SUSTAINABLE FISHERIES IN EU MEDITERRANEAN WATERS THROUGH NETWORK OF MPAS



MEDAC, AJACCIO 11/10/2016 GIULIA PRATO, WWF ITALY













The Team













CUMULATIVE IMPACTS ON THE MEDITERRANEAN





95 % Mediterranean assessed fish stocks over- exploited (beyond MSY) (Colloca et al. 2011)

Ecosystem
approach to
fisheries
management

- Balanced fishing exploitation rates MSY
- Biological communities preserved, including essential fish habitats of commercial species

MARINE PROTECTED AREAS:

A TOOL FOR ECOSYSTEM BASED MANAGEMENT

Increases inside European MPAs:

Biomass \rightarrow 251 %

Density \rightarrow 121%

Size \rightarrow 13%



PISCO 2011. The Science of Marine Reserves

Species diversity → 19%

Fisheries benefits: CPUE, mean size of catch, diversity of catch (Stobart et al 2009, Goñi et al 2008)

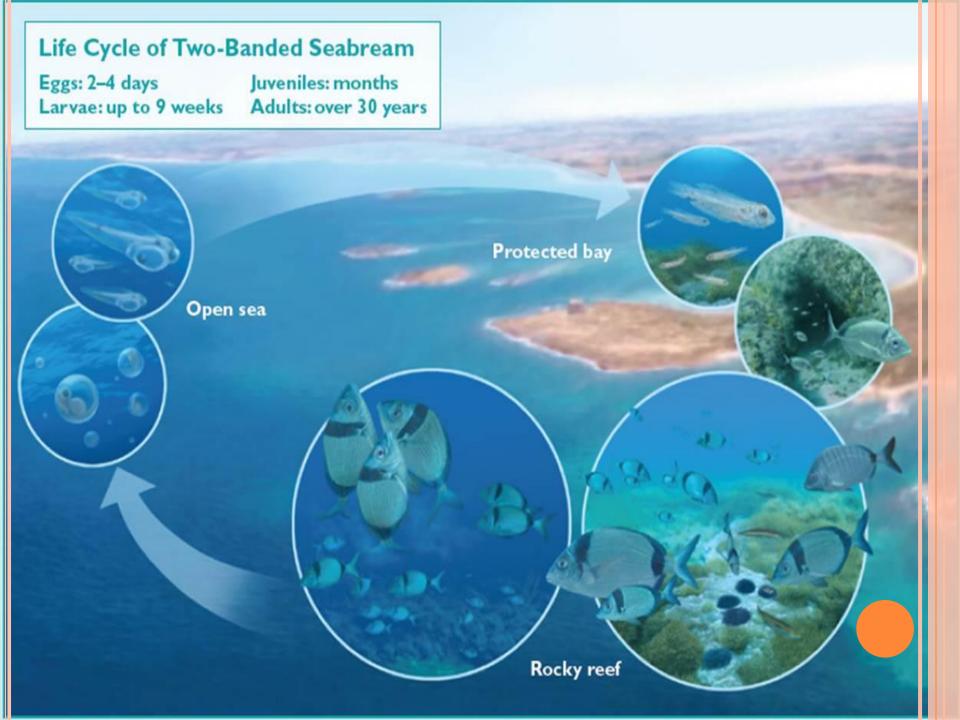
Socio-economic benefits: income and jobs (Roncin et al. 2008)



Age and design

Comanagement

Governance





NEW COMMON FISHERIES POLICY

SPATIAL MANAGEMENT OF FISHING EFFORT

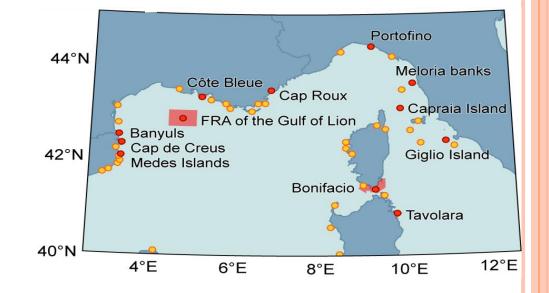
Scaling up
MPAs

MSY for fisheries

Spatio-temporal networks of Marine Managed Areas (including nursery and spawning aggregation areas)

OVERALL GOAL

Identify coherent networks of existing and new Marine Managed Areas Areas...

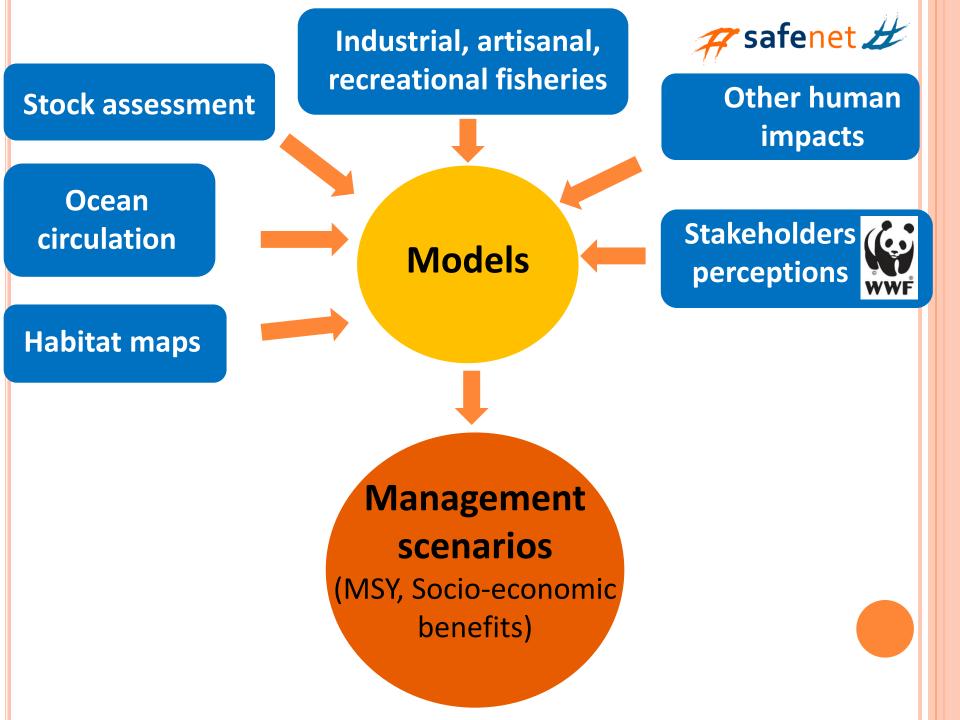


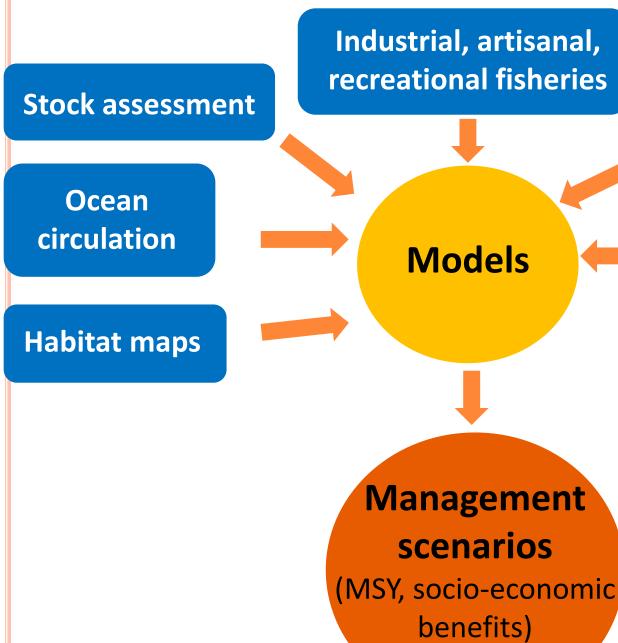
whose emergent properties (namely the interactive effect of scaling-up MPAs)...

can help achieve fisheries MSY...

and maximize over the long-term socio-economic benefits...

for the stakeholders in the north-western Mediterranean Sea.







Other human impacts

Stakeholders perceptions www.

- Artisanal fishermen
- Industrial fishermen
- Recreational fishermen
- Fisheries organizations
- MMAs directors
- NGOs
- Scientists



STAKEHOLDER ENGAGEMENT

stakeholders' opinion about...

state of fisheries

- current status
- recent trend (last 10 years) ►major threats

fishing & other marine uses

- impactsconflicts with other marine uses

protected areas

▶ impacts on fishing



How to improve fisheries management in your region?

Thank you for taking the time to complete this survey. It has been developed to gather stakeholders opinions on the current status of the fisheries in your region and suggestions about possible measures to

The survey is anonymous and your answers will be treated as strictly confidential. Data gathered through the survey will be reported in aggregate and impersonal form only. A summary of the findings will be made available for distribution to the general nublic. I loop request, we will send you a conv of the summans.

fisheries management suggestions

languages:

- ► ENG
- **▶** ESP
- ▶ FRA

ARTISANAL AND INDUSTRIAL FISHERIES SURVEYS







Fleur de Sel



- Gulf of Lyons
- St. Raphael
- Sardinia
- Tuscany

RECREATIONAL FISHERIES SURVEYS



Recreational fisheries in your organization and in your region

Thank you for taking the time to complete this survey. It has been developed to collect information from the representatives of recreational fishing associations/federations/clubs regarding some general aspects of these organizations, and to gather perceptions on the current status of the fisheries in your region and suggestions about possible measures to enhance it.

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Addressed to representatives of recreational fishing associations



Online survey to be distributed by the representatives among members

Please, spread the word as much as possible!

FISHERIES ORGANIZATIONS REPRESENTATIVES

WE NEED YOUR SUGGESTIONS

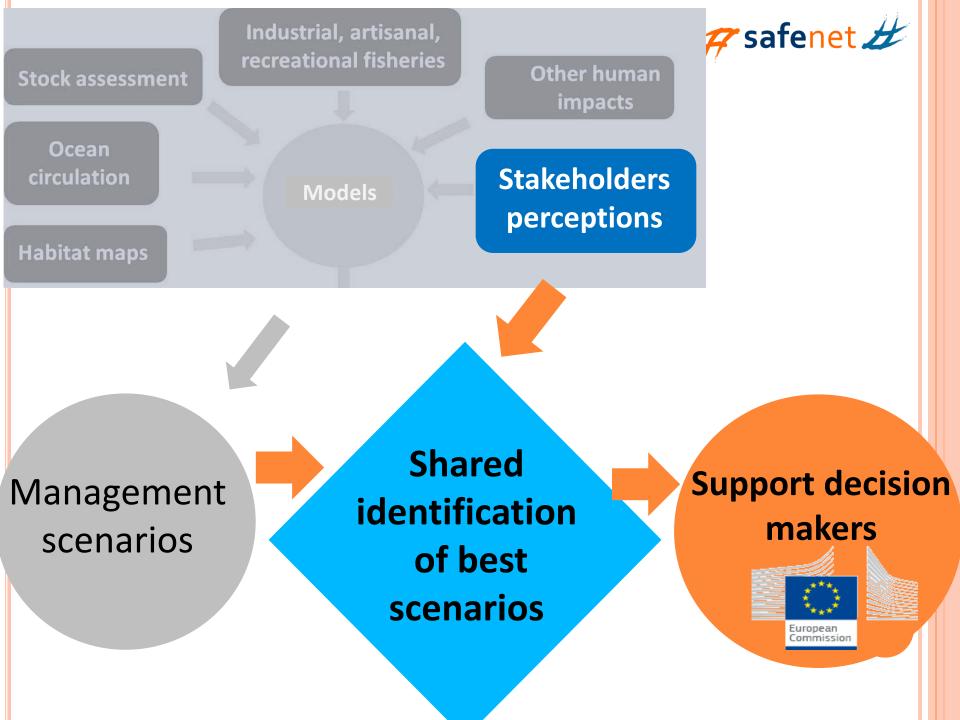




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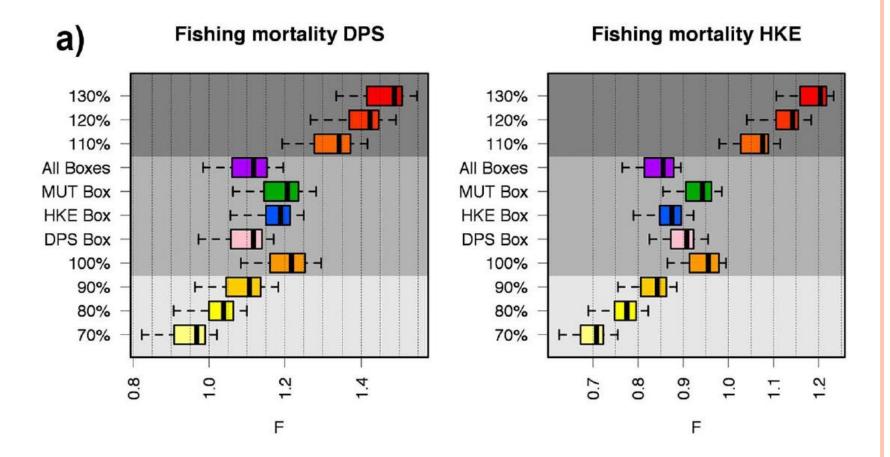


PLEASE DELIVER THE QUESTIONNAIRE TO THE ORGANIZERS OR EMAIL TO

gprato@wwfmedpo.org abuzzi@wwfmedpo.org

MERCI GRACIAS GRAZIE!





Simulated values of F (2010 fishing effort) by species according to different management scenarios (variation of fishing effort with no spatial constrains or closures of nurseries with no fishing effort variation).