EMODNET data products workshop

Vlaams instituut voor de zee

Introduction

- VLIZ & VMDC
- EUROBIS & Worms
- EMODNET
- EMODNET Tender / biological lot
- Data product workshop

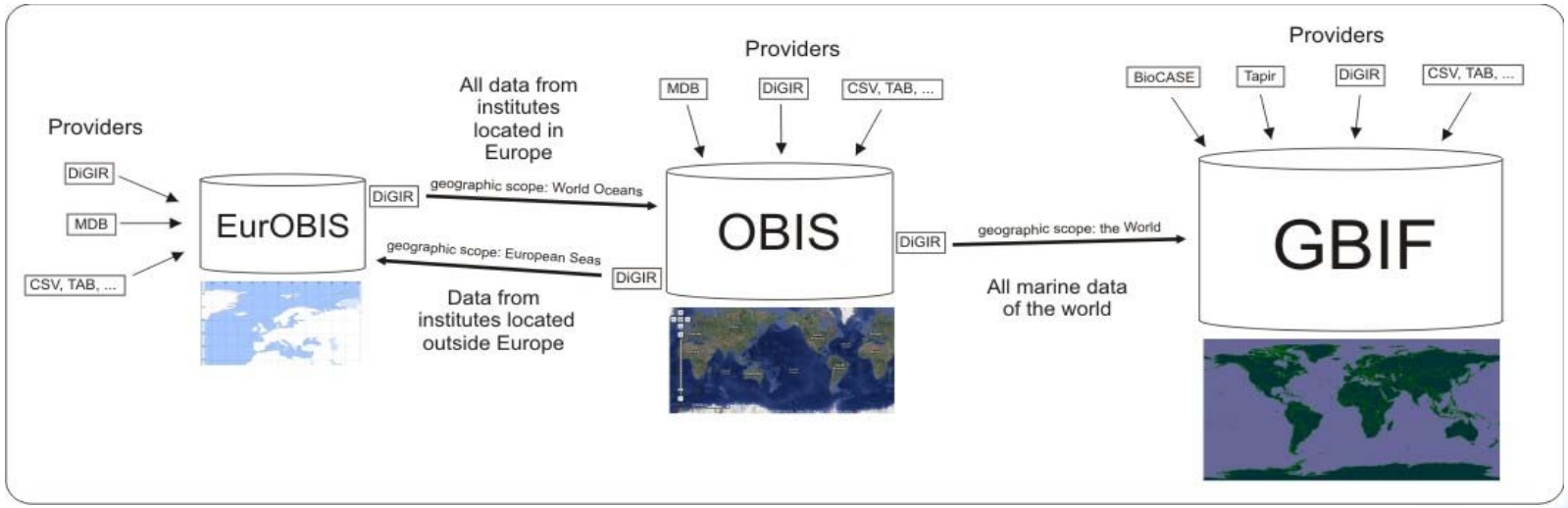
VMDC ?
Vlaams marien datacentrum

- Flanders Marine Datacenter
- Staff : 15
- National data centre in IODE network
- House EurOBIS & Worms
- Networks: IODE, MARS, OBIS, ICES, ASFA, SMEBD, GLOSS….
- International projects: Marbef, Lifewatch, Seadatanet, PESI, Emodnet….

EurOBIS ?

European node for OBIS

- Species observations and specimen collections
- > 240 datasets > 8 M records
- Started under Marbef & CoML



EurOBIS

Vlaams instituut voor de zee

WoRMS ?

World register of marine species

- Standard list of species names (&taxa)
- 314,315 taxa / 253,071 species names
- > 40 global or regional lists
- Compiled, annotated and checked by >170 taxonomic experts
- Society for the Management of Electronic Biodiviersity Data (SMEBD)

WoRMS
World Register of Marine Species

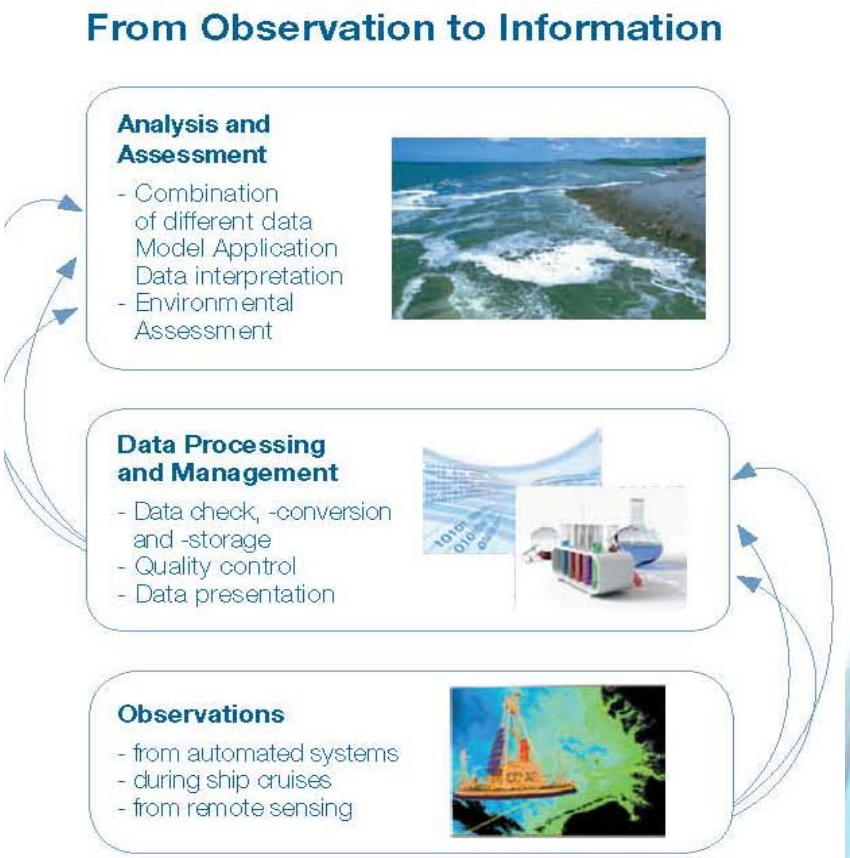
Vlaams instituut voor de zee

EMODNET ?

European Marine Observations and Data Network

- An Integrated Maritime Policy for the European Union
- Address whole chain “from observation to information”
- Need to unlock access to existing data AND fill existing gaps
- Complementary to other initiatives

- ***Data Management***
  - EMODNET as a system of systems
  - Organize a common data management approach accepted by all actors to ensure that data are available to all
  - Interoperability by adopting EU-INSPIRE principles



EMODnet
European Marine Observation and Data Network

Vlaams instituut voor de zee

EMODNET data portal

- Proof of concept (2009-2011): tender

  "*Five portals for a number of maritime basins, providing access to marine data of a standard format and known quality and identify gaps in coverage and identify the main challenges.*"

  – 1. hydrographic data
  – 2. marine geological data
  – 3. chemical data
  – 4. biological data
  – 5. habitat mapping

EMODnet
European Marine Observation and Data Network

Vlaams instituut voor de zee

EMODNET biology portal Plan

- Build data system to provide biological data to EMODNET portal and other European initiatives

EMODNET biology portal Partners & Networks

- VLIZ : EurOBIS, ERMS, WoRMS, PESI
- NIOO-CEME : MarBEF, MARS
- MARIS & IFREMER : Seadatanet
- GBIF
- Bremen University: PANGAEA
- ICES
- Rutgers University: OBIS
- IBSS: Black Sea Marine Biology Network
- ESF-Marine Board (advisory)
- IODE (advisory)
- Many data providers to be identified

EMODNET biology portal
Data requirements

- Data types:
  - Biogeography : species, position, time
  - Biomass, abundance, concentration
  - Indices: eg. Biodiversity indices
- Biological groups:
  - Mammals, Birds, Reptiles, Macroalgae
  - Benthos, Phyto & Zoo-Plankton, …
  - No fisheries

EMODNET biology portal Functional requirements

- Web data portal
- Data freely available
- Data made available in OGC compliant system
- Layers for European Atlas of the Sea, WISE-Marine, European Marine Habitats
- Follows INSPIRE rules

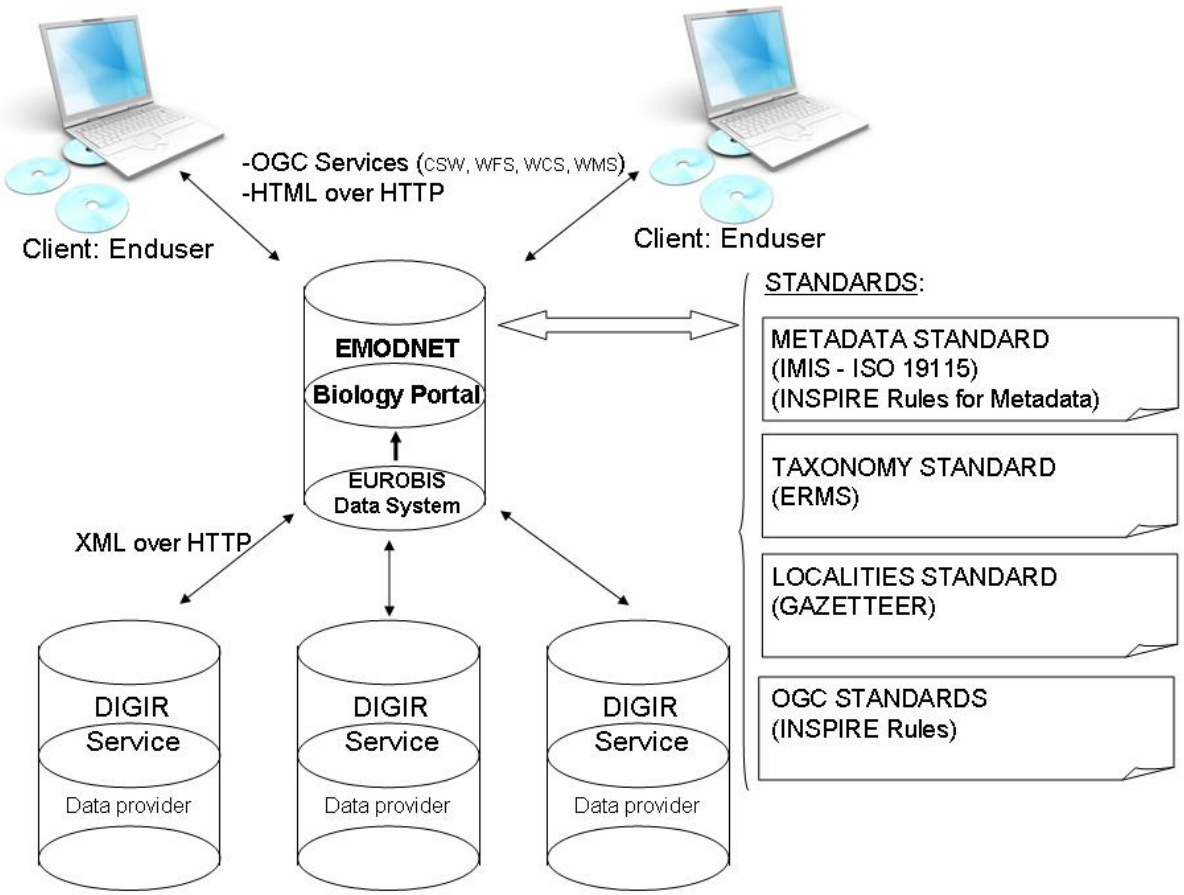
EMODNET biology portal Reporting requirements

- ‘Gap analysis’
- Lessons learned
- Recommendations for final EMODNET
- Collaboration with other lot’s

EMODNET biology portal Strategy

- Build on EurOBIS
- Gap analysis & data inventory
- Identify additional data
- Identify possible data products -> this workshop
- Collect data, calculate & analyse data products ->\# data analysis workshops
- Implement in data portal

System overview



Data products workshop

Objectives

- Identify a set of data products that can be derived from available marine biological data.
- Propose a way to implement them.
- Identify what data, measuring & monitoring activities are missing.
- Propose 2-3 data analysis workshops.

Data products workshop

- Data <> information <> knowledge
- Raw <> aggregated, derived
- Steps required:
  - archive / document / integrate / derive / visualize / distribute
- Restrictions:
  - availability, monitoring cost
  - data quality & fitness for purpose
- KIS

Workshop program

- Intro and background
- What data is available
- Requirements from
  - Scientific community
  - Policy makers
  - Practitioners
  - Public at large
- Demo
- Breakout sessions
  - Identify data products
  - Implementation possibilities
- Final discussions & report