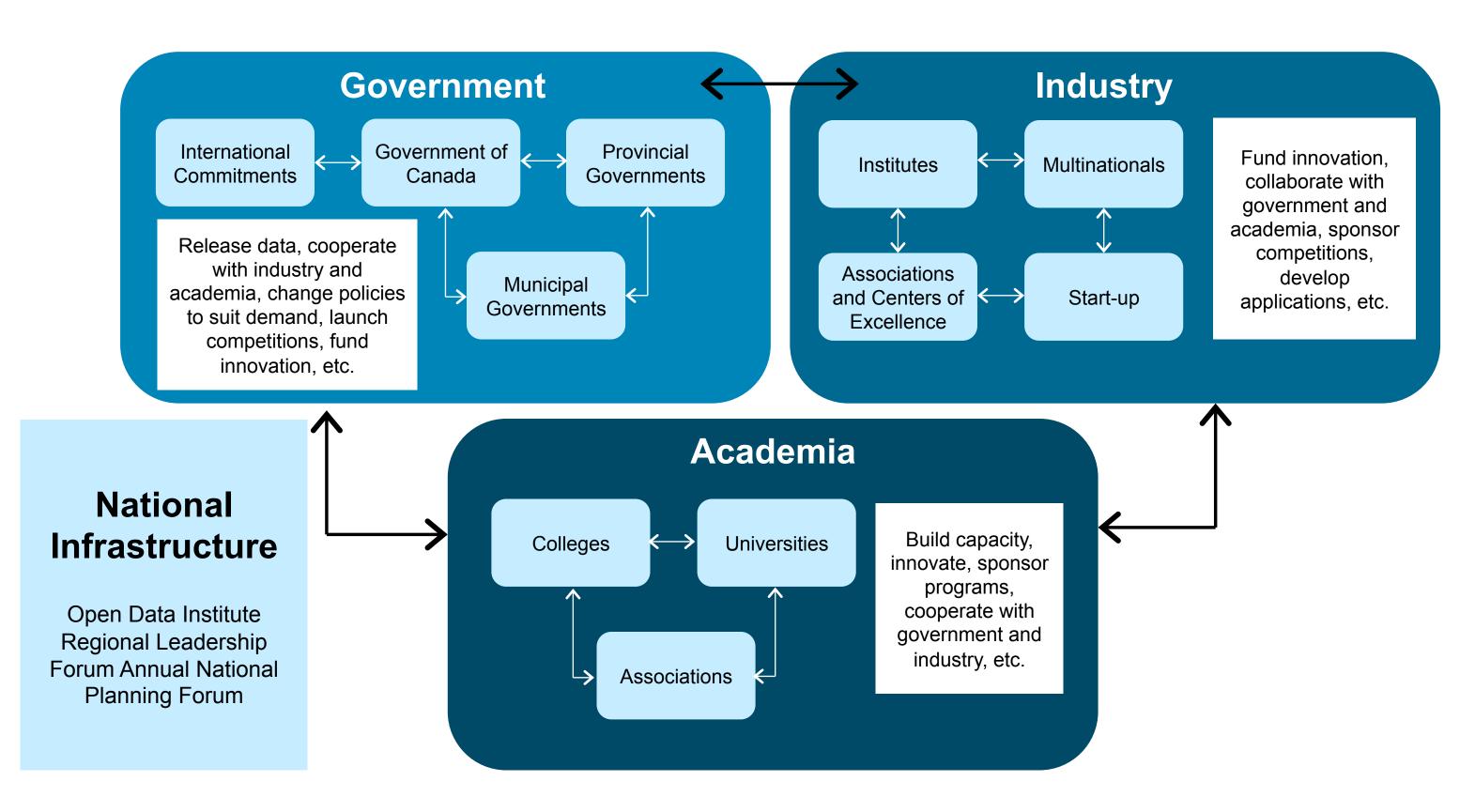
TRANSPARENCY

PARTICIPATION

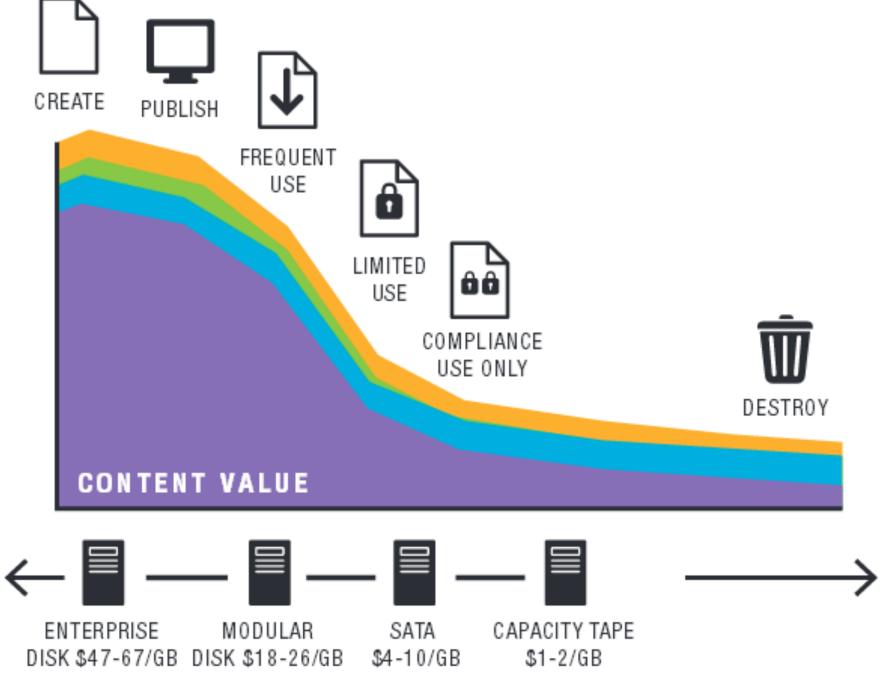
ACCOUNTABILITY

The Government of Canada will issue mandatory policy requiring federal government departments and agencies to maximize the release of data and information of business value subject to applicable restrictions related to privacy, confidentiality, and security. Eligible data and information will be released in standardized, open formats, free of charge, and without restrictions on reuse.

Policy & Standards Data Sovereignty



The Importance of Archiving to Open Data



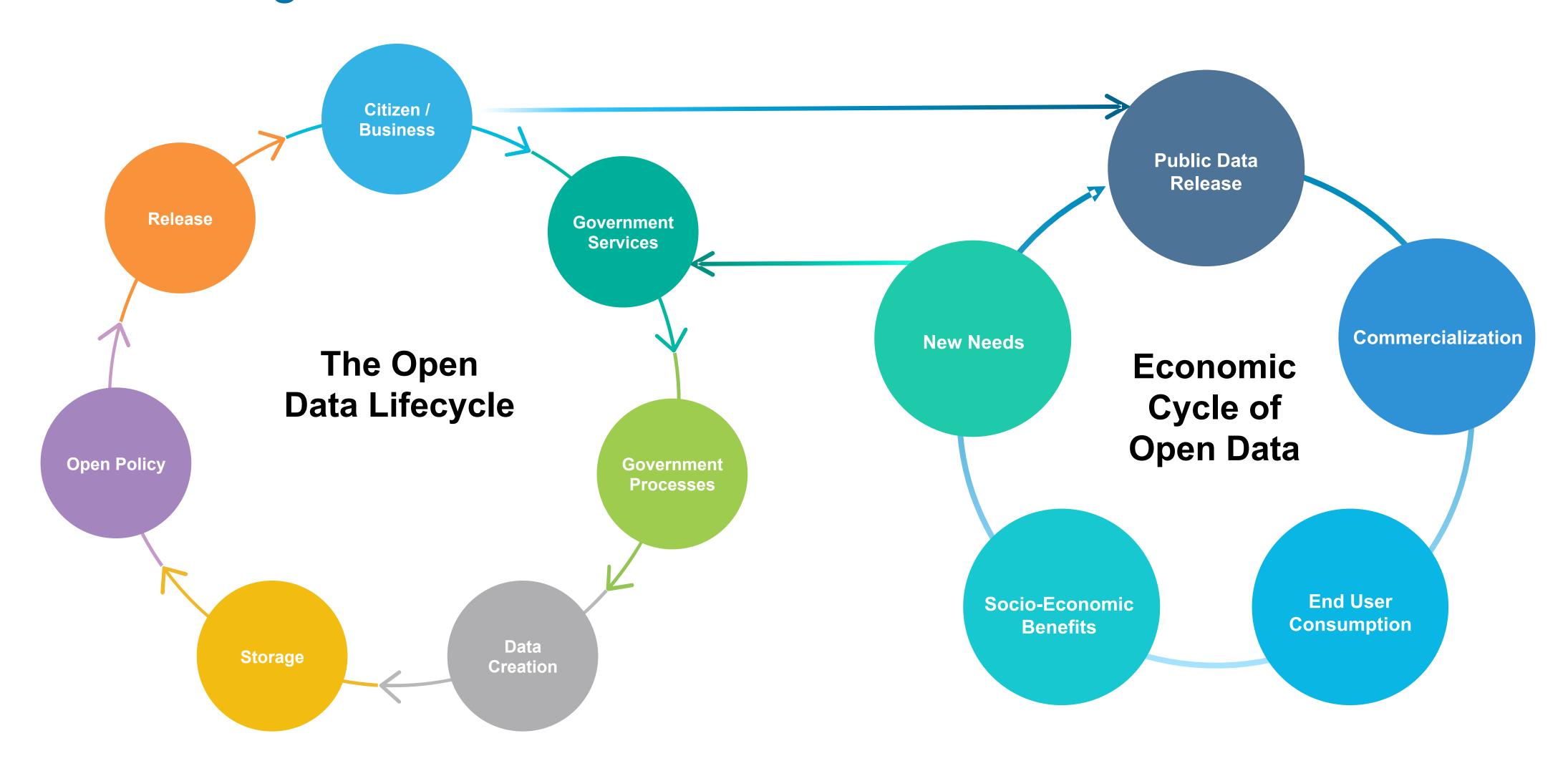
When should Canadian Data, only be Canadian Data?

Some Examples in the Breakouts

- Heritage Canada: Science & Technology Museum Open By Default
- Open Data Exchange: Startups building Apps for Open Government

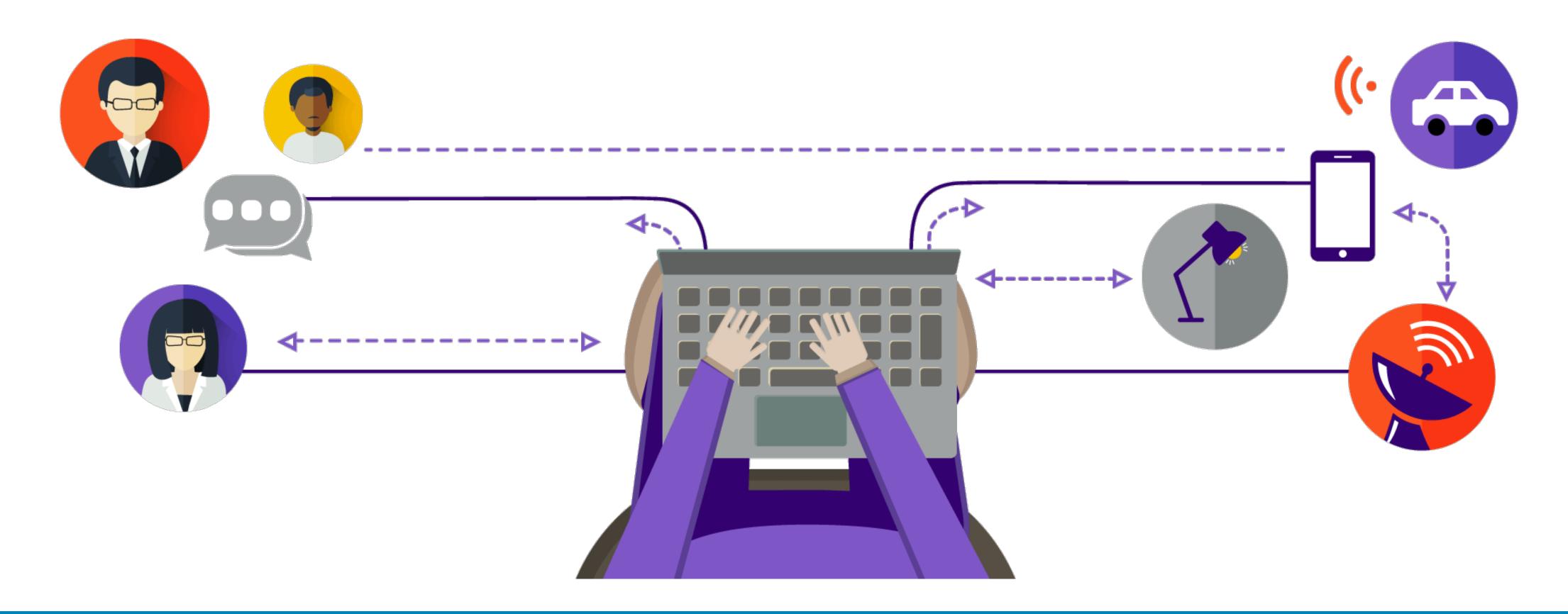
The Opportunity

Pace of Change - Architecture Matters

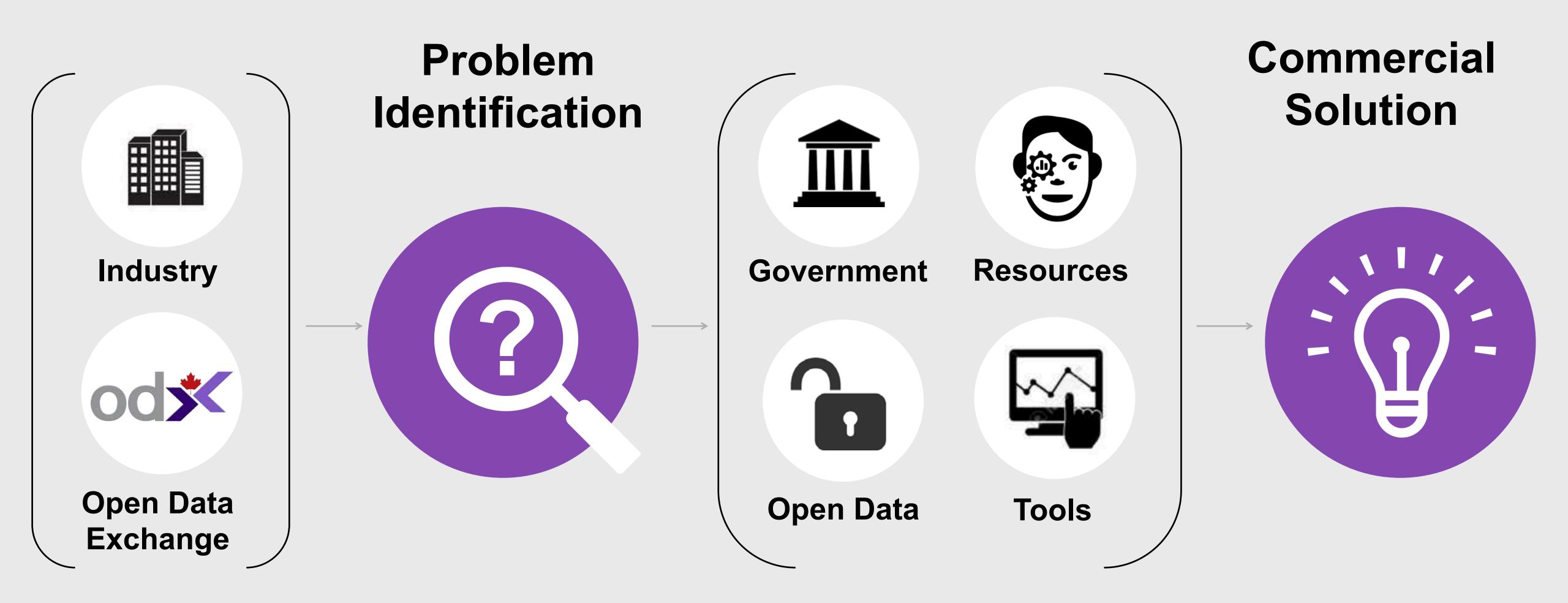


Smart Open Data @ Heritage Canada

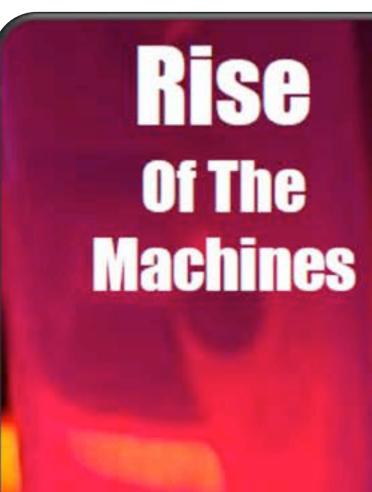
Different dialogue. Better feedback. Continuous improvement.



How ODX Can Help



Impact of The Devices (Machines)

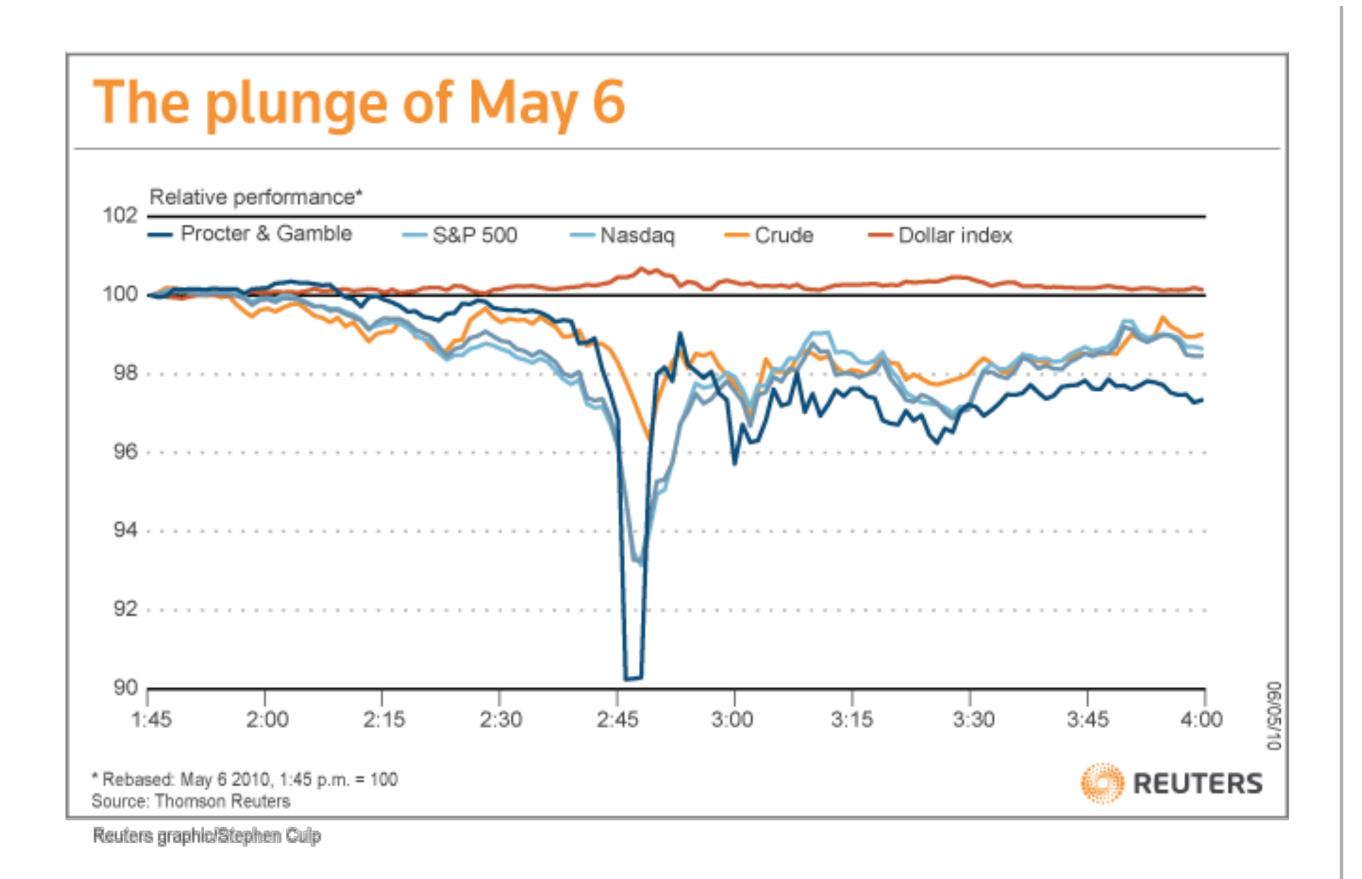


The Industrial Internet of Things is connecting the physical world of sensors, devices and machines with the Internet and, by applying deep analytics through software, is turning massive data into powerful new insight and intelligence. We are entering an era of profound transformation as the digital world is maximizing the efficiency of our most critical physical assets.

Cisco's CEO has pegged the Internet of Things at a \$19 trillion market. The IIoT is a significant sub-segment and includes the digital oilfield, advanced manufacturing, grid automation, and smart cities. We are experiencing incredible innovation around the internet as it accelerates the connection of objects not only with humans but with other objects. Every Industry will change.

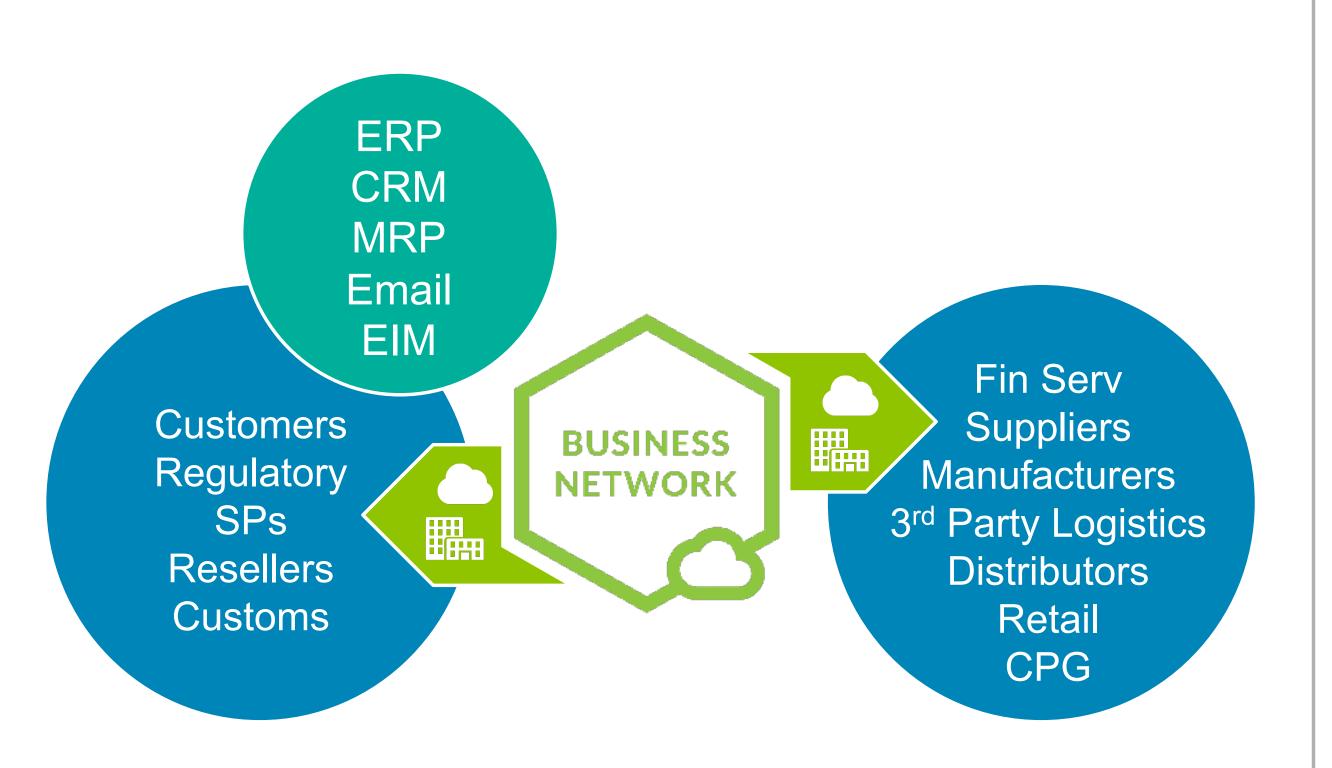
Billions of people generating petabytes hourly will be superceded by hundreds of billions of devices generating zettabytes in seconds Huge scale change

FlashCrash – Fiction becomes Reality



The May 6, 2010 Flash Crash^[1] also known as The Crash of 2:45, the 2010 Flash Crash, or simply the Flash Crash, was a United States stock market crash on Thursday May 6, 2010 in which the Dow Jones Industrial Average plunged about 1000 points (about 9%) only to recover those losses within minutes.[2] It was the second largest point swing, 1,010.14 points, and the biggest one-day point decline, 998.5 points, on an intraday basis in Dow Jones Industrial Average history

Internal Network ... Extreme Connectivity



Release 16

- Procure-to-Pay Automation
- Active Applications
 - Orders and Intelligence
 - Catalogue and Community
 - **Invoices and Compliance**
- Secure Messaging (MFT and Secure Mail)
- Fax to EDI
- Logistics Track and Trace
- On-Demand Messaging
- Trading Partner Self-Enablement
- Analytics Integration (Managed Services and Active Applications)
- **EMEA Trading Grid**

BPM: Creating Digital Information Processes

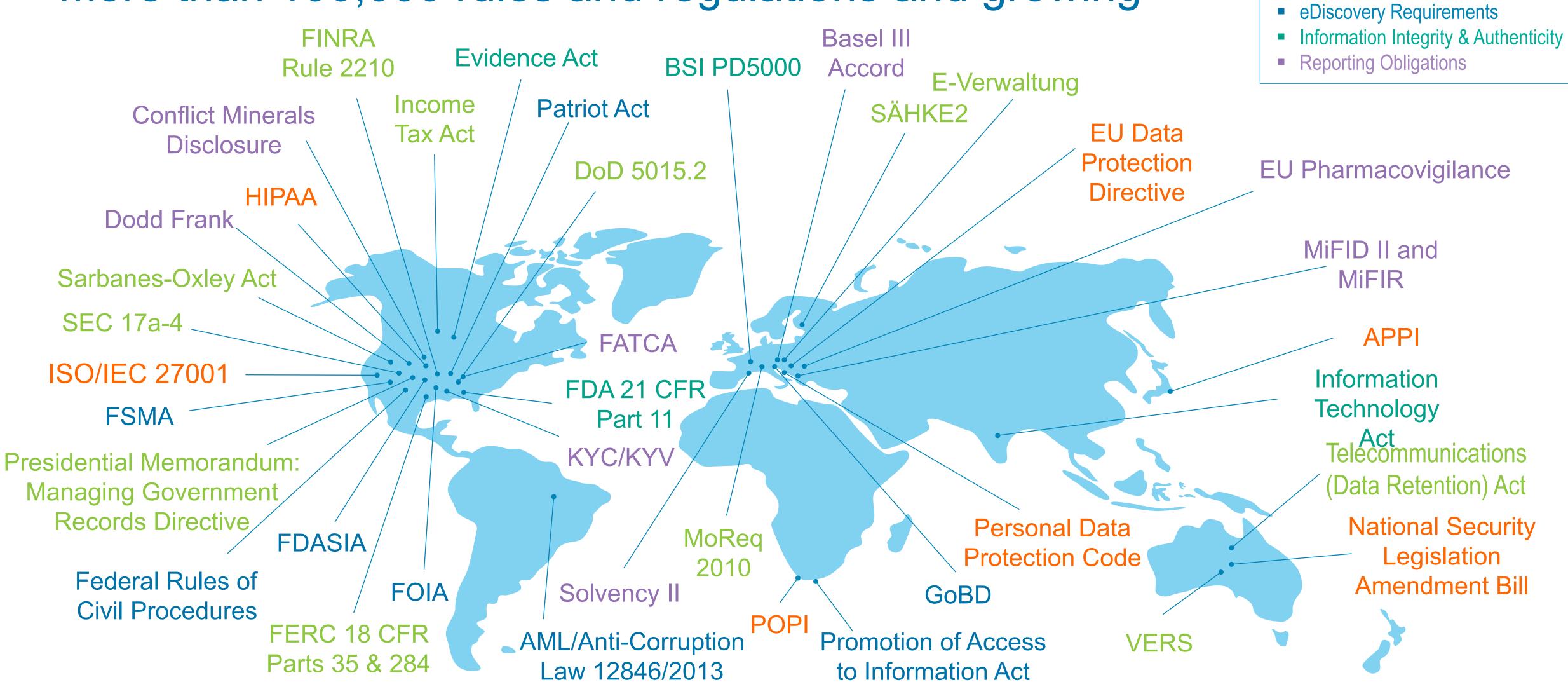


Release 16

- Lightweight Application Development with Entity Modeling
- **Contract Management**
- Case Management
- Orchestration Engine
- Integrated Capture and Rights Management
- **Analytics Integration**
- Deep integration into Content Suite

Information Governance

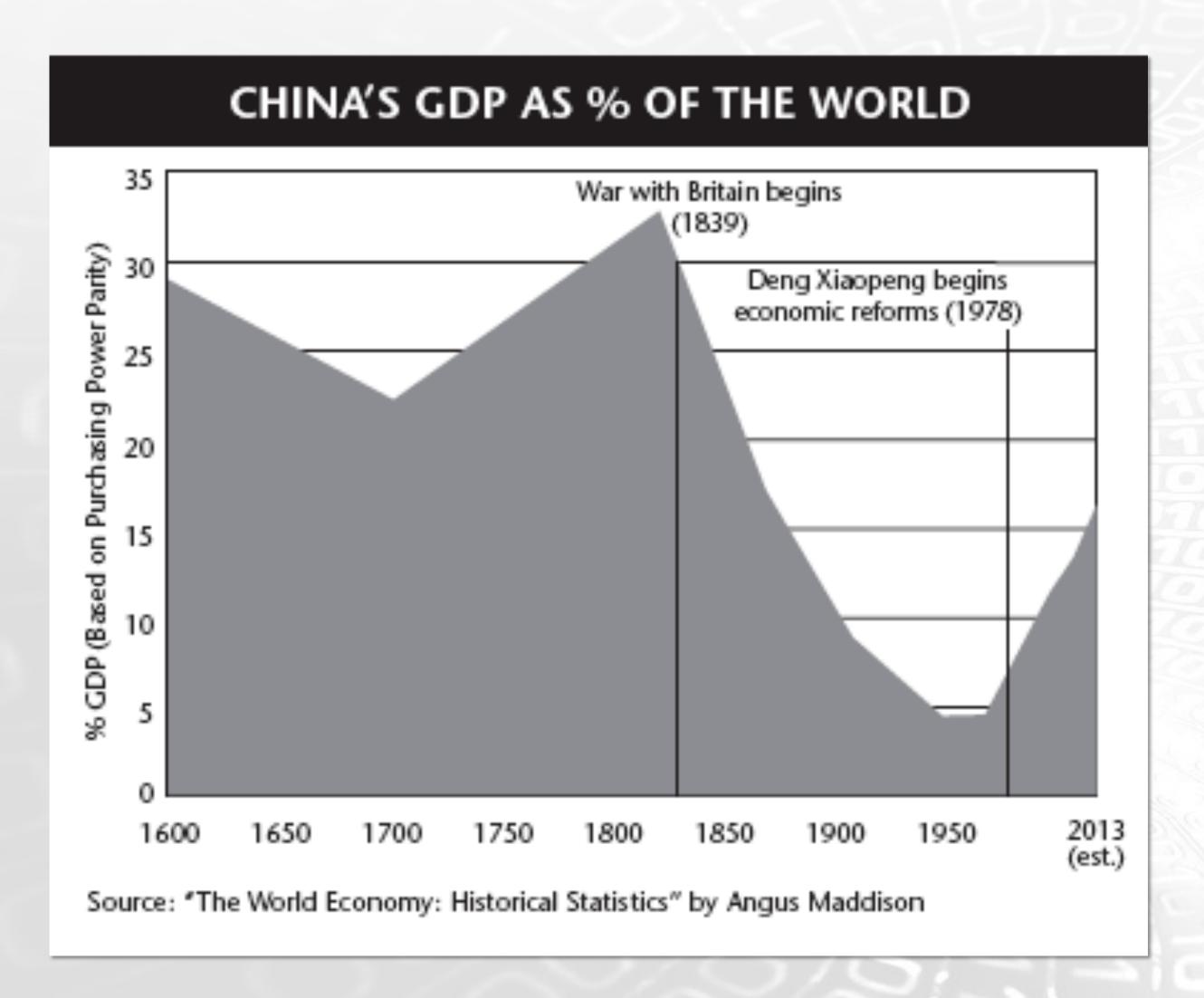
More than 100,000 rules and regulations and growing



Data Protection & Privacy Rules

Regulated Records Retention

No One Can Put Their Head in the Sand!



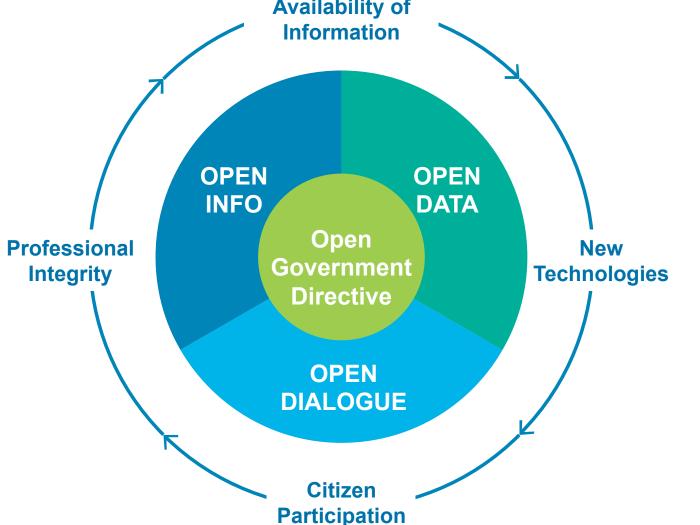
- China missed the Industrial Revolution
- It would not be wise to miss the Information Revolution – any part of it!

Take-Away

- Open Government is a strategic enabler for Canada
- The foundation for economic value creation exists
- Open Dialogue will drive new policy, new data sources, and enable partnerships

Right Policy Right Foundation Value Creation Availability of 1. Innovation Information 2. Transparency

- 3. Efficiency
- 4. Citizen Services
- 5. Law and Liberty
- 6. National Security & Data Sovereignty





Q&A



OPENTEXT"

THANK YOU



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