



FIBERSENSE

Using fiber optical cables for maritime situational awareness

SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2021

CALL TITLE:

Open call dedicated to SMEs for research of innovative and future-oriented defence solutions

TOPIC TITLE:

Research on innovative and future-oriented defence solutions

DURATION OF THE PROJECT:

36 months

TYPE(S) OF ACTIVITIES:

Generating knowledge; Integrating knowledge; Studies; Design

ESTIMATED TOTAL COST:

€ 3,386,861.61

MAXIMUM EU CONTRIBUTION :

€ 3,386,861.61



SHORT DESCRIPTION OF THE PROJECT:

FIBERSENSE will focus on and advance the Distributed Acoustic Sensing (DAS) technology.

The project “Using fiber optical cables for maritime situational awareness” (FIBERSENSE) will focus on and advance the Distributed Acoustic Sensing (DAS) technology. DAS exploits the laser - induced Rayleigh backscattering in the Fiber Optic Cable (FOC) to detect incident acoustic waves. Feasibility studies will be performed, including in an isolated-controlled environment for underwater testing, and in real operational environments, also for extended testing periods. The expected impact is increased functional life time and reduction in costs of use.



**MEMBERS OF THE CONSORTIUM AND
COUNTRY OF ESTABLISHMENT:**

 NAME OF THE ENTITY	 COUNTRY
SATWAYS (Coordinator)	Greece
AP SENSING GmbH	Germany
BUNDESWEHR TECHNICAL CENTER FOR SHIPS AND NAVAL WEAPONS, MARITIME TECHNOLOGY AND RESEARCH	Germany
CENTRO DE INVESTIGAÇÃO NAVAL	Portugal
HELLENIC MINISTRY OF NATIONAL DEFENSE	Greece
INOV – INSTITUTO DE ENGENHARIA DE SISTEMAS E COMPUTADORES, INOVAÇÃO	Portugal
NATIONAL OBSERVATORY OF ATHENS	Greece