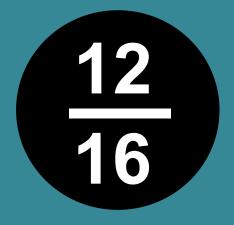
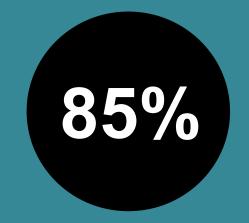




CANADA'S MOTIVATATION FOR SUPERCLUSTERS



CANADA'S RANK ON GLOBAL OECD "INNOVATION **SCORECARD**"



OF CANADIAN TECH FIRMS HAVE LESS THAN 10 EMPLOYEES*



OF NEW CANADIAN VENTURES CLOSE WITHIN 5 YEARS**



ON AVERAGE, LARGER **BUSINESSES ARE** MORE PRODUCTIVE AND CONTRIBUTE MORE TO GDP, **EMPLOYMENT, & SOCIAL NEEDS.****



THE GLOBAL DATA OPPORTUNITY



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



By 2022 global internet protocol traffic, a proxy for data flows, is projected to reach 150,700 GB per second

2 UNITED NATIONS



Within five years, there will be over 70 billion smart connected devices in the world – to collect, analyze, and share data



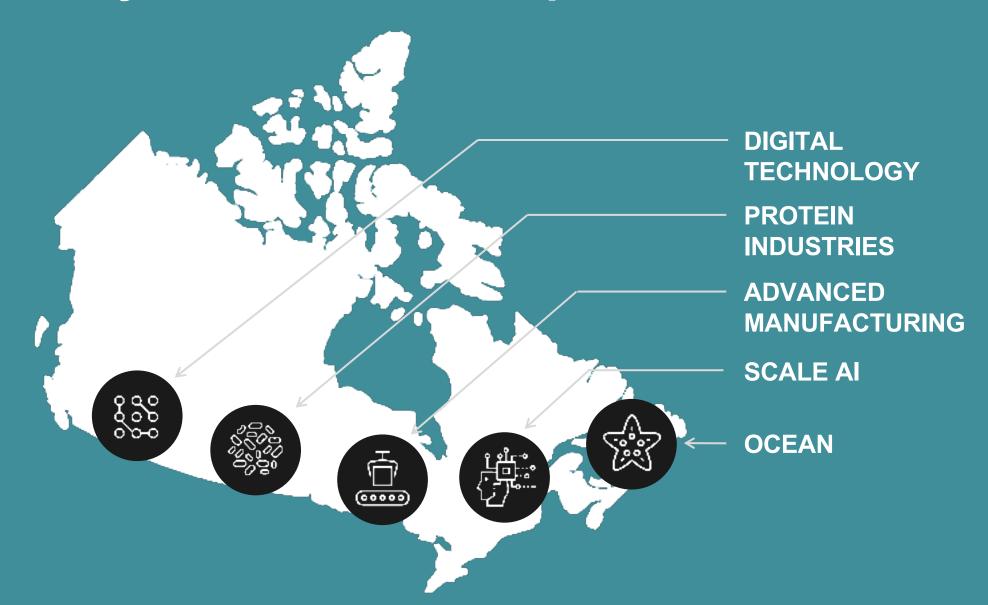


Canada's Digital Technology Supercluster

- WHO ARE YOU?
- WHAT DO YOU DO?
- HOW DO WE HELP CANADA?

DIGITAL TRANSFORMATION. GLOBAL LEADERSHIP.

Who are you? Canada's Superclusters



Our Purpose

- Solving some of society and industry's biggest problems by developing, deploying and scaling digital technologies
- Investing in Canadian technologies, helping these companies grow
- During COVID, helping Canadian companies:
 - Keep employees
 - Stay active
 - Continue to develop technologies
 - Engage with prospective customers

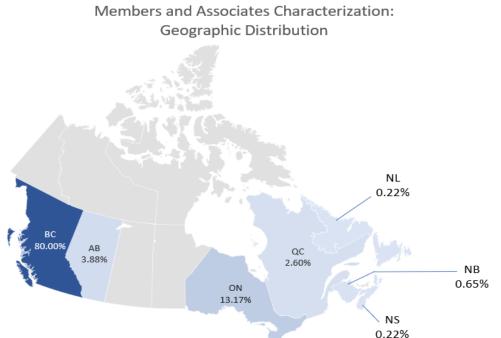
What do you do? Member based.

600⁺ Canadian Organizations

- STARTUPS
- INSTITUTES
- CANADIAN SMES
- COLLEGES

• LARGE

- RESEARCH INSTITUTIONS
- **COMPANIES**
- NON-PROFITS
- MULTI-NATIONALS
- GOVERNMENT AGENCIES
- UNIVERSITIES

















































































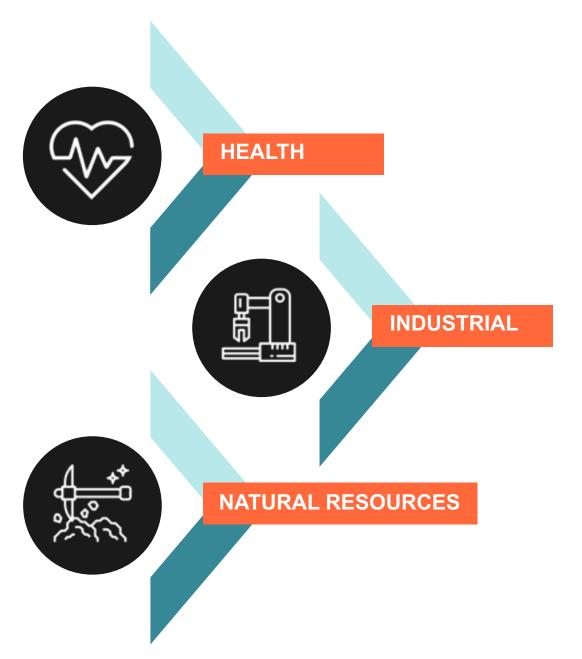










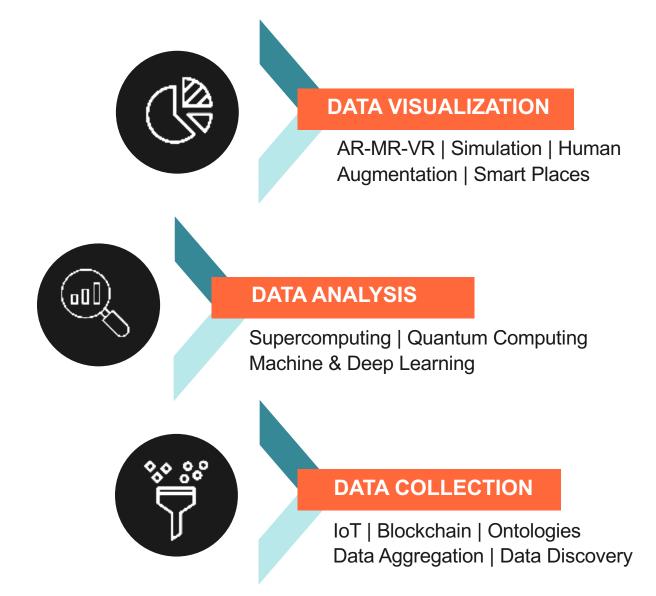


What do you do?

- FOCUS ON THREE SECTORS
- BUILD ON REGIONAL STRENGTHS
- CANADIAN DIGITAL TECHNOLOGIES
 SOLVE BIG PROBLEMS
- SECTOR FOCUS MAY EVOLVE OVER TIME

What do you do?

- FOCUS ON AREAS OF NEED
- LEVERAGE OUR TECH STRENGTHS, DIVERSE CAPABILITIES, RECOGNIZED TALENT, CREATIVITY AND AMBITION
- PUT THESE TO WORK TO SOLVE PROBLEMS
- HELP BC COMPANIES BE SUCCESSFUL AND SCALE





What do you do?

SOLVE PROBLEMS THROUGH DIGITAL TECHNOLOGIES THAT HELP SCALE CANADIAN COMPANIES







Health

Industrial

Natural Resources

DATA VISUALIZATION

DATA ANALYSIS

DATA COLLECTION

PROGRAMS



CAPACITY BUILDING



PRECISION HEALTH



DIGITAL TWINS



DATA COMMONS

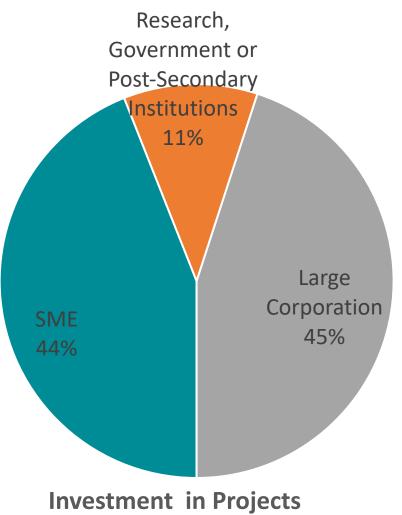


What do you do? Progress to Date

- Strong Engagement. Real Progress. Meaningful Results
 - \$90million invested over 63 projects, creating total project value of \$194million
- COVID19 Program = Immediate Response + Investing in Future.
 - Respond to immediate needs of the pandemic and serve the economic recovery
- Accelerated Progress.
 - We expect to have committed 100% of our Federal investment by March 31, 2021: two years ahead of schedule

What do you do? Grow Canadian Companies

Almost half of industry investment is from Canadian **SMEs**







Earth Data Store

Creating a data platform to help to measure factors contributing to "extreme weather". This will potentially lead to predicting where these events will hit hardest and what we can do to reduce their impact on communities, citizens and businesses.

















Dermatology Point-of-Care Intelligent Network

One in six Canadians will contract melanoma in their life and wait 6 months to see a specialist. This Al-powered medical imaging network reduces diagnosis time from months to days.



















Augmented Reality for Maintenance and Inspection

The application of augmented reality technologies to routine inspection systems for improved safety and performance of aircraft, ships and heavy equipment.









COVID-19 Project Portfolio

Program Focus Areas

Health system

Technologies that support our health systems, hospitals and healthcare workers to effectively manage resources to provide high quality care to patients.

Safe Living

Enabling technologies for Canadians to live safely and securely, and to access the support and resources they need, whether at home or at work.

Emergency Response

Tools and technologies that can be used to predict, plan and respond to any subsequent COVID-19 waves and other crises situations.

Community health

Technology solutions that enable Canadians, their families and friends to access to care in their communities, in their homes and/or in remote locations, and to connect and support each other.

Diagnostics and Therapeutics

Platforms that support sharing of data, research and scientific developments and for support clinical trials in the drive to discover and deploy new vaccines, diagnostic tests and therapies for COVID-19.

Other Contributions

Other technology solutions that can address the effects of COVID-19.

Project Participants



Supercluster COVID-19 Program (as of June 23)

Objectives

- Deliver practical and meaningful technology solutions to problems created by COVID-19
- Build expertise and capacity to address and anticipate issues that may arise in future health crises

Approach

- \$60M redirected to this program
- New approach and new parameters to allow for quick dispatch and fast results

Update

- Over 550 submissions since April
- Approved 30 projects with total budgets of \$79.9M; Supercluster commitment of up to \$45.8M

COVID-19 Making a Difference (examples)

Rapid Repurposing of Drugs for COVID-19

This project uses artificial intelligence to rapidly establish links between drugs that have the potential to combat the effects of COVID-19 and fast-track life-saving treatment for patients.





Lifesaver: Preparing for a Pandemic

A forecasting platform using a dataset for predictive modelling, that can aggregate data from public sources, health authorities and medical institutions, in addition to weighing weather and travel conditions.











Making a Difference for Canada

- Digital transformation is more important than ever before
- Canada can be a global leader- we need to act now
- SMEs have been hit hard by COVID-19 and will be the engine of our recovery
- We deliver solutions to some of our biggest problems while supporting SMEs and big organizations working together
- We look beyond today focus on in critical areas for future success: clean energy, rapid skilling, connectivity

