Welcome to the Geo-Seas International Workshop



9 & 10 October 2012 De Vere Hall, University College, Cork





Logistics

- Breaks/lunches
- Fire alarms
- Internet access
- Point of contact: Virginia Hannah

Marine Strategy Framework Directive Directive 2008/56/EC of the European Parliament and of the Council

Assessmen

c)

"In respect of each marine region or sub-region, Member States shall make an initial assessment of their marine waters, **taking account of existing data where available** and comprising the following:

- a) an analysis of the **essential features** and **characteristics**, and **current environmental status of those waters**, based on the indicative lists of elements set out in Table 1 of Annex III, and covering the **physical and chemical features**, **the habitat types**, **the biological features and the hydro-morphology**;
- b) an analysis of the **predominant pressures and impacts**, **including human activity, on the environmental status of those waters**;
 - an **economic and social analysis** of the use of those waters and of the cost of degradation of the marine environment."

Marine Strategy Framework Directive Ecosystem approach

based approach to the management of human activities, ensuring that the collective pressure of such activities is kept within levels compatible with the achievement of good environmental status and that the capacity of marine ecosystems to respond to human-induced changes is not compromised, while enabling the sustainable use of marine goods and services by present and future generations."

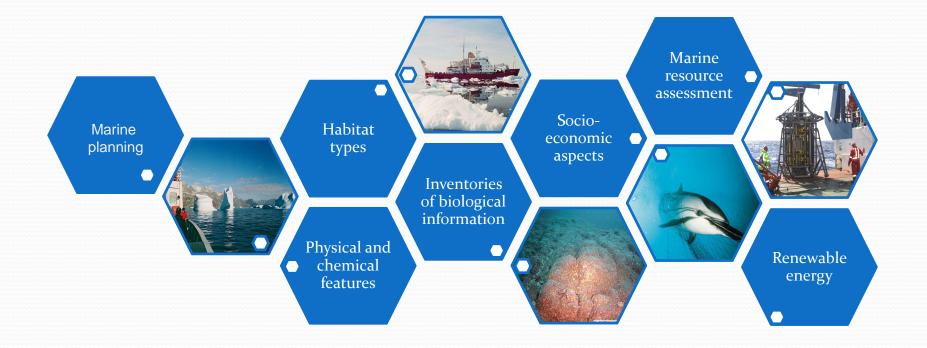
Approach

"Marine strategies shall apply an ecosystem-

"The Ecosystem Approach is a strategy for the integrated management of land, water and living resources that promotes conservation and sustainable use in an equitable way"

> Fifth Conference of the Parties to the Convention Biological Diversity, December 1993

* Based on the analysis and processing of a large amount of heterogeneous data for knowledge generation



MARINE KNOWLEDGE 2020

Communication from the Commission to the EU Parliament and Council 8 Sept, 2010

• Data are essential for all aspects of marine assessment and planning

"The creation of marine knowledge begins with **observation of the sea and oceans**. Data from these observations are **assembled**, then **analysed to create information and knowledge**. Subsequently the knowledge can be applied to deliver **smart sustainable growth**, **to assess the health of the marine ecosystem or to protect coastal communities**."

Geo-Seas: Implementing Marine Knowlege 2020

- Providing on-line access to harmonised geoscientific and oceanographic data
- Achieved through:
 - use of common technologies and methodologies
 - implementation of common vocabularies and standards
 - defined set of data delivery and exchange formats
 - 63 data centres delivering 1050000 data sets and associated metadata



"Through data infrastructures Europe is leading the way in developing a coherent and multidisciplinary approach to marine data management at both the European and global level"

Marine Knowledge 2020