

Kick-Off Meeting – Athens – 19-20/10/2011



SeaDataNet

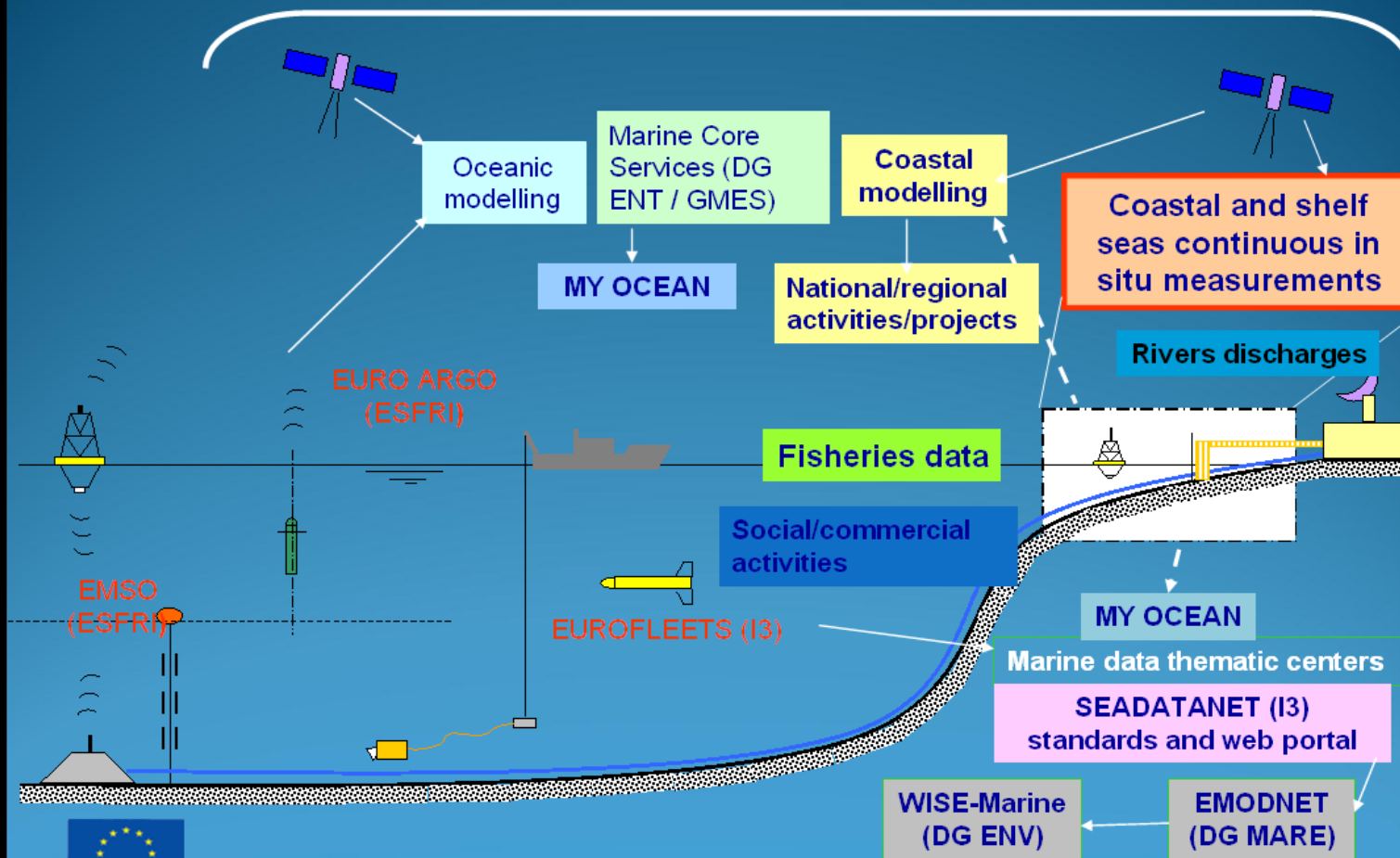
*PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT*

Cooperation with other projects

Prerequisites and legal structure

Towards a sustained marine observation

EC umbrella (directives, policies, communications)





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Marine Research “Infrastructures” *(focus on in-situ observation and data)*

- **EuroFleet** : Harmonization of European Research Fleet
- **EuroArgo** : European Contribution to the Argo programme
- **EuroSites** : Deep Sea Observatories, Contribution to OceanSites
- **EMSO** : Sea floor observatories
- **Jerico** : Coastal observatories
- [FerryBox]
- **SeaDataNet** : Marine Data Management , Network of NODC's
- **Geo-Seas** : Marine geophysical and geological data,
- **Black-Sea Scene** : Black Sea Area
- **MyOcean** : GMES – Marine Core Services, operational oceanography, hydrodynamic models : hindcast, nowcast, forecast
- **EMODNET** : Integrated access to products

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Observation

Data management

Data processing

Support of decision making

My Ocean in-situ TAC role

Marine Core Service

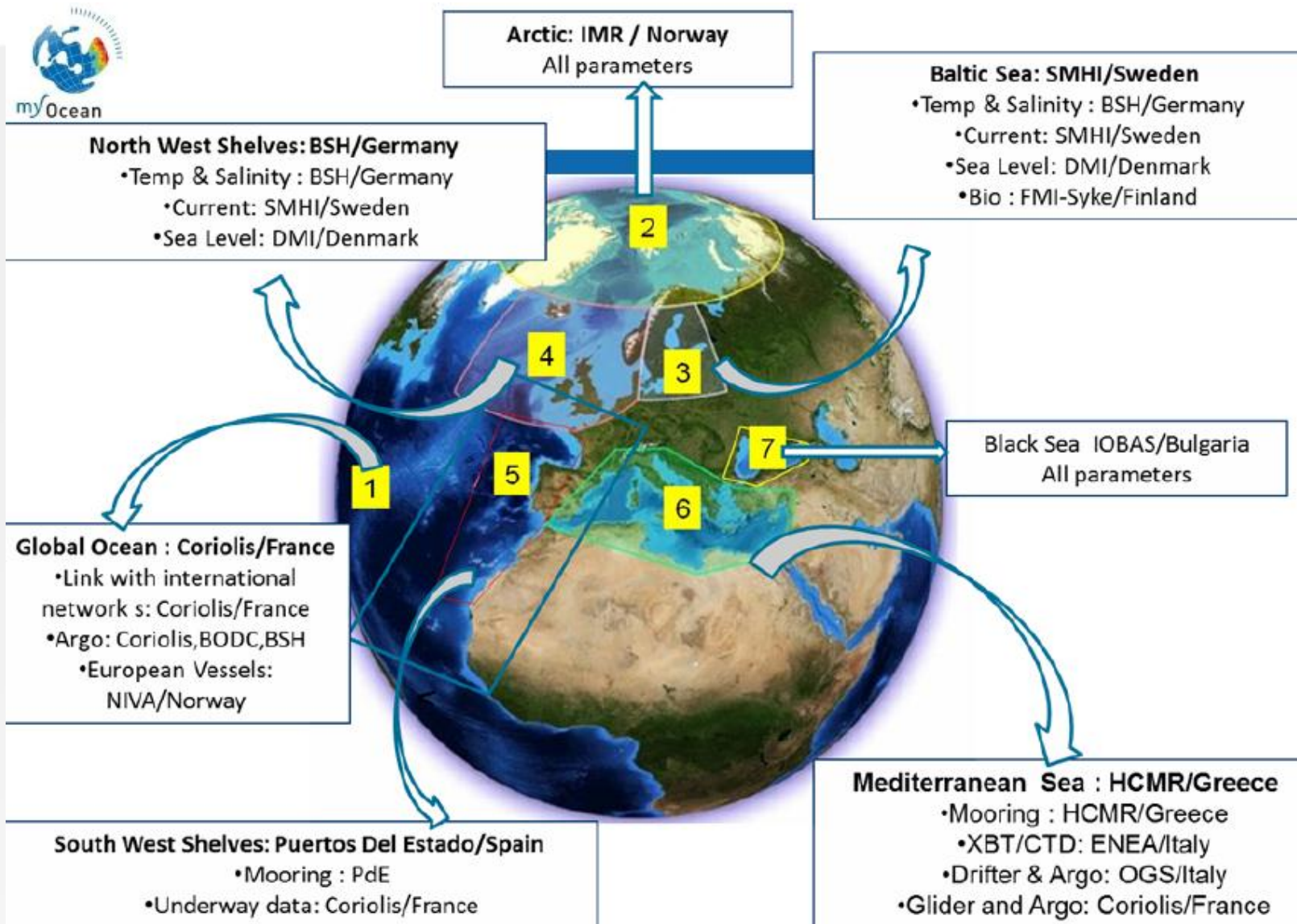
- Limited number of parameters:
 - Physical: T&S, current, sea level
 - Biogeochemical: Chlorophyll/Fluorescence, Oxygen, Nutrients
- Integrate in-situ data in product accessible through global and regional portals
 - Common format
 - Common NRT QC
 - Common Quality flags
 - Common distribution tools
 - Single access point
- Ensure a minimum level of quality on the data delivered
 - In Near real time (24h to a week)
 - In delayed mode
- Assessment of the products at basin scale



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The INS TAC relies on close collaboration with:

Marine Core Service

- Eurogoos: who operates the observing Networks and Uses the INS-TAC products for its national activities
- JCOMM who coordinates the international observing networks
- SeaDataNet who consolidates the NODC network and provides delayed mode products



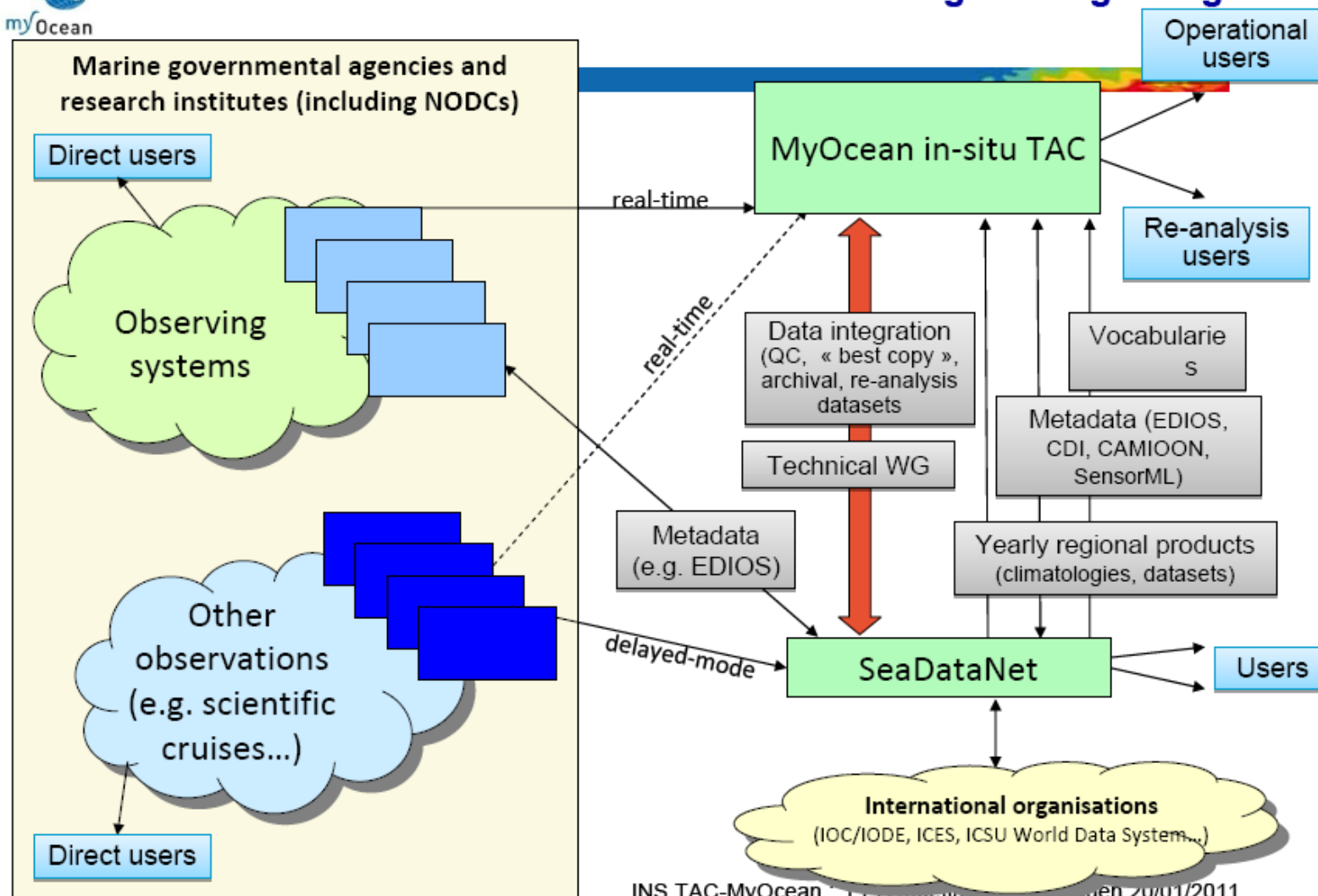
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Cooperation between MyOcean in-situ TAC and SeaDataNet MoU signed Beginning 2010



MoU between MyOcean and SeaDataNet

- Signed in 2011
- Entered in practice with EMODNET – Physical Parameters
- Will be upgraded in order to :
 - Take in account feedback from on going cooperation such as
 - DG-Mare initiatives (EMODNET)
 - DG-Research projects such as JERICO
 - Generalize it to MyOcean
(the previous MoU was focused on in-situ Tac), e.g.
 - SeaDataNet is also interested by MyOcean products
(implementation of new quality checks...)

EUROFLEETS

TOWARDS AN ALLIANCE OF EUROPEAN FLEETS

➤EUROFLEETS project (FP7 call)

- Kick off meeting in September 2009
- General objective : optimisation of the utilisation of the European fleet (ships and equipment)

➤3 AXIS

- NA (Networking activities) : strategic vision for research fleets and heavy equipment, interoperability, sharing of knowledge ,...
- TNA (Transnational access) : access to cruises (ships and vehicles)
- JRA (Technological development) : softwares for data management, payloads for vehicles



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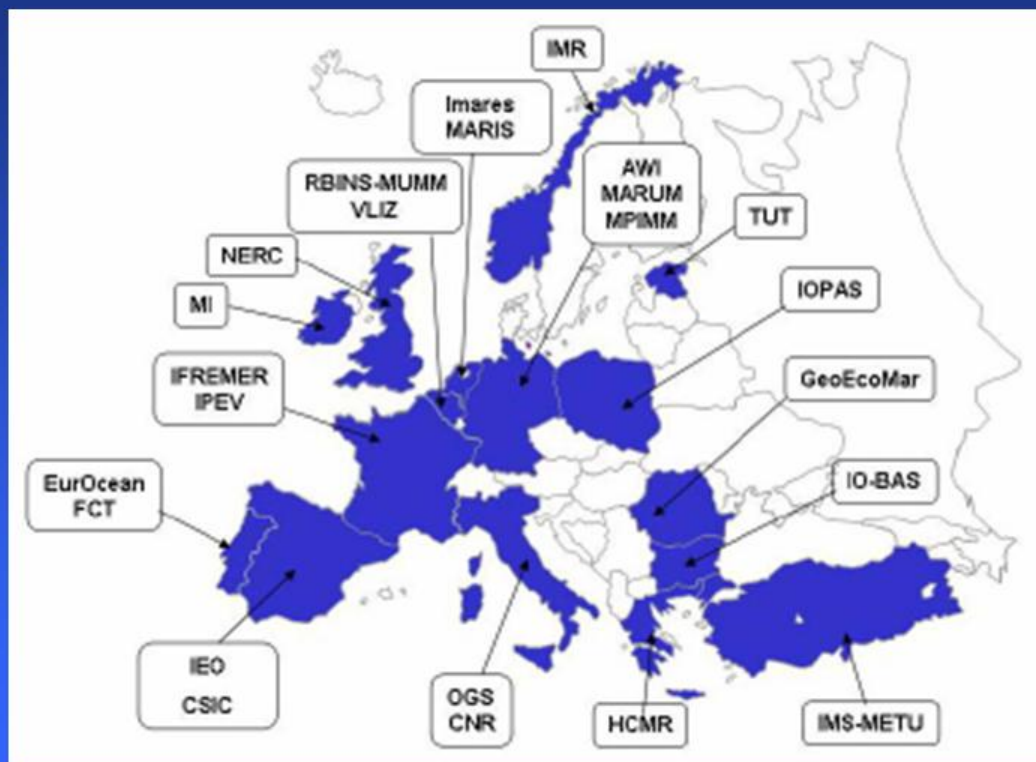
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EUROFLEETS

TOWARDS AN ALLIANCE OF EUROPEAN FLEETS

24 marine institutes,
universities,
foundations from 16
European countries



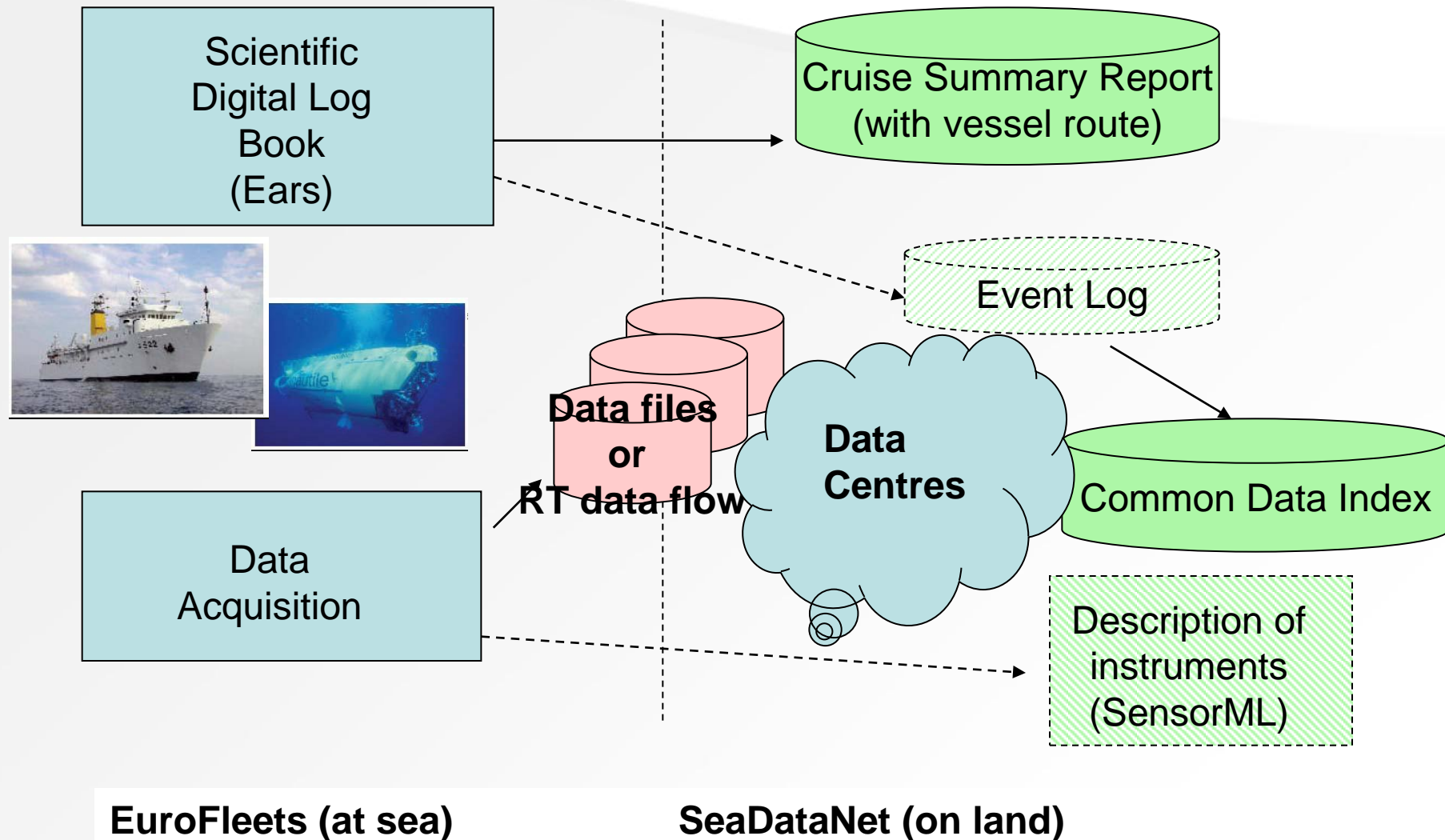


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Cooperation with EuroFleets



EuroFleet and SeaDataNet 2

- An opportunity for SeaDataNet to collect directly “high quality metadata and data” directly from vessels
- “Quality of information is better when entered by the person in charge with a minimum delay after the observation”
- Some standards (CSR, “Event log”) will have to be upgraded or developed in common
- EuroFleets + SeaDataNet/Geo-Seas is very comparable to R2R project in US.
 - ➔ Interoperability must be an objective
(Funding instruments exist)

JERICO main focus

- 1- **To set up a European Research Infrastructure for coastal observation** as needed in research and Operational Oceanography activities
- 2- **To define** the criteria for a **Label JERICO** (set of parameters, frequency, sampling scheme, data quality, data delivery...)
- 3- **To sustain networks which are in compliance with Label criteria** to secure long term series of data.
- 4- **To provide opportunities** to access to plate-forms for testing/demonstrating experiments and data for assimilation experiments
- 5- Better use of **R/V, fishing boats & ships of opportunity**
- 6- Develop a partnership strategy **to operate the pool of Gliders in Europe** (technical expertise for both vehicle and sensors, operational strategy).

JERICO criteria to be fulfilled by the measuring stations

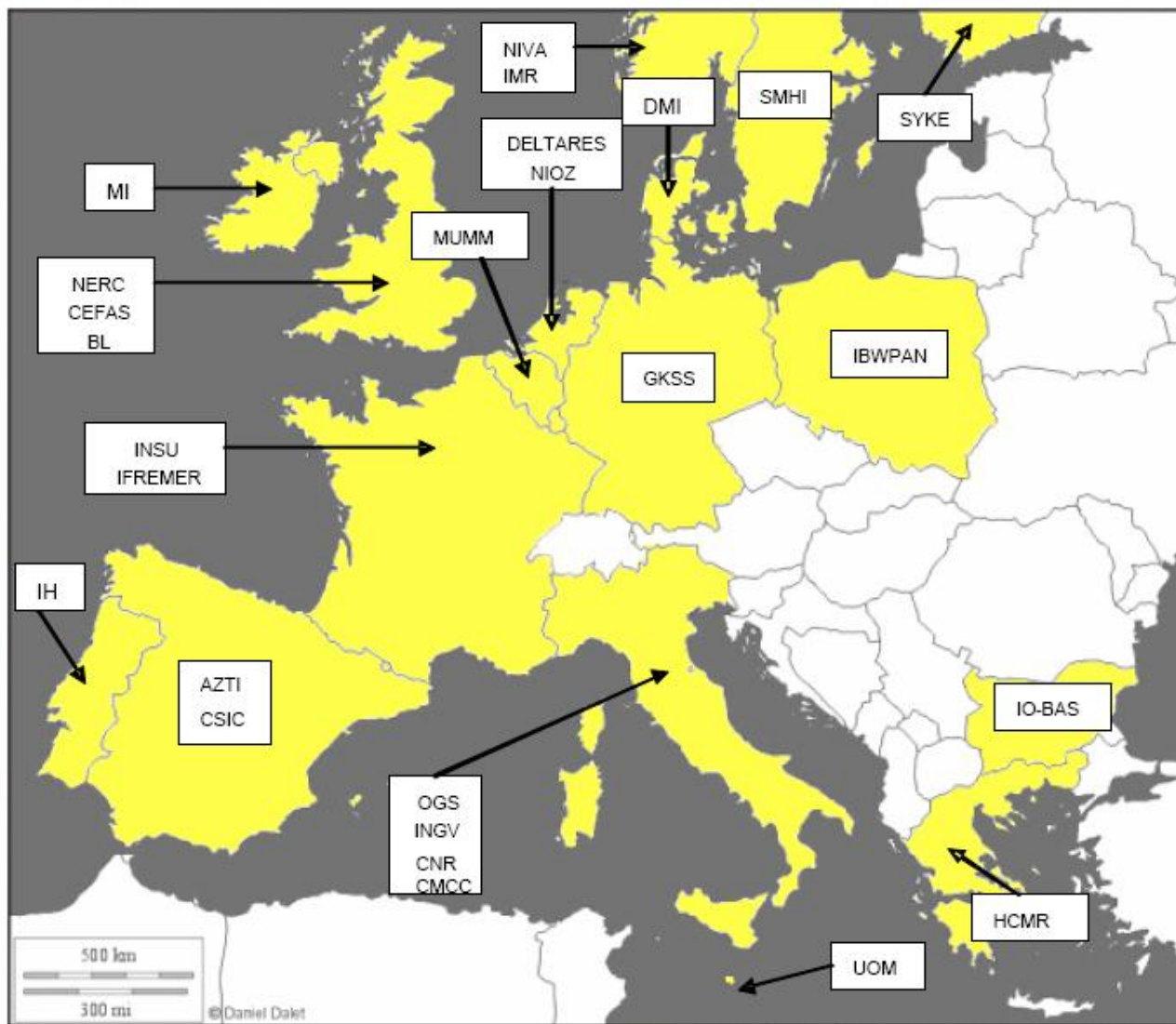
- 1 - **Automatic and continuous** measurements on **annual or seasonal** basis
- 2 - **In situ data**
- 3 - **Real time or quasi real time** for data delivery (maximum delay 1 day to 1 month TBD)
- 4 - **Data Quality Control**: minimum QC performed by operators
- 5 - **Parameters**
Mandatory (not all): T, S, Chl-a, Turb, DO, pCO₂
Optional: Nutrients: nitrates, silicates, phosphates, ammonium
- 6 - **Sampling**:
Mandatory Surface (1 m)
Optional Water column and close to sea floor



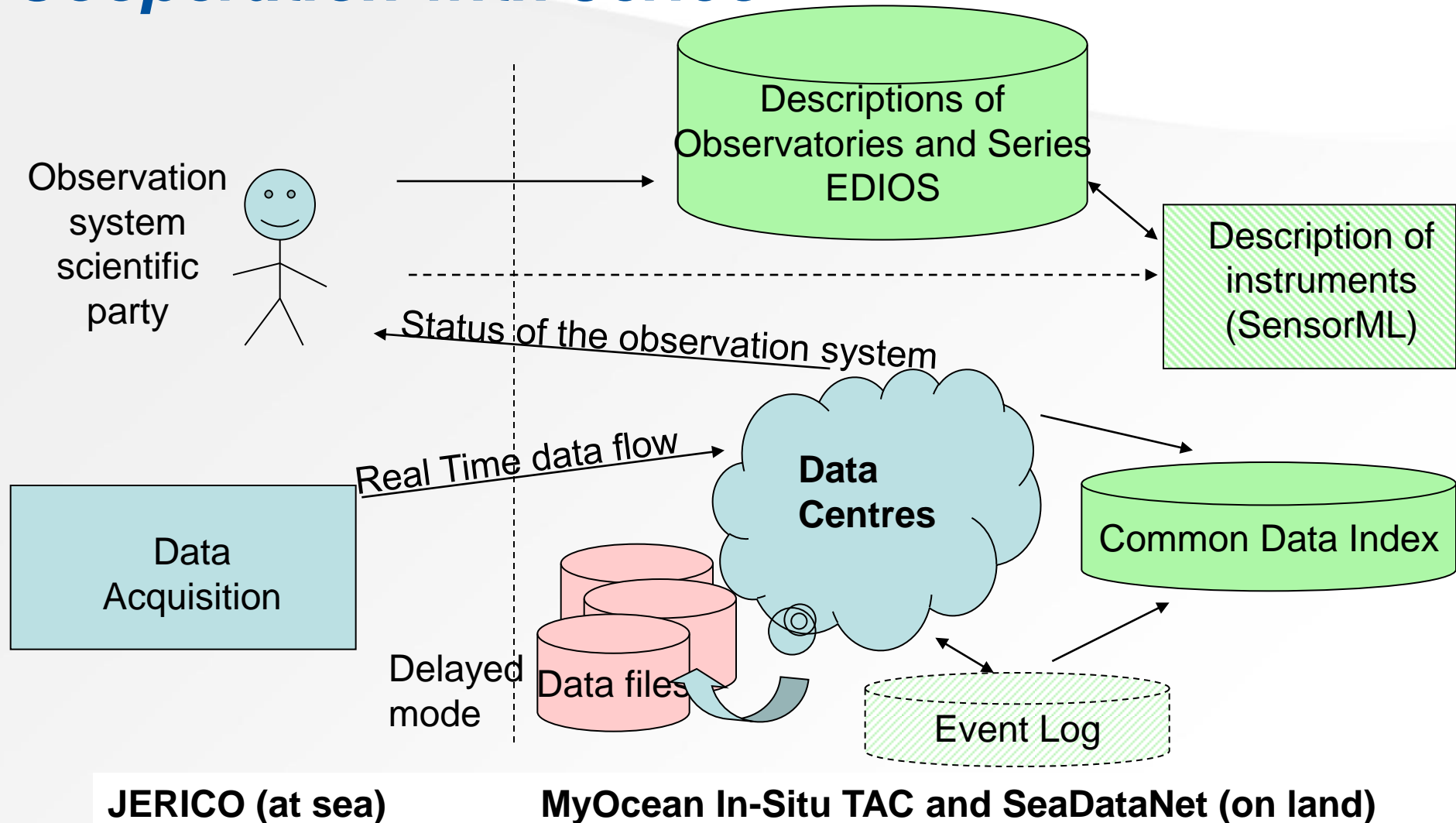
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Cooperation with Jerico



SeaDataNet 2 and others marine infrastructures

- SeaDataNet infrastructure serves as a data management component for other projects
 - Technical support : standards, vocabularies, software
 - Services : metadata and data management
data discovery, data visualisation and access
- SeaDataNet infrastructure receives directly information from other projects
 - Standardized metadata and data from vessels and observation systems”
 - Data exchanges in real time and delayed mode