



Opening new horizons in conducting military operations in the marine environment

<b>CALL TITLE:</b>	Research actions for SMEs and Research Organisations
<b>TOPIC TITLE:</b>	Non-thematic research actions by SMEs and research organisations
<b>DURATION OF THE PROJECT:</b>	36
<b>STARTING DATE:</b>	01/12/2023
<b>TYPE(S) OF ACTIVITIES:</b>	Generating knowledge, Integrating knowledge, Studies, Design
<b>ESTIMATED TOTAL COST:</b>	€ 3,998,845.08
<b>MAXIMUM EU CONTRIBUTION:</b>	€ 3,998,844.89

PASITHEA will develop a Hybrid Autonomous Unmanned Vehicle (HAUV) combining Unmanned Aerial Vehicle and Unmanned Underwater Vehicle technologies. The vehicle will be able to fly, hover in the air and sail under the water and to repeat air water trans-media motions. The project includes the design of a Command, Control, Communication and Intelligence system.



**AFACH (RO)** is a Higher Education military institute directly subordinated to the Air Force Staff of Romania.



**A.S. Prote Maritime Ltd (CY)** is an SME, founded in 2013 with a Branch in Athens (GR), providing security counter-piracy services to merchant ships. Since 2017, our activities are mainly focused on R&D projects, introducing UAV's technology in merchant shipping and maritime environment.



**BAL (DE)** as the coordinator of PASITHEA, has a long-term record of managing EU funded project in different programmes



**BEIA (RO)** will bring their knowledge on smart sensing and IoT Telemetry solutions, communication technologies, UAVs, real-time monitoring, and LCC.



**CATEC (ES)** is Spain's main technology center developing technologies for small and light drones. Avionics and Systems division have a large experience developing UAS/RPAS and aerial robotics technologies.



Funded by  
the European Union

The PASITHEA project has received funding from the EDF programme under grant agreement No. 101121412



**INOV (PT)** is a Research and Technology Organization working in Information and Communications Technologies and Electronics, and the leading private institute in Portugal in Security and Defence R&D.



**MARESCO Ltd (GR)** is an SME, founded in 1984, to provide technical and scientific support for marine research projects, field surveys and is also involved in sales of products and laboratory equipment for aquatic environment research and mapping.



**NTUA (GR)** is participating with three research teams from the School of Naval Architecture and Marine Engineering: The Shipbuilding Technology Laboratory, (structural analysis and design optimization of marine structures). The Division of Marine Engineering, (theoretical, computational, and experimental research on ship propulsion systems). The Division of Ship & Marine Hydrodynamics with its Ship Model Towing Tank (testing largescale models).



**SignalGeneriX (CY)** is a privately owned innovative Research and Development SME operating in the field of Digital Signal Processing and Communications.