



OCEAN2020

OCEAN2020, funded under the EU's Preparatory Action on Defence Research (PADR), supports maritime surveillance and interdiction missions at sea through successful integration of manned and unmanned air, naval surface and underwater platforms into fleet operations. The project aims to enhance overall situational awareness in a maritime environment by building a comprehensive picture of developing situations for military commanders.

Selected in the 2017 call for proposals, OCEAN2020 is the largest project for the EU PADR, implemented by the European Defence Agency.



15 EU countries

Including defence ministries from 5 Member States



€35.48 Million

Largest project selected under the PADR



42 EU partners

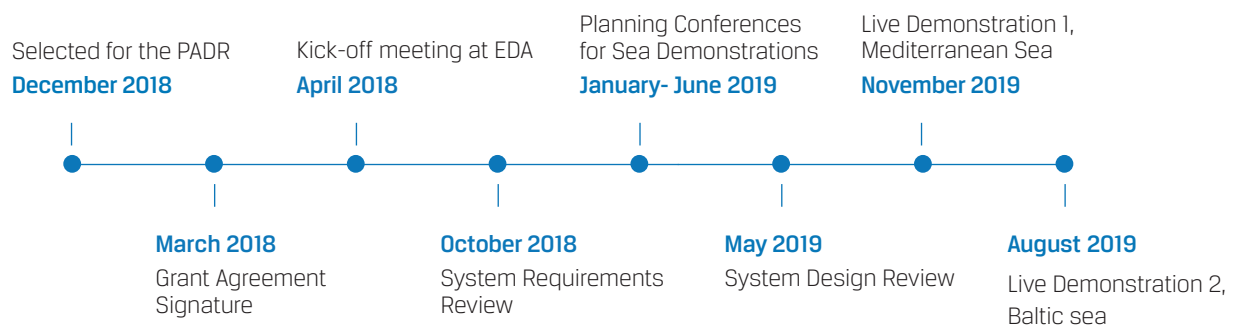
Consortium led by Leonardo



The concept

OCEAN2020 (Open Cooperation for European mAritime awareNess) is an ambitious European maritime initiative focused on the integration of multi-country systems and organisations into a European interoperable coherent framework. By bringing together data and information from a variety of heterogeneous sources in the maritime domain, OCEAN2020 covers the full range of "observing, orienting, deciding and acting" operational tasks.

Timeline





A Research Action under PADR

In March 2018 a grant agreement was signed under PADR for the Research Action call on Unmanned Systems, focusing on the topic of Technological demonstrator for enhanced situational awareness in a naval environment. The OCEAN2020 project will run for a total of 36 months ending in March 2021.

Live sea demonstrations

Live sea demonstrations are planned covering two operational scenarios: Persistent Wide Area Surveillance and Maritime Interdiction Operations. They will take place in two different environments, the Mediterranean Sea in 2019 and the Baltic Sea in 2020 aiming to show:

- » Innovative solutions for fusion of multiple data sources can be integrated with Combat Management Systems (CMSs) using a secure network to create a Recognised Maritime Picture;
- » Collaborative autonomy between multi-domain unmanned vehicles can provide a force multiplier;
- » The advantage of interoperability for joint missions

Solutions for integrating EU systems as well as integrating the individual organisations into a coherent team can contribute to increase the overall capability of European Defence in the maritime domain.

Current phase: Mediterranean Sea Live Demonstration

A live sea demonstration, led by the Italian Navy, will take place on 20-21 November within the Gulf of Taranto, Italy. Assets involved include:

- » Manned Naval Units from (IT, ES, EL, FR and NATO)
- » Unmanned Aircraft Vehicles (UAV)
- » Unmanned Surface Vehicles (USV)
- » Unmanned Underwater Vehicles (UUV)

National Maritime Operations Centres (MOC) will be connected in a common network using different protocols and connections (e.g. MARSUR, EUCISE): IT MOC in Rome, ES MOC in Cartagena, EL MOC in Athens, PT MOC in Lisbon. In parallel, a prototype of a European Maritime Operations Centre (EU MOC) will be temporarily installed at EDA premises in Brussels. This EU MOC will be connected to the network of national MOCs and will provide a recognised maritime picture, based on data and information collected from the assets deployed in the area of operations.

A Distinguished Visitors Day will take place at EDA on 21 November in the context of the OCEAN2020 sea demonstration.



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