

THE INTERNATIONAL YEAR OF QUANTUM

GLOBAL INDUSTRY CHALLENGE

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INTERNATIONAL YEAR OF
Quantum Science
and Technology

 quantum
world congress





CHALLENGE OVERVIEW

GLOBAL INDUSTRY CHALLENGE

The Challenge is a competition for innovators, entrepreneurs, and industry leaders to engage in collaborative action to solve practical use cases using quantum and quantum adjacencies such as AI.





**INTERNATIONAL YEAR OF
Quantum Science
and Technology**

100 years of quantum is just the beginning...

OFFICIAL PROGRAM OF INTERNATIONAL YEAR OF QUANTUM

On June 7, 2024, the United Nations proclaimed 2025 the International Year of Quantum Science and Technology (IYQ). The year 2025 was chosen for this International Year as it recognizes 100 years since the initial development of quantum mechanics. The global industry challenge is an official International Year of Quantum program.

Learn more: <https://quantum2025.org/>

CHALLENGE FOCUS AREAS

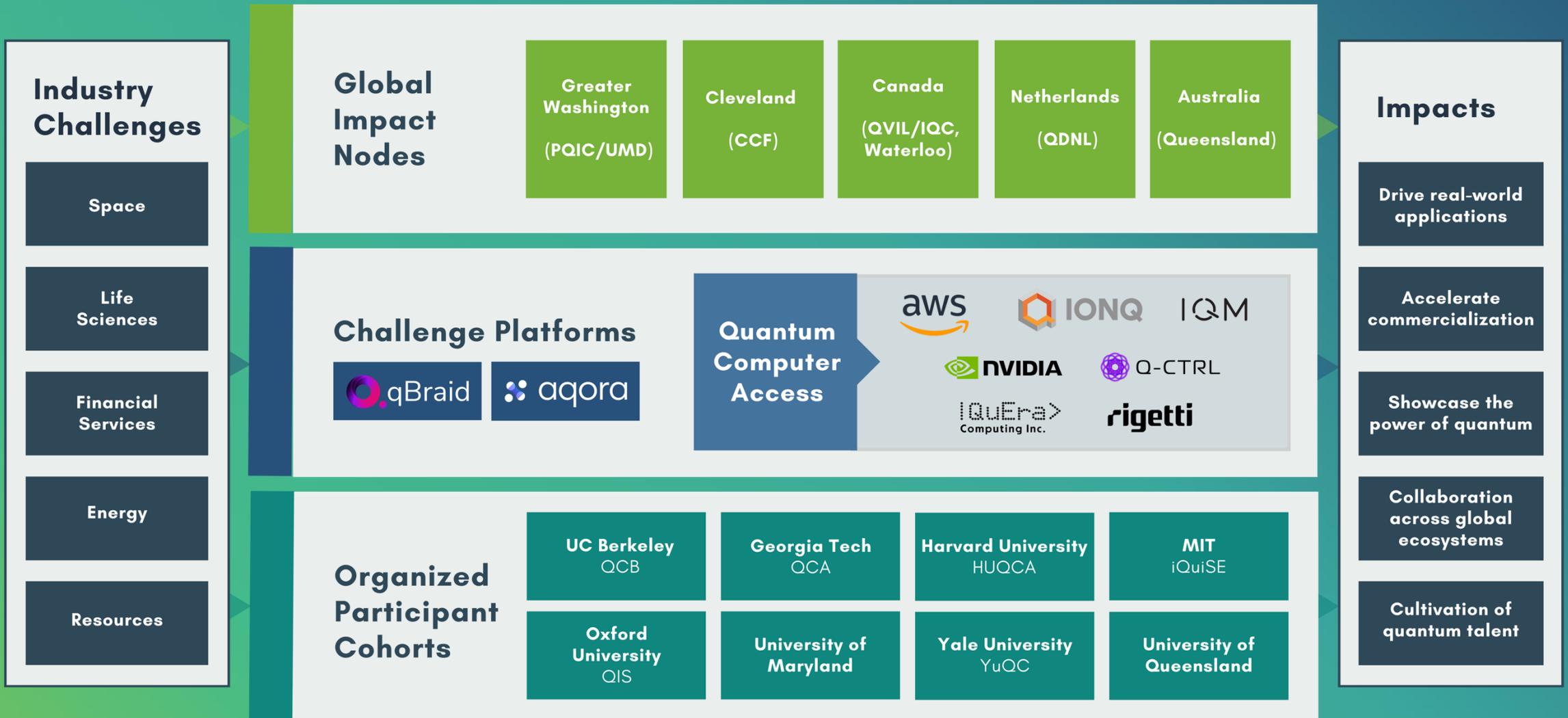
The Challenge will focus on the following primary sectors: **Consumer Products, Energy, Financial Services, Life Sciences, and Space.**

Industry sponsors will present specific challenges tied to their missions.

Example challenges could include:

- **Consumer Products:** Solving logistics and supply chain optimization problems (example: QUBO applications on D-Wave systems)
- **Energy:** Finding new materials (higher hardness, toughness, ductility, radiation/corrosion resistance or lower electrical resistivity) (example: quantum simulation of periodic systems on IBM and Quantinuum devices)
- **Financial Services:** Developing an options pricing strategy using quantum optimization (example: QAOA applications on IBM hardware)
- **Life Sciences:** Simulating protein-drug interactions (example: quantum simulations on IBM and QuEra devices)
- **Space:** Optimizing satellite constellation coverage using a neutral atom quantum computer (example: MIS problem)

GLOBAL INDUSTRY CHALLENGE FRAMEWORK



GLOBAL IMPACT NODES



REGIONAL IMPACT NODES: CHALLENGE LAUNCH EVENT, APRIL 14 [SUBJECT TO CHANGE]

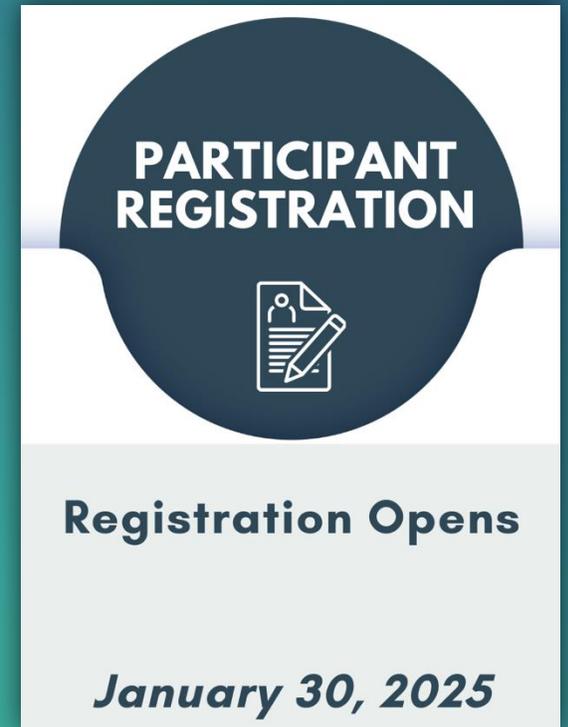
Activity	Description
Registration, Team Formation & Networking	Participants check in, receive welcome kits, and engage in light networking with coffee. Participants registered before the event in teams or individually. Participants self-organize into teams based on skillset and interest. Facilitators will guide team formation, ensuring diversity and balance of skillsets. Ice-breaking activities to help members get acquainted.
Welcome & Introduction	Opening remarks by the event host, video from CDMV & qBraid giving an introduction and overview of the Challenge. Keynote speech by an industry leader from the host, introducing the Global Industry Challenge themes and their significance for the international year of quantum.
Workshop Session 1: Industry Use Cases & Problem-Solving	In-depth session covering real-world quantum computing applications and solutions for the industry challenge areas. Teams receive video guidance on how to frame their solutions for the challenge from the challenge providers (pre-recorded video).
Break	Coffee and Networking Break
Workshop Session 2: Platform & Resource Overview	Hands-on tutorials on quantum platforms videos or Zoom calls (e.g., Qiskit, Cirq). Participants will learn the basics and key datasets, hardware usage (if applicable) and challenge guidelines facilitated by experienced mentors.
Lunch Break & Networking	Lunch on-site. Opportunity for participants to network and discuss potential project ideas. Virtual breakout rooms for online participants.
Workshop Session 3: Challenge Submission	On-site or video tutorial on the Aqora (or similar) platform, with guidelines, timelines, and judging criteria.
Closing Remarks	Event host closing remarks

PARTICIPANTS

- The Challenge is open to participants from all allied nations, ensuring broad participation and diverse collaboration.
- Through partnerships with globally renowned universities and Regional Hubs, we are recruiting participant cohorts from research, academia and industry. Participants can apply in teams and as a single participant either working solo or aligned with a team.
- The Challenge is hosted online, and participants can access the platform virtually.

VALUE PROPOSITION

- Participating teams can access multiple industry quantum platforms, computers, and simulators from leading companies.
- Participants will receive a prioritized set of industry-defined use cases and then collaborate and compete to develop viable solutions.
- Winners will be selected by a global jury and will be invited to Quantum World Congress 2025 where awards will be presented.



GLOBAL INDUSTRY CHALLENGE AT QWC

Quantum world congress 2024



1,000+ Attendees from 29 Countries



100+ Sessions
5 Tracks
9 Workshops



Key Industry Announcements



13 National Updates



2024 International Forum Participation



200+ Speakers



QUANTUM MEANS BUSINESS



Powered by The Consumer Technology Association®

GLOBAL INDUSTRY CHALLENGE: CELEBRATING THE INTERNATIONAL YEAR OF QUANTUM



QUANTUM
MEANS
BUSINESS
SPEAKER

**PAUL
CADDEN-
ZIMANSKY**

MEMBER
IVQ EXECUTIVE COMMITTEE

QUANTUM
MEANS
BUSINESS
SPEAKER

**PHILIPPE
BOUYER**

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THOMAS**

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SPEAKER

**MARSHA
MAXWELL**

HEAD OF CORPORATE RELATIONS
AMERICAN PHYSICAL SOCIETY



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MEANS
BUSINESS
SPEAKER

**NICK
WERSTIUK**

CEO
QUANTUM VALLEY IDEAS LAB

QUANTUM
MEANS
BUSINESS
SPEAKER

**KANAV
SETIA**

CEO & CO-FOUNDER
QBRAID





SAVE THE DATE
(TRUST US)

SEPTEMBER 16-18
2025
CAPITAL ONE HALL

SUBSCRIBE HERE



SEPTEMBER 16TH
THROUGH
SEPTEMBER 18TH
2025 AT
CAPITAL ONE
HALL IN
GREATER
WASHINGTON

VALUE PROPOSITION

USE CASE PROVIDERS

Submit your real-world problems that can be addressed with quantum and quantum-adjacent solutions. Providers should present well-defined challenges with supporting data sets that participants can tackle within the event's timeframe. The use cases should be relevant to the outlined industries. Providers benefit from innovative quantum solutions tailored to their needs gaining exposure to quantum solutions that could transform their business processes and technology strategies.

VALUE PROPOSITION

Engage with top quantum minds and receive innovative assistance, risk mitigation of current investments, and custom-built solutions to address your company's biggest challenges. Receive enhanced ecosystem engagement with involvement from international hosts and a pool of highly skilled participants working on the cutting edge of quantum technologies.

PLATFORM PROVIDERS

Engage by providing quantum hardware and software platforms essential to the success of the challenge. These providers offer participants access to their technologies and platforms to develop their solutions.

VALUE PROPOSITION

Showcase your quantum platform to a highly qualified audience, drive adoption, and gather feedback from users. Platform providers also benefit from media coverage and brand exposure during the event.

Empower developers and challenge teams with your quantum platform. Become a partner and showcase your technology!

REGIONAL COMPETITION NODES

Organizations or universities that host smaller, regional challenges that run in parallel to the main challenge taking place in Washington DC. As a regional host, you must be a university, innovation hub, or organization that can host local or regional competitions in parallel to the main challenge. The host is responsible for recruiting participants and organizing your event. The Challenge is hosted in Greater Washington D.C and supported by regional impact nodes including Amsterdam, London, Brisbane, Waterloo (Canada), and others.

VALUE PROPOSITION

Expand your regional quantum community by hosting a parallel event that leads to the Global Industry Challenge. Gain access to quantum expertise and connect with global talent.

SPONSORS

Sponsor the 2025 Global Industry Challenge and leave your mark on the International Year of Quantum!

Gain exposure to a global quantum technology community, align your brand with cutting-edge innovation, and network with influential industry leaders. Packages are tailored to the sponsor's needs with branding opportunities and marketing to gain visibility at a high-profile international event.

Sponsorship Packages:

- **Presenting (1 Available):** As the presenting sponsor, you are positioning your brand at the forefront of quantum innovation. This elite sponsorship offers exclusive placement through the Challenge as the primary sponsor.
- **Platinum:** As a platinum sponsor of the Challenge, your organization takes center stage and showcases your commitment to advancing quantum innovation. By choosing platinum sponsorship, you gain significant exposure globally and place your brand among leading international voices.
- **Gold:** As a gold sponsor, your organization is recognized as a vital contributor to the advancement of quantum innovation. This sponsorship level provides prominent visibility of your brand globally.
- **Silver:** As a silver sponsor, your company plays a vital role in supporting the quantum community. This level offers valuable exposure, positioning your brand alongside industry peers and signifies your organization's commitment to the quantum community.

PRESENTING SPONSOR

VALUE PROPOSITION

Sponsor the 2025 Global Industry Challenge to make your mark on the International Year of Quantum! Gain exposure to a global quantum technology community, align your brand with cutting-edge innovation, and network with influential industry leaders. Packages are tailored to the sponsor's needs with branding opportunities and marketing to gain visibility at a high-profile international event.

SPONSORSHIP PACKAGE:

Presenting Sponsor (1 Available)

- **Before Challenge Launch:** Press release, social media, and email announcing Presenting Sponsorship; Prominent website logo placement with web link-back to page of choice on your website; Ongoing logo inclusion in outgoing social and email communication
- **Challenge Launch Event:** 5-minute main stage keynote (up to 3 nodes, option to replace with video) and 1-minute video played on mainstage; Headline listing on virtual signage where available; Logo inclusion in launch event email communication and social media; Attendee email leads (opt-in).
- **The Challenge to QWC 2025 Awards:** 5-minute keynote and headline listing on virtual signage at QWC 2025 Challenge Awards session; Ongoing logo inclusion in email communication and dedicated social media post; Inclusion in post-competition press release; One judging panel member; Ongoing website logo placement on the Challenge page.

PLATINUM SPONSOR

VALUE PROPOSITION

Sponsor the 2025 Global Industry Challenge to make your mark on the International Year of Quantum! Gain exposure to a global quantum technology community, align your brand with cutting-edge innovation, and network with influential industry leaders. Packages are tailored to the sponsor's needs with branding opportunities and marketing to gain visibility at a high-profile international event.

SPONSORSHIP PACKAGE:

Platinum:

- **Before Challenge Launch:** Inclusion in the list of sponsors in pre-event advisories and press releases announcing Platinum Sponsorship; Prominent website logo placement below presenting with web link-back to page of choice on your website; Ongoing logo inclusion in outgoing social and email communication.
- **Challenge Launch Event:** 5-minute main stage keynote (up to 2 nodes, option to replace with video) on mainstage; Headline listing on virtual electronic screens where available; Logo inclusion in launch event email and social communication; Attendee email leads (opt-in).
- **The Challenge to QWC 2025 Awards:** On-stage presenter of the award and listing on virtual signage at the QWC 2025 Challenge Awards session; Inclusion in post-competition press release; One judging panel member; Ongoing logo inclusion in select email communication and dedicated social media post; Ongoing website logo placement on the Challenge page.

GOLD SPONSOR

VALUE PROPOSITION

Sponsor the 2025 Global Industry Challenge to make your mark on the International Year of Quantum! Gain exposure to a global quantum technology community, align your brand with cutting-edge innovation, and network with influential industry leaders. Packages are tailored to the sponsor's needs with branding opportunities and marketing to gain visibility at a high-profile international event.

SPONSORSHIP PACKAGE:

Gold:

- **Before Challenge Launch:** Inclusion in the list of sponsors in pre-event advisories and press releases; Website logo placement with web link-back to page of choice on your website; Ongoing logo inclusion in select outgoing social and email communication.
- **Challenge Launch Event:** Listing on electronic screens; Logo inclusion in select launch event social and email communication; Attendee email leads (opt-in) available at additional cost.
- **The Challenge to QWC 2025 Awards:** Listing on virtual signage at the QWC 2025 Challenge Awards session; Inclusion in post-competition press release; Ongoing logo inclusion in select email communication and social media; Ongoing website logo placement on the Challenge page.

SILVER SPONSOR

VALUE PROPOSITION

Sponsor the 2025 Global Industry Challenge to make your mark on the International Year of Quantum! Gain exposure to a global quantum technology community, align your brand with cutting-edge innovation, and network with influential industry leaders. Packages are tailored to the sponsor's needs with branding opportunities and marketing to gain visibility at a high-profile international event.

SPONSORSHIP PACKAGES:

Silver:

- **Before Challenge Launch:** Inclusion in the list of sponsors in pre-event advisories and press releases; Website logo placement; Ongoing logo inclusion in select outgoing social and email communication.
- **Challenge Launch Event:** Listing on electronic screens; Logo inclusion in select launch event social and email communication.
- **The Challenge to QWC 2025 Awards:** Listing on virtual signage at the QWC 2025 Challenge Awards session; Inclusion in post-competition press release; Ongoing logo inclusion in select email communication and social media; Ongoing website logo placement on the Challenge page.

SPONSORSHIP OPPORTUNITIES

Level	Investment
Presenting (1 Available)	\$50,000
Platinum	\$20,000
Gold	\$10,000
Silver	\$5,000

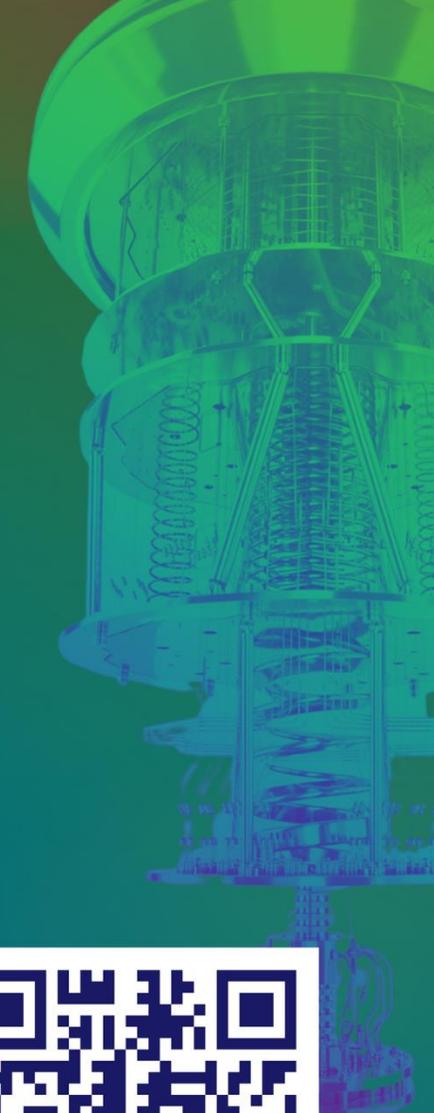
**For custom packages, please contact our sponsor team: quantum@connecteddmv.org*

MAKE YOUR MARK & JOIN US!

THE INTERNATIONAL YEAR OF QUANTUM

GLOBAL INDUSTRY CHALLENGE

EMAIL OUR TEAM OR
SCAN TO GET INVOLVED
QUANTUM@CONNECTEDDMV.ORG



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