# 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



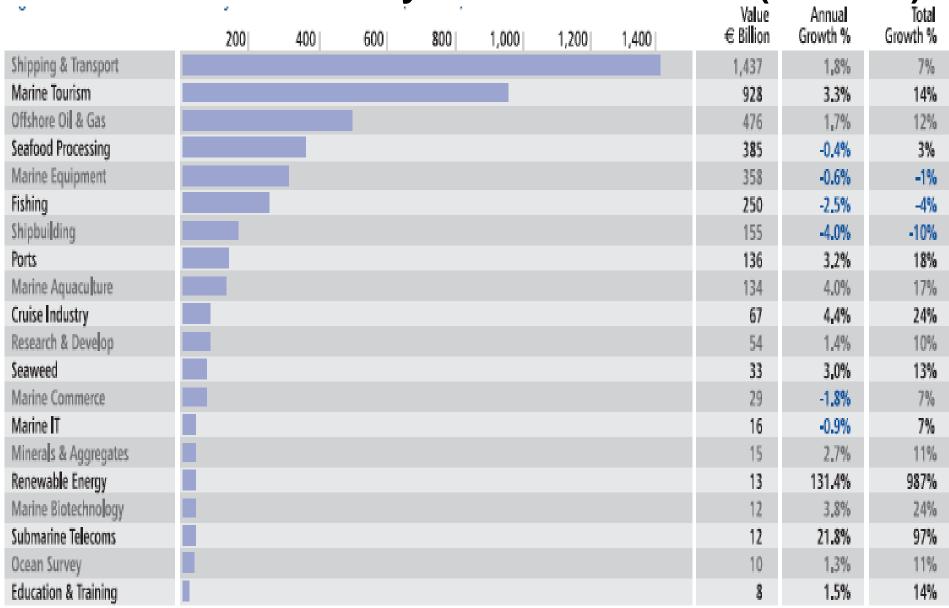
### YOUR ATTENTION PLEASE!

# This is (should be) an interactive presentation

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

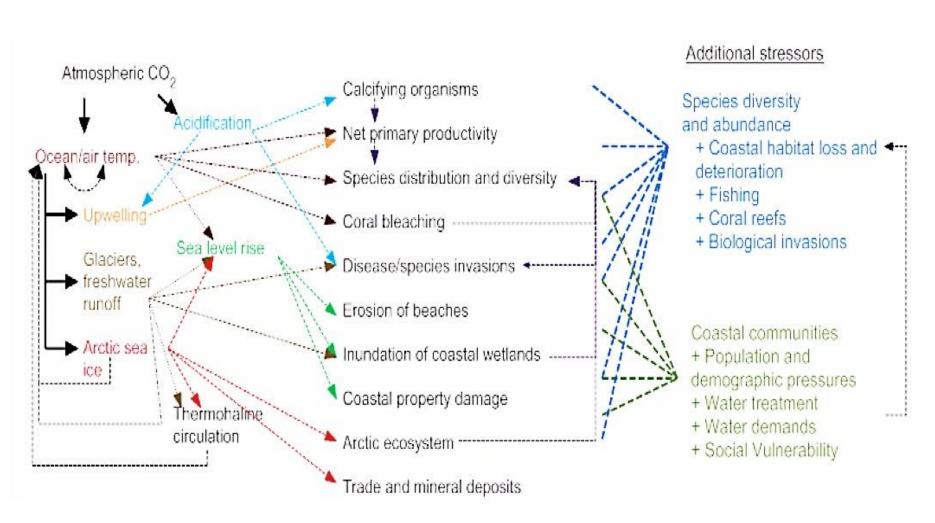


### World Marine Industry Sector 2005–2009 (€ billion)



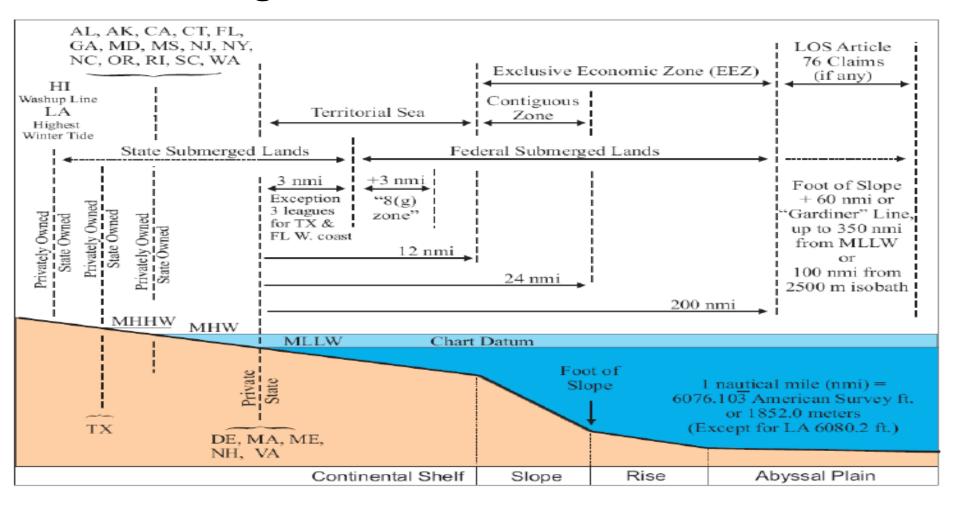
Source: Douglas-Westwood Ltd (2005).

# 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

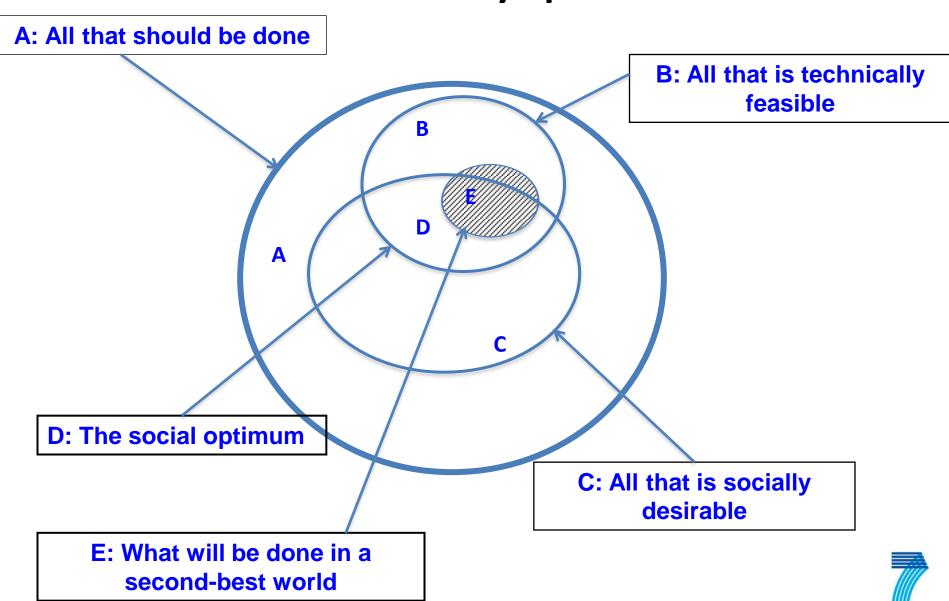


# Stakeholder Dialogue: We give you the facts, you give us the ideas!

- 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

#### THE \$ 100 PO 100 AND Aug 2014

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

#### For more information:

Project Coordinator
Marisa Fernandez Cañamero
CETMAR
mfernandez@cetmar.org
Tel. +34 986 247 047 Ext. 102

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

Project Coordinator:
Laura Boicenco
NIMRD
lboicenco@alpha.rmri.ro

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?

