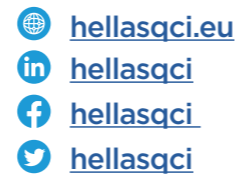# Join the **HellasQCI** **community** today!

HellasQCI aims at creating a National community for Quantum Communication Technologies. Anyone interested in Quantum Technologies is able to join this ecosystem. This community analyses the results of the deployment of **HellasQCI** systems and networks and also enables private sector quantum technologies start-ups and SMEs to shape their goals and create added value in this ecosystem.

Stay informed and connected to Quantum Communication Technology updates. **Subscribe to our newsletter** to receive latest news and key event dates and find out how you can join the **HellasQCI ecosystem**.

HQCi
HellasQCI - Quantum Communication Infrastructure for Greece

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Newsletter

Website

Training Platform

Community

HQCi
HellasQCI - Quantum Communication Infrastructure for Greece

Greece strengthens the resilience of its critical infrastructure by leveraging **quantum technologies**

HellasQCI deploys advanced national QCI systems and networks in Greece by utilising, among others, Quantum Key Distribution (QKD), optical fibre and satellite technologies.

The **HellasQCI consortium** includes governmental authorities, industrial partners and key Greek research institutes, able to address the needs for an operational **HellasQCI** infrastructure.

HellasQCI cooperates with PETRUS Coordination and Support Action (CSA) and other EU Member States in order to boost Europe's scientific and technological capabilities in **cybersecurity** and **quantum technologies**.

Project Coordinator

grnet
National Infrastructures for Research and Technology
GRNET S.A.

Project Partners

HELLENIC REPUBLIC
Ministry of Digital Governance

HELLENIC REPUBLIC
National and Kapodistrian University of Athens
EST. 1837

FORTH
FOUNDATION FOR RESEARCH AND TECHNOLOGY - HELLAS

NATIONAL CENTRE FOR SCIENTIFIC RESEARCH "DEMOKRITOS"

ARISTOTLE UNIVERSITY OF THESSALONIKI

UBITECH
quantum supremacy

SPACE

MOTOR OIL

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ΕΠΙΣΕΥ

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Institute for Information and Communication Systems Science

IAASARS

★★★ Co-funded by
the European Union

EuroQCI

HellasQCI: Greece strengthens the resilience of its critical infrastructure against cyber threats by leveraging quantum technologies

HellasQCI architecture comprises of three metropolitan test sites located at major cities of Greece namely:

- **HellasQCI** - **Central** (Athens),
- **HellasQCI** - **North** (Thessaloniki) and
- **HellasQCI** - **South** (Heraklion-Crete)
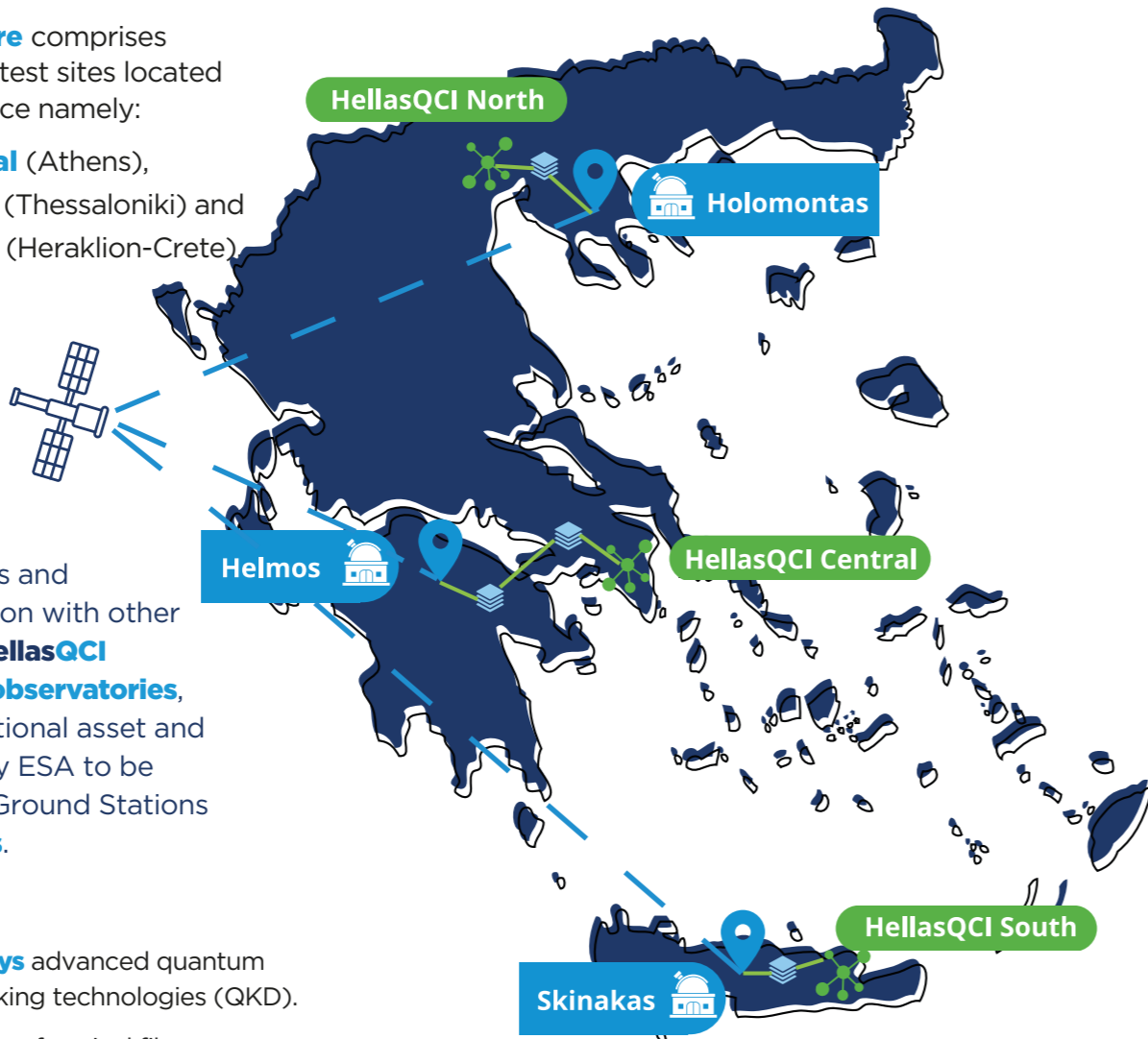
— Terrestrial Fiber link

- - Satellite-to-earth link

Telescope 0GS

Trusted Node

Metropolitan area

For inter-test-site links and international connection with other **EuroQCI** members, **HellasQCI** exploits three **Greek observatories**, which constitute a national asset and have been selected by ESA to be upgraded as Optical Ground Stations with **QKD capabilities**.

HellasQCI:

- **Develops** and **Deploys** advanced quantum systems and networking technologies (QKD).
- **Extends** over 650 km of optical fibre across Greece, comprising 22 nodes — 16 governmental and NSA sites and 6 academic and research institutions — interconnected through 27 dedicated fibre-optic links.
- **Performs** 17 advanced use cases in different application scenarios in several domains: National Security, Public Health, Industry, Critical Infrastructures, ICT and Research.
- **Offers** a holistic training environment for technical, research and end-users staff, with centralized access via the HellasQCI Training Platform.

- **Collaborates** with PETRUS CSA and other National QCI Proposals for building together the **EuroQCI**: **HellasQCI** has made 7 bilateral partnerships with **Ireland, Luxembourg, Austria, Bulgaria, Cyprus, Malta** and **Poland**.
- **Establishes** the **HellasQCI** community from all relevant national stakeholders that can benefit and support the **HellasQCI** networks, gather expertise and share knowhow on QCI and QKD.
- **Aligns** with the QKD security standards, certifications, and regulations.

HellasQCI North

Holomontas

Helmos

HellasQCI Central

Skinakas

HellasQCI South

HellasQCI is part of the European Quantum Communication Infrastructure Initiative (**EuroQCI**) and is coordinated by the National Infrastructures for Research and Technology (**GRNET** S.A.), operating under the auspices of the **Ministry of Digital Governance**.

HellasQCI proposal received letters of support from the:

- **Ministry of Defence**
- **Hellenic National Defence General Staff** – HNDGS (Army)
- Centre for Technological Support, Development and Innovation of the **National Intelligence Service of Greece**
- **Hellenic Police**

These security-related governmental authorities, including the Ministry of Digital Governance, which is a partner of the **HellasQCI** project and leads the digital strategy of Greece, support the implementation of **HellasQCI**, and showcase the need for QCI technologies in Europe.

Objectives

Objective 1: Build the National Quantum Networks infrastructure as part of the EuroQCI

01

Objective 2: Develop and Deploy advanced quantum systems and networking technologies

02

Objective 3: Advanced use cases in different application scenarios

03

Objective 4: Provide a training environment for technical, research and end-users' staff

04

Objective 5: Cooperation with EU Member States to build robust, interoperable and secure QKD systems and networks for the EuroQCI

05

Objective 6: National Stakeholder Engagement

06

Objective 7: Provide a secure architecture compatible with EU Standards and Certifications

07

Objective 8: Space segment connectivity

08