EMODnet
European Marine Observation and Data Network

Preparatory Actions for
European Marine Observation and Data Network
MARE 2010/02 - Physical Parameters [SI2.579120]
-
Knowledge base for growth and innovation in ocean economy: assembly and dissemination of marine data for seabed mapping
MARE/2012/10 - Lot 6 Physics [SI2.656795]

A Novellino G Manzella D Schaap S Pouliquen L Rickards P Gorringe

EMODnet Physics

EMODnet Physics objectives

- *Provides **free and open access to marine real-time and archived data** on **physical conditions** as monitored by:*
  - Fixed Stations[1], Ferrybox[1], (Euro)Argo[2], Gliders[2], HF Radars[2]
- *Parameters*:
  - Sea Temperature[1], Sea Level[1], Sea Salinity[1], Winds[1], Waves[1], Sea Currents[1], Light Attenuation[1], Ice Coverage[2], Sea Level trends[2]
- *Geoghraphical coverage*:
  - All the European Sea Basins
- *Make **layers of physical** data and metadata **available***
- ***Determine how well data meets the need of users***
- ***Contribute** towards the definition of an operational **European Marine Observation and Data Network***

EMODnet

[1]MARE/2010/06 (2011-2013)
[2]MARE/2012/10 Lot 6 (2013 – 2016)

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EMODnet Physics

Marine Data Observation Infrastructures in Europe and EMODnet Physics approach

EMODnet Physics

Interoperability

WMS
WFS
Web services
…
socials

Reinforce

Sustain

*MARE/2012/10 Lot 6 (2013 – 2016)

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EMODnet Physics

EMODnet Physics objectives in practice:

- *Provide a **single point of access** to marine near real time and achieved data*
- *Build up on **existing infrastructures** by adding value – no unless complexity*
- *Provide a **System of Systems** to **ensure data access to any user***
- *Facilitate integration and interoperability with further systems*
  (INSPIRE compliant, WMS, WFS, etc)
- *Bring together the main European Marine Observation and Data Communities*
  (EuroGOOS, MyOcean, SeaDataNet, etc)
- ***Attract new and better data** and **new data owners/providers***
- ***Attract new users and stakeholders***
- ***Full engagement of the EuroGOOS ROOSs and ROOSs Chairs****
  (50% of the budget to empower ROOSs data interoperability infrastructure)

*MARE/2012/10 Lot 6 (2013 – 2016)

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EMODnet Physics

EMODnet Physics - Planning

WP	Activity Description	Phase 1						Phase 2						Phase 3					
	Time Frame	Year 1						Year 2						Year 3					
		2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
1.	Project management																		
5.2	Analyse further steps to be taken for improvement, expansion and sustainability																		
5.3	Assess, validate the operationality of the Information System																		

Activities:

On going

- *(Map) portal with improved features, accessibility, interoperability*
- *New backoffice sefvices to better control data and info flow*
- *Spatial gap analysis (new platform from already connected institutes)*
- *Temporal gap analysis (more and better data via ROOS and SDN)*
- *new data provider (Croatia, Malta, Cyprus, …)*
- *Data (plaform) type gap analysis - new data and metadata (Argos, Gliders, Ships…)*
- *Working groups on new data and metadata*
- *Rennovation of the portal and his contents (more docs and info)*
- *…*

EMODnet Physics

INSPIRE Services

DISCOVER

VIEW

DOWNLOAD

WMS/WFS

Data Policy

Open & Free

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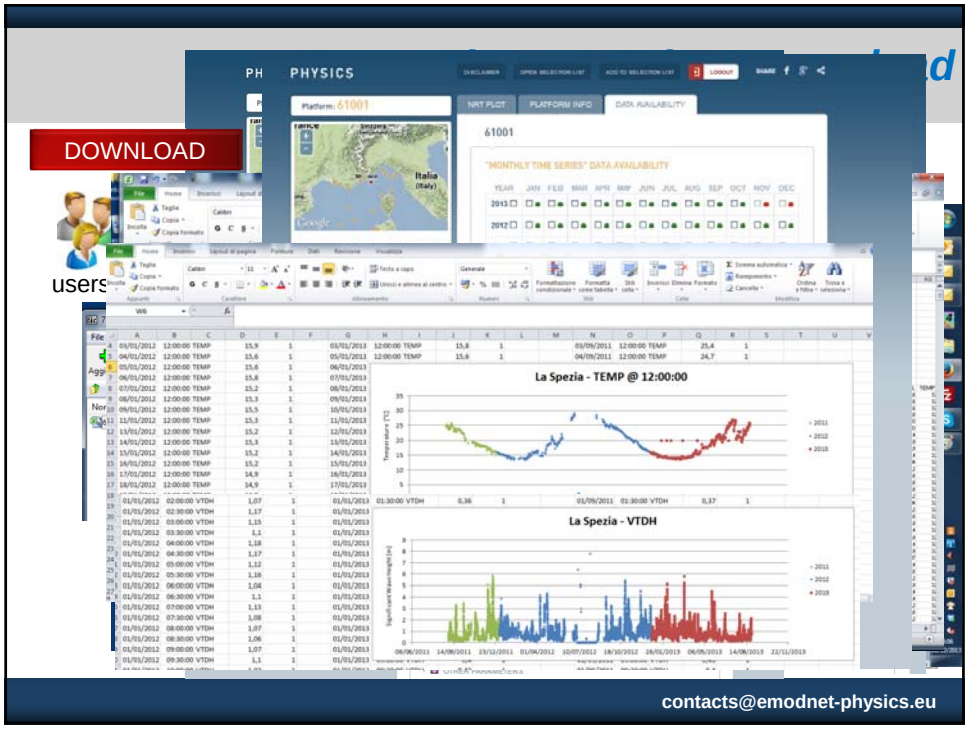
DOWNLOAD
users
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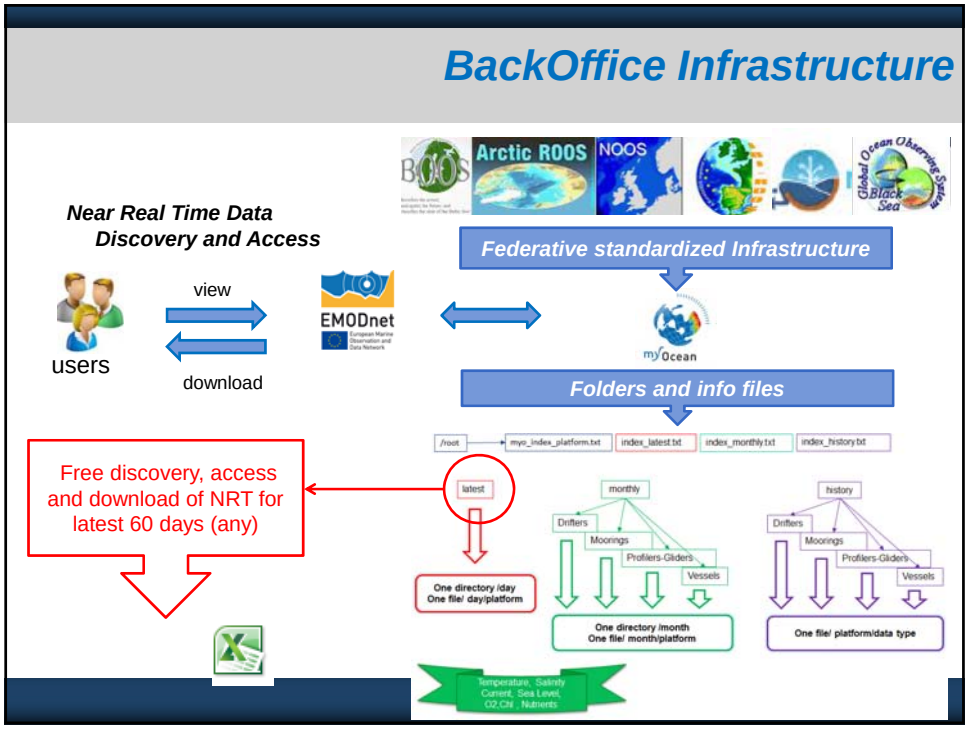
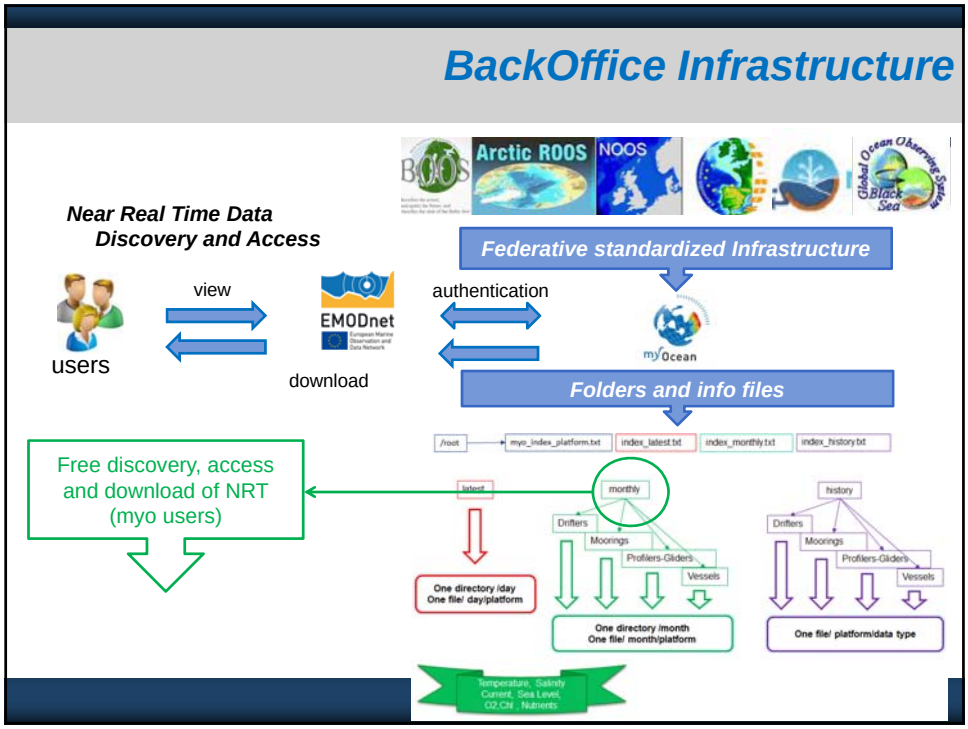
61001
La Spezia - TEMP @ 12:00:00
La Spezia - VTDH
contacts@emodnet-physics.eu

DOWNLOAD
PHYSICS
Deutschland
Italia
data from platforms lis
@emodnet-physics.eu


BackOffice Infrastructure
Near Real Time Data
Discovery and Access
users
view
download
EMODnet
Arctic ROOS
NOOS
Federative standardized Infrastructure
myOcean
Folders and info files
Free discovery, access and download of NRT for latest 60 days (any)
latest
monthly
history
Drifters
Moorings
Profilers-Gliders
Vessels
One directory /day
One file/ day/platform
One directory /month
One file/ month/platform
One file/ platform/data type
Temperature, Salinity
Current, Sea Level,
O2,Chl , Nutrients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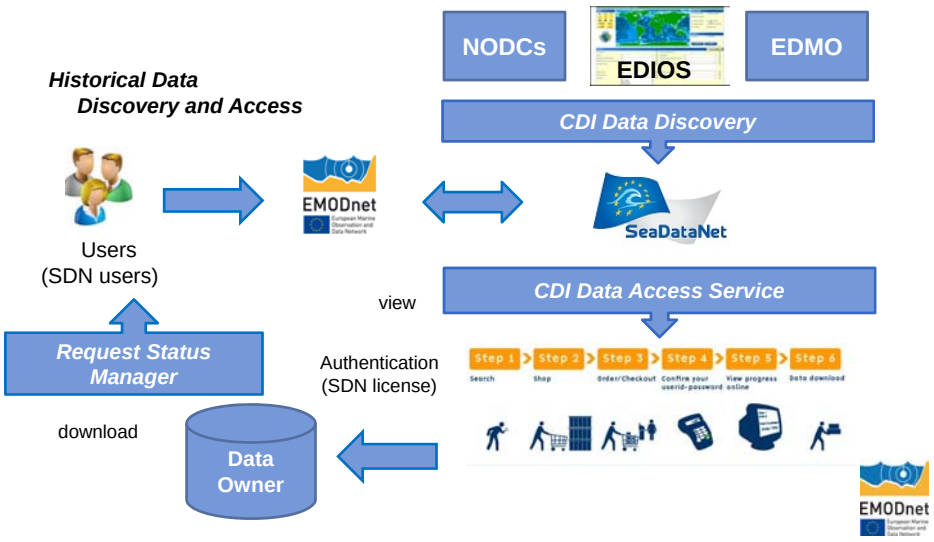
BackOffice Infrastructure



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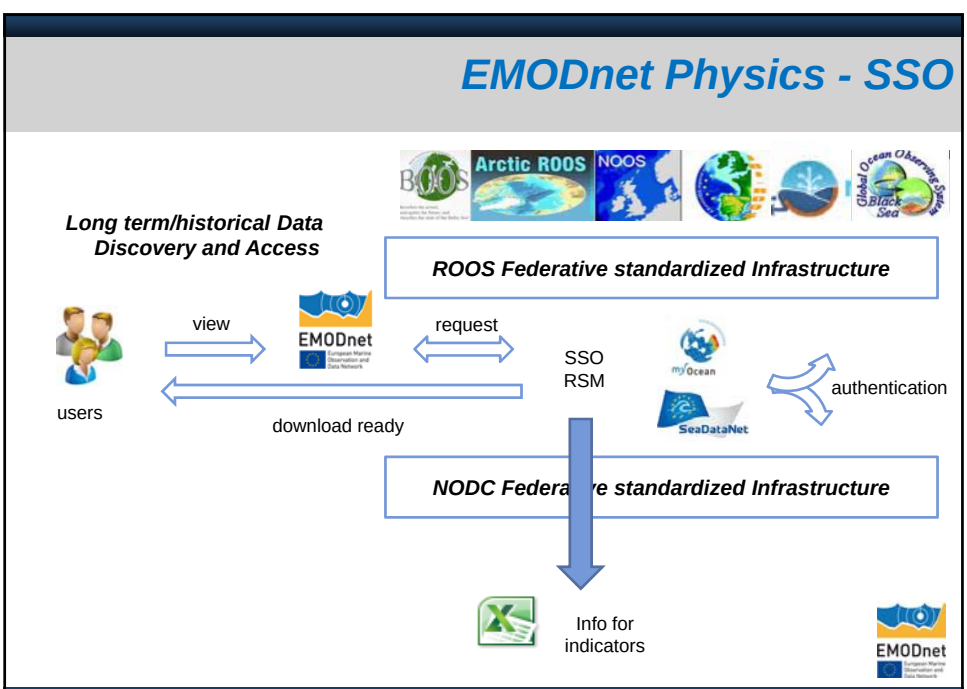
EMODnet Physics - SSO



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Proposed Indicators

1. *Volume of data made available through the portal*
   - *Restrictions → no restrictions for latest 60 days, MyO/SDN license for older data*
   - *variation of data submission → data received on daily base from all the connected platforms*
   - *number of data entries → report on:*
     - *Type of platform (MO, FB, …) and by Country or Institute*
     - *NRT parameters / CDIs (datasets) for the platforms*
2. *Organizations supplying each type of data*
   - *Broken into country and organization type*

   (IFREMER and BODC are part of the «core-consortum»)
3. *Organization that have been apporached to supply data with no result*
   - *Broken into NRT and CDI suppliers → on annual base*

Proposed Indicators

4. *Volume of each data type downloaded from each portal*
   - *EMODnet Physics is exploiting MyO and SDN infrastructure → it tracks up to IP not user, for user details (older data) we are working on an ack from those systems: unique RSM (Request Status Manager) and and easier license manager is under study/dev*
   - *EMODnet Physics provides observations*
   - *sea level and ice product foreseen later in the project*
5. *Organizations that have downloaded each data type*
   - *See point 4*
6. *Statistics – the main pages utilized and data products*
   - how long the user spent on the website (residence time) and on which page the user quits their visit → an aggregated figure (e.g. home page, documents, platforms …) e.g. GoogleAnalytics, no filters
7. *List of what downloaded data has been used for (categories)*
   - not easy to get people filling feedback forms → Secretariat (open access to portal statistics)

Proposed Indicators

8. *List of organization that have downloaded from more than one portal*
   - it can only be done by aggregating data → Secretariat
9. *Interoperability of data of different types from different portals*
   - data from different thematic lot may be very different so it's not that easy to implement interoperability → focus on the capability of the different lot to create a joint products (user cases) and feedback from Check Point projects
10. *Monitoring level of interaction with memeber states*
    - Under Article 19 of the Marine Strategy Framework Directive, there is a requirement for Member States to provide access to data resulting from the assessments and monitoring → we need a massive communication on this
    - useful to see which lot is involved/pertinent to which indicator → disseminate through member state and have a win - win approach
11. *Management Budget Overview*
    - the core-consortium never applied a personnel cost report (as you do for e.g. FP7) → we are not going to apply that kind of financial report
12. *Emodnet Citations*
    - not that easy, it needs a constant search in literature → Secretariat
    - *We can provide on annual base the list of internal publications*

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Milestones

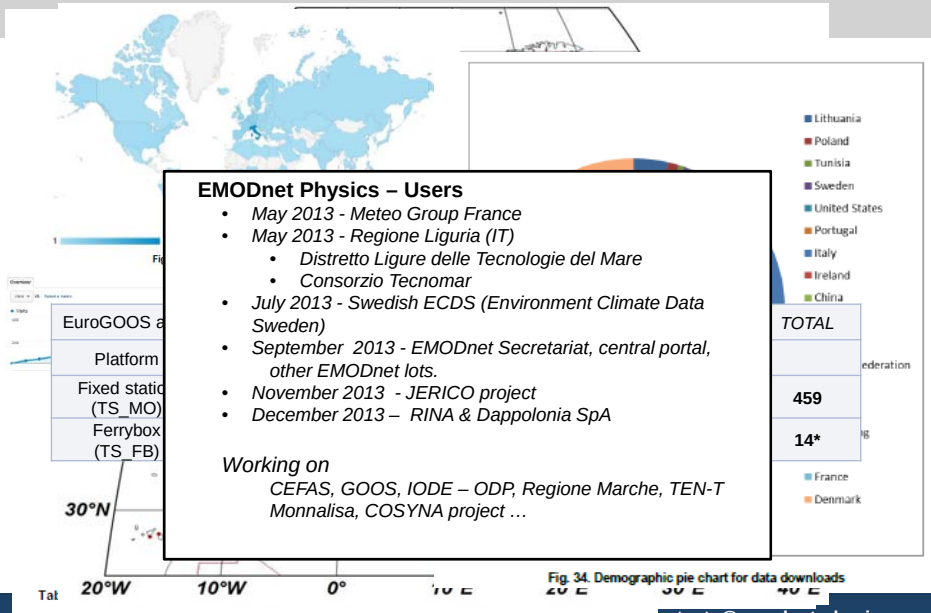

Fig. 34. Demographic pie chart for data downloads

EMODnet Physics – Users

- *May 2013 - Meteo Group France*
- *May 2013 - Regione Liguria (IT)*
  - *Distretto Ligure delle Tecnologie del Mare*
  - *Consorzio Tecnomar*
- *July 2013 - Swedish ECDS (Environment Climate Data Sweden)*
- *September 2013 - EMODnet Secretariat, central portal, other EMODnet lots.*
- *November 2013 - JERICO project*
- *December 2013 – RINA & Dappolonia SpA*

Working on

CEFAS, GOOS, IODE – ODP, Regione Marche, TEN-T Monnalisa, COSYNA project …

http://www.emodnet-physics.eu/ar/dashboardserver/default.aspx

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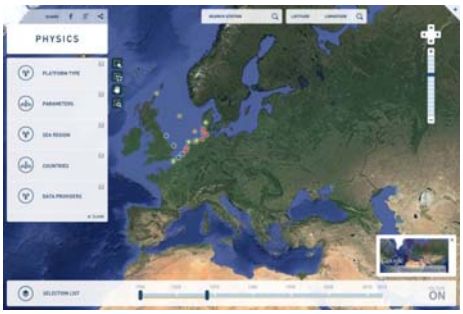
Contact us!



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Thank you

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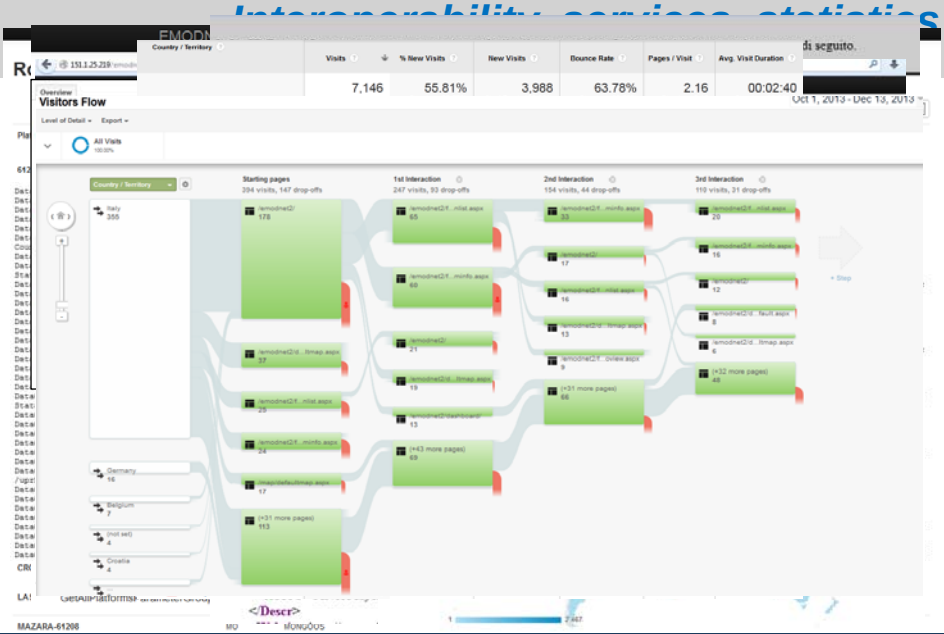
Interoperability, services, statistics



http://www.emodnet-physics.eu/map/Dashboard/Default.aspx