



Managing fisheries in the context of an integrated marine policy: the importance of spatial issues



COFASP
EUROPEAN COMMISSION



Pierre Petitgas, Bruno Ernande, Eider Andonegi, GiannaFabi, Giuseppe Scarcella, Kostas Kapiris, Ana Leocadio

Context

Fisheries management is now impacted by a variety of policies (MSP, MSFD, ...)

1. Fishing impacts fish stocks and other ecosystem compartments, which have now also management objectives
2. Fishing has conflicting interests with other sectors, in terms of space or use of resources
3. Many regulations now affect directly or indirectly fishing activity.

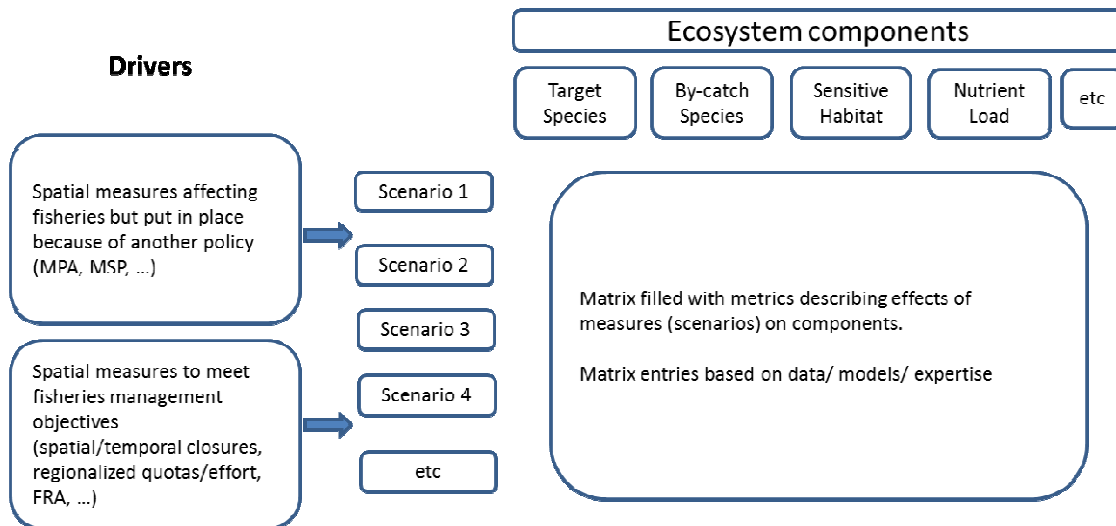
'Integrated' Fisheries management has multiple objectives, requires trade-offs, is place-based and implies other sectorial activities

Spatial management is perceived as a way forward:

1. An ecosystem approach is place-based and calls for a regionalisation of management strategies
2. Spatial management has the potential for being multi-purpose

Challenge

Design and evaluate spatial management strategies that address trade-offs between multiple objectives and sectors



Research needs

1. Management Strategy Evaluation (MSE) for multi-objectives, multi-sectors, spatial management
2. Knowledge on and Evaluation of functional habitats
3. Spatially-explicit end-to-end models with appropriate complexity

Novelty

- MSE for Ocean Management in a spatially-explicit context
- Trade-offs (not optimality) between management objectives, sectors, spatial scales
- Habitats : Understand their ecological functionalities (not just habitat mapping)
 - How these contribute to diversity and productivity of ecosystem components
- Models : Adapt model complexity to operationalize models (end-to-end spatially-explicit)
 - Realistic movement models

Gaps/ Bottlenecks : spatial issues

- Habitat functionalities and scaling to fish populations; Fishing impacts on functionalities
- Movement models for the fish and fishing fleets

Acknowledgements

The poster presents the results of a workshop of the EraNet COFASP on Regionally-Integrated and Spatially-Explicit Fisheries and Ecosystem Management. <http://cofasp.eu/node/1176>