

# OPTONIQUE

## EPIC delegation to Canada

Overview of Québec's  
photonics ecosystem

# OPTONIQUE:

## Québec's Photonics Cluster

Fostering competitiveness and growth, Optonique aims to :

- **Connect**
- **Mobilize**
- **Represent**

all actors of Quebec's photonics sector

- Founded in 2017
- Funding from both public & private sector
- Members include companies of all sizes and all parts of the value chain, along with research & innovation institutions and public partners
- Strategic focus :



**Commercialization**



**Innovation**



**Advocacy**



**Employability**

# A Snapshot of Québec's Photonics Industry



## 220+ business

Very small (1-10): 41%

Small (10-100): 40%

Medium & large (100+): 19%



**Contribution of ~\$3B  
to Québec's GDP**



**92% of businesses export  
outside of Québec**



**22,000+ jobs  
in Québec**

# Main sectors served by the industry

**1. LIFE & HEALTH SCIENCES**

Medical laboratory, laser surgery, radiotherapy, etc.



**2. ADVANCED MANUFACTURING**

Automation, robotics, inspection & 4.0 Industry



**3. AERONAUTICS & AEROSPACE**



**4. TESTS, MONITORING AND METROLOGY**



**5. DEFENSE & SECURITY**



Also significant:

Telecommunications



Environment & Clean Energy



# SME providers to address supply chain requirements

**TeraXion**



& more

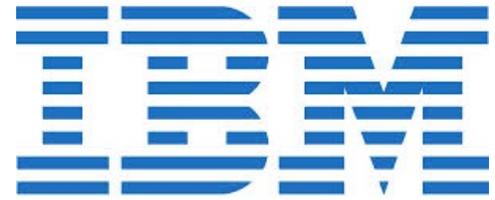
With additional innovation partners to facilitate technology adoption by supporting design, fabrication and testing

**OPTTECH**

**INO**



## Strong presence of mature players



IBM



LASER  
COMPONENTS®



EXFO



THORLABS



THALES



TELEDYNE  
DALSA



ciena®



EXCELITAS  
TECHNOLOGIES®

# The 3 innovation poles



## QUÉBEC CITY

- **More than 5,000 jobs** in photonics
- **Top tier research & innovation institutions** : COPL, INO
- **Major photonics companies**: EXFO, ABB, Ciena



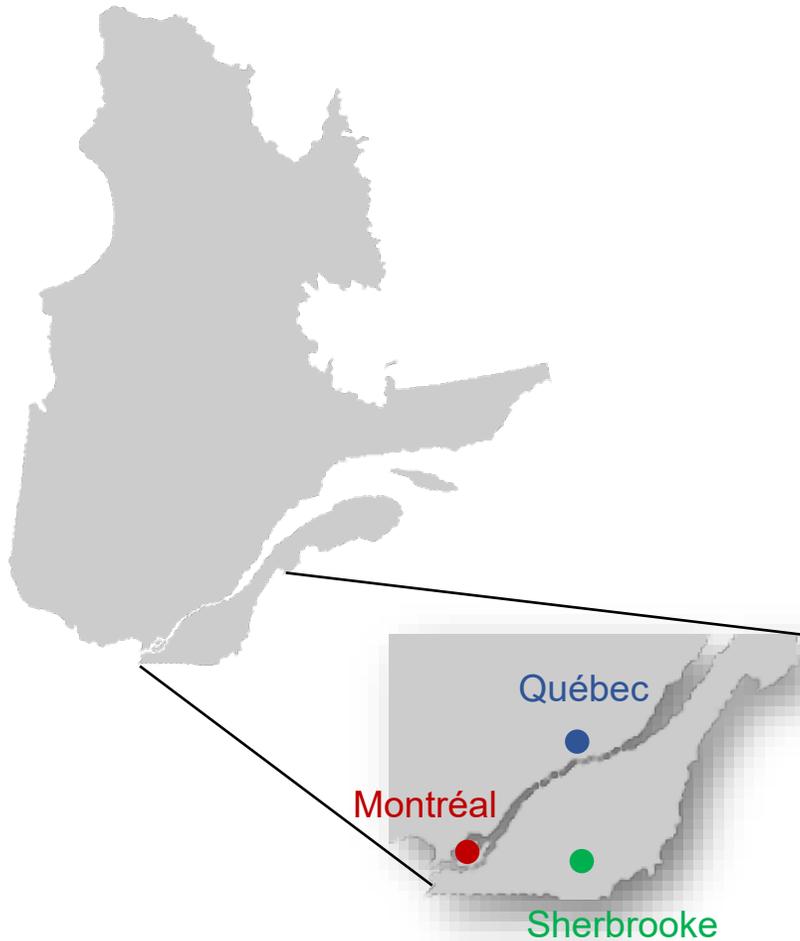
## MONTRÉAL

- **More than 12,000 jobs** in photonics
- **4 universities** with photonics research activities
- World leader in **AI development**
- **Major photonics companies** : Excelitas, Thorlabs, IBM, Laser Components, & more



## SHERBROOKE

- Strong **quantum** technology development
- **Sherbrooke University**



# A vibrant photonics research ecosystem

Over 140 researchers and 1,200 graduate and postgraduate researchers supported via strategic research clusters



# OPTONIQUE

**Local Expertise.  
Global Impact.**

Madison Rilling  
*Executive Director*

[mrilling@optonique.ca](mailto:mrilling@optonique.ca)



Jean-Christophe Gauthier  
*Commercialisation & Industry  
promotion Director*

[jcgauthier@optonique.ca](mailto:jcgauthier@optonique.ca)



Québec 



Développement  
économique Canada  
pour les régions du Québec

Canada Economic  
Development  
for Québec Regions

VILLE DE  
QUÉBEC 