



Quantum Secure Communication and Navigation for European Defence (QuantaQuest)

Under the Preparatory Action on Defence Research (PADR), the grant for the Research Action call on the topic 'Future Disruptive Defence Technologies – Emerging Game-changers', subtopic (3) 'Quantum Technologies for defence applications' was signed on 19 July 2021. The awarded project, called QuantaQuest, is led by THALES SA (France). The consortium encompasses a total of 9 participants from 3 countries. The project, which has a duration of 28 months, will receive an EU grant of roughly €1,5 million.

PADR Call FDDT-EMERGING-03-2019 – Information on the awarded project				
Name of the project		Quantum Secure European Defence		and Navigation for
Short name		QuantaQuest		
Summary of the project				
QuantaQuest project will contribute to the applicability of quantum technologies in the military field and to the strategic autonomy of Europe. Navigation and timing will be achieved through a fully autonomous sensor based on cold atom chip and photonic integrated circuit that provide the required performance and portability. Secure communication will be improved by a new modulation scheme to implement Quantum Key Distribution. Field operation compatibility will be ensured with a free space approach. Quantum interface will be implemented as the opening gate to a quantum network of sensors. The technical work will be supported by the definition of operational scenarios to maximize its impact and benefits.				
Project duration 28 months		28 months		
Starting date 01		01 September 2021		
Maximum foreseen EU Contribution € 1.471.739,46				
List of participants				
#	Name of the entity		Country	EU Contribution requested by the entity
1	THALES SA		France	€ 319.101,34
2	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS		France	€ 81.609,76
3	LABORATORIO EUROPEO DI SPETTROSCOPIE NON LINEARI		Italy	€ 133.245,77
4	LEONARDO - SOCIETA PER AZIONI		Italy	€ 193.076,65
5	LIONIX INTERNATIONAL BV		Netherlands	€ 311.626,80
6	QuiX BV		Netherlands	€ 141.565,35
7	TELESPAZIO SPA		Italy	€ 57.236,92
8	THALES ALENIA SPACE FRANCE SAS		France	€ 82.076,03
9	UNIVERSITA DEGLI STUDI DI PAD	OVA	Italy	€ 152.200,85

 $\underline{https://www.eda.europa.eu/what-we-do/activities/activities-search/pilot-project-and-preparatory-action-for-defence-research/pilot-$



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