



CYQCI objectives:

- ▶ Establishment of the first QKD network in Cyprus
- ▶ Kick-start local research
- ▶ Advance technical expertise in the field of quantum communications
- ▶ Develop physical and social infrastructure for EU connectivity
- ▶ Contribute to QKD standardisation

CYQCI consortium:



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CYPRUS QUANTUM COMMUNICATIONS INFRASTRUCTURE



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2023

European Quantum Communication Infrastructure objectives:

- ▶ 1st Entanglement Quantum Network
- ▶ QKD Device production
- ▶ QKD based telecom network system production
- ▶ Deploying quantum networks in each Member State
- ▶ Making these Quantum networks available to users from public authorities and for education purposes

2025

- ▶ QKD Infrastructure Testing of Cross-Border QCI Links
- ▶ Preparing EU-wide deployment with the space & terrestrial cross-borders

- ▶ Support national efforts & coordinate a deployment plan/strategy of the whole EuroQCI

2028

- ▶ Satellite integration & Full terrestrial deployment

About the project:

The Cyprus Quantum Communication Infrastructure (CYQCI) project will be the first to address the **deployment of quantum communications in Cyprus**, introducing the technology to the island and setting the foundation for active participation of the country in the **EuroQCI** initiative.



CYQCI will:

- ▶ deploy an advanced experimental quantum network
- ▶ demonstrate use-cases whose security is vital for the operation of the country
- ▶ set the foundation for EU connectivity via the development of an optical ground station
- ▶ kick-start local research and innovation through the development of pilot hardware and software supporting the functionality of the network
- ▶ support the EU technological autonomy by procuring its critical equipment from EU suppliers
- ▶ contribute to the international standardisation efforts for quantum communications
- ▶ Quantum Communications Competence Centre (QCCC) to promote societal interest and quantum technologies

To achieve the realisation of the set objectives and work plan, the consortium has been formed to involve all necessary beneficiaries including two academic institutions, public authorities responsible for digital security and research and innovation and the largest national terrestrial and satellite network provider.