



EMODnet

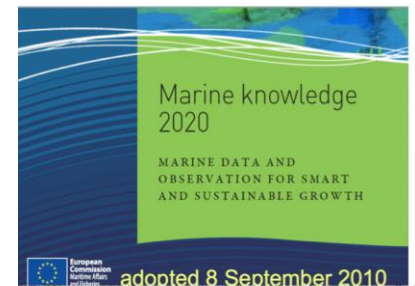
The European Marine Observation and Data Network

Columbus 1st Annual Conference - Realising the Impact of Marine &
Maritime Research through Knowledge Transfer

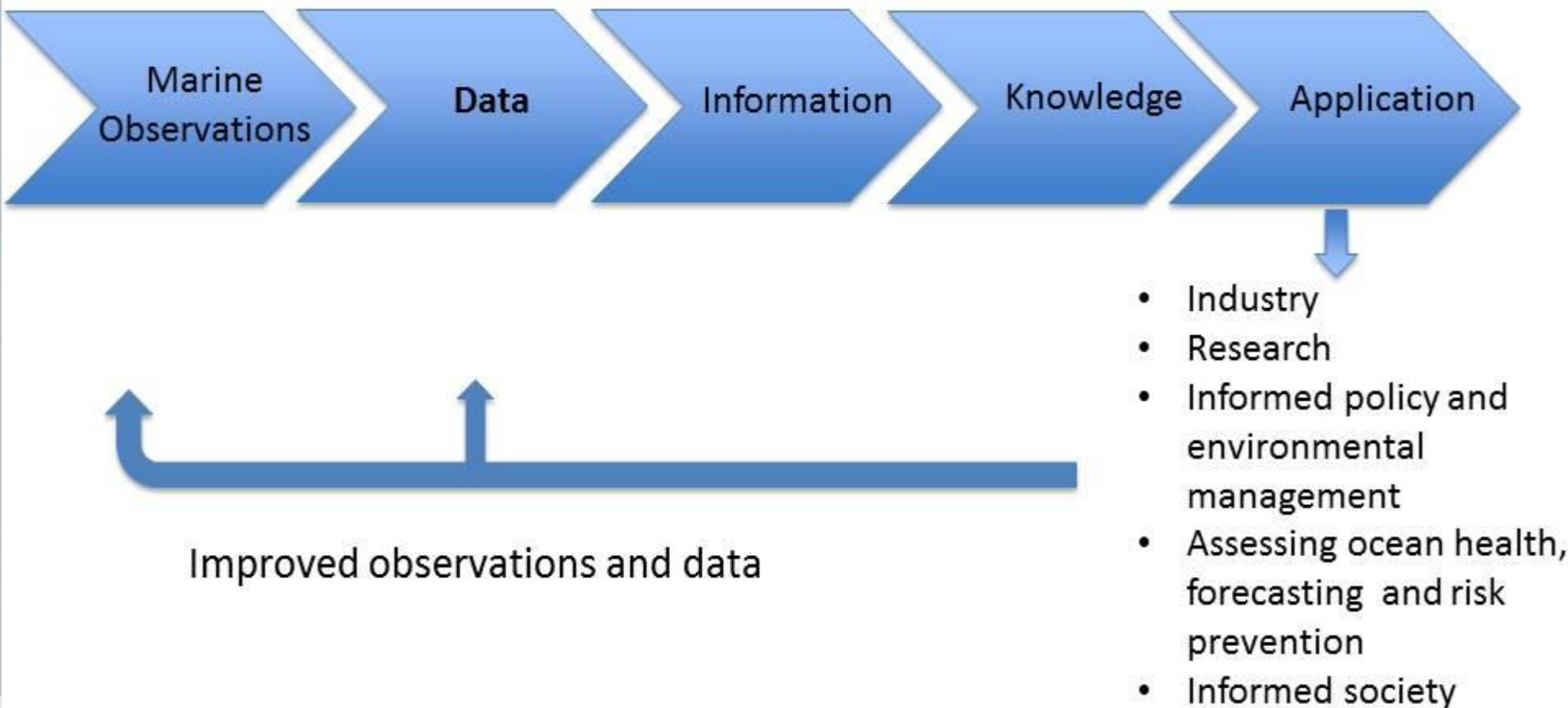
Wednesday 2 March, 2016

Brussels

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Marine Knowledge Creation and Application



There is only one Earth, with only one history, and we get only one chance to record it. Ideas not followed through can be taken up again later. A record not made is gone for good. **Editorial - Nature 450**, 761 (6 December 2007)

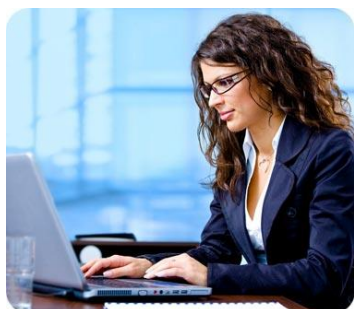


Cost of Ocean Observation in EU
Space data: € 400 M per year
In-situ data: > €1 billion per year



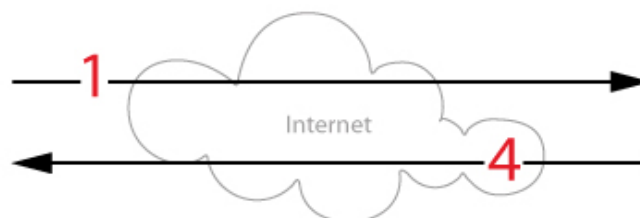
User

The user invokes a web application and enters the criteria for a map



Internet

The user's web browser sends a request to the web server



Web server returns a map to the user's browser

Web Server

Web server accesses different databases for map features



The map features matching the search criteria are returned to the web server

Data



Central Portal
www.EMODnet.eu

access data & products
from >1 theme

7 thematic Data Portals

access to thematic data &
data products (maps, indices)

Member
State
repositories



The screenshot shows the EMODnet Central Portal website. The header includes the EMODnet logo and the text 'European Marine Observation and Data Network'. Below the header is a navigation bar with links: Data Portals, Data Products, Web Services, Sea Basin Checkpoints, Partners, About, and Secretariat. The 'Data Portals' link is highlighted, and a sidebar menu lists the following categories: Hydrography, Geology, Seabed Habitats, Chemistry, Biology, Physical Parameters, and Human Activities. The main content area features a description of EMODnet and a list of the seven thematic portals, each with a representative image and a brief description of the data provided. The portals are: Hydrography (bathymetry, coastlines, wrecks), Geology (seabed substrate, sea-floor geology, coastal behaviour), Seabed Habitats (modelled seabed habitats), Chemistry (chemical data), Biology (marine life), Physical Parameters (physical data), and Human Activities (human impact).

EMODnet Central Portal

European Marine Observation and Data Network

Data Portals | Data Products | Web Services | Sea Basin Checkpoints | Partners | About | Secretariat

Hydrography
Geology
Seabed Habitats
Chemistry
Biology
Physical Parameters
Human Activities

The European Marine Observation and Data Network (EMODnet) is a consortium of organisations within Europe that assembles marine data from diverse sources in a uniform way. The main purpose of EMODnet is to unlock fragmented and scattered data and to make these available to individuals and organisations (public and private), and to facilitate coastal and offshore activities through improved access to quality-assured, standardised and harmonised data. EMODnet is a project funded by the European Commission Directorate-General for Maritime Affairs and Fisheries (DG MARE) under the 2020 strategy.

EMODnet currently has seven thematic portals in operation that provide access to marine data from the following themes: hydrography, geology, seabed habitats, chemistry, biology, and physical parameters. One further portal covering human activities is currently under development.

Hydrography

Data on bathymetry (water depth), coastlines, and geographical location of underwater features: wrecks.

[Read more](#)

Geology

Data on seabed substrate, sea-floor geology, coastal behaviour, geological events and probabilities, and minerals.

[Read more](#)

Seabed Habitats

Data on modelled seabed habitats based on seabed substrate, energy, biological zone, and salinity.

[Read more](#)

Chemistry

[Read more](#)

Biology

[Read more](#)

Physical Parameters

[Read more](#)



Why is this important?

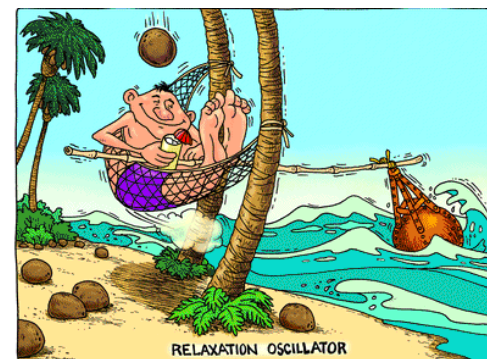
Save costs for
offshore operators



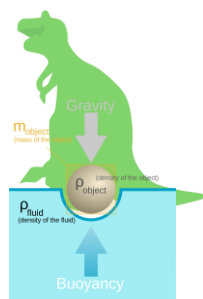
Stimulate competition &
innovation



Promote new uses of
observations & data



Test new
hypotheses



Improve our knowledge of
the behaviour of the sea &
reduce uncertainty



Improve marine policy
making & management



EMODnet



- “This is, without doubt, the most exciting development in data management in Europe that we’ve had for the last twenty years”
Richard LAMPITT, Coordinator of FIXO3 European Programme project
- “From a scientific perspective EMODnet is a giant step in data availability”
Jan MEES, Chair of the European Marine Board
- “EMODnet – a true hallmark in Marine Observations and Data and its networking; it is hugely important not only for Europe but is an example for other regions, a valuable partner for IOC of UNESCO”
Vladimir RYABININ, Executive Secretary of the Intergovernmental Oceanographic Commission (IOC-UNESCO)
- “EMODnet is fundamental to how blue economy will develop”
Matthew KING, European Commission DG MARE
- “Exploitation of EMODnet data will not only happen in EU, it will happen all around the world”
Jean-François MINSTER, Scientific Director, TOTAL
- “Entrepreneurs will take advantage of the data resources made available by EMODnet and deliver very specific information services to specific costumers”
Jonathan WILLIAMS, CEO Marine South East Maritime Cluster



Thank you!



<http://www.emodnet.eu/video>