RÉPUBLIQUE FRANÇAISE
Liberté Égalité Fraternité

Ifremer

Université de Bretagne Occidentale

AMURE
CENTRE DE DROIT ET D'ÉCONOMIE DE LA MER

marha
marine habitats

LIFE 16 IPE FR001

NATURA 2000

Life

Three different methods to assess cultural services in French marine protected areas

Pierre Scemama, Frédérique Alban, Charlène Kermagoret, Rémi Mongruel

MSEAS 2024

01.

Introduction

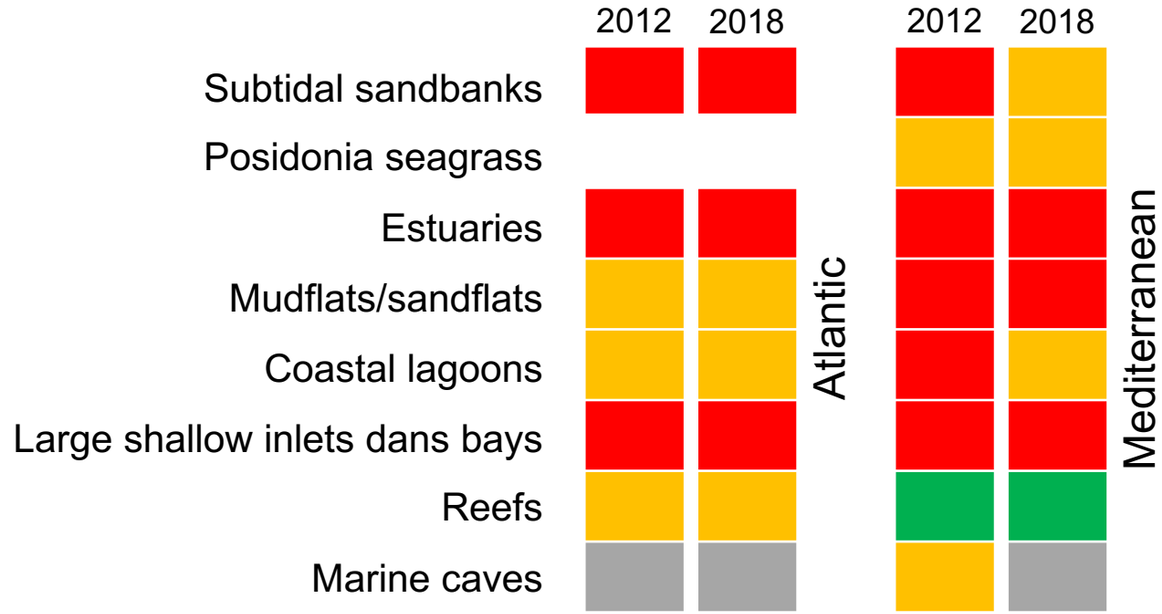
Context

The MarHa project

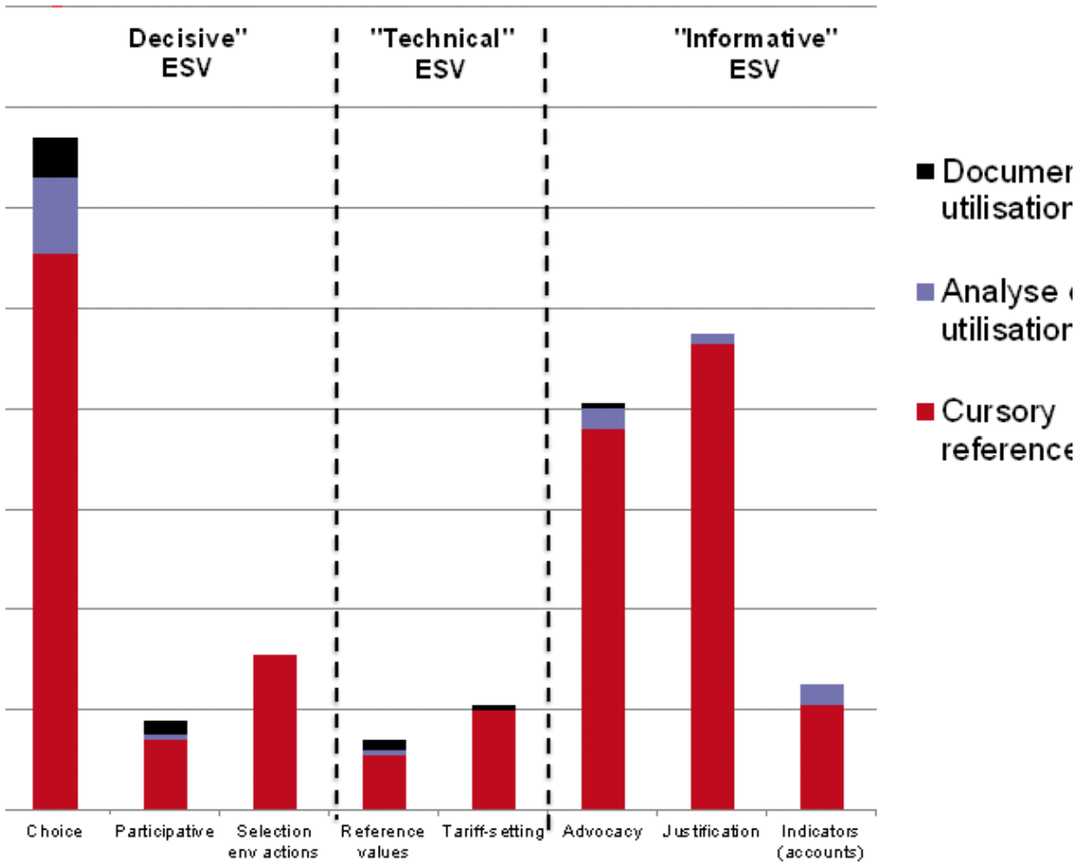
Natura 2000 network: 162 marine protected areas in metropolitan France.

The restoration and maintenance of a **favorable conservation state for marine habitats**

→ **Strong operational scope**



Context



Laurans et al. 2013

Lack of opperational impact of ecosystem services assessment

Limited operational scope of ES

Shift from a supply-oriented approach of ES assessment toward a demand-oriented approach

TRIAGE method for a strategic assessment

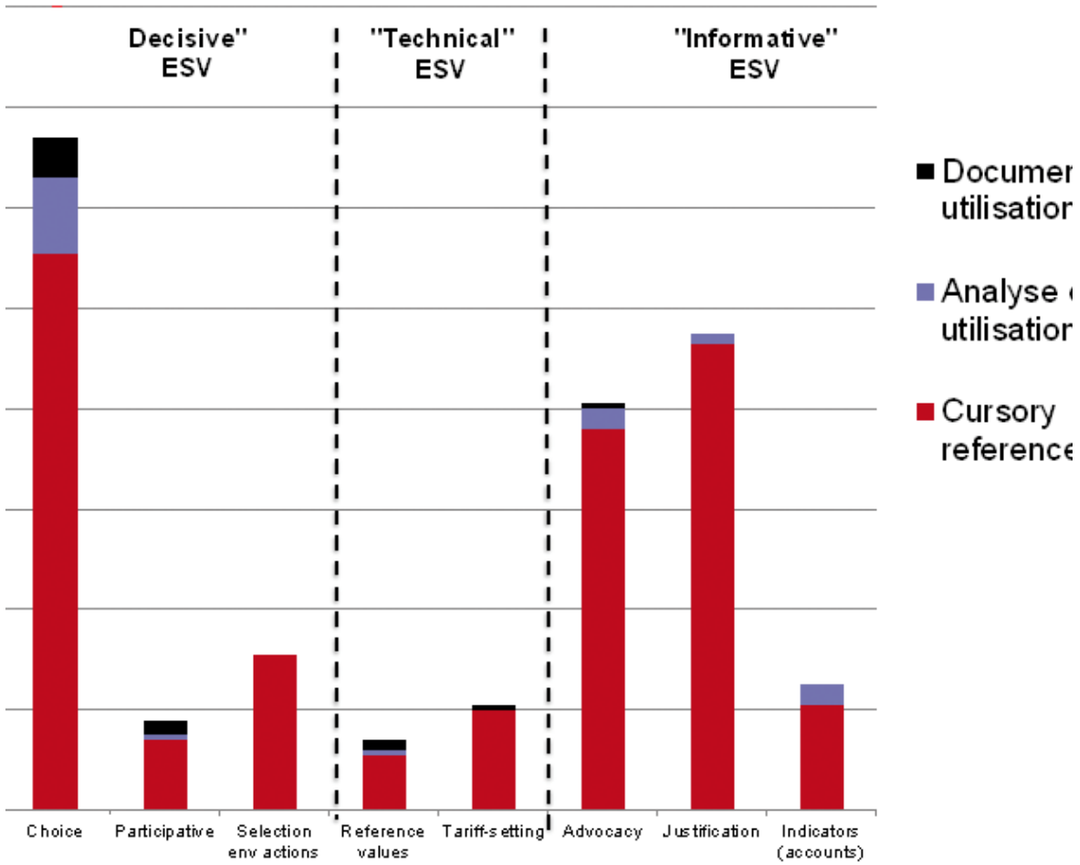
Step 1: Delineating ESA scope & objective
- *1. Why an ESA?*
- *2. What are the issues?*
- *3. What is the scope?*

Step 2: Refining ESA scope via ES hierarchization
- *4. Importance for society*
- *5. Exposure to factor of change*
- *6. Possibility of action*

Step 3: Selecting tools & methods for ESA implementation
- *7. Choice of indicators*
- *8. Choice of method*
- *9. Feasibility of the ESA*

Pendleton et al., 2015; Scemama et al., 2022

Context



Laurans et al. 2013

Limited operational scope of ES

Shift from a supply-oriented approach of ES assessment toward a demand-oriented approach

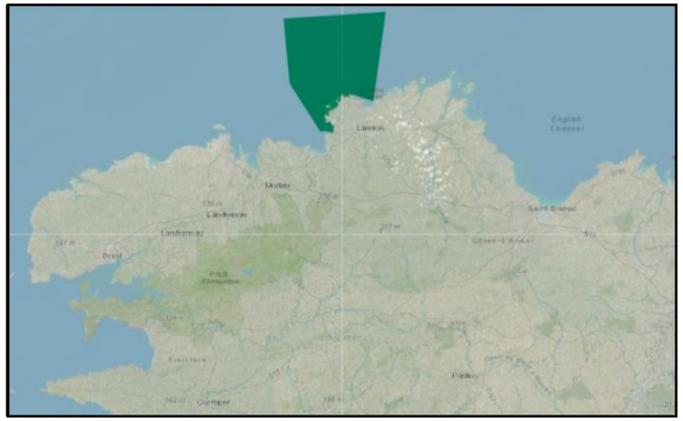
More details on the process?

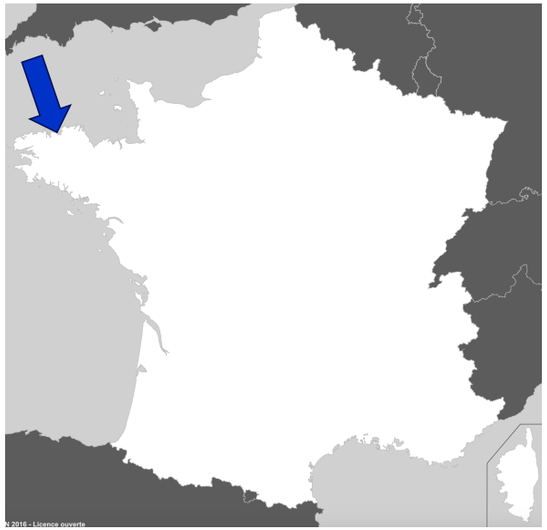
Poster session!!!!

02.

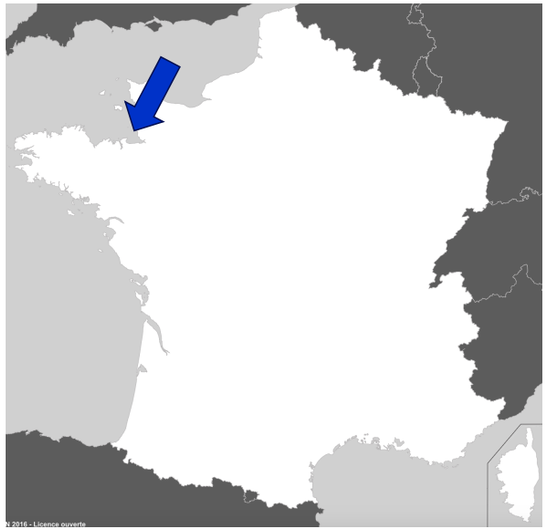
Application to three case studies

Pink Granit Coast

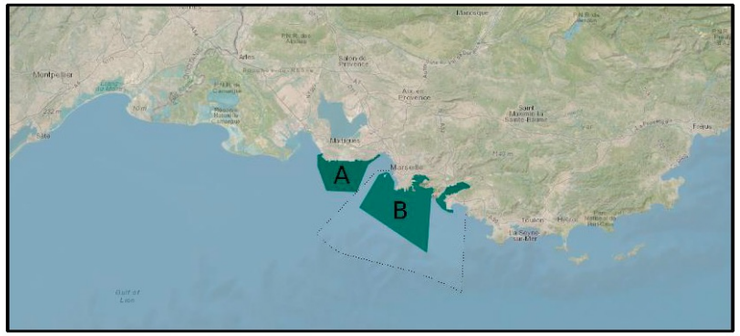


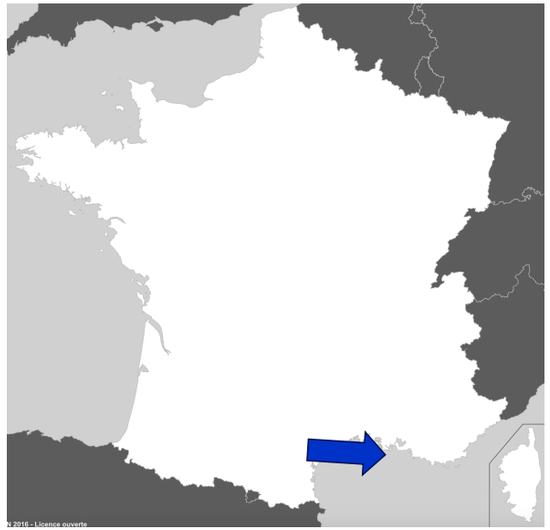


Chausey archipelago

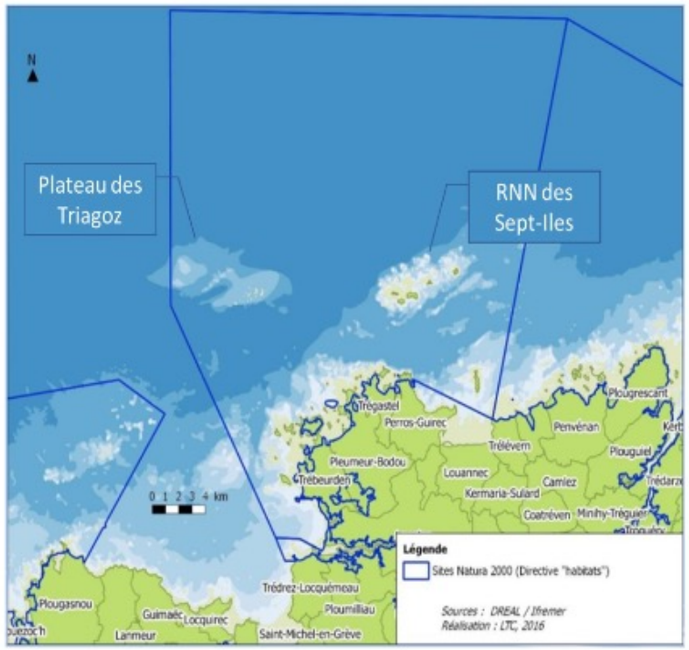


Bay of Marseille





Pink Granit Coast

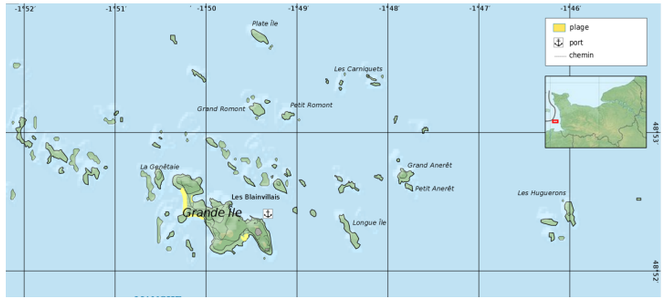


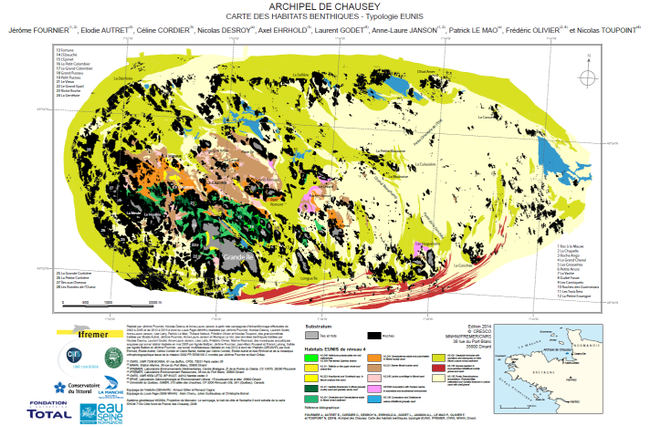
Two overlapping MPA status

74,000 ha (19,700 ha)

Different levels of protection

Chausey archipelago



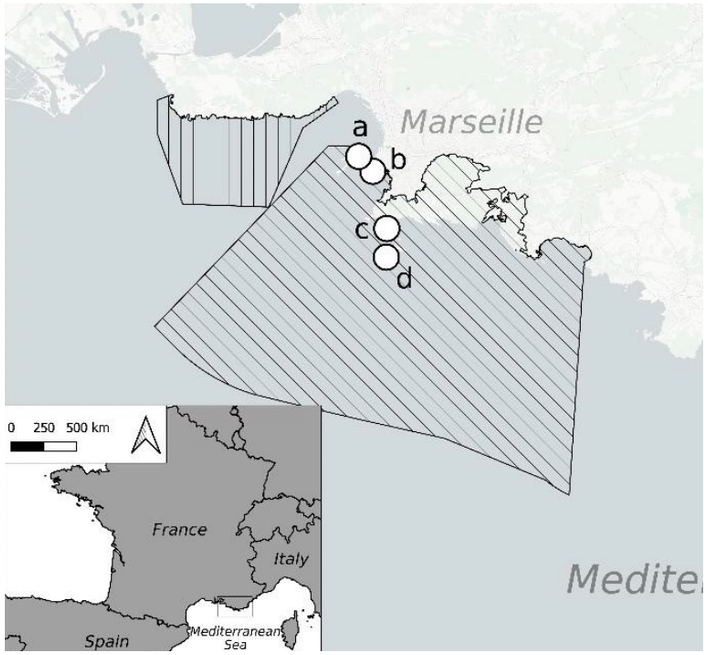


Two overlapping MPA status

86,426 ha (5,000 ha)

Different levels of protection

Bay of Marseille

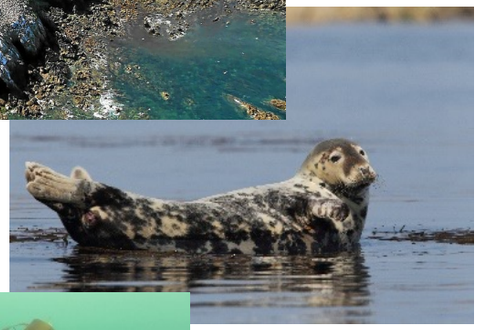
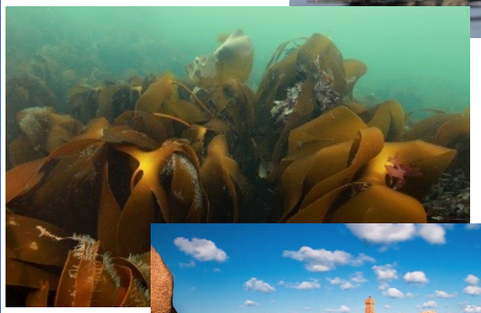


Two MPAs

141,200 ha + 19,000 ha

Multi-use MPA

Pink Granit Coast

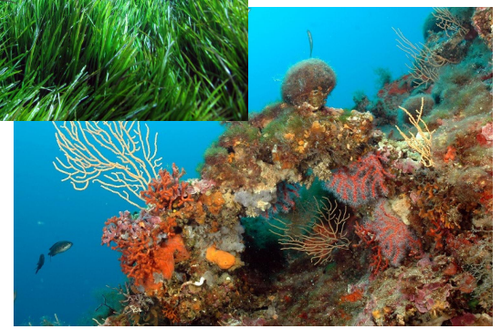





Chausey archipelago




Bay of Marseille



Pink Granit Coast

Chausey archipelago

Bay of Marseille

Pink Granit Coast

Chausey archipelago

Bay of Marseille

TRIAGE approach

Site problematic:
Extension of the nature reserve

Assessment question:
What is the economic impacts of the reserve for the territory?

Site problematic:
Revision of the management plan

Assessment question:
How to manage the number of visitors?

Site problematic:
Integration of ecological knowledge

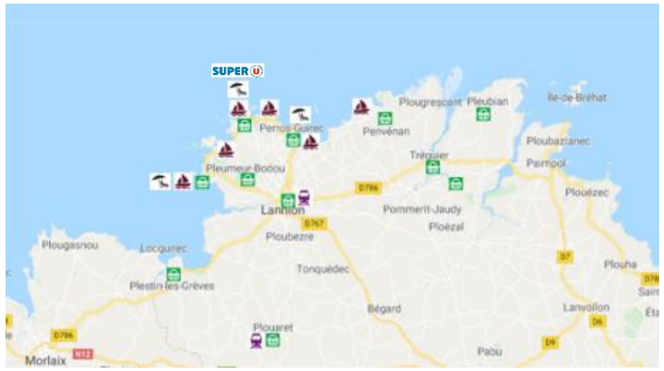
Assessment question:
What is the demand for nature from recreation and tourism?

Pink Granit Coast

Assessment of the economic impact of the reserve in the territory

On field interviews
146 residents et 171 tourists
7 recreational activities

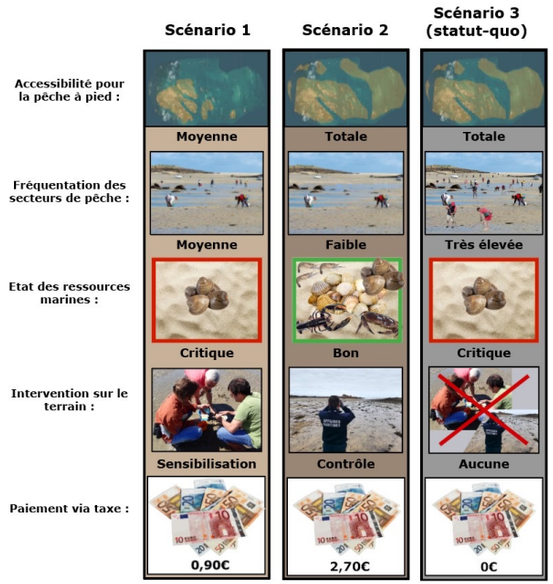
Kayak	Light sailing	Boating	Diving	Apnea	Shore fishing	Hiking



Chausey archipelago

Comparing preferences for different management options

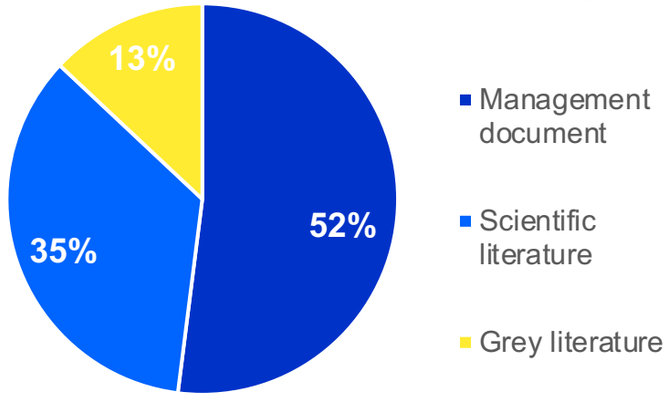
Experimental choice method
Initially field surveys but Covid
Online survey



Bay of Marseille

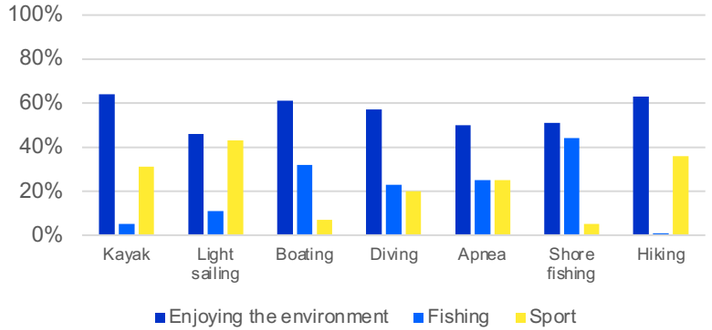
Social demand, an institutional analysis

Analysis of management document between 2000 and 2020



Pink Granit Coast

Understanding the flow of ES



Economic importance of the reserve in the territory

Daily expenses of visitors

Daily expenses depending of the importance of the site into the visit

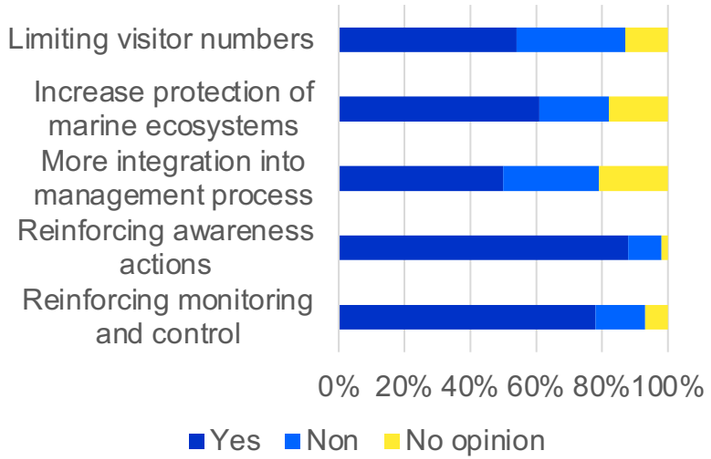
Daily expenses depending on the time enjoying the environment

Economic spinoffs from visitors linked to the ecological quality of the site

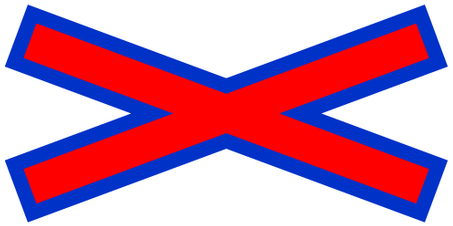
396 M€

Chausey archipelago

Preferences for different options

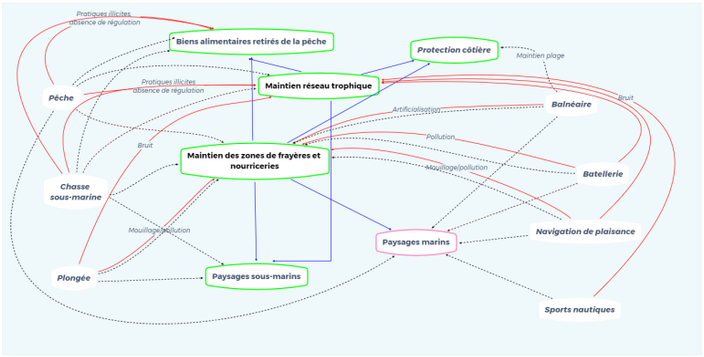


Willingness to pay for different options

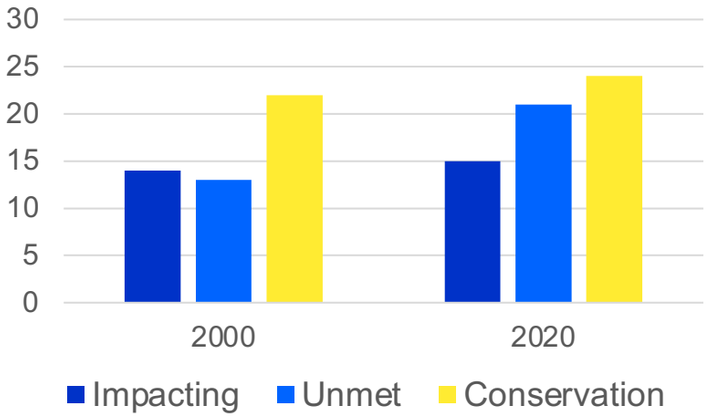


Bay of Marseille

System approach of the demand for ES



Evolution of social demand for ES related to tourism



03.

Conclusion

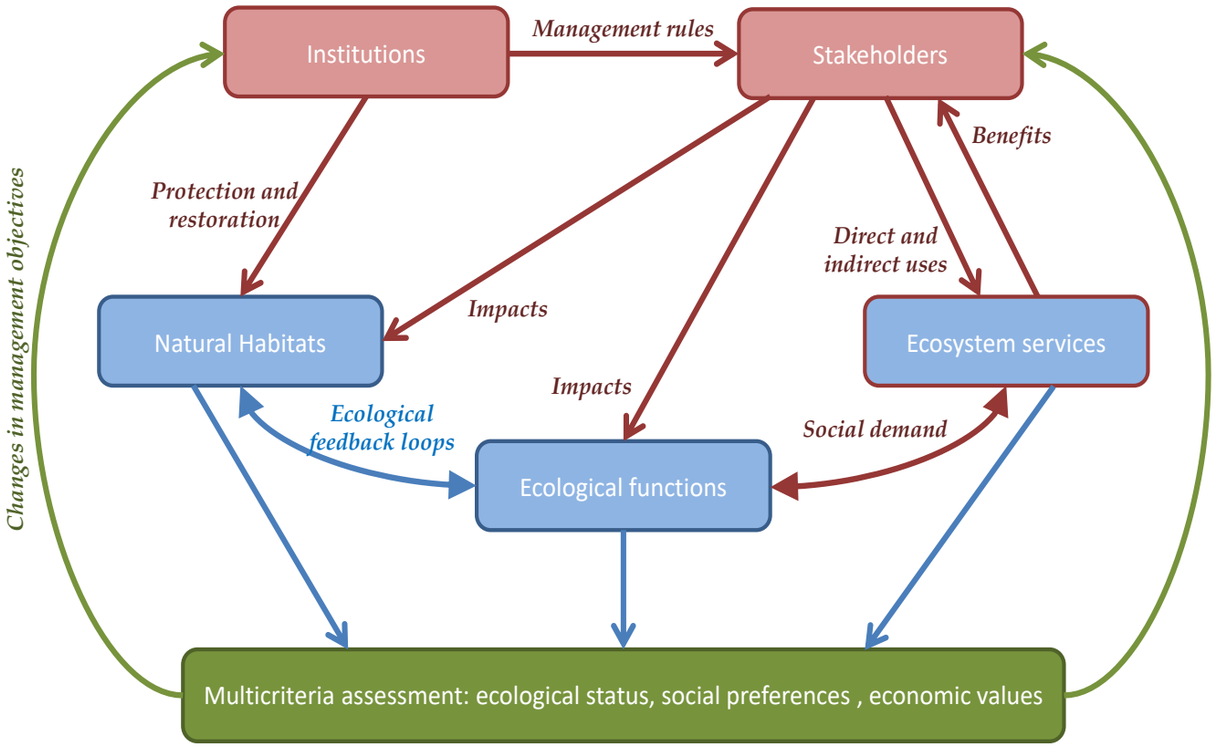
Conclusion

Same policy context: Natura 2000

Same entry point: recreation and tourism

The need for three « tailor-made » assessments

A system approach in the assessment process



Mongruel, 2015

Conclusion

Question for research

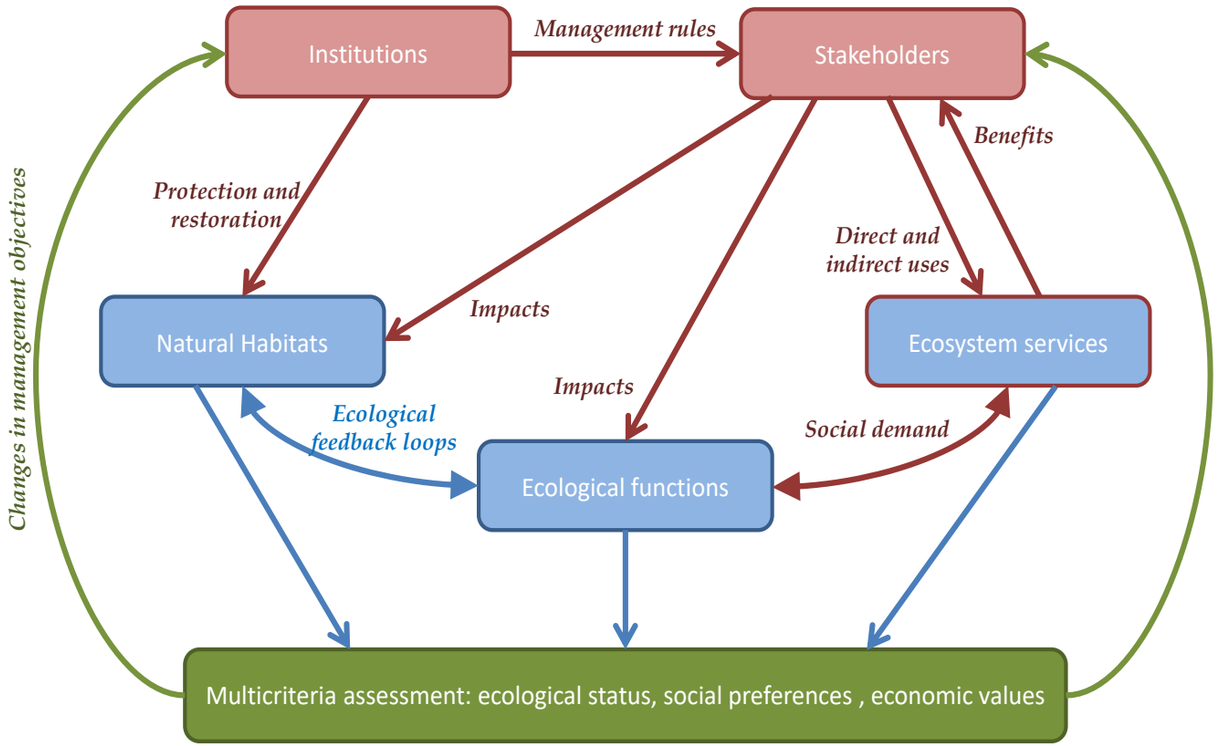
Building of trust and shared culture

Long-term involvement on field

New approach for research?

Increasing the appetite for socio-economic information in an interdisciplinary perspective

A system approach in the assessment process



Mongruel, 2015

Example:
Manager-Scientist plateform

HomMer