



# Deploying QKD with optical transport

Enabling long-term security for high-speed data

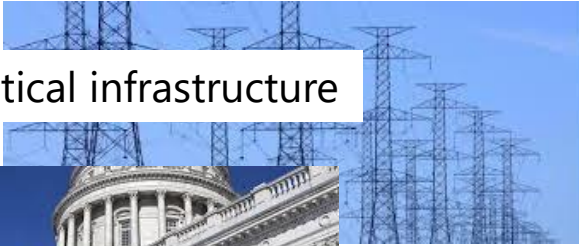
Helmut Griesser

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# QKD use cases

Critical infrastructure

Government



Data center interconnect



Enterprise



Service provider



## Information-theoretical security

- Key exchange for one-time padding
- Low data rates
- Ultimate security

## Long-term security

- Key exchange for symmetric encryption
- Very high data rates
- Suitable for optical high-speed communication

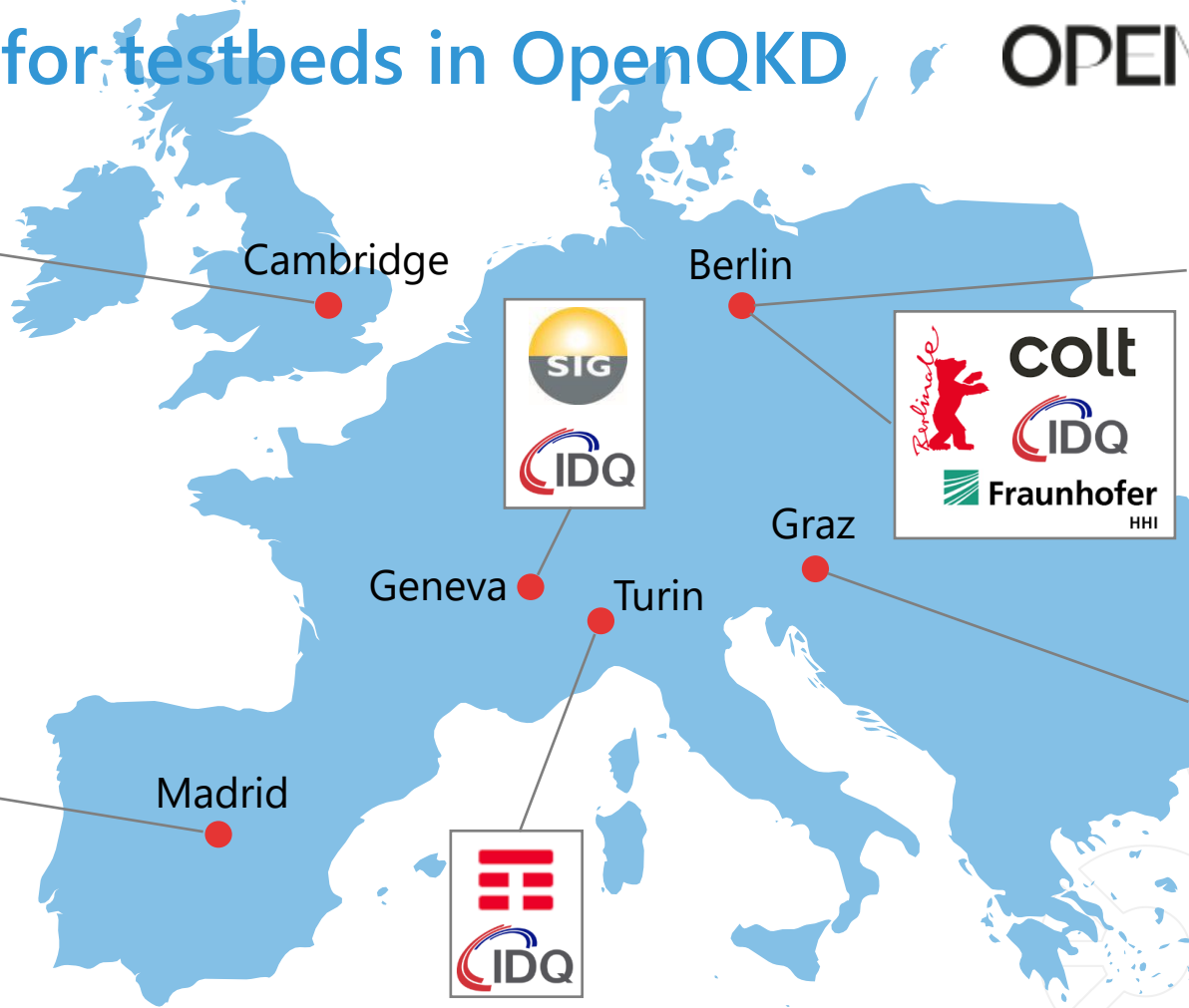
In the following: Focus on long-term security

# Support for testbeds in OpenQKD

OPEN  QKD



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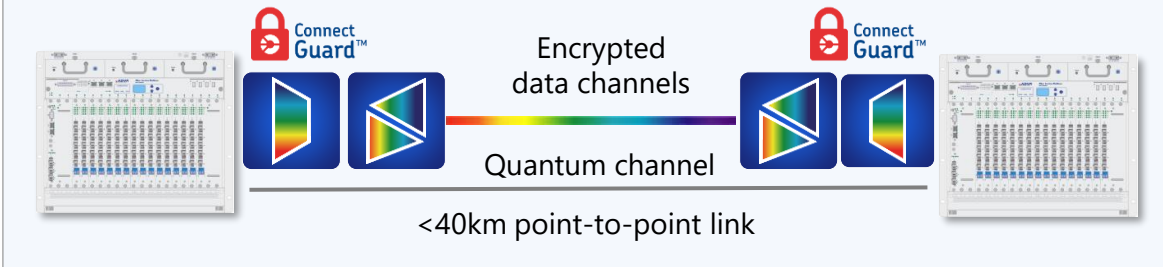


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# Real world QKD deployments

Enabling long-term security for high-speed data

## Financial institution



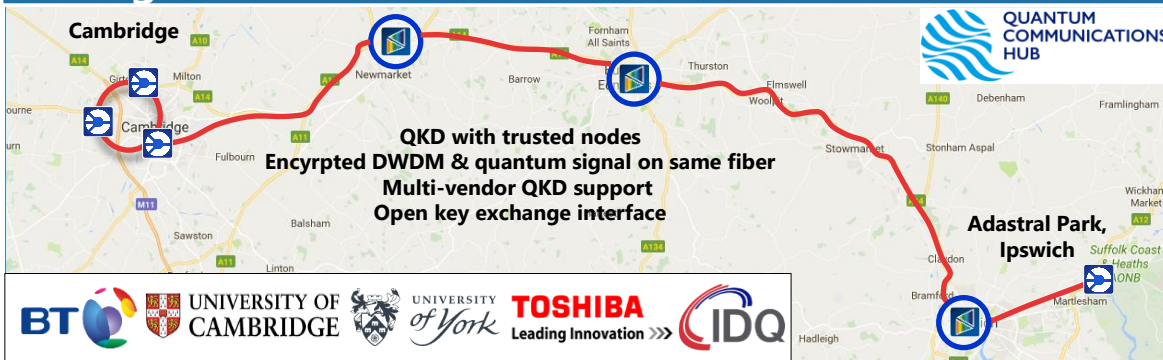
AES encryptors supporting ETSI GS QKD 014 interface



10G muxponder

100G muxponder

## UK regional network



1G/10G Ethernet



# Thank you

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