Partners

- The Spanish National Research Council (CSIC) – Coordinator
- European Multidisciplinary Seafloor and Water Column Observatory – European Research Infrastructure Consortium (EMSO-ERIC)
- Marine Institute (MI)
- Polytechnic University of Catalonia
- E-Science European Infrastructure for Biodiversity and Ecosystem Research (LifeWatch-ERIC)
- Biopolis Association (BIOPOLIS)
- European Marine Biological Resource Centre European Research Infrastructure Consortium (EMBRC-ERIC)
- Sorbonne Universite (SU)
- Hellenic Centre for Marine Research (HCMR)
- EURO-BIOIMAGING ERIC
- European Molecular Biology Laboratory (EMBL)
- EGI Foundation (EGI)
- Quanta Systems SL (QUANTA)
- Pensoft Publishers (PENSOFT)
- Cytobuoy BV (CYBO)
- Science for Change (SfC)
- OSLOMET
- MarsBased SL
- Dribba Development & Consulting SL (Dribba)
- Flanders Marine Institute (VLIZ)
- (Mediterranean Countries) MedCities
- Norce Norwegian Research Centre AS (NORCE)
- University of Haifa (UH)
- French National Centre for Scientific Research (CNRS)
- The Catalonian Federation of Underwater Activities (FECDAS)

Consortium

25 Partner organizations from 13 countries in Europe and the Mediterranean Basin

Project coordinator

Jaume Piera
Spanish National Research Council (CSIC)
Institute of Marine Sciences (ICM-CSIC)

Duration

January 2023 – December 2026

Follow ANERIS

@ANERISProject
ANERIS Project
aneris_project
aneris.eu

Contact

project@aneris.eu

Funded by the European Union

ANERIS receives funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101094924. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Commission. Neither the EU nor the EC can be held responsible for them.

ANERIS

OPERATIONAL SENSING LIFE TECHNOLOGIES FOR MARINE ECOSYSTEMS

aneris.eu

VISION

Protecting marine and coastal biodiversity through technological, scientific and methodological innovation in the fields of marine life-sensing and monitoring.

MISSION

To build the next generation of marine-sensing instruments and infrastructure for systematic routine measurements and monitoring of oceanic and coastal life, and their rapid interpretation & dissemination to all interested stakeholders.

GOAL

Involving academia, industry, governments and civil society, ANERIS proposes the concept of Operational Marine Biology (OMB)) to provide faster, higher quality, reliable, and accessible marine and coastal life data using novel technology.

Background

Several anthropogenic and climatic factors are responsible for the ongoing marine ecosystem degradation and **rapid loss of ocean biodiversity**. In order to help control, minimize and reverse this negative trend, we need better **monitoring**, **research** and **management tools**, as well as the involvement and support of the **public** and all interested **stakeholders**.

The ANERIS project will contribute to the efforts against biodiversity loss by:

Developing **11 innovative technologies** for marine life-sensing using genomic, participatory, imaging and bio-optic tools.

Developing **training programs** for the operation of all new technologies for academic, governmental and industry stakeholders.

Introducing the concept of **Operational Marine Biology (OMB)** for long-term routine measurements of our oceans.

Supporting governments by providing **improved observational systems** and **accessible data** for environmental management.

Empowering civil society through participative technologies, citizen science and collaborative networks.

Work packages

WP1 – Coordination

WP2 – Genomic Technologies

WP3 – Image and Bio-optic Technologies

WP4 – Participatory Technologies

WP5 – Technology Integration and validation on large RIs

WP6 – Exploitation, Communication and Networking