



Experiencing MSP in a thematic network of Islands, Coastal and Marine MAB Biosphere Reserves in Europe

Philippe Pypaert, UNESCO-BRESCE
p.pypaert@unesco.org



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1. The MSP concept
2. The BR model
3. A dedicated thematic network



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MARINE **SPATIAL PLANNING**

A Step-by-Step Approach
toward Ecosystem-based Management

Intergovernmental Oceanographic Commission
and the Man and the Biosphere Programme



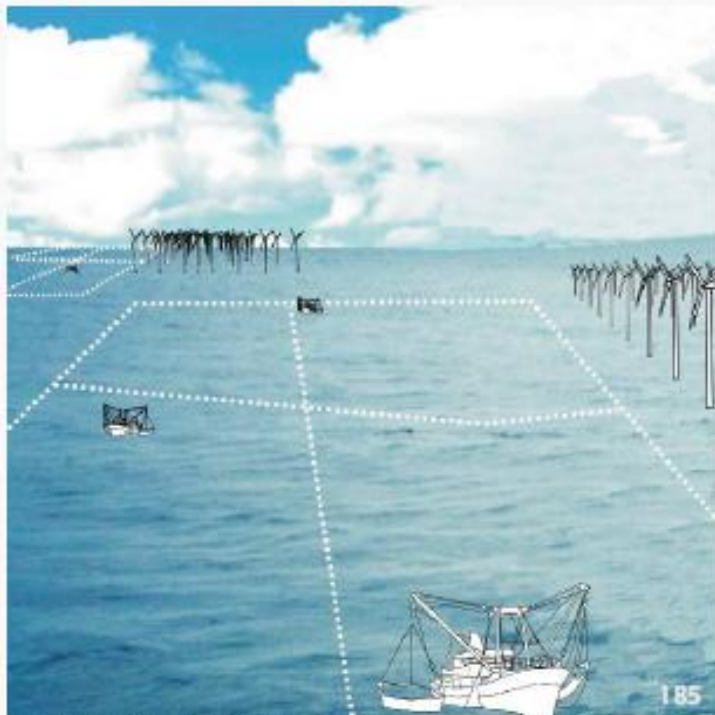


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WHAT IS ECOSYSTEM-BASED MARINE SPATIAL MANAGEMENT ?



The process of analyzing and allocating parts of three-dimensional marine spaces (ecosystems) to specific uses, to achieve ecological, economic, and social objectives that are usually specified through a political process.

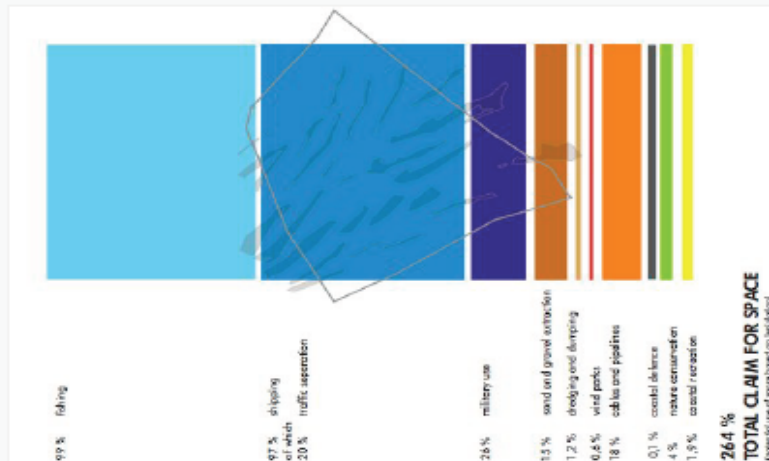
Ehler & Douvère
Visions for A Sea Change
UNESCO, 2007



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WHY IS MARINE SPATIAL MANAGEMENT NEEDED ?



Maes et al., 2005. A Flood of Space

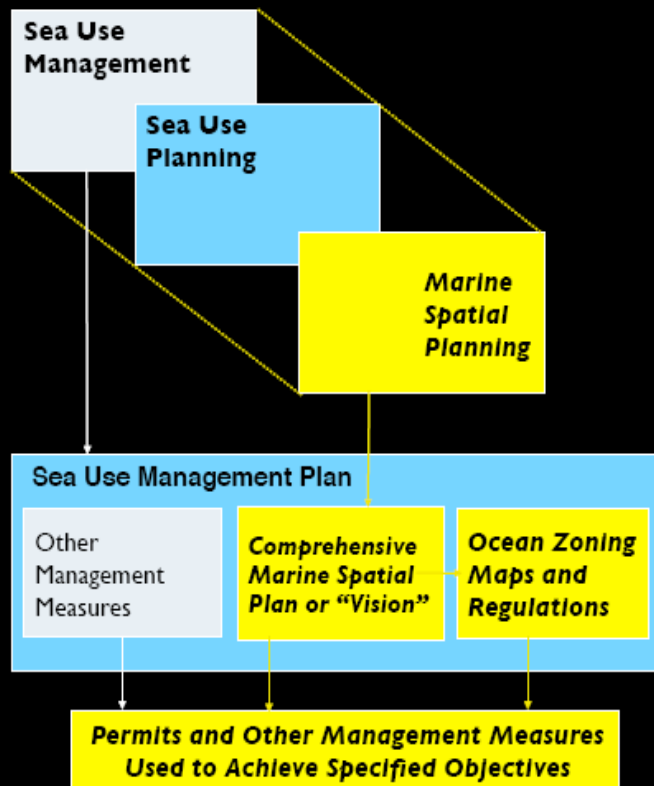
- Rise of new offshore activities (e.g., wind energy, wave energy, aquaculture)
- Expansion of existing offshore activities (e.g., maritime transport, resource extraction)
- Increasing demand for space = conflicts & compatibilities
- Need to find space for nature (e.g., marine protected areas, area closures)



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What Are the Outputs of Integrated Marine Spatial Management?



- “Marine spatial planning” is a sub-activity of the **planning** element of **sea use management**
- The principal output of marine spatial planning is a **comprehensive marine spatial plan** for a marine area or ecosystem (**a vision of the future**), analogous to a comprehensive plan for a terrestrial area or ecosystem
- The comprehensive marine spatial plan is usually implemented through **zoning map(s), regulations, and a permitting system**
- Individual permit decisions can then be based on the zoning maps and the marine plan



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Toward integrated management

Marine Spatial Planning

↕

Marine Transportation

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Economic Development

↕

Energy

↕

Environmental Quality

↕

Marine Protected Areas

↕

Sand & Gravel Mining

↕

Fisheries

↕

Aquaculture

↕

Military



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What Are We Doing?

- **Documenting good MSM practice** around the world
- **Developing guidelines** for marine managers to implement ecosystem-based marine spatial management
- **Testing the guidelines** in two marine places
- **Developing a practitioner-focused MSM website** for outreach to the international community
- **Organizing an international community** of MSM experts



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C/4 – C/5: Leveraging scientific knowledge for the management and sustainable use of natural resources, with special emphasis on fresh water and oceans + Contributing to disaster preparedness and mitigation



MAB - Environmental Protection and Sustainable Development – Focus on Local Territorial Systems



The MADRID ACTION PLAN



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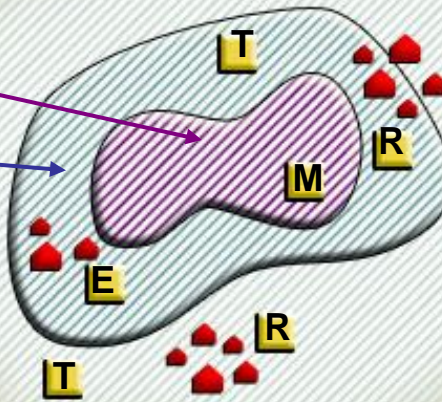
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THE BIOSPHERE RESERVE MODEL

Biosphere Reserve Model

- ◆ Core area(s)
- ◆ Buffer zone(s)
- ◆ Transition area(s)



- R** Research station or experimental research site
- M** Monitoring
- E** Education/training
- T** Tourism



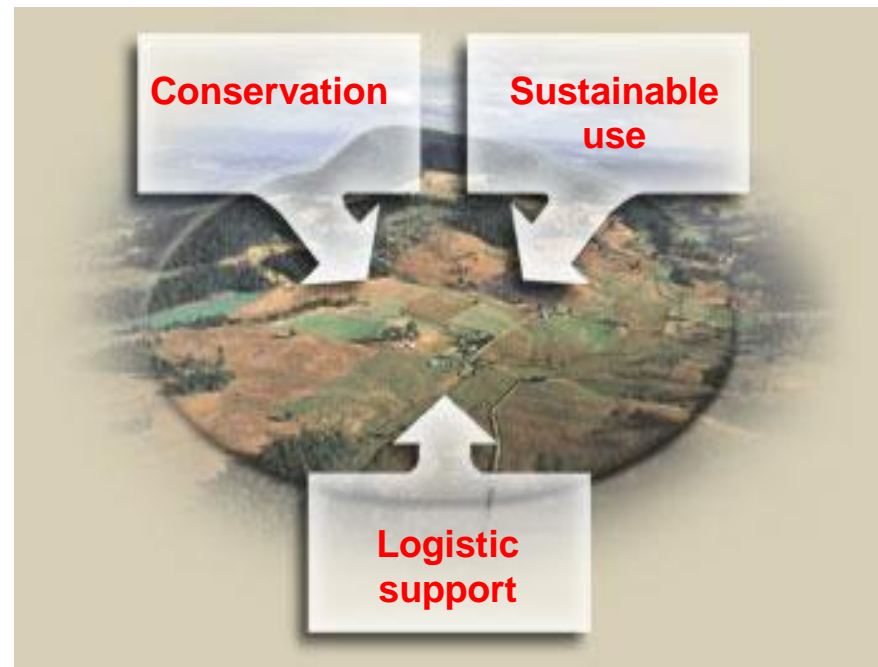
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THE BIOSPHERE RESERVE MODEL

- ✓ **Conservation in situ of natural and semi-natural ecosystems / landscapes**
- ✓ **Demonstration areas for ecologically and socio-culturally sustainable use;**
- ✓ **Logistic support for research, monitoring, education, training and information exchange**





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THE BIOSPHERE RESERVE MODEL

- ☑ **There is a need to work at 3 different and well articulated levels:**
 - **LOCAL: Feasibility of Sustainable Development (demonstration that the “model” works);**
 - **NATIONAL: Connection to Physical/Marine Planning and SD Policies;**
 - **INTERNATIONAL: Promotion of the model (Guidelines, contribution to Legal Instruments).**



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THE BIOSPHERE RESERVE MODEL

- We have therefore 3 different targets:**
 - **LOCAL POPULATION/STAKEHOLDERS: Benefits of Sustainable Development;**
 - **RESEARCHERS/NETWORKS: Uniqueness of a territorial/marine experimental network;**
 - **POLICY MAKERS: The ultimate impact we look for is outside the BR network (influencing/inspiring policies and plans).**



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programme
and its World Network of

Biosphere Reserves

Coastal
and marine
biosphere
reserves
in Europe





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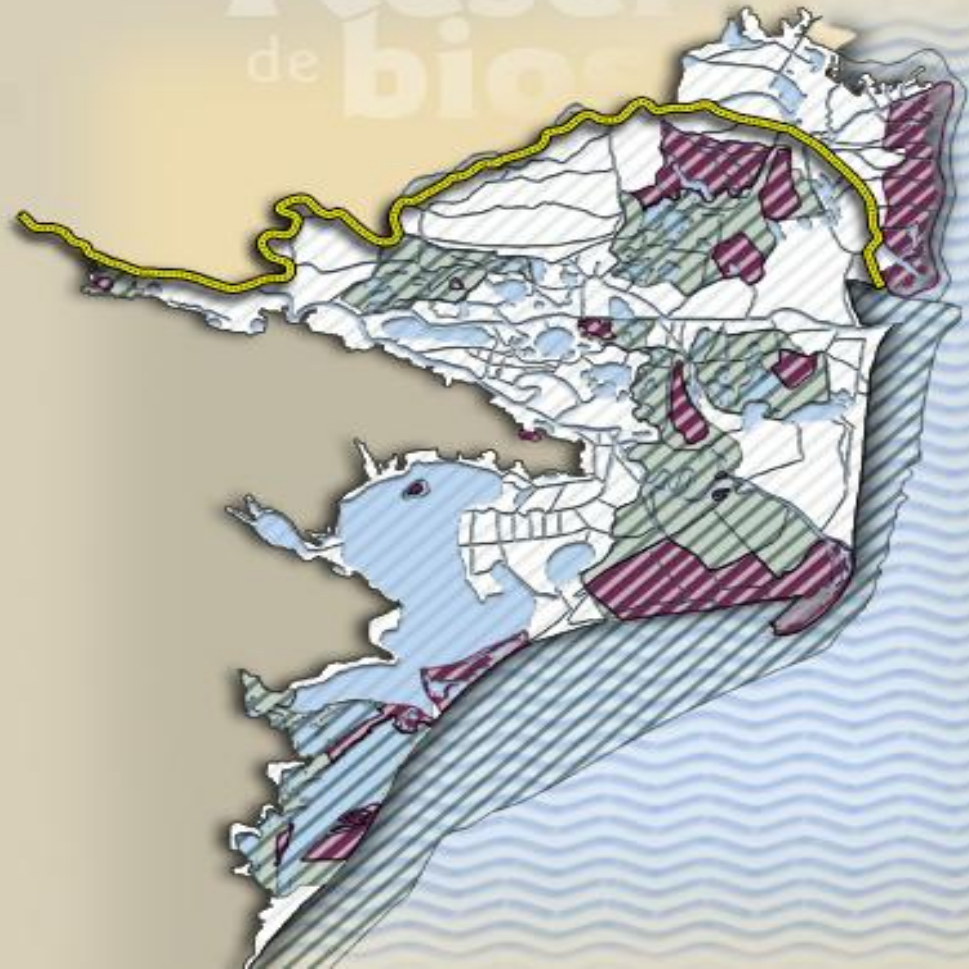


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programme MAB
et son Réseau mondial de

Réserves de biosphère

THE DANUBE DELTA





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omme **MAB**
et son Réseau mondial de

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LANZAROTE

O C É A N O A T L Á N T I C O

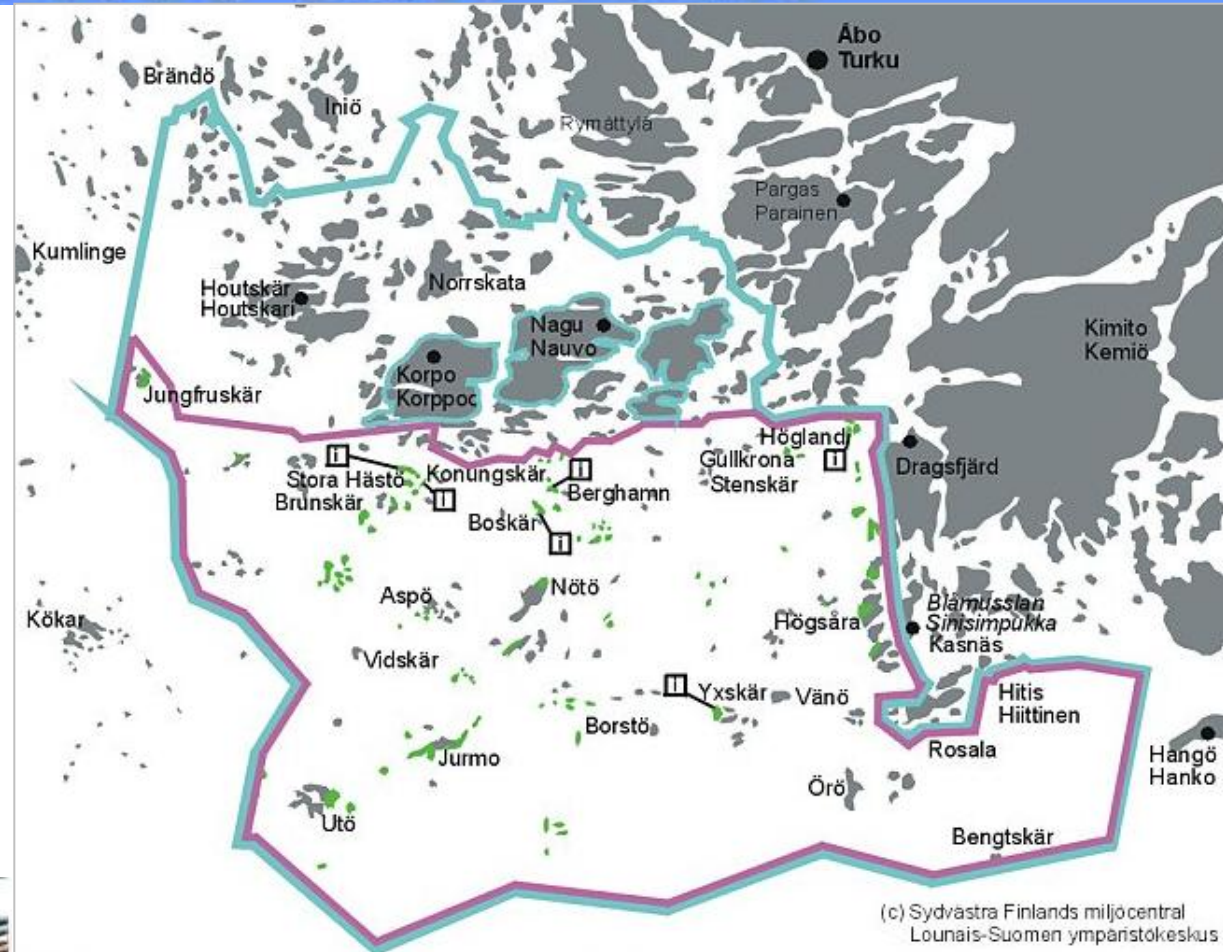




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ARCHIPELAGO



(c) Sydvästra Finlands miljöcentral
Lounais-Suomen ympäristökeskus



- Nationalparken/biosfärområdets kärnområde
Kansallispuisto/biosfäärialueen ydinalueet
- Biosfärområdets gräns
Biosfäärialueen ulkoraja
- Informationspunkt
Opastuspiste
- Samarbetsområdet för Skärgårdshavets nationalpark
Saaristomeren kansallispuiston yhteistoiminta-alue



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EXPERIENCING MSP IN A THEMATIC NETWORK

Some suggestions:

- **Select a set of coastal/marine MAB BRs with complementary environmental/development issues;**
- **Associate Planning Institutions and experts;**
- **Be politically relevant (EU Marine Strategy Framework Directive (2008/56/CE) , Adriatic Sea Initiative, MAP);**
- **Links with the Master Course: internships at BRs...**