



Towards a Quantum Internet

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New Physics, New Technologies

Bridges



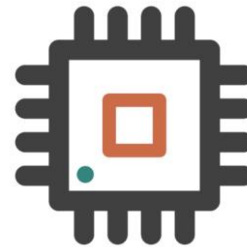
Steam engines



Radio/electric power



Electronics

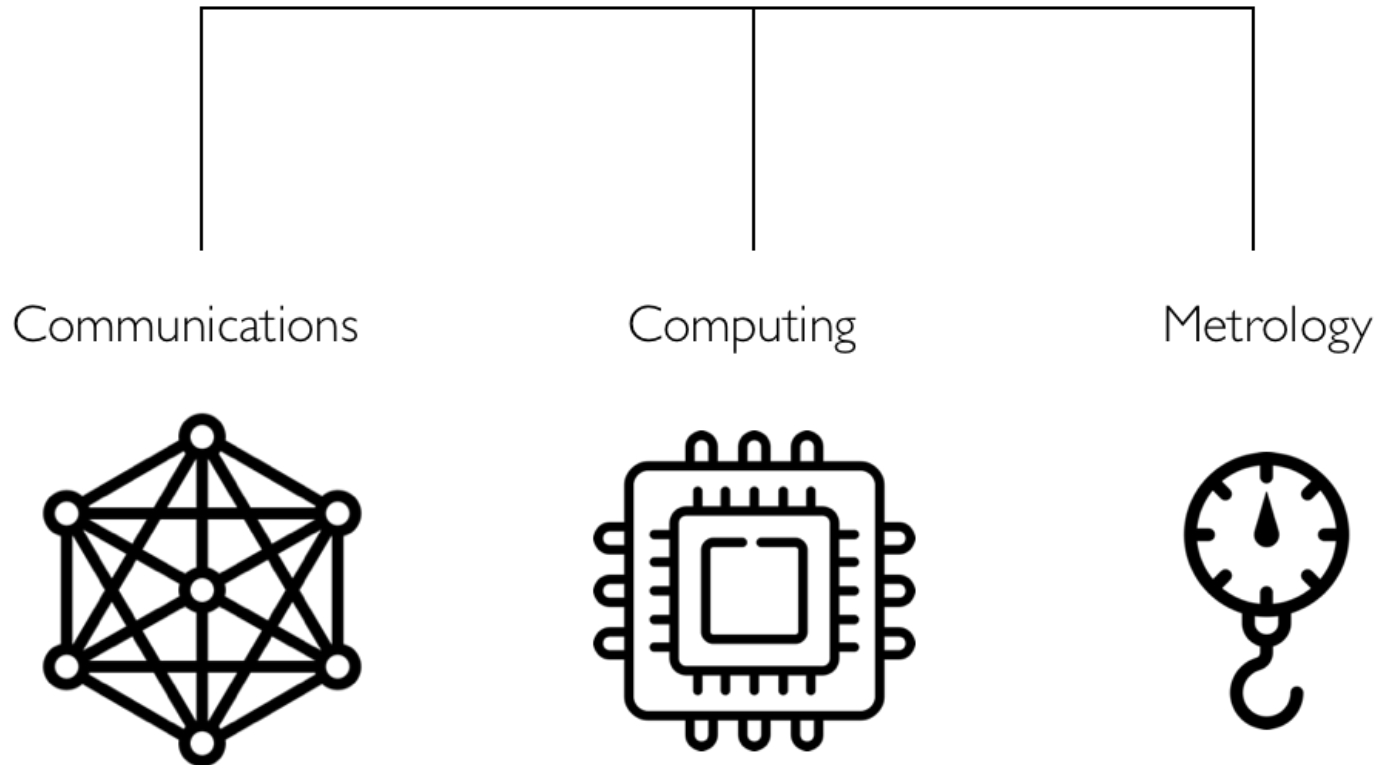


Quantum Technology



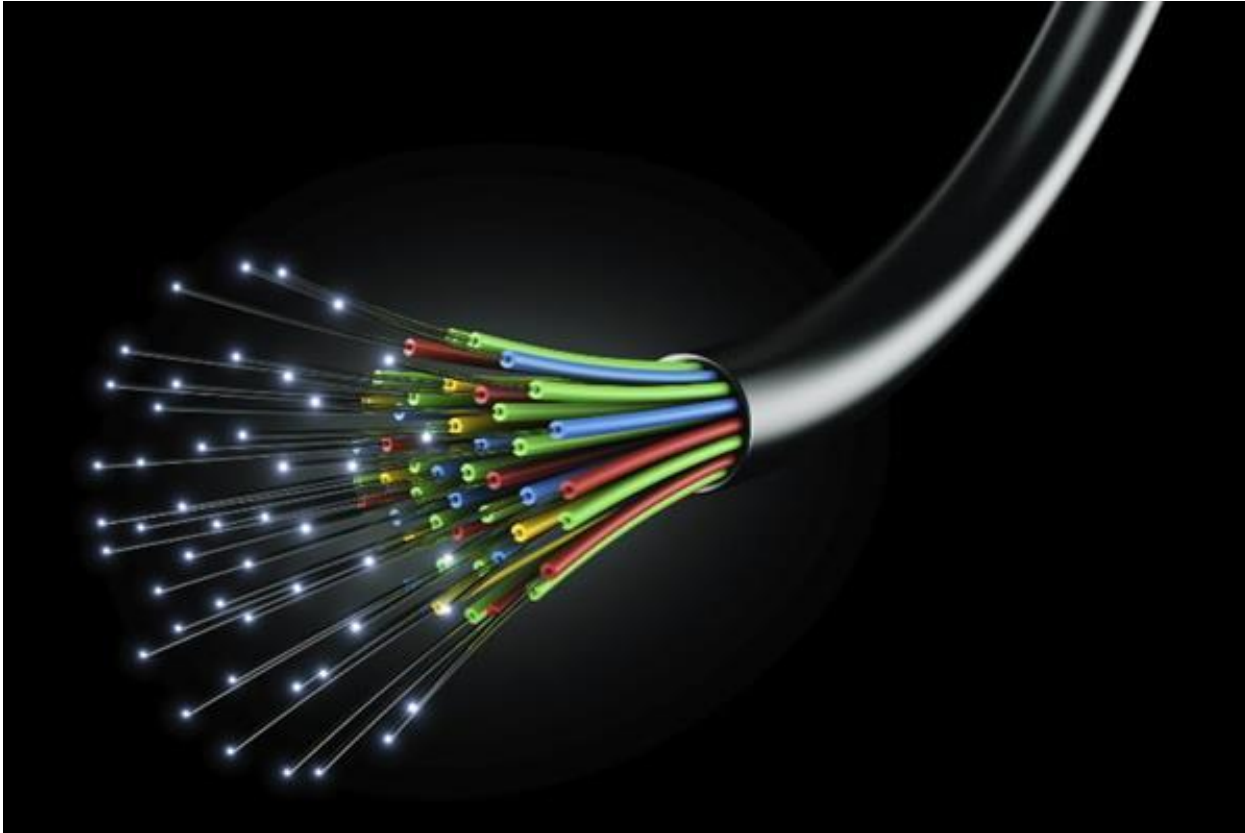
The Domains

Quantum Technologies



Manipulation of the Quantum Bit – Qubit.

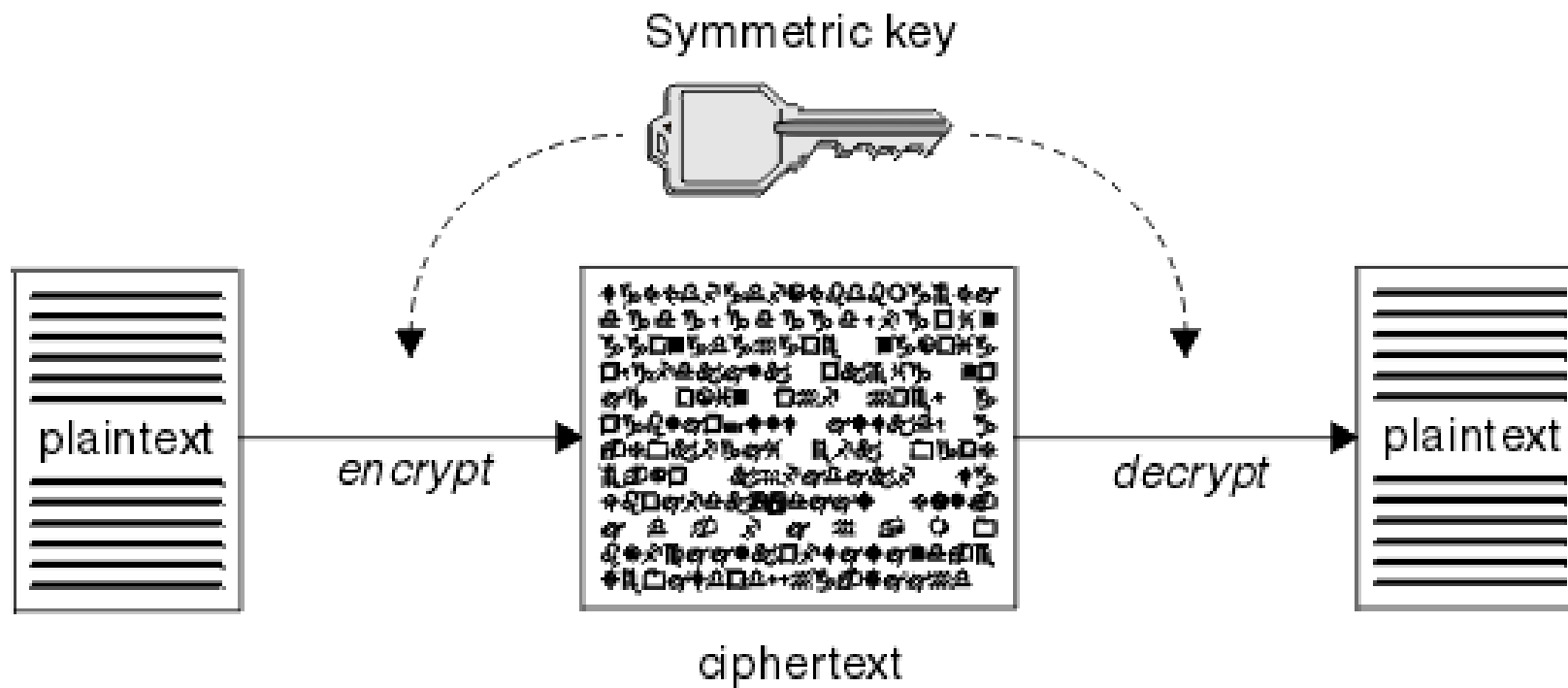
Quantum Communications



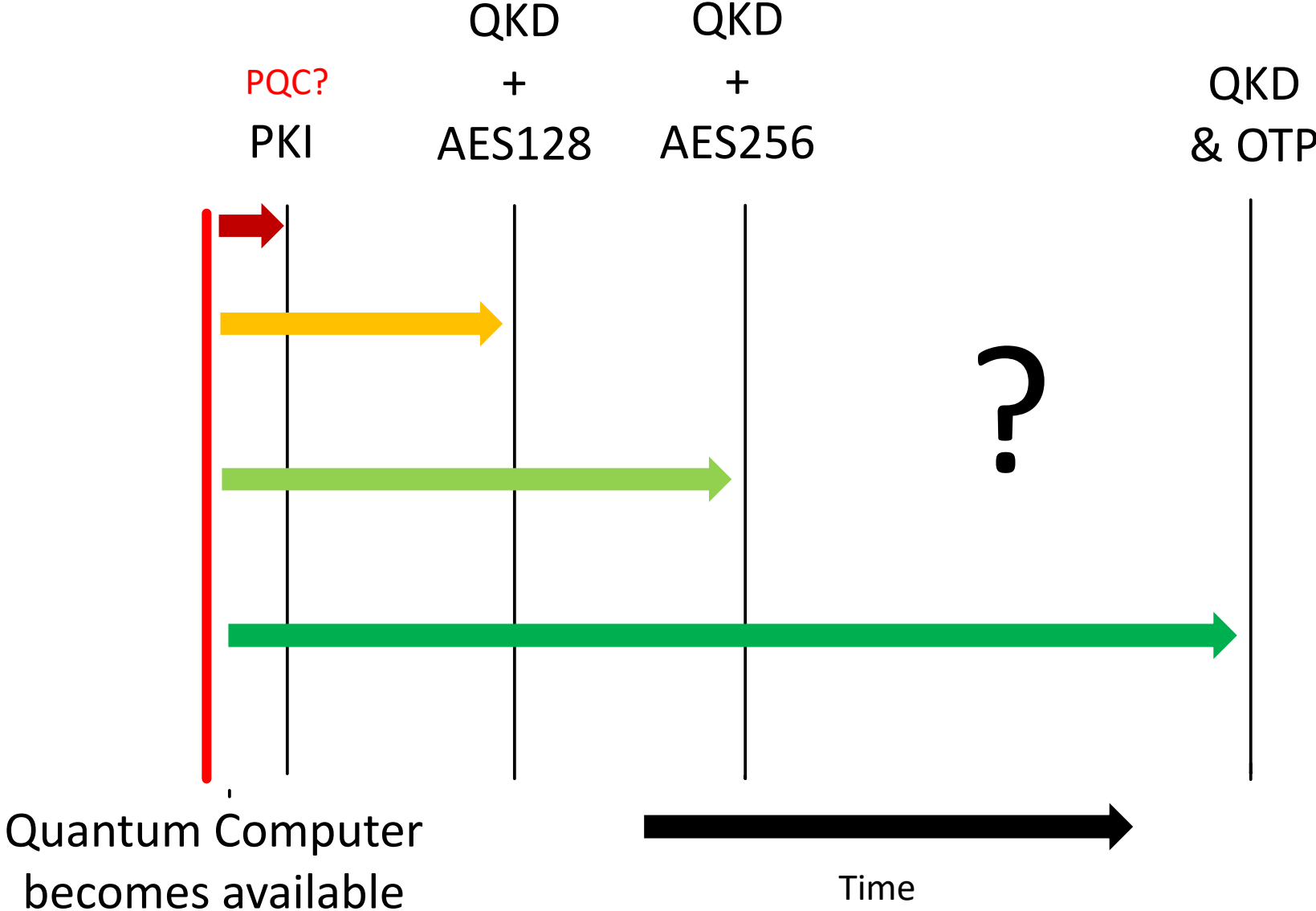
Transfer of quantum “signals”

- Qubits
- Connecting individual systems
 - Systems are atoms/ions/...
- Much work on the physical layer
 - Networking is starting
 - See <https://netsquid.org/>

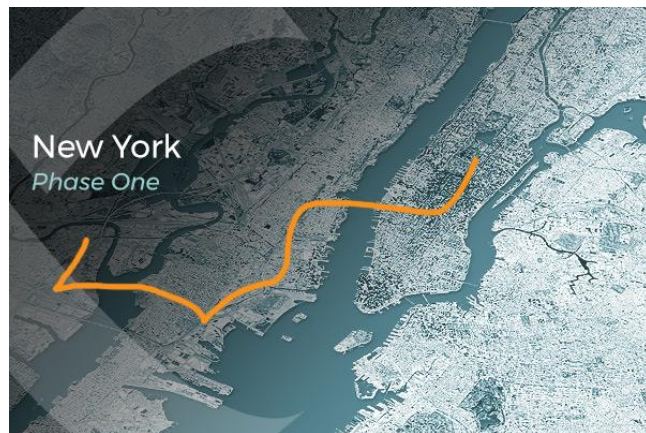
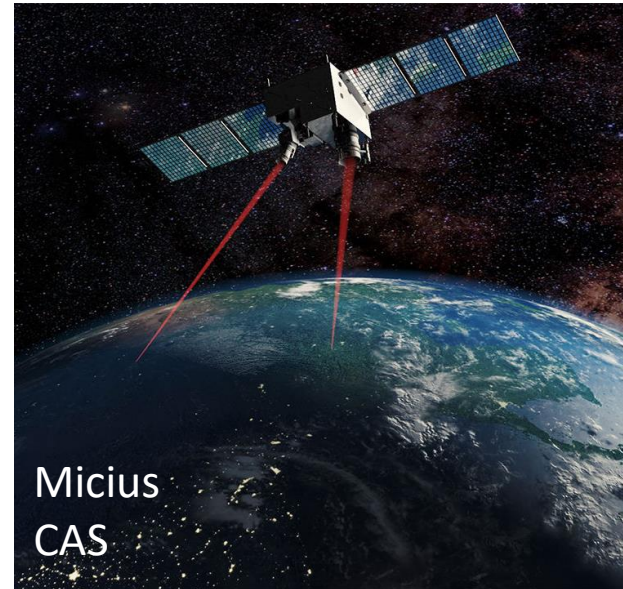
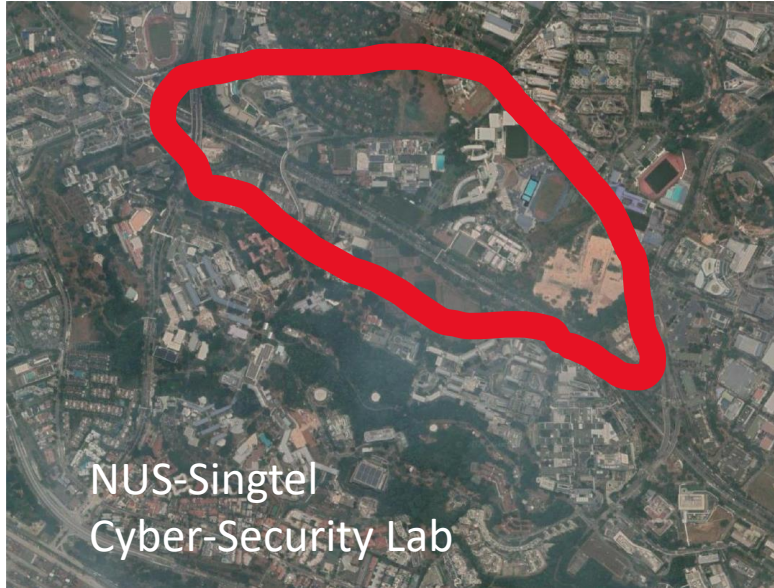
Quantum Key Distribution



Quantum Key Distribution



Quantum Key Distribution





Let's start
building!