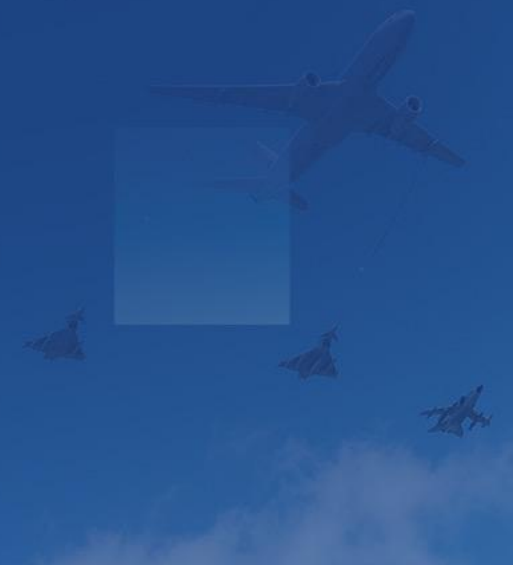
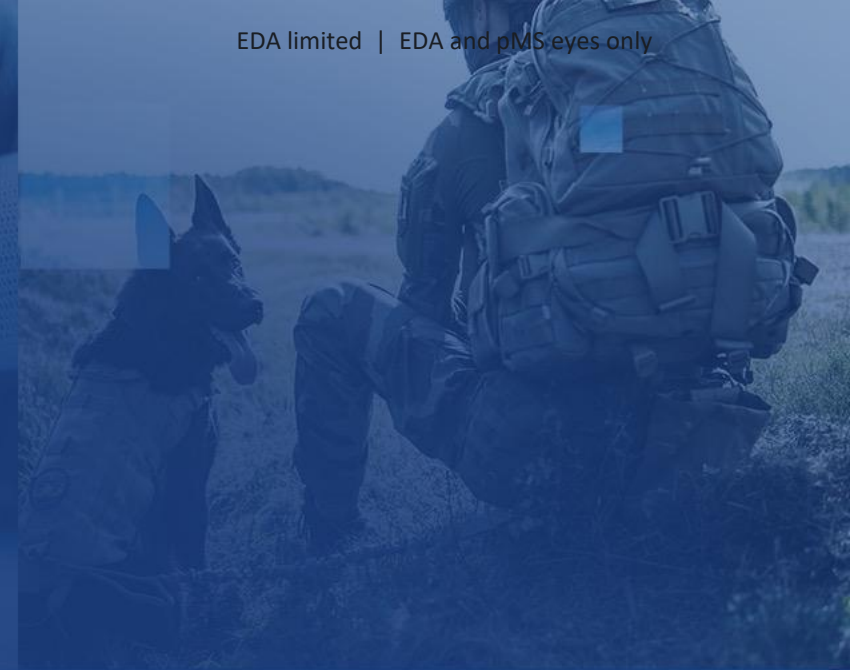


# CAPABILITY DEVELOPMENT IN THE MARITIME DOMAIN

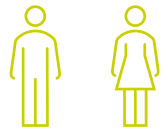
CONOR KIRWAN  
Project Officer CDP  
[Conor.kirwan@eda.europa.eu](mailto:Conor.kirwan@eda.europa.eu)



# OUTPUT-ORIENTED AGENCY

## 230 Staff

(incl. non permanent staff)



64% 36%

40% of staff coming from national MoDs

## Budget 2025

### General Budget:

€ 51 M

including Operational Budget:  
€ 9 M

## € 600+M

### Value of ongoing capability development and R&T projects & programmes involving EDA



#### Member States' contributions

Financial & in kind: €720 M



#### Industry Contributions

Financial & in kind: €100 M

End of 2023

## 155 Projects and programmes in progress

**37 Capability Development & 118 Research & Technology** projects and programmes in execution – EDA supports/manages, notably:

- **5 training** programmes
- **9 PESCO** projects
- **42 EDF** projects
- **3 Framework Contracts** providing services like SatCom and AirMedevac to MS and EU missions and operations

## Most successful projects (examples)



#### Joint Procurement of Ammunition (since 2023)

Fast track joint procurement of 155mm ammunition: 10 MS placed orders for + € 350 M



#### Combat Unmanned Ground Systems (CUGS) (since 2023)

Developing functional modules for highly autonomous combat unmanned ground systems



#### Multinational Helicopter Training Centre – MHTC (since 2019)

Launched in 2019 and successfully handed over to the Portuguese Air Force in 2024



#### Contract for Air Medical Evacuation (since 2019)

Supports EU Missions & Operations in Africa and national needs (Europe/Africa)



#### Provision of Satellite Communication equipment and services (since 2014)

Support EU Missions & Operations and national needs



#### Multi Role Tanker Transport - MRTT (since 2011)

EDA initiated in 2011 the development of the Airbus 330 multi-role aircraft fleet, incl. air-to-air refuelling capability, then taken over by OCCAR/NSPA – operational in 2023



#### MARSUR (since 2006)

Maritime surveillance project allowing for information exchange between European navies



#### LEO2VLEO satellites (2024-2026)

Development of a satellite demonstrator that can manoeuvre from Low Earth Orbit (LEO) to Very Low Earth Orbit (VLEO) and back

- ▶ EDA promotes, facilitates and manages Research and Technology activities in order to **develop knowledge and technologies needed for future defence capabilities.**

## R&T CONTRACTING TOOLS:

- ▶ EDA studies from EDA operational budget (OB)
- ▶ Cat B projects funded by Member States, Bottom up initiatives (Opt In)
- ▶ Cat A programmes funded by Member States, Top down steering (Opt Out)

## R&T MANAGEMENT TOOLS:

- ▶ 15 Capability Technology groups (CAPTECH)
- ▶ Identification of technologies - **Technology Watch and Foresight**
- ▶ Technology assessment and prioritisation:
  - **Strategic Research Innovation Agendas (SRIA)**
  - **Overarching Strategic Research Agenda (OSRA)**
  - **Technology Building Blocks (TBBs) Roadmaps**





# CAPABILITY, ARMAMENT & PLANNING DIRECTORATE MISSION

- **Identify Member States Needs** and **derive Priorities** within the EU context
- Find collaborative ways to meet these prioritised needs through
  - ✓ **Development of new capabilities** or
  - ✓ **Procurement of existing defence products**

➤ EDA Core Task

➤ EDA Core Task

➤ EDA Core Task



A military capability is a means to deliver a desired effect in a specific operating environment.

Developing a capability means developing the “**Material**” component (Defence product : platform, weapon, system, ...) but also other components making it **fit for purpose for MS Forces**:

D  
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I

- **Doctrine** (how to use it),
- **Organisation** (how to integrate it into Forces structure),
- **Training** elements (tactical : programmes, facilities)
- **Material**
- **Leadership** and education (how to insert it into the warfare)
- **Personnel** (availability of qualified personnel)
- **Facilities** (infra and industrial facilities)
- **Interoperability** (capacity to operate with other capabilities and systems)





# 2023 EU Capability Development Priorities



## LAND

- › Ground Combat Capabilities
- › Land Based Precision Engagement
- › Future Soldier Systems



## AIR

- › Air Combat Platforms & Weapons
- › Airborne Command & Inform Capabilities
- › Integrated Air & Missile Defence
- › Air Transport



## MARITIME

- › Naval Combat & Maritime Interdiction
- › Underwater & Seabed Warfare
- › Maritime Domain Awareness



## SPACE

- › Space Operations
- › Space Services



## CYBER

- › Full Spectrum Cyber Defence Operations Capabilities
- › Cyber Warfare Advantage & Readiness



## STRATEGIC ENABLERS & FORCE MULTIPLIERS

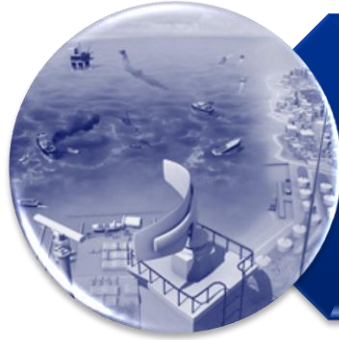
- › Electro Magnetic Spectrum Operations (EMSO) Dominance
- › Persistent & Resilient C4ISTAR
- › Military Mobility
- › Critical Infrastructure Protection & Energy Security
- › Sustainable and Agile Logistics
- › Medical Support
- › Chemical, Biological, Radiological & Nuclear (CBRN) Defence
- › Cohesive & Well-Trained Militaries



# 3

## MARITIME Domain Priorities

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### Maritime Domain Awareness

- Next Generation Maritime Situational Awareness Capabilities
- Comprehensive Underwater Surveillance Capabilities



### Underwater & Seabed Warfare

- Seabed Warfare & Deep-Water Operational Capabilities
- Underwater Force Protection Systems
- ASW (Anti-submarine Warfare) Capabilities



### Naval Combat & Maritime Interdiction

- Upgrade Current Naval Surface Systems
- Next Generation Naval Surface Combat Systems
- Long Range Armed Manned and Unmanned Maritime Systems



# Readiness 2030

## WHITE PAPER FOR EUROPEAN DEFENCE READINESS 2030



Strategic vision

Why do we need  
European Defence  
?

## ReArm Europe Plan

### ‘SAFE’ INSTRUMENT

*Proposal for a  
Regulation (‘Art. 122’)*

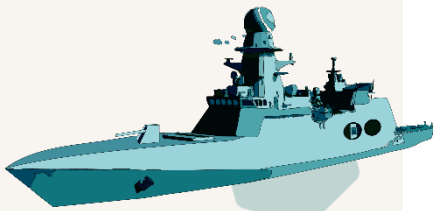


How to support rapid  
investments in the  
EDTIB?

### STABILITY AND GROWTH PACT



How to incentivise  
and accommodate  
additional defence  
expenditures ?







EUROPEAN  
DEFENCE  
AGENCY

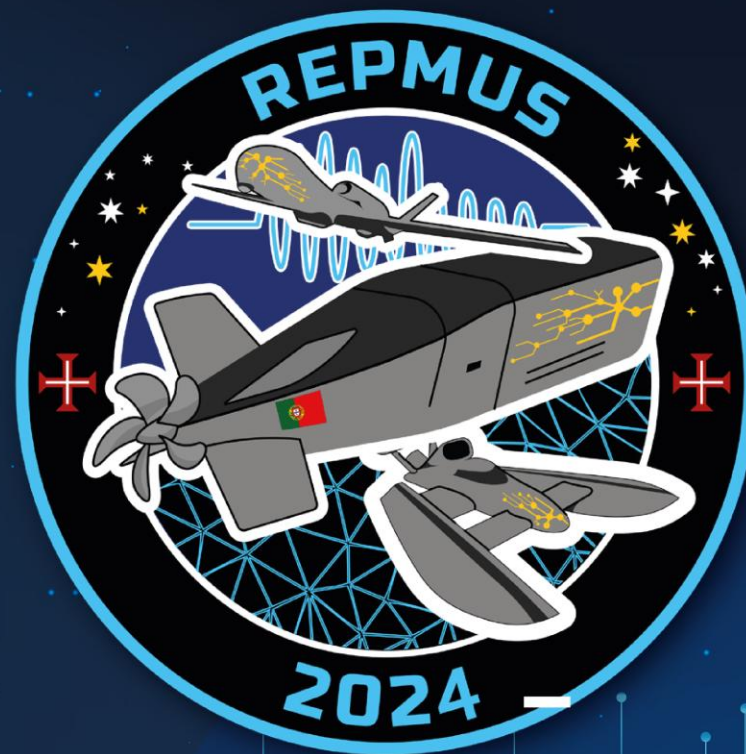
- Selection of Diving Related Projects

A G E N D A



# REPMUS

ROBOTIC EXPERIMENTATION & PROTOTYPING with MARITIME UNMANNED SYSTEMS

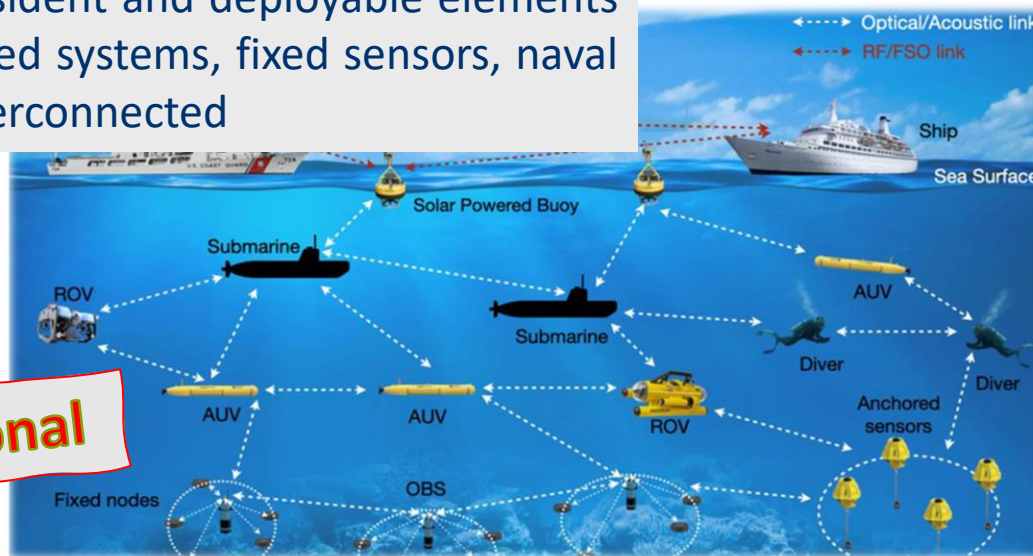


# PESCO Critical Seabed Infrastructure Protection (CSIP)



- pMS: Belgium, France, Germany, Ireland, Italy, Portugal, Spain, Sweden – Observers: Bulgaria, Denmark, Finland, Estonia + the Netherlands (in the process to join)
- Since August 2025 is an EDA Ad-Hoc Cat B project
- **AIM:** increase the EU's operational efficiency in the protection of critical maritime infrastructure from natural events, intentional attacks and deliberate sabotage by making best use of current, and the development of future, underwater assets.
- **KEY element:** development of an Underwater Situational awareness

Through a strong **underwater network** cyber secured by design composed by a **mix** of resident and deployable elements (Unmanned systems, fixed sensors, naval units) interconnected



**notional**

## PROJECT'S MAIN BREAKDOWN

3 phases → (1)short, (2)medium, (3)long term

Phase 1 (2030) → readiness 2030

**Initial** Underwater Situational awareness (UWSA) using existing technologies

Phase 2 (2035)

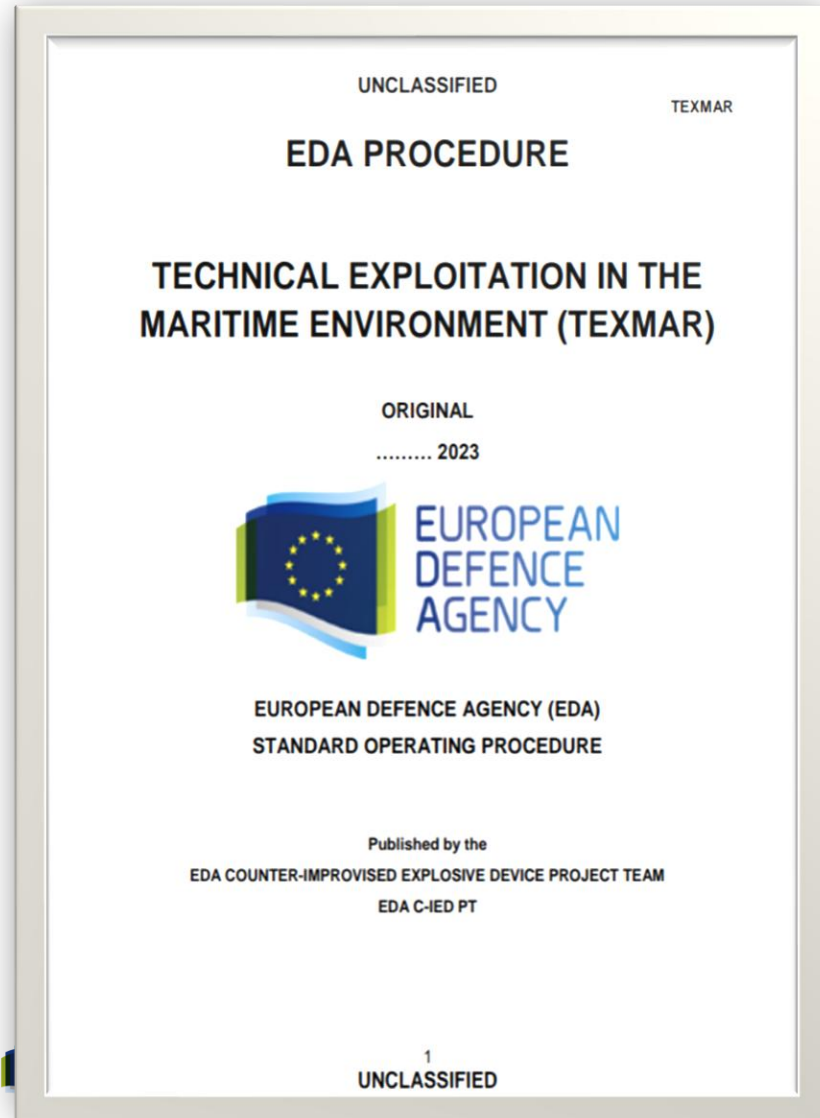
Advanced UWSA – enhance the initial capability achieved with new technologies (R&D activities)

Phase 3

Integrated UWSA-integration with effectors



# TEXMAR/ Harbour Protection Exercise



## Objective

Development and trial standard TTP to execute Technical Exploitation Level 1 in the Maritime Environment.

## Work Packages:

- ▶ WP1.2: Technical Exploitation Training Workshop
- ▶ WP2.1: Evidence Collection on Vessels and Sabotaged Facilities Workshop
- ▶ WP2.2: Evidence Collection of Dead Bodies and Small Items
- ▶ WP2.3: Best Practices Seminar and Final Conference

# DIVEPACK

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Deliver a full spectrum defensive underwater intervention capability in support of EU/NATO missions both at sea and in inland bodies of water.

The final product should be a high readiness strategically deployable asset, delivering comprehensive response to a broad range of underwater scenarios within or outside of the EU, by developing of a standard size specialized land/air/sea transportable containerized mission modules operated by qualified personnel.

# EU NETWORK OF DIVING CENTRES

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**Scope:** The project aims to enhance the interoperability, flexibility and deployability of MS defence diving and rescue forces, in particular by facilitating common education, training and certification for divers. EUNDC will support the joint use of existing capabilities in order to optimize the available resources and improve their overall effectiveness.



# EU Community of Diving Experts

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- Initiate collaborative projects
- Support implementation of the CDP
- Improve Diving Interoperability by sharing best practice, development of common procedures, and synchronisation of capability development
- Support European Projects related to diving
- Collect a common view of EU diving experts to steer international fora





# Questions?

*Thank you for your attention*

Website: [www.eda.europa.eu](http://www.eda.europa.eu)

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