

Disclaimer

The data on the next pages presents a list of potential partners eligible for EuroQCI consortia for the deployment of the national networks within the context of the “*Deploying advanced national QCI systems and networks*” call of the Digital Europe Work Programme.

This list has been collected from the EuroQCI Innovation Roadmap document delivered to the EU Commission in January 2021, and a set of data bases and events organized by the Quantum Flagship | Quantum Community Network office in Brussels, including the “*EuroQCI industry workshop*” held on March 17th 2021 and the “*Match-making Partners Day for the EuroQCI*” held on February 3rd 2022. It contains, to the best of our knowledge, the most updated data from companies, RTOs and any other entity that are provider of hardware, software and/or consultancy services in quantum communications and/or enabling technologies. However, we recommend the list to be considered a living document subject to be updated. Moreover, there be might be companies outside of our knowledge that were not included and, as such, the list should not be considered exhaustive.

Comment about eligibility:

The presence of a company on this list should not be taken as confirmation of its eligibility to participate in any EU funding programme (such as the Digital Europe Programme). Such programmes have specific eligibility conditions: please refer to the call document of the relevant call for further details or consult the national contact point for the programme in your country. The European Commission will not perform any preliminary eligibility assessment of legal entities that may decide to participate in calls for funding.

The restrictions in relation with the participation in this call are exclusively responsibility of the European Commission and are described in the *Article 12(5)-(6) and 18(4) Digital Europe Regulation 2021/694*) and in the “Eligibility criteria” included in the text of the call. Some additional information can be also found here: https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/guidance/guidance-participation-in-dep-he-edf-cef-dig-restricted-calls_dep-he-edf-cef-dig_en.pdf.

To the best of our knowledge, non EU-27 entities can still act as suppliers of goods and services for the Digital Europe call “*Deploying advanced national QCI systems and networks*”.

List of partners (version 2.5)

Company/Institution	Products/Services	Country
Terrestrial QKD Systems		
KEEQUANT GmbH	CV-QKD Systems	DE
LuxQuanta	CV-QKD Systems	ES
Think Quantum	DV-QKD System	IT
QTI Quantum Telecommunications Italy	DV-QKD System	IT
ID Quantique Europe	DV-QKD System	AT
Toshiba Europe GmbH	DV-QKD System	DE
Q*Bird	MDI-QKD System	NL
Quantum Optics Jena	Entanglement-based QKD System	DE
Department of Networked Systems and Services, University of Budapest	Experimental CV-QKD system	HU
Satellite QKD		
SES	Design and implementation of LEO satellite QKD	LU
QTLabs	components for satellite QKD and ground stations	AT
HISPASAT	Satellite QKD	ES
Thales Alenia Space	Satellite QKD	FR
Toshiba Europe GmbH	Components for satellite QKD and ground stations	DE
QKD subsystems		
KEEQuant GmbH	Broadband coherent detector	DE
Micro Photon Devices	Single-photon detectors, Quantum Random Number Generator	IT
AUREA Technology	Single-photon detectors	FR
QuSide Technologies S.L.	Quantum Random Number Generator	ES
KEEQuant GmbH	Quantum Random Number Generator	DE
Robert Bosch GmbH	Quantum Random Number Generator	DE
Quandela	Single photon source	FR
Single Quantum B.V.	Superconducting single photon detectors	NL
Toshiba Europe GmbH	Quantum Random Number Generators, Entangled Light Sources	DE
Quantum Optics Jena	Entangled photon-pair sources, polarisation analyser	DE
Alea Quantum Technologies	Quantum Random Number Generator	DK

Optical components		
Kylia	90° optical hybrid, optical interferometers, optical switch	FR
Micro Photon Devices	Avalanche photo diodes	IT
Fraunhofer HHI – Heinrich-Hertz-Institute	Variable optical attenuator, InP PIC manufacturing, Waveguide optics, Avalanche photo diodes	DE
SMART Photonics B.V.	InP PIC manufacturing, Low-linewidth, compact lasers, Optical modulator, Optical switch, Variable optical attenuator	NL
LEOS	Low-linewidth, compact lasers	IT
Toptica	Low-linewidth, compact lasers	DE
Ferdinand-Braun-Institut (FBH)	Low-linewidth, compact lasers	DE
qutools GmbH	Optical interferometers	DE
iXBlue Photonics	Optical modulator	FR
Jenoptik	Optical modulator	DE
Laser Components GmbH	PIN-Diodes	DE
Tesat-Spacecom GmbH	Laser terminals for intersatellite links	DE
Electronic components		
AUREA Technology	Time-tagging electronics	FR
Infineon AG	µController, µ-Electronics	DE
Socionext Europe GmbH	Application-specific integrated circuit	DE
PicoQuant GmbH	Coincidence logic, Time-tagging electronics	DE
Cologne Chip AG	Field-programmable gate array	DE
Geitmann	High-Speed Analog-to-Digital-Converter, High-speed Digital-to-Analog-Converter	DE
Socionext Europe GmbH	High-Speed Analog-to-Digital-Converter, High-speed Digital-to-Analog-Converter	DE
iXBlue Photonics	Modulator bias controllers, Radio-frequency amplifiers, RF-Electronics	FR
SHF Communication Technologies AG	Radio-frequency amplifiers, RF-Electronics	DE
Optlasers	Temperature controller	PL
qutools GmbH	Time-tagger	DE
Swabian instruments GmbH	Time-tagger	DE
Creotech Instruments	Control and measurement systems for quantum technologies, space systems	PL
Relcom Kft	Homodyne detectors	HU

Software components		
KEEQuant GmbH	CV-QKD post-processing, CV-QKD digital signal processing, QKD Key Management System	DE
AIT GmbH	CV-QKD post-processing, DV-QKD post-processing, QKD Key Management System	AT
LuxQuanta	CV-QKD post-processing, CV-QKD digital signal processing	ES
Toshiba Europe GmbH	Key Management System, Quantum Network Control System	DE
Communication network systems		
Rohde & Schwarz Cybersecurity GmbH	Hardware encryptor	DE
Thales Six Gts France SAS	Hardware encryptor	FR
ADVA Optical Networking SE	Hardware encryptor, optical transport hardware	DE
Telsy	telecommunication protection and cybersecurity	IT
Beyond Semiconductor	Network encryptor	SI
Fragmentix	IST-secure cloud storage solutions	AT
VSB - Technical University of Ostrava	QKD Network Simulation Module	CZ
Other services		
LuxQuanta	CV-QKD security proofs	ES
VPI photonics	Optical design software for QKD systems	DE
Beyond Semiconductor	QKD industrialisation	SI
CESNET	Research and Education Network	CZ
EXATEL	National telecom operator in Poland, cybersecurity solutions, penetration testing	PL
GMV	Security technology for critical infrastructure protection	ES
European Metrology Network for Quantum Technologies: EMN-Q	Federated metrology infrastructure for quantum technologies	IT
KIUTRA GmbH	Low temperature cooling system for quantum communication devices	DE
Poznan Supercomputing and Networking Center	Communication network supplier in Poland (national NREN)	PL
QTLabs	System design and feasibility assesment	AT
Quantum Space Systems	Mission Design, QKD prototyping	DE
Quantum Industry Consortium	Association of European QT industrial partners	DE

Quantum Delta NL	Coordinator of national quantum network in The Netherlands, MDI-QKD network	NL
SONOVERO R&D	Administration of communication networks and computing clusters	PL
Tecnobit - Grupo Oesia	Security technology for critical infrastructure protection	ES
ID Quantique Europe	Design, deployment and management of QKD networks; education& training	AT