



CANADA'S DIGITAL TECHNOLOGY
SUPERCLUSTER

Introduction

digitalsupercluster.ca

Government of Canada's Innovation Supercluster Initiative



Federal government investing \$950MM into superclusters to drive growth, prosperity, jobs and global leadership.




A collaboration of large and small companies, technology adopters and providers, universities, colleges, Indigenous peoples and not-for-profit organizations to turn ideas into solutions that can be brought to market.



Superclusters encourage and leverage investment in new areas and strengthen supply chains through partnerships with private sector, post-secondary, innovation intermediaries and government.

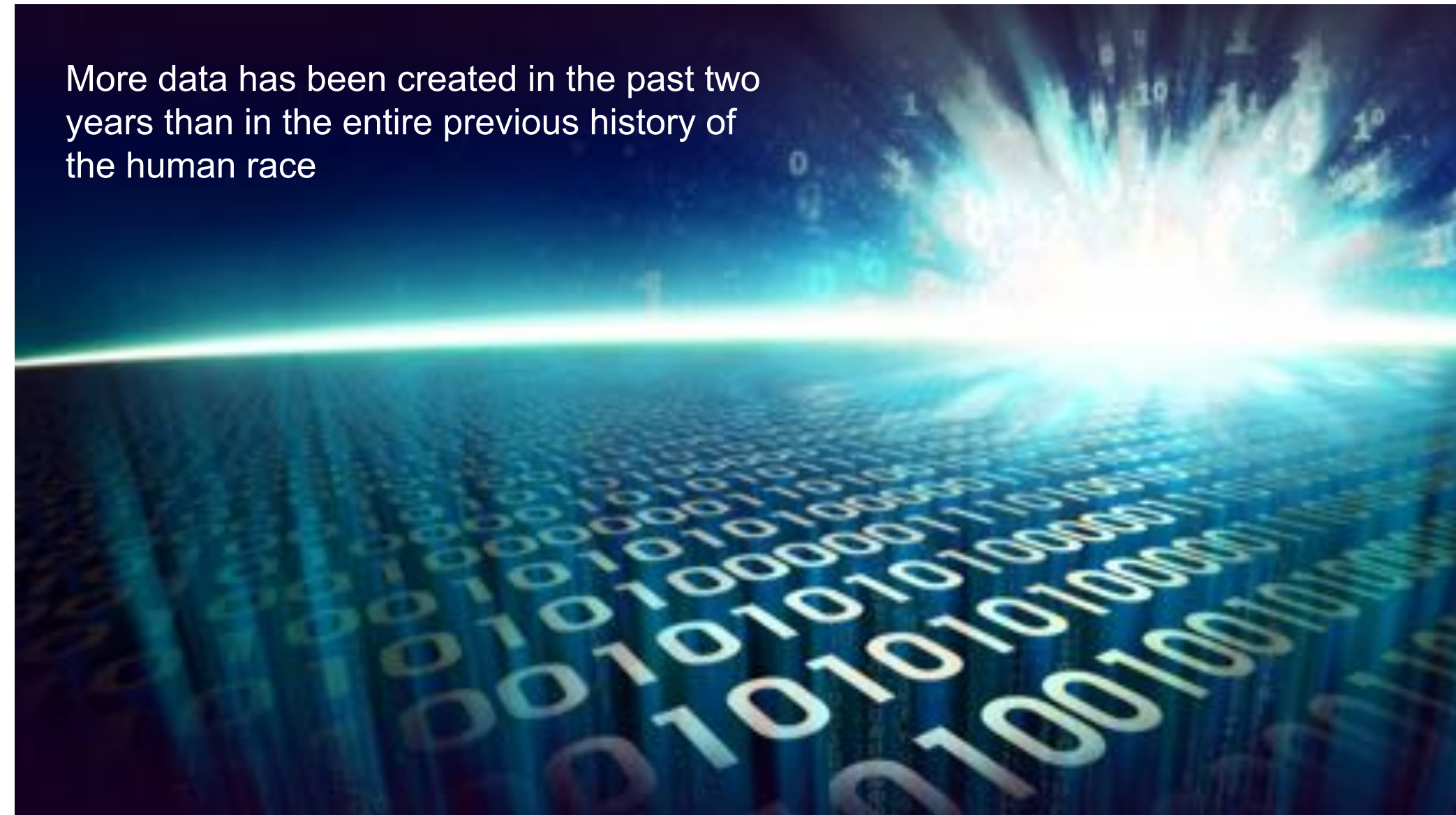
Canada's Superclusters





Why a Digital Technology Supercluster?

More data has been created in the past two years than in the entire previous history of the human race



By the year 2020, about 1.7 megabytes of new information will be created every second for every human being on the planet



Within five years, there will be over 50 billion smart connected devices in the world – all developed to collect, analyze and share data





Less than 0.5% of all data is ever analyzed

Virtual Reality

Quantum Computing

Artificial Intelligence

Machine Learning

Making Canada a global leader in the digital economy

Cloud Computing

Blockchain

Internet of Things

Augmented Reality



CANADA'S DIGITAL
TECHNOLOGY
SUPERCLUSTER

PLATINUM MEMBERS

AVCORP

 Microsoft

 TELUS

SHOPPERS
DRUG MART 

 urthecast

FOUNDING MEMBERS

AEROINFO

AMPO

Augurix

CANFOR

CHANGE
HEALTHCARE

D:WAVE

 GE Digital

illumina

Providence
HEALTH CARE

Terramera

Teck

TimberWest

POST-SECONDARY

BCIT

EMILY CARR
UNIVERSITY
= ART + DESIGN

SFU
SIMON FRASER
UNIVERSITY
THROUGH THE WORLD



THE UNIVERSITY
OF BRITISH COLUMBIA

UNBC UNIVERSITY OF
NORTHWEST BRITISH COLUMBIA



University
of Victoria

The image features a teal background with a large, faint white number '300' in the center. Overlaid on this background is a grid of numerous small, semi-transparent logos of various companies and organizations. The logos are arranged in a grid pattern, filling most of the frame. The text 'Collaboration of 300+ members' is written in a large, white, sans-serif font across the middle of the image, with the '300' being significantly larger than the other words. The overall aesthetic is clean and professional, emphasizing a large network of partners.



CANADA'S DIGITAL
TECHNOLOGY
SUPERCLUSTER

Vision

Position Canada
as a global leader in digital technology
by unlocking the potential of data in
the era of the intelligent enterprise.

Digital Technology Supercluster Focus



Technology Leadership

Collaborative projects that directly enhance the productivity, performance and competitiveness of member firms.



Ecosystem Development

- Enhance regional labour force skills including diversity and First Nations initiatives
- Build the innovation ecosystem
- Increase access to world markets

Program Framework

The first step was to identify digital technology opportunities.

Data Visualization Supercluster Platforms

AR-MR-VR | Mapping | Simulation and Modelling

Data Analysis Supercluster Platforms

Cloud | Supercomputing | Quantum Computing | Machine Learning

Data Collection Supercluster Platforms

IoT | Connectivity | Data Repositories

Program Framework

Digital technologies were applied to BC's core industries.



Natural
Resources



Precision
Health



Industrial

Data Visualization Supercluster Platforms

AR-MR-VR | Mapping | Simulation and Modelling

Data Analysis Supercluster Platforms

Cloud | Supercomputing | Quantum Computing | Machine Learning

Data Collection Supercluster Platforms

IoT | Connectivity | Data Repositories

Program Framework

This resulted in identification of 3 program areas.



Natural Resources



Precision Health



Industrial

Data Visualization Supercluster Platforms

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Data Collection Supercluster Platforms

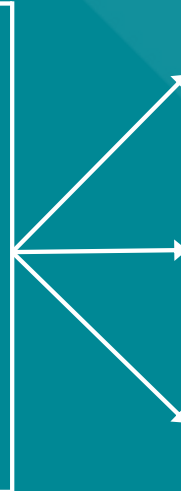
IoT | Connectivity | Data Repositories

Phase 1 Programs

Precision Health

Digital Twins

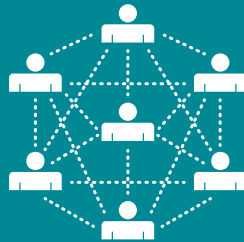
Data Commons



How do Supercluster Programs Work?



Members determine
Supercluster
programs and
projects



Supercluster
facilitates
collaboration among
Member
organizations



Projects are
selected based on
project evaluation
process and
approved by the
Board



Projects are
supported by
matching
government funding



What could Digital Technology
Supercluster projects look like?

Strengthening our resource industries

Augmented and virtual reality will transform mining while remotely connected sensors and visualization technologies will help improve forest health.



A patient is lying in a hospital bed, partially covered by a blue blanket. The scene is dimly lit, with a bright light source from the right. In the upper left, there are glowing, futuristic medical icons: a gear, a watch-like device, and a circular pattern. The right side of the image features large, overlapping, semi-transparent circles in shades of gray and black, creating a modern, abstract background.

Improving health outcomes

Innovations in data analytics and visualization will transform health care delivery to be tailored to each person's unique needs, circumstance, and genetics.



Preserving Indigenous languages

Traditional knowledge and languages will be digitally documented and stored, preserving them forever.

What does success look like in Technology Leadership?



IMPACT

- New technologies and IP launched
- Large commercial applications
- Attracting capital investment & jobs



INNOVATION

- Future-focused across the supply chain
- Translates science into breakthrough technology
- Leaps beyond today's technologies



PARTNERSHIPS

- Collaborative project teams
- Global reach and competitiveness
- Catalyzes new enterprise and initiatives

What does success look like in Ecosystem Development?



TALENT

Create a large, diverse and highly skilled regional talent pool



DIVERSITY & INCLUSION

Promote inclusive work environments that support meaningful participation of women and underrepresented groups



INDIGENOUS PEOPLES

Advance opportunities for economic reconciliation with Indigenous peoples



ECOSYSTEM

Enhance the growth of a robust innovation ecosystem



CANADA'S DIGITAL TECHNOLOGY
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How can I get Involved?

- READ OUR BUSINESS PLAN
- JOIN THE SUPERCLUSTER
- ATTEND WORKSHOPS AND INFO SESSIONS
- SUBSCRIBE TO OUR MONTHLY NEWSLETTER

www.digitalsupercluster.ca



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