

The Q-ARM proposal, coordinated by Al maviva SpA, has been accepted by the European Commission (EC) and will be funded under the European Defence Fund (EDF) programme between 2025 and 2028.

**Q-ARM (Quantum Agile Resilient Military communications)** – will provide a crypto-agile, decentralised and quantum secure identity management for defence and critical infrastructure environments. This project seeks to address the **growing need for quantum-secure communication** and **decentralised identity management in defence**. It will safeguard sensitive data exchanges and identity authentication, achieving this by leveraging the following:

- **Post-Quantum Cryptography (PQC)**
  - A form of encryption designed to be secure even against quantum computers, by utilising new mathematical approaches that even quantum computers struggle with.
- **Quantum Key Distribution (QKD)**
  - A secure form of sharing encryption keys by using quantum particles like photons, making it virtually impossible for this information to be intercepted without being detected.

By properly applying these methods Q-ARM will provide secure, future-proof protection for both authentication mechanisms and information exchange, primarily for defence and critical infrastructure environments.

Q-ARM will take place over **36 months** and will have a maximum EU contribution of **5M Euros**.

The multinational consortium for the Q-ARM project includes **Italy** (Z&P, Al maviva, Tecoms), **Croatia** (HD-INFO), **Portugal** (N10GLED), **Poland** (Politechnika Warszawska, Wojskowa Akademia Techniczna), **France** (DRI), **Bulgaria** (AFCEA).

**Zanasi & Partners** (<https://www.zanasi-alessandro.eu>) is an Italian research and advisory company, specialised in security and defence.

COORDINATOR

**Al maviva**

BENEFICIARIES



**Wojskowa  
Akademia  
Techniczna**

