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QUANTUM
TECHNOLOGY
CANADA

JUNE 20-22, 2023 | MONTREAL

Canada's Quantum Computing Event

Network: IQT
Password: CANADA

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INTRIQ ⟩ Connecting Quebec's Quantum Ecosystem

Established in 2008, INTRIQ is Quebec's Transdisciplinary Institute for Quantum Information

Photo: UdeS, Karine Couillard

INTRIQ is the research community of computer scientists, physicists and engineers invested in quantum information. INTRIQ trains the next quantum generation, educates early adopters and supports an emerging industry

Fièrement propulsé par les FRQ

Fonds de recherche Nature et technologies Québec

POLYTECHNIQUE MONTRÉAL

Université de Montréal

McGill

UdS Université de Sherbrooke

intriq.org

EDT time	DAY 1	TUESDAY, JUNE 20, 2023
8:00 am - 9:00 am	**Registration and Continental Breakfast**
9:00 am	**Welcome** Speakers: **Nicolas Godbout** - Director of Engineering Physics at Polytechnique Montréal Director of the Transdisciplinary Institute for Quantum Information (INTRIQ), Co-Founder of Castor Optics **Olivier Gagnon-Gordillo** - Lead, Québec Quantique
9:05 am	**Address from the Minister of Innovation, Science and Industry** Speaker: **The Honourable François-Philippe Champagne**
9:10 am	**Presentation of Québec's Approach to Innovation** Speaker: **Yves Sicard** - VP Zones et réseaux d'innovation – Investissement Québec
9:15 am	**Presentation of Québec's Quantum Strategy** Speaker: **Marco Blouin** - General Director of Science and Partnerships Ministry of Economy, Innovation and Energy (MEIE), Government of Québec
9:30 am	**National Strategy and Federal Initiatives** Speakers: **Michael Rosenblatt** - Director, Federal Science and Technology Policy Directorate National Quantum Strategy (NQS) Secretariat in Innovation, Science and Economic Development Canada (ISED) **Geneviève Tanguay** - Vice-President of Research, National Research Council of Canada (NRC) **Charles Lespérance** - Partner, Deep Tech Fund, BDC Capital **Simon Labrecque** - Director General, Regional Operations, Canada Economic Development for Quebec Regions (CED) **Jeff Salvail** - Policy Analyst - Quantum and Emerging S&T Policy, R&D Science Policy Integration
10:45 am	**Talk 1: Overview of Canadian Ecosystem** Speaker: **Michele Mosca** - CEO and Co-founder, evolutionQ Inc.
11:00 am	**Panel 1: How to Leverage Federal Funding and Programs from the National Strategy** Moderator: **May Siksik** - Chief Executive Officer, The Canadian Innovation Network Speakers: **Marco Blouin** - General Director of Science and Partnerships Ministry of Economy, Innovation and Energy (MEIE), Government of Québec **Louise Turner** - CEO, Quantum Algorithm Institute **Jutta Rohrschach** - Executive Director, Innovation System Integration Branch, Ministry of Technology and Innovation Government of Alberta **Nick Werstiuk**, CEO – Quantum Valley Ideas Lab
12:00 pm	**Lunch Break in the Exhibit Hall**

EDT time	DAY 1	TUESDAY, JUNE 20, 2023 *continued*
1:30 pm	**Panel 2: Quantum Hubs in Canada** Moderator: **Olivier Gagnon-Gordillo** - Lead, Québec Quantique Speakers: **Louise Turner** - CEO, Quantum Algorithms Institute **Megan Lee** - Managing Director, Quantum City, University of Calgary **Richard St-Pierre** - Executive Director, DistriQ, Quantum Innovation Zone **Siobhan Stables** - Managing Director, Institute for Quantum Computing, University of Waterloo
2:15 pm	**Panel 3: Talent Development** Moderator: **Matthew Posner** - Director Workforce & Photonics Education, Optonique Speakers: **Olivier Landon-Cardinal** - Lecturer, Ecole de Technologie Superieure (ETS) **Marie-Eve Boulanger** - Senior Advisor, Mitacs **Pierre Kennepohl** - Associate Dean for Innovation and Strategic Partnerships, University of Calgary Faculty of Science **Sarah Blanchette** - Executive Director of the Bachelor, Quantum Information Sciences, Université de Sherbrooke
3:00 pm	**Coffee Break**
3:30 pm	**Panel 4: Quantum Tech Adoption** Moderator: **Brian Lenahan** - Founder and Chair, Quantum Strategy Institute Speakers: **Andrew Fursman** - CEO and Co-founder, 1QBit **Gael Humbert** - Head of Business Development and Strategy, PINQ2 **Jake Malliaros** - Senior Venture Manager, Quantum Stream Lead, Creative Destruction Lab **Gordon Harling** - President and CEO, CMC Microsystems
4:30 pm	**Cocktails**: Courtesy of DistriQ
6:30 pm	**INTRIQ Dinner**

SPECIAL NETWORKING EVENTS

Please join us for

Tuesday, June 20

Cocktails: 4:30
Courtesy of

DistriQ
QUANTUM INNOVATION ZONE

INTRIQ Dinner
6:30pm

|↑NTR↓Q⟩

Wednesday, June 21

Welcome Reception
5:40 - 6:30pm
Courtesy of

ROBIC 1892 |↑NTR↓Q⟩

Materialize Error-corrected
Quantum Computing

EDT time	DAY 2	WEDNESDAY, JUNE 21, 2023
8:00 am - 9:00 am	**Registration and Continental Breakfast**
9:00 am	**Opening of Conference** Speaker: **Kees Eijkel** - Business Development Director, QuTech, Delft University of Technology
9:10 am - 11:30 am	**Session 1: Quantum Computers: QPUs, Software and Full-Stacks**
9:10 am	**Session Keynote: Welcome to A New Paradigm in Quantum Computing** Speaker: **Julien Camirand Lemyre**, President and CTO, Nord Quantique
9:30 am	**Talk 1.1: Quantum Computers: Emerging Architectures and Materials** Speaker: **Bob Sutor** - Chief Quantum Advocate, Infleqtion
9:50 am	**Talk 1.2: D-Wave: Quantum Computing and Optimization** Speaker: **Andrew King** - Director of Performance Research, D-Wave
10:10 am	**Panel 1.1: Full-stack computers and CPUs** Moderator: **Lawrence Gasman** - President, IQT Research Speakers: **Raphael de Thoury** - CEO Canada, PASQAL **Rafal Janik** - Chief Operating Officer, Xanadu **Alireza Yazdi** - Founder and CEO, Anyon Systems **John Levy** - Co-founder and CEO, SEEQC
10:50 am	**Panel 1.2: Software** Moderator: **Christopher Bishop** - Chief Reinvention Officer, Improvising Careers Speakers: **Arman Zaribafiyan** - Founder and CEO, Good Chemistry **Mark Jackson** - Quantum Evangelist, Quantinuum **Amanda Chew** - Director of Product, Horizon Quantum Computing **Sébastien Delorme** - Head of Product, infinityQ Technology Inc.
11:15 am	**Talk 1.3: Classical-Quantum Multi-cloud Workflows: Challenges and Solutions** Speaker: **Oktay Goktas** - CEO, Agnostiq
11:30 am - 12:40 pm	**Lunch Break and Networking**
12:40 pm - 3:25 pm	**Session 2: Quantum Cryptography, Post-Quantum Cryptography and National Security**
12:40 pm	**Special Keynote: Quantum Cryptography: From its Humble Origins to its Glorious Future** Speaker: **Gilles Brassard** - Scientific Director, INTRIQ
1:05 pm	**Talk 2.1: The Evolution and Future of PQC Standards** Speaker: **Dustin Moody** - Mathematician, Computer Security Division, National Institute of Standards and Technology (NIST)
1:20 pm	**Panel 2.1: The Future of PQC: Standards and Applications** Moderator: **Francis Bellido** - CEO, Quantum eMotion Inc. Speakers: **Michael Redding** - CTO, Quantropi **Atsushi Yamada** - CEO, ISARA Corporation **Sarah McCarthy** - Cryptographic Strategist, evolutionQ
1:45 pm	**Panel 2.2: Application of Quantum Security for Telecommunications** Moderator: **Rainer Iraschko** - Principal Technology Architect, TELUS Speakers: **Michael Redding** - CTO, Quantropi **Skip Norton** - VP Business Development, Quintessence Labs

EDT time	DAY 2	WEDNESDAY, JUNE 21, 2023 *continued*
2:10 pm	**Talk 2.2: QRNGs and Quantum Cybersecurity in Healthcare** Speaker: **Francis Bellido** - CEO, Quantum eMotion Inc.
2:25 pm	**Talk 2.3: Quantum Cybersecurity and Hardware Security Modules** Speaker: **Bruno Couillard** - CEO & CTO, Crypto4A Technologies Inc.
2:40 pm	**Talk 2.4: In-Q-Tel Quantum Investment Perspective** Speaker: **Yan Zheng** - Vice President, Technology, In-Q-Tel
2:55 pm	**Talk 2.5: How the National Security Community Can Advance the Development of Quantum Tech** Speaker: **Jonah Force Hill** - Managing Director, The LightBridge Group
3:10 pm	**Talk 2.6: Quantum, IoT and Mobile Communications** Speaker: **Thomas Stengel** - Senior Director of QRNG Business Development, ID Quantique
3:25 pm	**Afternoon Break and Networking**
3:45 pm	**Special Panel: AI and Quantum: Their Mutual Benefits** Moderator: **Olivier Landon-Cardinal** - Lecturer, Ecole de Technologie Superieure (ETS) Speakers: **Yoshua Bengio** - Professor, Department of Computer Science and Operations Research - Université de Montreal, Founder and Scientific Director of Mila and Scientific Director of IVADO **Gilles Brassard** - Scientific Director, INTRIQ **Nathan Wiebe** - Specialist, Quantum Machine Learning, University of Toronto
4:25 pm - 5:35 pm	**Session 3: Quantum Communications: Towards a Quantum Internet**
4:25 pm	**Panel 3.1: Paths to Repeaters** Moderator: **Lawrence Gasman** - President, IQT Research Speakers: **Evan Meyer-Scott** - Director of Quantum Processors, Photonic, Inc. **Mehdi Namazi** - Co-Founder and Chief Science Officer, Qunnect Inc.
4:50 pm	**Talk 3.1: Telecom Equipment Providers and Quantum Networks** Speaker: **Robert Keys** - Senior Director of Optical Transmission R&D, Ciena
5:05 pm	**Panel 3.2: From Testbeds to the Quantum Internet** Moderator: **Lawrence Gasman** - President, IQT Research Speakers: **François Borrelli** - CEO, Numana **Yoann Jestin** - CEO and co-founder, Ki3 Photonics
5:35 pm	**Wrap-up of the Day**
5:40 pm - 6:30 pm	**Welcome Reception**: Courtesy of Robic & INTRIQ

EDT time	DAY 3	THURSDAY, JUNE 22, 2023
8:00 am - 9:00 am	**Registration and Continental Breakfast**
9:00 am	**Opening of Conference** Speaker: **Kees Eijkel** - Business Development Director, QuTech, Delft University of Technology
9:10 am	**Special Talk: Quantum & Generative AI - The Industry Perspective** Speaker: **Brian Lenahan** - Founder and Chair, Quantum Strategy Institute
9:30 am - 11:45 am	**Session 4: Sensors: The Next Hot Area for Quantum Technology**
9:30 am	**Talk 4.1: Quantum Sensing at SandboxAQ** Speaker: **Nadia Carlsten** - VP of Product, SandboxAQ
9:50 am	**Panel 4.1: Technology Trends in Quantum Sensing** Moderator: **Lilian Childress** - Associate Professor of Physics, McGill University, Member, INTRIQ Speakers: **William Clark** - Vice President of Quantum Development, Infleqtion **Jérôme Bourassa** - Chief Executive Officer, Qubic Technologies **Julie Lefebvre** - Director General of the Security and Disruptive Technologies, Advanced Electronics and Photonics, and Nanotechnologies Research Centers, National Research Council of Canada (NRC)
10:25 am	**Talk 4.3: Quantum Sensors in Mining** Speaker: **David Roy-Guay** - Co-Founder, CEO, SBQuantum
10:45 am	**Talk 4.4: Optical Quantum Sensing for Defense Applications** Speaker: **Étienne De Montigny** - Defense Scientist, Defense Research and Development Canada, Department of National Defense
11:05 am	**Special Panel: QKD Markets** Moderator: **Brian Lenahan** - Founder and Chair, Quantum Strategy Institute Speakers: **Bruno Huttner** - Director of Strategic Quantum Initiatives, and Quantum Key Distribution Expert, ID Quantique **Ramy Shelbaya** - Co-founder and CEO, Quantum Dice **Katanya Kuntz** - QEYSSat Science Team Coordinator, IQC, University of Waterloo Co-Founder & CEO, Qubo Consulting Corp.
11:45 am - 12:55 pm	**Lunch Break and Networking**
12:55 pm - 2:15 pm	**Session 5: Quantum Systems Manufacturing**
12:55 pm	**Panel 5.1: Current Achievements in Quantum Manufacturing To Date** Moderator: **Christopher Bishop** - Chief Reinvention Officer, Improvising Careers Speakers: **Justin Huneault** - Cryogenics Team Lead, Anyon Systems **Philippe Babin** - CEO, AEPONYX **Fokko de Vries** - Roadmap Leader Quantum Networks, QBlox
1:30 pm	**Panel 5.2: Materials and Processing Challenges for Quantum Systems Manufacturing** Moderator: **Christopher Bishop** - Chief Reinvention Officer, Improvising Careers Speakers: **Félix Beaudoin** - Director, Quantum Technology, Nanoacademic Technologies Inc. **Mathieu Maisonneuve** - Scientific Advisor, INO
1:55 pm	**Talk 5.1: Quantum in Canada** Speaker: **Alexandre Choquette** - Quantum Partnerships Canada Lead, IBM Quantum
2:15 pm - 2:45 pm	**Afternoon Break and Networking**

EDT time	DAY 3	THURSDAY, JUNE 22, 2023 *continued*
2:45 PM - 4:00 PM	**Session 6: Workforce and Educational Challenges for the Quantum Technology Era**
2:45 PM	**Panel 6.1: Training for Work in the Quantum Technology Industry** Moderator: **Maninder Kaur** - Program Manager, QURECA Speakers: **Matthew Posner** - Director Workforce & Photonics Education, Optonique **Marie-Eve Boulanger** - Senior Advisor, Mitacs **Udson Mendes** - Team Leader, Quantum Computing, CMC Microsystems **Daniel Oblak** - Assistant Professor, University of Calgary, Director, CREATE Training Program
3:30 PM	**Talk 6.1: Quantum Education at the University Level** Speaker: **Thomas Searles** - Associate Professor, Electrical and Computer Engineering, University of Illinois Chicago
3:45 PM	**Talk 6.2: Research Support for Humanities in Social Sciences in the Quantum Era** Speaker: **Lydia Vermeyden** - Director, Research Services Development, Calcul Québec
4:00 PM	**Conference Ends**

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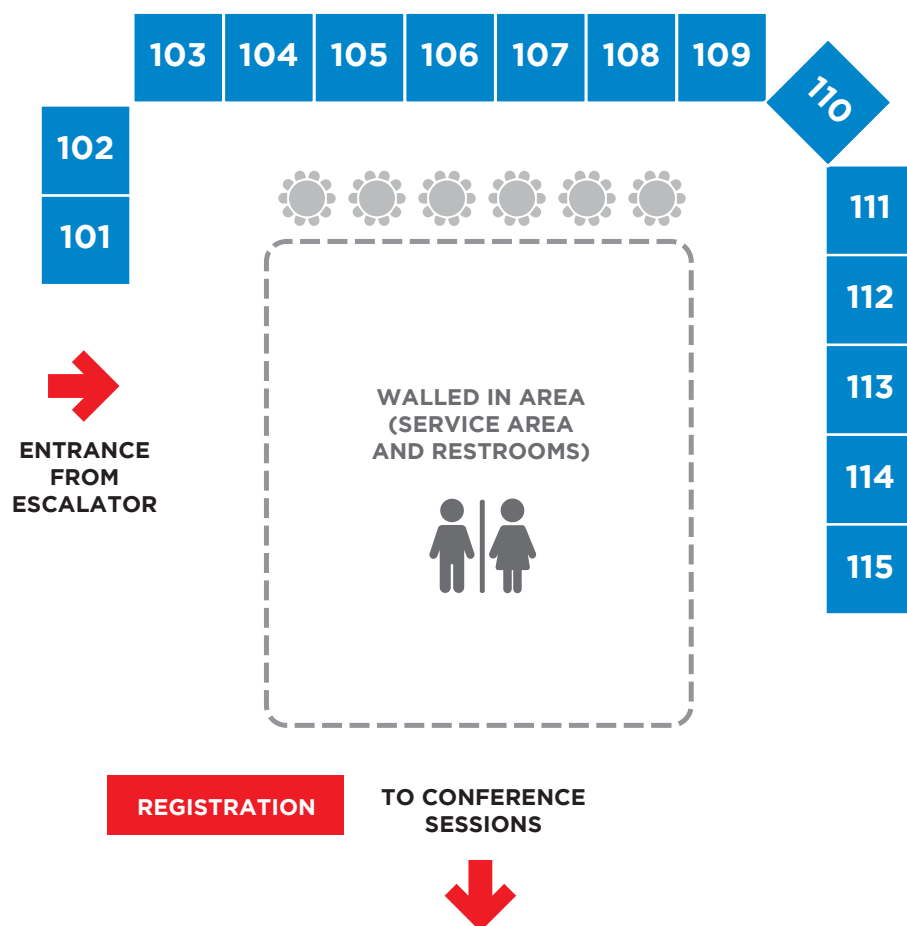
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QTIR Annual Industry Report 2022:

The first annual and leading resource on quantum computing & quantum technology industry

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EXPO HALL FLOOR PLAN

ENTRANCE FROM ESCALATOR

WALLED IN AREA (SERVICE AREA AND RESTROOMS)

REGISTRATION

TO CONFERENCE SESSIONS

EXHIBIT HALL HOURS

Tuesday, June 20, 2023
12:00 pm - 6:00 pm

Wednesday, June 21, 2023
11:30 am - 6:30 pm
(Networking reception in the exhibit area, 5:30 pm - 6:30 pm)

Thursday, June 22, 2023
11:30 am - 3:00 pm

WIFI ACCESS
Network: IQT
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EXHIBITOR	Booth
Aliro Quantum	101
Calcul Quebec and Anyon Systems	108
Classiq	105
CMC Microsystems	109
IQT Research/ IQT Events	113
Keysight Technologies	111
Nord Quantique	110
Numana	103

EXHIBITOR	Booth
OptoElectronic Components	112
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The development of full-scale fault-tolerant quantum computing is hindered by one major issue: noise on the chip that produces errors at the qubit level. Solving this issue does not simply call for larger and larger processors. The best way forward is to redesign processors from the ground up with low-error qubits.

At Nord Quantique we develop superconducting circuits that can mitigate errors on every individual qubit. It provides a faster pathway to fault-tolerant quantum computing.

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Anyon Systems is a leading provider of integrated superconducting universal quantum computers. We have developed unique technologies involving the full vertical hardware stack of a quantum computer, from quantum processing units (QPUs) to quantum control electronics and ultra-low temperature cryogenics systems which host QPUs. Anyon Systems has sold and delivered near-term intermediate-scale quantum computers to early adopters and our technology was developed such that we can rapidly scale-up and deliver industry-leading performance.

Calcul Québec
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Calcul Québec's team of highly qualified professionals keeps the research community competitive on a national and international scale by providing access to cutting-edge digital infrastructures and ensuring that researchers have the necessary skills to use them.
We share our supercomputers —and soon, a superconducting quantum computer— with thousands of researchers. They power research in physics, astronomy, genomics, health and even some more surprising fields such as music and literature.

Institut transdisciplinaire d'information quantique - INTRIQ
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Marc Leclair
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The Transdisciplinary Institute of Quantum Information (INTRIQ) is a strategic network funded by the Fonds de Recherche du Québec – Nature et Technologie, grouping researchers in Quantum Information from 4 universities in the Canadian province of Québec (Université de Montréal, Polytechnique Montréal, Université de Sherbrooke, McGill University) and Cégep de Granby as well as researchers from University of Chicago, Université d'Ottawa, National Research Council of Canada and Thales. INTRIQ brings together more than 30 computer scientists, theoretical physicists, experimental physicists, engineers and over 150 graduate students and postdocs.

IQT Research/ IQT Events
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Inside Quantum Technology - events, research/consulting, daily news, podcasts. We are an international organization that covers all aspects of quantum computing through our daily news, events worldwide, research/consulting and podcasts.

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Aliro Quantum, The Quantum Networking Company™, offers AliroNet™ to emulate, pilot, and deploy entanglement-based secure networks that are capable of running a wide variety of applications from secure communications to clustered quantum computing and distributed quantum sensing. Aliro, spun out of NarangLab at Harvard University, includes world-class experts in quantum and classical networking and is leading quantum network development by offering the foundational technologies needed for organizations around the world to build scalable and powerful distributed entanglement-based secure systems. AliroNet™ users include utility companies, telecommunications providers, public sector organizations, enterprises, and researchers who are simulating, designing, piloting, orchestrating, and building entanglement-based secure networks.

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Classiq is the leading quantum software company, taking quantum software to a higher level. Built for organizations that want to accelerate their quantum computing programs, Classiq's patented software automatically converts high-level functional models into optimized quantum circuits for most quantum computers and cloud providers. With Classiq, customers can develop software that was once thought impossible, bypassing the intricacies of quantum assembly-level coding. At Classiq, we don't just envision the quantum future, we're actively building it.

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CMC Microsystems, a not-for-profit organization, is working to lower these barriers and accelerate innovative R&D in quantum technologies – both in quantum computing, and the development of quantum hardware for novel quantum sensors, quantum computer and quantum communication components.

EvolutionQ
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evolutionQ was co-founded by leading cryptography experts, Dr. Michele Mosca, Dr. Norbert Lütkenhaus, and Dr. David Jao. With offices in Kitchener-Waterloo, Canada, and Aachen, Germany, evolutionQ delivers robust software that is revolutionizing the field of quantum-safe cryptography. Their pioneering Quantum Delivery Network (QDN) technology ensures quantum-safe key management deployments are secure, seamless, and resilient.

Keysight Technologies
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Numana is setting-up a network of quantum communication test beds for industry and researchers so that they can devise quantum communication use cases, test quantum communication equipments as well as more secure communication protocols.

OptoElectronic Components
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OptoElectronic Components offers Photon Counting Detectors and Quantum Technologies. Products include: Silicon and InGaAs Single Photon Counting Detectors from Micro-Photon Devices, Super Conducting Nanowires from Quantum Opus including a complete portable and automated system that is ideal for Quantum Network testbeds, Single Photon Sources from Quandela, Photonic Processor from QuiX Quantum, and Picosecond Timing Electronics from Picoquant.

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Yemliha Bilal Kalyoncu
Lead Application Scientist
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Qblox operates at the frontier of the quantum revolution for academic and industrial labs worldwide. Since spinning out QuTech in 2019, the Qblox team has fundamentally reimagined the quantum control stack to combine fast scalable feedback, unlevelled noise performance and low-latency arbitrary control flows, with the ability to scale to hundreds of qubits. Qblox technology offers technology in qubit control and readout, quantum networks and high-performance computers.

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Québec Quantique
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Québec Quantique brings together Quebec players in the field of quantum science and technology and is working to ensure that Quebec is recognized as one of the world's major developers of quantum technologies and that these technologies, developed here as elsewhere, are adopted by major industrial sectors in Quebec by 2030.

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Australian-based QuintessenceLabs is a world-leading quantum cybersecurity company recognized for its advanced quantum-safe data protection capabilities extending from quantum-enabled key generation, crypto-agile encryption key and policy management to ultra-secure quantum key distribution, helping global enterprises and government agencies build a quantum-resilient security posture.

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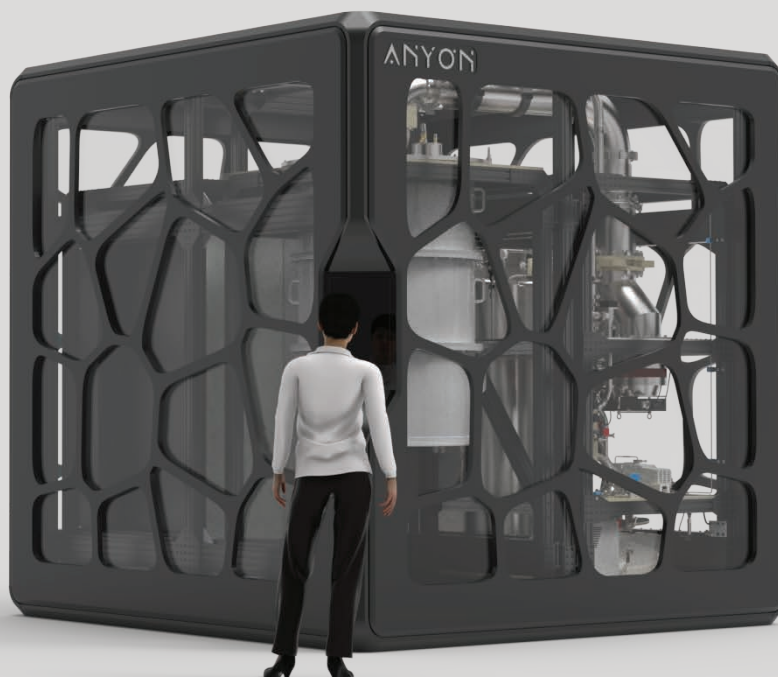
QUÉBEC QUANTIQUE

Enabling
the Québec Quantum
Ecosystem

quebec-quantique.ca

Québec has its own
quantum strategy for
the advancement of the sector

**QUÉBEC IS IN
AN EXCELLENT
POSITION**
to benefit from the
wealth creation of
the quantum sector.

**Innovation zone dedicated
to the sector:**
$435M investment

DistriQ
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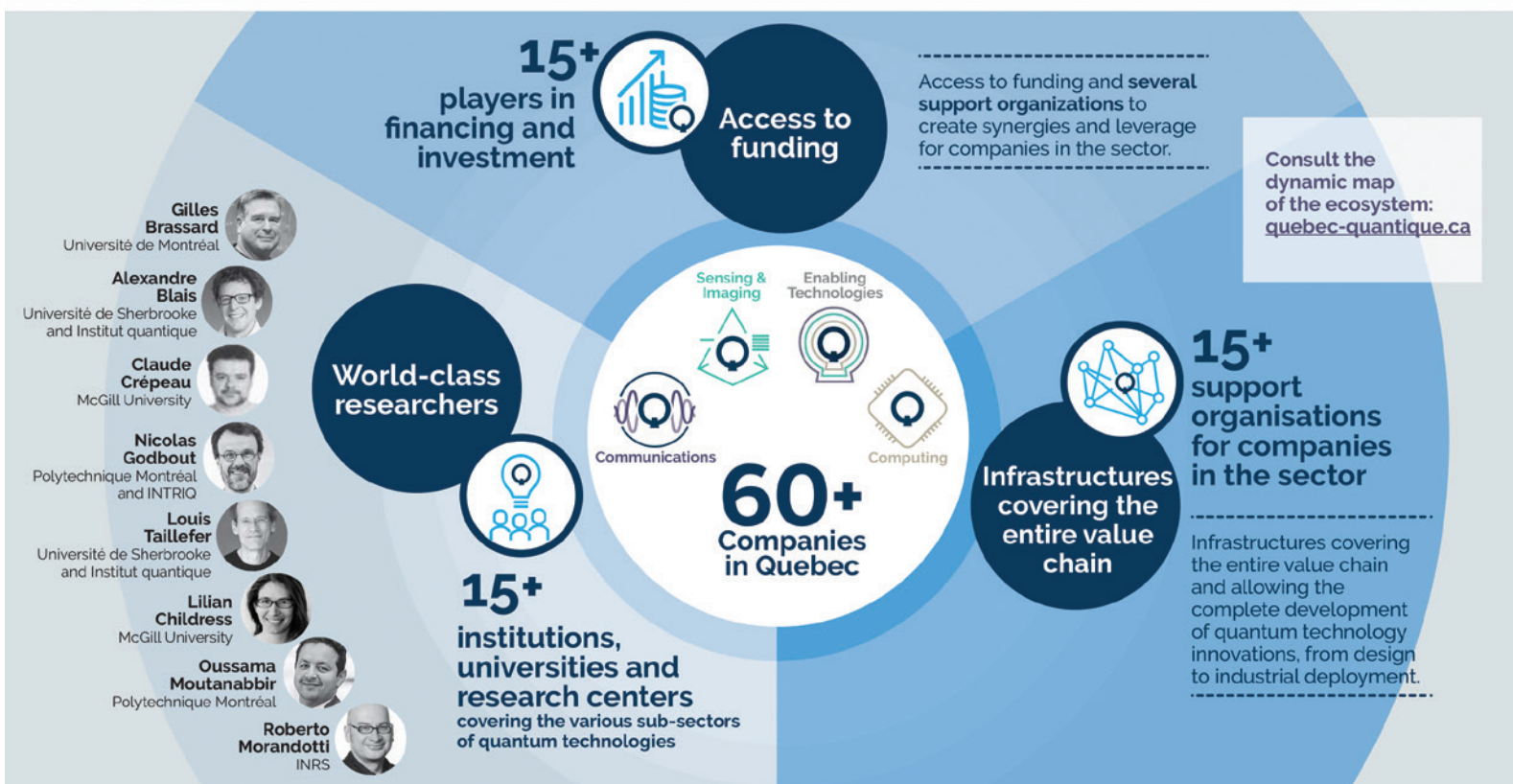
THE QUANTUM SECTOR

QUÉBEC
- -
$200M over 8 years
2019 - 2027

CANADA
- -
$360M over 7 years
2021 - 2028

**PROJECTIONS
FOR QUÉBEC
IN 2040**
- - - - - - - - - - - - - -
$27B in revenue
45,000 jobs

Québec has all the right ingredients
to launch and grow a quantum technology company

15+
players in
financing and
investment

**Access to
funding**

Access to funding and **several
support organizations** to
create synergies and leverage
for companies in the sector.

**Consult the
dynamic map
of the ecosystem:**
quebec-quantique.ca

**Gilles
Brassard**
Université de Montréal

**Alexandre
Blais**
Université de Sherbrooke
and Institut quantique

**Claude
Crépeau**
McGill University

**Nicolas
Godbout**
Polytechnique Montréal
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the entire value chain
and allowing the
complete development
of quantum technology
innovations, from design
to industrial deployment.

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programs,** with campuses
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each year.

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45%
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