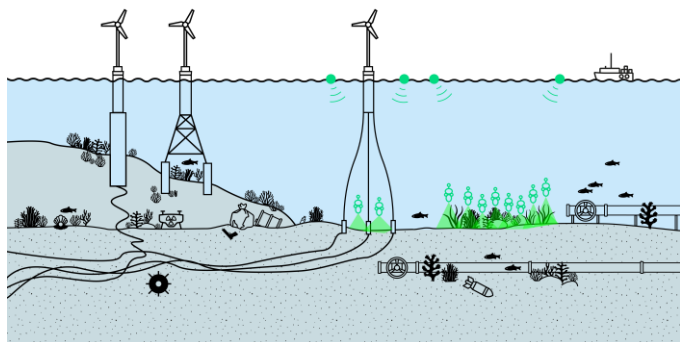




The direct way
to map the ocean

TECHNOLOGY OVERVIEW:



COSMA OPERATES A SWARM OF DRONES TO COLLECT ULTRA HIGH RESOLUTION OPTICAL IMAGERY A FEW METERS ABOVE THE OCEAN SEABED.

KEY DELIVERABLES AND FEATURES FOR USERS:

Ground-truth high-resolution images – Complete photographic coverage of studied areas at millimetric resolution, providing rich information superior to acoustic methods

Large scale mapping – Generating 2D and 3D seabed maps (benthic biocenoses or artificial cover) over large areas

AI-assisted interpretation – Utilising AI to assist in the interpretation and mapping of submarine ecosystems and artificial infrastructures

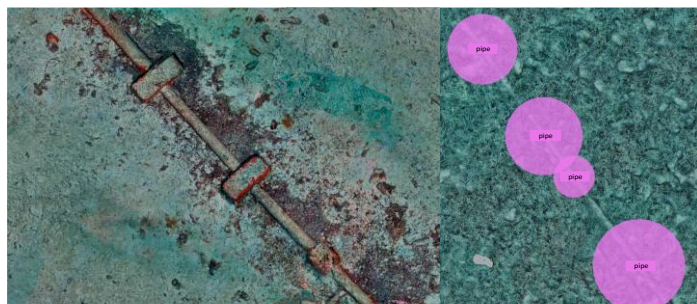
Integrated sonar and magnetic acquisition – Comprehensive coverage of study areas and detection of objects and infrastructures

Web-based data access – Access to all data layers via the Cosma web interface

Time lapse analysis – For surveillance and security operations

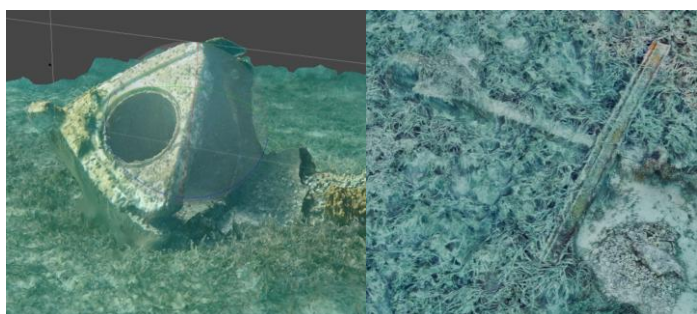
Our workflow is scalable and consistent, delivering georeferenced results from a few hectares to several km² within hours after deployment.

USE CASES:



Infrastructure inspection

Pipes, cables, foundation monitoring and decommissioning



Detailed offshore site survey

Site inspection, sub-bottom investigation and archaeological research



Benthic biodiversity

Habitat mapping, quantitative species inventory



Security

Threat detection and identification (UXO mapping, damage assessment), fast reaction

Cosma delivers high-precision, scalable seabed intelligence, providing transparent, neutral and authoritative ocean data for science, industry, and policy.

SELECTED
PARTNERS



cosma.tech
contact@cosma.tech

We make
the ocean
transparent