



National Research Council
INSTITUTE OF MARINE SCIENCE

**The bare necessity of Maritime Spatial Planning in the
Mediterranean Sea**

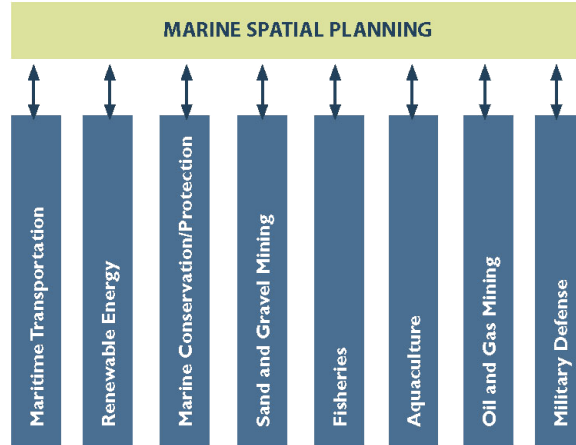
Andrea Barbanti, PhD – CNR-ISMAR Venice, Italy

*Il sistema marino costiero – Networking territoriale della conoscenza: “un’opportunità per la
Regione Emilia-Romagna”*

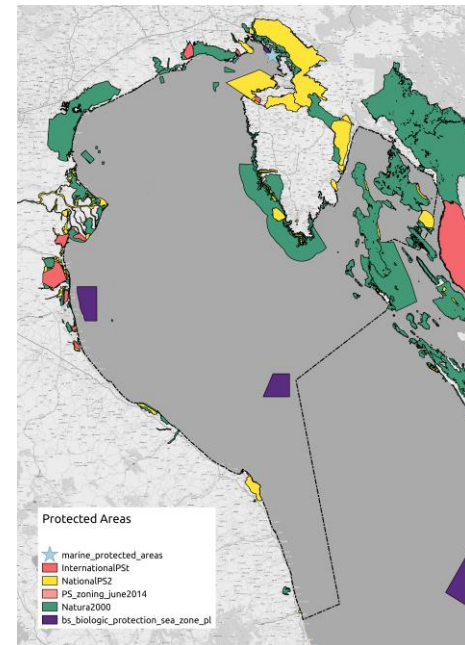
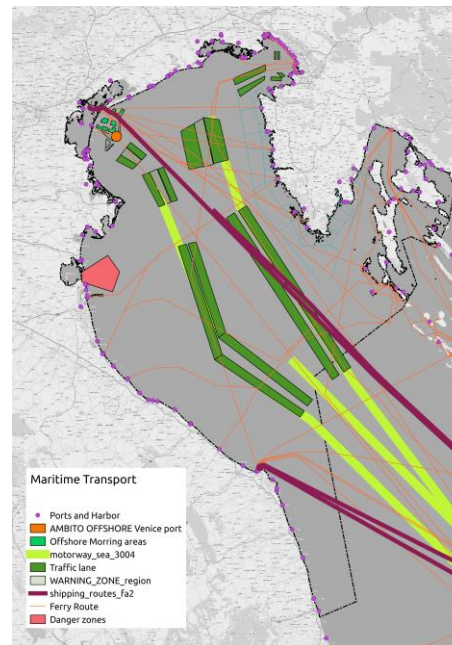
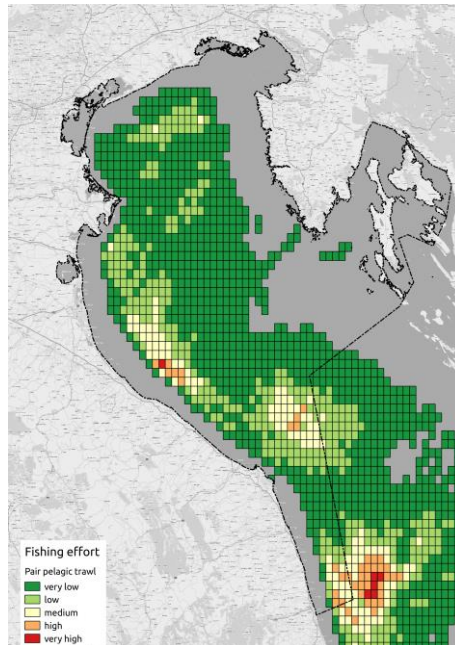
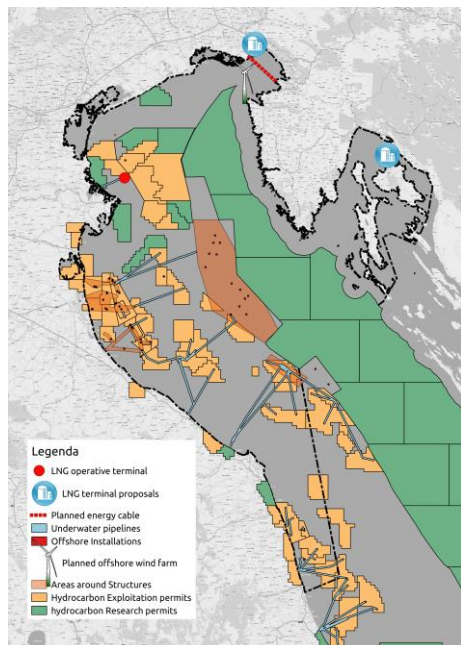
Bologna, 8 Giugno 2015

USES OF OUR SEA

Today

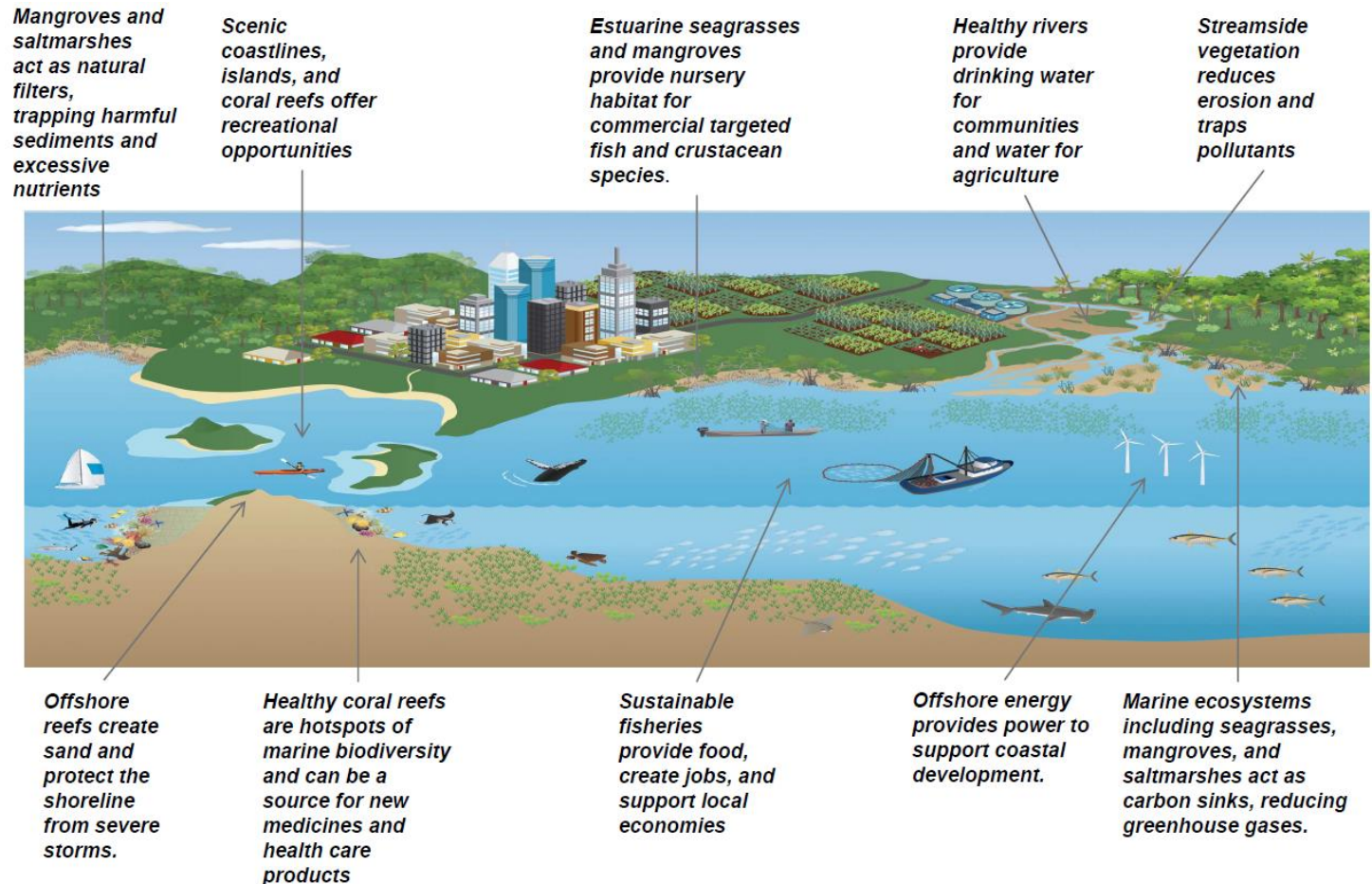


MSP is a practical way to create and establish a more **rational organization of the use of marine space** and the **interactions between its uses**, to **balance demands for development** with the need to **protect marine ecosystems**, and to achieve social and economic objectives in an open and **planned way**.
(Ehler & Douvère, 2006)



ECOSYSTEM-BASED MANAGEMENT

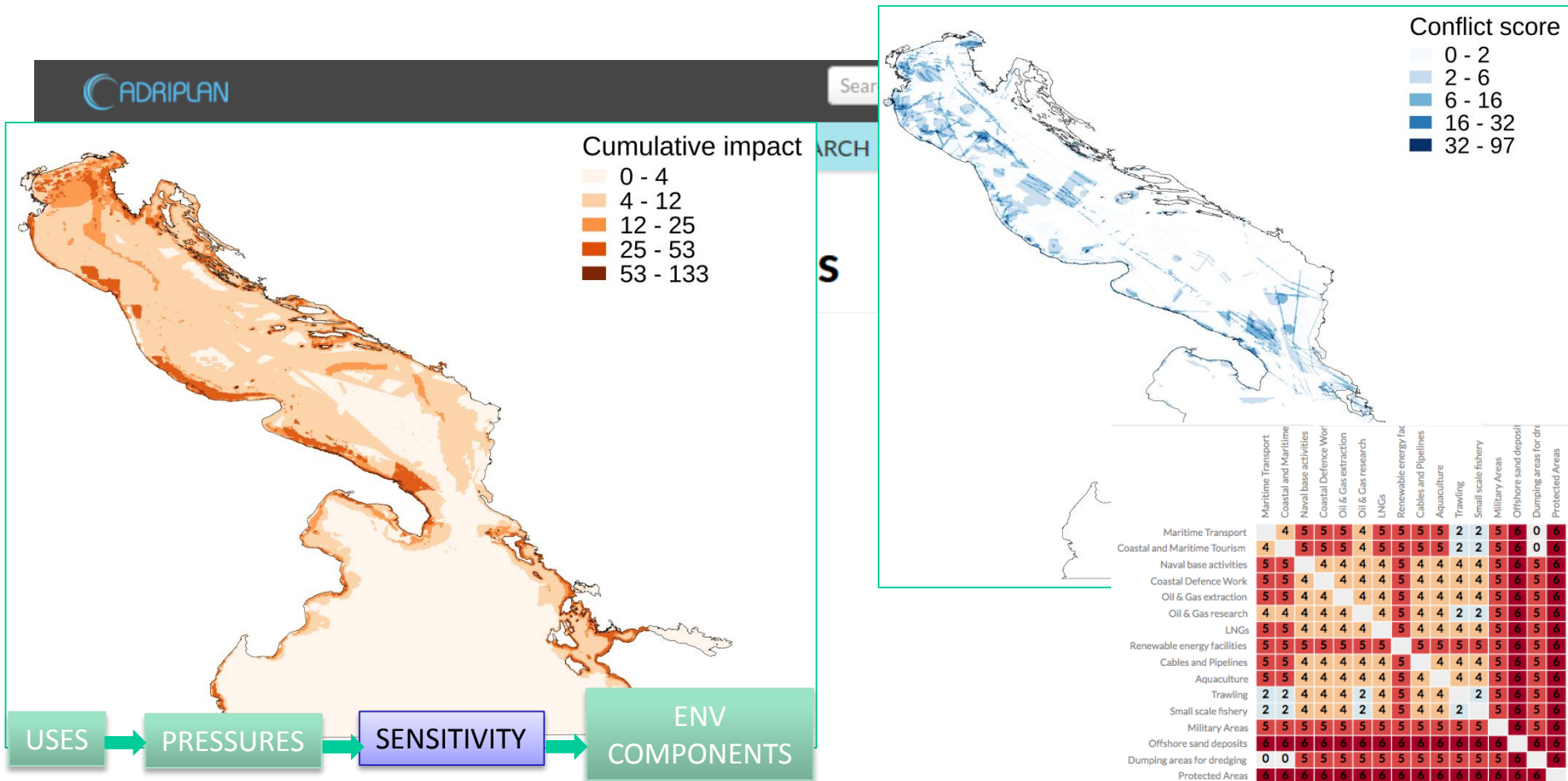
EBM shall provide sustainable delivery of ecosystem services in an equitable way



MSP Tools

Work in progress..

- Moving from data inventory, to integration within the ADRIPLAN methodology, to supporting tool for MSP planning

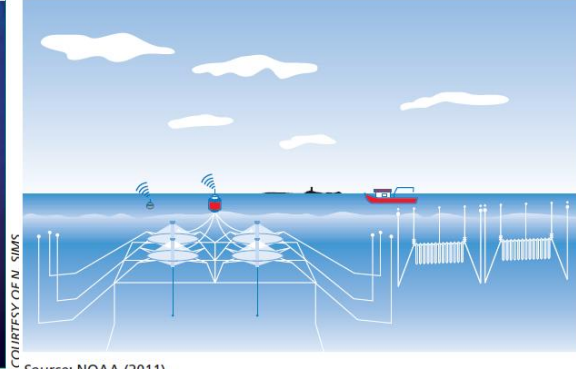


CNR-ISMAR - IUAV – Methodologies adapted from Halpern et al., 2008 and COEXIST Project



USES OF OUR SEA

Tomorrow

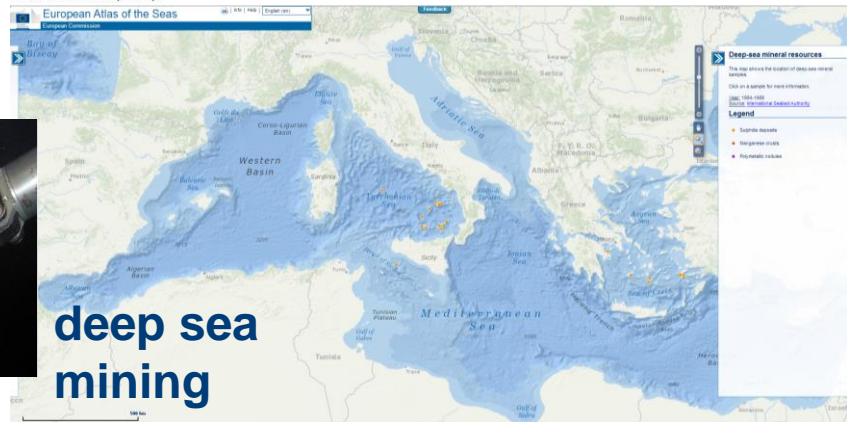


**multitrophic
and
offshore
aquaculture**

Source: NOAA (2011).



**floating
cities**



**deep sea
mining**

multipurpose platforms



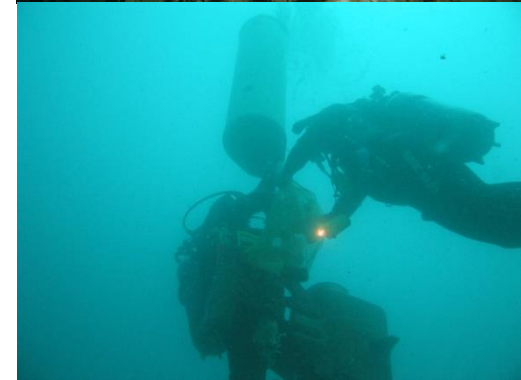
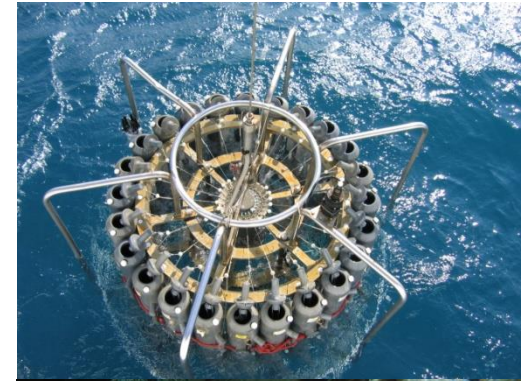
**artificial
islands**



Tropos

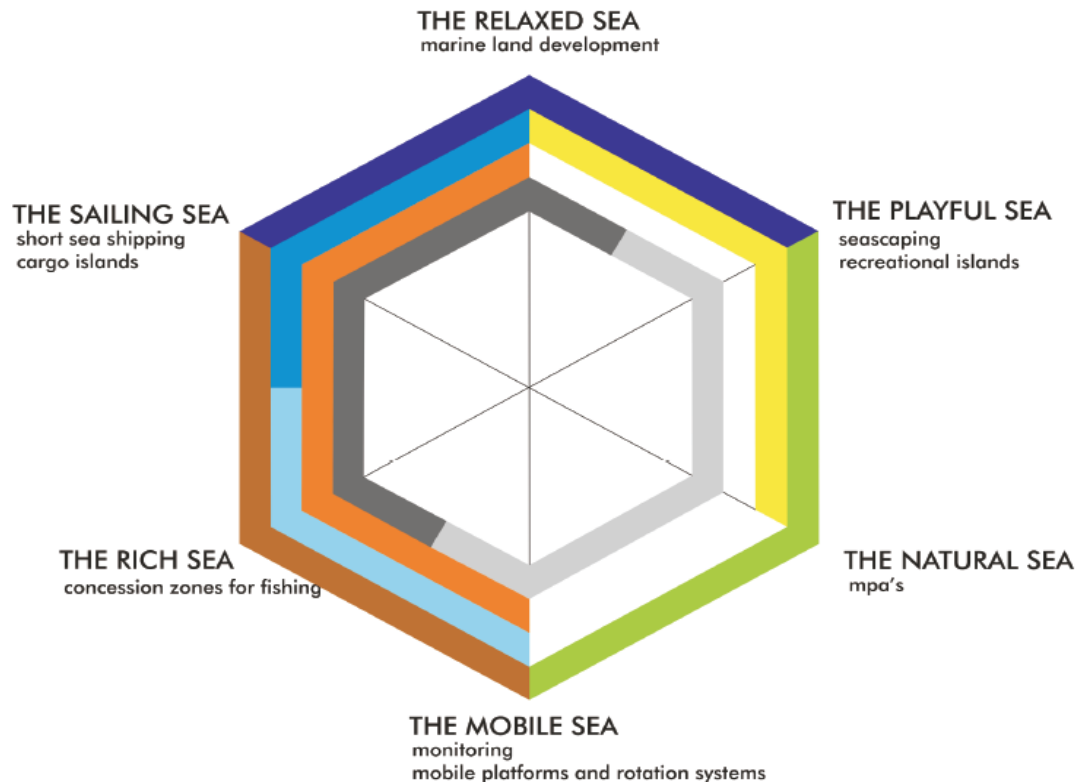
DIRETTIVA 2014/89/UE – UN QUADRO PER LA PIANIFICAZIONE DELLO SPAZIO MARITTIMO

- Gli SM devono mettere in vigore le disposizioni legislative, regolamentari e amministrative necessarie per conformarsi alla direttiva entro il **18 settembre 2016**
 - Ogni SM deve designare le autorità competenti entro il **18 settembre 2016**
 - I Piani di gestione dello spazio marittimo dovranno essere stabiliti non oltre il **31 marzo 2021**
 - I Piani devono essere rivisti almeno ogni **10 anni**
- I piani dovranno tener conto delle **interazioni terra – mare** e degli **aspetti ambientali, economici e sociali** e di sicurezza
 - Art 8 individua attività, usi e interessi da considerare: **acquacoltura, pesca, infrastrutture per lo sfruttamento e l'estrazione del petrolio, gas e altre risorse energetiche, trasporti, zone militari, siti di conservazione della natura, estrazione di materie prime, ricerca, cavi e condutture, turismo, patrimonio culturale**
 - **cooperazione** tra SM e paesi terzi e la **partecipazione** delle parti interessate



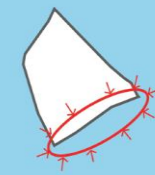
Vision and Objectives for MSP

You need first of all to develop and agree on a **VISION**, and then define **MANAGEMENT OBJECTIVES**
 (“think transnationally but act regionally / locally”)




The six Scenarios developed during the pilot study of spatial planning on the Belgian part of the North Sea (3.600 km²) (GAUFRE – Maes at al., 2005)

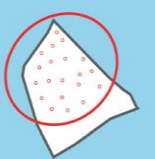
the relaxed sea



concentration and intensification of activities in the coastal area (seaside and landside)




coastal area as a network of complementary activities (tourism - marine land development - ...)




activities that cause disturbance to tourism and recreation are located in the deep sea

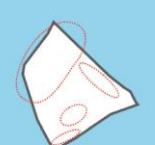
the rich sea



concentration of economic activities in a central area



most important economic activities (fishing, sand & gravel extraction, wind parks) are allocated to a specific area (concession zones) based on economic suitability

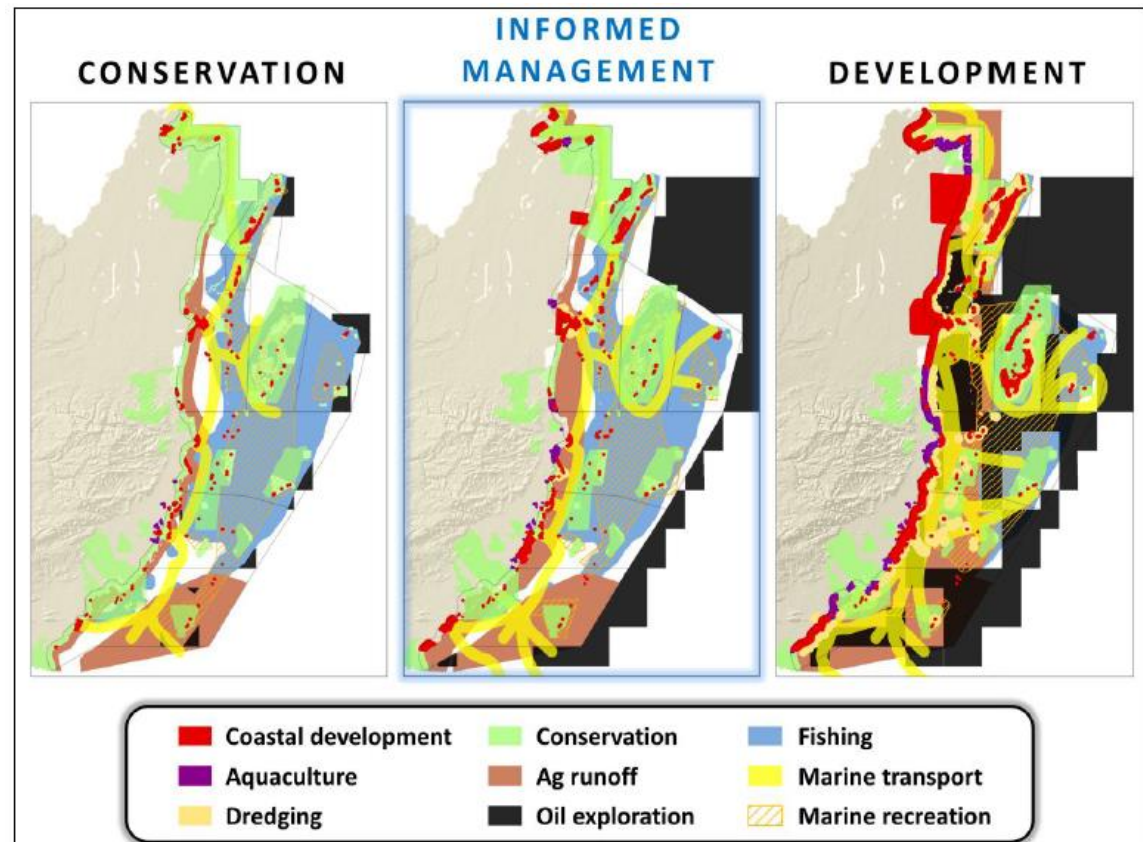


natural and other 'sheltered' areas (wind parks, deep sea) function as storage rooms (additional possibilities for fishery and aquaculture)

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EUSAIR VISION: EUSAIR ACTION PLAN (COM(2014)357 FINAL)

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

Examples of targets by 2020:

- Adoption of maritime spatial planning and integrated coastal management strategies by EU Member State by 2017 and for coastal candidate and potential candidate Countries by 2018

ICM/MSP AS A CHALLENGE FOR SCIENCE-TO-POLICY

DIKW: the "Knowledge Hierarchy"



Knowledge needed as:

- Conceptual and methodological approaches
- Knowledge of system functioning at different spatial scales and with time
- Data and tools to support decisions

MSP is now well acknowledged in recent R&I Agendas
(e.g. JPI-OCEANS, 2015; BLUEMED, 2015; Seas-ERA, 2012)

ICM/MSP	Sviluppo concreto della pianificazione integrata ICM/MSP a scala di AIR e su aree limitate e specifiche esigenze, capitalizzando su progetti come SHAPE e ADRIPLAN
Turismo costiero e marittimo sostenibile	Declinazione degli approcci ICM/MSP sulle problematiche specifiche e peculiarità del turismo costiero e marittimo, a scala locale e di AIR
Adattamento ai cambiamenti climatici	Approccio integrato fisico-ecosistemico per l'adattamento ai CC nella AIR
AMP e Aree Natura 2000 costiere	Attività di sostegno allo sviluppo ed implementazione dei Piani di Gestione (ad esempio Riserva della Biosfera MAB-UNESCO - Delta del Po)
SDI / Sistemi di Supporto alle Decisioni	Creazione di una <i>Spatial Data Infrastructure</i> permanente, basata su <i>Open Data policies</i> e cooperazione fra tutti i paesi della Regione, di supporto all'implementazione di ICM-MSP ed alla realizzazione di specifici piani nella AIR
Trasferimento di R&I e <i>capacity building</i> per MSP	Costituzione di una rete stabile e permanente di punti di contatto fra Enti e Amministrazioni della Regione, con uno specifico e strutturato programma di azioni, per l'orientamento ed il trasferimento di R&I e per il <i>capacity building</i>

Thank you for your
attention

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