An Approach to Marine Spatial Planning Steps

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Identifying existing/Potential uses

Sectoral Needs for MSP
Distribution of Resource depends on many factors like
- Habitat
- Salinity
- Depth

Fishers will allocate effort to more profitable fishing grounds

Other factors in effort allocation include operational cost, fuel prices

Aquaculture site need
- Clean Water
- Depth

Issues
- Pollution
- User conflicts
Identifying existing/Potential uses

Detecting ecological-economic effects of marine spatial plans from displacing the bottom fishing pressure

Thoya et al 2015

Effect of Creation of two areas for Wind power and MPAs on fisheries economy and Benthos
Identifying existing/Potential uses

Sectoral Needs for MSP: Tourism

- Tourism Activities
  - Diving
  - Snorkelling
  - Underwater cultural heritage

- Issues
  - Pollution
  - User conflicts

- Other factors
  - Pollution from Tourism
Sectoral Needs for MSP: Oil and Gas

- Strong Component of Maritime Economy
- Land/Sea Connection
- Spacial Use of Maritime Space
- Long Time Exploitation Facilities
- Underwater Cable Network
- Interaction with Other Sector S
## Identifying existing/Potential uses

### Sectoral Needs for MSP:

<table>
<thead>
<tr>
<th>Shipping and ports</th>
<th>Pipelines and cables</th>
<th>Fishing</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Continuous use of ports and harbours in supply, maintenance and hydrocarbon transfer.</td>
<td>• Offshore oil and gas production represents the main demand for the installation and operation of pipelines.</td>
<td>• Displacement of fishing activity from the installation during operation and decommissioning from a 500m safety exclusion zone, and temporary potential displacement during the installation of pipelines.</td>
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<tr>
<td>• Exclusion of shipping from a safety zone around infrastructure.</td>
<td>• Installation of new infrastructure needs to consider existing pipelines and cables to ensure that these aren't affected.</td>
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<td>• Decommissioning activities will require greater shore-based facilities for the dismantling of offshore rigs and platforms.</td>
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<tr>
<th>Marine aquaculture</th>
<th>Offshore wind and marine renewables</th>
<th>Conservation</th>
</tr>
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<tbody>
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<td>• Potential competition in demand for space development, although only where the resources are available for both types of development.</td>
<td>• Potential competition in demand for space development, although only where the resources are suitable for both types of development.</td>
<td>• Potential for ecological interactions, particularly during seismic use in exploration and associated disturbance of marine mammals. Oil spills are of increasingly low risk, but with significant potential ecological consequences, depending on the location and timing of the incident. This includes particularly coastal areas of conservation importance and which may be sensitive, such as saltmarsh.</td>
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<tr>
<td>• Where suitable, and if technological and regulatory hurdles can be addressed, co-location of aquaculture facilities with existing oil and gas infrastructure may be possible.</td>
<td>• Potential for installing offshore wind turbines on existing or decommissioned infrastructure.</td>
<td>• Offshore installations have the potential to provide protected habitat in the form of artificial reefs, which can support associated biota.</td>
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<td></td>
<td>• Synergies may take place in terms of supply chain services, grid connection and R&amp;D efforts.</td>
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</tbody>
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https://www.msp-platform.eu/sectors#
Identifying existing/Potential uses

Sectoral Needs for MSP: Oil and Gas
7

Identifying existing/Potential uses

Sectoral Needs for MSP: Ocean Science and Research

GROWING SPATIAL AND TEMPORAL CHANGES ON COAST AND SEA

CLIMATE CHANGE

MULTIPLE USE OF MARINE SPACE

RESEARCH INSTITUTION

POLICY SUPPORT

INTERACTION WITH OTHER SECTORS
Identifying existing/Potential uses

Sectoral Needs for MSP: Ocean Science and Research