

ASTERION

Adaptive and Secure Technology-Enabling Reliable and Integrated Opto-acoustic underwater Networking

SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2024

CALL TITLE:

Research actions on underwater warfare

TOPIC TITLE:

Secured and adaptive underwater communications for UUSs

DURATION OF THE PROJECT:

36 Months

TYPE(S) OF ACTIVITIES:

Integrating knowledge, Studies, Design

ESTIMATED TOTAL COST:

€ 23,245,021.90

MAXIMUM EU CONTRIBUTION :

€ 23,245,021.90



SHORT DESCRIPTION OF THE PROJECT:

ASTERION will develop a universal architecture for underwater communication for both intra-node components and network components between the nodes.


The proposed architecture supports multiple communication modalities, including acoustic, optical other electromagnetic and above water channels (radio and internet) and accommodates various data rates and waveforms with the flexibility to integrate future technologies. The flexible architecture and standardized protocols will enhance European defence capabilities, foster innovation among small companies and startups, and promote strategic independence from third country suppliers.

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



 NAME OF THE ENTITY	 COUNTRY
NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO (Coordinator)	The Netherlands
ATLAS ELEKTRONIK GMBH	Germany
COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES	France
DOTOCEAN	Belgium
EVOLOGICS GMBH	Germany
FINCANTIERI SPA	Italy
FORSVARETS FORSKNINGINSTITUTT	Norway
INFODAS GESELLSCHAFT FUR SYSTEMENTWICKLUNG UND INFORMATIONSVERRARBEITUNG MBH	Germany
KONGSBERG DISCOVERY AS	Norway
KUNGLIGA TEKNISKA HOEGSKOLAN	Sweden
NAVAL GROUP	France
SAAB DYNAMICS AKTIEBOLAG	Sweden
SINTEF AS	Norway
SERCEL SAS	France
TEKNOLOGIAN TUTKIMUSKESKUS VTT OY	Finland

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 NAME OF THE ENTITY	 COUNTRY
THALES DMS FRANCE SAS	France
TOTALFORSVARETS FORSKNINGINSTITUT	Sweden
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