EURMARS

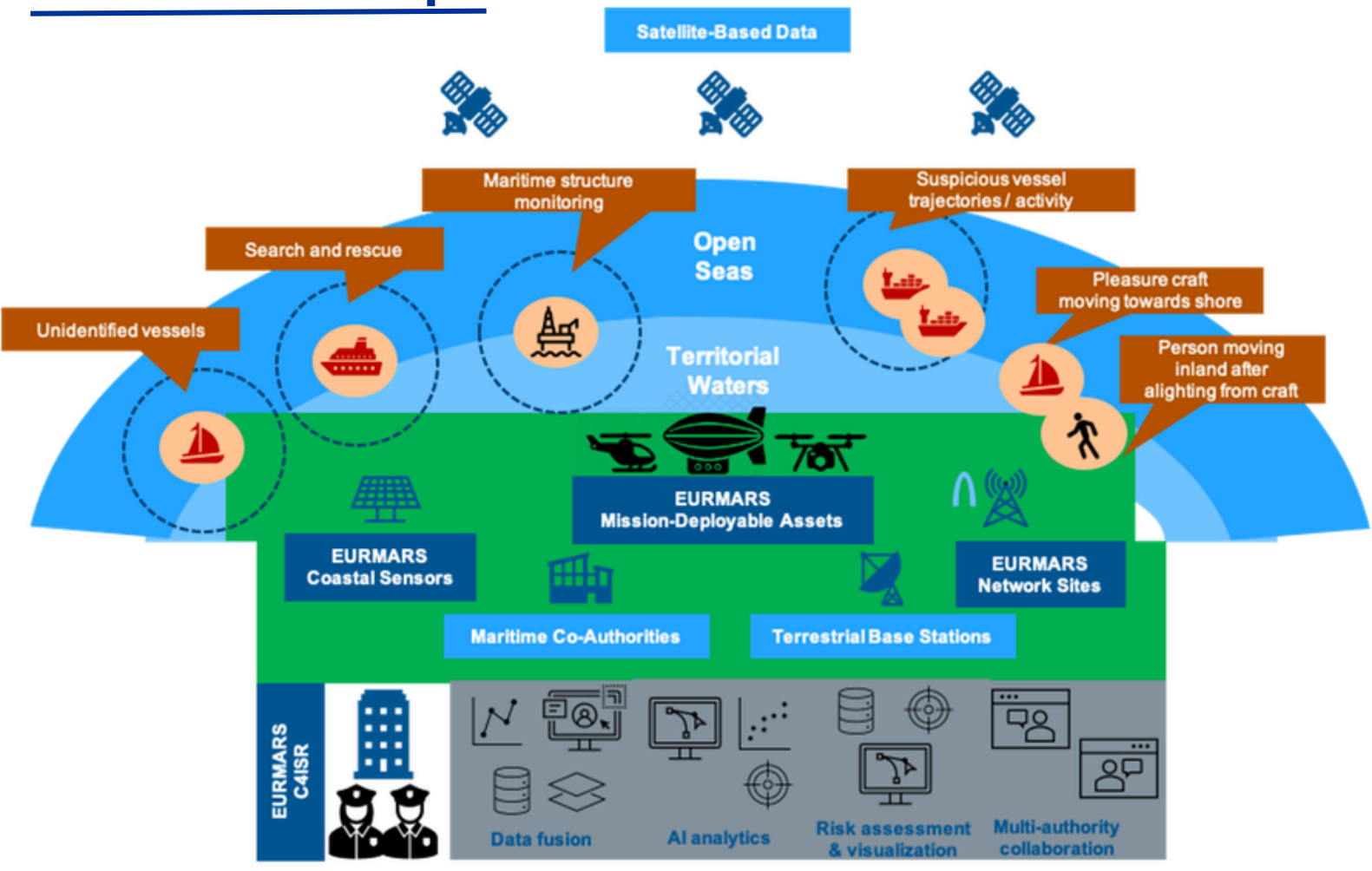
This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101073985

About EURMARS

The EURMARS project strengthens the European Union's ability to address complex security challenges in maritime border management. By developing and implementing an innovative multi-authority surveillance platform, EURMARS integrates cutting-edge technologies such as artificial intelligence (AI), advanced risk assessment tools, and visualisation techniques. Supported by state-of-the-art sensing technologies—including high-altitude platforms, satellite imagery, unmanned aerial vehicles (UAVs), and ground-based sensors—the platform provides comprehensive, real-time monitoring of maritime borders.

The primary beneficiaries of the EURMARS project are national and EU-level Border Authorities (BA) and agencies. These include coast guards, customs, border guards, police, as well as organizations focused on fisheries, environmental protection, and maritime safety.

EURMARS Concept



EURMARS

An advanced surveillance platform to improve the EUROpean Multi Authority borderR Security efficiency and cooperation

Pilot Use Cases

Maritime Border Control

Detecting and monitoring illegal activities, including trafficking and smuggling, using multi-source surveillance technologies.

Search and Rescue (SAR) Operations

Coordinating effective responses to maritime disasters and distressed vessels using UAVs and satellite systems.

Offshore Structures & Environmental Monitoring

Monitoring oil spills, offshore platforms, and preventing environmental crises with early detection tools.

Land Border Surveillance

Tracking illegal border crossings and coordinating cross-border operations among multiple national authorities.

Modern Sensors and Data Fusion

Coastal Ground and Low-Altitude Sensing

Integrating AI with SWIR, UV sensors, and cameras for enhanced detection.

High Altitude and Satellite Systems

Platforms like ICEYE, Landsat, and Copernicus enable far-reaching surveillance.

Data Fusion Platform

Combining data from multiple sources to generate actionable insights for real-time decision-making.

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