

Q-ARM

Quantum Agile and Resilient Military Communications

SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2024

CALL TITLE:

Disruptive EDF research actions

TOPIC TITLE:

Quantum technologies

DURATION OF THE PROJECT:

36 Months

TYPE(S) OF ACTIVITIES:

Generating knowledge, Integrating knowledge, Studies

ESTIMATED TOTAL COST:

€ 4,995,182.01

MAXIMUM EU CONTRIBUTION :

€ 4,995,182.01



SHORT DESCRIPTION OF THE PROJECT:

Q-ARM aims to develop a crypto-agile, quantum-secure communication and decentralized identity management system.

The project will provide a secure, future-proof system for authentication mechanisms, targeting defence and critical infrastructure environments based on a combination of post-quantum cryptography and quantum key distribution, with decentralised identities management via blockchain technologies. In addition, the project will create a comprehensive end-to-end simulator that models quantum satellite to ground station communication to deliver a highly detailed budget for performance estimation.





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**Members of the consortium and
country of establishment:**



 NAME OF THE ENTITY	 COUNTRY
ALMAVIVA THE ITALIAN INNOVATION COMPANY SPA (Coordinator)	Italy
AFSEA SEKTSIA SOFIA	Bulgaria
DEFENCE RESEARCH INSTITUTE	France
HD-INFO D.O.O.	Croatia
N10GLED LDA	Portugal
POLITECHNIKA WARSZAWSKA	Poland
TECOMS SRL	Italy
WOJSKOWA AKADEMIA TECHNICZNA IM.JAROSLAWA DABROWSKIEGO	Poland
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