



EUROPEAN
DEFENCE
AGENCY



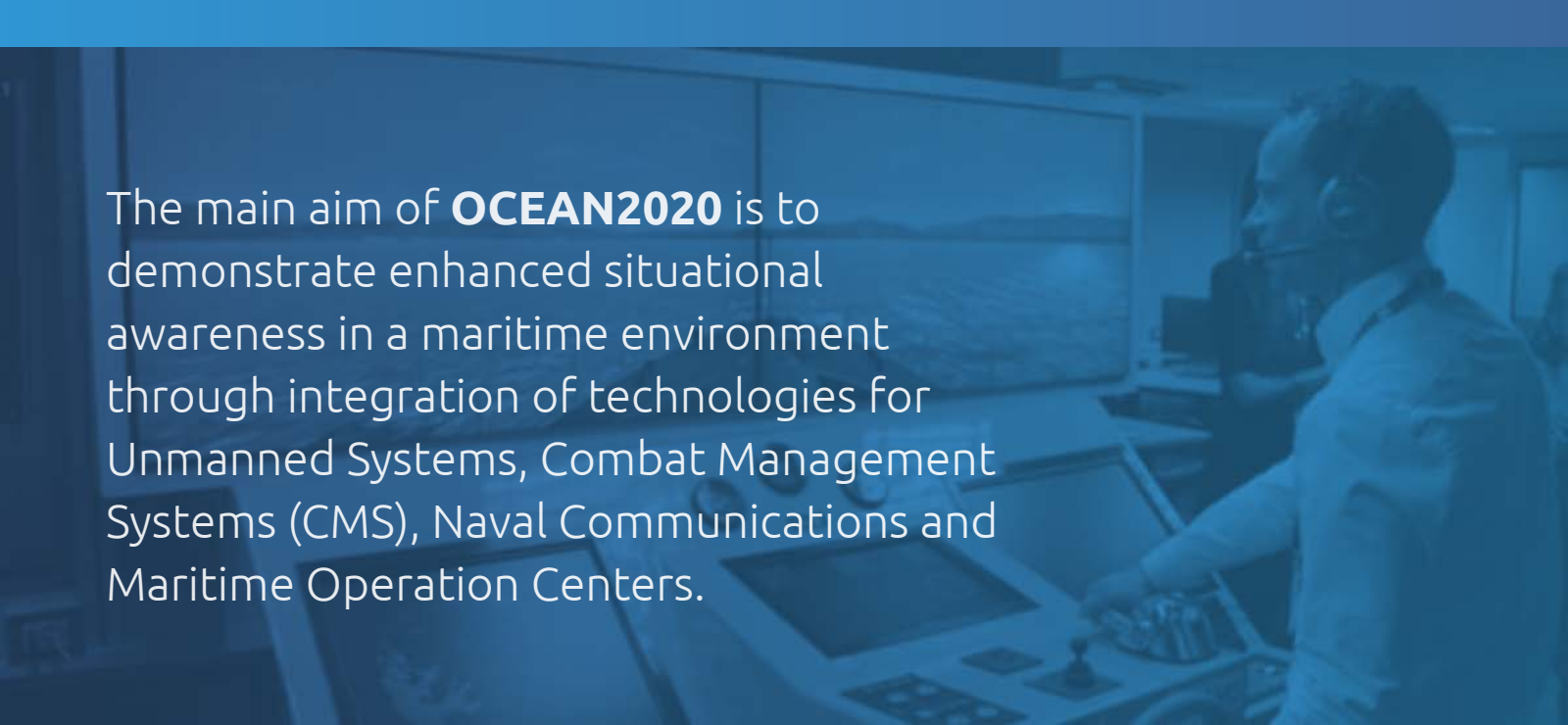
OCEAN2020

Open Cooperation for European mAritime awareNess

Technological demonstrator for
enhanced situational awareness
in a naval environment

OCEAN2020 has received funding from the European Union's Preparatory
Action on Defence Research under grant agreement No 801697

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The main aim of **OCEAN2020** is to demonstrate enhanced situational awareness in a maritime environment through integration of technologies for Unmanned Systems, Combat Management Systems (CMS), Naval Communications and Maritime Operation Centers.

OCEAN2020 represents the ambition and vision of a European maritime initiative, highlighting the strategic approach shared and undertaken by all partners.

The team involving 43 entities is drawn from 15 countries across Europe and pulls together the technical specialists in the maritime domain covering the “observing, orienting, deciding and acting” operational tasks.

The initiative aims to achieve operational, technical and impact-making objectives. The achieved results will be measured using the set of specific Key Performance Indicators (KPI):

- Situational Awareness
- Integration & Interoperability
- Autonomy
- Innovation
- Openness
- Operability
- Cost Effectiveness



Operational objectives

- Significant improvement to maritime Situation Awareness
- Extended ISTAR performance by use of unmanned systems and integration into CMS
- EU-NATO interoperability by the use of open architecture and standards

Impact-making objectives

- Diverse EU wide consortium to demonstrate large military R&T effort
- Improve market position of European defence industry in unmanned sectors
- Involve End-User in design choices



Technical objectives

- High integration among EU countries and heterogeneous systems, demonstrated in full scale-demo
- Integration of EU/NATO/civil framework data
- Increased autonomy for Unmanned and swarm operations
- Application of advanced data and information fusion techniques for shorter decision time
- Development of EU C4ISR open architecture
- Identification of open and industry endorsed standards



These activities will culminate in demonstrations in the Mediterranean and Baltic seas contributing to the EU's ability to lead innovation in support of Europe's strategic autonomy in the maritime domain.

The aim is to provide End Users with the advantage of the interoperability for joint missions and at the same time offer industry an opportunity to build Command and Control (C2) modules in a multi-company environment.

Calendar

2019
October

Mediterranean
Sea Demonstration

2021

Baltic Sea
Demonstration

Coordinator **Leonardo S.p.A.**

43 Participants - **15** countries

Project duration **2018 - 2021**

Total budget **35 480 000 €**

Participants



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