



DiverSea - Integrated Observation, Mapping Monitoring and Prediction for Functional BioDiversity of Coastal SEAs

PROGRAMME: HORIZON EUROPE (CALL TOPIC: HORIZON-CL6-2022-BIODIV-01-01)

TYPE OF ACTION: Research and Innovation Action (RIA)

DURATION: September 2023 – August 2027 (48 months)

COORDINATOR: Norwegian University of Science and Technology (NTNU), Norway

CONSORTIUM: 19 partners from 13 countries

TOTAL BUDGET: €9.6 million

Objectives

- O1. Improve and strengthen molecular biodiversity parameters & indicators
- **O2**. Develop & evaluate emerging methods/approaches to scalable collection of marine Essential Biodiversity Variables
- O3. Perform case studies showcasing developed emerging methods
- **O4**. Design & implementation of a combined ocean data integration & analysis system
- 05. Design & implementation of an interactive, interface for stakeholders
- **06**. Boost transdisciplinary approaches to marine science & science-based information

Expected Results

DiverSea will develop **cutting-edge marine observation and monitoring technologies**, seamlessly connected to an **interactive platform** that transforms novel data streams into **accessible**, **actionable insights for evidence-based decision-making**.

Case Studies

- csi Norwegian coastal system
- cs2 Atlantic coast of Portugal
- cs3 Western Mediterranean & Adriatic
- Eastern Mediterranean, Aegean Sea & Strait of Dardanelles
- Shallow shelf regions of Northwestern Black Sea











Did you know?

40% of the global population lives within 100 km of the coast—and nearly half of EU citizens within just 50 km. These communities keep growing, but their life-support systems are shrinking. Coastal and marine ecosystems face mounting pressure, with accelerating **habitat loss**, **biodiversity decline**, **and collapsing species populations**.

At the same time, these ecosystems are more essential than ever—supporting food and water security, and climate solutions such as blue carbon storage. This tension between growing human demand and fragile ecosystems is driving a global shift: from exploitation to stewardship. Healthy oceans are now recognized as a foundation for human wellbeing—making sustainable conservation and ocean management both an ecological and societal necessity.

DiverSea Project

Through seven coordinated work packages, our consortium of 19 partner institutions will integrate multiple streams of research into a unified workflow. This process will drive the development and refinement of innovative DNA-based monitoring technologies, enable the integration of diverse data sources—including those from emerging technologies—and support dynamic data visualization through an advanced dashboard. This dashboard will serve as a critical tool for translating complex data into actionable insights for policy and planning. Throughout the project, we are committed to meaningful public engagement, fostering open communication with stakeholders and encouraging participation through citizen science initiatives.





