

AVALON

UnderwAter optical wireless communication network architecture empowered by adVanced optiCAI materiaLs for sea bOrder protection and deep-sea exploration

SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2023

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, Design

ESTIMATED TOTAL COST:

€ 3,994,552.51

MAXIMUM EU CONTRIBUTION :

€ 3,994,552,51



SHORT DESCRIPTION OF THE PROJECT:

AVALON envisions the design of a reliable and flexible, secure and private, scalable wireless system that supports high-speed underwater communication.

The AVALON project aims to develop a powerful technology that will dramatically increase the capabilities of current underwater wireless optical communications by enabling high data rates and near-latency-free broadband communications in real time beyond the underwater line-of-sight and over distances of up to 100 metres. These results are expected to open the door for the realisation of novel highly capable underwater optical wireless networks for military applications.

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#EUDefenceIndustry**

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



 NAME OF THE ENTITY	 COUNTRY
ARTEMIS RESEARCH & INNOVATION S.R.L. (Coordinator)	Romania
CONSIGLIO NAZIONALE DELLE RICERCHE	Italy
ETHNIKO IDRYMA EREVNON	Greece
GESELLSCHAFT FUR ANGEWANDTE MIKRO UND OPTOELEKTRONIK MIT BESCHRANKTERHAFTUNG AMO GMBH	Germany
IANUS CONSULTING LTD	Cyprus
INNOCUBE I.K.E.	Greece
META MATERIALS SINGLE MEMBER S.A.	Greece
ODYSSEUS SPACE SA	Luxembourg
OULUN YLIOPISTO	Finland
PANEPISTIMIO DYTIKIS MAKEDONIAS	Greece
PLANOPSIM NV	Belgium
PUOLUSTUSMINISTERIO	Finland
UNIVERSITAT POLITECNICA DE CATALUNYA	Spain

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



NAME
OF THE ENTITY

UNIVERSITE DU LUXEMBOURG



COUNTRY

Luxembourg

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

