EMBEDDING BIODIVERSITY IN MARITIME SPATIAL PLANNING

Turning Ambitions into Action with MSP4BIO





Prepared and designed by s.Pro
Natascha Jaspert, Agnese Cosulich





KEY MESSAGES FOR POLICY MAKERS



Maritin

Maritime Spatial Planning (MSP) remains an underutilized but crucial instrument for marine conservation.

2

Biodiversity must be embedded across all MSP stages — from pre-planning to implementation.

3

Legal mandates, ecosystem-based planning, and crosssector governance are essential.

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The <u>MSP4BIO</u> ESE Framework offers a practical, science-based pathway for effective biodiversity integration.

OVERCOMING BARRIERS

KEY CHALLENGES FOR BIODIVERSITY-INCLUSIVE MSP

DESPITE PROGRESS, MAJOR CHALLENGES PERSIST:

- **Insufficient and fragmented MPA coverage** undermines 30x30 biodiversity targets.
- **Legal and policy incoherence** between MSP, conservation law, and environmental directives leads to inefficiencies.
- Weak stakeholder engagement and institutional fragmentation reduce trust and legitimacy.
- Lack of ecological data, tools, and monitoring hampers evidence-based decisions.
- Climate resilience and ecological connectivity are rarely operationalized in MSP.



RECOMMENDATIONS



1. STRENGTHEN LEGAL AND INSTITUTIONAL FOUNDATIONS

- Make MSP legally binding and explicitly incorporate biodiversity protection.
- Align MSP legislation with EU directives (MSFD, CFP, Habitats) and national biodiversity strategies.
- Institutionalize inter-agency and cross-border coordination to promote coherent conservation strategies.
- Establish enforceable biodiversity thresholds in MSP (e.g., limits on seabed disturbance).
- Define and implement effective Other Effective Area-Based Conservation Measures (OECMs).

2. INVEST IN KNOWLEDGE, CAPACITY AND PARTICIPATION

- Build inclusive governance: empower local communities, MPA managers, and sectoral stakeholders.
- Foster cross-border learning and exchange via regional platforms (e.g., HELCOM, Barcelona Convention).
- Ensure adaptive planning cycles, backed by monitoring and scenario-based reviews.
- Expand SEA and cumulative impact assessments across all planning stages.
- Prioritize education, capacity-building, and accessibility of spatial planning tools.

3. FOSTER INNOVATION AND A BIODIVERSITY-FRIENDLY BLUE ECONOMY

- Secure sustainable funding for long-term monitoring and enforcement.
- Promote data transparency through real-time open-access systems.
- Incentivize biodiversity-aligned maritime sectors (e.g., pesca-tourism, restorative aquaculture).
- Support nature-based and multi-use marine infrastructure that enhances both ecological and economic resilience.

OPERATIONALIZING BIODIVERSITY INTEGRATION

The ESE Framework

The Ecological-Socio-Economic (ESE) Framework, developed under the MSP4BIO project, is a powerful tool for mainstreaming biodiversity into MSP processes.

WHAT IT OFFERS

- Step-by-step, tool-supported guidance for planners and MPA managers.
- Spatial analysis of ecosystem services, cumulative pressures, and socio-economic priorities.
- Scenario-based planning for balancing conservation with sustainable maritime use.
- A decision-support platform with tailored guidance, best practices, and interactive tools.

CALL FOR ACTION



FROM FRAMEWORKS TO IMPLEMENTATION

To meet EU 2030 biodiversity targets, MSP must evolve into a truly biodiversity-led tool—operational, inclusive, and adaptable across governance levels.

POLICY MAKERS ARE URGED TO:

- Embed biodiversity targets in all maritime policies and planning approaches, updating and aligning MSP with the MSFD, EU Nature Restoration Law, within the framework of the Ocean Pact.
- Institutionalize regional approach to MSP, supporting cross-sector and transboundary coordination through platforms like HELCOM, the Barcelona Convention, and inter-ministerial bodies.
- Adopt and scale the ESE Framework in national MSP processes to guide spatial integration of conservation, ecosystem services, and sustainable uses.
- Provide dedicated training and resources to planners and authorities for the effective application of ESE methods and tools
- Leverage EU funding programs (LIFE, Horizon Europe and other) to apply MSP4BIO tools in planning, restoration, and climate adaptation.
- Invest in data, capacity, and participation, using MSP4BIO's open-access resources, trainings, and Communities of Practice to ensure long-term uptake.

BY ACTING NOW, AUTHORITIES CAN TRANSFORM
MARITIME SPATIAL PLANNING INTO A CORNERSTONE
OF RESILIENT, BIODIVERSE, AND SUSTAINABLE
OCEAN GOVERNANCE ACROSS EUROPE.

MSP4BIO AT A GLANCE



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