



MPA Europe Black Sea Regional Stakeholder workshop

20th June 2024, Varna

In collaboration with:




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MPA Europe Black Sea Regional Stakeholder workshop

OUTLINE

- MPA Europe goals and results to date (25 min)
- Q&A session (15 min)
- OPEN DISCUSSION (60 min)
- Wrap-up (5 min) + shared short report post-workshop

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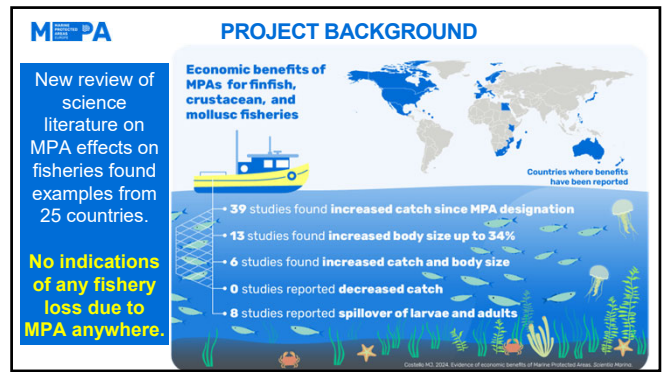
MPA Europe: Goals and Results to date

Mark J. Costello, Nord University (NORD, Norway)



The MPA Europe project is co-funded by the European Union under the Horizon Europe program (grant agreement no. 101059998).

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PROJECT BACKGROUND

New review of science literature on MPA effects on fisheries found examples from 25 countries.

Economic benefits of MPAs for finfish, crustacean, and mollusc fisheries



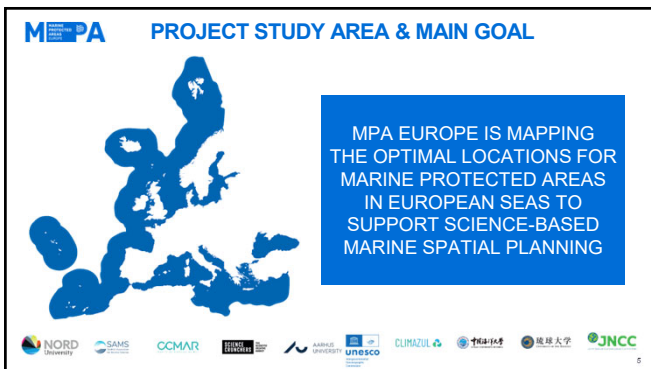
Countries where benefits have been reported

- 39 studies found **increased catch** since MPA designation
- 13 studies found **increased body size up to 34%**
- 6 studies found **increased catch and body size**
- 0 studies reported **decreased catch**
- 8 studies reported **spillover of larvae and adults**

No indications of any fishery loss due to MPA anywhere.

Costello MJ, 2018, Evidence of economic benefits of marine protected areas. Science Advances

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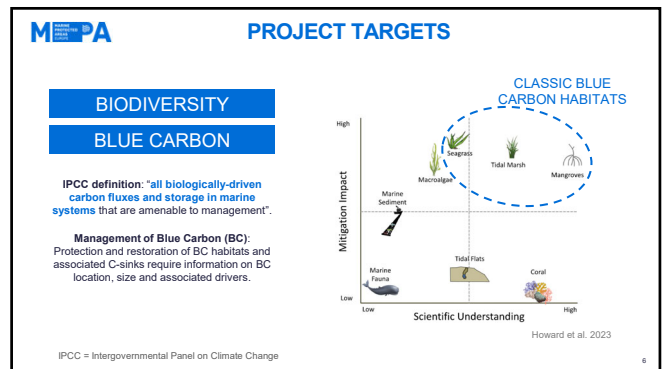
PROJECT STUDY AREA & MAIN GOAL

MPA EUROPE IS MAPPING THE OPTIMAL LOCATIONS FOR MARINE PROTECTED AREAS IN EUROPEAN SEAS TO SUPPORT SCIENCE-BASED MARINE SPATIAL PLANNING



Logos: NORD University, SAMS, CCMAR, Centro Oceanográfico de Vigo, Aarhus University, UNESCO, CLIMAZUL, 中国科学院, 海洋大学, JNCC

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PROJECT TARGETS

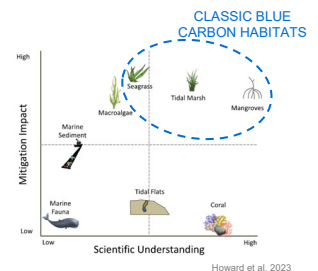
BIODIVERSITY

BLUE CARBON

IPCC definition: "all biologically-driven carbon fluxes and storage in marine systems that are amenable to management".

Management of Blue Carbon (BC): Protection and restoration of BC habitats and associated C-sinks require information on BC location, size and associated drivers.

CLASSIC BLUE CARBON HABITATS



High Mitigation Impact

Low Mitigation Impact

Low Scientific Understanding

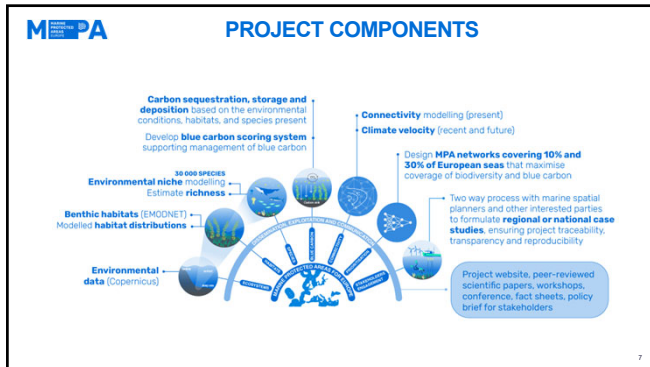
High Scientific Understanding

Habitats: Marine Sediment, Macroalgae, Seagrass, Tidal Marsh, Mangroves, Tidal Flats, Coral, Marine Fauna.

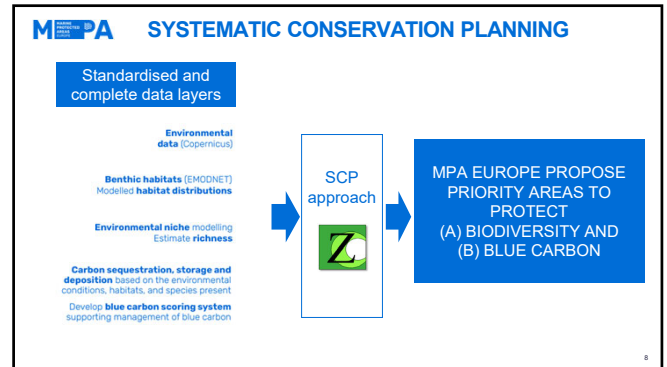
IPCC = Intergovernmental Panel on Climate Change

Howard et al. 2023

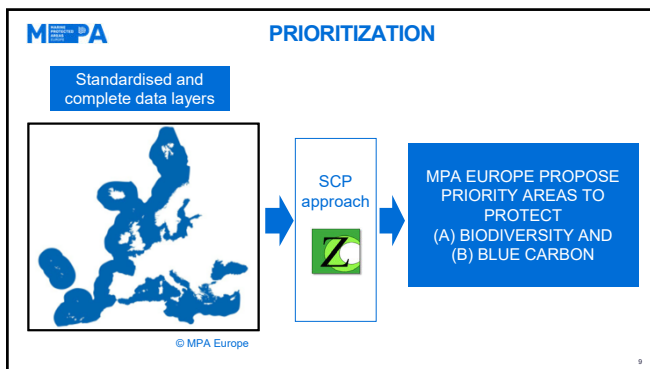
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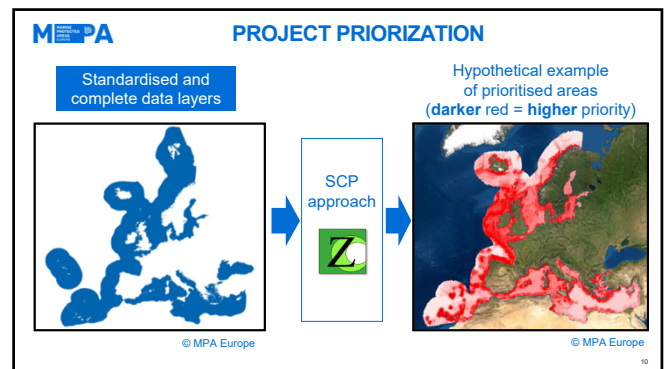
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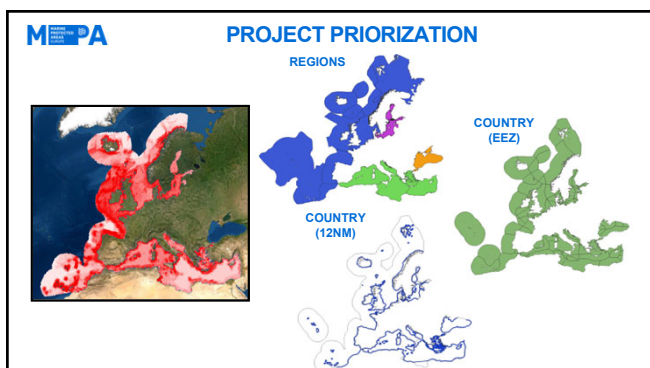
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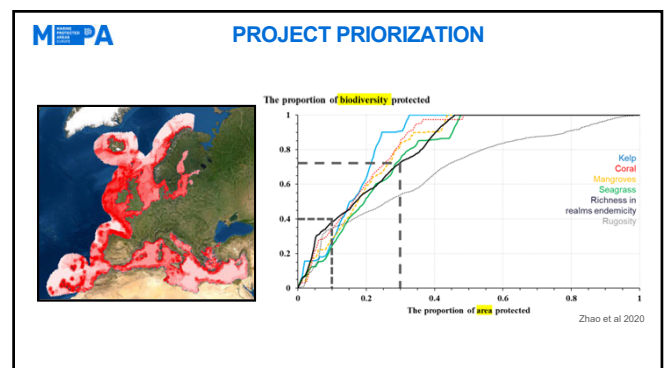
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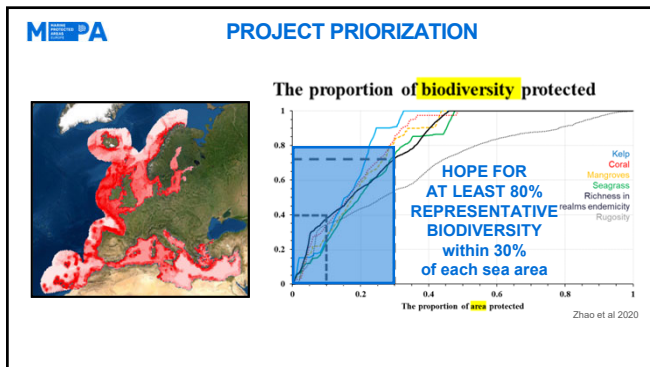
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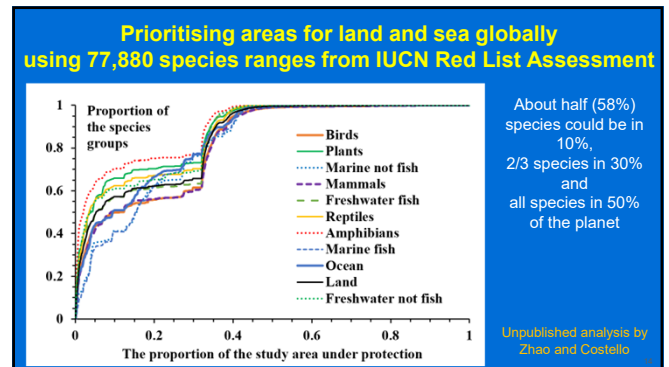
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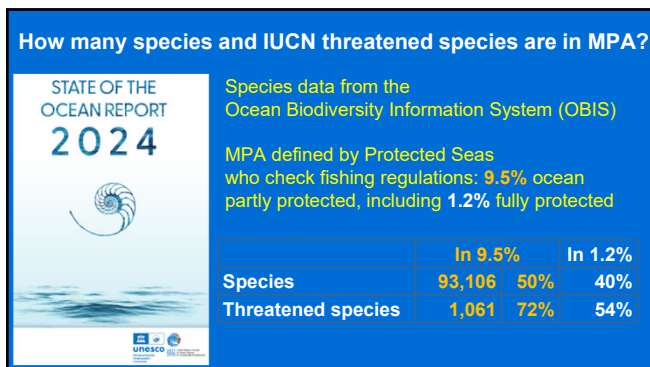
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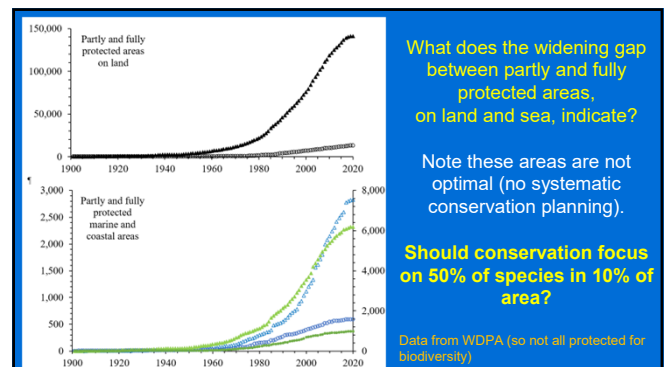
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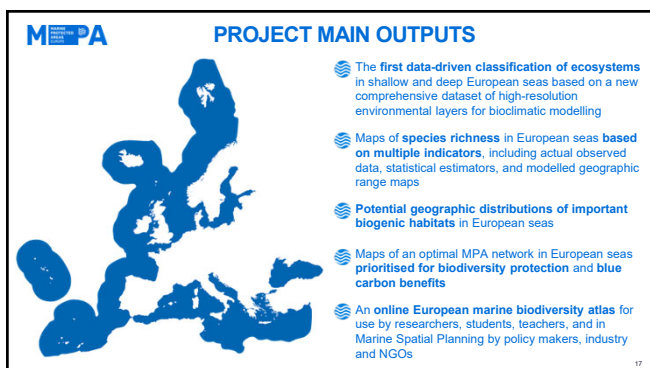
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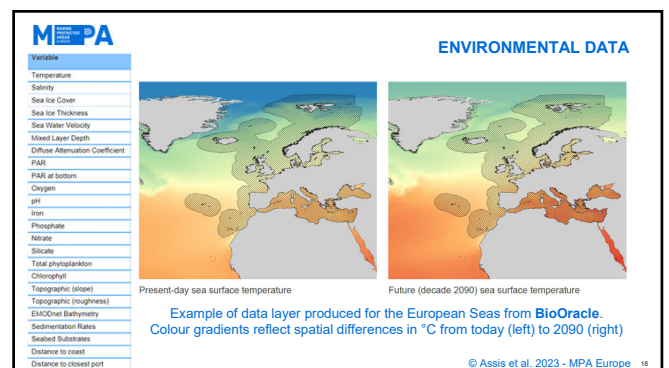
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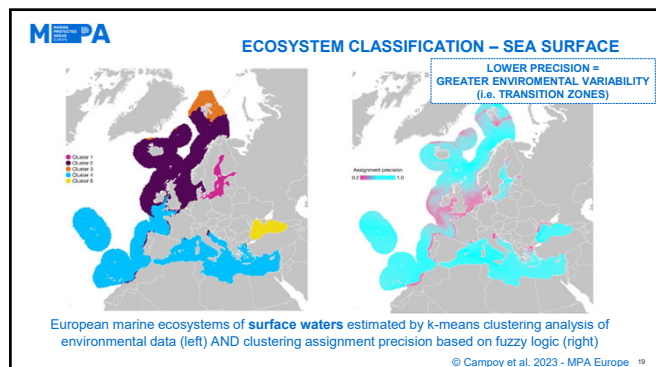
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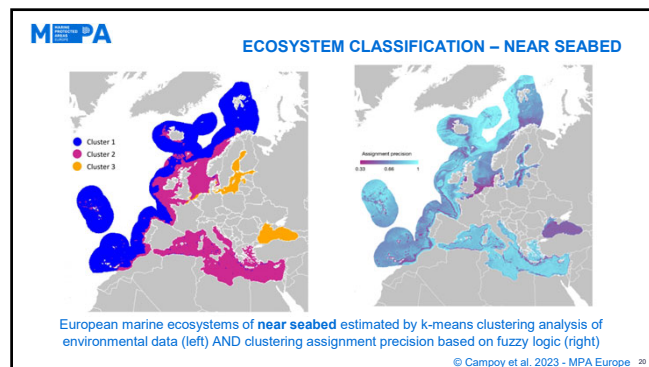
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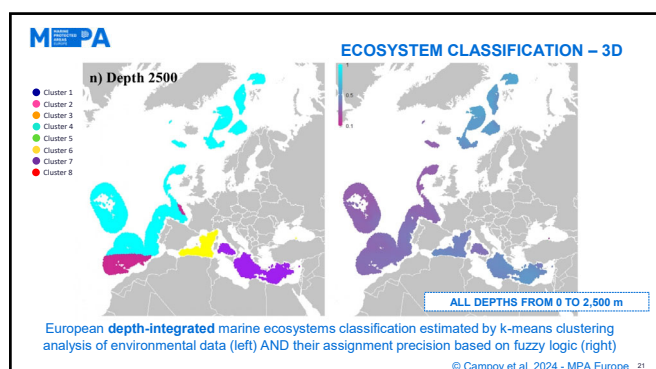
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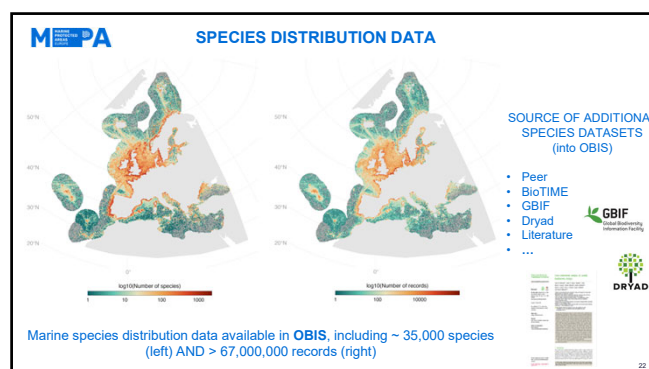
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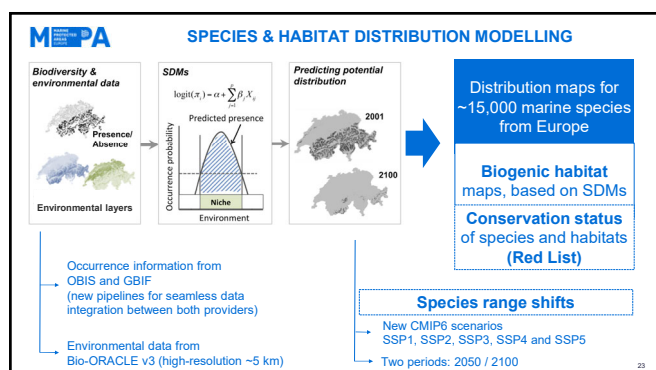
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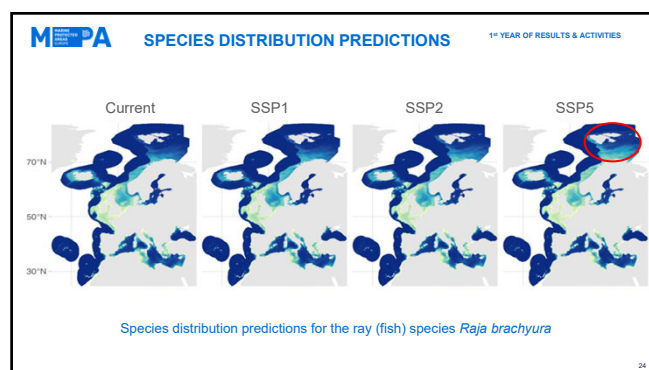
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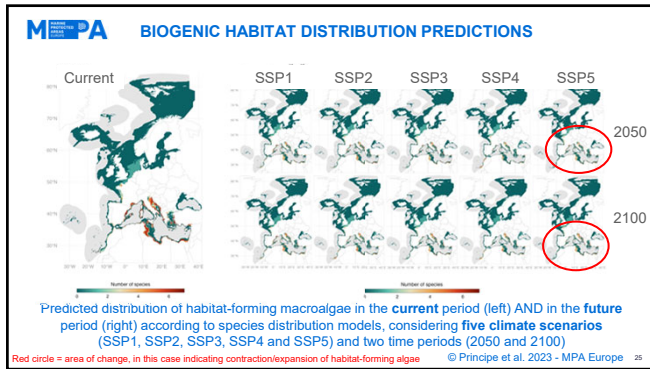
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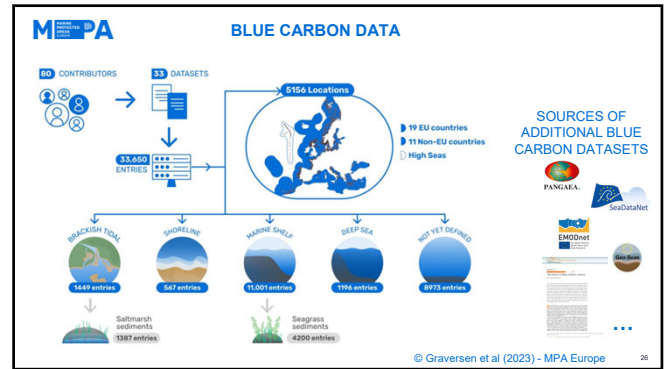
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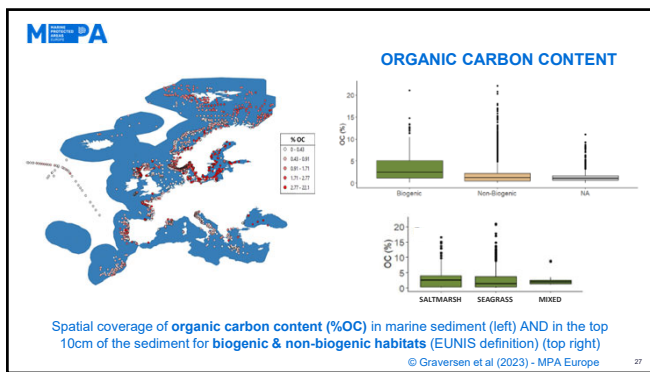
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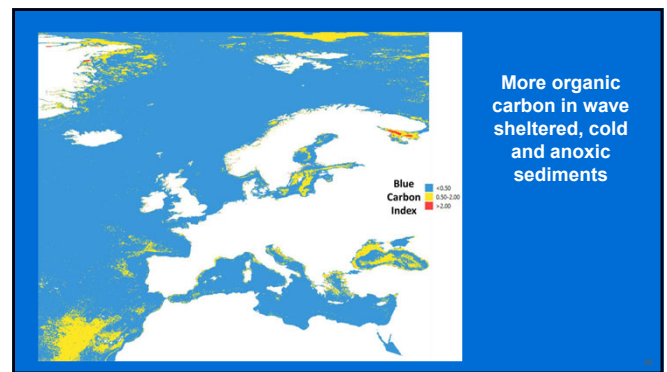
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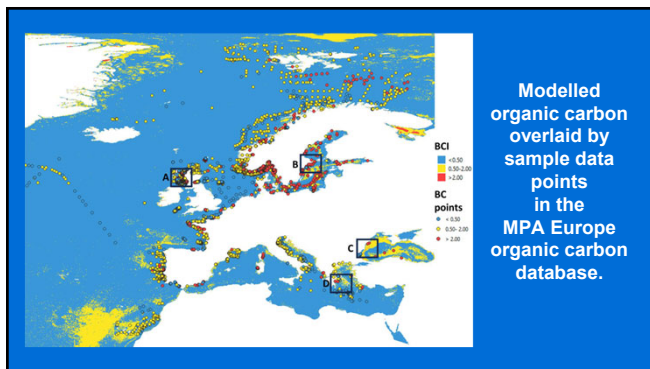
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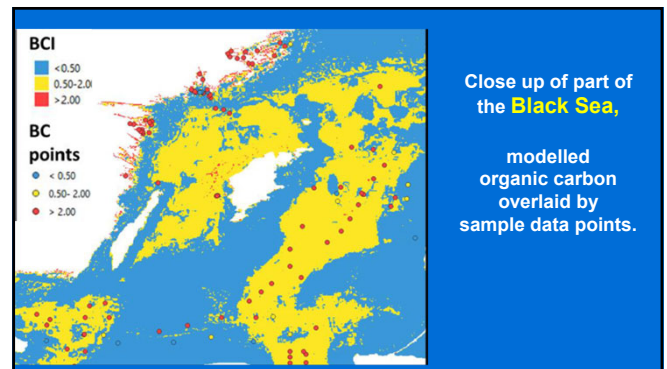
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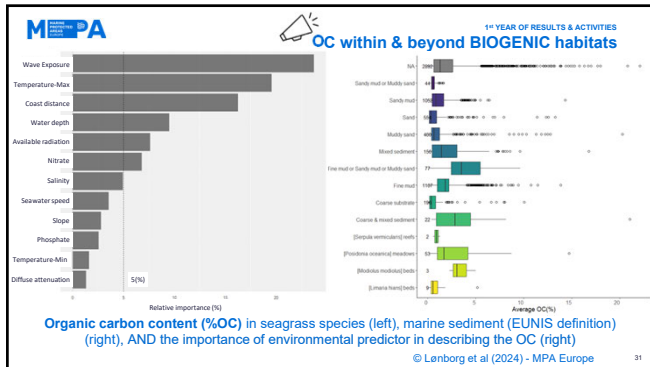
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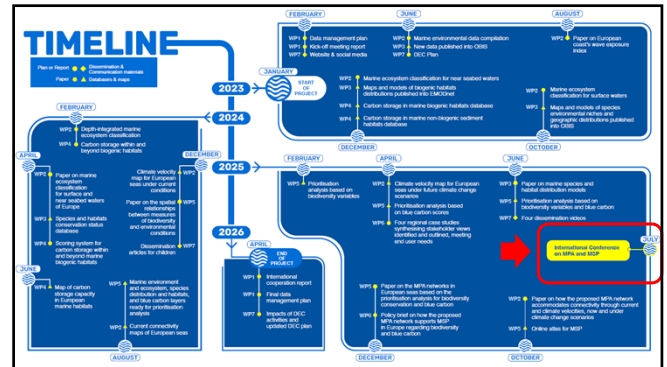
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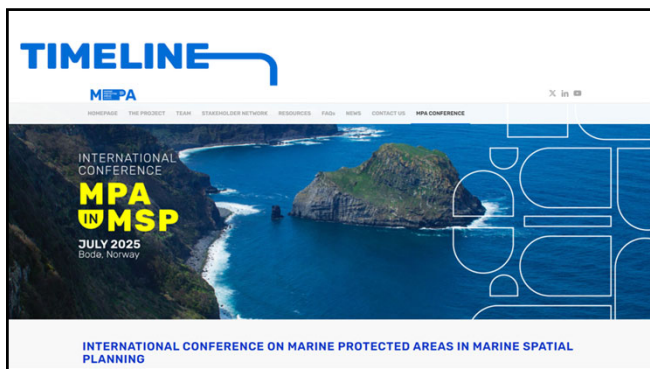
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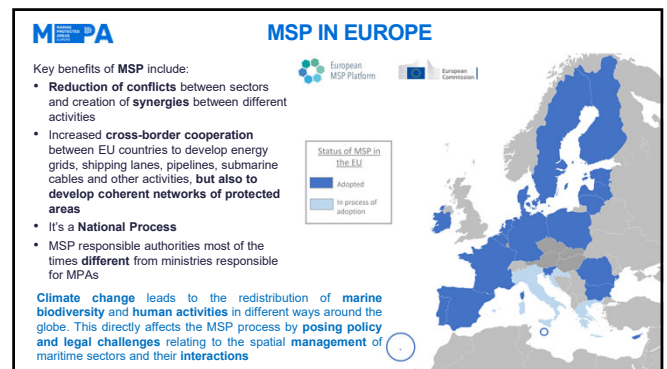
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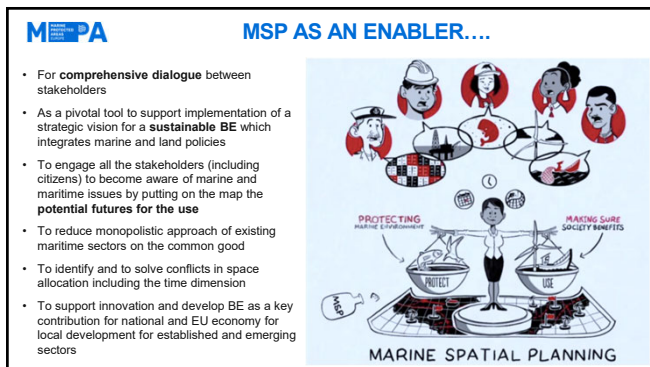
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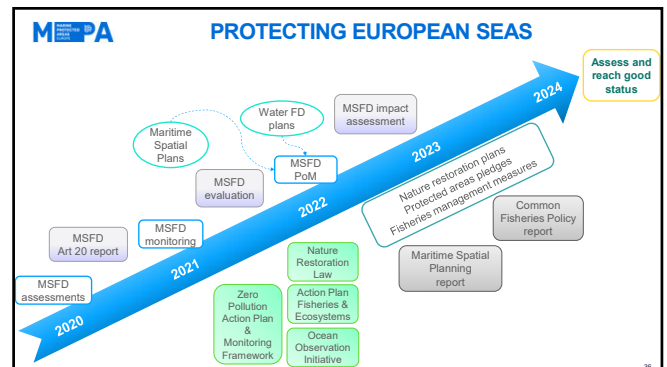
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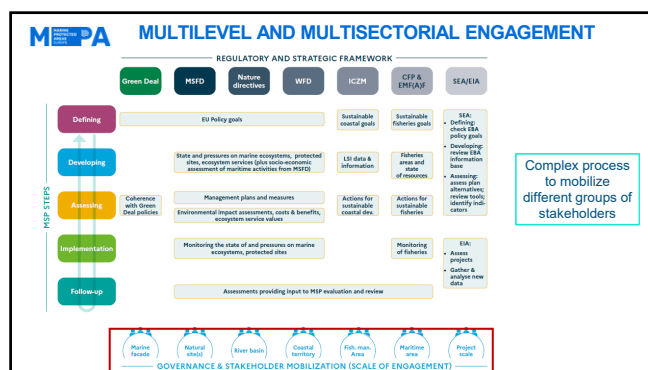
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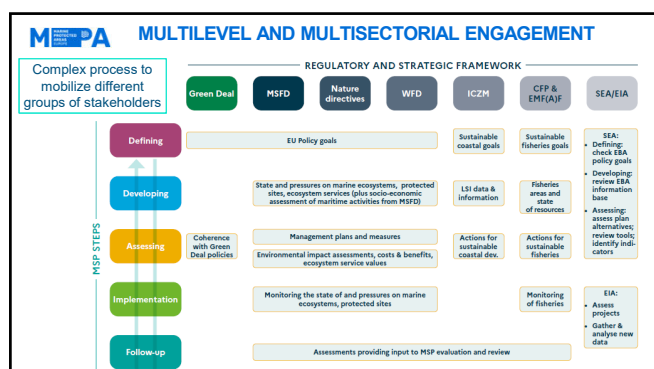
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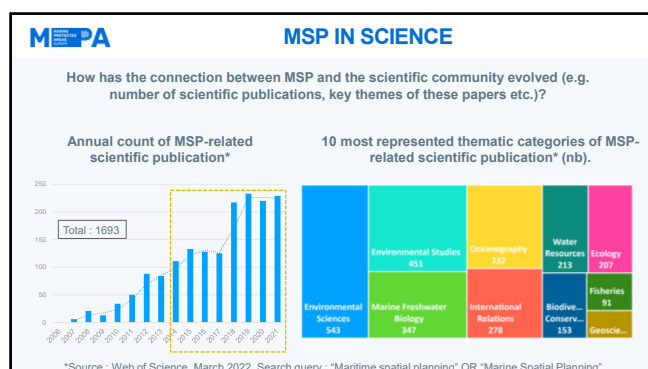
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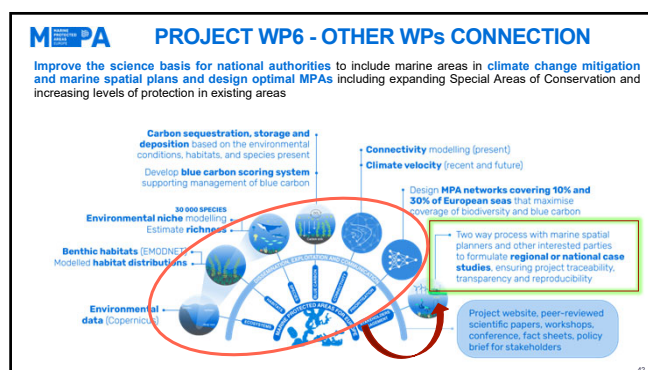
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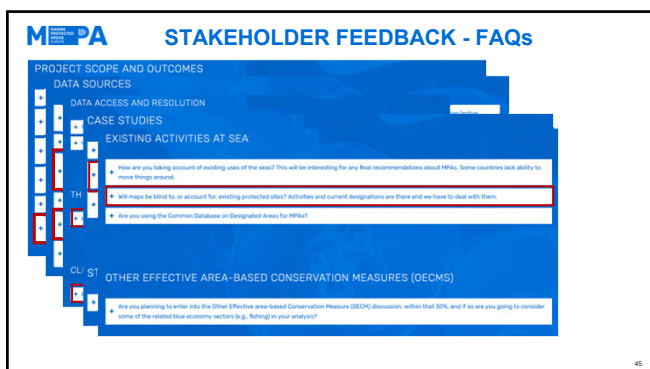
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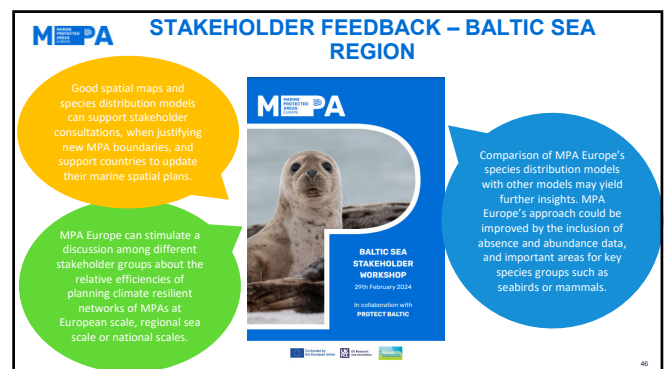
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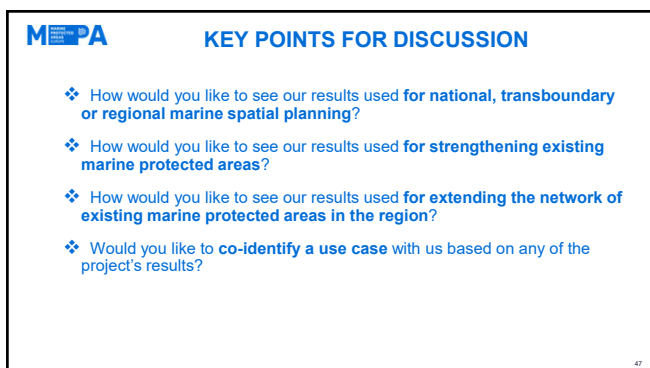
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