



Ontario Centre of Innovation Leading in Life Science

Brampton Medtech Task Force

Nov. 7, 2024

Jeff van Heumen

AVP-Business Development

What We Do



- **ACCELERATE** the development, commercialization, and adoption of Made-in-Ontario technologies to drive job creation and economic growth
- **CONNECT** industry, academic, and government to co-invest in collaborative R&D, technology development, and commercialization
- **DE-RISK** innovation, helping to attract customers and investors to companies
- Funded by the Ministry of Economic Development, Job Creation and Trade

RETURN ON INNOVATION

623

Ontario Companies
Supported

5,542

Jobs (Created
& Retained)

\$362M

Incremental
Sales Revenue

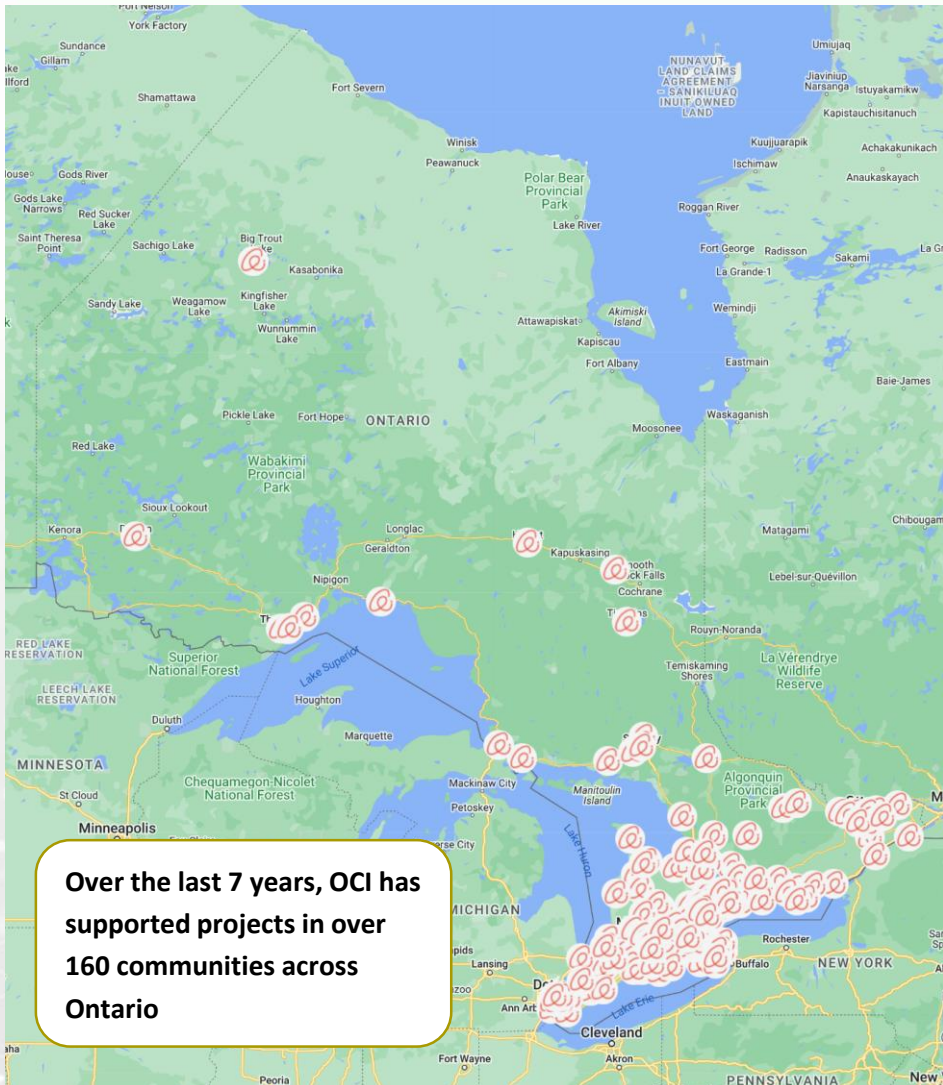
\$734M

Follow-on private
sector investment

48,603

Students engaged through workforce
development in 14 Ontario regions

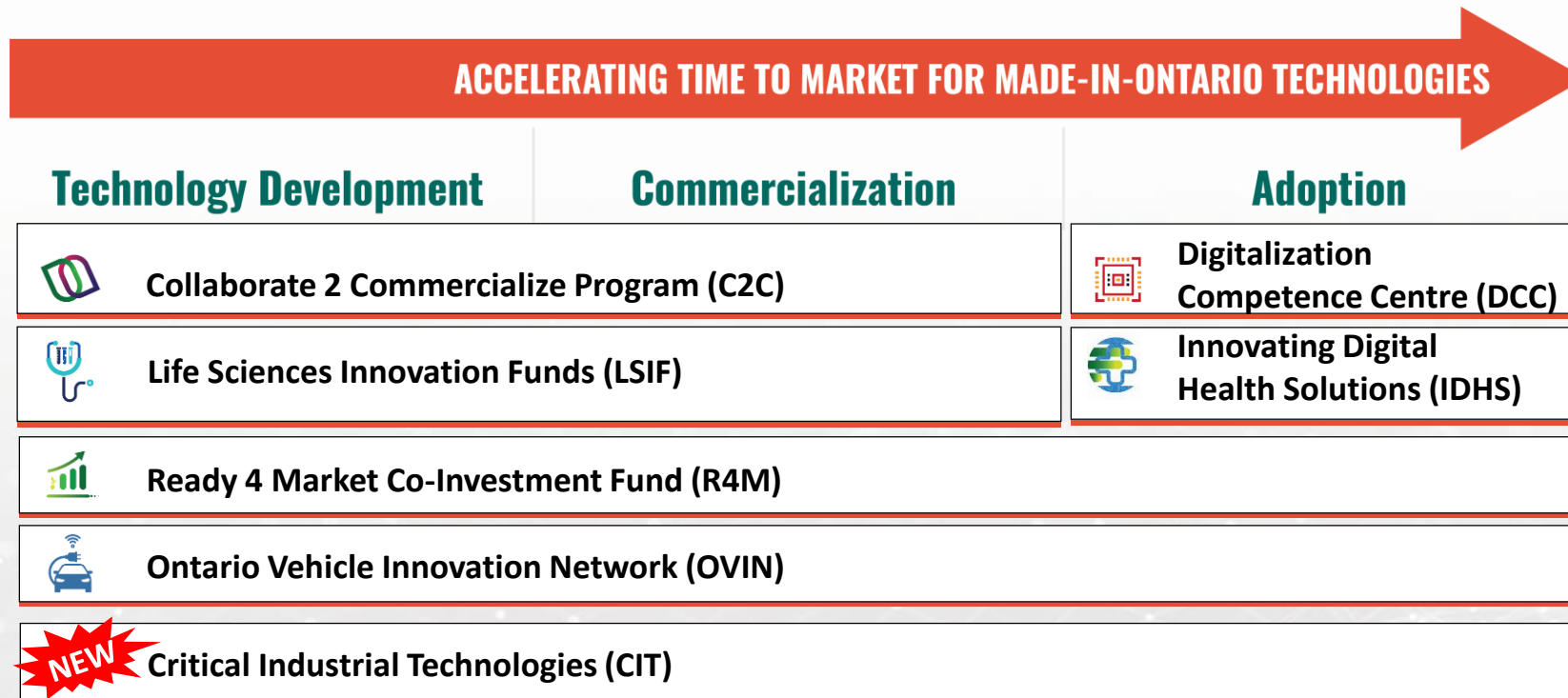
Supporting High-Potential Projects Across Ontario



Ajax	Burlington	Fort William First Nation	Lakeshore	Lake	Port Robinson	Tavistock	Woodstock
Alfred	Caledon	Georgetown	Langton	Nobleton	Port Severn	Tecumseh	York
Alvinston	Cambellford	Golden Lake	LaSalle	North Bay	Prescott	Terrace Bay	
Amherstburg	Cambridge	Grand Bend	Lindsay	North York	Prince Albert	Theford	
Ancaster	Chatham	Guelph	Lion's Head	Norwich	Puslinch	Thornhill	
Annan	Cobourg	Haliburton	Listowel	Oakville	Quinte West	Thorold	
Arnprior	Collingwood	Hamilton	Lively	Oldcastle	Richmond Hill	Thunder Bay	
Arthur	Concord	Hanmer	London	Orillia	Ridgetown	Tillsonburg	
Aurora	Cornwall	Hannon	Maidstone	Orleans	Roslyn	Timmins	
Aylmer	Crediton	Hanover	Manotick	Oro Medonte	Saint-Laurent	Toronto	
Barrie	Dobbinon	Hearst	Maple	Oshawa	Sarnia	Trenton	
Barry's Bay	Dorchester	Huron-Kinloss	Markham	Ottawa	Sault Ste. Marie	Uxbridge	
Beamsville	Downsview	Ilderton	Milton	Owen Sound	Scarborough	Vars	
Belleville	Drayton	Kanata	Mississauga	Paris	Shuniah	Vaughan	
Big Trout Lake	Dryden	Kawartha Lakes	Mitchell	Parry Sound	Simcoe	Wallaceburg	
Bloomington	Dundas	Kemptville	Mount Hope	Penetanguishene	Smooth Rock Falls	Waterdown	
Bolton	Dunnville	Kenilworth	Napanee	Peterborough	St. Catharines	Waterloo	
Bowmanville	Dunrobin	Kinburn	Naughton	Pickering	St. Thomas	Welland	
Bracebridge	East Gwillimbury	Kingston	Nepean	Picton	Stittsville	Wellington	
Brampton	Eden	Kingsville	New Hamburg	Piscataway Township	Stoney Creek	Weston	
Brantford	Elmvalle	Kitchener	Newmarket	Port Colborne	Stratford	Whitby	
Breslau	Espanola	Kleinburg	Niagara	Port Perry	Strathroy	Windsor	
Bruce Mines	Etobicoke		Niagara-on-the-	Sudbury	Sudbury	Woodbridge	

From 3400+ awarded projects

OCI Programs & Funds



*Life Sciences & Health Portfolio of
Programs and Companies*



Life Sciences Innovation Fund & Ready 4 Market Co-Investment Fund

OCI Investment Portfolio

Life Sciences Innovation Fund (LSIF)



- Ontario's leading Life Sciences and Healthcare Technologies fund
- Co-invests with angel investors in early-stage tech start-ups to support growth
- **Criteria**
 - Medical devices, therapeutics, and health IT
 - Up to \$500k investments
 - Have not raised more than \$3 million in third party investments
 - Company must be Ontario based with a minimum of 1 Ontario investor



Life Sciences Innovation Fund (LSIF)



- Portfolio companies to date
 - Investment announcement



MOU Partners

- As part of the Life Sciences Innovation Fund, OCI has established MOUs with key organizations in the life sciences ecosystem in Ontario



Ready 4 Market



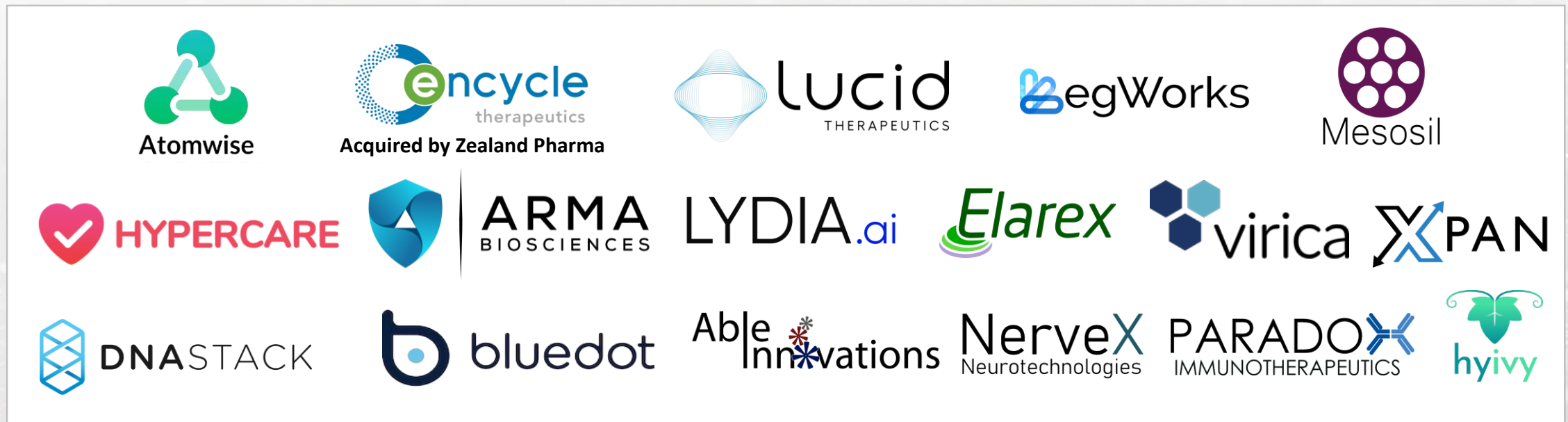
- Ontario's leading pre-seed tech fund – investing in all sectors
- Co-Investment Fund invests directly in academic affiliated companies to support early-stage commercialization and growth
- **Criteria**
 - Less than 5 years since incorporation
 - Raised less than \$1 million from 3rd party investors – must include 1 Ontario investor
 - Up to \$250k investment



Ready 4 Market (R4M) - health tech companies



- Supports early-stage Ontario-based entrepreneurs in diverse sectors. Here are the portfolio companies in the health tech space that were invested prior to the creation of LSIF
 - 45 investments made



Collaborate 2 Commercialize

Industry-Academia Collaborations

The background of the slide is a light grey gradient with a subtle, intricate network pattern of white lines and dots, suggesting a digital or scientific network.

Collaborate 2 Commercialize (C2C)



- Supports technology development collaborations between industry and post-secondary institutions
 - Standalone Funding
 - NSERC Alliance
- **Criteria**
 - Ontario-based for-profit companies
 - Minimum of 2 years in Business with 5 or more FTEs
 - Principal Investigator must be eligible to hold Tri-Council Funds



Project Examples – Biotechnology



Project Partners:

- Elarex – Biotech; next-gen vaccine platform tech
- McMaster University

Project Description:

Viral vector vaccines using Adenovirus have recently been approved for use on humans. This project seeks to demonstrate that a transgene design works to create an exosome in situ that would contain a target antigen and adjuvant.

This vaccine would be orally administered and would act on the gut mucosal tissue. It is also the aim of this project to make this vaccine dose ultra-stable at room temperature.

Other Life Sciences Companies



Biotech:

- Arthritis Innovation Corporation
- Triumvira Immunologics
- PharmAla Biotech Inc
- Mannin Research

MedTech/Digital Health:

- Marion Surgical
- COSM Medical
- CloudDX

Other Project Samples (videos, sector agnostic)

- Avicanna & UHN: <https://youtu.be/EkYE9UOsa2E?si=xhHDHh3UD0qkOIRX>
- Evercloak & Lambton College: <https://youtu.be/oCVn2AcUjP4?si=rMg0KzhAxXYT8pFG>
- Beaver Rock & Georgian College: <https://youtu.be/fHh3WXZulf4?si=4hVVUCkiQfiYOVDA>

Innovating Digital Health Solutions

Adoption of Digital Health Solution

The background of the slide is a light grey color with a subtle, abstract pattern of white dots and thin white lines, resembling a network or data flow.

Innovating Digital Health Solutions (IDHS)



- [Background and overview](#)

- IDHS enables Ontario Health Teams (OHTs) to collaborate with Ontario-based technology vendors in the evaluation, adoption, and implementation of digital health technologies. [Official announcement.](#)
- Launched in the Summer of 2023, the program deployed close to \$8M in 13 projects
- Collaboration between applicant (i.e. OHTs), technology partner (i.e. Ontario-based digital health technology business), and other partners (e.g., community-based organizations)
- OCI funding contribution: up to 50% to a maximum project cost of \$500K

Innovating Digital Health Solutions (IDHS)



- Complete list of companies and health teams engaged

Health Teams

University Health Network
William Osler Health System
The Mississauga OHT
Kingston Health Sciences Centre
Bightshores Health System
North York General Hospital
Ottawa Heart Institute
Nothern York South Simcoe OHT
Durham OHT and Urgent Care Collaborative
Queens Square Family Health Team
Thunder Bay Regional Health Sciences Centre
Grand Bend Area Community Health Centre

Technology partners

Hero AI
Swift Medical
Caredove
OPTT
Hypercare
MyJourney
Badal.io
ESRI Canada
Greenspace Mental Health
Health Espresso
Chime Technology
Aurora Constellations
Continicare

Critical Industrial Technologies

Advancement and Adoption of Critical Technologies across Key Sectors

Critical Industrial Technologies - Advanced Manuf.



- Background and overview

- CIT supports the implementation of critical technologies (i.e., 5G, AI, Cyber Security, Quantum, and Robotics) to propel four key sectors, including advanced manufacturing (AM). [Official announcement](#) of the \$50M to be deployed by the program.
- Ontario SMEs producing medical devices taking advantage of AM processes and implementing any of the critical technologies in their manufacturing could be eligible for CIT funds.
- Streams: Development and Commercialization Program (DC), Technology Access Program (TAP), Sector Adoption Program (SAP), Talent Development Internships (TDI), and Future Ready Program (FR)
- Applicant: SMEs with less than 500 global full-time employees and registered operations in Ontario
- Partner: not required, but encouraged. Partners can be a private industry and/or public sector organizations
- Technology Development site: connection facilitated by OCI to support in the tech development
- Funding: project cost variable based on stream, up to \$1M (for SAP), with variable OCI contribution

Collaborating with regional partners Co-Funded Business Development



York University is partnering with Seneca Polytechnic and the Ontario Centre of Innovation (OCI) to boost the number of applied research opportunities for small- and medium-sized enterprises (SMEs) in the Greater Toronto Area and York Region, fostering greater connections between academics and industry. October 17, 2023



New Partnership to Drive Innovation and Economic Growth in Ontario's Heartland

Through this collaboration, OCI, Trent University, Fleming College, ICPK, PKED, and Kawartha Lakes will establish a robust framework for fostering collaboration between academia and industry. By bridging the gap between theoretical knowledge and practical application, the partnership will enable businesses to access cutting-edge research and development resources.

April 17, 2024

Thank you