



Revised Agenda
MedTech Task Force
The Corporation of the City of Brampton

Date: Thursday, November 7, 2024

Time: 4:00 p.m.

Location: Hybrid Meeting - Virtual Option & In-Person in Council Chambers – 4th Floor – City Hall

Members: Deputy Mayor H. Singh (Chair)
Dr. Mohamed Lachemi, President, Toronto Metropolitan University (Vice-Chair)
Regional Councillor M. Palleschi - Wards 2 and 6
Regional Councillor R. Santos - Wards 1 and 5
Regional Councillor G. Toor - Wards 9 and 10
Tony Chahine, CEO, Myant Inc.
Vito Ciciretto, President and CEO, Dynacare
Jason Field, President and CEO, Life Sciences Ontario
Anton Katipunan, Development with RioCan, RioCan
Brian Leahy, Director, External Community Relations, Algoma University
Dr. Frank Martino, President & CEO, William Osler Health Systems
Jailpaul Massey-Singh, CEO, Brampton Board of Trade
David Moores, Vice president, Development Engineering, Orlando Corporation
Dr. Dante Morra, Chief of Medical Staff, Trillium Health Partners
Dr. Janet Morrison, President & Vice Chancellor, Sheridan College
Peter Nikolakakos, Executive Vice President, Development & Planning, First Gulf
John Sincerbox, Medtronic Canada
Carl Rodrigues, CEO, SOTI
Ken Spears, General Manager / Vice-President, Boston Scientific Canada
Darren Steedman, Vice-President, DG Group
Jay Stevens, CEO, The Stevens Company
Amy Swanson, Vice-President, MedTech Canada
Andreas Wegner, General Manager, Taro Pharmaceuticals
Mahes Wickramasinghe, EVP & Chief Administrative Officer, Rogers
Vincci Wilson, VP Development, NorthWest Healthcare Properties REIT
Blair Wolk, President, Orlando Corporation
David Wyatt, Senior Vice President, Morguard Investments Ltd

For inquiries about this agenda, or to make arrangements for accessibility accommodations for persons attending (some advance notice may be required), please contact:
Tammi Jackson, Legislative Coordinator, Telephone 905.874.3829, TTY 905.874.2130
cityclerksoffice@brampton.ca

Note: Meeting information is also available in alternate formats upon request.

1. Call to Order

2. Approval of Agenda

3. Declarations of Interest under the Municipal Conflict of Interest Act

4. Previous Minutes

The minutes were considered by Committee of Council on June 26, 2024, and were approved by Council on July 10, 2024. The minutes are provided for Committee's information.

5. Presentations / Delegations

5.1 Opening Remarks by Deputy Mayor Singh and Dr. Mohamed Lachemi, President of Toronto Metropolitan University (TMU).

*5.2 Presentations by Stakeholders:

1. William Osler Health System

- Dr. Greg Rutledge, Chief of Staff and Executive VP, Medical & Academic Affairs
- Tiziana Rivera, Executive VP, Quality and Research and Chief Nursing Executive

2. Ontario Centre of Innovation

- Jeff Van Heumen, Assistant Vice-President, Business Development

The presentations were received and published on the City's website on November 5, 2024.

To be received.

6. Other / New Business / Information Items

6.1 Follow-up on Key Projects:

1. Wet Labs – Feasibility Study / Consultation Update

- Daniel Lacey, AVP, CBRE Life Sciences; Ross Wallace, Principal, Santis Health

To be received.

6.2 MedTech Task Force - 2025 Meeting Schedule

To be received.

7. Member Questions / Roundtable

8. Correspondence

9. Question Period

10. Public Question Period

15 Minute Limit (regarding any decision made at this meeting)

11. Adjournment

Closing Remarks by Deputy Mayor Singh and Dr. Mohamed Lachemi, President of Toronto Metropolitan University (TMU).

Next Scheduled Meeting: Thursday, April 24, 2025, at 4:00 p.m. in the Council Chambers at Brampton City Hall.

Note: Refreshments and networking for Task Force members and invited guests will be held in the Council Lounge following the meeting.



Minutes

MedTech Task Force

The Corporation of the City of Brampton

Thursday, May 30, 2024

- Members Present:
- Deputy Mayor H. Singh (Chair)
 - Dr. Mohamed Lachemi, President, Toronto Metropolitan University (Vice-Chair)
 - Regional Councillor R. Santos - Wards 1 and 5
 - Dave Casimiro, Managing Director, NorthWest Healthcare Properties REIT
 - Vito Ciciretto, President and CEO, Dynacare
 - Sheri Dodd, President, Medtronic Canada
 - Jason Field, President and CEO, Life Sciences Ontario
 - Jaipaul Massey-Singh, CEO, Brampton Board of Trade
 - Dr. Frank Martino, President & CEO, William Osler Health Systems
 - Dr. Janet Morrison, President & Vice Chancellor, Sheridan College
 - Jay Stevens, CEO, The Stevens Company
 - Amy Swanson, Vice-President, MedTech Canada
 - Andreas Wegner, General Manager, Taro Pharmaceuticals
 - Vincci Wilson, VP NorthWest Healthcare Properties REIT
 - Mahes Wickramasinghe, EVP & Chief Administrative Officer, Rogers
 - David Wyatt, Senior Vice President, Morguard Investments Ltd
 - Deepak Sharma, William Osler Health Systems (Alternate)
- Members Absent:
- Regional Councillor M. Palleschi - Wards 2 and 6
 - Regional Councillor G. Toor - Wards 9 and 10
 - Tony Chahine, CEO, Myant Inc.
 - Anton Katipunan, Development with RioCan, RioCan
 - Brian Leahy, Director, External Community Relations, Algoma University
 - David Moores, Vice President, Development Engineering, Orlando Corporation

Dr. Dante Morra, Chief of Medical Staff, Trillium Health Partners
Peter Nikolakakos, Executive Vice President, Development &
Planning, First Gulf
Carl Rodrigues, CEO, SOTI
Ken Spears, General Manager / Vice-President, Boston
Scientific Canada
Darren Steedman, Vice-President, DG Group
Blair Wolk, President, Orlando Corporation

1. **Call to Order**

The meeting was called to order at 4:08 p.m. and adjourned at 5:39 p.m.

2. **Approval of Agenda**

The following motion was considered.

MTTF001-2024

That the agenda for the MedTech Task Force Committee Meeting of May 30, 2024, be approved as published and circulated.

Carried

3. **Declarations of Interest under the Municipal Conflict of Interest Act**

Nil

4. **Previous Minutes**

The minutes were considered by Committee of Council on November 29, 2023, and were approved by Council on December 6, 2023. The minutes were provided for Committee's information.

5. **Presentations / Delegations**

5.1 Presentation by Stakeholders:

1. Algoma University
 - Dr. Istvan Imre
2. Roga Life
 - Dr. Alison Smith, Co-Founder and Chief Scientist
3. Medical Alley, MN
 - Frank Jaskulke

Dr. Istvan Imre, Algoma University, provided a brief overview of the company that included the following:

- Two initiatives being implemented:
 - Ontario Mental Health & Addictions Research Training Institute (OMHARTI) at the Sault Ste. Marie and Brampton locations
 - National Centre of Excellence in Immersive Technology partnering with Unity.
- Outlined the purpose and goals of OMHARTI.
 - Brampton location - 145 Queen Street East - newly leased independent building.
 - The facility will host undergraduate and graduate programming in the areas of Psychology and Social Work.
- The National Centre of Excellence (CoE) in Immersive Technology focuses on bridging the divide between the augmented reality.
 - Outlined the vision and mission of the initiative.
 - CoE Pillars - Education Advancement and Skill Development; Innovation and Industry collaboration; Community Integration and Outreach.

Dr. Alison Smith, Co-Founder and Chief Scientist, Roga Life, provided a brief overview of the company that included the following:

- Roga Life is an early stage MedTech startup that is part of the Brampton Venture Zone.
- Mental healthcare platform to treat employee stress, anxiety and burnout.
- Sells corporate health benefits.
- Since the pandemic stress and anxiety have significantly increased, especially for those within the workforce.
 - 72 percent of employees are experiencing intense stress resulting in performance decline, absenteeism, turnover and medical expenses.
 - To deal with such anxieties people only have access to talk therapists and medication.
 - Looking for MedTech solutions to assist individuals wherever they are.

- Mental Healthcare Platform - wearable device (effectively reduces stress and burnout) and AI guided meditations (personalized guided meditations and treatment progress analytics).
- Currently on the market as a "wellness device" for intense stress and burnout.
- Future goal is to achieve "Medical Device Status" to treat anxiety.

Frank Jaskulke, Medical Alley, MN, provided a brief overview of the company that included the following:

- Not-for-profit trade association.
- Outlined the company's mission and vision.
- Partnership services: connections, advocacy, insights, engagement.
- Foundational and sustaining partners.
- Medical Alley Board of Directors
- Strategic Value Creation - four core initiatives: Medical Alley Starts, Medical Alley Global, Healthcare Transformation Initiative (HTI) and Local and Federal Policy.
- Strategic Initiatives: enabling healthcare innovation, elevate business progress, transform health equity.

The following motion was considered.

MTTF002-2024

That the following presentations to the MedTech Task Force Committee Meeting of May 30, 2024, re:

1. **Algoma University**
2. **Roga Life**
3. **Medical Alley, MN**

be received.

Carried

6. Other / New Business / Information Items

The following motion was considered.

6.1 Updates:

1. The Brampton Medical School
 - Dr. Mohamed Lachemi
2. Update from the Brampton Venture Zone
 - John MacRitchie and Fardan Khan

Dr. Mohamed Lachemi, President, Toronto Metropolitan University (TMU), provided an update on the Brampton Medical School that included:

- On track to welcome the first group of medical learners in 2025:
 - 105 residents (July 2025 Intake)
 - 94 MD students (September 2025 Intake)
- Clinical affiliations will ensure the delivery of high-quality placements and celebrate primary care.
- Integrated Health Centre (IHC) will increase primary care access.
- Accreditation process is proceeding on schedule.

John MacRitchie and Fardan Khan, Brampton Venture Zone, provided a brief update on the Brampton Venture Zone that included the work undertaken to date and the work that is upcoming for 2025.

The following motion was considered.

MTTF003-2024

That the following updates to the MedTech Task Force Committee Meeting of May 30, 2024, re:

1. **Brampton Medical School**
2. **Brampton Venture Zone**

be received.

Carried

6.2 Follow-up on Key Projects:

1. Wet Labs - Outline of Feasibility Study / Consultation
 - Martin Bohl, Sector Manager, Health & Life Sciences, Office of the Chief Administrative Officer, City of Brampton
2. The MedTech Conference, Toronto - October 15 - 17, 2024
 - Amy Swanson
 - Martin Bohl, Sector Manager, Health & Life Sciences, Office of the Chief Administrative Officer, City of Brampton
3. Other Items - Sector MedTech Outline (new) with Our Stakeholders (Including BIO 2024)
 - Martin Bohl, Sector Manager, Health & Life Sciences, Office of the Chief Administrative Officer, City of Brampton

Martin Bohl, Sector Manager, Health & Life Sciences, Office of the Chief Administrative Officer, City of Brampton provided an update on the Wet Lab - Feasibility Study/Consultation.

Amy Swanson, Vice-President, MedTech Canada and Martin Bohl, Sector Manager, Health & Life Sciences, Office of the Chief Administrative Officer, City of Brampton provided an update on the subject matter that included the following:

- Four pillars of the conference: Networking, education program, partnering and investor forum and the MedTech campus.
- Flexpass Campaign
- Registration rates.
- All-access pass includes: four days of education, networking, access to the Medtech campus, and partnering with thousands of Medtech innovators.
- Partnered with Destination Toronto at the conference and will be at booth 700.
- Deputy Mayor Singh and Councillor Toor will be available on October 17th for half a day.
- Looking at setting up a panel discussion at the booth.

Martin Bohl, Sector Manager, Health & Life Sciences, Office of the Chief Administrative Officer, City of Brampton provided an update on the subject matter that included the following:

- Looking to update the marketing panel.
- Change the narrative and look at our research, startup companies.
- Asking for input or key items to showcase moving forward into 2025.

The following motion was considered.

MTTF004-2024

That the following Verbal Updates on Key Projects to the MedTech Task Force Committee Meeting of May 30, 2024, re:

1. **Wet Labs - Outline of Feasibility Study/Consultation**
2. **MedTech Conference, Toronto - October 15 - 17, 2024**
3. **Sector MedTech Outline (new) with Our Stakeholders (Including BIO 2024).**

be received.

Carried

6.3 Information Item re: Concept for a 2025 Conference in Brampton –Brain Injury Association Peel Halton, Nick Kuryluk and Sarah Diaz

Nick Kuryluk and Sarah Diaz, Brain Injury Association Peel Halton provided information regarding the Concept for a 2025 Conference in Brampton and advised they were seeking the Committee's support and financial backing to secure the Rose Theatre for a one-and-a half to two-day conference in 2025.

The following motion was considered.

MTTF005-2024

That the presentation from Sarah Diaz, Brain Injury Association, Peel Halton, re: Concept for a 2025 Conference in Brampton, to the MedTech Task Force Committee Meeting of May 30, 2024, be received.

Carried

7. **Member Questions / Roundtable**

Nil

8. **Correspondence**

Nil

9. **Question Period**

Nil

10. **Public Question Period**

Nil

11. **Adjournment**

Closing Remarks were provided by Deputy Mayor Singh and Dr. Mohamed Lachemi, President of Toronto Metropolitan University (TMU).

The following motion was considered.

MTTF006-2024

That the MedTech Task Force do now adjourn to meet again for a Regular Meeting of Committee on Thursday, November 7, 2024 at 4:00 p.m. or at the call of the Chair.

Carried

Deputy Mayor H. Singh (Chair)

Mohamed Lachemi (Vice-Chair)

YOUR MEDTECH PARTNER

YOUR MEDTECH PARTNER

TORONTO

Brampton's Key
Partners and
Collaborators:



INVEST BRAMPTON

Australia

concord
Medical Device
Services
Canada and USA
• Regulatory strategy
and compliance
• Agency meetings
• Regulatory applications
• Medical devices, IVD, IVDs,
combination products, etc.
• Regulatory strategy, health
and care
MDSI | Regulatory@concord.com

Prescript

303

302

301

600

700

Mississauga's
Technology
Cluster

2nd
940+
44,000





ONTARIO
CANADA
YOUR MEDTECH PARTNER

TORONTO

THE MEDTECH
CONFERENCE
KEYNOTE
THEATRE
ENTRANCE

Australia

HAMILTON

chs
Your Partner in Customized
Healthcare Solutions.

TORONTO

9:00AM – 10:00AM
▶ BRAMPTON'S START-UP ECOSYSTEM

MODERATOR
MARKIRAT SINGH
City Mayor, City of Brampton

MODERATOR
ARTAP SINGH TOOR
City of Brampton

ON SMITH
Co-founder

IK BISWAS
Tenomix



IB. IN RESEARCH
D DEVELOPMENT

TECH IN MOTION
GE HealthCare

INOVAIT
Canada's Emerging Guided Therapy and
Artificial Intelligence Network

moonrise
MEDICAL
Enabling the power of visible
light for everyone

William Osler Health System Osler Research Institute for Health Innovation

MedTech Task Force

November 7, 2024

*Dr. Greg Rutledge, Chief of Staff
and Executive Vice President, Medical & Academic Affairs*

*Tiziana Rivera, Executive Vice President of Quality, Research
and Chief Nursing Executive*





Dr. Greg Rutledge

- Chief of Staff and Executive Vice President, Medical and Academic Affairs
- Regional Lead of Emergency Medicine at Ontario Health West
- Former Emergency Medicine Program Director at McMaster University and Chief of Emergency Medicine at St. Joseph's Healthcare in Hamilton
- Medical Director for the Toronto Marlies and Emergency Physician for the Toronto Maple Leafs



Tiziana Rivera

- Executive Vice President, Quality, Research and Chief Nursing Executive
- Adjunct Professor, Daphne Cockwell School of Nursing, Toronto Metropolitan University
- Award of Excellence in Nursing Leadership recipient from Ontario Hospital Association
- Supporting international adoption of best practices with the Registered Nurses' Association of Ontario
- Surveyor, Accreditation Canada

Growing Community, Growing Needs

1.3M+ residents

Fast-growing, high-density
population

At least 63% visible minorities

Seniors population will double over
the next 20 years

Greater proportion of medically-
complex patients

One of the highest rates of diabetes
in Ontario



-  **Brampton Civic**
-  **Peel Memorial**
-  **Etobicoke General**
-  **Withdrawal Management Centre**
-  **Reactivation Care Centre**



Osler's Sites



Brampton Civic Hospital



Etobicoke General Hospital



Peel Memorial Centre for Integrated Health and Wellness



Reactivation Care Unit



Withdrawal Management Centre

Osler By the Numbers 2023-24



1,151,329

Patient Visits



300,962

Emergency and
Urgent Care Visits



560,777

Outpatient Clinic
Visits



52,592

Inpatients



7,953

Births



4,604

Cancer Surgeries



577,871

Diagnostic Images



72,108

Surgeries



7,154

Staff



1,108

Physicians



1,572

Learners



1,100

Volunteers

Osler is one of
the **busiest**
community
hospitals in
Canada

Going Beyond

Strategic Plan
2024-2029

for our people and communities

OSLER'S VISION

World-class health care inspired by our people and communities

OSLER'S MISSION

Innovative health care delivered with compassion

OSLER'S VALUES

- Respect
- Excellence
- Service
- Compassion
- Innovation
- Collaboration

OSLER'S PROMISE

Going beyond



< Scan to learn more



Strategic Directions

People & Culture

Inspiring a sense of belonging that supports people to be their best and do their best

Quality Excellence

Relentlessly pursuing world-class, high-quality health care

Health System Leadership

Leading and partnering to transform the health system for Osler's communities and beyond

Organizational Effectiveness

Optimizing resources to provide effective health care for the communities we serve

Research & Academics

Developing the health care providers and researchers of tomorrow



Strategic Foundations



Equity, Diversity & Inclusion



Innovation & Collaboration



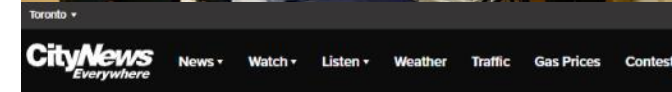
Infrastructure & Technology



Financial Stewardship

System Leadership and Firsts

- Endovascular Therapeutics Suite
- Cardiology Program including ICD implantation
- Multiple advanced surgical techniques
 - Robot-assisted knee replacement
 - Intellijoint HIP
 - MOLLI 2 System
- Repetitive Transcranial Magnetic Stimulation
- Hospital-based Paediatric Diabetes Education Centre
- Butterfly Approach to Dementia Care
- Cancer care
 - Most oncology clinical trials of any community hospital
 - Designated Centre of Integrated Oncology and Palliative Care
 - Next Generation Sequencing
 - In-house liquid biopsy for cancer testing



City News GTA HOSPITAL FIRST IN CANADA TO OFFER CRITICAL CANCER TOOL

Innovation in Action

Conference Report

Barriers and Unequal Access to Timely Molecular Testing Results: Addressing the Inequities in Cancer Care Delays across Canada

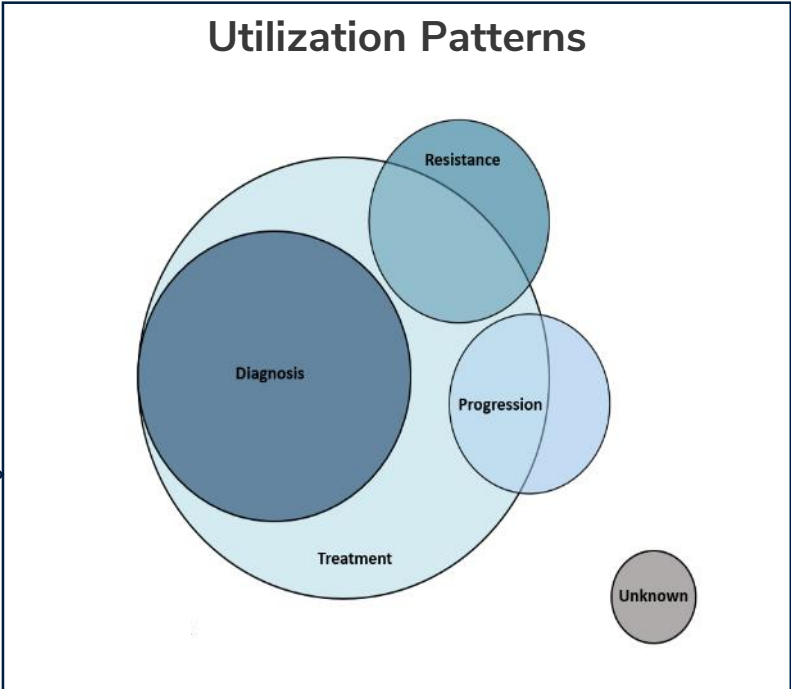
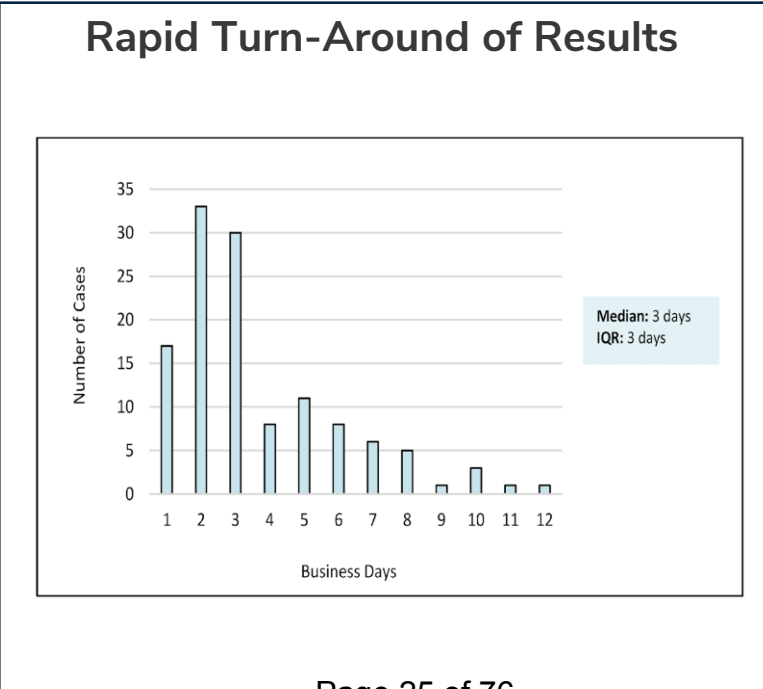
Stephanie Snow¹, Christine Brezden-Masley², Michael D. Carter³, Neesha Dhani⁴, Cassandra Macaulay⁵, Ravi Ramjeesingh¹, Michael J. Raphael⁶, Monika Slovynec D'Angelo⁵ and Filomena Servidio-Italiano^{5,*}

Point of Care Liquid Biopsy in Cancer Care

Invasive Biopsy

Bone marrow biopsy Excisional biopsy Sentinel node biopsy Needle biopsy

Liquid Biopsy



Medical Education at Osler

- As a community teaching hospital, Osler is a site of learning for medical students, residents and fellows enrolled in a Canadian medical school
- A unique three school affiliation model: Toronto Metropolitan University, McMaster, University of Toronto
- Success elements include: engaged staff, tremendous clinical teaching opportunities, diverse patient and provider populations
- Exponential (9x) rise in medical trainee days anticipated over next five years



Medical Education Ecosystem and Innovation

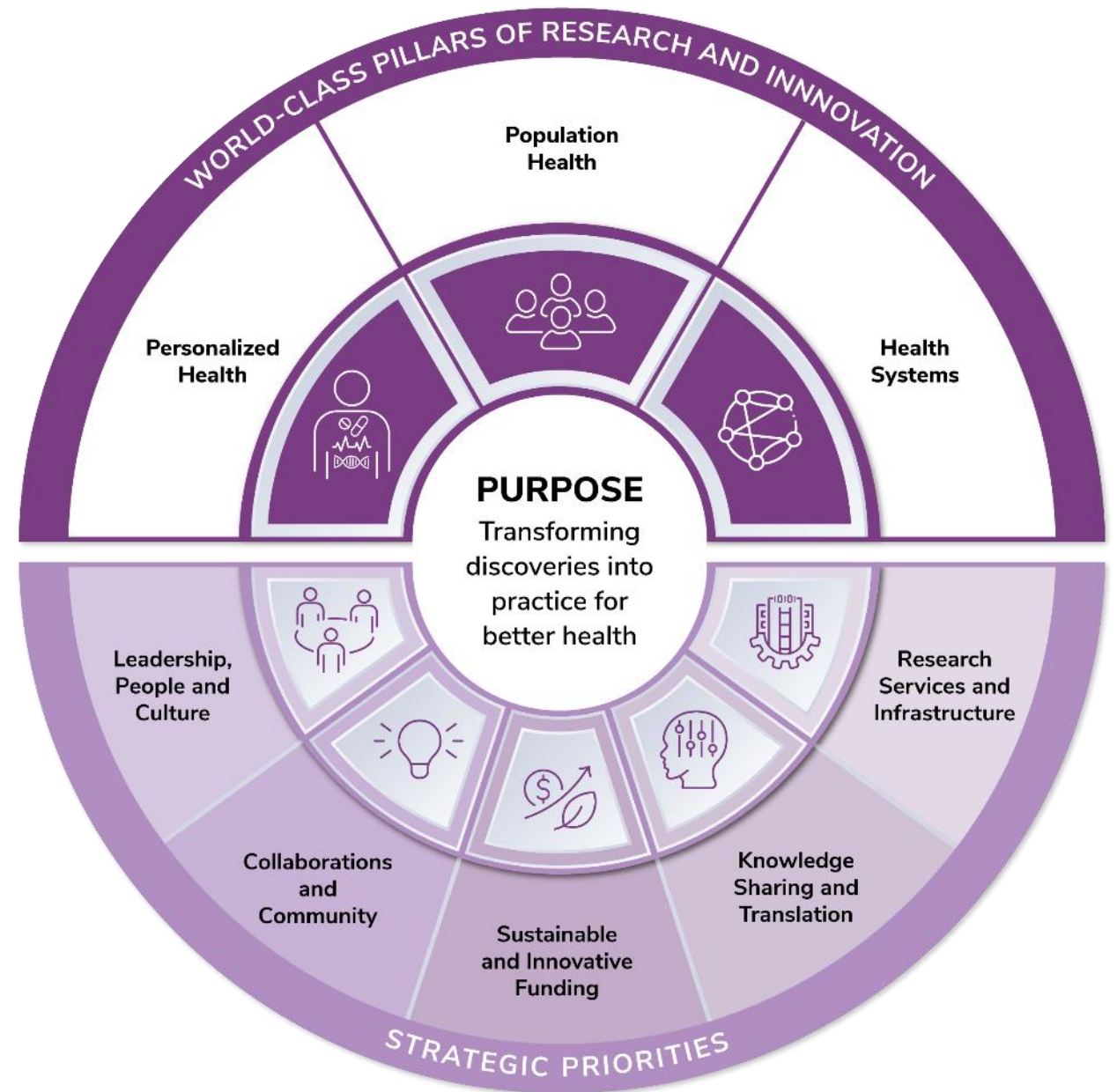
- Talent pipeline for local healthcare and life sciences
- Recruitment of academic physicians, clinician-scientists into Brampton, supported by medical learners
- Enhanced platform for community partnerships, research and industry collaborations
- Deepen the culture of inquiry
- Presence of more medical learners will enhance Brampton's reputation as a life sciences hub and foster synergies with University innovation centres



Osler Research Institute for Health Innovation (ORIH) Strategy-At-A-Glance



Osler Research Institute
FOR HEALTH INNOVATION



ORIH By The Numbers

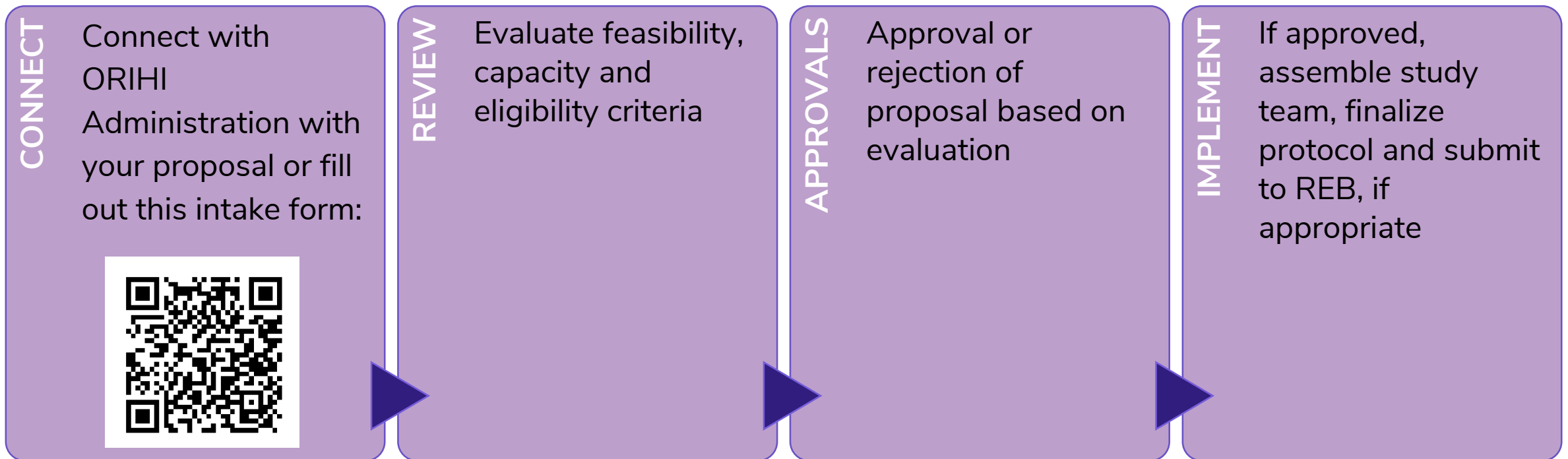


Osler Research Institute
FOR HEALTH INNOVATION

FY2023-2024	OVER THE LAST DECADE
76 Clinical Trials	591 Publications
1,150 Subjects Enrolled In Studies	252 Conference Abstracts
34 Full Time Staff	>50 Programs Areas Conducted Research
TOP 5 RESEARCH PROGRAMS	537 Studies
<ol style="list-style-type: none"> 1. Oncology 2. Infectious Disease 3. Cardiology 4. Hepatology 5. Ophthalmology 6. Pediatrics 	259 Individuals have lead research projects

How Can ORIH Contribution to the Innovation Ecosystem ?

Partnership Pathway



Requirements & Considerations

Requirements for device or drug studies at ORIH as laid out in Health Canada Division 5 Regulations.

Minimum requirements are as follows:

- **Device** - Investigational Testing Authorization (ITA) from Health Canada
- **Drug** - No Objection Letter (NOL) from Health Canada

Requirements of Study Teams:

- Require an Osler staff or physician to be a Principal Investigator
- Require all study staff to have their TCPS2, GCP and Health Canada Division 5 certifications

Types of Studies ORIH conducts:

- Clinical Trials Phase 2,3,4 (No Phase 1, pre-clinical studies or animal studies at this time)
- AI/machine learning studies
- Qualitative Studies



ORIH Service Offerings





Pay-for-Use

- Research Study Staff
 - Protocol development and consent forms
 - Recruitment and participant consent
 - Data collection
 - Study specific assessments
 - Coordinate clinical research
 - Timelines and budgets
- Research Ethics Board
 - Pre-Consultation
 - Application
 - Delegated and Full Board Review
- Laboratory and Diagnostic Services

Additional offerings at no charge

- Identifying an Osler Principal Investigator
- Consultation or working with ORIH Community-Based Research Advisory Committee – access to community voices and perspectives

Celebrate Research Week – November 18-22

Milestone Moments	Unique Moments		
<p>Official launch of Osler Research Institute for Health Innovation (ORIH)</p> <p>Release of ORIH Strategic Plan 2025-2030</p> <p>City-wide proclamation of Celebrate Research Week</p>	<p>ORIH Banner Reveals across Osler's sites</p> 	<p>Art/Science Exhibit: Daniela Brill Estrada's "Our Celestial Bodies" and local Brampton artists</p> 	<p>TMU Immersive Experience of the School of Medicine</p> 
<p>Full Agenda:</p> 	<p>Keynote: Dr. Parneet Cheema, Head of Cancer Research, Osler</p> <p>Panel: Health Systems Transformation at City Hall Conservatory</p>	<p>Keynote: Equitable Healthcare for Diverse Communities</p> <p>Community Research Fair and Networking Event at City Hall Conservatory</p>	<p>Panel: How Technology is Advancing Health Research</p>

Celebrate Research Week Schedule

Date	November 18	November 19	November 20	November 21	November 22
Theme	Celebration Day	Partnership Day	Health Systems Transformation Day	Innovation and Technology Day	Community Health, Wellbeing & Education Day
Location	Brampton Civic Hospital	Etobicoke General Hospital	Peel Memorial Centre for Integrated Health and Wellness	Brampton Civic Hospital	Brampton Civic Hospital
ORIH Banner Reveal	10:00 a.m.	2:00 p.m.	10:00 a.m.		
Keynote speaker and panels	10:45 a.m. Dr Parneet Cheema Head of Cancer Research	2:30 p.m. Dr Sergio Borgi Infectious Disease Specialist	10:30 a.m. Panel: Dr. Martin Chasen, Dr. Marco lafolla, Tiziana Rivera moderated by Rishika Thakur, Central West Ontario Health Team	10:00 a.m. Panel Discussion moderated by Dr. Hina Marsonia, Pharmacist 2:00 p.m. Panel Discussion hosted by Brampton Venture Zone and Altitude Accelerator	10:00 a.m. Keynote: Leah Stephenson, All.CAN Strategic Lead 12:00 p.m. Dr. Teresa Chan, Dean, Toronto Metropolitan University School of Medicine
Research Open House	12:00-1:30 p.m.	12:00-1:30 p.m.	12:00-1:30 p.m.		
Community		Community Research Fair @ City Hall	Panel "Health Systems Transformation" @ City Hall		



Thank you
Questions and Discussion



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

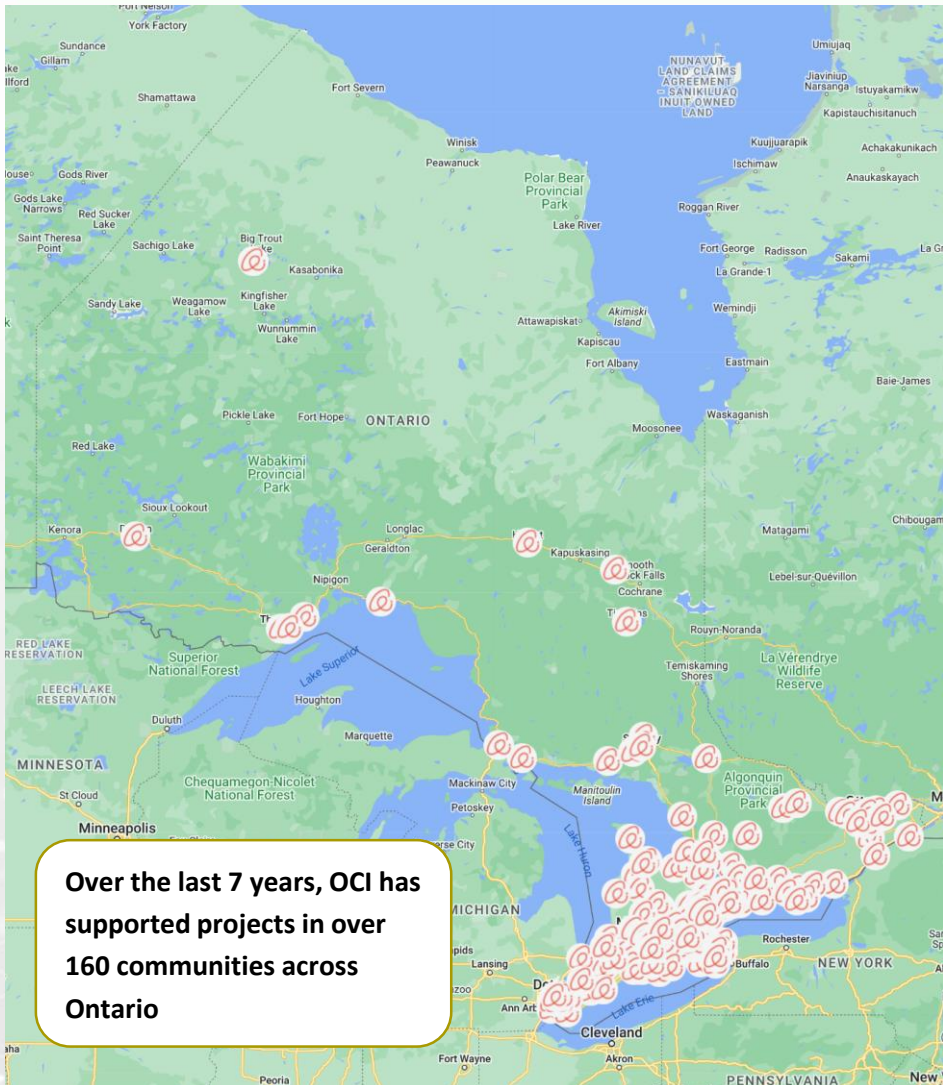
\$734M

Follow-on private
sector investment

48,603

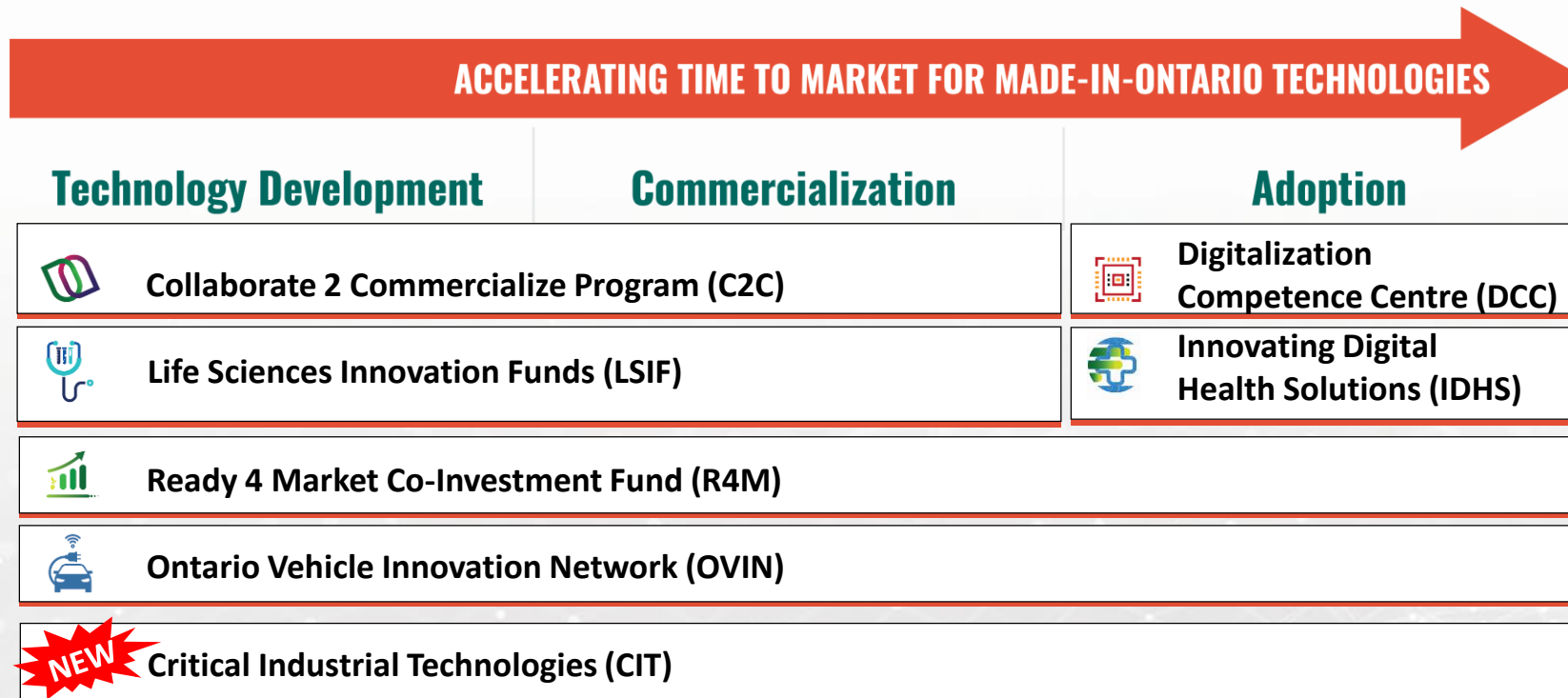
Students engaged through workforce
development in 14 Ontario regions

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	

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

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

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

Identifying the Needs for Lab Space in Brampton

November 7, 2024

Study Goals

CBRE, in partnership with Santis Health, conducted a feasibility study **to assess lab space demand for the life science sector in Brampton.**

This feasibility study aims to **identify the market demand for lab space, opportunities for partnerships, and the ideal composition of ecosystem players to create a thriving lab environment in Brampton** that supports the growth of institutional players, collaboration with industry partners, and development of early-stage companies through a collaborative life sciences community.

This work will support the City of Brampton in:

- Providing insights to help start-up retention in Brampton and Ontario
- Acknowledging investments (past and future) in its Innovation District
- Help develop talent for growing firms
- Enhancing Brampton's role in Ontario Life Sciences Strategy growth

This study provides insights using **two approaches:**

- 1) Ecosystem Analysis
- 2) Real Estate Analysis

Study Approach: (1) Ecosystem Analysis



Semi-structured interviews:

1-hour semi-structured **interviews.**

Target groups: Government, Healthcare, Academia, Industry, Ecosystem Partners

27 Completed Interviews

1 Scheduling in Progress

2 Declined / Non-Responsive Interviews

We provided interviewees with overall questions in advance.

Overall interview questions:

1. *What is the current state of lab space in Brampton?*
2. *Do you feel Brampton has the pieces/components for a thriving life sciences ecosystem?*
3. *What is the optimal location for new lab space in Brampton?*
4. *What would success look like for lab space in Brampton in 2-5 years?*

Stakeholders Engaged

Government (n=3), Academia (n=4),
Industry (n=11), Ecosystem partners (n=9)



Ministry of Economic
Development, Job
Creation and Trade



TORONTO BUSINESS
DEVELOPMENT CENTRE



Study Approach: (2) Real Estate Analysis



Assessing the Demand

Determine the estimated **demand for laboratory space** and evaluate its **viability**.

- 1) Market outreach through CBRE's proprietary "Tenants in the Market" list
- 2) Establish any demand from key local institutions and assess their needs



Location intelligence

To identify the **ideal location for a thriving life science asset** we analyzed the following criteria:

- 1) Demand and industry clusters
- 2) Transportation and accessibility
- 3) Proximity to skilled workforce and ideation
- 4) Partnership and collaboration opportunities

Our Research Generated 5 Key Insights

1. Many Stakeholders Possess a **General Awareness of Brampton's Advantages...BUT Knowledge** of Brampton's Specific Innovation Assets **is Insufficient and Incomplete**
2. Brampton Has the **Critical Mix of "Anchor Institutions"** Required to Support a Thriving Ecosystem and **Strengthening Those Institutional Ties** Will Be Critical to Future Growth
3. **MedTech** is Brampton's **Area of Greatest Opportunity**, while Start-Ups and SMEs Need **Space AND Services**
4. **Phase II of Ontario's Life Sciences Strategy** Comes at the Perfect Time
5. Brampton Has a Number of **Logical Development Sites**

1. Many Stakeholders Possess a General Awareness of Brampton's Advantages...BUT Knowledge of Brampton's Specific Innovation Assets is Insufficient and Incomplete

- **Brampton's location**, in the Toronto and Kitchener-Waterloo corridor, makes it attractive for medical innovation and talent access.
- Brampton offers **more affordable real estate** compared to neighbors.
- **Close proximity to key partners** enables engagement among healthcare professionals, academic institutions, and startups.
- Significant **political will** exists in Brampton to develop the life sciences sector.
- However, many stakeholders outside Brampton are **uninformed about its strengths and unsure** what differentiates the city in this sector.

Physical proximity is key in the context of how you sort of package it together and don't create an island unto yourself ...but leverage it

Brampton has political will, it is a less tangible piece but that is huge. It's really important because that would accelerate the development of this.

I was doing some Googling to try and understand if there was any sort of centralized repository of assets that are available but I could not find it

I know the medical school is coming but other than that, no.

2. Brampton Has the Critical Mix of “Anchor Institutions” Required to Support a Thriving Ecosystem and Strengthening Those Institutional Ties Will Be Critical to Future Growth



Partnerships with key stakeholders are essential for driving innovation and providing resources.



Medical and academic institutions can provide resources, such as Principal Investigators (PIs) and access to patient populations for preclinical studies.



Existing collaborations between startups, hospitals, and research institutions need better integration to provide access to lab spaces, product validation, and equipment.



The need for streamlined processes in place was emphasized for a successful collaboration in Brampton.

“

It would be great if the city would work collaboratively with the medical school to try to get funding from the FedDev regional development innovation program.

”

“

The medical school at TMU would be a great collaborative partner so that clinicians at the Med school would be on site as PIs to help access the patient population.

”

“

Success looks like an integrated partnership with hospital researchers and the industry working together to achieve the impossible. To improve the health of the Brampton community through partnership, through collaboration, through an integrated approach, rather than everybody working in their own buildings with their own interests.

”

“

There needs to be more of a streamlined pathway that makes sense so that it's a bit less segregated

”

3. MedTech is Brampton's Area of Greatest Opportunity, while Start-Ups and SMEs Need Space AND Services



Brampton's medtech sector as its key strength in contrast with the biotech sector.

- There is currently **no incubator or accelerator** in the region for MedTech companies in areas such as **quality management systems and regulatory needs**.
- Biotech potential exists in oncology and mental health, supported by clinical research **capabilities at William Osler**.



Companies need space and services

- Early-stage MedTech companies in Brampton **need clear processes and guidance** to navigate **commercialization**.
- There is a lack of **high-caliber mentors and regulatory advice**.
- Startups struggle with **funding for pre-clinical trials and pilot studies**, making it difficult to enter new ecosystems effectively.

If Brampton decides to take a Medtech angle, they have to make sure it's complementary to whatever neighbors are doing. It is important to recognize what's their strength.

It might be that a coalition of those big medtech companies in Brampton gets formed.

So far we haven't had access to that caliber of mentor. We're looking for mentors that have been in the Medtech space for Class 2 devices.

The problem is to commercialize the technology, and commercialize an idea requires a very different skill set. Research groups are usually not good at that.

4. Phase II of Ontario's Life Sciences Strategy Comes at the Perfect Time

October 15, 2024: Announcement of **Phase II of Life Sciences Strategy**

- The Strategy focuses on promoting innovation, increasing investments, and advancing research to strengthen the province's position as a global leader in biomanufacturing and health sciences.
- The Strategy came with an **investment of \$146 million**. Some of the investments include:
 - Up to **\$46 million** for the Ontario Biosciences Research Infrastructure Fund, to help **boost research capacity** at **academic institutions and research hospitals**.
 - **\$15 million** for a new wet labs program to make it easier for companies to **access lab spaces**.
 - **\$40 million** from the Venture Ontario Fund to **support venture capital for Ontario-based life sciences companies and biomanufacturers**.
- Phase II promises a **new Health Innovation Pathway**, aimed to **streamline and simplify access** for health care organizations **to adopt groundbreaking technologies** with the priority to support Ontario-based innovations.

Real Estate Analysis - Assessing the Demand (I)

CBRE entered into the project with an expectation that the commercial demand it had been tracking throughout the GTHA would not justify a new lab development in Brampton. While that assumption wasn't proven to be wrong, **we found something that proved to be far more critical.**



118 active tenant requirements were surveyed on both their requirement status and asked the question of “**what about Brampton**”unsurprisingly, **results were mixed**



General sentiment was **a desire to stay close to where the company was founded** due to existing employee bases and founder participation in ongoing institutional work, however, 37% of respondents indicated that they would consider making the **move to Brampton if the lab space and support services they require exist there**



It should be noted that these companies are generally looking for turnkey space and don't have the capital for build-outs, budget for market rent based on cost, nor **covenants that would be deemed “bank financeable”**

The question that needed to be answered was whether or not the type of tenant demand that can support the underwriting of a new development existed. We found that the **viable institutional demand to support a development pro forma seems to exist from within Brampton**.....the question then is, how do we bring that together?

Real Estate Analysis - Assessing the Demand (II)

As mentioned, the project initially assumed that lab demand external to Brampton was the key factor to growing the sector, however, the City needs to **build the environment that not only attracts, but more importantly, fosters from within**...building this starts with the needs of the institutional anchors.



Early indications for the new school of medicine are that it will be focused on training clinical staff...**TMU needs to have innovation planned into that facility**



WOH needs to expand their research operations and if this can be done as part of a multi-tenanted facility, this would be a catalyst for innovation and collaboration



Both the location and space needs at BVZ are under consideration...**if lab space was accessible, it would support start-up programming and provide a key component in the “suite of services”**



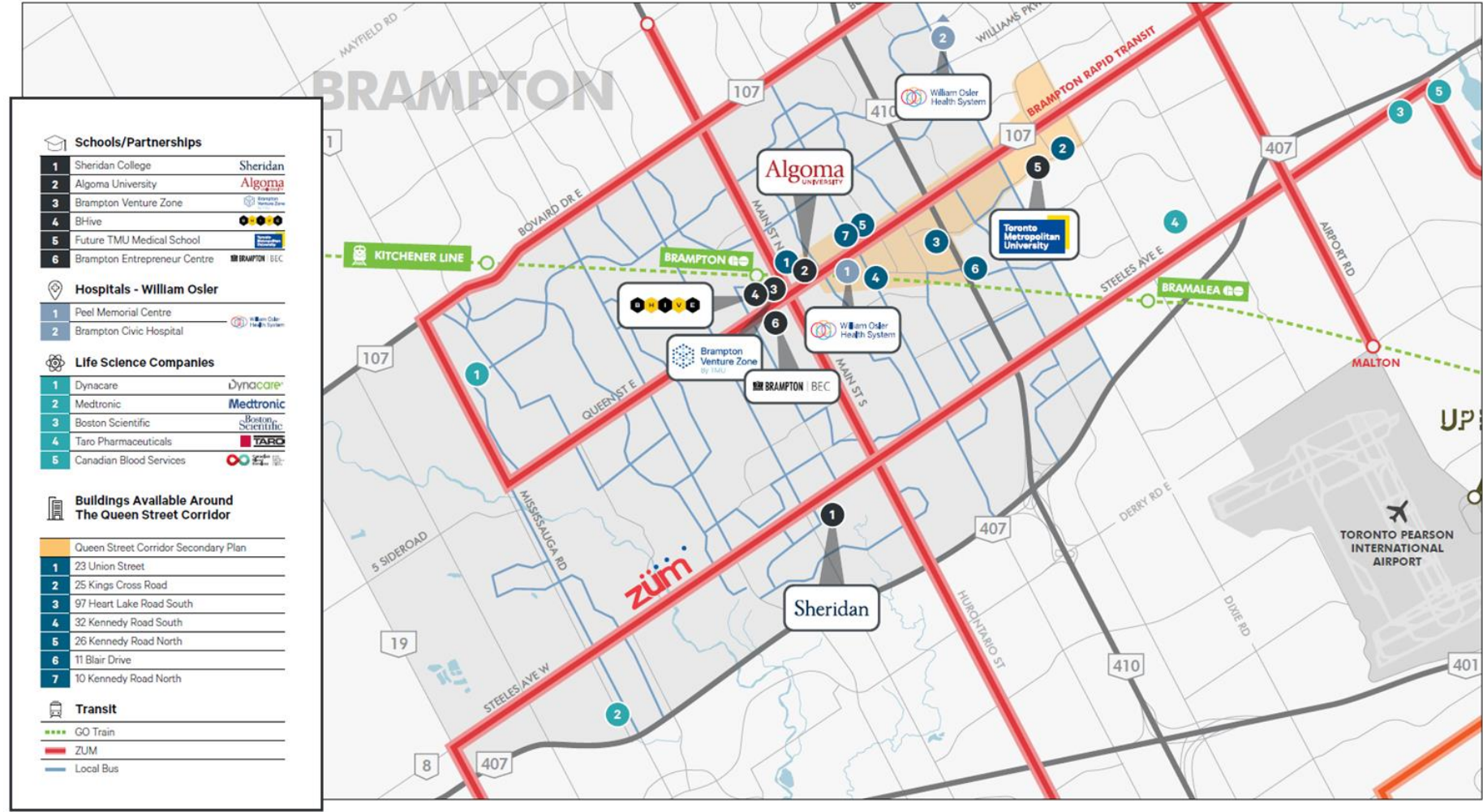
Both **Algoma University and Sheridan College are expanding** science programming and could be a piece of the puzzle

Fostering a research partnership between academia and WOH will develop IP and new companies. Ensuring local **academic institutions develop talent** to support both healthcare research and large-local industry needs, will grow the existing employment base in Brampton.

Real Estate Analysis - Location Intelligence



After extensive stakeholder engagement, the sentiment was clear as to the corridor of innovation and opportunity for lab assets to support sector growth.



“The proximity to universities, hospitals, and transit hubs (like GO Transit and the upcoming LRT) should play a key role in determining the location for a life sciences development”

5. Brampton has a Number of Logical Development Sites

The clustering of research significantly impacts the proclivity for innovation and Brampton's foundational building blocks are the gravitational pull for future laboratory assets, **making the Queen St corridor between downtown and Bramalea Civic Centre the key area of interest.**



Downtown possesses the “B-Ecosystem” in the Innovation District, including the BEC, BVZ and B-Hive, as well as the presence of **Algoma University and their continued expansion** into health sciences



The **land on Queen Street directly in front of Peel Memorial Hospital and William Osler's research operations** presents a great opportunity to have clinical services at your doorstep



The **TMU Medical School at Bramalea Civic Centre** presents an opportunity for ideation to turn into IP if innovation is part of the programming

All three areas present strengths from an ecosystem building standpoint, but possess development hurdles that would need to be overcome for a project to advance.

What a Successful Outcome Looks Like

Two phases of development are required in a long term vision:

Phase 1 should be a multi-tenanted facility which brings academic and healthcare research together and will give organic IP and early stage companies a place to germinate

Phase 2 would be a larger facility where companies can expand when they've outgrown the phase 1 facility

“An integrated partnership between institutional researchers and industry, working together to achieve the impossible. So, whether it be cures, drugs or medical devices, improve the health of the Brampton community through partnership, through collaboration, through an integrated approach, rather than everybody working in their own buildings with their own interests.”

Phase 1- Stacking Plan



Preliminary Recommendations

Overview

Our recommendations are clustered into 3 broad buckets:

Funding

- 1) Work with supporters at Queen's Park to ensure that Phase II of Ontario's Life Sciences Strategy is flexible enough to accommodate the engineering and "dry labs" the Medtech sector needs - not just the "wet labs" required by biopharma start-ups.
- 2) Identify existing and new opportunities to access funding from FedDev, based on the agency's previous investments in life sciences.

Partnerships and Programs

- 3) Develop an integrated marketing platform that highlights the Brampton ecosystem - and clearly communicates how to access its key institutions, assets and initiatives.
- 4) Collaborate with Brampton's anchor institutions - including WOH, TMU, Algoma, and Sheridan - to foster the growth of early-stage companies by providing support with pre-clinical validation, clinical trials, access to animal facilities, mentorship, and regulatory consultation.

Infrastructure

- 5) Work with anchor institutions to determine their ability to integrate their future programming into a new facility that includes incubation space with the necessary physical traits and suite of services including partnerships for the start-up community to accelerate their commercialization process.
- 6) Encourage institutional labs and research requirements to come together in a collaborative, multitenant facility along the Queen Street Corridor. CBRE recommends the vacant land in front of Peel Memorial Hospital or downtown Brampton for any new build site, or, if possible, within the TMU Medical School if there is excess space that has yet to be programmed.

Thank you.

MedTech Task Force

All meetings commence at 4:00 p.m. and will be hybrid (virtual and in-person) in the Council Chambers – 4 the Floor, City Hall
(Location and format of the meeting will be noted on the agenda)

Meeting Dates
April 24, 2025
November 13, 2025

Members: If you are unable to attend a meeting, please contact Tammi Jackson, Legislative Coordinator, via email at tammi.jackson@brampton.ca at your earliest possible convenience.