

MARBEFES - MARine Biodiversity and Ecosystem Functioning leading to Ecosystem Services

Science, Values and Governance for Healthy Seas and Societies



NATURE

*Biodiversity
Ecosystem functioning
Ecosystem services*



SOCIETY

*Perceptions & values
Culture & identity
Participation & governance*



ECONOMY

*Natural capital
Blue economy
Economic assets & well-being*



FROM NATURE TO POLICY



**23 highly
experienced
partners
2022-2027**



**458 stakeholders in 3
rounds of pan-European
tool development
workshops**



**12 Broad Belt
Transects
across Europe**



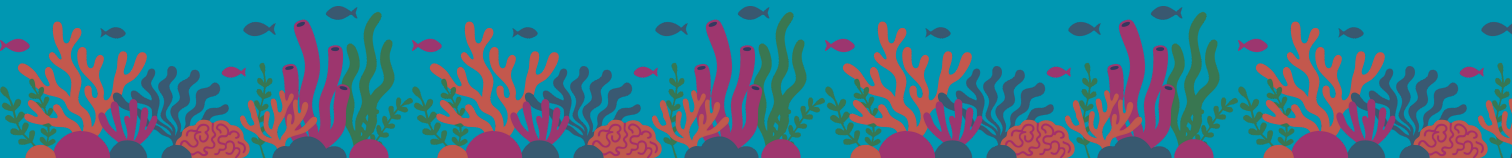
**Multiple disciplines,
toolboxes,
research actions**

**MARBEFES explores the relationships
between Nature, Society and Economy**

**We have developed almost 30 tools that
quantify or highlight the most important
interactions and inter-dependence between
these elements**

Advancing current research-driven knowledge on:

- **Molecular and automated recognition of organisms and communities**
- **Marine biodiversity and ecosystem functioning**
- **Visualisation of ecosystem interactions and management-driven measures**
- **Societal benefits and services from marine ecosystems**
- **Cultural identity and intrinsic existence values**
- **Direct and indirect economic assets**



VALUING MARINE ECOSYSTEMS TO SUPPORT DECISIONS

Valuating ecosystems to support knowledge provision and evidence-based decision-making for different sectors:

- **Natural valuation** - location-specific assessment of ecosystem components
- **Cultural ecosystem valuation** - participatory mapping of perceptions
- **Economic valuation** - monetary and non-monetary values of ecosystems and/or their components

Exploring different perspectives, challenges and visions for management of human activities in marine environments:

- **Customised risk and consequence assessments**
- **Understanding hierarchies and multi-level governance structures within regulatory frameworks (local, regional to pan-European scale) and the agencies responsible for implementing these**



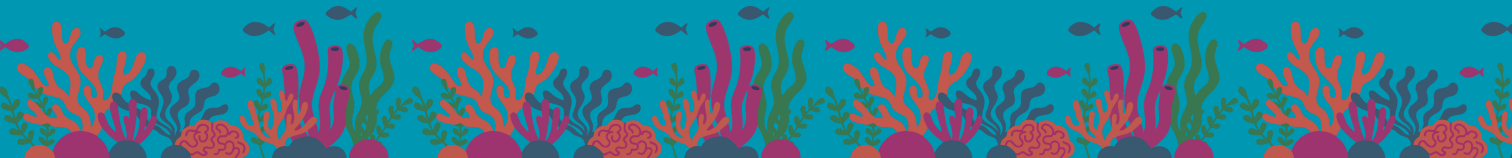
Interactive Data Mapping through GIS, EMODnet, ICES and HELCOM



Sea safety and society's knowledge priorities



Connecting policymakers, marine managers and communities



BETTER DECISIONS FOR HEALTHY SEAS

POLICY RECOMMENDATIONS



Integrate ecological, societal and economic values in all marine decision-making.



Include ecosystem service and biodiversity valuation in planning and assessments.



Promote participatory approaches to capture cultural values and local knowledge.



Strengthen cross-sector and multi-level governance for the sea.



Support the use of interoperable data, tools and open access platforms.



Ensure long-term monitoring and research to reduce uncertainty.

EXPECTED IMPACT



Better protection of biodiversity and ecosystem functions



Enhanced human well-being and cultural values



More effective, fair and evidence-based policies



Sustainable Blue Economy and resilient communities

Full list of MARBEFES publications at:
<https://marbefes.eu/article/list-of-publications>

Funded by the European Union
Horizon Europe Programme



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