European Commission

EUROPEAN DEFENCE FUND

QANCOMFIN

Quantum Computing with Finite Elements for crack propagation in defence applications

SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2024

CALL TITLE:	Research actions focused on SMEs and research organisations
TOPIC TITLE:	Non-thematic research actions by SMEs and research organisations
DURATION OF THE PROJECT:	36 Months
TYPE(S) OF ACTIVITIES:	Generating knowledge, Integrating knowledge, Studies
ESTIMATED TOTAL COST:	€ 3,497,353.01
MAXIMUM EU CONTRIBUTION :	€ 3,497,353.01

SHORT DESCRIPTION OF THE PROJECT:

The project will design novel and disruptive sets of classical and quantum algorithms for the prediction of crack propagation in materials.

QANCOMFIN will be a starting point to make Europe's defence ecosystem quantum-ready, leading to future strategic, technological and operational advantage: enhanced and accelerated materials design and performance, cost reduction and enhanced safety and operational reliability. It aims at minimising downtime and improving combat readiness integration into a commercially available finite element analysis simulation package to predict crack propagation in materials.

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#EUDefenceIndustry

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Members of the consortium and country of establishment:

NAME OF THE ENTITY	COUNTRY
IMPETUS ADVANCED FINITE ELEMENT ANALYSES AS (Coordinator)	Norway
FORSVARETS FORSKNINGINSTITUTT	Norway
FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV	Germany
MULTIVERSE COMPUTING SL	Spain

More information about the European Commission's support for the Defence Industry