QKD - is it worth it?

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Context

- Quantum Computing breaking asymmetric encryption (Shor's algorithm)

- Why bother now? As qubits are far away? (store information decrypt later)

Context (2)

- QKD = Quantum Key Distribution (EuroQCI)

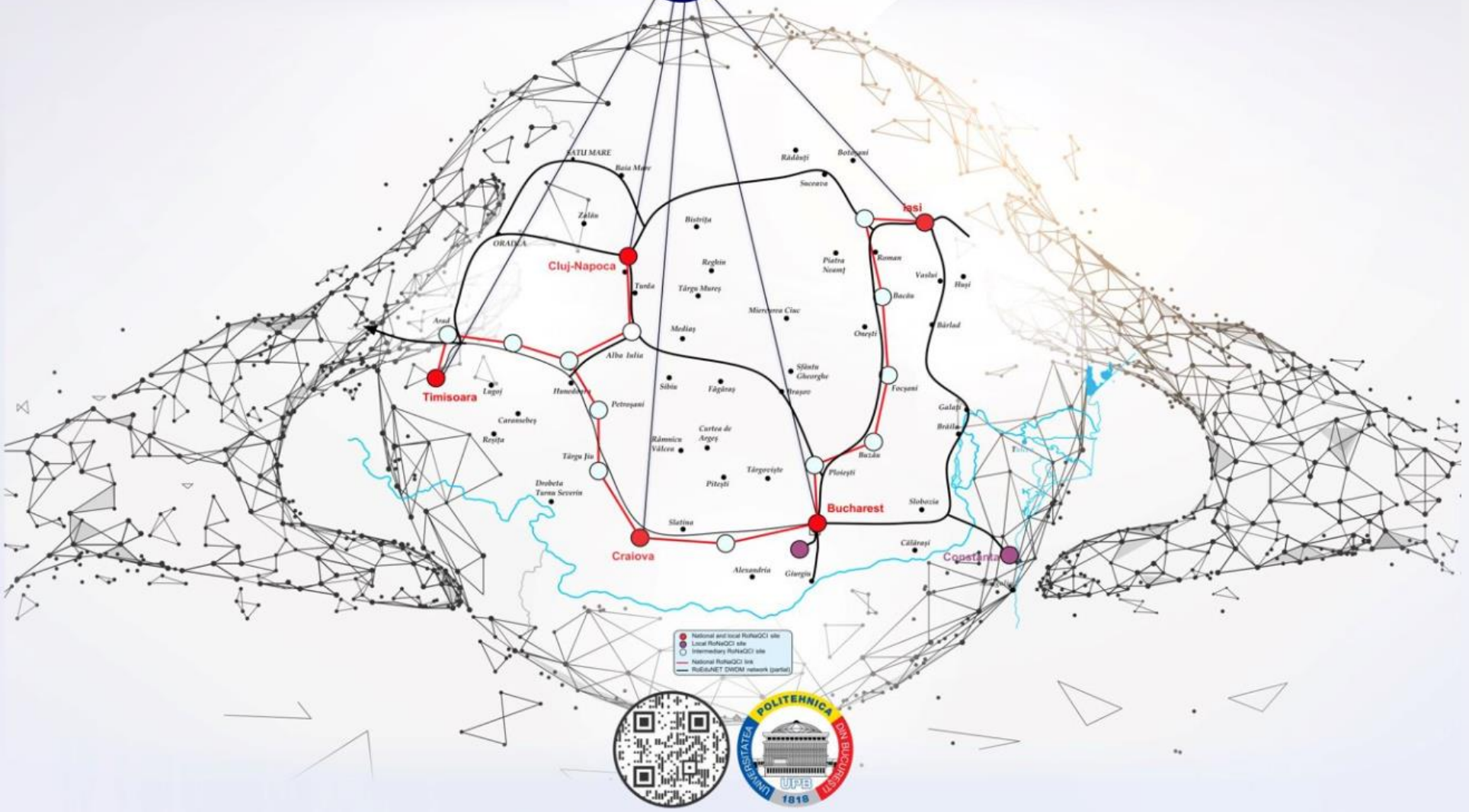
- Quantum-Resistant Cryptographic Algorithms (NIST)

QKD - is it worth?

- QKD = Quantum Key Distribution
  - +: Send encryption keys from one end to another using quantum mechanics properties
  - -: Cannot amplify the quantum channel, integration with classical communication, high costs

Romanian National
Quantum Communication Infrastructure

ronaqci



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