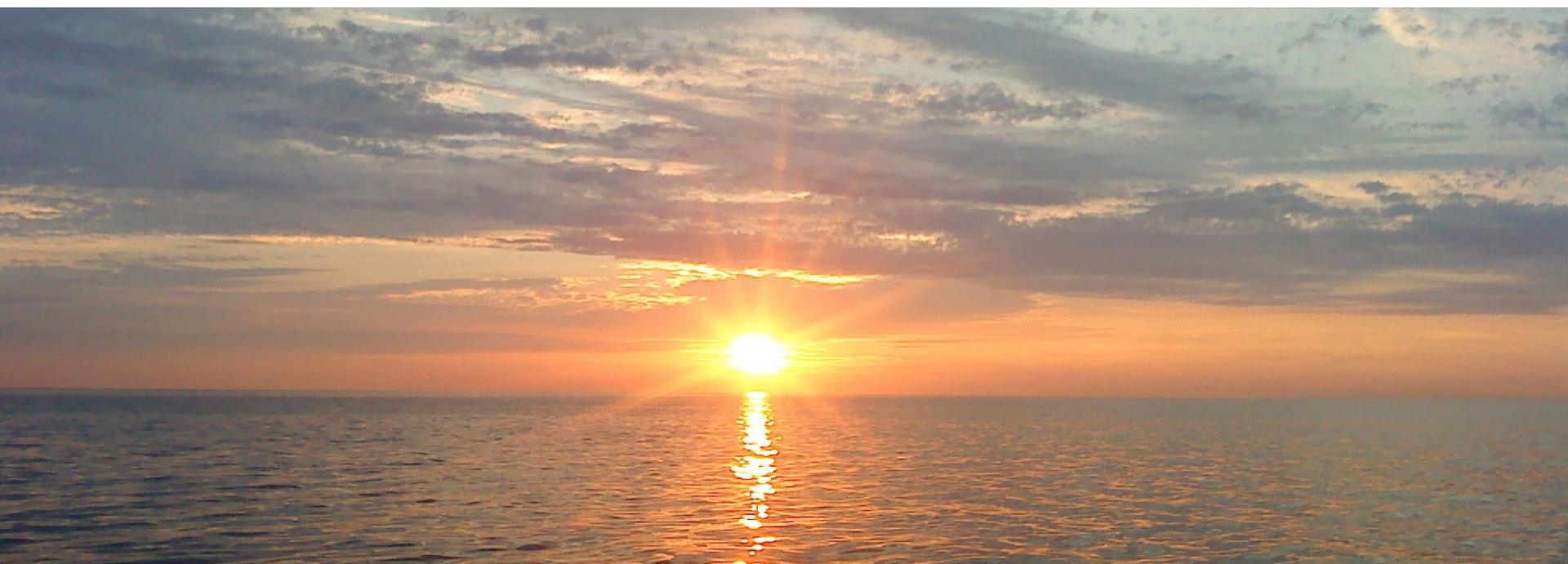


# ADRIPLAN Project: a pilot study on MSP in the Adriatic-Ionian Region

*Andrea Barbanti, CNR-ISMAR, Venice*

Convegno “I progetti europei nella Regione Marche per la tutela del mare e delle sue risorse”.

Senigallia, 4 Settembre 2014



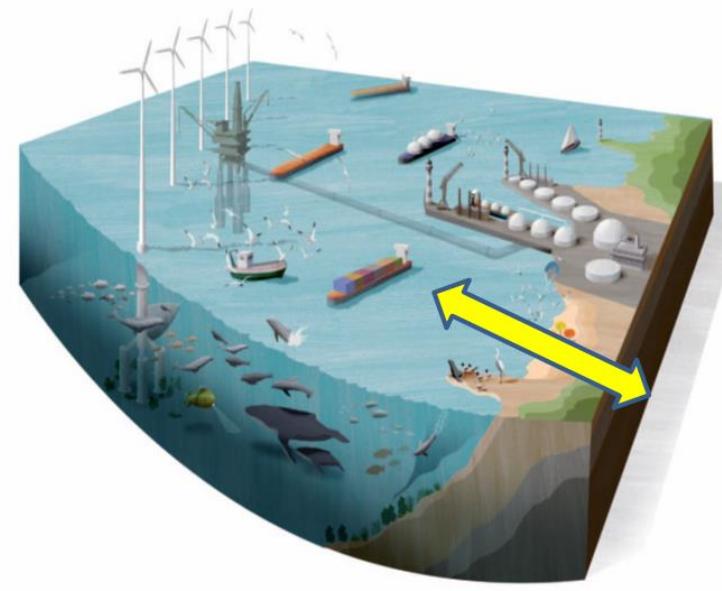
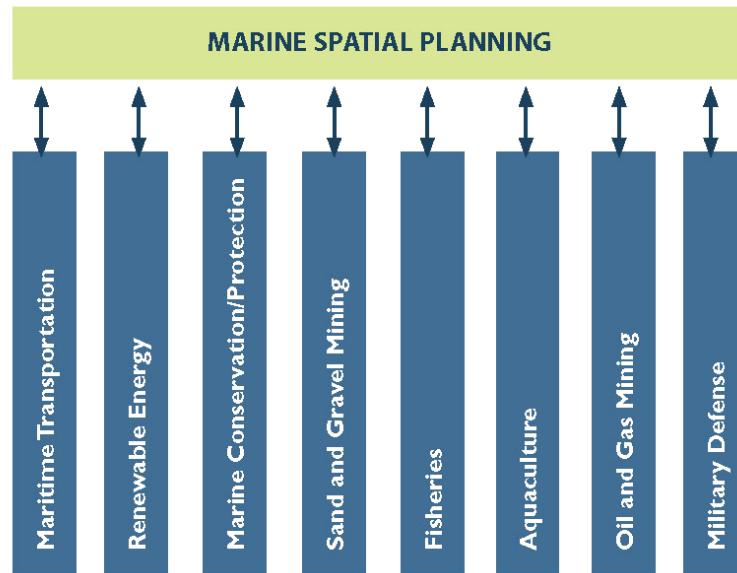


- MSP and the new MSP Directive (2014/89/EU)
- The Adriatic-Ionian Region (AIR), EUSAIR and MSP
- ADRIPLAN
- MSP priorities in the AIR and examples
- Take-Home Messages

# Cos'è la Pianificazione dello Spazio Marittimo (MSP)

MSP è un modo pratico di creare e definire un più razionale organizzazione dell'uso dello spazio marittimo e delle interazioni fra i suoi **usi**, per bilanciare le domande di sviluppo con la necessità di proteggere gli **ecosistemi marini** e di raggiungere **obiettivi sociali ed economici** in un modo **trasparente** e pianificato.

*(Ehler & Douvere, 2006)*



# La nuova Direttiva su MSP (2014/89/EU)



DIRECTIVE 2014/89/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL  
of 23 July 2014

establishing a framework for maritime spatial planning

## Obiettivo:

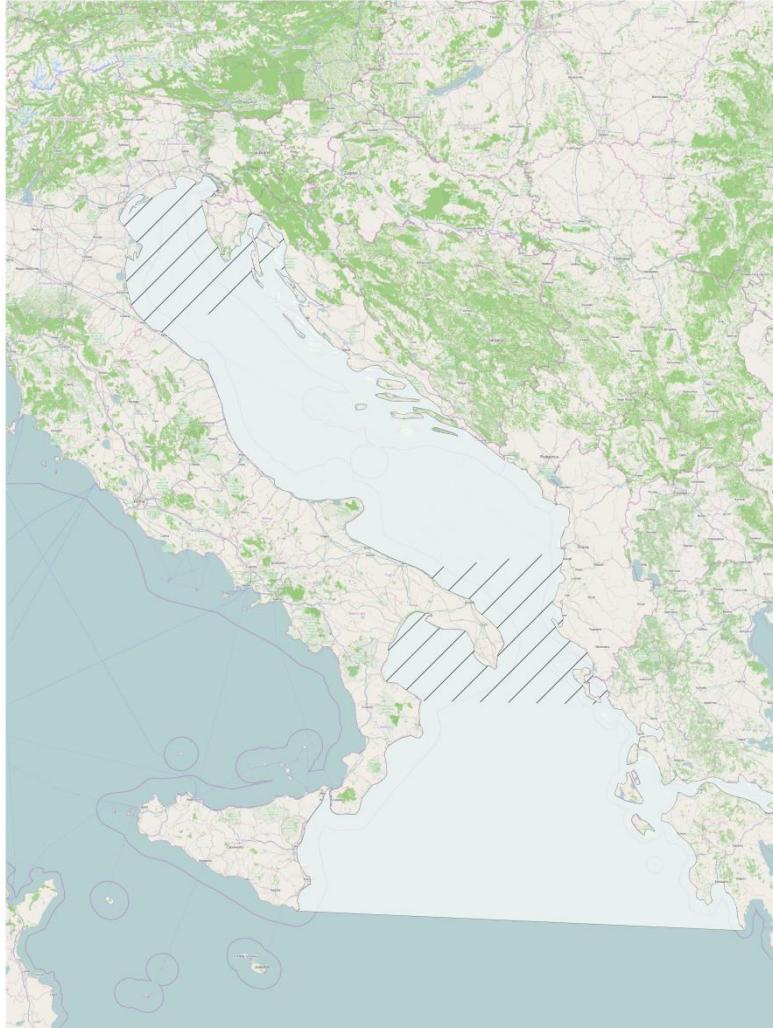
- Promuovere la crescita e l'uso sostenibile delle risorse

## Elementi salienti:

- Ogni Stato Membro elabora e attua al più tardi **entro il 2021** uno o più piani di gestione dello spazio marittimo, **tenendo in considerazione le interazioni terra-mare**
- I piani di gestione applicano un **approccio ecosistemico** e promuovono la **coesistenza delle attività e degli usi**, tenendo conto delle priorità economiche, sociali e ambientali delle aree
- Gli Stati Membri organizzano la raccolta e l'uso dei **migliori dati disponibili** e decidono come organizzare lo **scambio di informazioni** necessarie per i piani di gestione
- **Cooperazione transnazionale** fra Stati Membri e paesi terzi
- **Autorità competente**, entro il 2016
- **Partecipazione pubblica**, cooperazione fra le Amministrazioni e i portatori di interessi
- **Recepimento** da parte dei Paesi Membri **entro il 2016**



# The Adriatic-Ionian Region



- 7 Countries (4 EU MS)
- 2 MSFD marine subregions
- EUSAIR (EU Strategy for the Adriatic and Ionian Region) Action Plan being finalized. **MSP is expected to be an important component of it**
  
- More than 12.000 km of coastline; about 300.000 km<sup>2</sup> of extension
- From very shallow to deep (4000 m) waters
- Adriatic: semi-enclosed dilution basin, collecting a third of the freshwater flowing into the Mediterranean

# EUSAIR Action Plan (COM(2014)357 final)

Pillars	Topics	Actions	Projects
<b>Blue Growth</b>	Blue technologies		
	Fisheries and aquaculture		
	Maritime and marine governance and services	<ul style="list-style-type: none"> <li>- <b>Governance of maritime space</b></li> <li>- ....</li> </ul>	<b>ADRIPLAN, ...</b>
<b>Connecting the region</b>	Maritime transport		
	Intermodal connections to the interland		
	Energy networks		
<b>Environmental quality</b>	The marine environment	<ul style="list-style-type: none"> <li>- ....</li> <li>- <b>Implementing ICZM/MSP</b></li> </ul>	<b>ADRIPLAN, ...</b>
	Transnational terrestrial habitats and biodiversity		
<b>Sustainable tourism</b>	Diversified tourism offer		
	Sustainable and responsible tourism management		

**ADRIPLAN will contribute to implement the principles and objectives of the Plan, on different aspects**

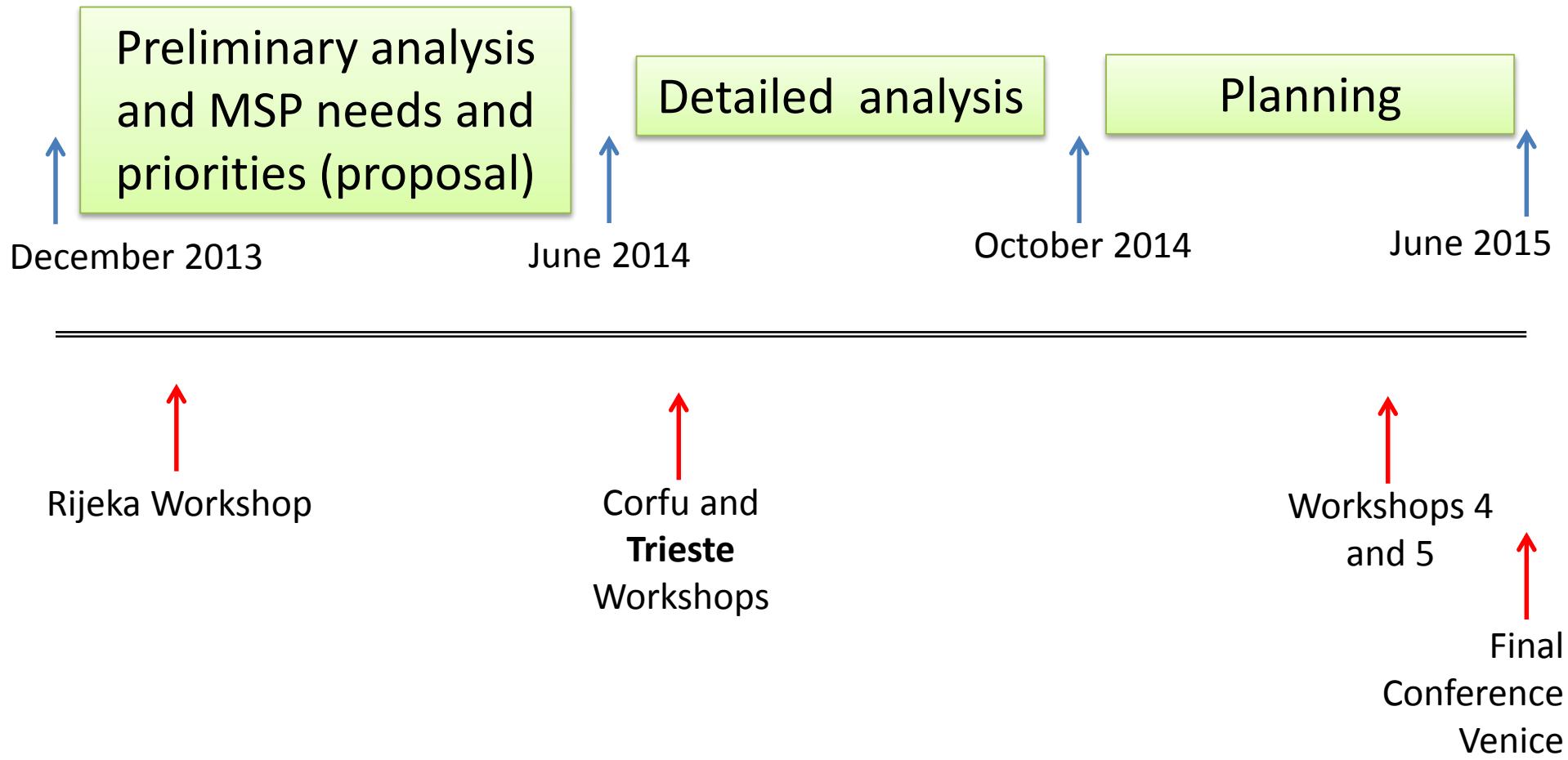
# ADRIPLAN Objectives

(EC-DG MARE; Dec 2013 - Jun 2015)

- ✓ **Commonly-agreed approach** to cross-border MSP in the AIM, considered as a whole (Pan-AIM view) and more specifically through two Focus Areas
- ✓ **MSP priorities** based on the best knowledge available
- ✓ **Concrete Planning** and Management options on Focus Areas and specific problems
- ✓ **Recommendations for the implementation** of cross-border MSP in the AIM and other regions of the Mediterranean



# ADRIPLAN Work Plan (and this Workshop)



# ADRIPLAN Partners

CNR-ISMAR, Venice

OGS, Trieste

IUAV, Venice

City of Rijeka

Regional Development Centre Koper

Conisma, Lecce

University of Thessaly

HCMR, Athens

Emilia-Romagna Region

Veneto Region

Friuli Venezia Giulia Region

Marche Region

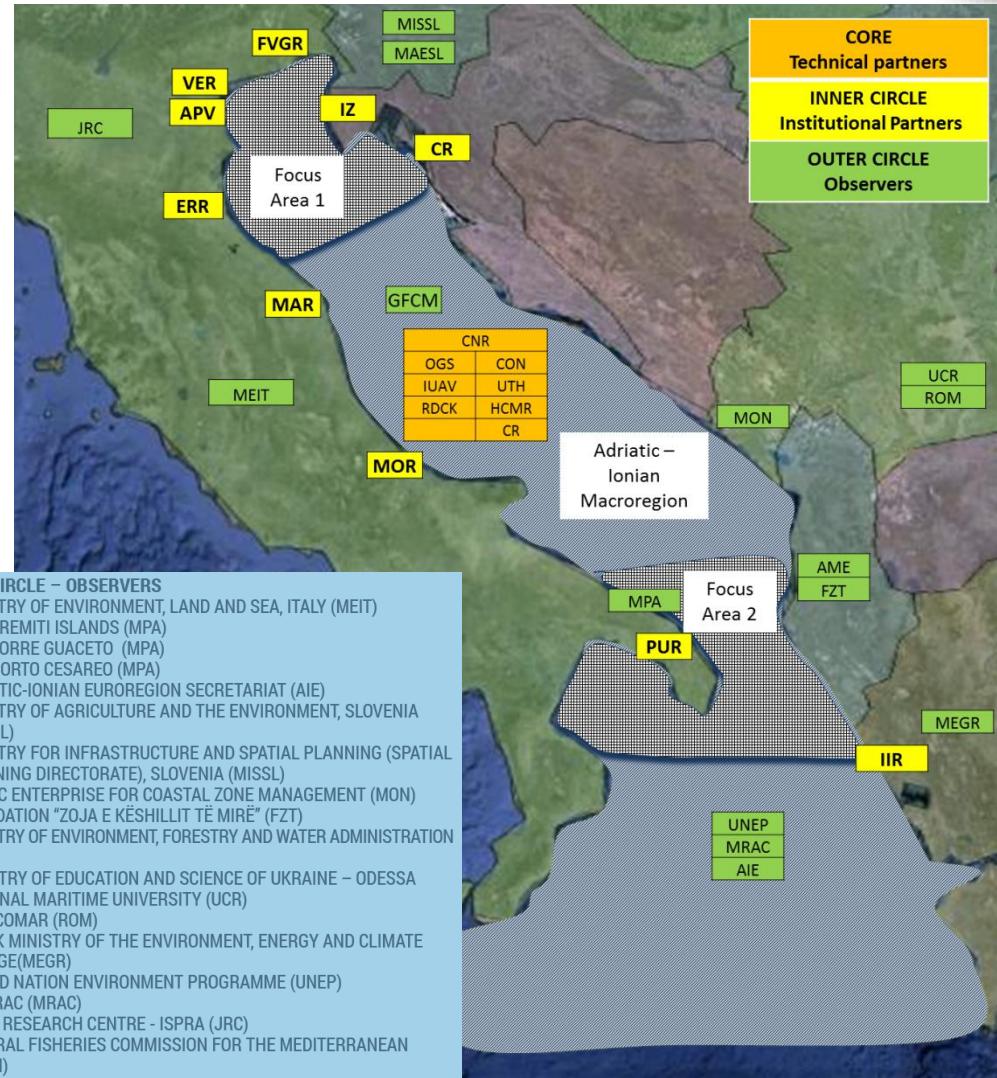
Molise Region

Puglia Region

Istria Region

Ionian Islands Region

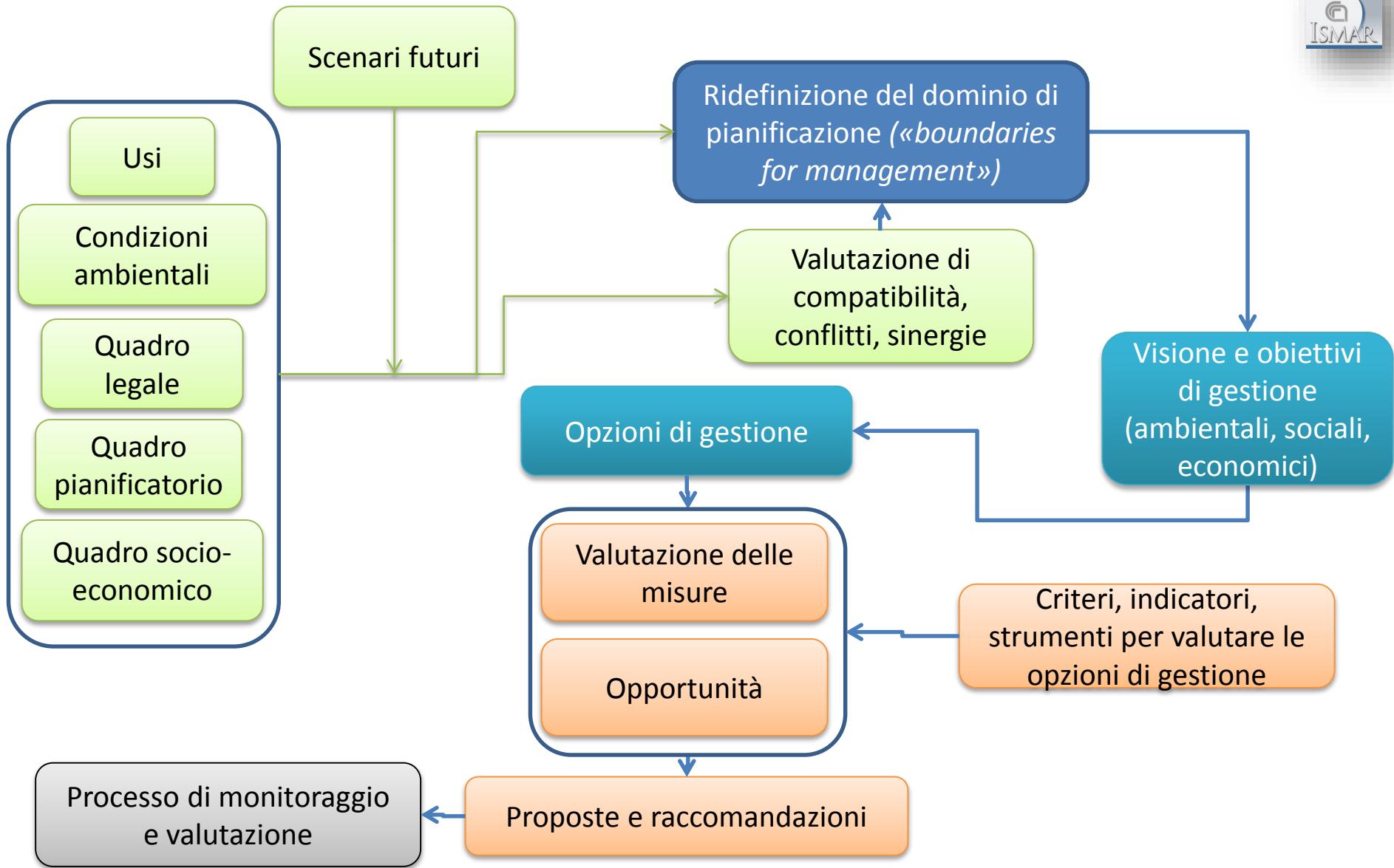
Venice Port Authority



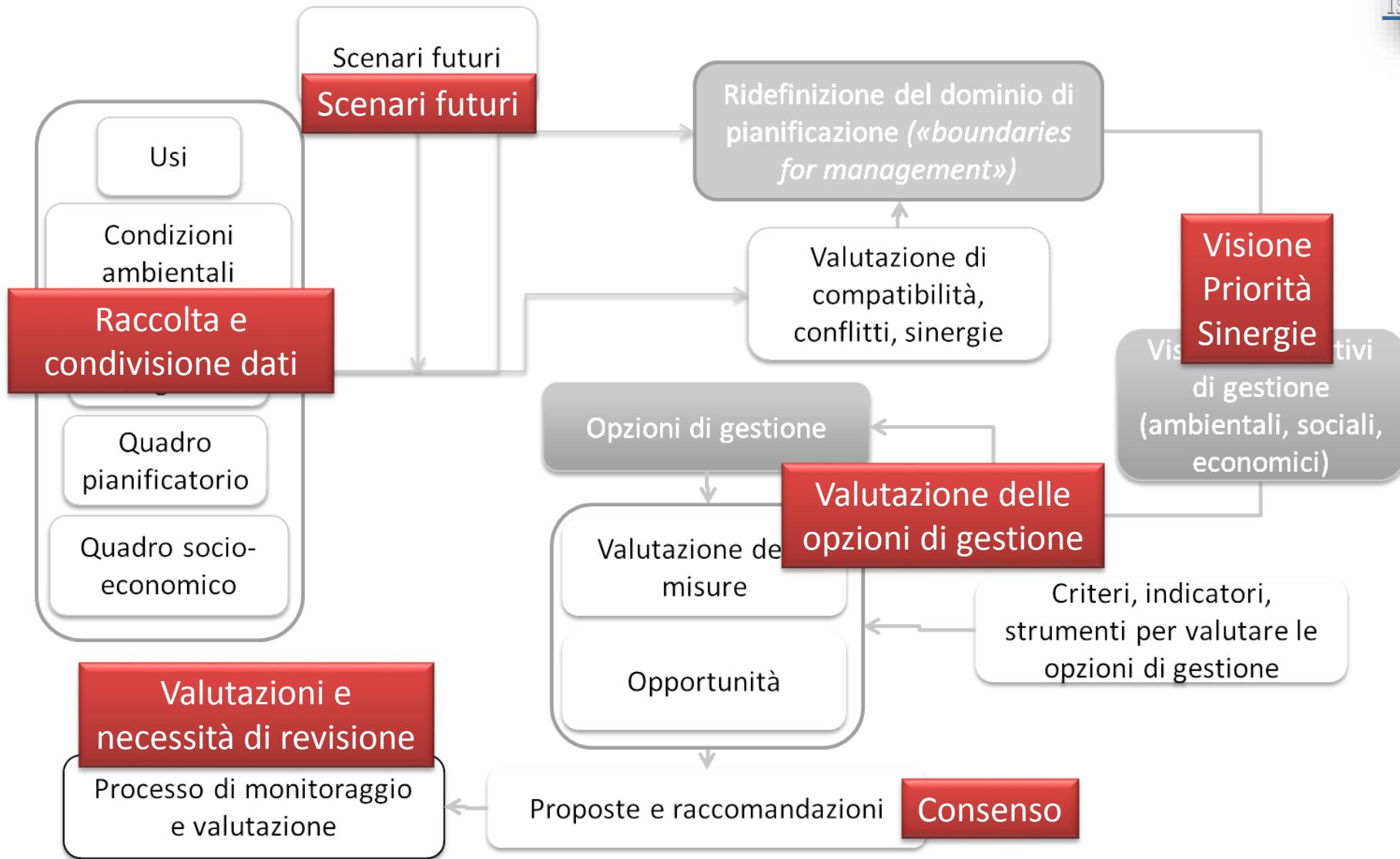
- OUTER CIRCLE – OBSERVERS**
1. MINISTRY OF ENVIRONMENT, LAND AND SEA, ITALY (MEIT)
  2. MPA TREMITI ISLANDS (MPA)
  3. MPA TORRE GUACETO (MPA)
  4. MPA PORTO CESAREO (MPA)
  5. ADRIATIC-IONIAN EUROREGION SECRETARIAT (AIE)
  6. MINISTRY OF AGRICULTURE AND THE ENVIRONMENT, SLOVENIA (MAESL)
  7. MINISTRY FOR INFRASTRUCTURE AND SPATIAL PLANNING (SPATIAL PLANNING DIRECTORATE), SLOVENIA (MISSL)
  8. PUBLIC ENTERPRISE FOR COASTAL ZONE MANAGEMENT (MON)
  9. FOUNDATION "ZOJA E KËSHILLIT TË MIRE" (FZT)
  10. MINISTRY OF ENVIRONMENT, FORESTRY AND WATER ADMINISTRATION (AME)
  11. MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE – ODESSA NATIONAL MARITIME UNIVERSITY (UCR)
  12. GEOECOMAR (ROM)
  13. GREEK MINISTRY OF THE ENVIRONMENT, ENERGY AND CLIMATE CHANGE(MEGR)
  14. UNITED NATION ENVIRONMENT PROGRAMME (UNEP)
  15. MED-RAC (MRAC)
  16. JOINT RESEARCH CENTRE - ISPRA (JRC)
  17. GENERAL FISHERIES COMMISSION FOR THE MEDITERRANEAN (GFCM)



# La metodologia di ADRIPLAN



# La metodologia di ADRIPLAN – Ruolo degli Stakeholders



# ADRIPLAN Data Portal



**WELCOME**

GeoNode is an open source platform for sharing geospatial data and maps. If you have any questions about the software or service, join our [mailing list](#).

[Need help? Getting Started?](#)

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Layer from andrea 2 days, 18 hours ago  
The ADRIPLAN consortium consists of a wide range of research institutes that are geographically situated in the Adriatic - Ionian Macoregion. They have a broad general expertise in the research themes included in the proposal, as well as specific expertise in the areas where they are located.  
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Layer from aleksarrett 5 days, 20 hours ago  
Focus Areas of the Adriplan project. Site link: <http://adriplan.eu/>  
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- europe\_coastline\_poly**  
Layer from geosk 3 weeks, 1 day ago  
No abstract provided  
14 views | ★★★★★ Average rating (0 votes) [Download](#) [Create a map](#)

results 1-4 of 5 | page 1 of 2

**LATEST MAPS**

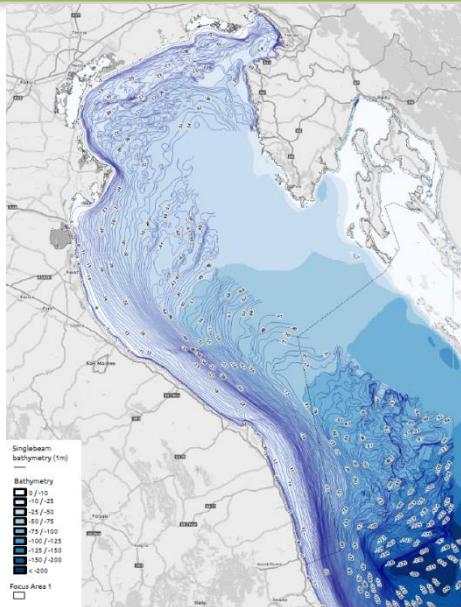
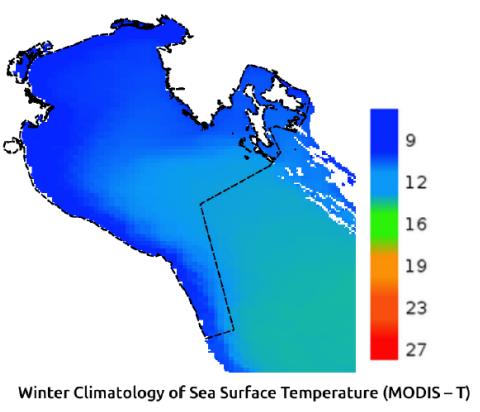
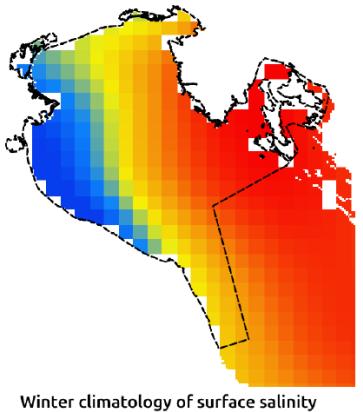
- Fisheries, Aquaculture, Marine Protected Areas**  
Map from andrea 19 minutes ago  
Map for table-working at Rijeka conference  
2 views | ★★★★☆ Average rating (0 votes) [Download](#) [View](#)
- Coastal defence and Tourism**  
Map from dianiana 19 hours, 32 minutes ago  
Supporting map for Rijeka workshop Layers from JRC EAS and SHAPE project (kindly provided by Emilia Romagna Region)  
9 views | ★★★★★ Average rating (0 votes) [Download](#) [View](#)
- ADRIPLAN Areas**  
Map from aleksarrett 3 days, 20 hours ago  
31 views | ★★★★★ Average rating (0 votes) [Download](#) [View](#)

Not a new geodatabase, but a PORTAL

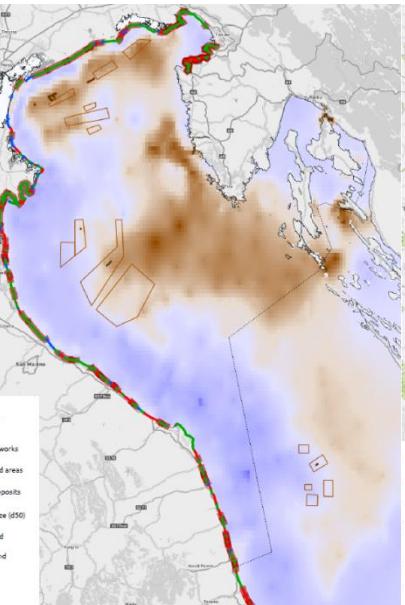
- Open source platform based on **GeoNode**
- Creation and discovery of metadata
- Upload of datasets and geospatial services
- Visualization and composition of maps
- Interoperability through standard services (OGC, INSPIRE)
- Modular and extensible

[data.adriplan.eu](http://data.adriplan.eu)





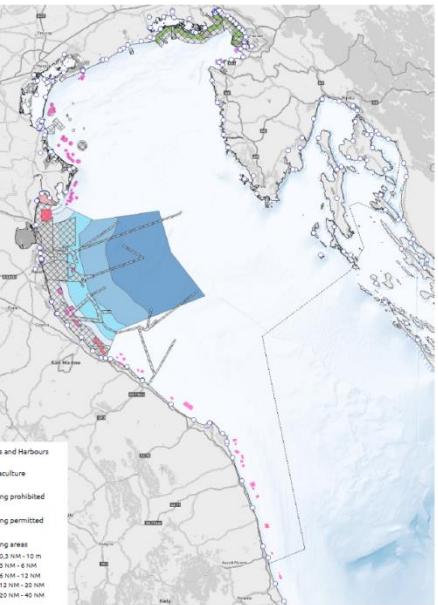
## Coasts & Sediments



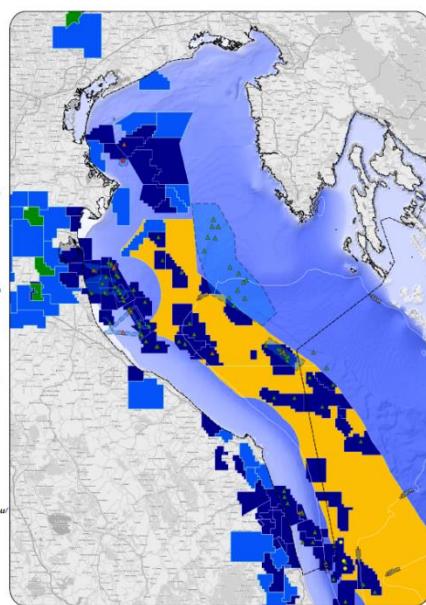
## Protected Areas



## Fishery & Aquaculture



## Hydrocarbons S&E



# MSP priorities in the AIR *(preliminary, under discussion)*

- ✓ Maritime transport (goods, passengers - cruise)
- ✓ Coastal and maritime tourism
- ✓ Fisheries
- ✓ Marine Protected Areas and Sites of Conservation Interest
- ✓ Hydrocarbons search and exploitation

Ecosystem-based management in a crowded area

FOCUS AREA 2

FOCUS AREA 1

- ✓ Hydrocarbons search and exploitation
- ✓ LNG terminals
- ✓ Fisheries
- ✓ Aquaculture
- ✓ Maritime transport (goods, passengers - cruise)
- ✓ Coastal and maritime tourism
- ✓ Coastal defense / beach nourishment

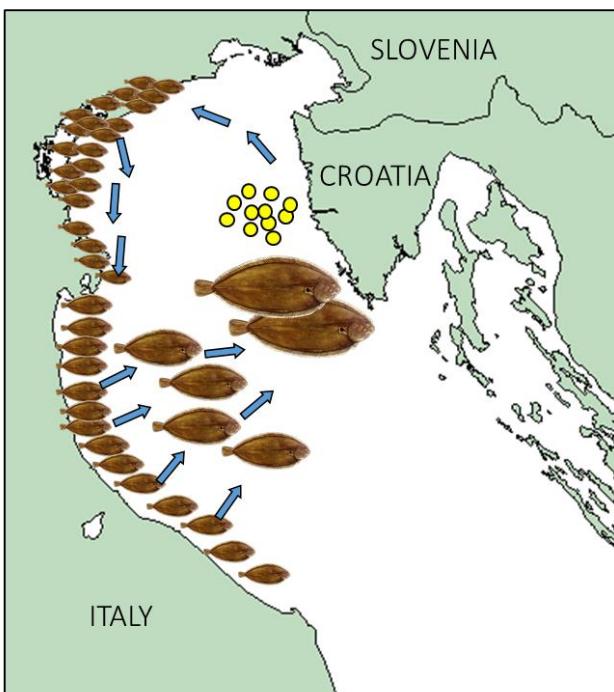
- ✓ Marine Protected Areas and Sites of Conservation Interest
- ✓ Hydrocarbons search and exploitation
- ✓ Cables and pipelines
- ✓ Wind farms
- ✓ Marine litter (foul areas)
- ✓ Fisheries
- ✓ Aquaculture
- ✓ Maritime transport (passengers - cruise)
- ✓ Coastal and maritime tourism



# MSP priorities in the AIR - Examples

**ADRIAMED**  
Working Group on Small-scale fisheries

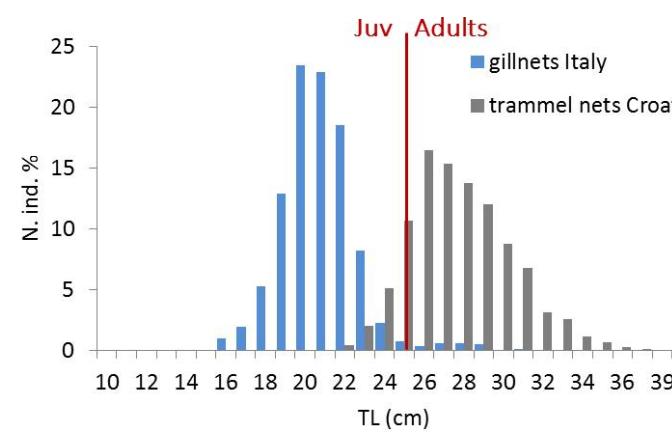
- Juveniles mainly concentrate in the Italian side and adults aggregate close to Croatian waters
- Juveniles targeted by gillnetters in Italy & adults targeted with trammel nets in Croatia (Western coast of Istria)



**Shared stocks: the case of *Solea solea***

Journal of Sea Research 84 (2013) 122–132  
 Contents lists available at ScienceDirect  
 Journal of Sea Research  
 journal homepage: [www.elsevier.com/locate/seares](http://www.elsevier.com/locate/seares)

Multi-annual investigation of the spatial distributions of juvenile and adult sole (*Solea solea* L.) in the Adriatic Sea (northern Mediterranean)  
 Fabio Grati <sup>a,b,1</sup>, Giuseppe Scarella <sup>a</sup>, Piero Polidori <sup>a</sup>, Filippo Domenichetti <sup>a</sup>, Luca Bolognini <sup>a</sup>, Roberto Gramolini <sup>a</sup>, Claudio Vasapollo <sup>a</sup>, Oretto Giovanardi <sup>b</sup>, Saša Raicevich <sup>b</sup>, Igor Celić <sup>b</sup>, Nedro Vrgoč <sup>c</sup>, Igor Isajlović <sup>c</sup>, Aljaž Jenič <sup>d</sup>, Bojan Marčeta <sup>d</sup>, Gianna Fabi <sup>a</sup>





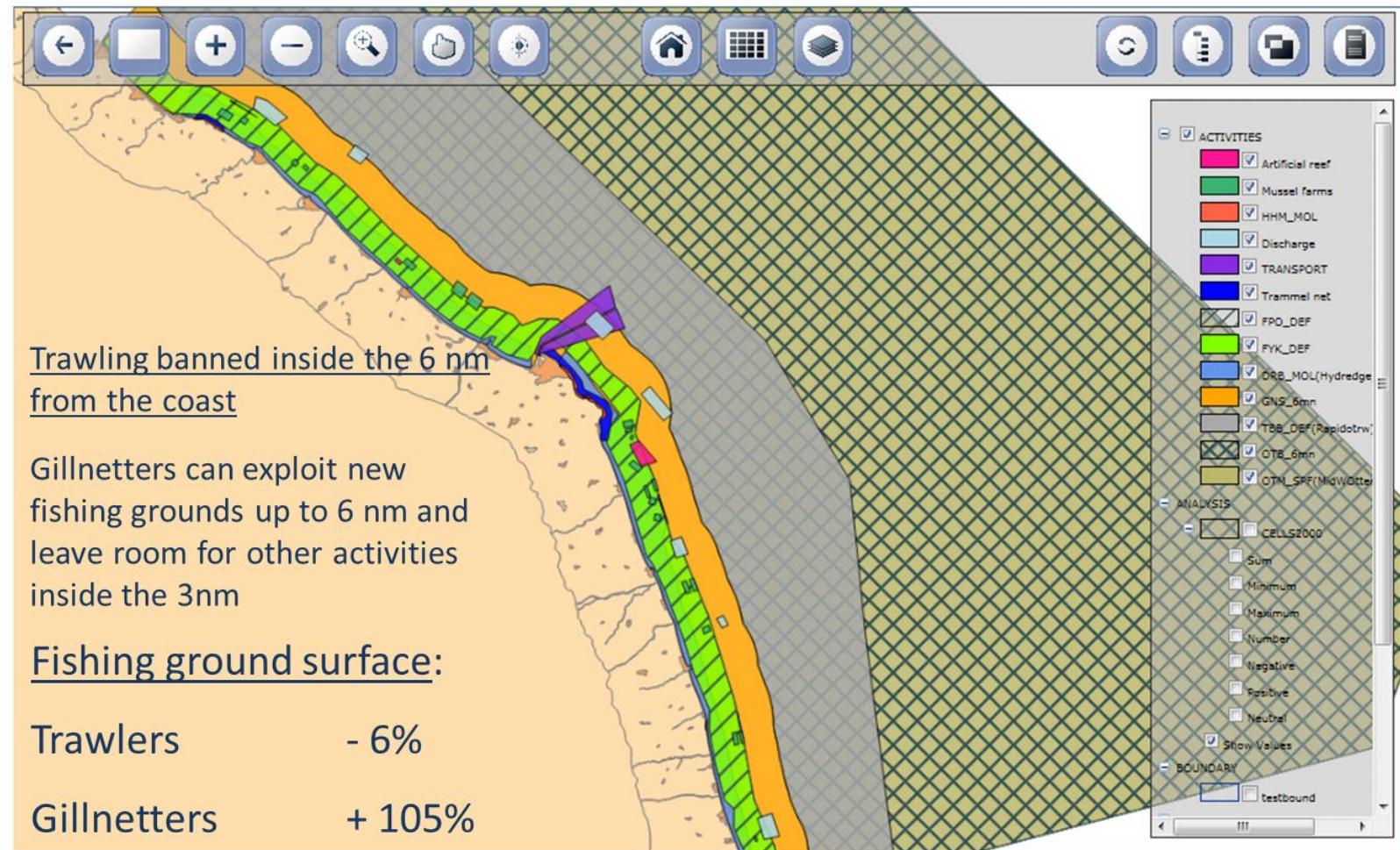
**Fisheries  
(small-scale  
and trawling)**

Courtesy of F. Grati



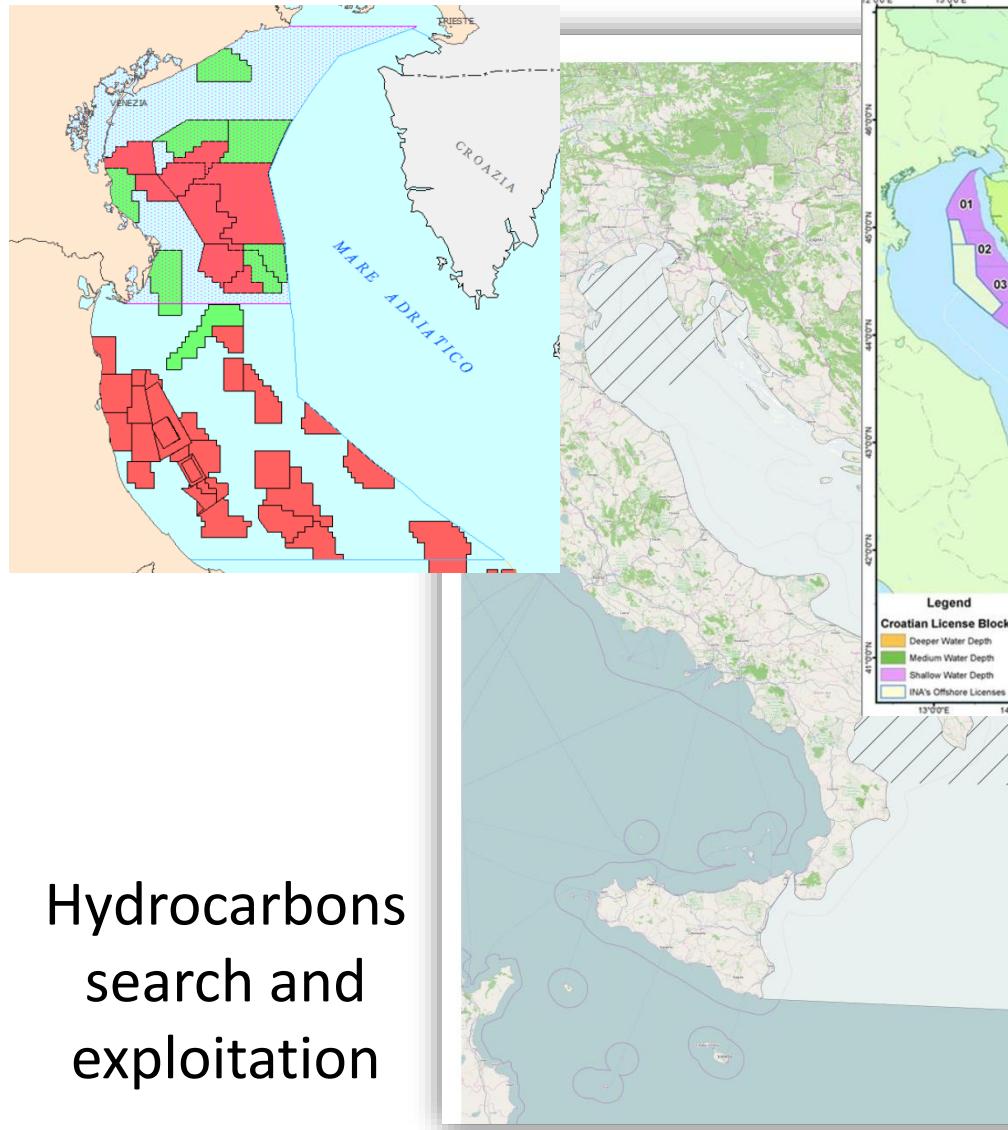
# GeoReference Interaction Database

v. 1.2

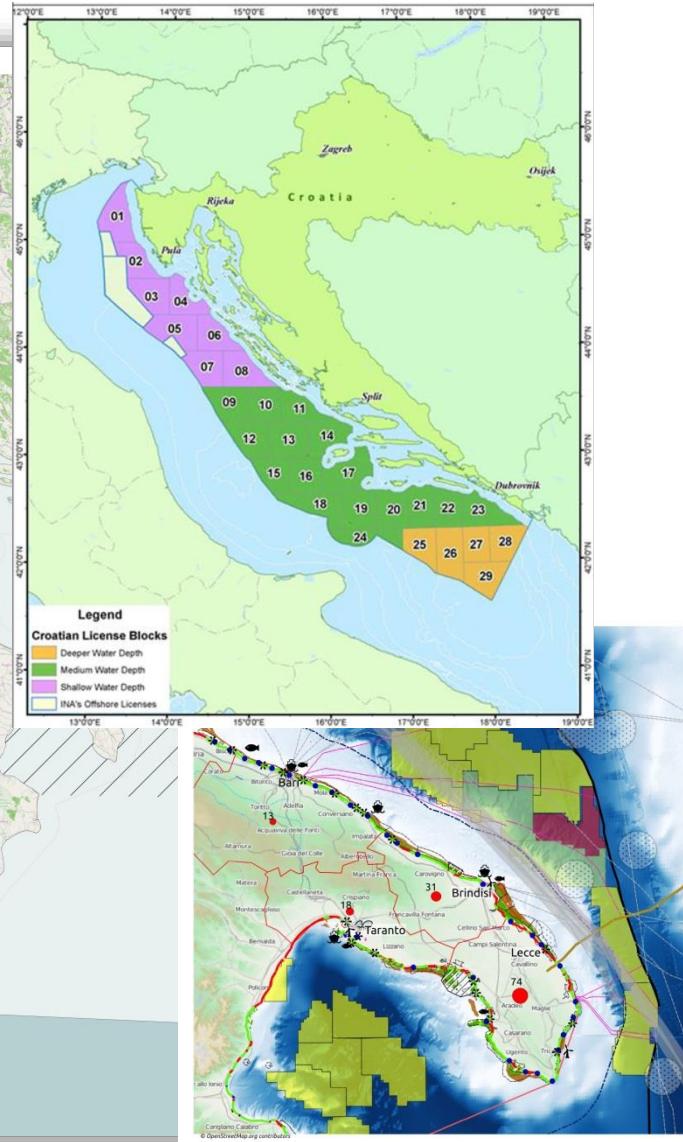


Courtesy of F. Grati

# MSP priorities in the AIR - Examples



Hydrocarbons  
search and  
exploitation



# MSP priorities in the AIR - Examples



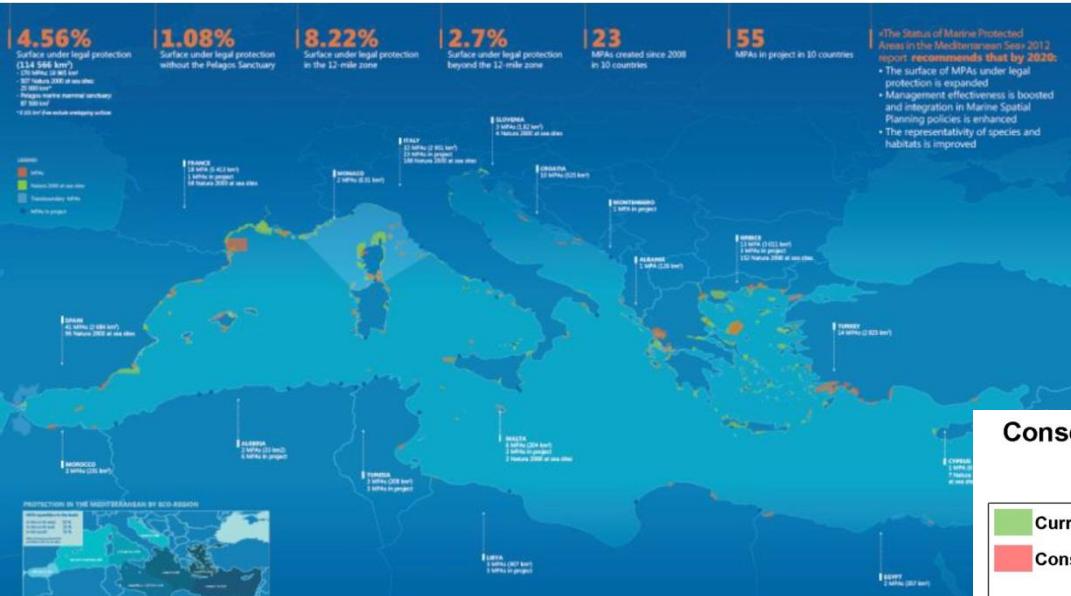
- “2030 NAPA Potential Development Scenario”**
- Total growth of 227% for North Adriatic ports compared to 66% market growth to reach **5.9 MTEU**
- North Adriatic share increases from 5.5% to 11.3%
- Northern Range maintains 55% market share, but European transport system more balanced

	2012	NAPA Development Scenario	Increase 2012-30
NAPA	1.8	5.9	+227%
Northern Range	20.3	28.9	+42%
Tyrrhenian	3.6	6.5	+81%
Black Sea	0.3	0.6	+100%
Other	5.6	10.5	+88%
Total	31.6	52.4	+66%

Maritime transportation  
(Northern Adriatic Ports)

NAPA, 2014

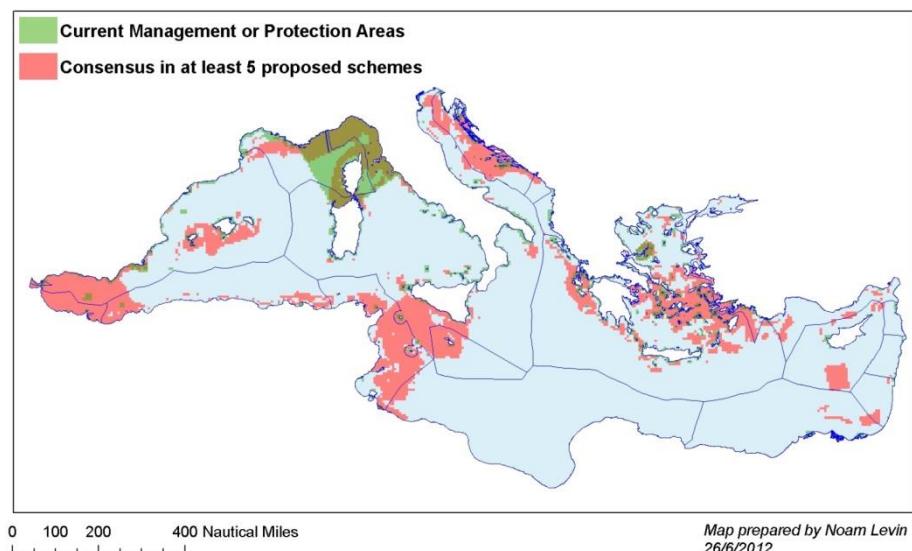
# MSP priorities in the AIR - Examples



Gabriè et al., 2012

**Network of MPAs**  
*Increase ecological coherence and management performance*

Consensus Conservation Priorities not Addressed by Current Marine Management or Protection Measures in the Mediterranean

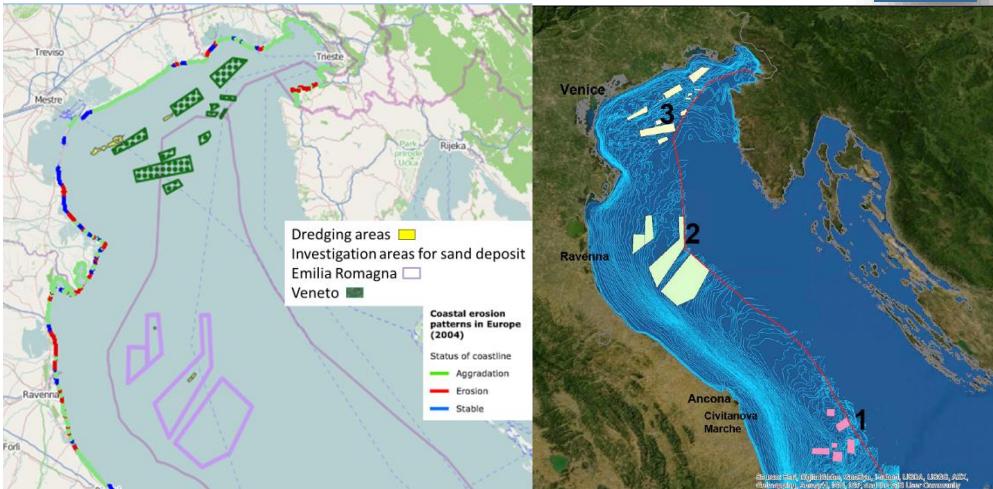


Micheli et al., 2013, Courtesy of S. Fraschetti

# MSP AND ICM

Examples from the Northern Adriatic Sea

- ✓ Maritime and coastal tourism needing coastal protection / coastal defense interventions, also as CCA measures



- ✓ Maritime and coastal tourism and potential conflicts with aquaculture





# TAKE-HOME MESSAGES

1. **MSP importance.** Need to be further demonstrated?
2. MSP is just a tool to give reality to a (common) **vision of our sea** (defensive vs proactive attitude)
3. MSP is **real life.** Make its added value evident to local (coastal) communities
4. **Transnational dimension** is important (clearly emerged in this workshop)
5. Think transnationally but **act regionally / locally**
6. Harmonization with other EU and Intl. policies (i.e. ICZM Protocol and MSFD)
7. Governance at national and international (EU, non EU) level is foreseen as a key issue
8. Stakeholder consultation and involvement is both **necessary** and **very difficult.**

ADRIPLAN Team thanks you  
for your attention

andrea.barbanti@ve.ismar.cnr.it

