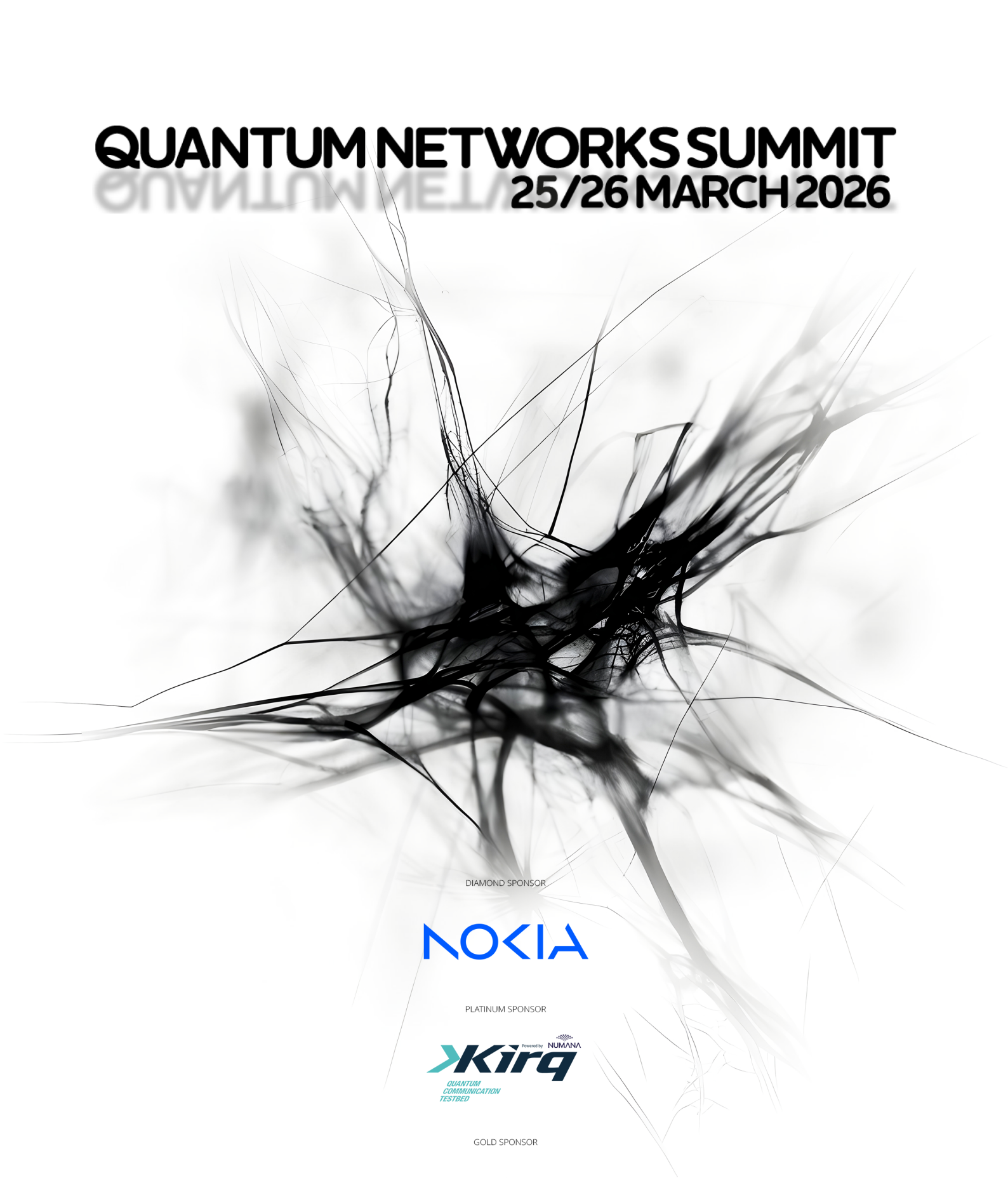
QUANTUM NETWORKS SUMMIT

25/26 MARCH 2026



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AUDITORIUM HAVANE

08.00 Registration & Welcome Coffee

MORNING SESSIONS

TUTORIAL

Chairman
Michael Baczyk, Investment Advisory, Heartcore Capital

09.00 **Entangled & Encrypted: Quantum Networking and Security Landscape**

The tutorial offers a practical introduction to the world of Quantum Networking & Quantum Security, designed specifically for network engineers beginning their quantum journey. Participants will gain basic knowledge of quantum principles and terminology, understand how quantum computing intersects with networking, and explore the implications for security in a post-quantum world.

- Core concepts of Quantum Computing & Quantum Networking
- Recent advancements in Quantum technologies
- Real-world applications of Quantum systems in networking
- Security threats posed by Quantum computers to classical cryptography
- Industry standards & guidelines for Quantum-Safe security

Rakesh Kandula, Technical Marketing Engineer, Cisco

10.15 Coffee/Exhibition/Networking

KEYNOTE ADDRESS

10.45 **Dual-track Approach to Quantum Security**

Martin Charbonneau, Head Quantum Enablement Network Infrastructure BG, Nokia

PANEL NATIONAL TESTBEDS & DEPLOYMENT STRATEGIES

11.05 **Quantum-Safe Network Infrastructure: National Testbeds and Deployment Strategies**

Reflecting how different intelligence communities as well as government agendas view PQC vs QKD.

Moderator
Michael Baczyk, Investment Advisory, Heartcore Capital

Teun van der Veen, Senior Consultant, TNO

Anna Beata Kalisz Hedegaard, CEO and co-founder, Quantum Security Defence

Farzam Toudeh-Fallah,
Director, Quantum Communications R&D, ,
Ciena

Dr Diego Lopez,
Senior Technology Expert,
Telefonica

12.00 Lunch & Coffee

AFTERNOON SESSIONS

REAL-WORLD QKD DEPLOYMENTS & CRITICAL INFRASTRUCTURE

14.00 **Next Generation Quantum Network Developments**
- QKD and PQC: how do these relate in terms of timelines and applicability?
- Next steps in EuroQCI: what will phase 2 bring?
- Concrete next generation quantum network developments: results from the labs and the road ahead (The KiQQer program)

Teun van der Veen, Senior Consultant, TNO

14.20 **QKD for IPSec/MACSec at Scale**
Turkcell has successfully pioneered the integration of Quantum Key Distribution (QKD) directly into its IP network infrastructure. This industry-first deployment demonstrates real quantum keys dynamically securing IPSec and MACSec encryption.

Huseyin Dede, IP Network Master Expert, Turkcell

14.40 **Q-Crit Deployment Learnings**
Presenting a real-world deployment of a quantum-secure communication network, leveraging point-to-point QKD over a 230 km optical fiber link along ÖBB railway infrastructure. Q-Crit demonstrates the practical feasibility of QKD integration within heterogeneous OT environments.

Sebastian Ecker, Q-Crit Project Leader, qtlabs

15.00 **Quantum Physics - Transforming Networks for Low-Power, Secure and Resilient Digital Infrastructure**
Discussing how Quantum 2.0 tools will redefine networking in three distinct ways:
- Driving Sustainability
- Unprecedented Security
- A new quantum infrastructure.

Theodore Sizer, Executive Vice President, Lab Leader, Optical System and Device Research, Nokia

15.20 **Infrastructure as Catalyst: Building a Connected Quantum Future**
Describing the Quantum Corridor in the U.S. Midwest. As the first commercial quantum-safe network in North America, it combines 40 Tbps classical capacity with multi-node quantum-safe services, enabling both QKD and post-quantum cryptography in a real-world environment.

Bruce Chesley, Ph.D. Chief Science Officer, Quantum Corridor

15.40 **Why Continuous Testing is Critical in the Shift to Post-Quantum Cryptography**
Exploring why continuous performance validation is essential during PQC migration. Drawing on real-world test results validation of both standardized and non-standardized PQC algorithms,

Owen O'Donnell, Marketing Manager, Viavi Solutions

16.00 Coffee/Exhibition/Networking

STANDARDIZATION, INTEROPERABILITY & CERTIFICATION

16.30 **Different Standardisation Strategies to Support your Quantum Journey**

Speaker, from, TNO

16.50 **Quantum Key Distribution Standardization: An Analysis of Existing Standards and Identified Gaps**
Surveying existing QKD standards and analyzing their practical applicability, providing insights on potential pathways toward comprehensive certification processes. This work addresses a critical need for QKD deployment initiatives such as EuroQCI, which aims to deploy the first certified QKD nodes by 2027 according to its current roadmap.

Mohamed Bassiouny, Quantum Risk & Cybersecurity Lab Lead, QuRISK

17.10 **Atlas: A Unique Multi-Vendor Environment for Quantum-Safe Interoperability Testing**
Introducing Atlas, a groundbreaking initiative that establishes a unique multi-vendor environment for quantum-safe interoperability testing. This collaborative effort, led by a sponsor and hosted on the Kirq Quantum Communications Testbed at Numana's Montreal hub, brings together industry leaders, academia, and research institutions to foster innovation and drive the adoption of quantum-safe technologies.

Francois Borrelli, Strategic Advisor, Numana

17.30 **Navigating Quantum-Safe Landscape**
As a trusted advisor, KPMG Canada presents an insightful analysis of the quantum-safe network landscape from a Canadian perspective, emphasizing effective risk management strategies to mitigate potential threats posed by quantum computing. Exploring possible answers to the question, "How can an organization adopt a Defense-in-Depth approach to mitigate quantum threats and ensure crypto-agility and crypto-resilience, ultimately protecting its assets and reputation?"

Mårten Waldmann Lauridsen, Manager, NewTech, KPMG

17.50 **Role of Crosstalk in Multiplexed Quantum Passive Optical Networks**
- Quantum passive optical network (QPON) based on CV quantum communication
- Multiplexing in CV-QPON to allow to scale up the network and establish QKD with more users and to in- crease the overall secret key throughput
- CV-QPON with two-mode multiplexing
- Reducing the number of users so that a stronger crosstalk can be tolerated

Authors : Ivan Derkach, Olena Kovalenko, Vladyslav Usenko, Palacky University

Vladyslav C. Usenko, Ph.D., Senior researcher, Department of Optics, Palacky University

18.10 End of Day One

Thursday 26 March 2026 / Conference **Day Two**

AUDITORIUM HAVANE

08.00 Registration & Welcome Coffee

MORNING SESSIONS

PANEL

09.00 **From Ground to Orbit - Pioneering the Quantum Safe Future**
Discussing the integration of space based Quantum Key Distribution (QKD) into quantum safe optical and IP networks, ensuring encryption keys can be securely exchanged across continents.

Moderator
Anna Beata Kalisz Hedegaard,
CEO and co-founder,
Quantum Security DefenceQSECDEF

Andrew Csizmar,
Senior Director Global Space Strategy,
Honeywell Aerospace

Prasanna Sundaram,
Director, Optical and Fibre Network Engineering,
Colt Technology Services

Martin Charbonneau,
Head of Quantum-Safe Networks,
Nokia

10.00 Coffee/Exhibition/Networking

QUANTUM NETWORKING & SECURITY

10.30 **IP Quantum QKD Integrated Communication & Encryption Solution**
To address the decryption threats posed by quantum computing to traditional encryption services, proposing a cost-effective, easily deployable, and highly secure solution for establishing quantum QKD (Quantum Key Distribution) key distribution.

Li Zhi,
Chief Solution Architect, Router Domain,
Huawei

10.50 **Quantum Network Digital Twin**
Presenting the works of QNDT (Quantum Network Digital Twin) a joint research project with IMDEA and UC3M.
Showing how this QNDT is used to expand the experimental capabilities for QKD control and key distribution, and how it evolves now to address general entanglement distribution networks, in support of experimenting addressing and routing for the future Quantum Internet.

Dr Diego Lopez,
Senior Technology Expert,
Telefonica

11.10 **Quantum Networking: Building Tomorrow's Infrastructure, Today**
Demonstrating how a strategic approach in quantum networking technology serves as a foundational fabric for quantum data centers, paving the way toward scalable quantum computing capable of solving complex problems beyond classical systems.

Rakesh Kandula, Technical Marketing Engineer, Cisco

11.30 **Towards Establishing Ultra Long-Haul Quantum-Secured Optical Channels**
Establishing long-distance quantum-secured communication channels is one of the most challenging areas of research in developing quantum-secured networks at global scale. Presenting vision and research activities in addressing these challenges towards deploying such channels for quantum-securing ultra long-haul optical links in operational environments.

Farzam Toudeh-Fallah,
Director, Quantum Communications R&D, ,
Ciena

11.50 **Symmetric Key Cryptography & QKD**
Exploring new ways to combine QKD with its analogue quantum domain derived keys, with the required entropy and strength, with areas of symmetric key cryptography encompassing quantum-safe network encryption combined with industry accepted and deployed automated key distribution interfaces. With this approach we can efficiently scale and automate quantum-safe network outcomes.

Hooman Bidgoli,
Senior IP Product Line Manager, Nokia

12.10 **How QKD Provides Immediate Cyber-Security Posture Upgrade vs the Current Thinking**
Traditional thinking within regulatory bodies and standards institutes, led by the NIST, has been to follow a path of cyber-security posture assessment, then PQC adoption and then QKD adoption for «Defense in depth». Discussing how modern day QKD solutions, that are network scalable, coupled with an innovative thinking on which adoption path to follow, can best increase organizations' real world readiness for quantum threats.

Nir Bar Lev, CEO, HEQA Security

12.30 End of the Conference / Lunch

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25/26 MARCH 2026

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Attendees Registration

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4 | **SASE & ZTNA FORUM** INCLUDING ACCESS TO THE EXHIBITION **24** | 25 | 26 **MARCH 2026**	Early Fees	530 €
5 | **EXHIBITION ONLY** INCLUDING ACCESS TO THE INTEROP EVENT **24 | 25 | 26 MARCH 2026**		290 €

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