

 eOSC | Blue-Cloud2026

**Participatory tools and services for
supporting sustainable ocean
management and planning**

Alessandro Sarretta (CNR)

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Session “Supporting Marine Spatial Planning with data and services”

Participatory tools and services to support sustainable ocean management and planning

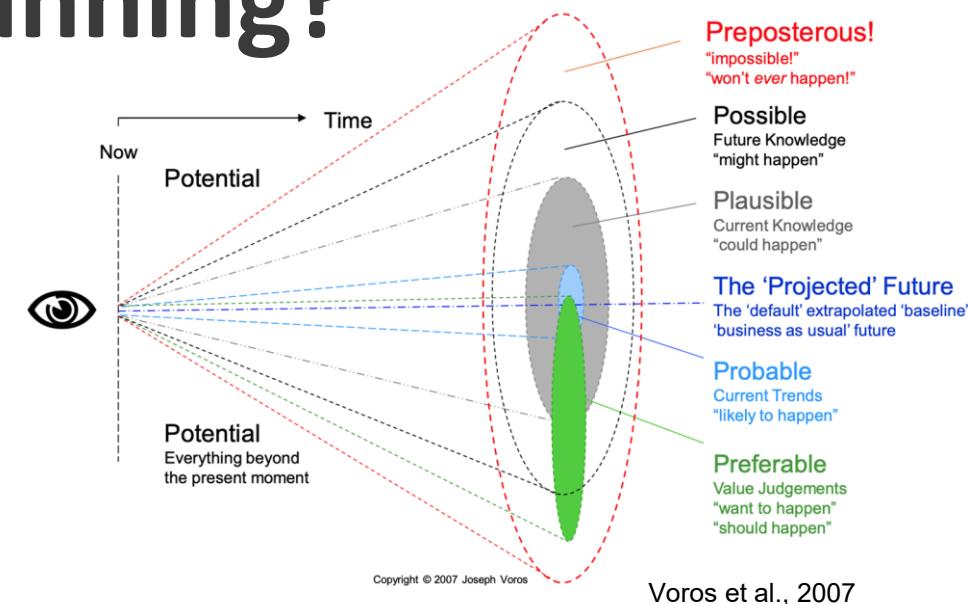
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What is Maritime Spatial Planning?

Maritime Spatial Planning (MSP) is a **collaborative process** aimed at analysing and **organising multiple human activities** in marine areas to achieve ecological, economic and social objectives.

MSP is a **data-intensive process** that requires the **integration** of diverse and heterogeneous datasets, from environmental to socio-economic information.



Voros et al., 2007



"A crowded ocean under a changing climate".

Cartoon created by visual artist Bas Kohler. Frazao-Santos et al. 2020, Nature Sustainability

Future scenarios

- MSP develops a plan for a future vision: it is a **future-oriented** activity.
- Exploring different version of the future stimulates discussion and **pro-active decision-making** towards a collectively **desired outcome**.

The Tools4MSP framework

A community based, DTO-oriented suite of **open-source web applications** supporting the development of **marine management** strategies and the analysis of **future scenarios** for MSP.

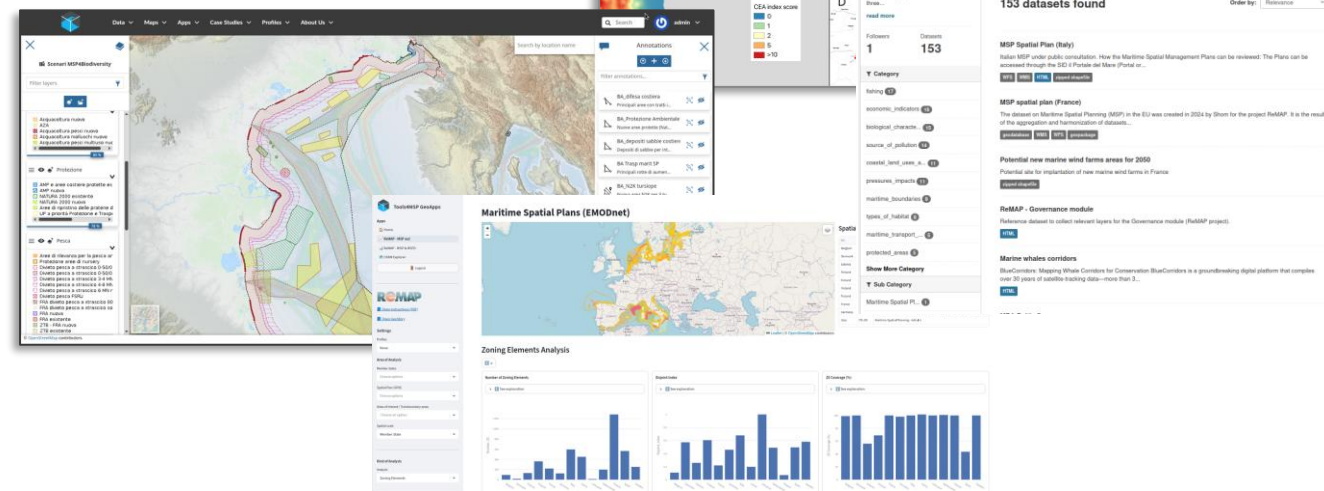
Geoplatform

Web-API

Catalogue

Geo-Apps

GeoStories



Community-based web infrastructure



Designed for collaboration and co-production of knowledge



Data management, organization and sharing (FAIR)



Custom data visualization



Decision Support Tools (CEA, MUC, PMAR)



Scenario building, analysis and geo-data story telling

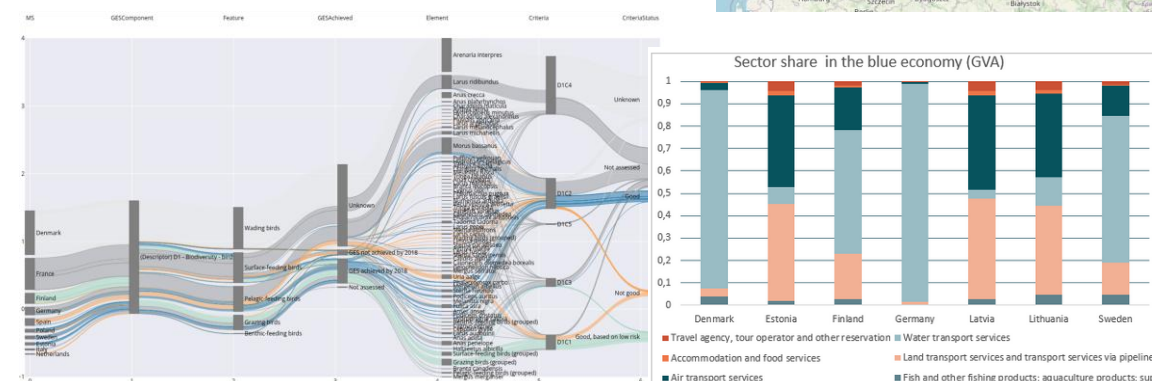
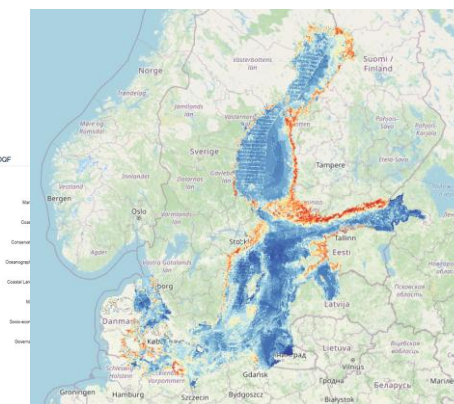
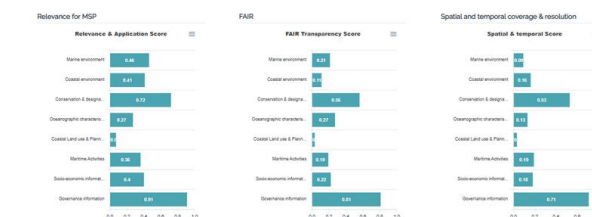
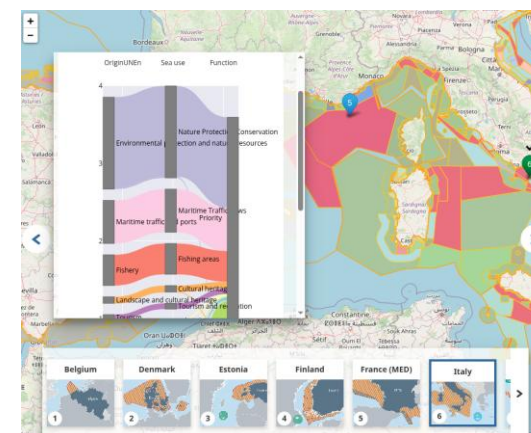
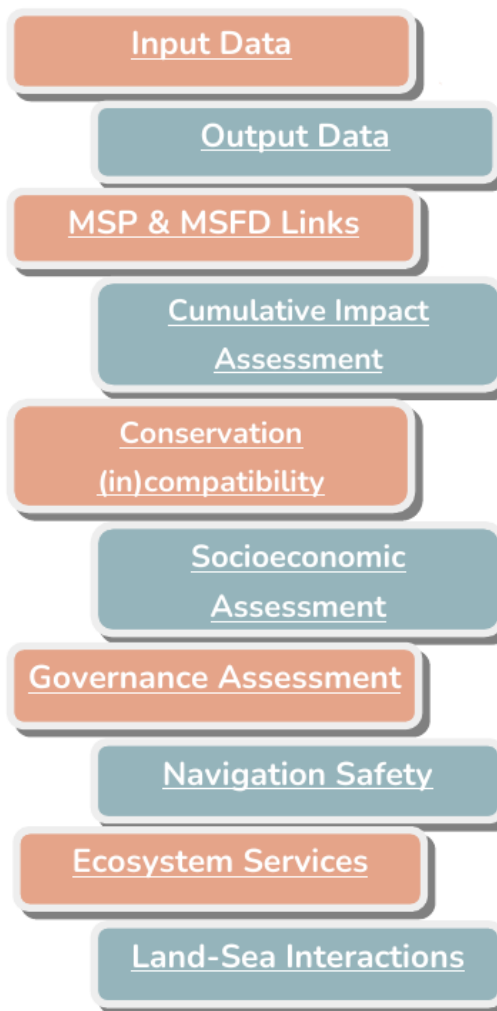
users/stakeholders:

- researchers
- developers
- marine planners
- policymakers
- citizens

ReMAP tools (<http://www.geoportal.ulpgc.es/remap/>)

Reviewing and Evaluating the Monitoring and Assessment of Maritime Spatial Planning

- support of the European MSP process **Monitoring & Evaluation** of MSP plans
- (10+1) modular **simplified analytics**
- Reusing results from **Technical Expert Group on MSP data (TEG)**
- 3 use cases: Baltic Sea, Galicia, North West Med Sea



Thank you!

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