





Workshop 'Maritime Spatial Planning in Small Sea Spaces'

The pilot experience of Emilia-Romagna Region: a case study toward the Italian maritime spatial planning approach

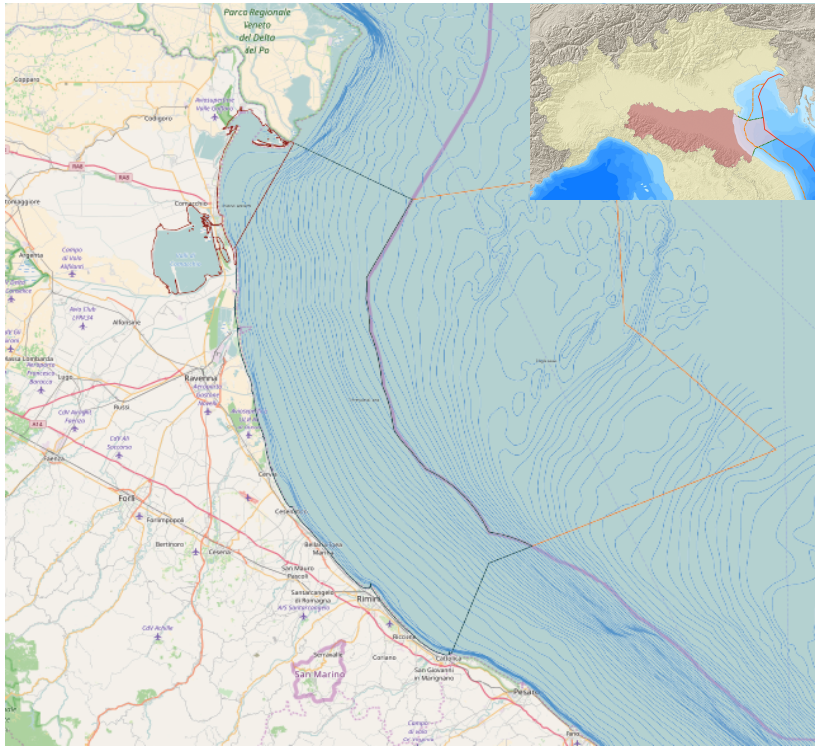
Andrea Barbanti, PhD - CNR-ISMAR, Venice, IT

EUROPEAN COMMISSION

DIRECTORATE-GENERAL FOR MARITIME AFFAIRS AND FISHERIES

European MSP Platform

Planning the Emilia-Romagna coast and sea
A «Multi-Scalar Informal Plan»



Sub-case 2-a:
areas with **no** spatial overlap

or?

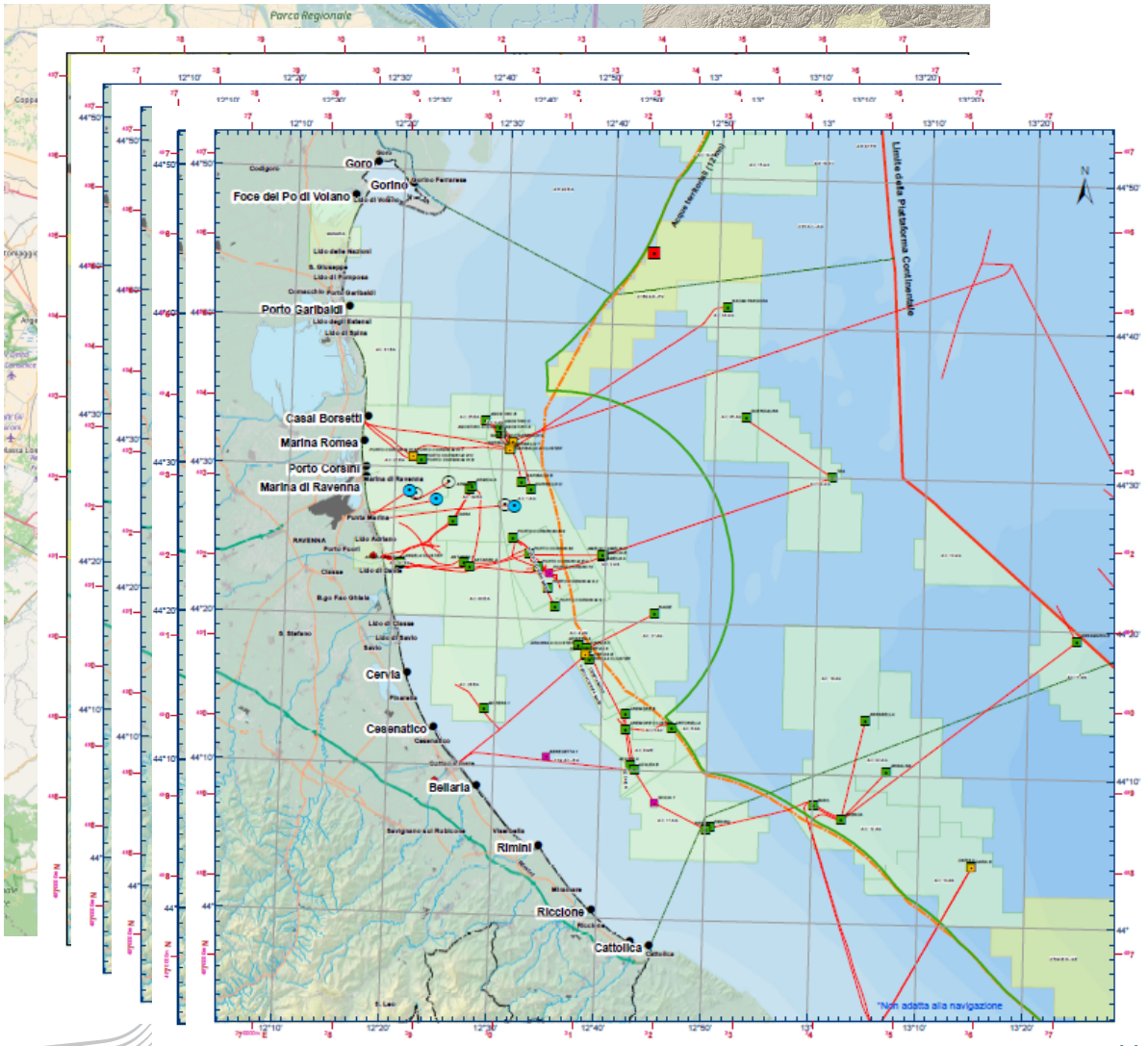
Sub-case 2-b:
areas **with** spatial overlap
(«nested approach»)

DECRETO DEL PRESIDENTE DEL CONSIGLIO DEI MINISTRI 1° dicembre 2017.

Approvazione delle linee guida contenenti gli indirizzi e i criteri per la predisposizione dei piani di gestione dello spazio marittimo.

- ✓ Art.13 - …part of the Maritime Area «Adriatic Sea»
- ✓ Art.13.2 - …possible Maritime sub-Areas with small scale, nested plans

The Emilia-Romagna Coast & Sea – Facts and Figures

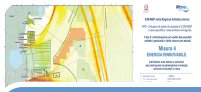


- 120 km of coastline
- 5.300 km^2
- 14 municipalities
- 526.000 residents
- 38.000.000 annual overnight stays
- 24 marinas with 6.250 berths
- 1 commercial port (Ravenna)
- 9 fishing ports and 650 fishing boats
- Intensive aquaculture (40.000 t/y mussels and clams)
- 60 Gas extraction Platforms and Terminals

The process

Funded by IT Ministry for University and Research

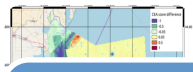
Collaboration between CNR-ISMAR and Emilia-Romagna Region



Update of the Assessment from previous projects

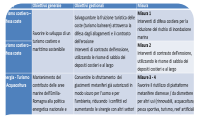


Expected Trends



Analysis

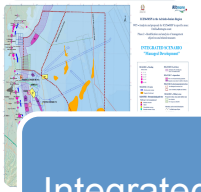
- Conflicts and synergies
- Cumulative Impacts



Vision and Management Objectives



Portfolio of Measures



Integrated Scenario

Discussion with «Stakeholders»
(Emilia-Romagna Region Departments and Services)







EUROPEAN COMMISSION

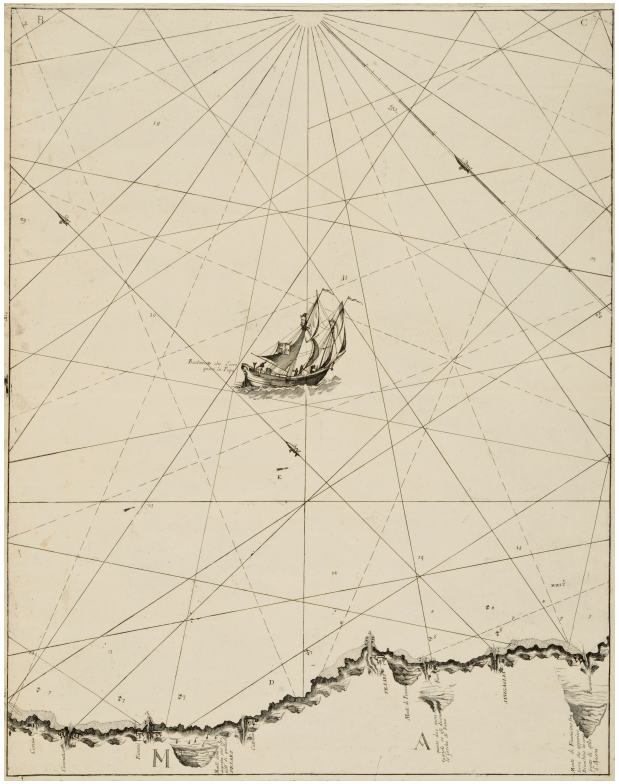
DIRECTORATE-GENERAL FOR MARITIME AFFAIRS AND FISHERIES

Maritime Spatial Planning Conference
On Blue Growth
Brussels – 11 & 12 October 2017

European MSP Platform

Vision and Objectives

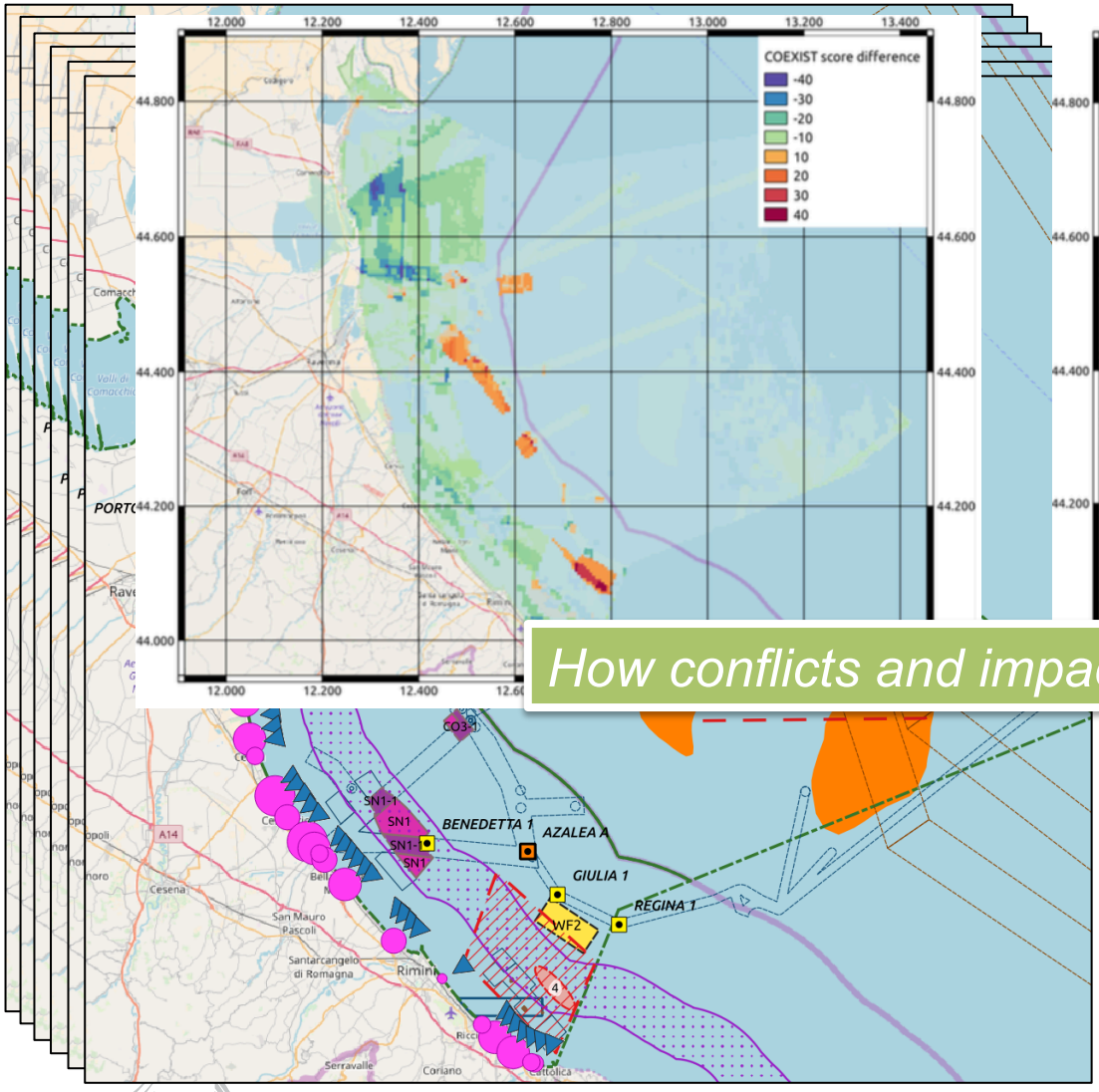
Coastal and Maritime Tourism, and its value chain, is the **pivotal use for the area**. Tourism infrastructures and activities shall **respect natural coastal dynamics and the needs of other uses**, for a balanced and long-term co-evolution. Coexisting uses shall **not compromise the resources** (e.g. nature, water quality, landscape) **on which tourism is based**, but look for all possibile synergies.

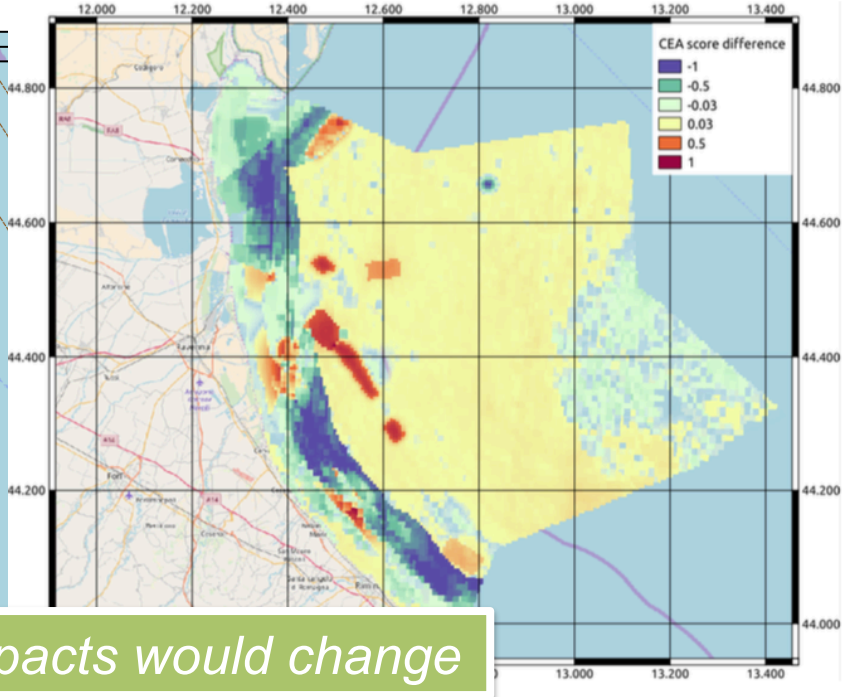


Strategic and Management Objectives and Measures on:

- *Tourism*
- *Energy*
- *Fishery and Aquaculture*
- *Environmental Protection*
- *Coastal Defense*
- *Military Uses*

Portfolio of Measures and Integrated Scenario *(«Managed Development»)*





How conflicts and impacts would change

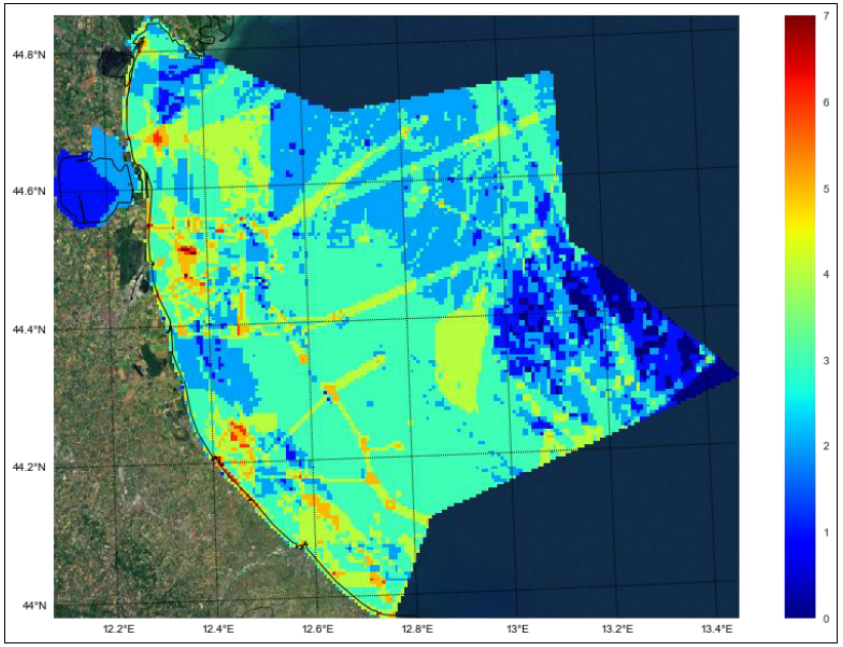
Overall criteria:

- ✓ *Maintaining / developing existing uses*
- ✓ *Reducing conflicts among uses*
- ✓ *Exploiting synergies*
- ✓ *Reducing impacts on ecosystems*

Food for thoughts

Concentration of uses / Hot Spot Areas

- One of the characteristics of Small Sea Spaces is the concentration of uses
- Is this an Hot Spot Area?
- Concentration of uses requires high resolution planning
- Specific Vision and Management Objectives are needed and can be actually defined (or proposed)
- Interaction with stakeholders at this scale is intense but manageable
- Data demanding, maintaining data coherence with the wider picture

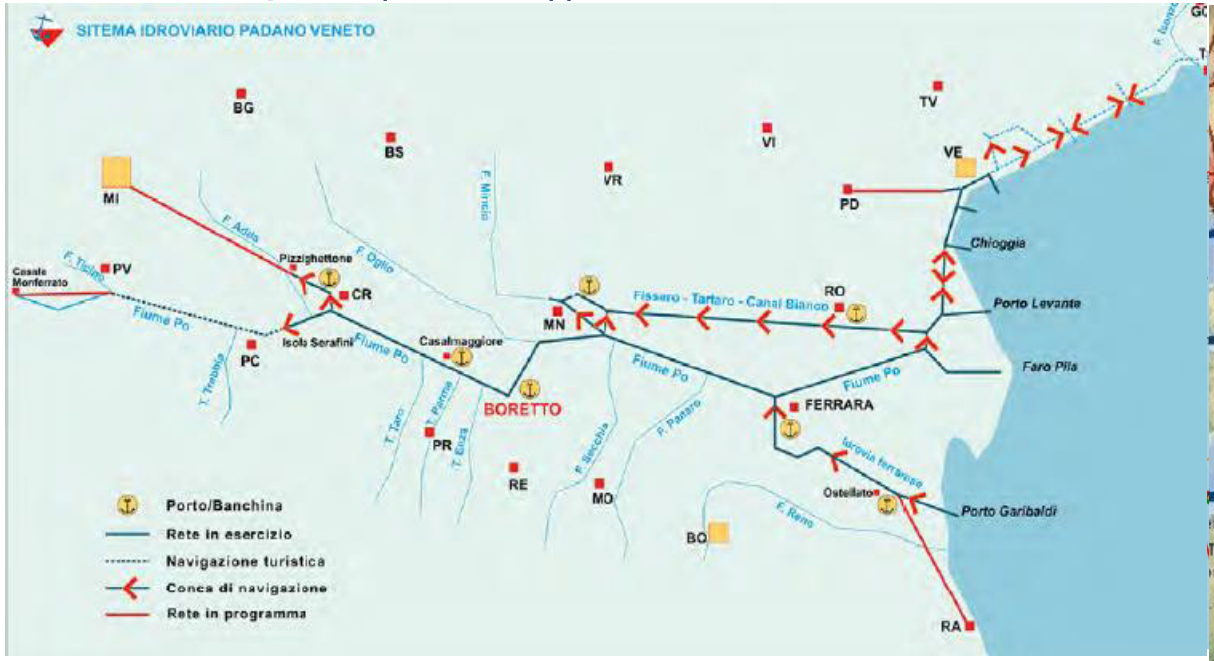


Number of uses distribution

Food for thoughts

Integrated planning and coherence of plans

- Coherence with large-scale Vision
- Coherence with wider Strategic Plans (e.g. National Energy Plan, National Plans on Fishery and Aquaculture, Trans-European Networks – Transport (*TEN-T*))

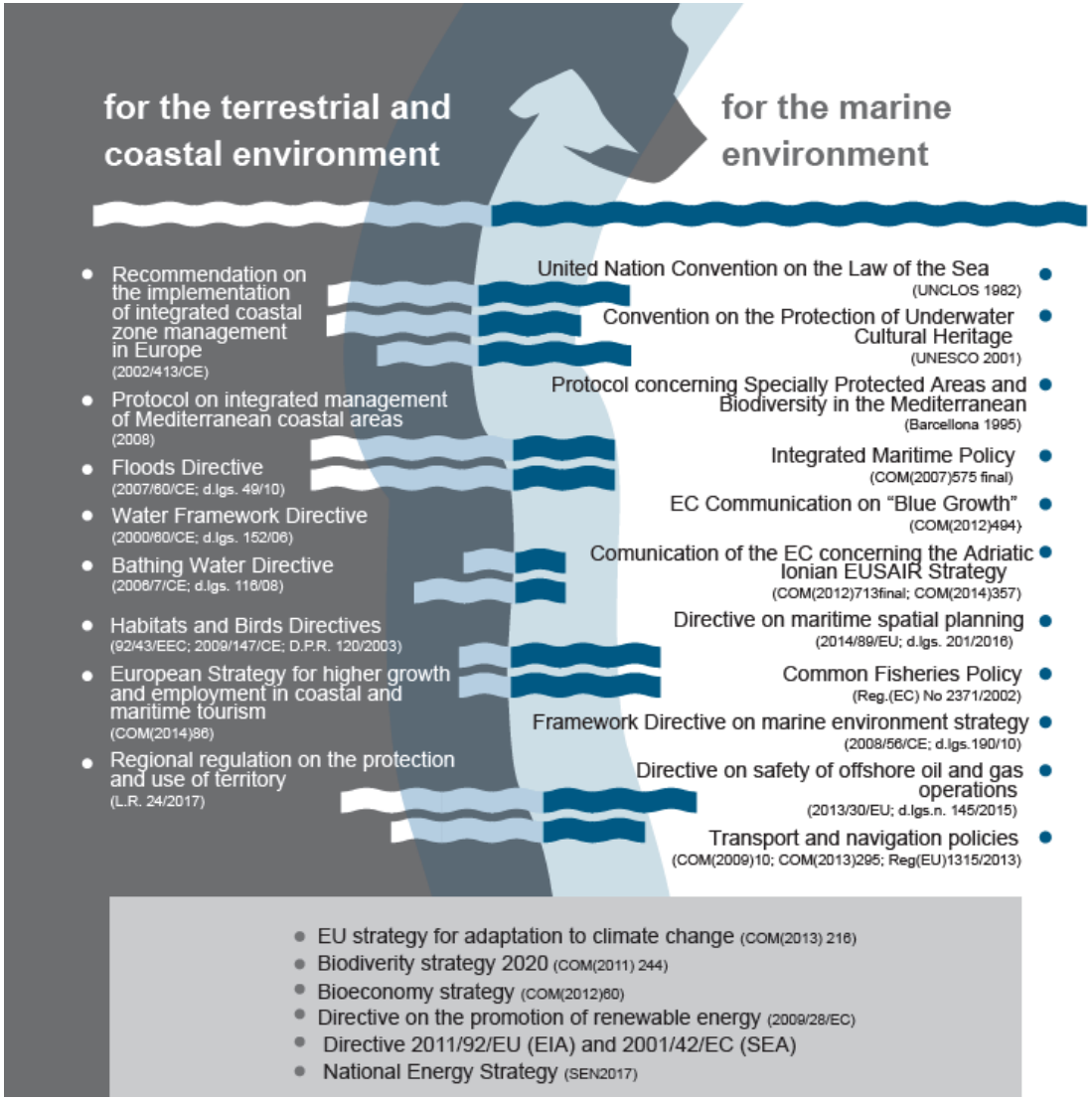




Food for thoughts

Land Sea Interaction (LSI)

- Tourism and coastal defense (Climate Change Adaptation) are the key LSI drivers in the area
- Coordination between plans on land and at sea: easier to be done at this scale?
- Transect Planning Approach?



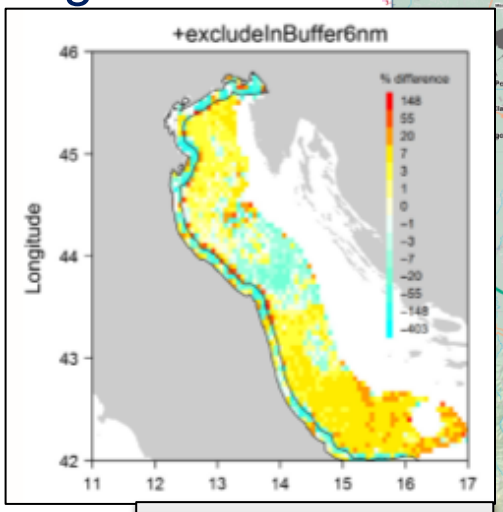
Food for thoughts

EBA – Ecological coherence of analyses and measures

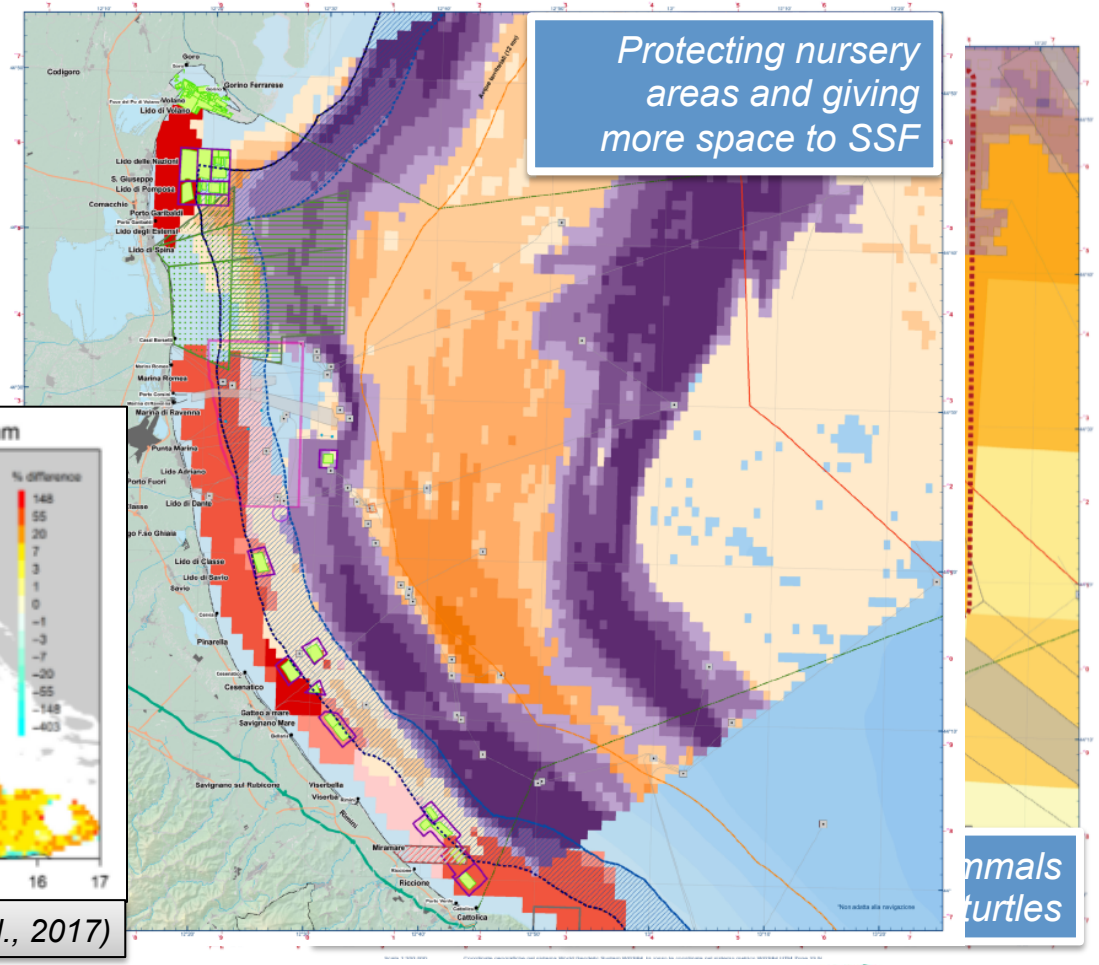
- Need to take into account "functional boundaries of the ecosystems"

and

- impact / effectiveness of measures at larger scale

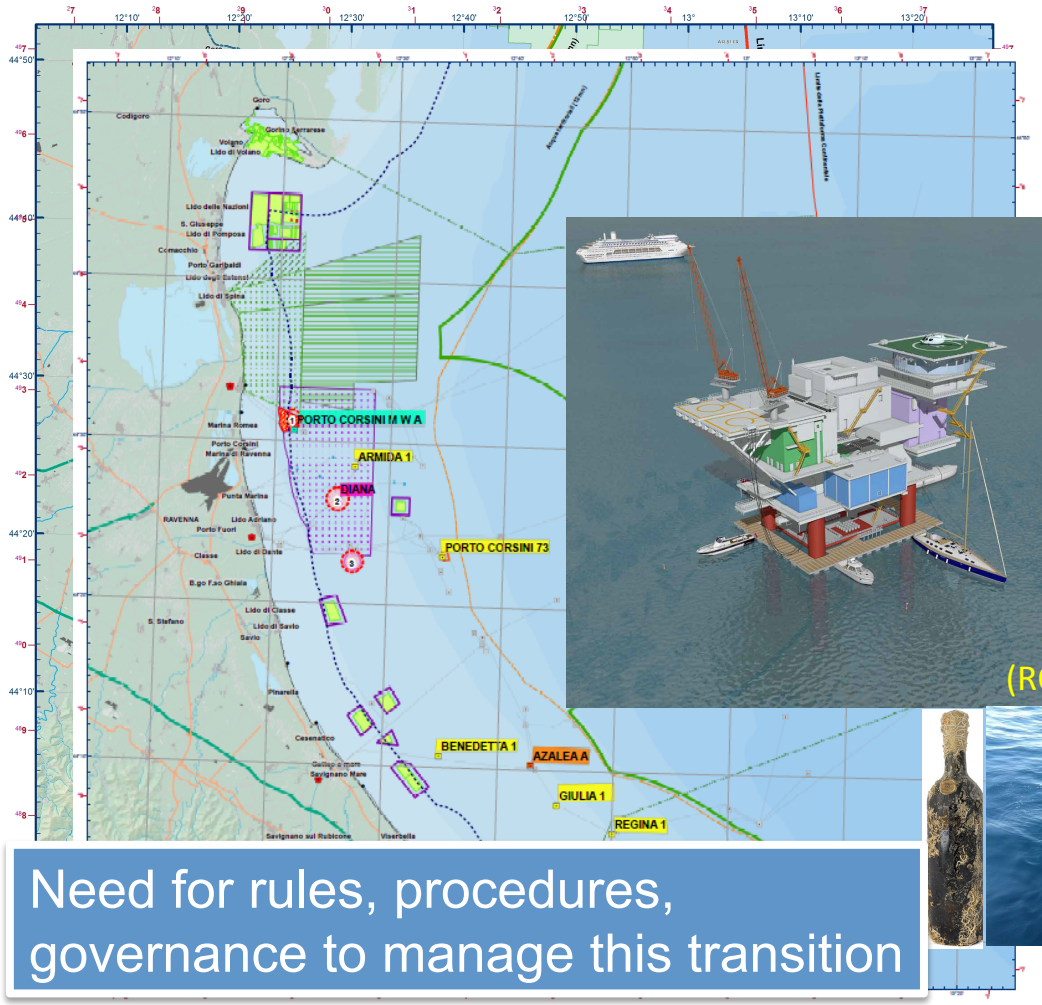


(Bastardie et al., 2017)



Food for thoughts

Integrated governance



O&G exploitation and other uses coexisting since the 60's

Decommissioning scenarios:

- *potential multi-uses (aquaculture, renewables, recreational)*
- *artificial reefs and related touristic uses*

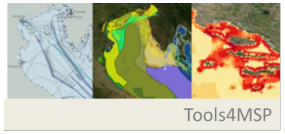


Need for rules, procedures, governance to manage this transition

Thank you for your attention

Acknowledgments

- RITMARE *(Italian Flagship Project on Marine and Maritime Research)*
- Emilia-Romagna Region *(General Direction for Territory and Environment)*



- TOOLS4MSP Group – CNR-ISMAR Ve – www.tools4msp.eu; tools4msp@ismar.cnr.it
- F. Grati, L. Bolognini – CNR-ISMAR An
- R. Pastres – DAIS-UNIVE
- L. Perini – Emilia-Romagna Region

Most recent publications and projects:

Depellegrin et al., 2017. doi:10.1016/j.scitotenv.2017.07.264.

Barbanti et al., 2017. https://doi.org/10.5281/zenodo.1116717; https://doi.org/10.5281/zenodo.1116740

EUROPEAN COMMISSION

DIRECTORATE-GENERAL FOR MARITIME AFFAIRS AND FISHERIES

Maritime Spatial Planning Conference
On Blue Growth
Brussels – 11 & 12 October 2017

European MSP Platform