Harnessing Natural Capital to Deliver Blue Growth:

Lessons Learned from the Ecosystem Approach

Michalis Skourtos

On behalf of STAGES, MISIS and PERSEUS Projects

European Maritime Day, Malta, 21-22 May 2013



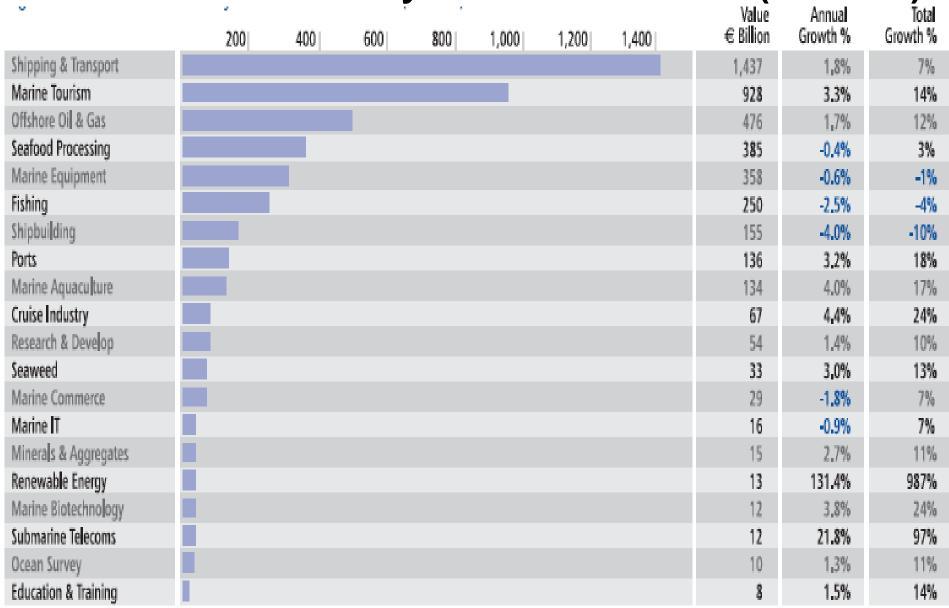
YOUR ATTENTION PLEASE!

This is (should be) an interactive presentation

You are welcome to interrupt, intervene, ask or criticize along the talk!

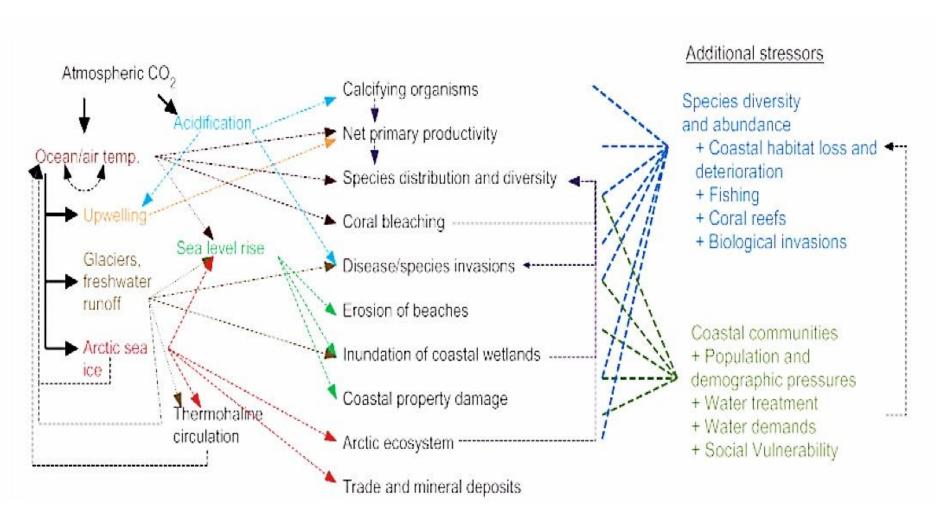


World Marine Industry Sector 2005–2009 (€ billion)



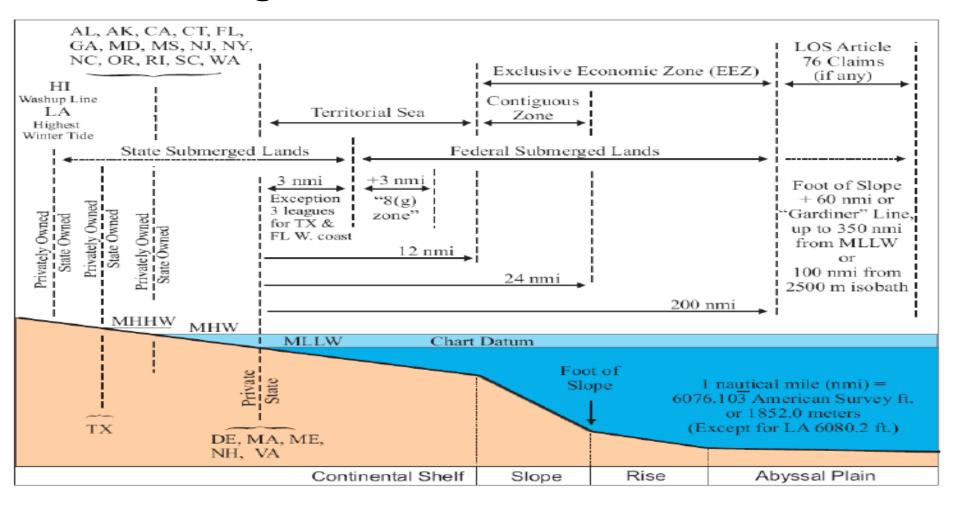
Source: Douglas-Westwood Ltd (2005).

Stressors of Coastal and Marine Ecosystems



Source: Kling and Sanchirico (2009)

The web of property rights: Private, State, & Federal Rights to Coastal & Marine Resources



Notes: LOS=Law of the Sea, MHW=Mean High Water, MHHW=Mean High High-Water, MLLW=Mean Lower Low-Water Mark

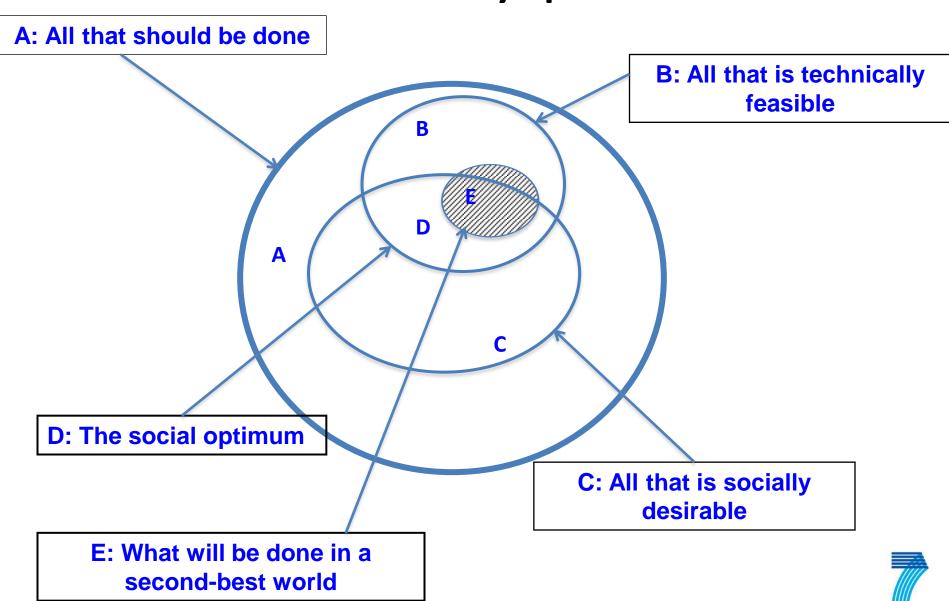


Stakeholder Dialogue: We give you the facts, you give us the ideas!

- EBM is a complicated task
- The voice of society
- The role of science

Share control over research!

The Policy Space





STAGES (FP7 ENV 2012) - Science and Technology Advancing Governance of GES

Improve the current scientific knowledge base and connect science to policy to help achieve GES in marine waters and support MSFD implementation

THE PARTNERSHIP

Name
Centro Tecnológico del Mar – CETMAR
Fundacao Eurocean
Institut Francais de Recherche pour Iéxplotation de la Mer-IFREMER
Fondation Europeenne de la Science EU-MB
AquaTT UETP Ltd
International Council for the Exploitation of the Sea-ICES
JRC-Joint Research Centre-European Commission
Institute of Marine Reserach – IMR

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Organisation
DG ENV
EEA
OSPAR
HELCOM
BONUS
Black Sea Commission
Ministry Agriculture, Food and Environment-SP
MINISTÉRIO DA AGRICULTURA, DO MAR, DO AMBIENTE E DO ORDENAMENTO DO TERRITÓRIO-PO
JPI Oceans
SEASERA
PERSEUS

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THE BUDGET: €999.692.00



Objectives:

Key Objective 1: Identify, extract and synthesise existing knowledge

Key Objective 2: Establish research needs and gaps

Key Objective 3: Provide recommendations to establish an European science-policy platform to support implementation of MSFD.



MISIS - MSFD Guiding Improvements in the Black Sea Integrated Monitoring System

Partners:

Romania:
NIMRD "Grigore Antipa"
GeoEcoMar
Ovidius University
Bulgaria - IO-BAS
Turkey - SNUFF Sinop

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Period of implementation: March 2012 – February 2014





Overall goal: Support efforts to protect and restore the environmental quality of the Black Sea toward sustainable development of the region.

Specific objectives:

- Improve availability and quality of chemical and biological data
- Increase number and size of protected areas in the Black Sea
- Enhance stakeholders participation and public awareness







PERSEUS Targets

- Identify patterns of natural and human-derived pressures and assess their impact on marine ecosystems
- Design an innovative, small research vessel to serve as a scientific survey tool in very shallow areas.
- Use scenarios to explore interactions between projected human-derived and natural pressures.
- Develop a framework of adaptive policies and management schemes to help in reaching GES.
- 5. Define and rank feasible and realistic policies



How can Stakeholders inform Research?

- By providing a justification / rationale for targets!
- ✓ By supplying new facts and data
- By reminding us what we still have to accomplish!

A first 'Go' on a Joint Science/Stakeholder Dialogue: Describe the Problem and Define Policy Goals

Environmental risks selected for adaptive policy framework case studies

Sub-regions	Western Mediterranean		Central Mediterranean		Eastern Mediterranean		Black Sea	
Main Risk	Coastal	Basin	Coastal	Basin	Coastal	Basin	Coastal	Basin
Alteration of hydrographical conditions (D7)		×	×	×		×	×	×
Chemical pollution (D8, D9)	×	×	×	×	×	×	×	×
Nutrient and organic enrichment (D5)			X		×		×	
Physical damage and loss of habitals (D6)	×	×	×	×	×	×	×	
Introduction of non-indigenous species (D2)	×	×	×	×	×	×	×	×
Overfishing (D3)	×	×	×	×	×	×		×
Marine litter (D10)	×	×	×	×	×	×	×	×
Underwater noise (D11)		×		×		×		
Jelly blooms (D1, D4)			×					

Let's debate!

- Is EBM feasible in terms of scientific knowledge?
- 2. Which aspects of blue growth need answers from the scientific community?
- 3. Who should drive the policy agenda?
- 4. How do we share information when nobody wants to share?
- 5. Is popularizing science enough to reach consensus?
- 6. Other?

