EFFECTIVE

PROTECTION AND RESTORATION MANAGEMENT • MEDITERRANEAN MPAS


BioBoosting System


Geocorail Process


Cold-Water Reefs Recovery


Floating Coral Nurseries

Introduction

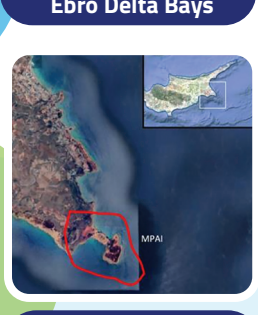
EFFECTIVE main objective is to develop a comprehensive scientific knowledge base and practical guidance, combining science, technological Nature-based Solutions, digitalization, and social implication for the application of the Ecosystem-Based Management to the protection and restoration management of the EU's Mediterranean Blue Natural Capital.

Location

Pilot area 1 – Mar de L'Emporda

Pilot area 2 – Ebro Delta Bays

Pilot area 3 – Sardinia Septentrional



Pilot area 4 – Cavo Greco

General description

The following 5 specific objectives are identified:

- **Specific Objective 1.** Apply EBMS to identify, analyse and extend an ecological corridor in the Mediterranean Sea, connecting habitats and biodiversity.
- **Specific objective 2.** Apply EBMS to analyse and extend the status of 4 MPA (marine protected areas) in the Mediterranean Sea.
- **Specific objective 3.** Demonstrate nature-based seabed protection and restoration solutions, including to preserve seabed carbon sequestration capacity, in real environment.
- **Specific objective 4.** To identify limiting factors, gaps and governance issues of existing MPA legislation regarding environmental and anthropogenic pressures, setting up links with previous projects.
- **Specific objective 5.** To implement an innovative digital data visualization and aggregation tool in the form of a Digital Twin (Blue Parks Digital Twin) for enabling data exploration, research, participation, and citizen science.

Consortium and project structure

Block I — Policy frame and prot./rest.toolbox

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Block II — Information pillar

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Block III — Participation pillar

CSIC · CTN · F6S · Federparchi EUROPARC · IMPACT2DAY · Ocean Ecostructures · ONE OCEAN FOUNDATION · SPOTTERON · SEASTAINABLE VENTURES

BLOCK A: Policy frame and protection/ restoration toolbox

- Connectivity and resilience issues of MPA — SO1
- + Pilot analysis and extend issues of MPA — SO2
- + Marine NbS protection and restoration actions — SO3

BLOCK B: Information pillar

- On-site monitoring and analytics (validate NbS) — SO3
- + Remote and wide range monitoring and analytics
- Blue Parks Digital Twin — SO5

BLOCK C: Participatory pillar

- Governance framework — SO4
- + Co-management and co-creation — SO4
- + Capacity building — SO4

Topic EO: 1 to 7

Topic EO: 1, 8

Topic EO: 1, 9

Nature-based solutions and Ecosystem services' scale up to 20% to enhance resilience from climate change impacts

Biodiversity and digital's innovative solutions for contributing to reach at least 30% of European seas protected by 2030

Expected outputs

To achieve the specific objectives, the EFFECTIVE project will contribute with 3 main Innovative Outputs that will demonstrate the effectiveness of protection and restoration solutions for ecosystems in marine protected areas.

- **Innovative Output 1.** The Ecosystem-Based Management System (EBMS) as a blueprint for the extension of marine protected areas and/or for the shift of their status from "protected" to "strictly protected".
- **Innovative Output 2.** A toolbox of Nature-based innovative technological solutions for the protection and restoration of coastal and marine ecosystems.
- **Innovative Output 3.** A digital twin demonstrator that provides insight in modelling data, observations and relevant information around selected blue parks.

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