



| A FUTURE PROOF SOLUTION AGAINST ML, AI AND QUANTUM COMPUTERS

Quantum Key Distribution (QKD)



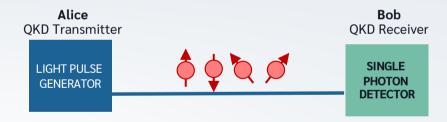
® LUXQUANTA TECHNOLOGIES



| TECHNOLOGY OVERVIEW

Comparing Continuous Variable (CV-QKD) and Discrete Variable (DV-QKD)

TRADITIONAL SOLUTION Discrete-**V**ariable QKD (DV-QKD)



The key is encoded in the **photons**, so the receiver uses **single-photon detection**

NEW SOLUTION<u>C</u>ontinuous-<u>V</u>ariable QKD (CV-QKD)



The key is encoded in the <u>signal</u>, so the receiver uses **coherent detection**

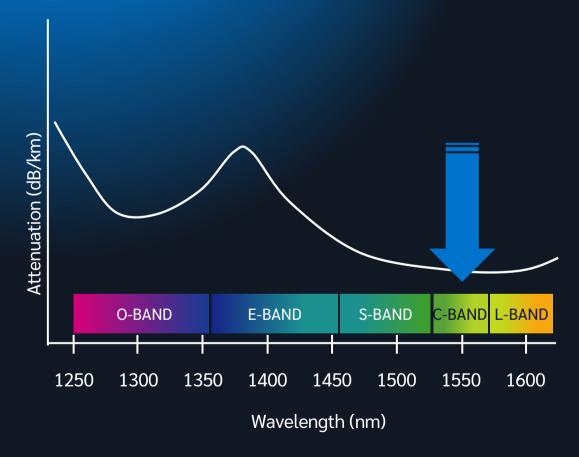


| WHY CV-QKD IS SO DISRUPTIVE

Ease of deployment



- QKD signals transmitted in the same optical fibre (and band) as data
- Potential to deliver zero-touch integration





| WHY CV-QKD IS SO DISRUPTIVE

Reliability



- Mature components
- Robust against temperature changes
- High performance for intra-city networks

"Reliability with wide temperature operating ranges (-5 °C to 50 °C) are essential for Quantum Networking Equipment"

Verizon
OPTICA industry conference, Apr 2023



Source: DataCentreKnowledge, 2024



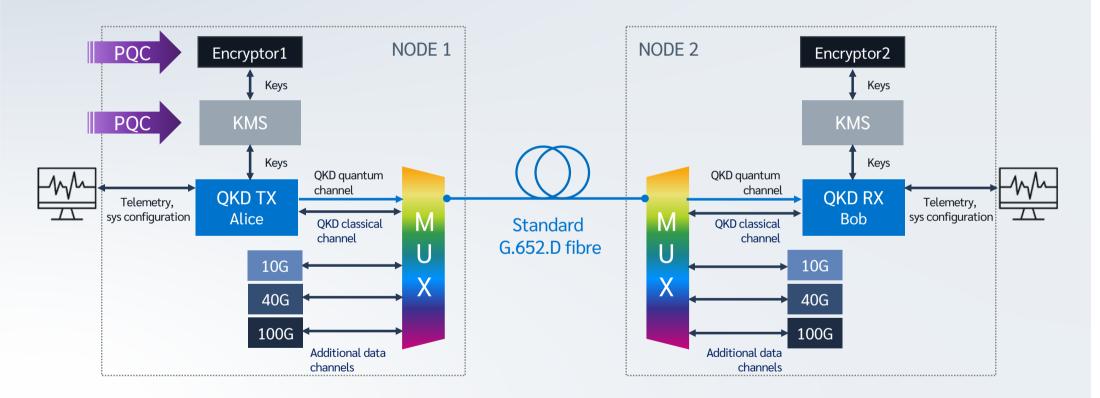
Source: Lancesoft, 2024





| ARCHITECTURE LAYOUT WITH A DWDM SCHEME

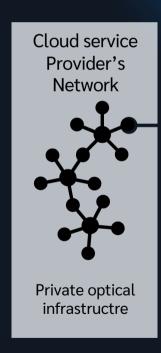
NOVA LQ® in action

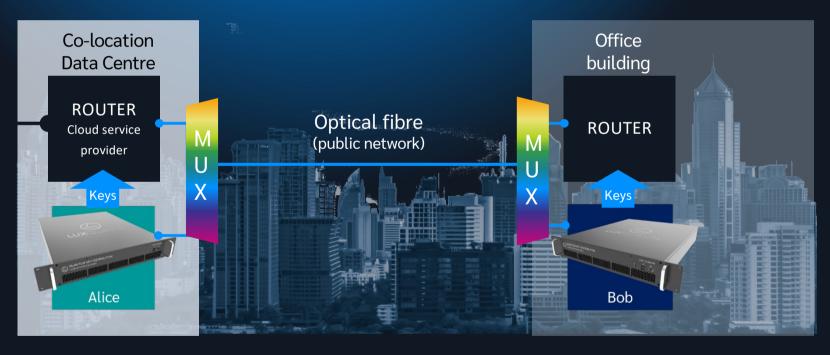




| INTEROPERABILITY OF NOVA LQ® WITH AWS

Securing the optical fibre link into the cloud







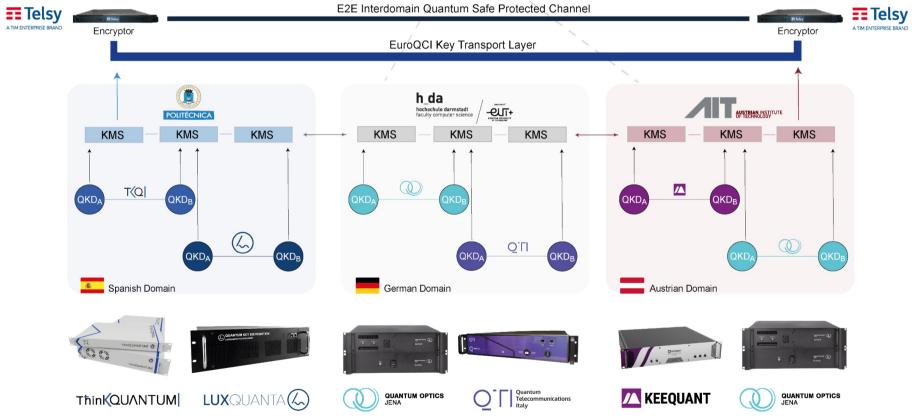
















THE TIME IS NOW

Your leading partner for migration to quantum-safe cryptography

PRODUCT READY



TECHNOLOGY PROVEN







TRAILBLAZING INNOVATOR













