

Responsible Innovation Update from Canada

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ELEMENT^{AI}

Work smarter, together.

We help enterprises operationalize AI so that
people and machines collaborate better.

ELEMENT^{AI} at a glance



JF Gagné,
CEO

15 years leading disruptive decision and data science-based software companies



Yoshua Bengio,
Co-Founder

Father of Deep Learning, full Professor at UdeM and Head of Montreal Institute for Learning Algorithms



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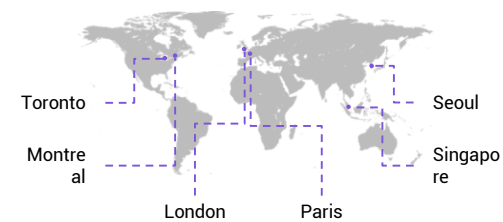
Three years old.
Founded on
Oct. 25 2016

450

450 AI practitioners
100+ Ph.D.s

GLOBA

HQ in Montreal



6

Research Domains:
Vision, NLP, Time Series, XAI, Representation Learning, Operations Research

OUR CUSTOMERS



BACKED BY LEADING VC, CORPORATE & INSTITUTIONAL INVESTORS



Data Collective



What we do



Strategy

End-to-end support to take AI from lab to production using a combination of leading AI expertise and technology enablers



Products

Packaged enterprise software for supply chain and financial services industries that help people work smarter



Research

Access to 200+ AI experts representing nearly every major branch of AI research



Development

Full-stack AI solution development from proof-of-concept to complete solution including deployment & expansion

Driving Responsible Innovation in Canada



1 Investing in Research and Responsible AI

2 Creating an Enabling Policy Environment

3 Innovation Clusters, Funds and Programs

1. Research and Responsible AI

1 Investment in AI researchers and research

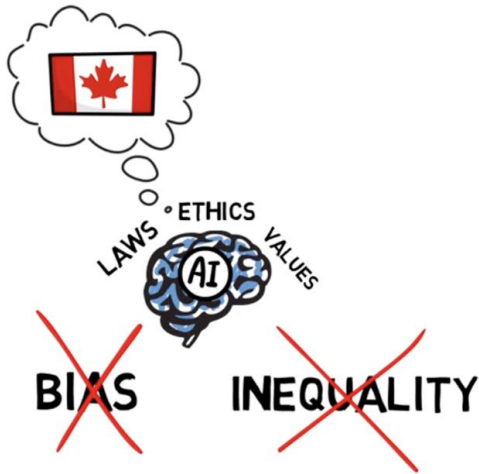


2 Responsible AI (nationally & internationally)



2. An Enabling Policy Environment

1 Directive on Automated Decision-Making Systems and Algorithmic Impact Assessment



ALGORITHMIC IMPACT ASSESSMENT

2 Modernizing Private Sector Privacy Legislation

Strengthening Privacy for the Digital Age

From: [Innovation, Science and Economic Development Canada](#)

Proposals to modernize the *Personal Information Protection*

Introduction

Technology has long brought enormous benefits, along with profound changes, to almost every aspect of society starting in the 15th century, the digital revolution has had, and will continue to have, an enormous impact on our lives. Entertainment, transportation, banking, education, health care, our interpersonal interactions and our physical world are all mediated by digital technology. And with those interactions, enormous amounts of data about individuals are collected for various purposes.

Digital and data-driven technology is already empowering science, supporting innovation, and driving economic growth. Technologies including robotics, artificial intelligence (AI), quantum computing, and nanotechnology are leading to groundbreaking discoveries and social benefits. But while these technological achievements are in many ways enriching our society, this progress also brings uncertainty that we as a country must be prepared to address. In response to this, some stakeholders have developed a Strategy.

On June 19, 2018, the Government of Canada launched its National Digital and Data consultations to determine how to make Canada a nation of innovators. As we noted in [Canada's Digital Charter in Action: A Plan by Canada](#), we invited our country to share their unique perspectives and ideas on what are some of the challenges and areas of opportunity. We received a resounding response — from small business owners and multi-national companies; student entrepreneurs; and everyone in between.

2. An Enabling Policy Environment (continued...)

3 Canada's Digital Charter

Principles	
1	Universal Access
	Safety and Security 2
3	Control and Consent
	Transparency, Portability and Interoperability 4
5	Open and Modern Digital Government
	A Level Playing Field 6
7	Data and Digital for Good
	Strong Democracy 8
9	Free from Hate and Violent Extremism
	Strong Enforcement and Real Accountability 10

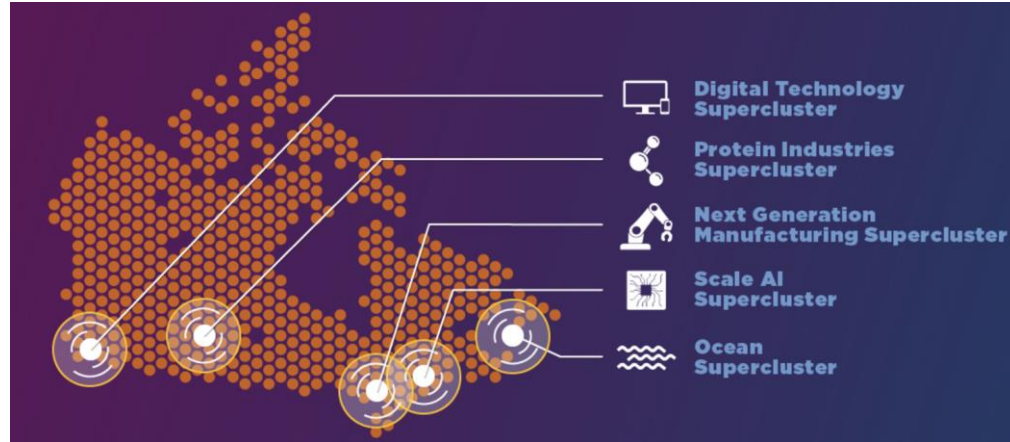
4 Prioritization of standards for data governance

Canadian Data Governance Standardization Collaborative



3. Innovation Clusters, Funds and Programs

1 Superclusters (~950M matched by private sector)



3 Innovative Solutions Canada



2 Strategic Innovation Fund

The breakdown of the 66 projects and \$2.2B in SIF contributions is as follows:

61 projects Stream 1: R&D and commercialization Stream 2: Firm expansion and growth Stream 3: Investment attraction and reinvestment <small>Current as of May 5, 2020</small>	\$2.0B in SIF contributions <small>Current as of May 5, 2020</small>	\$43.4B total investment leveraged <small>Current as of September 3, 2019</small>	67K+ jobs expected to be created and maintained (not including indirect, induced, and construction jobs)
4 successful applicants Stream 4: Collaborative technology development and demonstration	\$178M in SIF contributions	\$444M total investment leveraged	27 projects are investments in small and medium-sized enterprises

3 Global Talent Stream

~ 2 weeks for highly skilled workers to obtain a VISA!

Thank you.

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