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## Transitioning to quantum secure networks

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### Abstract

Quantum key distribution (QKD), as an essential part of quantum secure networks, has now been widely introduced not only for research purposes but also for practical use cases. This talk will present several trial cases which indicate how QKD transitions current networks, such as dedicated networks, closed networks, and internet VPNs, into quantum secure networks. In addition, the talk will touch on QKD and post quantum cryptography (PQC) hybrid architecture for protecting whole network systems, and our view on transitioning from QKD networks to quantum internet in the future.