

2021 EPIC Online Quantum Technology Meeting on Implementing Secure Strategies for Past, Present & Future Communication

PhD Tommaso Occhipinti, CEO

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Who we are

The first Italian Quantum Telecommunication Company.

CNR spin-off (Italian National Research Council), incorporated in late 2020 in Florence (Arcetri).

We are a team of quantum experts and entrepreneurs working in the field of quantum technologies. Focus on fundamental atomic and quantum optics to solid state lasers and optical telecommunications, spatial and terrestrial.



— What we do



We engineer, develop and produce reconfigurable quantum key distribution architectures and quantum systems.

Our customers are private companies, government, and research institutions.

— Products outline

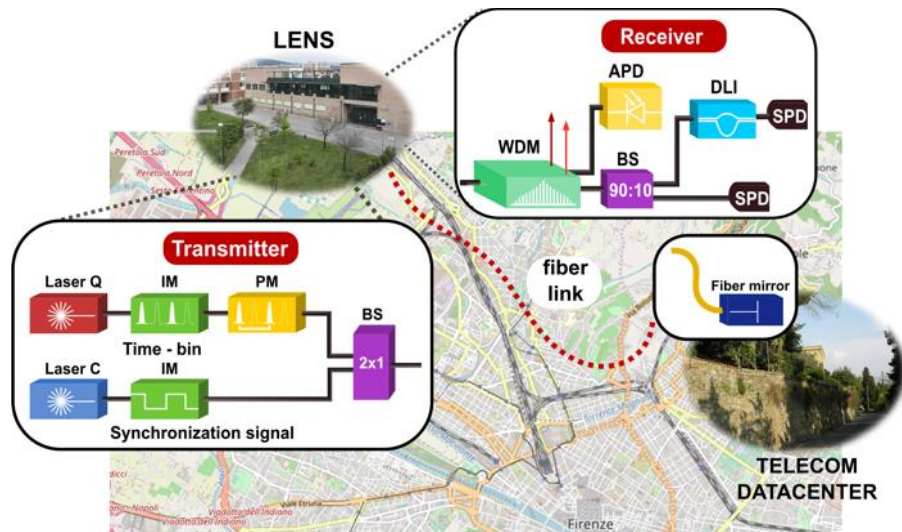


- ✓ Plug & play and easily reconfigurable QKD system
- ✓ Multi standard systems for R&D and industry applications
- ✓ Innovative technology built on a certified Italian/EU supply chain

- P1: Secure key generator
 - based on proprietary QKD engine
 - plug & play Alice & Bob units, rack based appliances
 - Local storage of the secure key in Alice & Bob units
- P2: End to end encryption system
 - Proprietary QKD engine
 - Cyphering units on dedicated hardware

CNR-QTI expertise & realizations

Metropolitan Network in Florence:



Bacco et al. *EPJ Quantum Technology* (2019) 6:5
<https://doi.org/10.1140/epjqt/s40507-019-0075-x>



RESEARCH

EPJ Quantum Technology
 a SpringerOpen Journal

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Field trial of a three-state quantum key distribution scheme in the Florence metropolitan area

First Undersea quantum link



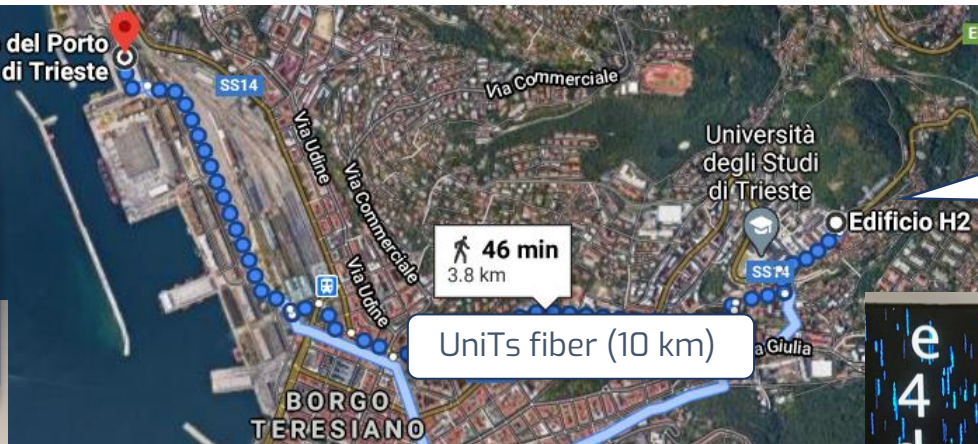
First undersea quantum key distribution fibre link between two different countries.

ESOF2020 closing ceremony

Sept. 6th 2020: "Quantum technology for an encrypted communication"



Magazzino 26 del Porto Vecchio di Trieste



The demo was a QKD enabled video-call between the Italian Prime Minister and the Magnifico Rettore of the Trieste University



... we are hiring

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