EUROPEAN UNION

EUROPEAN DEFENCE FUND

SCUALE

Sustainable Components for Underwater Acoustics using Lead-free materials in Europe

SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2022

CALL TITLE:	Research actions
TOPIC TITLE:	Sustainable components for underwater applications
DURATION OF THE PROJECT:	36
TYPE(S) OF ACTIVITIES:	Studies, Generating knowledge, Design, Integrating knowledge
ESTIMATED TOTAL COST:	€ 19,331,577.00
MAXIMUM EU CONTRIBUTION :	€ 19,331,577.00

SHORT DESCRIPTION OF THE PROJECT:

SCUALE aims to replace PZT (Lead Zirconate Titanate) for underwater acoustics with lead-free piezoelectric materials.

The SCUALE (Sustainable Components for Underwater Acoustics using Lead-free materials in Europe) project aims to study, develop and produce advanced lead-free materials and components to replace PZT (Lead Zirconate Titanate) existing ceramics with improved performance for military underwater acoustics applications. The overarching goal of SCUALE project is to initiate the establishment of at least one European supply chain of lead-free piezoelectric materials that are suitable for underwater acoustics military applications.

@defis_eu

#StrongerEurope
#EUDefenceIndustry

© European Union, 2023. Reuse of this document is allowed, provided appropriate credit is given and any changes are indicated.

European Commission

SELECTED PROJECTS
EUROPEAN DEFENCE FUND (EDF) 2022

MEMBERS OF THE CONSORTIUM AND COUNTRY OF ESTABLISHMENT:

NAME OF THE ENTITY	COUNTRY
TDMS (Coordinator)	France
ATLAS ELEKTRONIK GmbH	Germany
DTU	Denmark
Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	Germany
INNOVATION IN RESEARCH AND ENGINEERING SOLUTIONS	Belgium
Jožef Stefan Institute	Slovenia
KONGSBERG	Norway
LEONARDO	Italy
Marion Technologies	France
Optics11	Netherlands
PIC	Germany
TNO	Netherlands
TRT	France
Université de Tours	France