FAIRSEA

Fisheries in the AdriatIc Region - a Shared Ecosystem Approach

Project short introduction

FAIRSEA| OGS | Simone Libralato

First Stakeholder Meeting | Venezia | 21 February 2019

European Regional Development Fund

FAIRSEA

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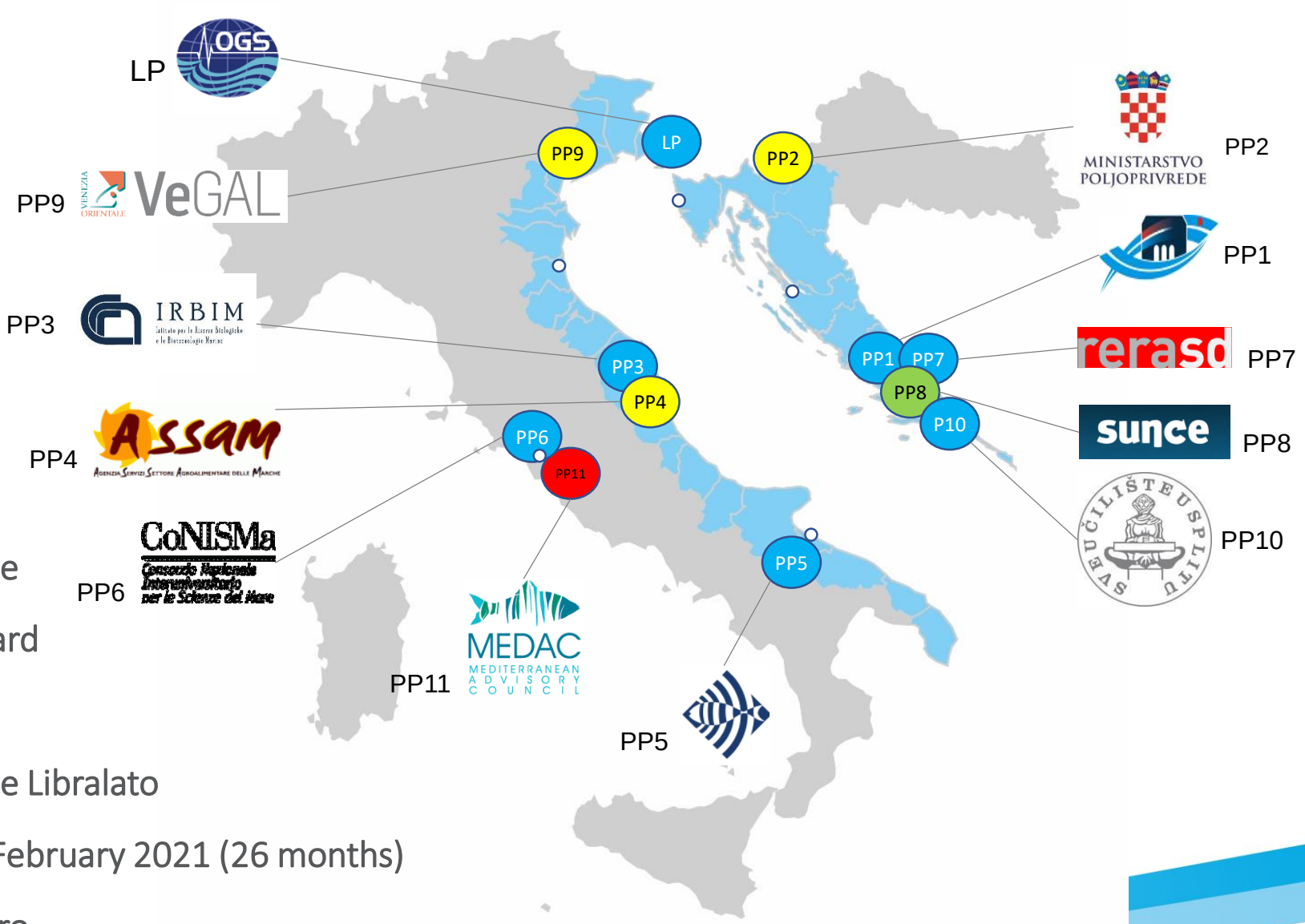


2014 - 2020 Interreg V-A

Italy - Croatia CBC Programme

Call for proposal 2017 Standard

Leading partner: OGS

Scientific Responsible: Simone Libralato

Duration: January 2019 end February 2021 (26 months)

Total budget: 2.060.00,00 Euro

Interreg Italy - Croatia FAIRSEA European Regional Development Fund

EUROPEAN UNION

BACKGROUND

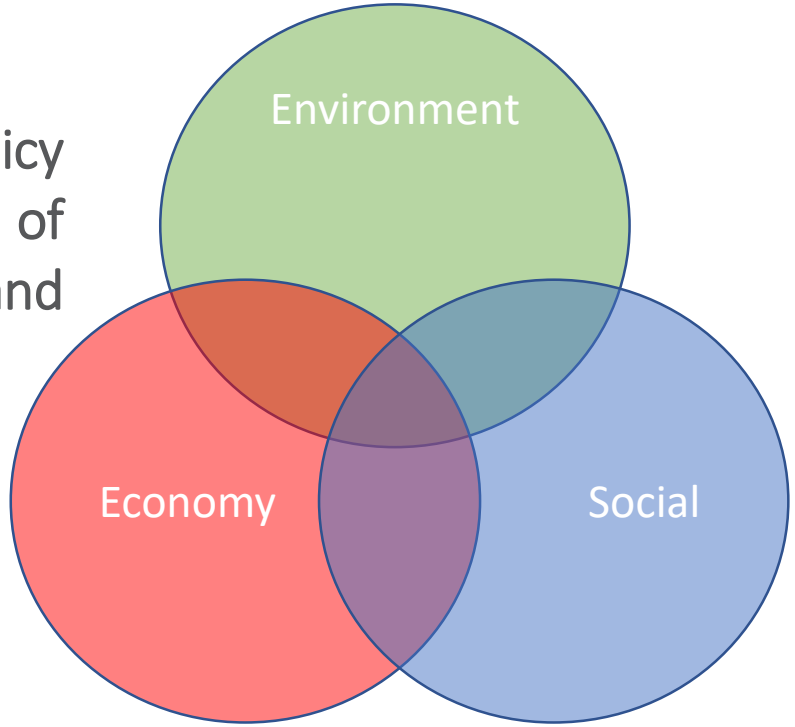
STATE OF ADRIATIC FISHERIES

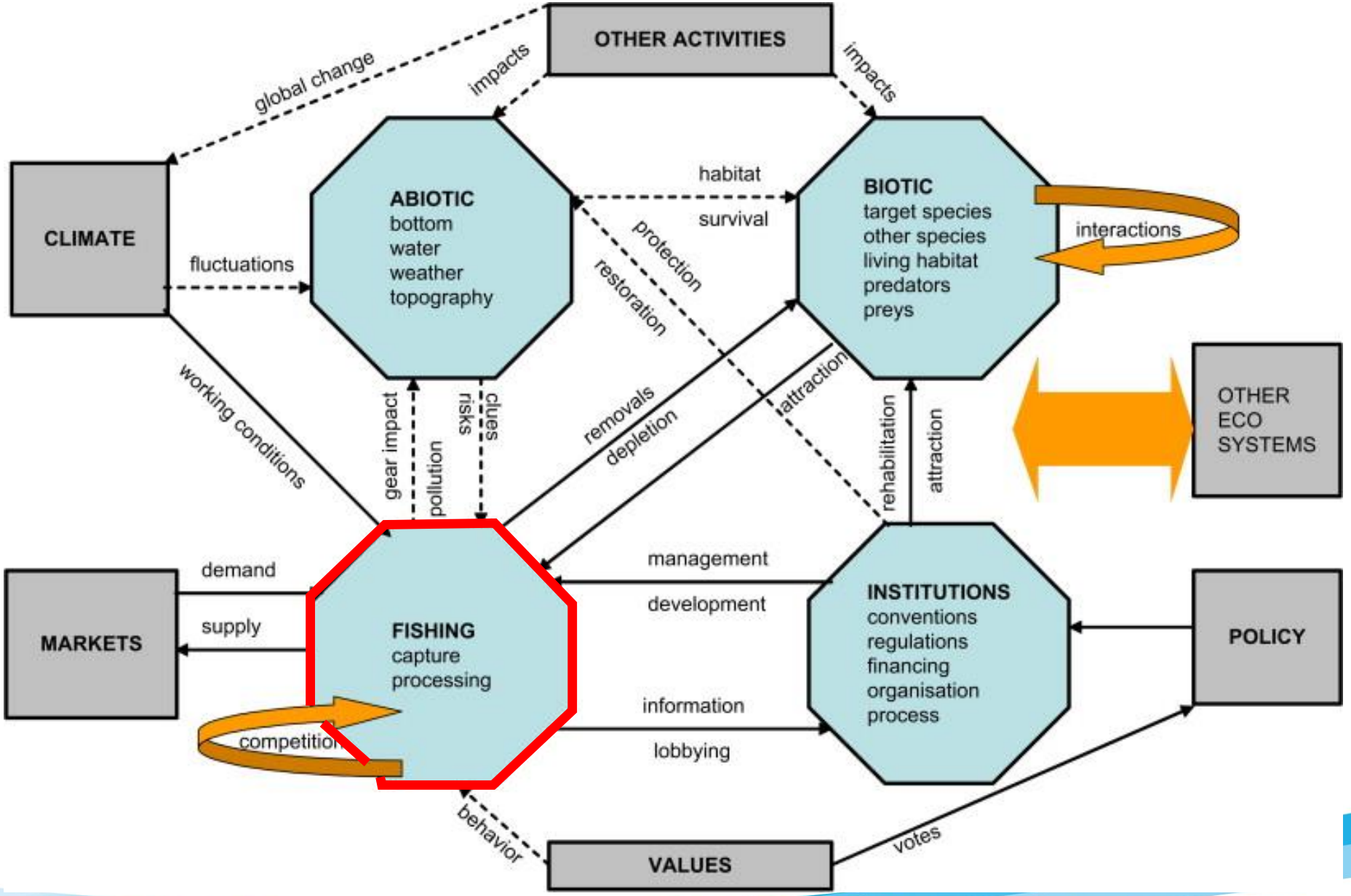
- Stock assessments (STECF and SAC-GFCM) indicates critical status for assessed pelagic and demersal recourses
- Landings variability due to several factors (environmental factors, long term changes, exploitation effects, regulations, etc).
- Establishment of large Fisheries regulated area (Pomo pit)
- Multi-target multi-gear fisheries

BACKGROUND

ECOSYSTEM APPROACH TO FISHERIES

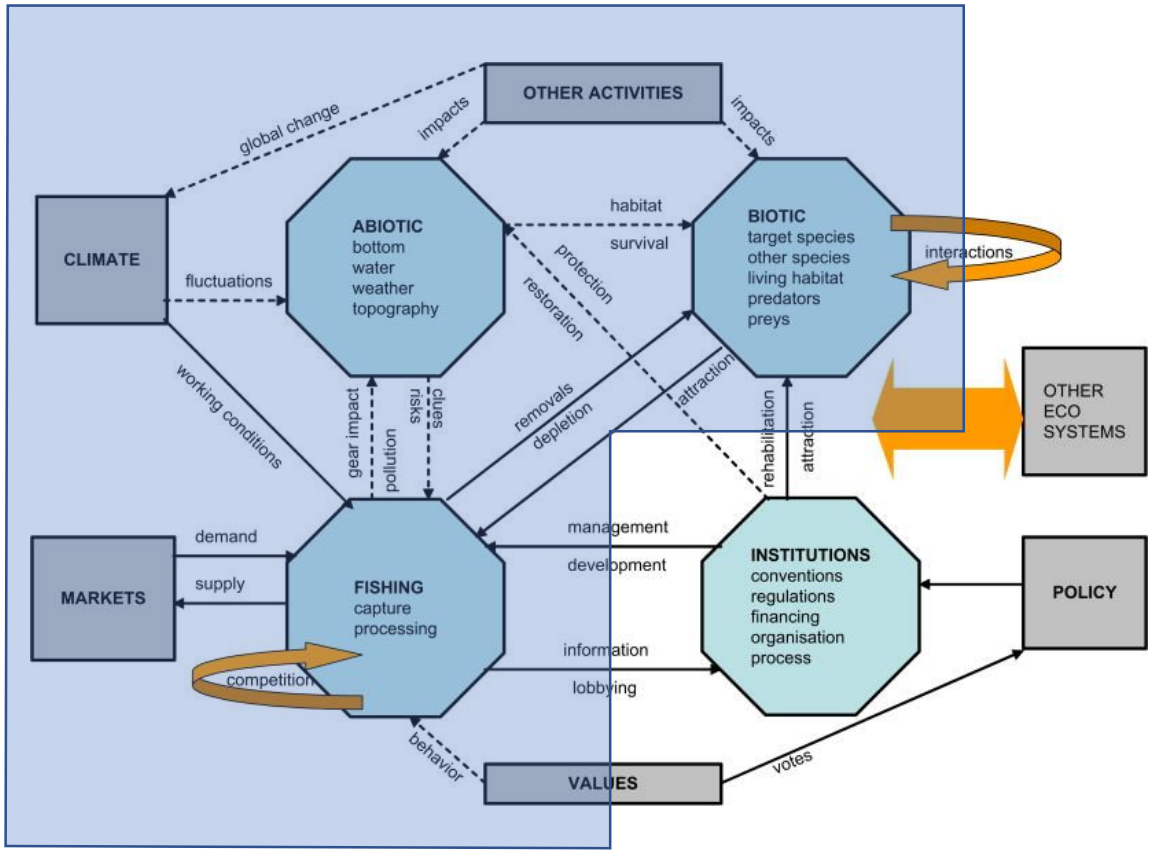
- translate the economic, social and ecological policy goals and aspirations of sustainable development of EAF into operational objectives, indicators and performance measures (FAO guidelines)




OTHER ACTIVITIES
global change
impacts
impacts
CLIMATE
ABIOTIC
bottom
water
weather
topography
habitat
survival
protection
restoration
BIOTIC
target species
other species
living habitat
predators
preys
interactions
fluctuations
working conditions
gear impact
pollution
risks
clues
removals
depletion
attraction
rehabilitation
attraction
OTHER
ECO
SYSTEMS
demand
supply
MARKETS
FISHING
capture
processing
management
development
INSTITUTIONS
conventions
regulations
financing
organisation
process
POLICY
information
lobbying
competition
behavior
VALUES
votes

FAIRSEA RATIONALE

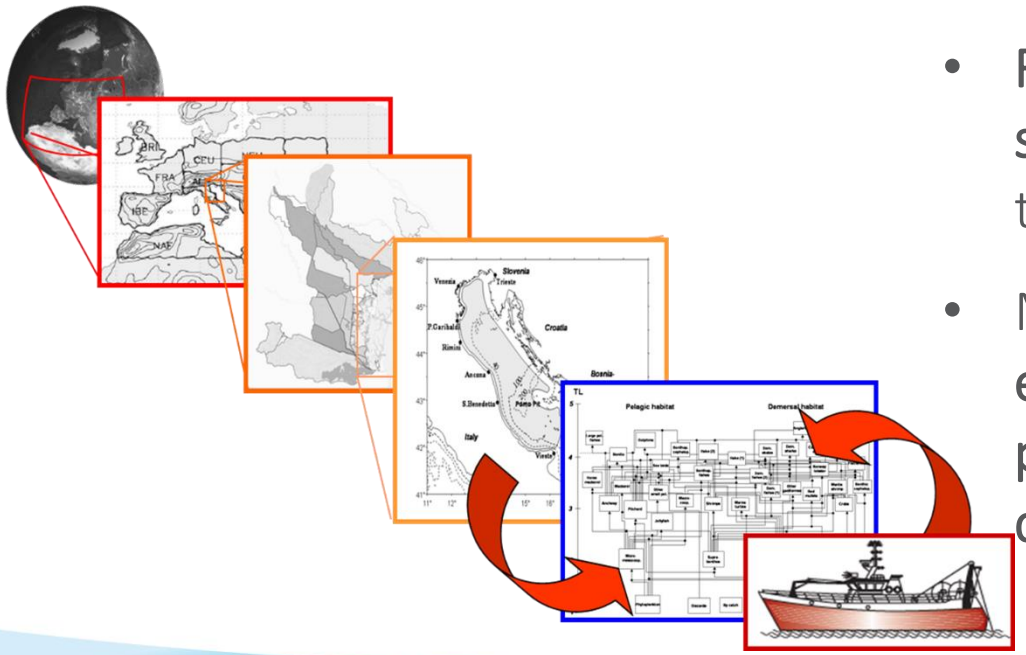
A SHARED ECOSYSTEM APPROACH



- **Method:** Transboundary and **transdisciplinary** development of a conceptual and applied approach that **facilitate an harmonized and optimized management.**
- **Aim:** increase fisheries productions within a sustainable framework or at least identifying ways that assure a more **economically efficient and sustainable** harvesting of marine resources
- **How:** developing collectively an **integrated platform** for sharing efforts, sharing data, sharing methods and test solutions. A tool **contributing to developing fisheries management plans**

THE PLATFORM

INTEGRATED DECISION SUPPORT TOOL



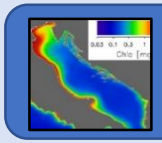
- **Integration of environmental variability.** Application of a transboundary and transdisciplinary approach that integrates physical, biochemical and biological processes
- **Multispecies, multigear approach**. Harmonized management can be achieved by going beyond single species and single gear approaches, and at the same time moving beyond boundaries.
- **Fisheries displacements and fisheries socioeconomic drivers** need to be included in the approach
- Moving toward an **operational application of the ecosystem approach to fisheries useful for providing advice for management plans development**

THE PLATFORM

The platform will result in a spatially explicit dynamic tool integrating cornerstone elements for an ecosystem approach to fisheries

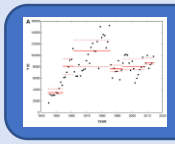
INTEGRATING PROCESSES (NOT only LAYERS)

HYDRO
water circulation & connectivity

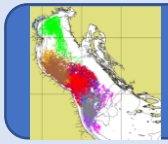


BGC
biogeochemical & plankton processes

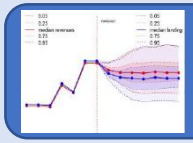
BSTAT
Distribution of resources



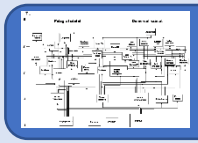
FSTAT
Catches and fleets statistics



EFFORT
Spatial distribution and dynamics



BIOECO
Bio-economic responses

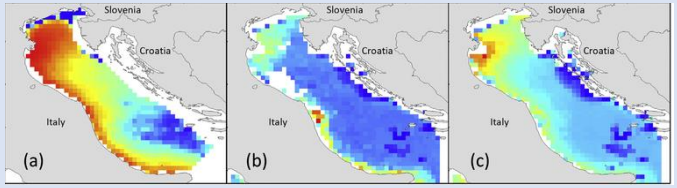


FWM
Food web dynamics

IRBIM
Istituto per le Risorse Biologiche e le Biotecnologie Marine

WP4

Integrated platform



Spatio-temporal integration using modelling tool(s)

Alternative management scenarios
Supporting management plans develpment

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IVORY TOWER?

NO: PARTECIPATORY APPROACH!

Developing the platform also through (your) involvement as a way to:

Share objectives to reduce the risk to make something useless;

Identify the perceived important factors to be embedded;

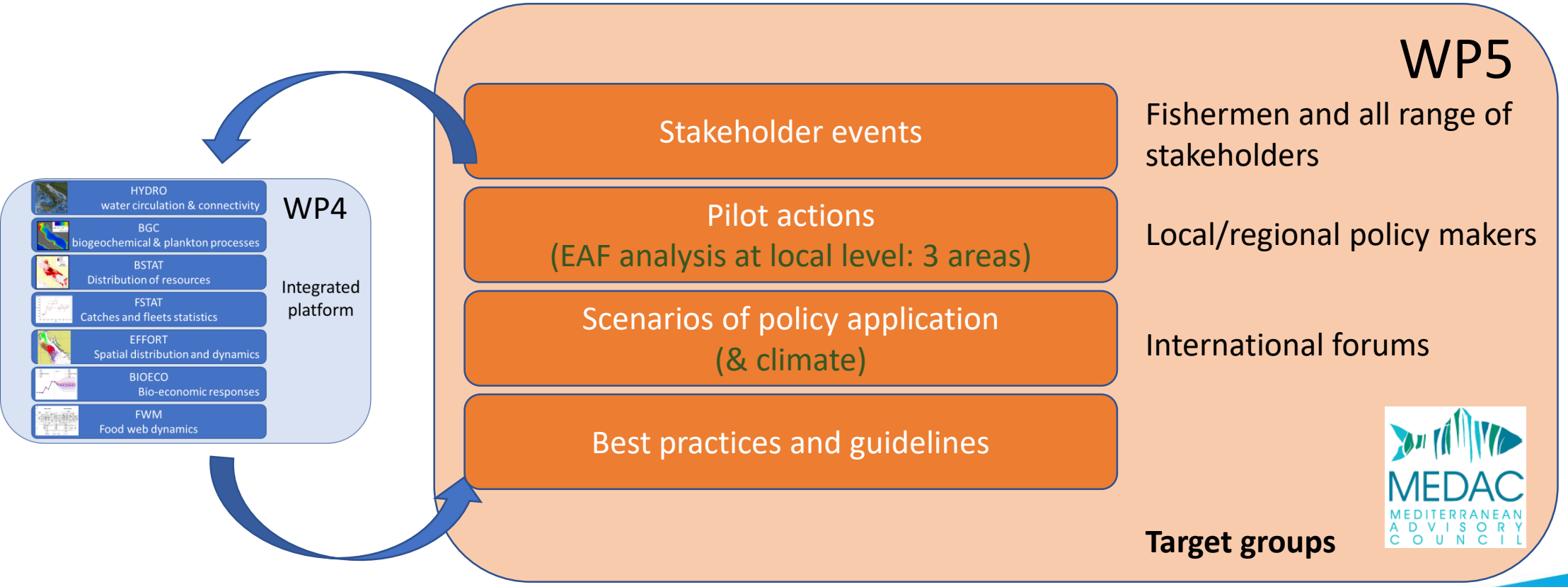
Decide together scenarios to test;

Evaluate results

STAKEHOLDER ENGAGEMENT

TOWARD A DECISION SUPPORT SYSTEM

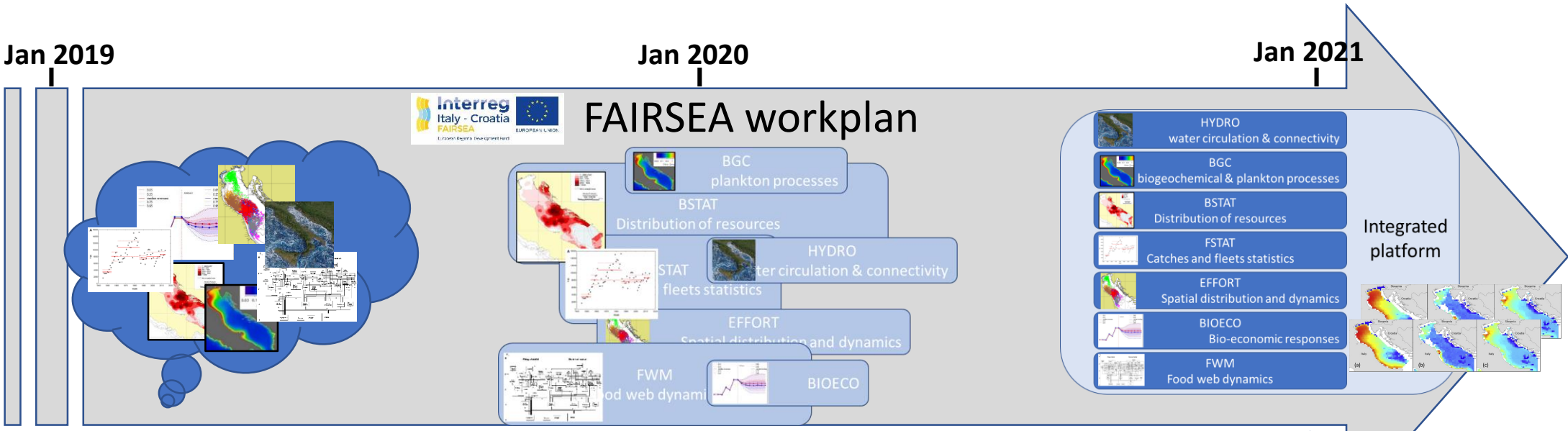
to ensure stakeholders' participation (two ways) in the process



PARTECIPATORY APPROACH

The platform development can be a mutual occasion to exploit

MUTUAL BENEFIT



1 Inputs on:
- General objectives
- management scenarios
- Indicators to evaluate

2 Drafting management scenarios
Quantitative ranking of Indicators

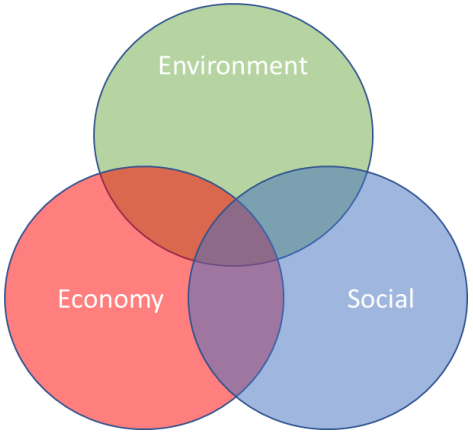
3 Evaluating scenarios and tool produced

STAKEHOLDERS (YOU)

1st Stakeholder meeting

STARTING THE PROCESS : MORNING

Presentations of working examples (from other projects) to facilitate the discussion



Presentations

(i) Fisheries displacement (spatial approach)

(ii) Role of environmental variables

(iii) Socio-economic analysis

Discussions

Important processes?

Useful for management?

Missing factors?

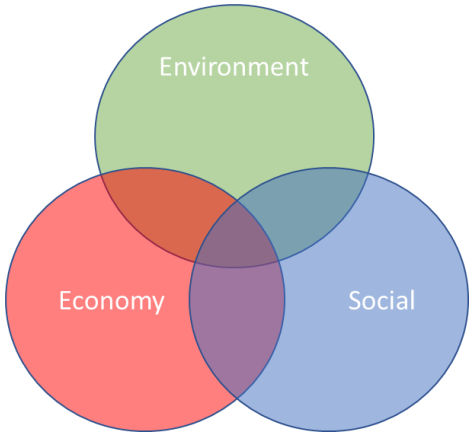
Species considered?

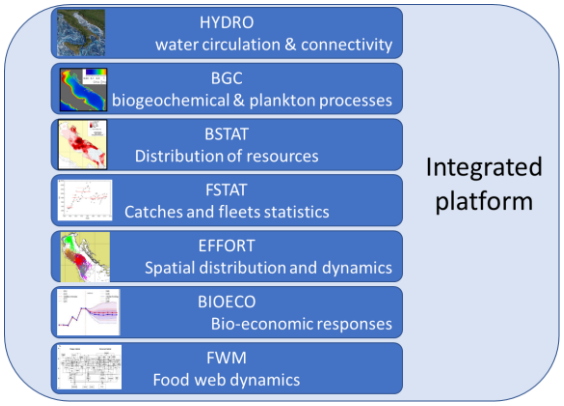
Technical interactions?

1st Stakeholder meeting

STARTING THE PROCESS : AFTERNOON

Transforming your inputs into (semi) quantitative evalutions





Each individual is invited to complete the questionnaire → Preference modelling techniques → Evaluting results

THANKS for the attention

Istituto Nazionale di Oceanografia e di Geofisica Sperimentale – OGS
(National Institute of Oceanography and Applied Geophysics – OGS)
Section Oceanography
ECHO Group Ecology and Computational Hydrodynamics in Oceanography

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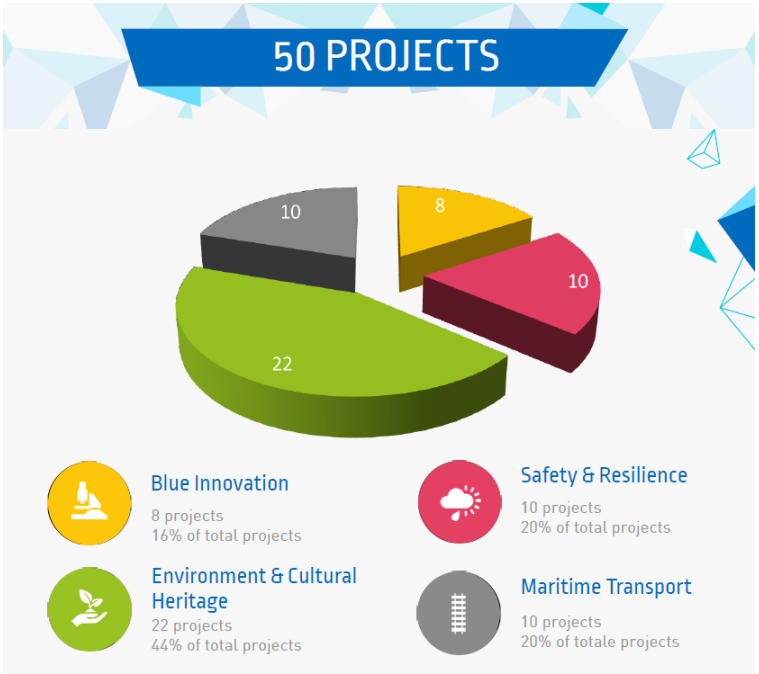

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FAIRSEA GENERAL OBJECTIVES

DEVELOP INTEGRATED UNDERSTANDING

- **Develop a spatially explicit science-based shared integrated platform that will constitute an innovative and applied framework in the Adriatic region for management and planning management.** The platform that will allow to share expertise, create a common pool of knowledge, boost the operational application of the ecosystem approach to fisheries, enhance the competence in complex system dynamics, foster a consensus on the state of the environment and fisheries in the region, evaluate management alternatives to support management plans.

- **Enhancing transnational capacity and cooperation** in the field of an ecosystem approach to fisheries in the Adriatic region by exchanging knowledge and **sharing good practices among partners and beyond**. The best way to reach sustainability, in fact, is **to ensure stakeholders' participation in the process** that requires time, trust, transparency and efficient steering.

FAIRSEA timeline

Submission (as SEAFAIR)	July 2017
Approved under condition	August 2018
Clearing conditions phase	September-December 2018
New application form submt (FAIRSEA)	December 2018
Complete submission	January 2019
Project starting	01/01/2019
Signature between MA and LP	soon!
Partnership agreement	following

Project specific objectives

Enhance transboundary integrated competence in the field of ecosystem approach to fisheries
The goal is to develop a territorially integrated conceptualization of the EAF beyond existing differences and boundaries, and to strengthen and structure a network for future transnational plans useful in the framework of the Common Fisheries Policy (CFP). This will result in reinforcing cohesion and encourage identification and adoption of economic optimal strategies.

Implement a shared "state of the art" integrated platform for the region
The tool results from a novel integration of existing information and numerical approaches applied in the Adriatic basin (GSA17 and GSA18). The FAIRSEA integrated platform will permit testing different exemplificative policies that will be analysed and presented to stakeholders and policy makers for discussion.

Share benefits and challenges of ecosystem approach to facilitate the achievement of CFP objectives
The production of guidelines and best practices for transnational integrated frameworks useful for an ecosystem approach to fisheries is another aim of FAIRSEA. Another objective is transferring at different levels and to different groups the potentialities and the difficulties of the approach in order to increase its further development in the region and outside the region.

Project main output 1

Decision support tool in the form of the integrated platform for an ecosystem approach to fisheries (EAF)

The FAIRSEA project represents a cross-border initiative for enhancing comprehension and use of applied ecosystem approach, involving 7 research institutions (5 IT, 2 HR): 3 public and 1 private research institutions (public: IOF, CNR, OGS; private: COISPA), and 3 universities (UNIST, 2 CONISMA local units). CONISMA represents a network of Italian universities and will participate to the project with the following units: Marine Biology and fisheries Laboratory of Fano (University of Bologna), Department of Biology (University of Bari). All the research institutions will be involved in the shared conceptualization, development and implementation of the integrated platform for an EAF. IOF will also have important contribution in communication through classic and new instruments fundamental for increasing awareness on EAF. OGS and UNIST will also contribute to increase capacities in the field of EAF by organizing events for capacity building on EAF . All research institutions, but especially CNR, will have important role in networking for sharing and enhancing EAF capabilities in existing technical forums at regional, national and international level.

Project main output 2

Summer schools and technical events

The FAIRSEA contributes to the Program output indicator by involving approximately 60 persons in 10 high level training activities. Two summer schools are going to be organised (WP3) for increasing skills and capacities. At each school 25 people will be jointly trained on high-level technical tools useful for EAF in the region. Furthermore, in 8 technical events for policy makers (WP3) FAIRSEA partnership will encounter local policy makers resulting in a training on general concepts, EAF tools and results. In each meeting, it is foreseen the participation of at least 4 policy makers at local, regional, and national level. Considering the potential participation of same person into both kind of events, it is assumed that the project will thus provide high-level training for approximately 60 persons in the area.

GENERAL STRUCTURE

Managing, coordinating and communicating the project

WP1- Management & Coordination

WP2- Communication

WP3

- Context analysis
- Cross border roadmap for operational EAF
- Advanced schools on EAF
- Technical events (to local/regional focal points)
- International working groups (ICES, GFCM, STECF, FAO-Adriamed, EUSAIR)

Sharing and enhancing Technical capabilities

ADVISORY SERVICE

WP4

- HYDRO water circulation & connectivity
- BGC biogeochemical & plankton processes
- BSTAT Distribution of resources
- FSTAT Catches and fleets statistics
- EFFORT Spatial distribution and dynamics
- BIOECO Bio-economic responses
- FWM Food web dynamics

Integrated platform

Consiglio Nazionale delle Ricerche

WP5

- Stakeholder events
- Pilot actions (EAF analysis at local level: 3 areas)
- Scenarios of policy application (& climate)
- Best practices and guidelines

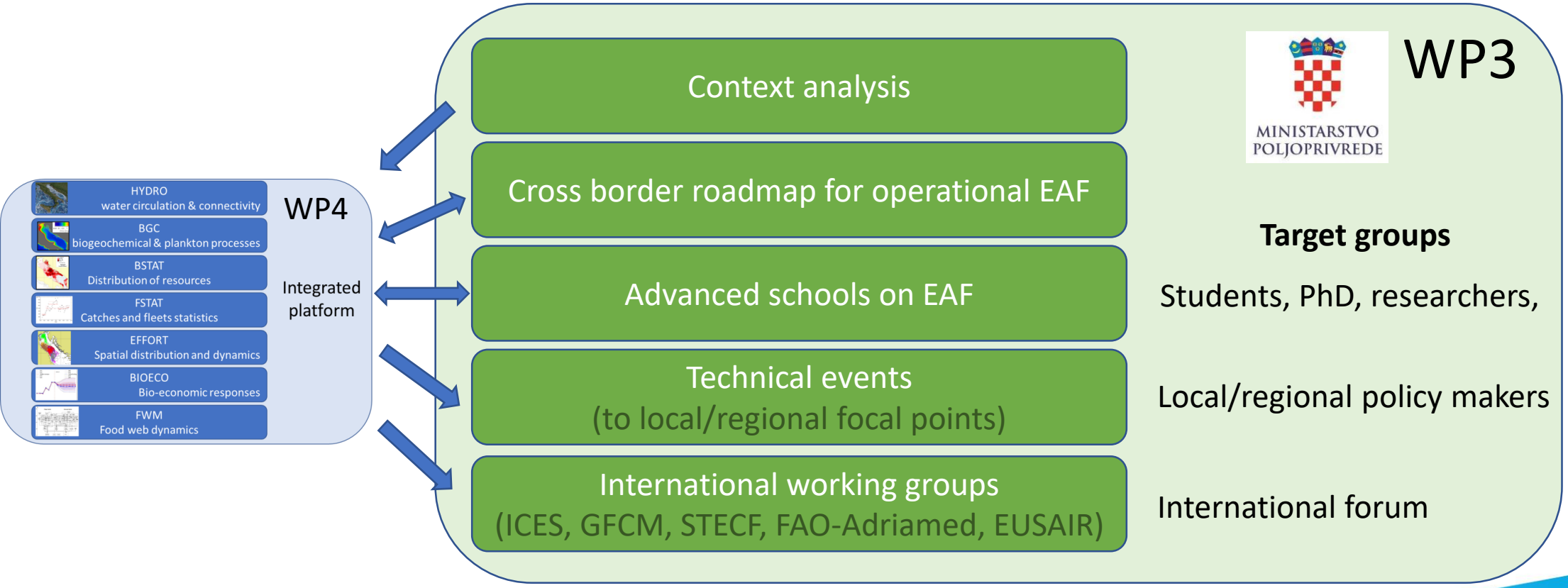
Toward an applied DSS

MEDAC MEDITERRANEAN ADVISORY COUNCIL

SHARING & ENHANCING

TECHNICAL CAPACITIES

The platform development will be an occasion to exploit



Communication

Communicating the project to target groups

WP2- Communication

- Start-up activities including communication strategy
- Digital activities
- Promotional material production
- Media relation and publications
- Events

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