



Agenda

09:30 – 09:40	Welcome – Introductions	<i>M. Fichaut + all</i>
09:40 – 10:15	Project overview (WP2)	<i>M. Fichaut</i>
10:15 – 10:50	Technical review (WP8, WP9)	<i>D. Schaap</i>
10:50 – 11:15	Deliverables review	<i>M. Fichaut</i>
11:15 – 11:30	Training activities (WP3)	<i>S. Scory</i>
11:30 – 12:20	Metadata catalogues (WP4, WP5), overview and demonstrations on data access	<i>A. Iona, A. Che-Bohnenstengel, D. Schaap</i>
12:20 – 12:45	Promotion and dissemination, User panel (WP6, WP7)	<i>L. Pecci, A. Giorgetti</i>
12:45 – 14:15	<i>Lunch break</i>	
14:15 – 14:50	Development of products (WP10)	<i>S. Simoncelli</i>
14:50 – 15:25	Management aspects (WP1)	<i>D. Schaap, M. Fichaut</i>
15:25 – 15:50	Implementation plan for next period	<i>D. Schaap</i>
15:50 – 16:50	Questions	
16:50 – 17:30	Review panel and preliminary feedback	<i>A. Robin, P. Baumann</i>



Attendees

- 30 partners represented
- 14 excused because of other obligations however represented by other partners



Mid-term review, 12 December 2013, Brussels



SeaDataNet

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

Project overview

Overall objectives of the project, role of partners, coordination activities

Summary

- Why SeaDataNet?
- History and context
- SeaDataNet 2 versus SeaDataNet
- Contractual type of activities
- Management structure
- Role of partners
- Coordination activities

Why SeaDataNet?

- Ocean observations are very distributed
 - More than 2000 laboratories collecting data over countries bordering the European seas
 - More than 100 Data centres
 - Different data policies
 - Different data formats
 - Different data management rules
 -



Why SeaDataNet?

- Ease the data user's life
 - One data access point to many data sources
 - Harmonized results of data requests
 - Formats, quality, vocabularies...
- Data originators keep the control on their own data
 - Data policy, restriction of access, quality checks with local/regional expertise ...
- Improvement of the global visibility on data
 - Synthetic products
 - Geo-statistical analysis



Before SeaDataNet

- 1990's – MAST projects
 - EDMED (1991-1993): inventory of European marine data sets
 - EURONODIM (1998-2001): inventories of European marine data sets, Cruise summary reports (CSR), marine research projects
 - EUROCORE – EUMARSIN (1998 - 2001): Geosciences – Geological Core data
 - MEDATLAS (1994-1997), MEDAR/MEDATLAS II (1998-2001)
 - 2000's - MAST and FP5 projects
 - EUROSEISMIC (2001-2004): Geosciences - Seismic and sonar data
 - EDIOS (2001-2004): Inventory of ocean observing systems
 - SEA-SEARCH (2002-2005): follow-up of EURONODIM
 - Merging Metadata or/and Data input by project partners
- Compilation - centralisation
 - Distribution of homogeneous metadata and data
 - Beginning of the standardisation



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SeaDataNet (1st phase)

– FP6 – 2006-2011

- Standardisation
- Interoperability
- Distributed data centres



SeaDataNet (49 partners) has set up a pan-European infrastructure for managing marine and ocean data by connecting National Oceanographic Data Centres (NODCs) and oceanographic data focal points from 34 countries bordering European seas



SeaDataNet principles

- SeaDataNet is **based on a semi-distributed system** that incorporates and enhances the existing NODC network.
- Major technical development activity enables the **data centres to interact as a virtual data centre, able to deliver integrated data, meta-data and products of controlled quality through a unique portal**



SeaDataNet : main results of 1st phase

- Development of common standards
 - Vocabularies
 - Transport formats
- European catalogues with standardised XML ISO-19115 descriptions
- One unique portal to access all data : virtual data centre
- Set of tools to be implemented in each data centre
 - MIKADO : generator of XML descriptions of SeaDataNet catalogues
 - XML VALIDATOR : validator of XML files for all catalogues
 - NEMO : reformatting software to SeaDataNet formats
 - Download Manager (DM) and Request Status Manager (RSM) : downloading software
 - ODV : Ocean data view adapted to SeaDataNet needs
 - DIVA : for product generation adapted to SeaDataNet needs

SeaDataNet : 6 European catalogues

- **EDMO** : European Directory of Marine Organisations
 - 1 organisation or 1 department/laboratory of one organisation - IFREMER/SISMER



- **CSR** : Cruise Summary Reports
 - 1 cruise = 1 report



- **EDMED** : European Directory of Marine Environmental Datasets
 - 1 set of data : 1 EDMED - MEDAR/MEDATLAS database

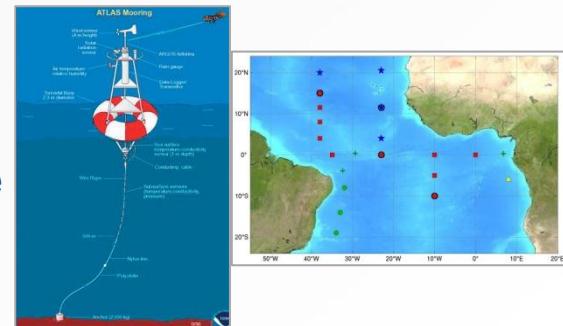


SeaDataNet : 6 European catalogues

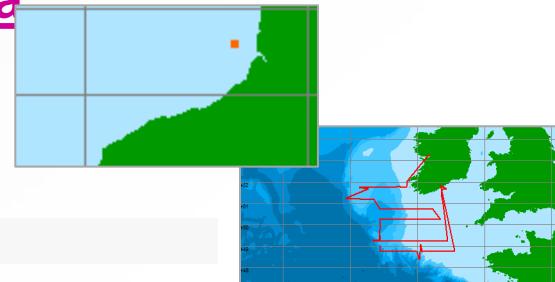
- **EDMERP** : European Directory of Marine Environmental Research projects
 - 1 project = 1 EDMERP - SeaDataNet 2



- **EDIOS** : European Directory of Initial Observing Systems
 - 1 permanent observatory = 1 EDIOS programme
a network of meteorological buoys



- **CDI** : Common Data Index → Access to data
 - 1 point or one time series or 1 trajectory = 1 CDI
 - CTD station, 1 current meter series, 1 trajectory of Thermosalinograph





SeaDataNet 2 (2nd phase)

- FP7 (2011-2015)

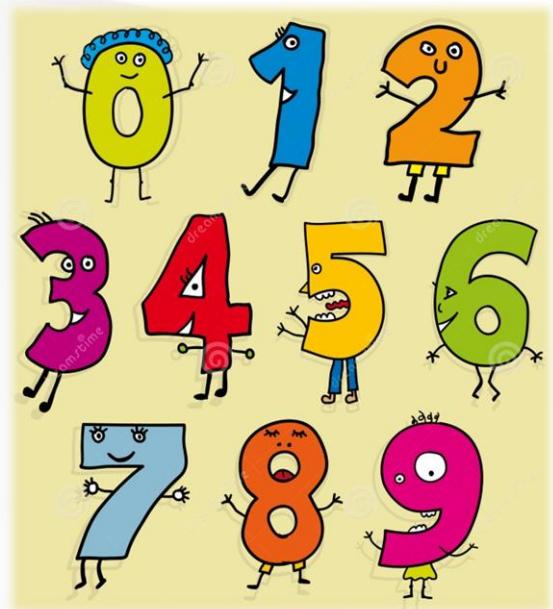


Objectives:

to upgrade the SeaDataNet infrastructure as existing at the end of SeaDataNet project (March 2011) into an operationally robust and state-of-the-art Pan-European infrastructure for providing up-to-date and high quality access to ocean and marine metadata, data and data products

SeaDataNet 2 : Key figures

- Start 1st of October 2011
- Duration 4 years
- Budget 6 M€
- 44 partners from 30 countries
- 14 subcontractors
- 1 associate partner
- Total of 35 countries represented
- 59 participants, 46 data centres
- 602 man/month



SeaDataNet - SeaDataNet 2, what's new?

- Definition of NetCDF SeaDataNet format for data
- Duplicate management on CDI catalogue
- Monitoring of the infrastructure





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SeaDataNet - SeaDataNet 2, what's new?

- **Operational** update of the SeaDataNet catalogues (CDI, CSR) using OGC CSW (Catalogue Service for the Web)
- **INSPIRE** directive compliance : **ISO-19139** standard for XML description of the catalogues



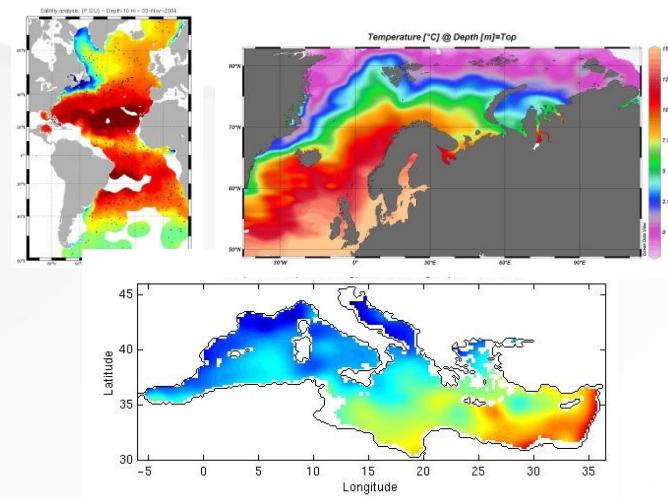
SeaDataNet - SeaDataNet 2, what's new?

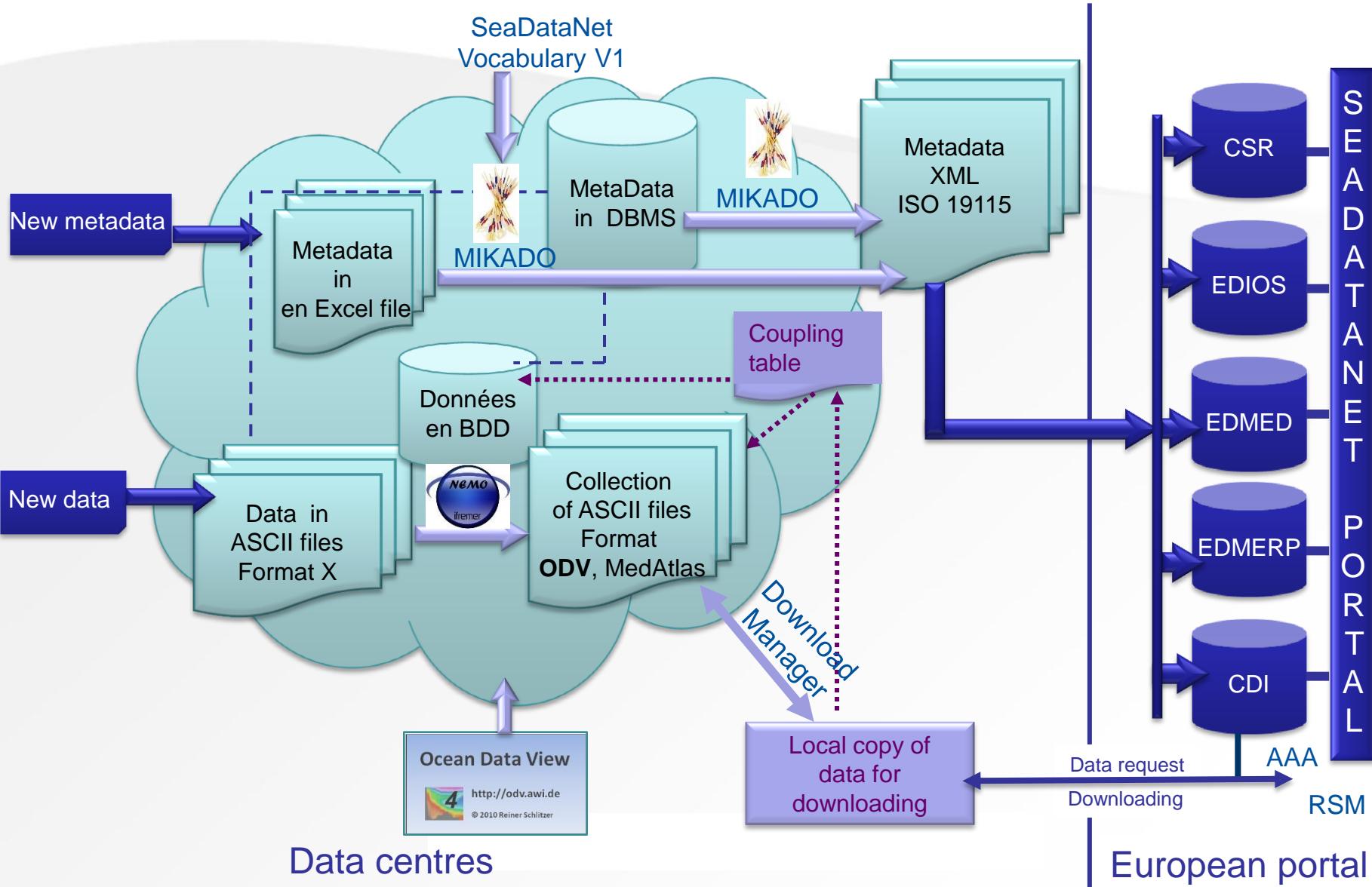
- **Machine to machine interface** for data and product distribution to regular end-users (operational oceanography)
- Improve capability for handling also **marine biological data** in close cooperation with EurOBIS, MarBEF, and LifeWatch initiatives



SeaDataNet - SeaDataNet 2, what's new?

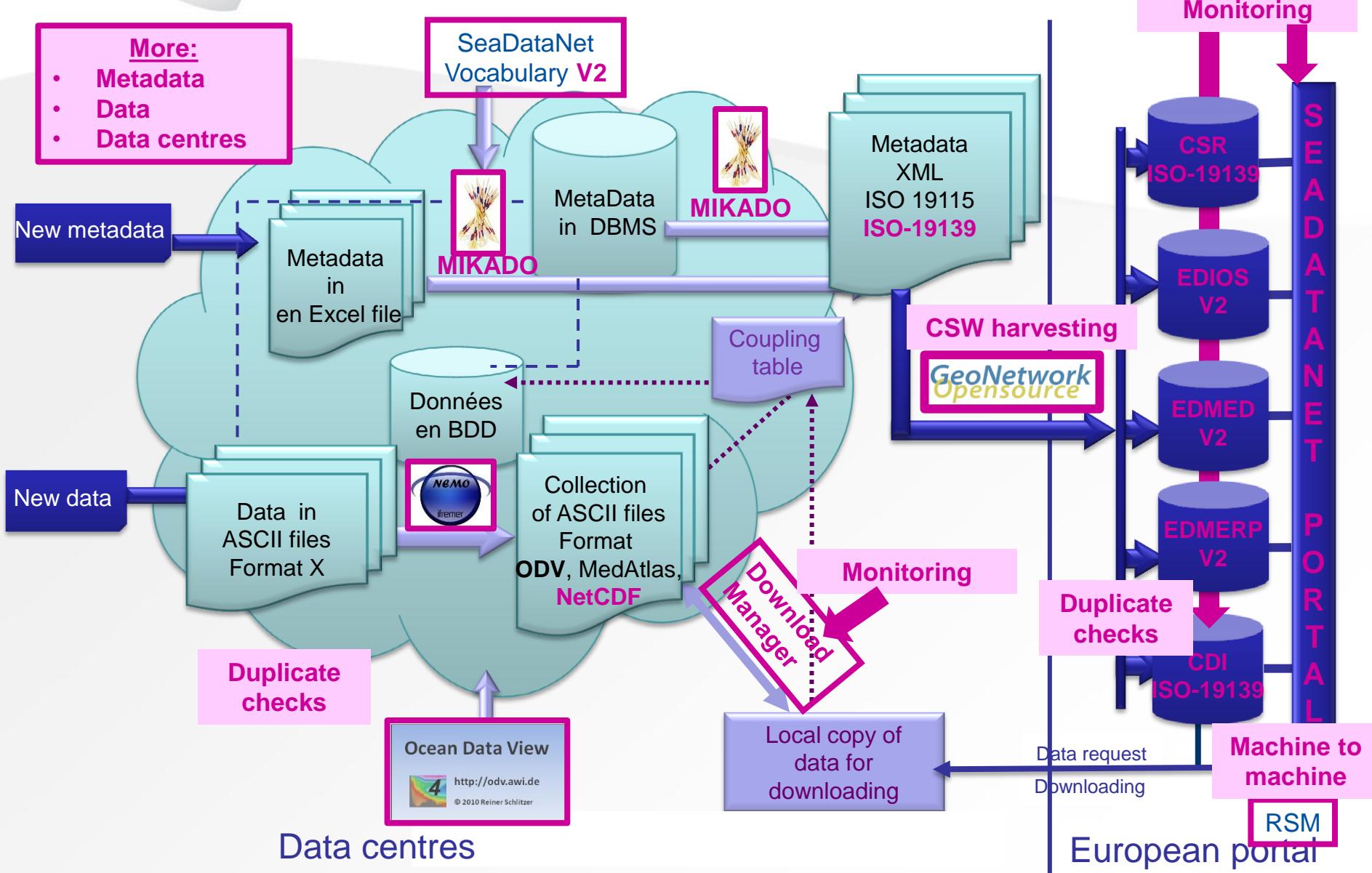
- Product : aggregated data sets at full basin scale **using the datasets made available via the SeaDataNet infrastructure**
- **Development of true synergies with other projects Eurofleets, Jerico, MyOcean...**







SeaDataNet 2



SeaDataNet 2 : 3 types of activity

- Three types of activities, 10 Work packages
 1. Coordination
 - WP1: Project management (IFREMER)
 - WP 2: Project coordination and infrastructure monitoring (IFREMER)
 - WP3: Capacity building and training (RBINS-BMDC)
 - WP4: Metadata directories (HNODC)
 - WP5: Data discovery, access and viewing services (CDI and data sets), management of the CDI directory (MARIS)
 - WP6: Communication, dissemination, promotion to users, data providers and EU initiatives (ENEA)
 2. Support
 - WP7: Services to give scientific access to metadata, data, aggregated data sets and data products (OGS)

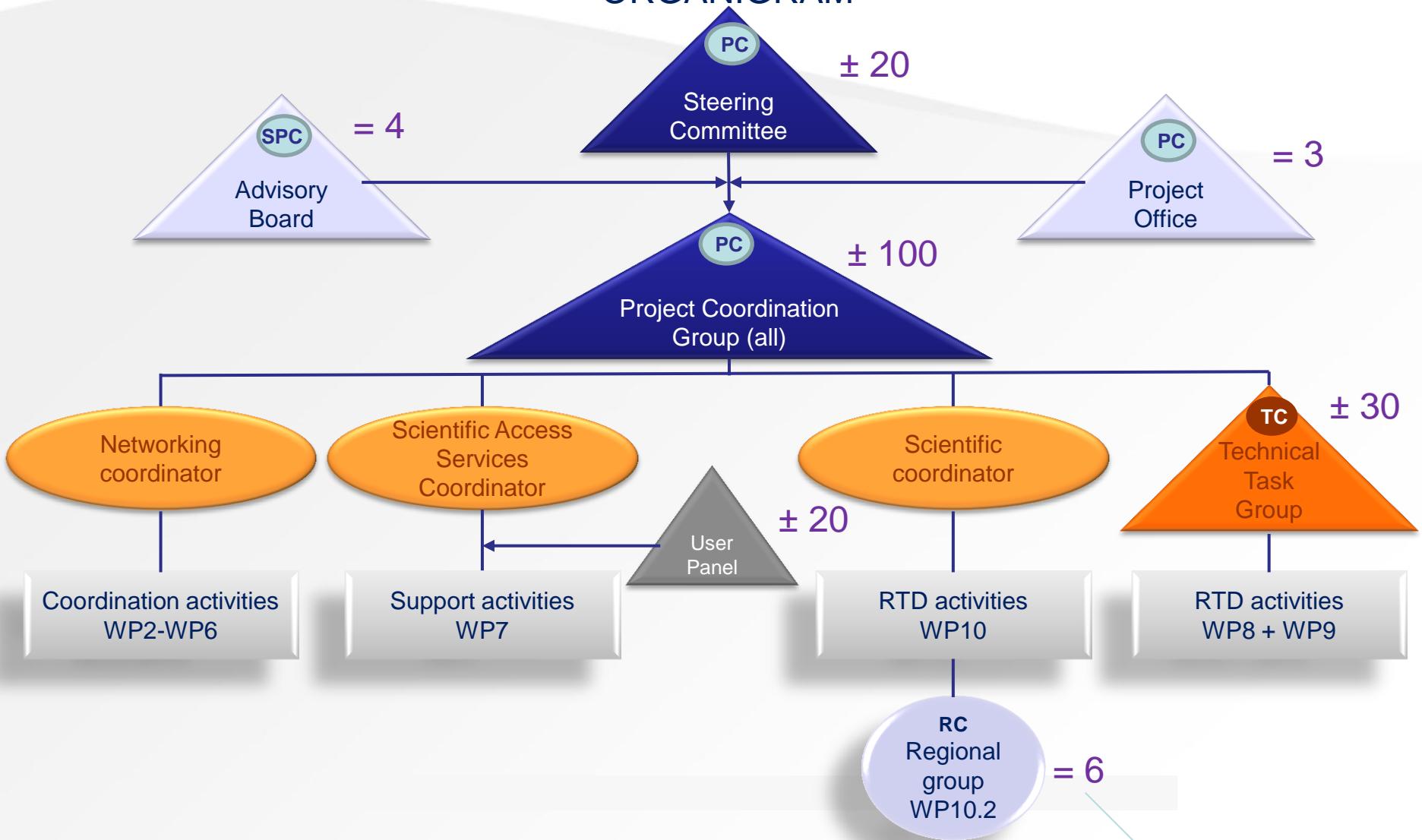
SeaDataNet 2 : 3 types of activity

- Three types of activities
 - 3. Research and Technical development (RTD)
 - WP8: Specification and governance of standard metadata, data and data product formats, qc methods, common vocabularies and new services (BODC)
 - WP9: Development and governance of software tools, services and interoperability solutions (MARIS)
 - WP10: Development and regular updating of standard data products for maritime regions the Arctic waters, the North Sea, the North Atlantic Ocean, the Baltic Sea, the Mediterranean Sea and the Black Sea (INGV)

Management : Structure

- Key-committees:
 - Steering committee (StC)
 - Project Coordinator (IFREMER), Technical Coordinator (MARIS), Networking coordinator (HNODC), Scientific Coordinator (INGV), Scientific Access Services Coordinator (OGS), Strategic Promotion Coordinator (JRC), Work package leaders, Regional Coordinators for products (if necessary)
 - RIHMI-WDC (IOC/IODE ocean portal), ICES (MSFD : Marine Strategy Framework Directive), VLIZ (Marine biological data management)
 - Project office (PO for supporting PC and StC)
 - Technical task group (TTG)
 - Advisory group (group of external experts)
 - Project coordination group of all partners and subcontractors

ORGANIGRAM



Partners' roles (1)

- Project management and coordination
 - Project coordinator (1)
 - Technical coordinator (1)
 - Work package Leaders (8)
- Specific roles
 - – Central catalogues and services managers (5)
 - – Regional coordinators for products (6)
 - – Software and standard developers (10)
 - – Data centres (45)



Central catalogue managers' role

- Maintain and Upgrade the tools for the catalogues (Content Management System for manual input, loading software, extracting software, discovery interface)
- Helpdesk
- Keep partners informed on the new developments
- Load the new XML files coming from partners
- Feedback to partners
- Training of partners

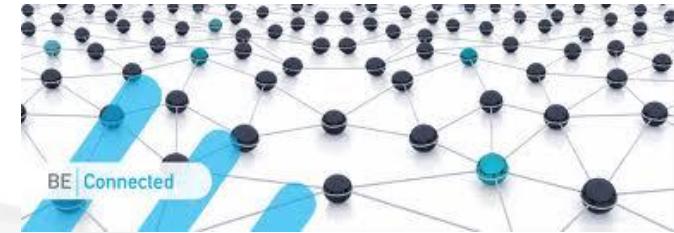




SeaDataNet

Data centres role

- Be connected to the infrastructure
- Keep the SDN system available ‘continuously’
- Regularly update the catalogues content with [new data](#) and metadata and updates of existing records
- Manage the user data requests for non public data
- Manage the SDN user’s role at the national level
- Upgrade the SDN tools each time new deliveries are available
- Attend the SDN training courses



Regional coordinators' role

- Aggregate data sets and control overall quality
- Report gaps to NODCs
- Complement the regional data sets
- Generate a set of generic data products as aggregated datasets and climatologies
- Harmonise between sea basins
- Validate products and report on the quality and the possible limitations of the data sets used
- Make products available online



Coordination activities – WP2

- Organisation of 3 plenary meetings
 - Athens, Greece, 19-21 October 2011
 - Rhodes, Greece, 19-21 September 2012
 - Lucca, Italy, 26-27 September 2013
- Organisation of 5 steering committees
 - Athens, Greece, 18 October 2011
 - Paphos, Cyprus, 28 March 2012
 - Rhodes, Greece, 18 September 2012
 - Paris, France, 27-28 March 2013
 - Lucca, Italy, 22 September 2013

Coordination tools (1) – Mailing lists

- 13 mailing lists specific to the project
 - **For project groups** : sdn2-advisoryboard, sdn2-partners, sdn2-po, sdn2-stcom, sdn2-subcontractors, sdn2-tech, sdn2-all
 - **For thematic groups** : sdn2-dm, sdn2-nagios, sdn2-netcdf, sdn2-product, sdn2-product-leader, sdn2-sextant,
- 1 mailing lists for users
 - sdn-userdesk



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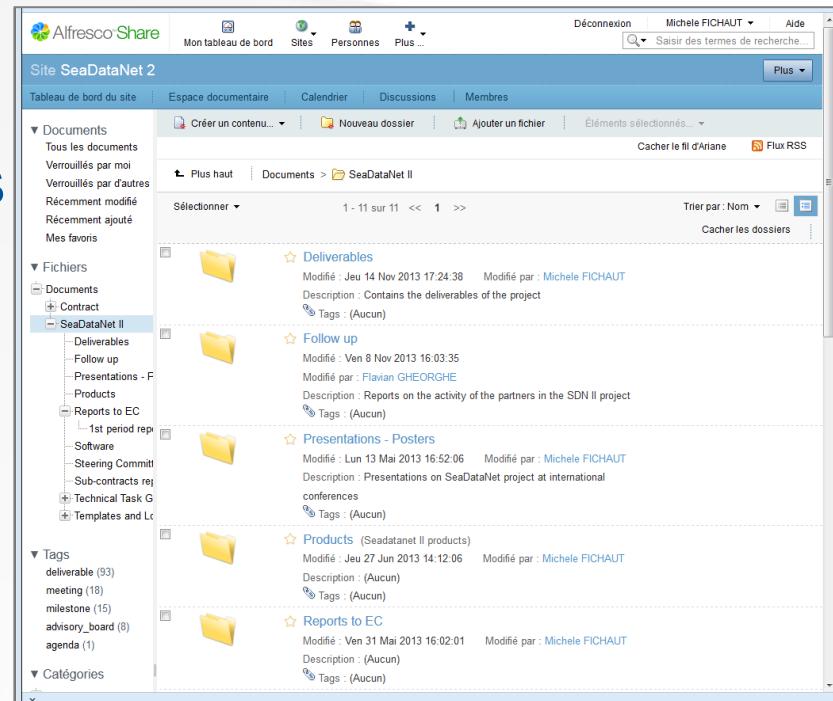
Coordination tools (2) – Web site

- Main menu
- Tool bar
 - Contact
 - Extranet access
 - Related links
- Other sections
 - News
 - Feedback
 - Shortcuts
 - Newsletters
 - EU portal

The screenshot shows the SeaDataNet website's main page. At the top, there's a banner with the SeaDataNet logo and the text "PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT". Below the banner is a navigation menu with links: Overview, Metadata, Data Access, Standards & Software, Products, Events, Publications. The main content area features a large image of a research ship, the METEOR, sailing on the ocean. To the right of the image is a sidebar with several sections: "News" (with a link to "New release of MIKADO Version 3.3 available"), "IMDIS 2013" (with a link to "Presentations on line"), "Plenary meeting, Sept 2013" (with a link to "Presentations on line"), "DIVA Workshop" (with a link to "5-7 November, Calvi (France)"), "Newsletters" (with a link to "Click here to Newsletters"), "EU Participant Portal" (with a link to "Click here to PP"), and "Feedback" (with a link to "Your feedback on SeaDataNet Questionnaire"). At the bottom left is the "SEVENTH FRAMEWORK PROGRAMME" logo, and at the bottom right is the word "Webmaster".

Coordination tools (3) - Extranet

- For document sharing
- Restricted access
 - Contract and sub-contracts
 - Deliverables
 - TTG documents
 - SeaDataNet presentations
 - Products
 - Reports to EC
 - Templates and logos



The screenshot shows the Alfresco Share interface for the SeaDataNet II document library. The left sidebar contains navigation links for Documents, Fichiers, Reports to EC, Tags, and Catégories. The main content area displays a list of documents and folders. Key items include:

- Deliverables**: Modified: Jeu 14 Nov 2013 17:24:38, Modified by: Michele FICHAUT. Description: Contains the deliverables of the project.
- Follow up**: Modified: Ven 8 Nov 2013 16:03:35, Modified by: Flavian GHEORGHE. Description: Reports on the activity of the partners in the SDN II project.
- Presentations - Posters**: Modified: Lun 13 Mai 2013 16:52:06, Modified by: Michele FICHAUT. Description: Presentations on SeaDataNet project at international conferences.
- Products (Seadatanet II products)**: Modified: Jeu 27 Jun 2013 14:12:06, Modified by: Michele FICHAUT. Description: (Aucun).
- Reports to EC**: Modified: Ven 31 Mai 2013 16:02:01, Modified by: Michele FICHAUT. Description: (Aucun).

WP2 - Monitoring

- **Network monitoring** : use of a system that constantly monitors a computer network for slow or failing components and that notifies the network administrator in case of outages
- **50 services monitored**
 - 7 SDN central services
 - 43 SDN download managers

Service	% Time OK	% Time Critical
ROSCOP homepage	98.910%	1.090%
CDI homepage 1	99.965%	0.035%
CDI homepage 2	99.965%	0.035%
EDIOS homepage	99.965%	0.035%
EDMERP homepage	99.965%	0.035%
EDMO homepage	99.965%	0.035%
SeaDataNet homepage	99.836%	0.164%
Average	99.796%	0.204%

WP2 – Monitoring portal

- User identification
- Administration capabilities for portal administrator
- View only capabilities of services for portal users
 - Current service state
 - State and Alert Histograms,
 - Latest Alerts report
- SDN node can request for the monitoring of a new service



