TelQuanT

# The software infrastructure for the Internet in the Quantum era



**Current encryption will not survive quantum attacks. TelQuant secures Networks with Quantum Physics, where it matters most**

***September 2026, Paris***

# Our mission: unlock the potential of QKD

**TelQuant ambition & mission :** leverage its QDF (Quantum Data Forwarding) software infrastructure to protect data in accordance with the theory of perfect secrecy, thanks to a virtually unlimited supply of quantum keys generated by QKD quantum modules



« France ANSSI : *All critical infrastructures to have quantum-resistant protection in 2030 »*

« USA Executive order, June 2026: *All federal and military agencies to have quantum-resistant protection in 2030 »*



*"Quantum key distribution (QKD) network deployments in Europe are currently at the pilot stage, limited to just a few nodes at best.*
*Meanwhile, the Chinese have a large-scale network."* Quantonation, June 2026

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- Created Feb 2026. An Airbus D&S spinoff, by former quantum senior experts (EuroQCI, FranceQCI). Deeptech focus on networks, to build quantum-safe software solutions
- Focus: Quantum Communications, software solutions to increase radically bandwith available on quantum networks (QKD). Ultimate goal: one quantum key per packet and a full stack platform to monitor multinode secure networks. First set of patents registered.
- Key challenge: increase QKD throughput massively, up to Gbits/s rates, while maintening absolute randomness of keys. Cooperation with QKD manufacturers
- Other relevant information: Telquant is supported by Airbus D&S, SQYCub, BPIFrance and Systematic

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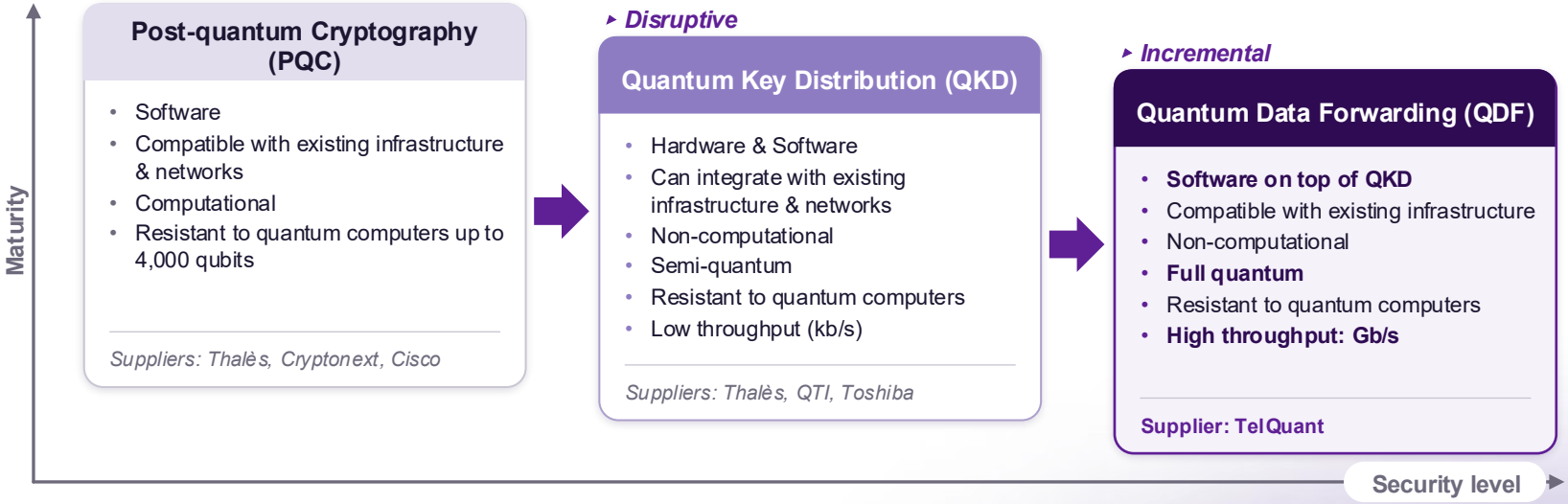
- Links to 6G / the SNS JU: participation to the quantum chapter for smart public networks
- Telquant is part of Systematic, Deeptech labelled by BPIFrance. Cooperation with Telecom Paris Sud networks department (Prof. D Zeghlache)

- European project experience: participation to the QSTN consortium, led by Airbus D&S to build a quantum safe multinode european tactical network. Budget: €14M. Participants: Thalès, Rheinmetall, Leonardo, Telefonica, TIM, QTI, Terra Quantum, Merqury + universities

- Relevant section of the 2027 SNS JU Work Programme that are of interest to Telquant : **HORIZON-JU-SNS-2026-STREAM-C (RIA) for quantum-safe network infrastructure**

- Contact : bernard.ochs@telquant.net

# Solutions for protection against quantum computers & AI




| | PQC & current crypto | | |
|---|---|---|---|
| **Key exchange** | Computational | **Quantum-based** | **Quantum-based** |
| **Data encryption** | Computational | Computational | **Quantum-based** |

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# Thank You.

Securing telecommunications with quantum physics.

Let's discuss how TelQuant can protect your infrastructure.

https://telquant.net

TelQuant is supported by:

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