

SPACE ASSETS FOR MARITIME OPERATIONS IN CSW

BASIC INFORMATION

Requestor/Customer:



Nations/entities
involved:



COE CSW POC:
LTCDR DEU N
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Executive Description

Space-based services play a major role in the digitalization of the oceans and provide support in multiple areas as for example in Maritime Situational Awareness (MSA), Multi-Domain Operations (MDO), Intelligence, Surveillance & Reconnaissance (ISR) and Electromagnetic Operations (EMO). However, the relevant synergies are still on the verge to be integrated in doctrines relevant for maritime operations.

With the project "Space Assets for Maritime Operations in CSW", the COE CSW is providing an overview of space capabilities contributing to naval operations to determine their optimum use by mission type. One of the key results is the conceptual background for experiments supporting the integration of space systems into maritime operations.

Support to NATO and Nations

The COE CSW acts as project manager in liaison with MARCOM, national (e.g. DEU, PRT, USA) and international (e.g. ESA, IMO, EMSA) entities to support the transfer of knowledge and to prepare and conduct experimental phases.

Furthermore, the COE CSW supports multiple NATO STO initiatives covering topics as Artificial Intelligence (AI), Maritime Situational Awareness (MSA), and Space Domain Awareness (SDA) in various roles (e.g. Group Leader) to integrate relevant aspects of various domains.

Trials / Experimentation

The COE CSW is creating a demonstrator for the integration of space assets into maritime exercises and operations. REPMUS 2022+ offers an ideal environment to conduct experiments to test the conceptual results. Together with technology partners, COE CSW is going to prepare and conduct experiments during REPMUS 2022 in Portugal (SEP 2022).