

The European Marine Observation and Data Network

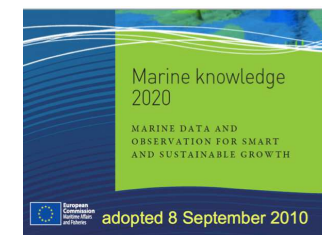


EMODnet

Stakeholder Conference &
Sea-basin Workshops

14 -15 February 2017 Brussels, Belgium

Janbart.Calewaert@emodnet.eu



what's the Problem?

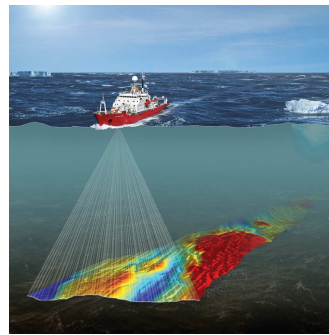


Cost of Ocean Observation in EU

Space data: € 400 M per year
In-situ data: > €1 billion per year

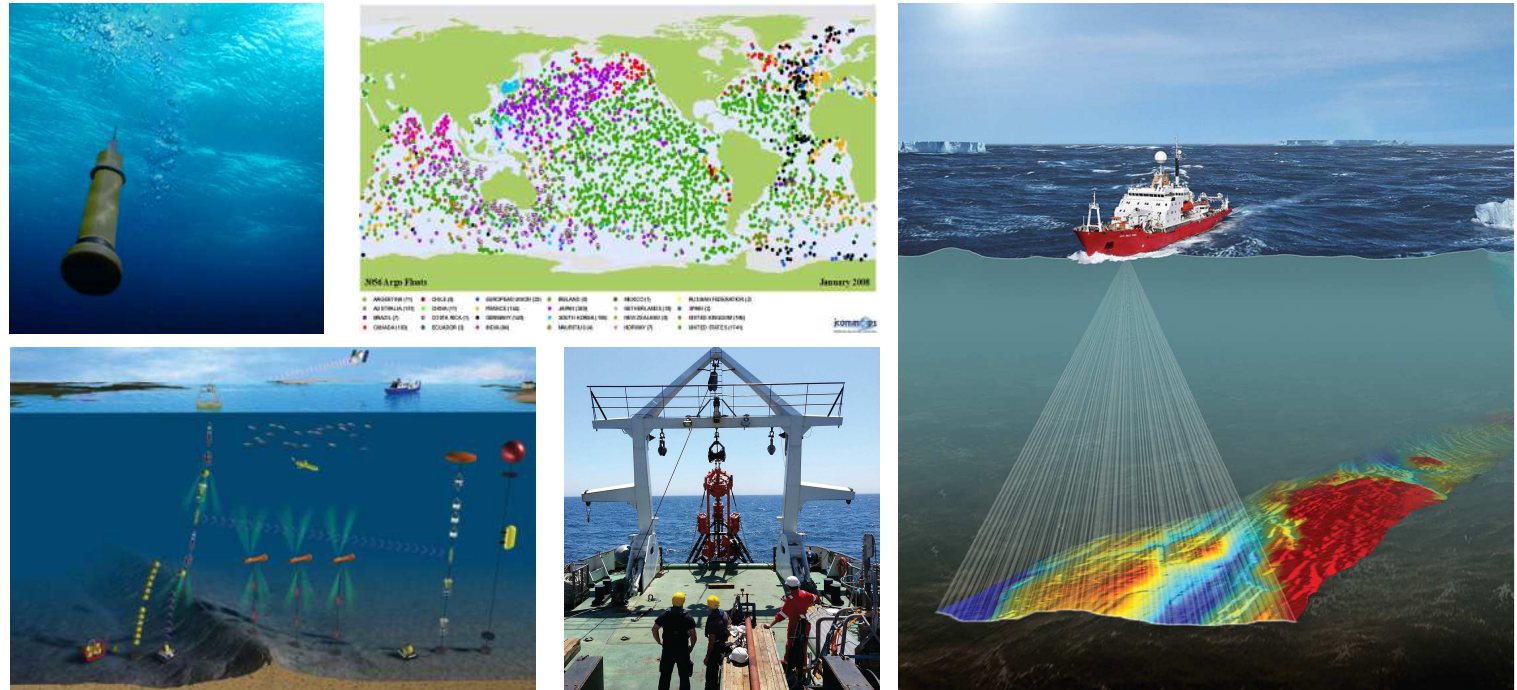
Data Acquisition (Observations)

Data management & access



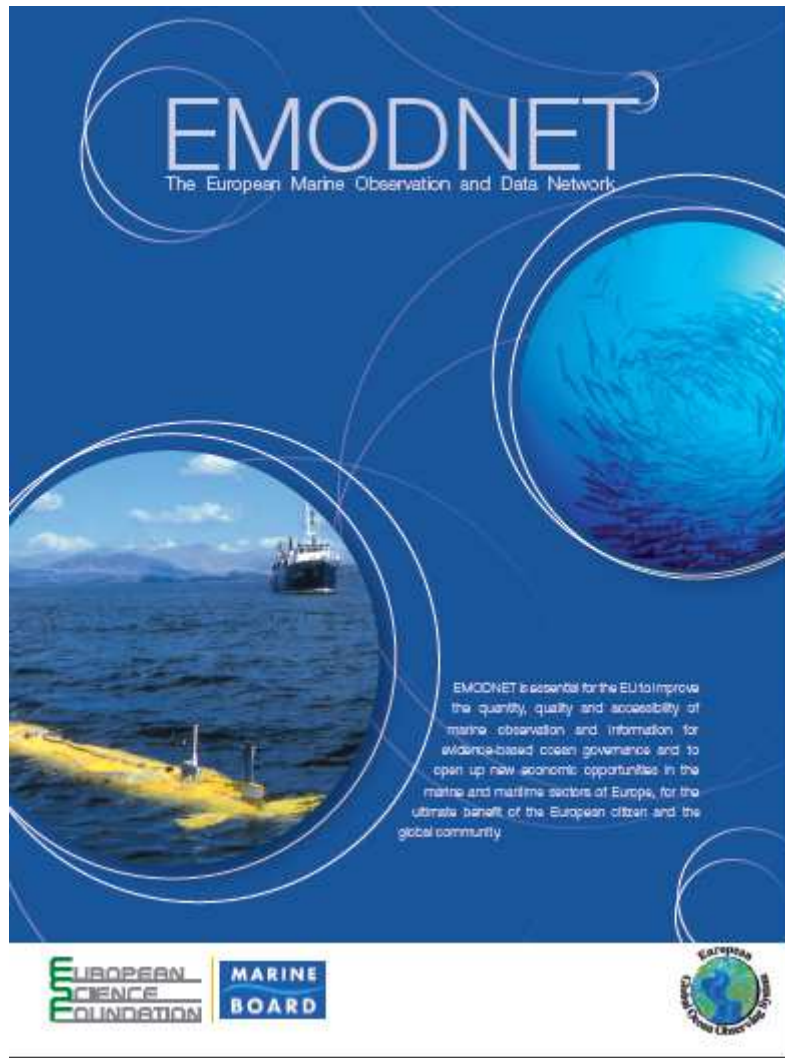


Maria Damanaki, former Commissioner for Maritime Affairs and Fisheries

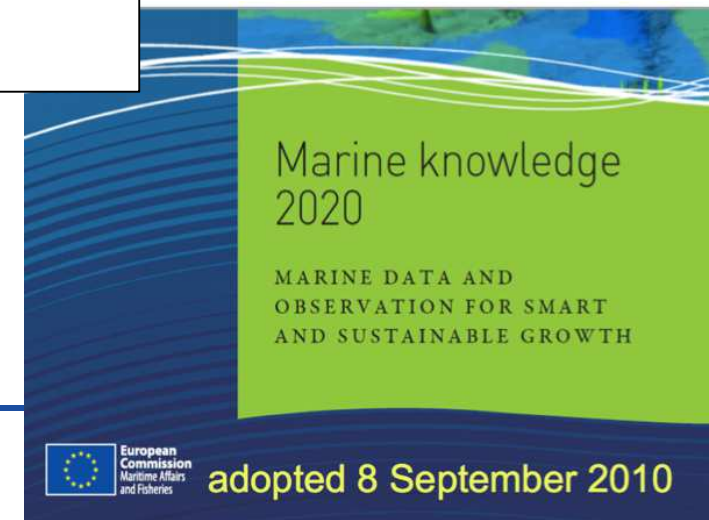


(...) the data collected through these observations can only generate knowledge and innovation if Europe's engineers and scientists are able to find, access, assemble and apply them efficiently and rapidly. At present this is often not the case.

What to do?

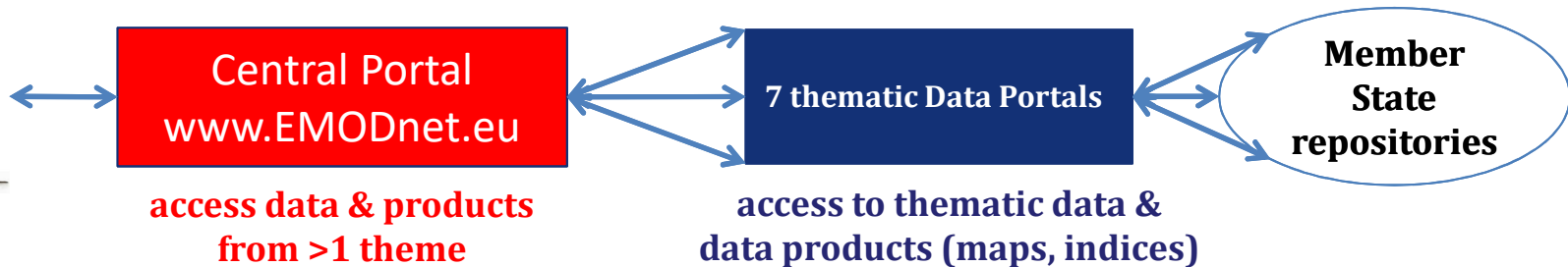
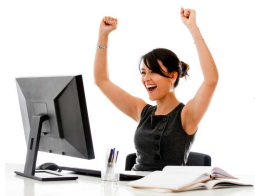
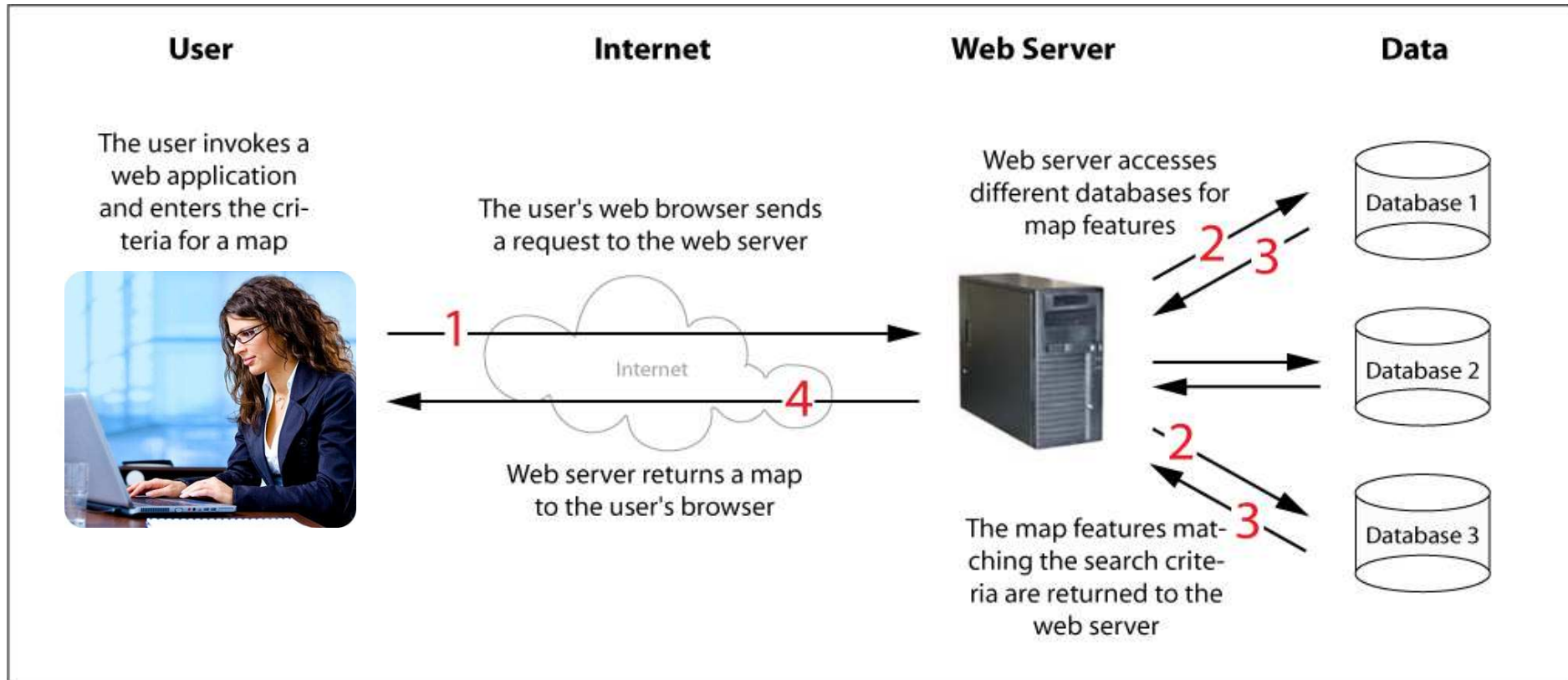


- Change the present fragmented EU repositories of marine data with an interoperable sharing framework
- Move to a new paradigm where data are collected once and used for many purposes
- Optimize observation networks by showing how monitoring meets the needs of public and private users (CHECKPOINT)



A vision for an end-to-end, integrated, inter-operable and user-oriented network of European marine observation and data systems







2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Phase 1 – limited sea basins											
			Phase 2 - low resolution all basins								
					Phase 3 - multi-resolution						

- 2009: Start EMODnet phase 1: 59 Institutes - Budget €6.45M
- 2013: Start EMODnet phase 2: 120 Institutes - Budget €16.3M
- 2016: EMODnet **phase 3**: towards a seamless multi-resolution digital seabed map of European waters by 2020.[budget ↑↑↑]

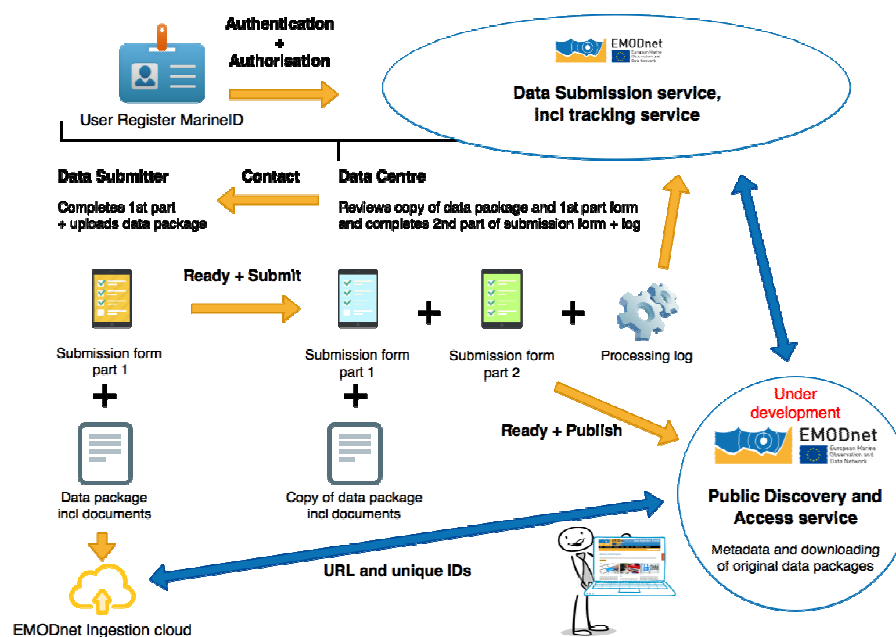
→ **NOW: 7 thematic portals + 6 regional checkpoints + 2 special projects + Central Portal + Secretariat**



- **Higher resolution coverage - more parameters:**
 - ✓ **marine litter** (chemistry portal) incl. macro-objects as well as fragments and microparticles in water column, sediments and beaches. Data on marine litter to be assembled and normalised to a common classification.
 - ✓ **Underwater noise** (physics portal)
 - ✓ **More chemical & biological species**

- **Data Ingestion Portal**
www.emodnet-ingestion.eu

- *More machine to machine communication*
- *Higher performance of portals*
- *More coherence*



EMODnet



European Marine
Observation and
Data Network

What beyond 2020?



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>