MARITIME

(PT) Maritime Unmanned Anti-Submarine System (MUSAS)

(established in November 2019)

For Public Release

PROJECT DESCRIPTION

The Maritime Unmanned Anti-Submarine System (MUSAS) aims to develop and deliver an advanced command, control, and communications (C3) service architecture, for Anti-Submarine Warfare, taking advantage of cutting-edge technology and Artificial Intelligence, in order to counter Area Denial methods of adversaries. Moreover, it will enhance protection of underwater high value infrastructures as well as sea-based energy systems, providing quick response with appropriate levels of force to intrusion or threat to Sea Lines of Communication.

OBJECTIVES/PRODUCTS

The main objective of the MUSAS project is to develop and deliver a C3 module (Mission System and Interoperability Layer) to operate, in an open service architecture, autonomous vehicles in a multi-domain environment (Air, Surface and Subsurface) focused on Anti-Submarine Warfare missions. The secondary objective is to integrate Communications Security Network, Sensors, Combat Management System, Air, Surface and Subsurface autonomous vehicles and weapons to enhance the ASW capability of the system. To achieve the purposed objectives, and enhance Underwater Control contributing to resilience at sea, this project promotes the identification of avenues of approach and synergies in order to integrate this architecture with the Harbour and Maritime Surveillance and Protection (HARMSPRO) and Maritime (semi) Autonomous Systems for Mine Countermeasures (MAS MCM) PESCO projects.

INDICATORS

Project Execution Year (PEY) and Project Completion Year (PCY):
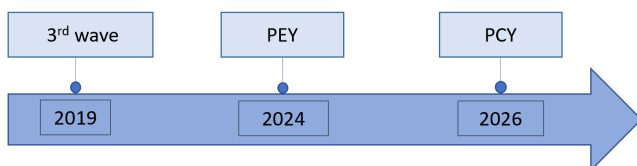
DELIVERABLES ACHIEVED

- Common Staff Target (CST)
- Common Staff Requirements (CSR)
- System Design

CRITERIA FOR SUCCESS

- Create an advanced command, control, and communications (C3) service architecture to be used by all Member States.

PT, ES, FR, SE

BE, DE, EL, IT

IDEATION
INCUBATION
EXECUTION
CLOSING

Contribution to the more binding commitments

Yes

Capability Perspective

EU CDP priority
Underwater Control Contributing to Resilience at Sea

CARD references
European Patrol Class Surface Ships (EPC2S) Focus Area

Operational Viewpoint

HICG
Maritime Engagement incl. Anti-Submarine Warfare

EDA support

No