



# 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:**

 <b>NAME</b> OF THE ENTITY	 <b>COUNTRY</b>
SATWAYS (Coordinator)	Greece
AP SENSING GMBH	Germany
BUNDESWEHR TECHNICAL CENTER FOR SHIPS AND NAVAL WEAPONS, MARITIME TECHNOLOGY AND RESEARCH	Germany
INOV – INSTITUTO DE ENGENHARIA DE SISTEMAS E COMPUTADORES, INOVAÇÃO	Portugal
NATIONAL OBSERVATORY OF ATHENS	Greece