



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

- 01.** Improve and strengthen molecular biodiversity parameters & indicators
- 02.** Develop & evaluate emerging methods/approaches to scalable collection of marine Essential Biodiversity Variables
- 03.** Perform case studies showcasing developed emerging methods
- 04.** 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

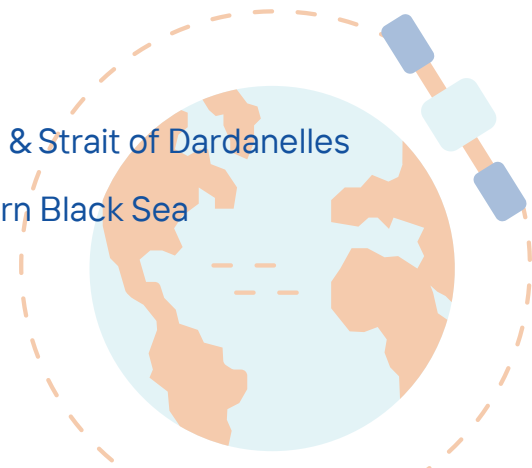
Expected Results

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



- CS1** Norwegian coastal system
- CS2** Atlantic coast of Portugal
- CS3** Western Mediterranean & Adriatic
- CS4** Eastern Mediterranean, Aegean Sea & Strait of Dardanelles
- CS5** 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.**

