

Marine Board-ESF perspectives re. the Integrated Maritime Policy: emphasis on monitoring/observing systems

COST-ESF Workshop on Coastal Model Validation
18-20 November 2009, Brest (FR)

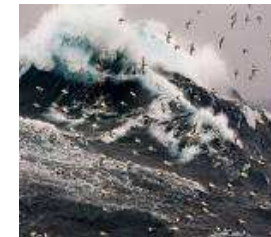
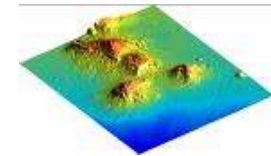
Aurelien Carbonniere
Science Officer
Marine Board-ESF

Outline of Presentation

- **Marine Board-ESF**
- **European Marine Science Policy context**
- **Recent MB involvement in relation to monitoring/observing systems**
- **How to promote monitoring/observing related activities in Europe?**
- **Some recommendations for future actions**

Marine Board-ESF

- **Pan-European platform** for marine science and marine science policy
- **Established in 1995**; by Member Organisations in consultation with the European Commission
- **30** Member Organisations (Research Funding and Performing Organisations) from **19 countries**
- **Node** for:
 - **Knowledge exchange** between national marine science organisations
 - **Science Forum**, with members and networks (EuroGOOS, EFARO, ICES, WaterBorne TP, etc.); MB Biennial Forum
 - **Policy Interface** – European Commission (DG RTD, DG MARE) = permanent observers



Marine Board, Ostend, Belgium InnovOcean site



The European Marine Science Policy context:
the Integrated Maritime Policy

2 initiatives:

**European Marine and Maritime Research
Strategy – EMMRS**

&

**Marine Strategy Framework Directive -
MSFD**

The Integrated Maritime Policy



<http://ec.europa.eu/maritimeaffairs>

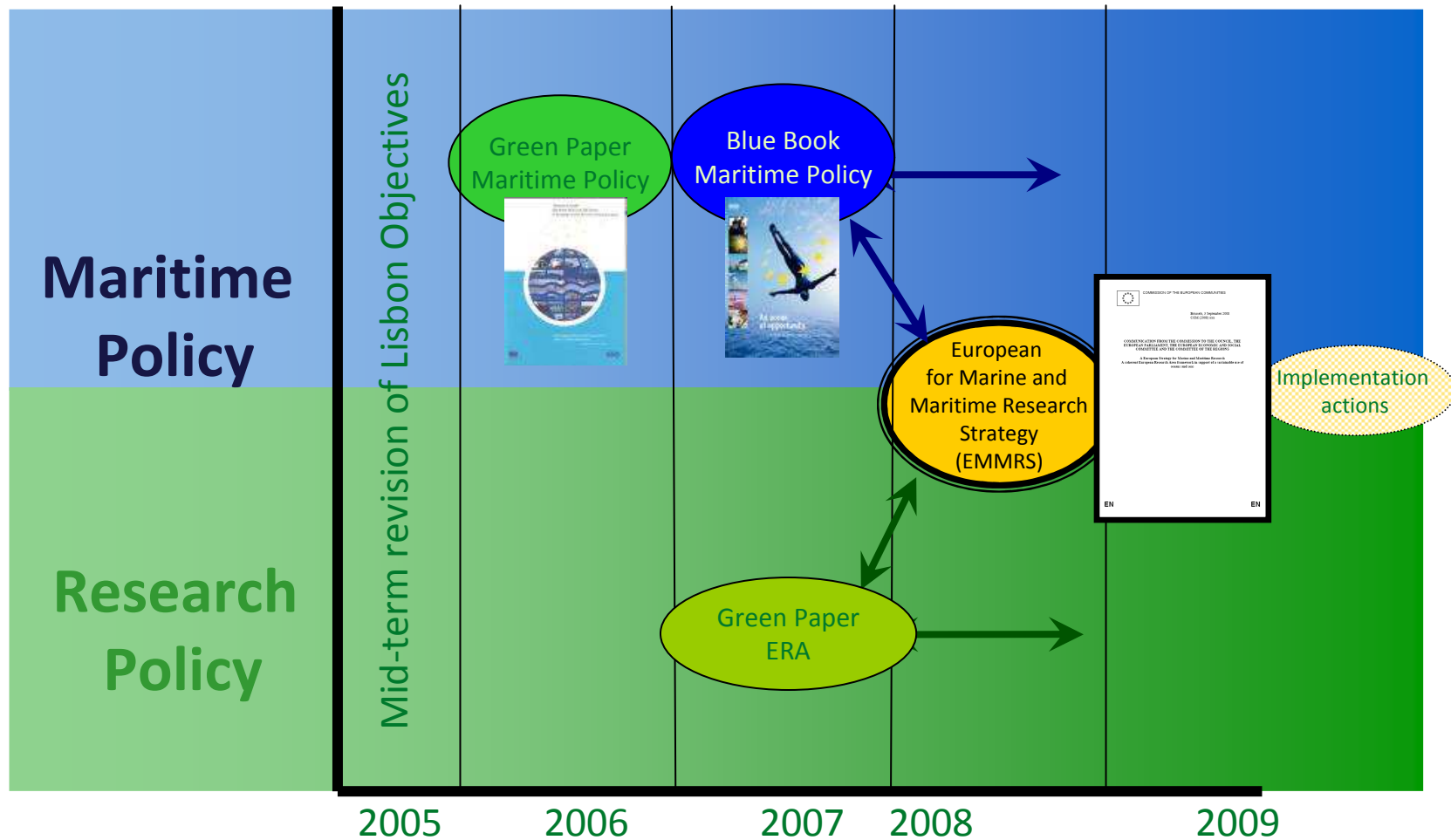
*“An **all-embracing** maritime policy aimed at developing a dynamic **maritime economy** in harmony with the **marine environment** supported by **sound scientific research and technology**,....”*

An Integrated Maritime Policy for the European Union (Oct. 2007)

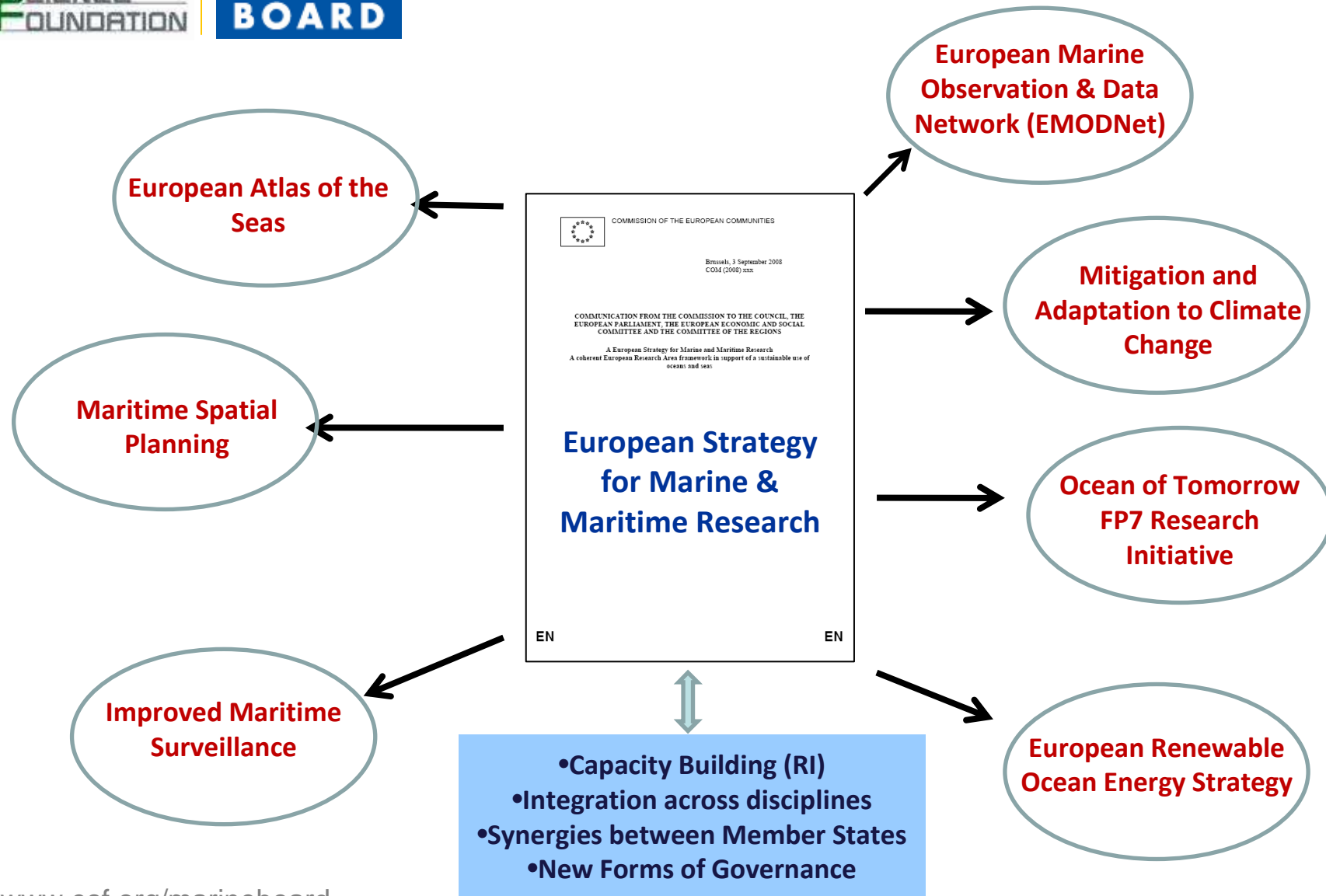
Requires that we:

- Approach the major research challenges (climate change, renewable energy etc.) in an **integrated, holistic and multi-disciplinary** way
- Develop a **partnership** approach
- Implement policies with strong **integrated focus**:
 - **The European Marine and Maritime Research Strategy - EMMRS**
 - **The Marine Strategy Framework Directive - MSFD**

The EMMRS at the core of both the European Research Area & Integrated Maritime Policy



EMMRS September 2008 – A Major Milestone



EMMRS and implementation tools

- **FP7 Opportunities**

Projects on Governance

- **EMAR²RES project** - *European MARine and MARitime REsearch and Science*
- Objective: exploiting **synergies between marine and maritime research communities**; KO:
24/10/09 – 28 month duration
- **SEAS-ERA proposal** – *Towards integrated European marine research strategy and programmes*, **MARCOM proposal** - *Towards an Integrated Marine and Maritime Science Community*, **CLAMER** – *Outreach activities in relation to Climate Change*


Calls

- **The Ocean of Tomorrow** - joint call under FP7 in 2009-2010 (3 topics – 34 million euros)
- Objective: fund major research topics requiring a **cross-thematic approach**
- **Topics** of 1st call
 - Quantification of climate change impacts on economic sectors in the **Arctic**.
 - **Vectors of changes** in marine life, impact on economic sectors.
 - Sub-seabed **carbon storage** and the marine environment
- **Challenges**
 - Demonstrate community mobilisation and engagement
 - Secure future joint calls and suggest relevant topics

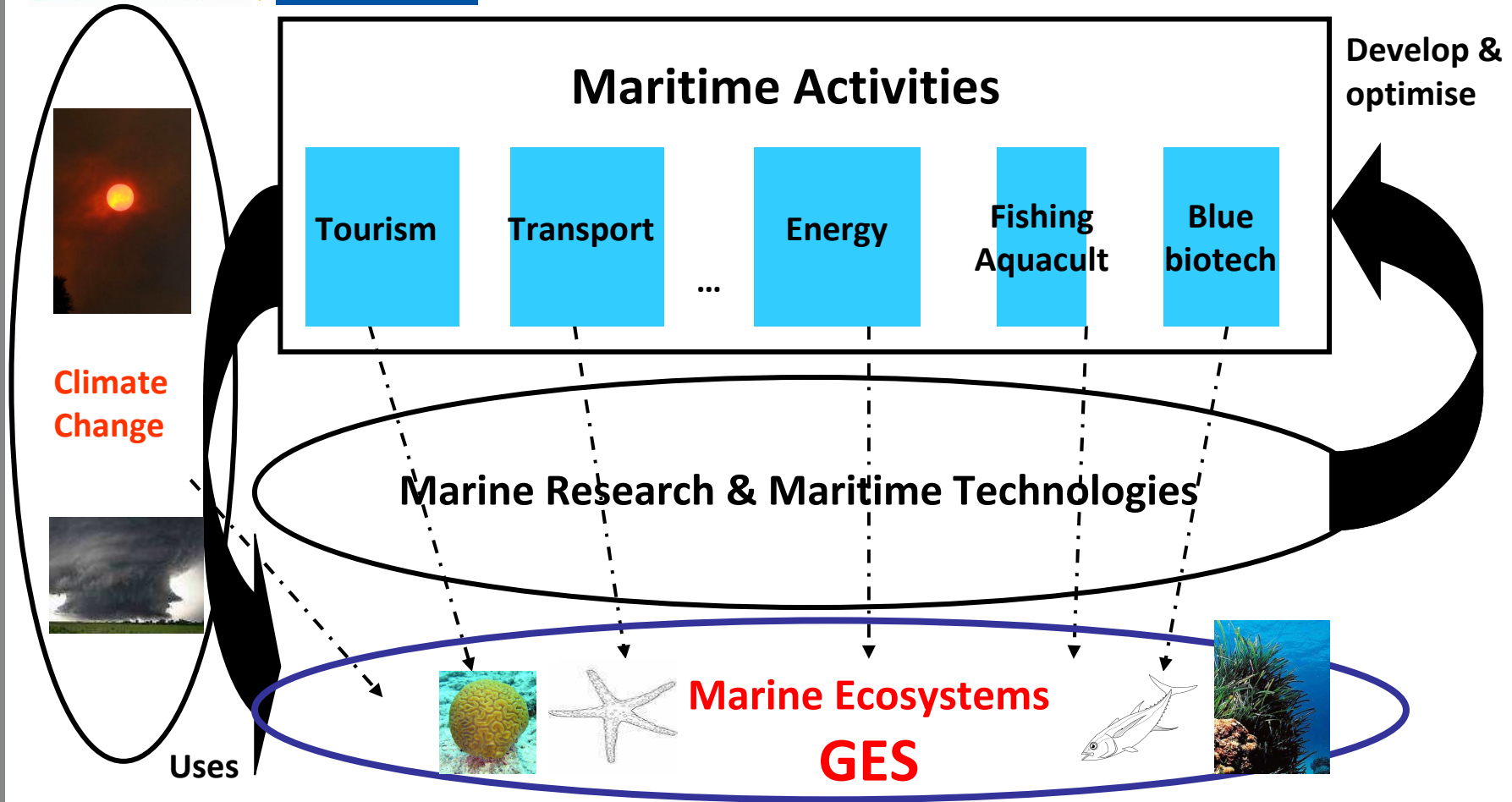
The Marine Strategy Framework Directive - MSFD

- **Environmental pillar** of the integrated EU maritime policy
- **Establishes a framework** for Member States to achieve and maintain **Good Environmental Status (GES)** by 2020 at the latest.

Some Qualitative descriptors: [contaminants], hydrographic conditions, eutrophication, invasive sp.

Milestones	Actions	Phases
By mid 2010	Member States to transpose MSFD	 <p><i>Program of measures towards GES (by 2015)</i></p>
By July 2012	<ul style="list-style-type: none"> - Description, assessment, analysis of environmental status: Determination of GES - Environmental targets / indicators (with socio-economical analysis) <p>There are NEEDS to provide up-to-date information -on science & policy</p> <ul style="list-style-type: none"> - at different levels (national, regional, EU) 	
By July 2014	National/regional monitoring programs into function	
By 2020	Achieve GES	

The ideal vision of the Maritime Policy



**= To achieve GES:
Need for new interoperable tools/instruments to
enhance observing/monitoring capabilities
(wave, HABs, hydrocarbons, nutrients etc.)**

Marine Board-ESF involvement in relation to monitoring and observing systems

2- Marine Board-ESF involvement in relation to monitoring and observing systems

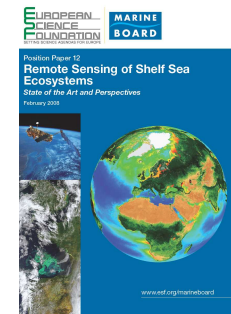
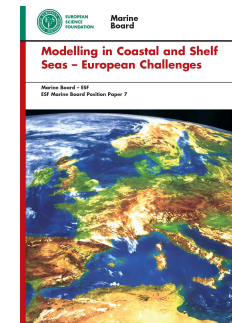
- Marine Board-ESF Position Papers

- Remote Sensing of Shelf Sea Ecosystems

- Position Paper 12 (February 2008) Chair: I.S Robinson (NOCS-UK)

- Modelling in Coastal and Shelf Seas – European Challenges

- Position Paper 7 (June 2005) Chair: D.Prandle (POL, UK)



- Marine Board-ESF Vision Group on EMODNET

- Document published in September 2008

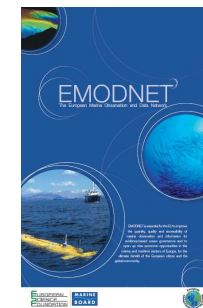
- Co-Chairs: A.Dosdat (Ifremer) & P.Ryder (EUROGOOS)

- Review the background policy documentation addressing EMODNET;

- Identify the concepts relevant for the EMODNET

- Science and policy dimensions of these concepts

- Develop a Vision Document targeted towards policymakers



2- Marine Board-ESF involvement in relation to monitoring and observing systems



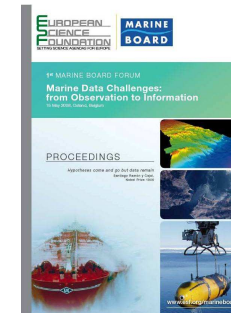
2- Marine Board-ESF involvement in relation to monitoring and observing systems

- 1st Marine Board-ESF Forum (15 May, Ostend, BE)

“Marine Data Challenges: from observation to information”

Proceedings (May 2009)

Key stakeholders debate the pan-European conservation and data management systems, from acquisition through to informed use



- 2nd Marine Board-ESF Forum

(19 May 2010 – Gijón, Spain; side-event at the European Maritime Day Stakeholder Conference in Gijón, Spain (19-21 May 2010))

“Long-term Time Series Stations – Essential Marine Monitoring Infrastructures for Europe (Provisional Title)”

2- Marine Board-ESF involvement in relation to monitoring and observing systems

- **MarinERA Infrastructure Workshops (MarinERA FP6 ERA-NET project)**
 - On **Fleet management issues** (Autumn 2007), *MB Position Paper (March 2007) – Initiation of EUROFLEETS FP7 proposal*
 - On **Coastal Observatories** (feb2009), *report available on request – Initiation of JERICO FP7 proposal*
 - On **Marine sensors technologies** (march2009) – *Report 9 – key recommendations*
http://www.marinera.net/dissemination/tec_reports.html
http://www.marinera.net/dissemination/infrastructure_workshops.html
- **AMPERA reports (AmpERA FP6 ERA-NET project) on Accidental Marine Pollution: recommendations for trans-national/regional R&D in the field of Marine Pollution**
<http://www.cid.csic.es/ampera/pages/reports.php>



2- Marine Board-ESF in support of monitoring and observing systems

- **In support of the EMMRS** - through EU **FP7 proposals (e.g. EUROFLEETS, MEECE etc.)**

Also in prep. **JERICO “Joint European Research Infrastructure network for Coastal operational Observatories”** which aims to organize a reflection at the European level about technological developments necessary to prepare future operational coastal observing systems

- **In support of the MSFD/Water Framework D/Birds&Habitat D/Common Fisheries Policy**

MB-ESF has set-up topical Working Groups in relation to Environmental observing/monitoring activities in the marine environment

- on EAM implementation (publication foreseen Q1 2010)
- on Emerging pollutants (publication foreseen Q3 2010)
- on MPAs (publication foreseen Q4 2011)

- **In complement of these 2 policy initiatives, the MB-ESF follows-up sensors technologies developments.**

4- How and When to act?

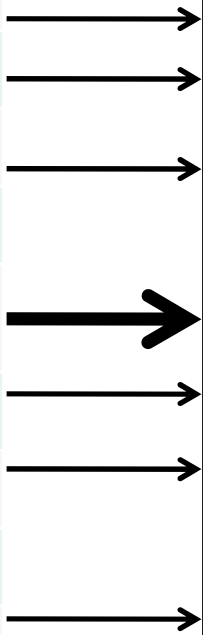
Strategic Interactions

- **On-going FP7 proposals (e.g. “JERICO” (coordinated by Ifremer))**
- **Liaise with the Sensor technology Community**
- **Liaise with the GMES bureau (funded by DG Enterprise) re. operational oceanography**
- **Interact with Euro-GOOS Secretariat (identify gaps / initiate common strategies)**
- **MB-ESF can convey your specific recommendations to high-level policy level (moreover if this initiative supports and complements the MSFD implementation) and the decision makers/programme managers to clarify what their immediate needs are.**

4- How and When to act? Influencing future calls

FP7 Thematic Priorities
(Cooperation program)

- FP7 Cooperation
- 1. Health
- 2. KBBE
- 3. ICT
- 4. Nano
- 5. Energy
- 6. Env. & Climate Ch.
- 7. Transport
- 8. Socio-Econ. Sci.
- 9. Security
- 10. Space



Cross-Cutting topic

New Technologies (ICT, Sensors) supporting the implementation of the Marine Strategy Framework Directive

Scope

- New and improved chemical and biological *in situ* sensors (lab-on-a chip)
- Automatic data quality assurance / control
- Establishment of autonomous chemical and biological monitoring stations and linkage to EMODNET
- Strategies to overcome scale-up and commercialisation hurdles
- Application of innovative space (Earth Observation) technologies to ocean governance.

Ideas to be conveyed to the EC

The Marine Board is willing to further develop this Cross-Cutting topic and will convey the idea to the EC for a potential publication in 2011

4- How and When to act?

- **Other FP7 areas**

- Infrastructure (capacities programme),
- Cooperation programme: **SECTORAL priorities**
(http://cordis.europa.eu/fp7/cooperation/home_en.html)
 - Information and Communication Technology
 - Environment (environmental technologies)
- Mobility (People programme): Marie Curie fellowships

- **Other EU initiatives**

- ESF Networking Programmes, exploratory workshops etc.
- **COST actions** –Innovative and fundamental research
- **EUREKA**: pan-European network supporting European innovation <http://www.eureka.be>
- **CIP: COMPETITIVENESS AND INNOVATION FRAMEWORK PROGRAMME**
http://ec.europa.eu/cip/index_en.htm

4- Future actions...



Inputs from your community

- **To your EU National Contact Point**
 - Voice your recommendations to influence the drafting of next FP7 calls in the marine realm.

- **To the Marine Board-ESF**
 - Send ideas/recommendations to inform MSFD implementation process

- **To ESF & COST**
 - Make use of existing funding schemes to consolidate/sustain your network

Marine Board-ESF Contributions

- Convey your research priorities to national marine science managers and EU decision makers (MSFD context)
- « Clarify and translate » decision makers' needs on different time scales
- Interface / catalyser of ideas

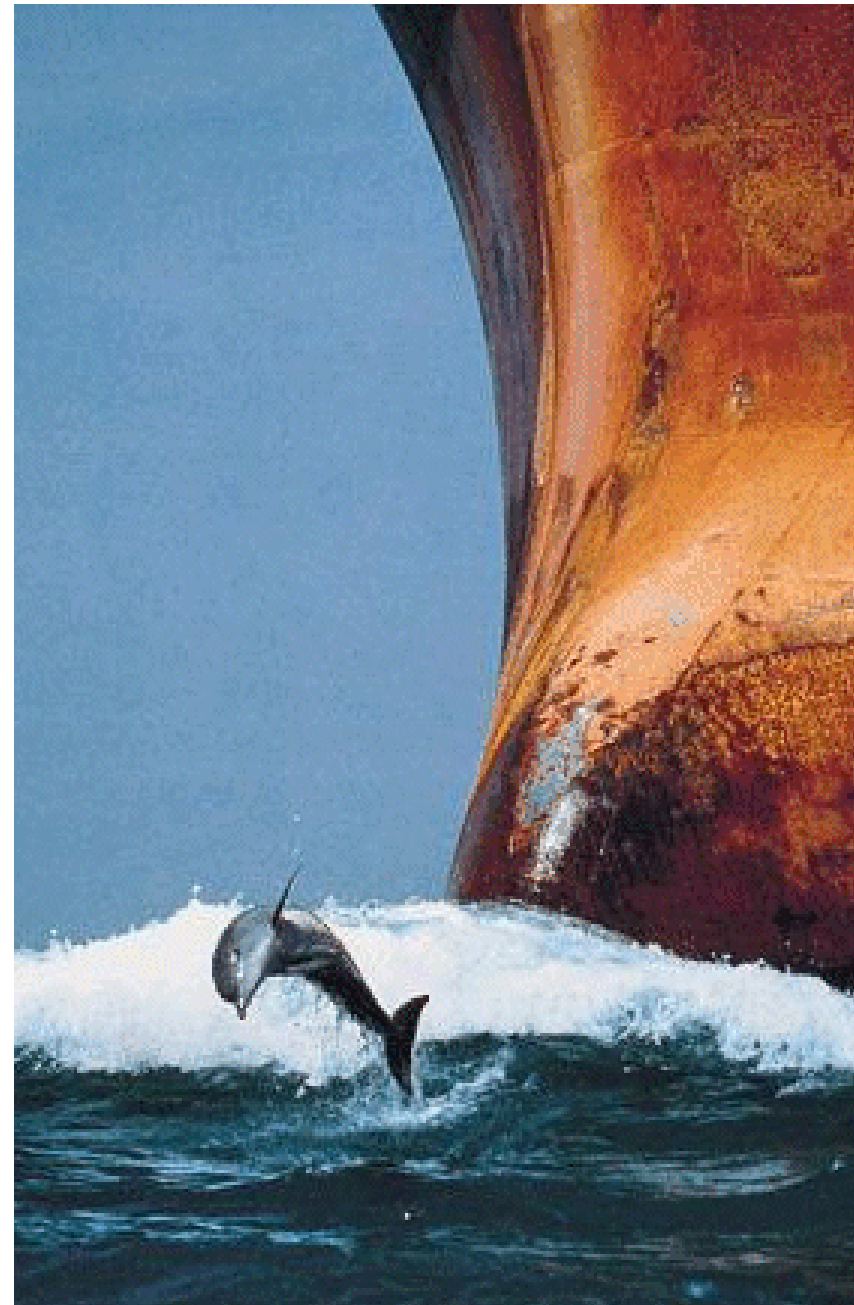
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MARINE
BOARD

*Thank you
for your attention*

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