

ORQUESTRA

Orchestrating the Operational Deployment of Quantum Resistant Services for Next-Generation Secure Defence Systems and 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, Design

ESTIMATED TOTAL COST:

€ 9,333,536.73

MAXIMUM EU CONTRIBUTION :

€ 9,333,536.73



SHORT DESCRIPTION OF THE PROJECT:

The project aims to integrate post-quantum cryptography (PQC) capacity both on the field or in legacy military installations.

ORQUESTRA aims to provide practical, formally verified and efficient implementations of PQC algorithms addressing the current need towards bridging the gap between the computing intensive problems of PQC and the operational deployment of cryptography systems that can provide certifiable, quantum-resistant level of security. To do so, ORQUESTRA will develop a palette of programmable software optimizations and shared hardware accelerators in a cost-effective manner.

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



 NAME OF THE ENTITY	 COUNTRY
GIOUMPITEK MELETI SCHEDIASMOS YLOPOIISI KAI POLISI ERGON PLIROFORIKIS ETAIREIA PERIORISMENIS EFTHYNIS (Coordinator)	Greece
ACCELIGENCE LTD	Cyprus
AFSEA SEKTSIA SOFIA	Bulgaria
ASTRIAL GMBH	Germany
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	France
COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES	France
CYBERNETICA AS	Estonia
IMPACT	France
INESC ID - INSTITUTO DE ENGENHARIADE SISTEMAS E COMPUTADORES, INVESTIGACAO E DESENVOLVIMENTO EM LISBOA	Portugal
LATVIJAS MOBILAIS TELEFONS SIA	Latvia
NATIONAL INFRASTRUCTURES FOR RESEARCH AND TECHNOLOGY	Greece
NETCOMPANY-INTRASOFT SA	Luxembourg
OFFICINA STELLARE SPA	Italy
QUBITECH IDIOTIKI KEFALAIOUCHIKI ETAIREIA	Greece
RUNOTECH E.E	Greece

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



 NAME OF THE ENTITY	 COUNTRY
TECHNISCHE UNIVERSITEIT DELFT	The Netherlands
THEON SENSORS S.A.	Greece
UNIVERSITE DU LUXEMBOURG	Luxembourg
YPOURGEIO ETHNIKIS AMYNAS	Greece

