

*SeaDataCloud, Kick-off meeting – Riga – Nov. 30 – Dec. 1, 2016*



**SeaDataNet**

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

**Meeting agenda**

## ***Day 1, November 30<sup>rd</sup>, 2016***

- **Morning: general issues**
  - Project overview, Management and Network organisation (IFREMER)
  - Technical challenges (MARIS)
  - EUDAT services and partners (EUDAT – CSC)
- **Afternoon**
  - 10 new members of the consortium : Presentation of their activities and the link with and role in SeaDataCloud
    - Deltares (Netherland), SYKE (Finland), UkrSCES (Ukraine), ETT (Italy), EuroGOOS (international), GEOMAR (Germany), 52°North (Germany), CNRS (France), UniBo (Italy)

## ***Day 2, December 1<sup>st</sup>, 2016***

- Morning: Joint Research Activities (MARIS)
  - Technical developments and work plan for the first year in WP8, WP9 and WP10, presentations by partners involved in the developments
- Afternoon
  - The scientific committee: role and expectations (EU-JRC)
  - Networking activities and Virtual access
    - Presentation by WP leaders of WP3 (training), WP4 (Communication), WP5 (metadata and data content) and WP6 (Core and advanced services) of the Work plan for the coming year
  - SeaDataNet AISBL (RBINS)
  - Work plan for next year (IFREMER)
  - Advisory board comments
- Scientific committee meeting 16:30 – 18:00 PM

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**SeaDataCloud Project Overview,  
Management and organisation (WP1),  
Project coordination (WP2)**

M. Fichaut

## **Overview**

- Brief summary of SeaDataNet
- SeaDataCloud key figures and partnership
- SeaDataCloud overview
- SeaDataCloud management
- SeaDataCloud coordination tools
- Planning of reporting to the EC
- Status of the contracts and 1<sup>st</sup> payment

## ***SeaDataNet : a brief summary***

A pan-European infrastructure set up and operated for managing marine and ocean data in cooperation with the NODCs and data focal points of 34 countries bordering the European seas

- It is **based on a semi-distributed system** where metadata are described in centralised catalogues while data are distributed in the different data centres connected to the infrastructure
- Major technical developments enable all **data centres to interact as a unique virtual data centre, able to deliver integrated data, meta-data and products** of controlled quality **through a unique portal**



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## Portal with standards, tools, and services, both for users and data centres

The screenshot displays the SeaDataNet website interface. At the top, the logo and the text 'PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT' are visible. Below the logo is the 'SeaDataNet' name. A navigation menu includes 'Overview', 'Metadata', 'Data Access', 'Standards & Software', 'Products', 'Events', and 'Publications'. A search bar is located on the right side of the navigation area.

The main content area features a large blue banner with the heading 'DATA ACCESS'. The text below the banner reads: 'The SeaDataNet infrastructure links 45 national oceanographic data centres and marine data centres from 35 countries riparian to all European seas. The data centres manage large sets of marine and ocean d... +'. Below this text is a photograph of a scientific instrument being deployed from a ship's deck into the ocean, surrounded by ice floes.

On the right side of the page, there is a 'News' section with the following items:

- New release of NEMO**  
Version 1.6.3 available
- IMDIS 2016**  
Gdansk (Poland) - October 11-13, 2016
- New SeaDataNet Newsletter**
- SeaDataNet final meeting**  
Presentations on-line!

Below the news section are two 'Newsletters' links:

- [Click here to Newsletters](#)
- [Click here to PP](#)

At the bottom of the page, there is a 'Feedback' section with the link: [Your feedback on SeaDataNet](#).

The footer of the page includes the 'SEVENTH FRAMEWORK PROGRAMME' logo on the left and the website URL 'www.seadatanet.org' in the center. On the right side of the footer, the text 'Webmaster' is visible.



## *SeaDataNet standards*

- Set of common standards for the marine domain, adapting ISO and OGC standards and achieving INSPIRE compliance
  - **Adoption of ISO 19115 – 19139 standard for describing metadata** on data sets, research cruises, monitoring networks, and research projects => marine metadata profiles, schemas, schematron rules
  - **Controlled vocabularies** for the marine domain (>65,000 terms in 82 lists), with international governance and web services
  - **Standards data exchange formats** : ODV ASCII and NetCDF (CF) fully supported by controlled vocabularies
- Maintenance and dissemination of standard Quality Assurance-Quality Check (QA-QC) procedures, together with IOC/IODE and ICES



## *SeaDataNet services and tools*

- **Set of tools** to be used each data centre and freely available from the SeaDataNet portal: metadata editor (MIKADO), data conversion software (NEMO), download manager (DM), data analysis software (ODV), data interpolation software (DIVA)
- **Pan-European services** for harmonised discovery, access, visualisation of data and data products
- Common SeaDataNet **Data Policy** and SeaDataNet **OGC License**
- **Capacity building** by training workshops for uptake of standards and tools by the data centres in order to achieve standardisation



**OGC** License



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# SeaDataNet metadata directories (1)

## EDMO Organisations

## CSR Research cruises

## EDMERP Projects

## EDMED Data sets

## EDIOS Observing programmes

## CDI Data index

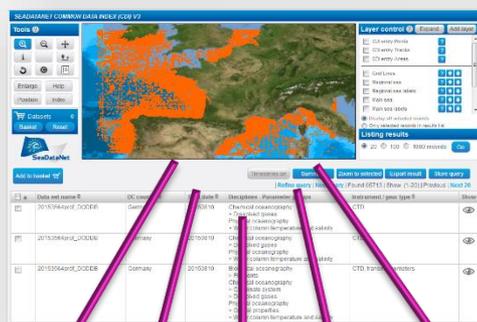


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## CDI service for discovery and unified data access



Search  
and  
Shop



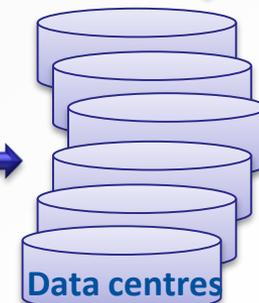
Data  
Shop

Already 102 data centres connected and more underway



Metadata

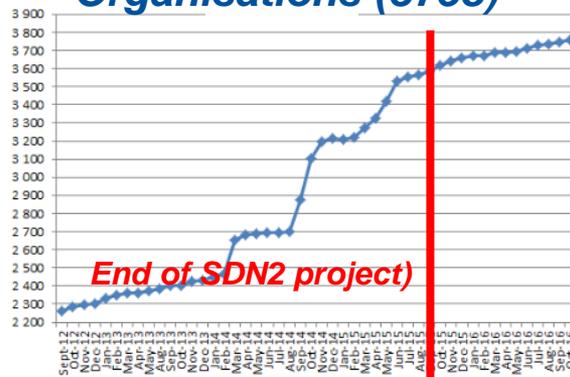
+ transaction data



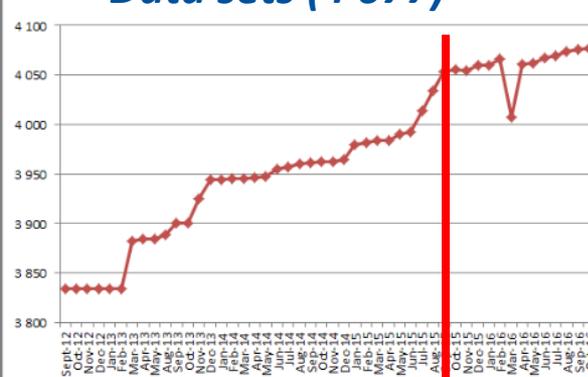
European data sources  
data centres ← ≈ 600 originators

# SeaDataNet metadata directories (2)

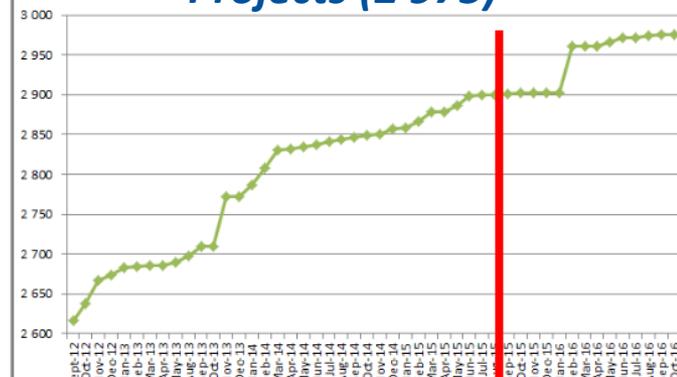
## Organisations (3758)



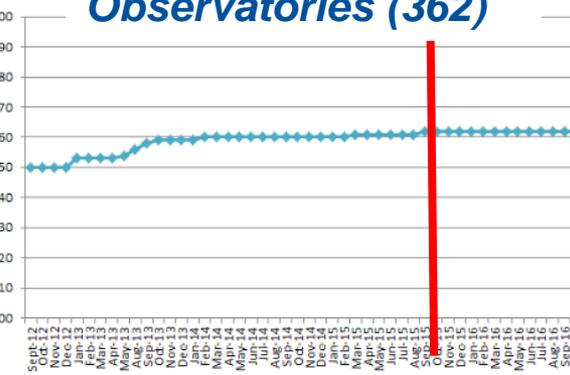
## Data sets (4 077)



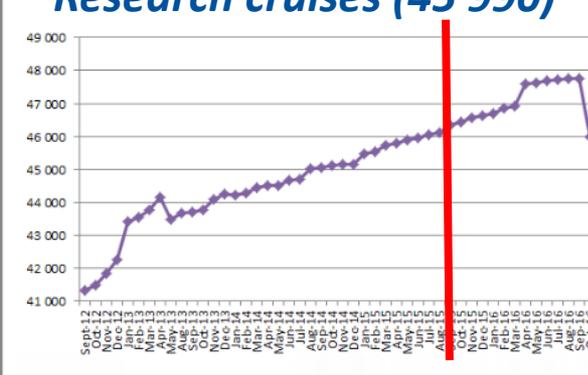
## Projects (2 975)



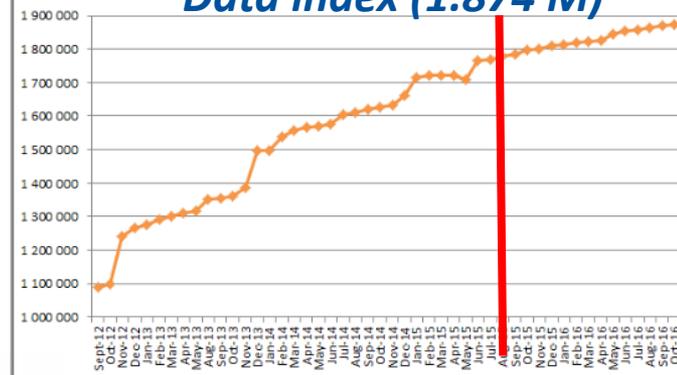
## Observatories (362)

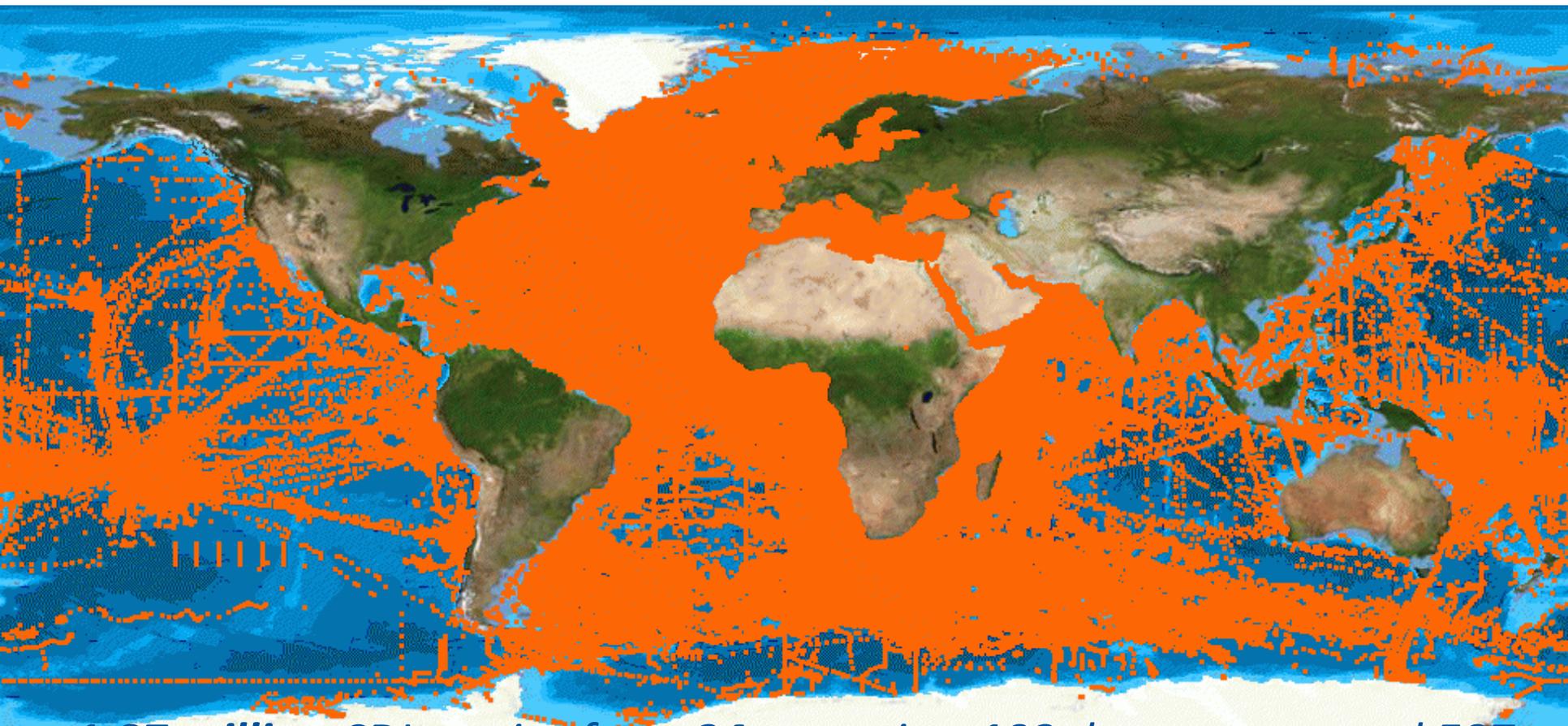


## Research cruises (45 990)



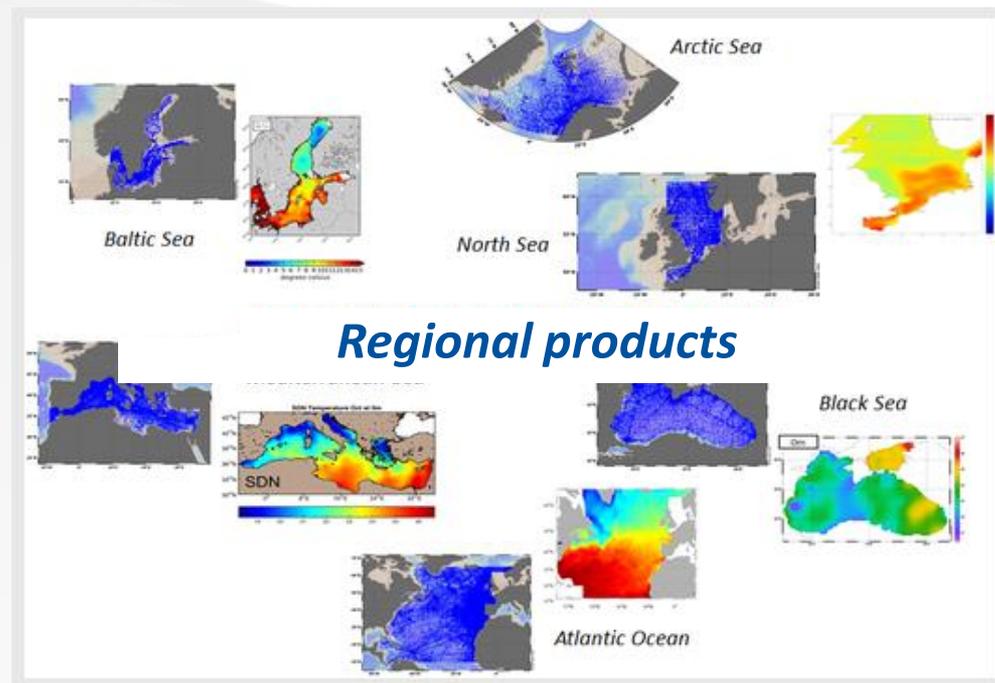
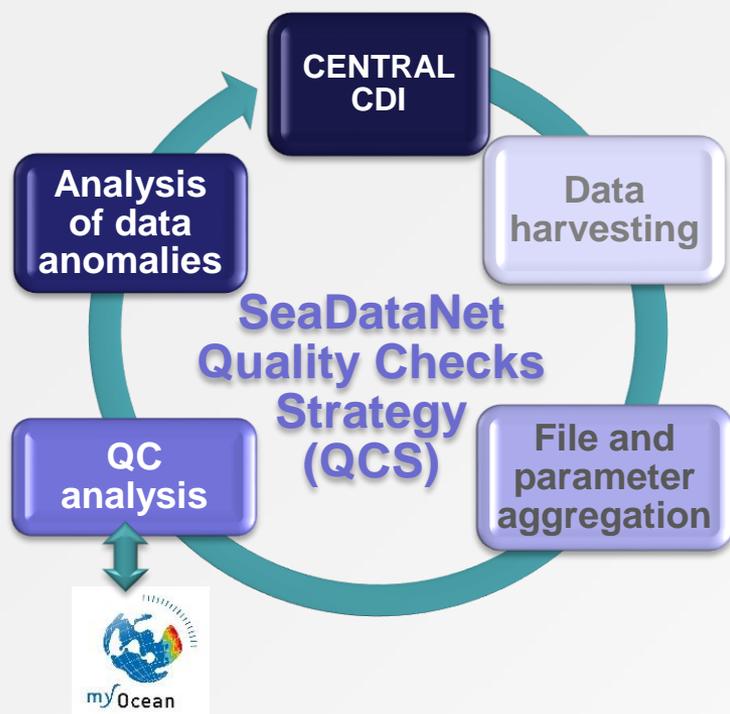
## Data index (1.874 M)





**1.87 million** CDI entries from **34** countries, **102** data centres and **597** originators for physics, chemistry, geology, geophysics, bathymetry and biology; from **1805 to 2016**; **86%** unrestricted or under SDN License

# SeaDataNet products



**Aggregated datasets and climatologies**  
*Improvement of the data quality*



# SeaDataNet

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

ID	Data set name	DC country	Start date	Short description	Parameter groups	Instrument group type
20150401_ODDCE	Germany	20150410	Chemical oxygen demand	Chemical oxygen demand	CTD	
20150401_ODDCE	Germany	20150410	Chemical oxygen demand	Chemical oxygen demand	CTD	
20150401_ODDCE	Germany	20150410	Chemical oxygen demand	Chemical oxygen demand	CTD	

**GEOSS portal**

**IODE ODP portal**

*Aggregated collection*

**Data discovery and access**

**Black Sea portal**

**Caspian portal**

*Regional subsets*

**Geo-Seas portal**



NODCs; HO; GEOs; BIOS; ICES; PANGAEA

**≈ 600 European data originators**

## CDI Data Discovery and Access service

*Thematic portals*

**EMODnet**  
European Marine Observation and Data Network

**Bathymetry**

**Physics**

**Chemistry**

**Geology**

**Biology**

## *SeaDataCloud – a new opportunity*

- Standards and information technology are always evolving, and the SeaDataNet infrastructure must stay up-to-date to maintain and further expand its services



## ***SeaDataCloud: Key figures***

- Start 1<sup>st</sup> of November 2016
- Duration 4 years
- Budget 10 M€
- 56 partners
- 5 subcontractors
- Total of 32 countries represented
- 1110.5 man/month



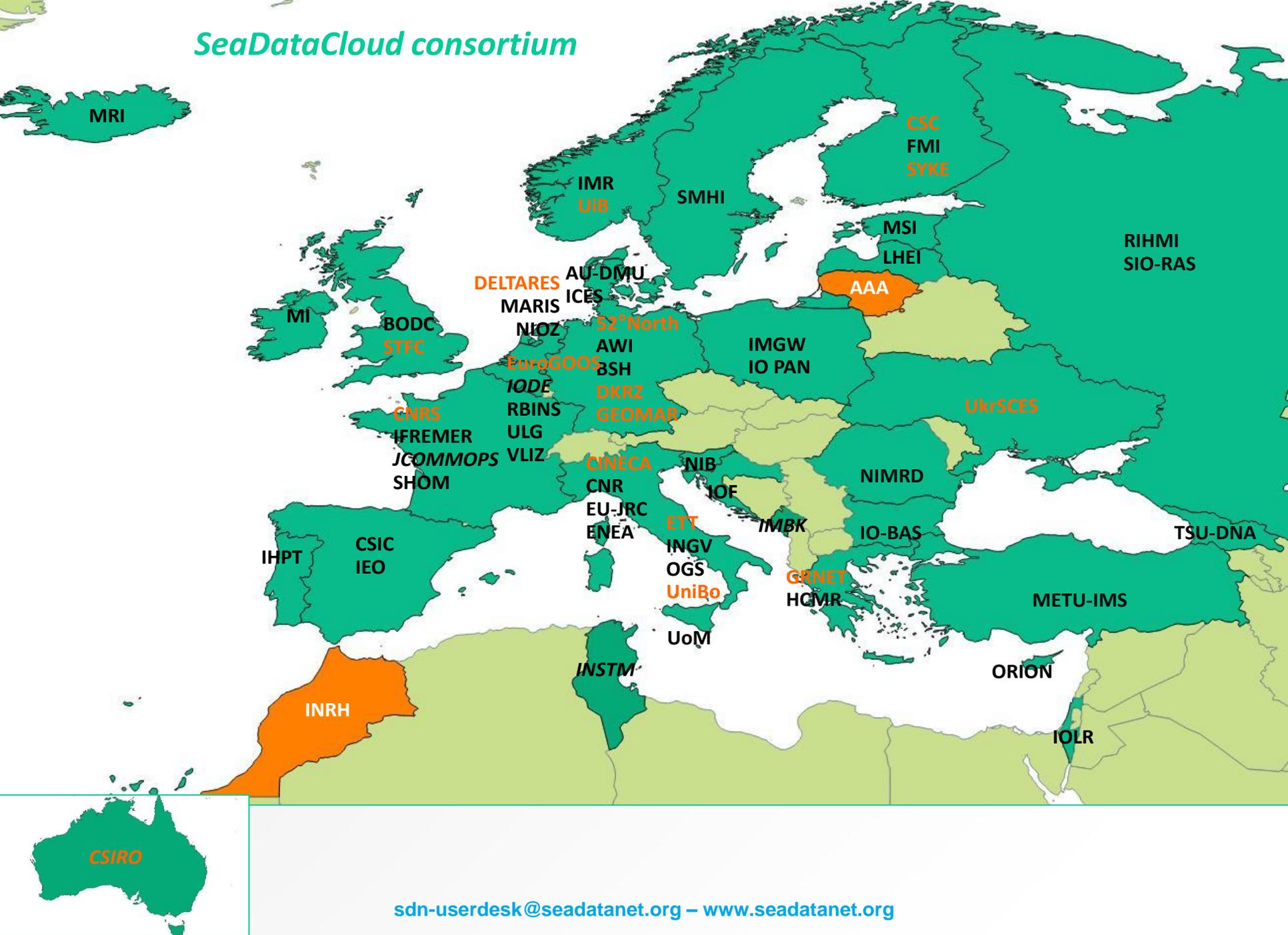
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- 56 partners from 29 countries
- 5 subcontractors from 5 countries
- Total of 32 countries



# SeaDataCloud consortium



## *SeaDataCloud partnership*

- 6 partners of SeaDataNet 2 missing  
CLS (France), UniHb (Germany), EPA (Lithuania), INRH (Morocco), MHI and IBSS (Ukraine)
- 16 newcomers
  - 5 computing centres (EUDAT)
    - CINECA (Italy)
    - CSC (Finland)
    - DKRZ (Germany)
    - GRNET (Greece)
    - STFC (United Kingdom)
  - 4 data centres / data focal points
    - CNRS (France)
    - Syke (Finland)
    - UkrSCES (Ukraine)
  - 7 organisations for specific Technical or Scientific skills
    - CSIRO (Australia)      – ETT (Italy)      – UiB (Norway)
    - 52°North (Germany)      – EuroGOOS (International)      – UniBO (Italy)
    - Deltares (Netherlands)      – GEOMAR (Germany)

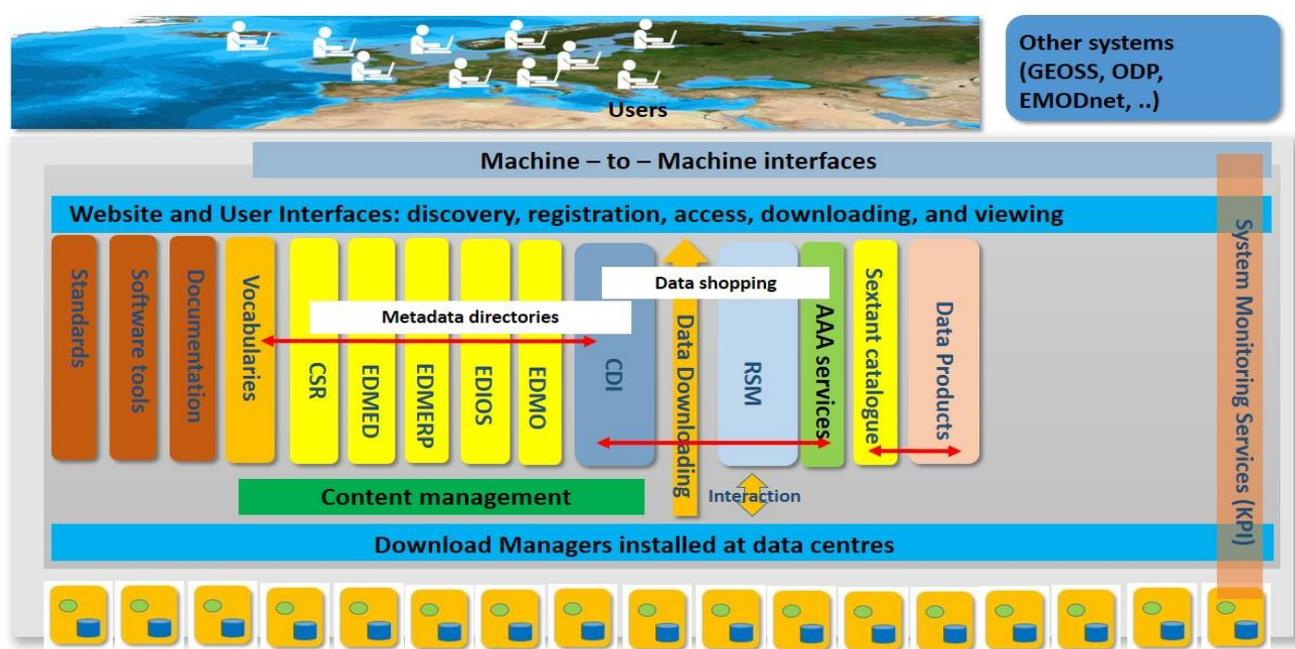
## ***SeaDataCloud – some planned activities (1)***

- **Improve services to user and data providers**
  - Utilise the benefits of a cloud environment with high performance computing to improve the performance of the CDI data access services
  - Develop online services to visualise and process data, in order to preview, subset, format, or analyse data of interest
  - Develop a Virtual Research Environment (VRE) to facilitate collaborative and individual research by users
  - Provide customized services (MySeaDataCloud services) to let users have his/her search profile, receive alerts on new available data, ingest and manage their own data sets
  - Scientific committee representing lead costumers (Copernicus CMEMS, ARGO, SOCAT, ...) will contribute to the specification and definition of tools and services

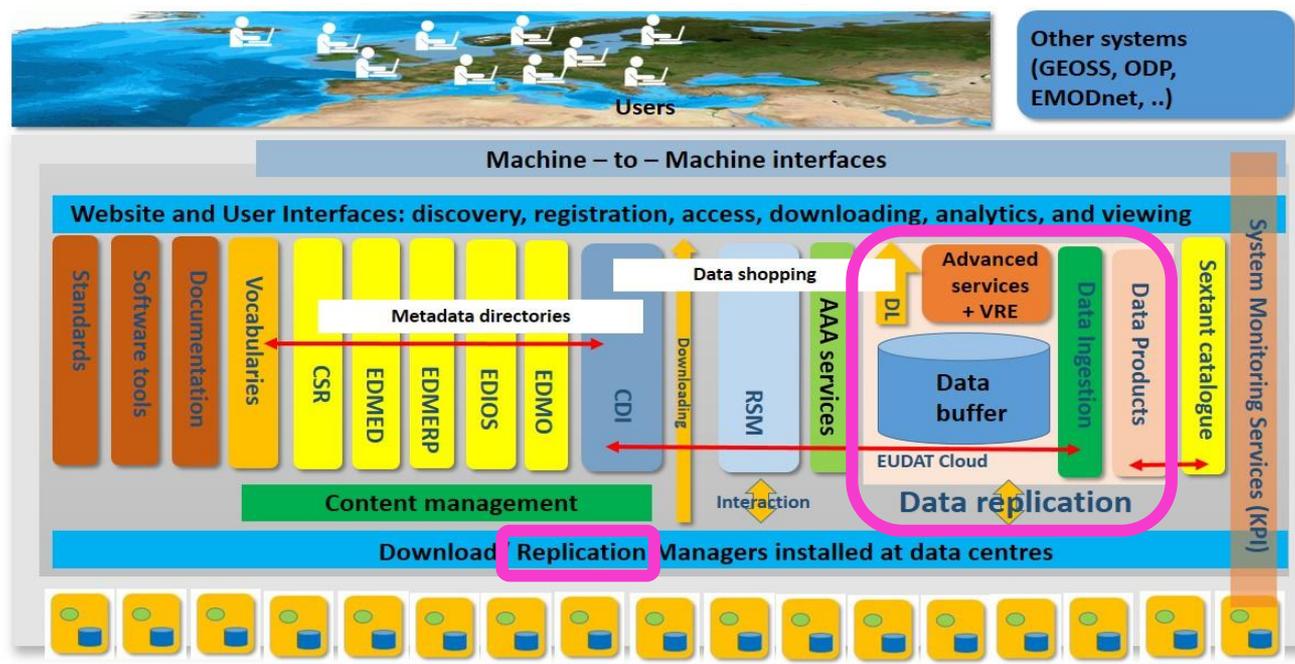
## ***SeaDataCloud – some planned activities (2)***

- Optimise connecting data centres and data streams to the infrastructure
  - Ease connecting data centres to the SeaDataNet infrastructure by revising and upgrading the existing components → Provide an integrated package for the new data centres by mean of a virtual application containing all necessary software and operating system
  - Facilitate connecting and ingesting data streams from operational observation networks using OGC Sensor Web Enablement (SWE) standards (in collaboration with ODIP Prototype 3 and other projects)
- Improve interoperability with other European and International networks

# Present SeaDataNet architecture



# Planned upgraded architecture with data replication, advance services and VRE in the cloud



Data collection by in situ sensors and remote sensing

## ***SeaDataCloud: 3 types of activities***

- H2020 :
  - Integrating Activities for Advanced Communities
  - Research and Innovation Actions (RIA)
- 3 types of activities
  - Networking activities (NA) → FP7 coordination,
  - Virtual Access (VA) → FP7 support
  - Joint research activities (JRA) → FP7 Research and Technical development (RTD)

## ***SeaDataCloud : 11 work-packages***

- WP1 : Project management (IFREMER) (22 m/m)
- Networking activities, 4 work packages (352.5 m/m)
  - WP 2: NA1- Project network coordination (IFREMER)
  - WP3: NA2 - Training of data providers (RBINS)
  - WP4: NA3 - Communication, dissemination and exploitation development (ENEA)
  - WP5: NA5 - Expansion and governance of metadata and data content (HNODC)
- Virtual access activities, 1 work package (71 m/m)
  - WP6: VA1 - Core and advanced services (OGS)

## ***SeaDataCloud : 11 work-packages***

- Joint Research Activities, 5 work-packages (665 m/m)
  - WP7: JRA1 - Tuning of requirements and overall integration (EU-JRC)
  - WP8 : JRA2 - Governance of standards and development of common services (NERC-BODC)
  - WP9 : JRA3 - Development of upstream services (MARIS)
  - WP10: JRA4 - Development of downstream services (IFREMER)
  - WP11: JRA5 – Development, update and publication of data products for European sea regions (INGV)

## ***Management : Structure***

- **Key-functions :**
  - EU project officer : Agnès Robin
  - Project coordinator (PC - IFREMER)
  - Technical coordinator (TC - MARIS)
  - Scientific coordinator (SC – EC-JRC)
  - Work-package leaders
  - Regional coordinators for products (RC)

# ***Management : Structure***

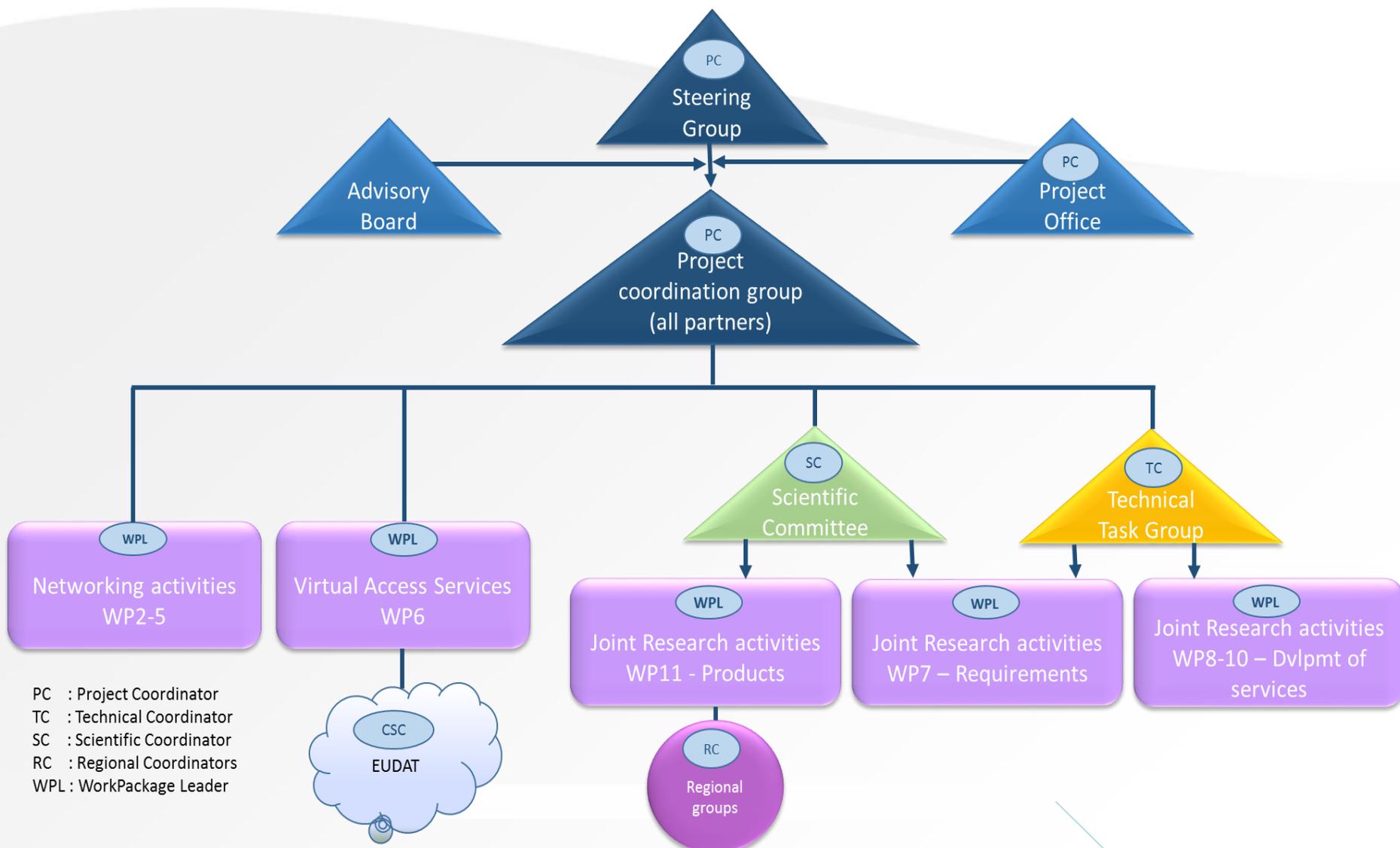
- Key-committees
  - Steering group (SG)
    - PC, TC, SC, WP leaders, RC
    - ICES (MSFD : Marine Strategy Framework Directive), VLIZ (Marine biological data management), BSH (management of CSR catalogue), CSC (representing the EUDAT consortium), ULD and AWI (development of major tools)
  - Project office (PO for supporting PC and SG)
  - Technical task group (TTG)
  - Scientific Committee (SC)
  - Advisory group (group of external experts)
  - Project coordination group of all partners and subcontractors



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## ***Management : 2 decision levels***

- Strategic level, to manage the overall strategy and financial, scientific and technical progress represented by:
  - Steering group
  - Project coordinator
  - Technical coordinator
  - Scientific coordinator
- Operational level, to implement the scientific and technical activities necessary to achieve the objectives represented by:
  - Project office
  - Work-package leaders

## ***Networking activities : foreseen meetings***

Group	Number of meetings	Comment	Number of partners involved
Coordination group	5	Kick-off + 4 annual meeting	61
Steering Group	9	Twice a year + final meeting	18
Technical Task Group	8	Twice a year	30
Scientific Committee	5	Kick-off + 4 annual meetings	7
Advisory Board	5	Kick-off + 4 annual meetings	6

## ***Coordination group meetings***

- All group:
  - Partners, subcontractors, advisory group
- Roles:
  - Discuss and tune the content and coherence of the work plan activities (WPA)
  - Monitor and evaluate the progress of the WPA
  - Stimulated collaboration, exchange of knowledge and expertise between partners

# *Steering Group meetings*

- Roles
  - Coordinate all project activities and define priorities
  - Take decisions regarding scientific and technical issues, financial issues and person power planning
  - Monitor the progress of scientific and technical activities within the Work-package
- Communication to the full group
  - Agenda of the steering committee distributed before
  - Minutes of the meeting distributed after

## ***Scientific committee meetings***

- **Roles**
  - Overall specifications of tools and services from a user perspective (feedback and monitoring of their developments)
  - Specifications of products useful for their communities
  - Promotion of SeaDataCloud services and tools
- **Communication to the full group**
  - Through the scientific coordinator at the steering group meetings and the plenary meetings

## ***Advisory board : role***

- To assist the steering committee
- To participate to each Coordination Group meeting
- To contribute, review and give advice on
  - Standards and protocols
  - Technical solutions
  - Quality of services and products
  - Training and capacity building
  - Dissemination and promotion
  - ...

## ***Advisory board : members***

- Maximum 6 members, high level experts in marine data management
  - **Margarita Gregg**, Deputy director of NOAA –NCEI (represented at this meeting by **Ken Casey**, Technical Director of US NODC) (USA)
  - **Mathieu Ouellet**, Fisheries and Oceans, Canada
  - **Phil Weaver**, Managing director of Seascope Consultants Ltd, UK
  - **Kathrine Angell-Hansen**, Director of JPI oceans secretariat (Belgium) represented at this meeting by **Anastasios Lekkas**
  - **Erik Buch**, Chair of EuroGOOS (Belgium) (excused for this meeting)
  - **Peter Pulsifer**, Chair of the international Arctic Data Committee (USA)

## ***Coordination tools: mailing lists***

1. [sd-admin@seadatanet.org](mailto:sd-admin@seadatanet.org): administrative contacts (67)
2. [sd-legal@seadatanet.org](mailto:sd-legal@seadatanet.org): legal contacts (58)
3. [sd-po@seadatanet.org](mailto:sd-po@seadatanet.org): project office (3)
4. [sd-advisoryboard@seadatanet.org](mailto:sd-advisoryboard@seadatanet.org): advisors (6)
5. [sd-partners@seadatanet.org](mailto:sd-partners@seadatanet.org): all partners (121)
6. [sd-product-lead@seadatanet.org](mailto:sd-product-lead@seadatanet.org): regional coordinators (7)
7. [sd-sciencecom@seadatanet.org](mailto:sd-sciencecom@seadatanet.org): scientific committee (8)
8. [sd-stcom@seadatanet.org](mailto:sd-stcom@seadatanet.org): steering group (26)
9. [sd-subcontractors@seadatanet.org](mailto:sd-subcontractors@seadatanet.org): all subcontractors (10)
10. [sd-tech@seadatanet.org](mailto:sd-tech@seadatanet.org): technical group (77)
11. [sd-all@seadatanet.org](mailto:sd-all@seadatanet.org) : 4+5+6+7+8+9+10 (168)
12. [sdn-userdesk@seadatanet.org](mailto:sdn-userdesk@seadatanet.org): Helpdesk managed by IFREMER

## ***Coordination tools***

- Extranet for the project
  - Same tool than for SeaDataNet 2 : **ALFRESCO**
  - Available from the web site through the key icon
  - 2 directories:
    - SeaDataNet 2, **SeaDataCloud**
  - Start content
    - Documents of the proposal
  - Folders for Deliverables, Steering Group, TTG, Scientific committee ..... On demand also
  - Restricted access can be managed

Site SeaDataNet

Plus ▾

Tableau de bord du site

Espace documentaire

Membres

▼ Documents

- Tous les documents
- Verrouillés par moi
- Verrouillés par d'autres
- Récemment modifié
- Récemment ajouté
- Mes favoris
- Mon Panier

▼ Fichiers

- Documents
  - SeaDataCloud
    - Deliverables
    - H2020-INFRAIA F
    - Scientific Commi
    - Steering Group
    - Technical Task G
  - SeaDataNet II

▼ Tags

agenda (1)

▼ Catégories

Documents

Créer un contenu...

Nouveau dossier

Ajouter un fichier

Éléments sélectionnés...

Cacher le fil d'Ariane

Flux RSS

Plus haut

Documents

Sélectionner ▾

1 - 2 sur 2 << 1 >>

Trier par : Nom ▾

Cacher les dossiers



★ SeaDataCloud

Modifié : Mar 22 Nov 2016 09:06:37

Modifié par : Vanessa TOSELLO

Description : (Aucun)

Tags : (Aucun)



★ SeaDataNet II

Modifié : Mar 22 Nov 2016 09:03:47

Modifié par : Thibaut DUTRION

Description : (Aucun)

Tags : (Aucun)

1 - 2 sur 2 << 1 >>



# SeaDataNet

Alfresco Share

Mon tableau de bord Sites Personnes Plus ...

Déconnexion Michele FICHAUT Aide

Saisir des termes de recherche...

Site SeaDataNet Plus

Tableau de bord du site Espace documentaire Membres

Documents

Tous les documents

Verrouillés par moi

Verrouillés par d'autres

Récemment modifié

Récemment ajouté

Mes favoris

Mon Panier

Fichiers

Documents

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Contracts

Deliverables

Proposal

Scientific Commi

Steering Group

Technical Task G

SeaDataNet II

Tags

agenda (1)

Catégories

Documents

Créer un contenu... Nouveau dossier Ajouter un fichier Éléments sélectionnés... Cacher le fil d'Ariane Flux RSS

Plus haut Documents > SeaDataCloud

Sélectionner 1 - 6 sur 6 << 1 >> Trier par : Nom Cacher les dossiers

<input type="checkbox"/>		★ <a href="#">Contracts</a>	Modifié : Jeu 24 Nov 2016 09:44:19	Modifié par : <a href="#">Vanessa TOSELLO</a>
		Description : (Aucun)		
		Tags : (Aucun)		
<input type="checkbox"/>		★ <a href="#">Deliverables</a>	Modifié : Mar 22 Nov 2016 09:06:01	Modifié par : <a href="#">Vanessa TOSELLO</a>
		Description : (Aucun)		
		Tags : (Aucun)		
<input type="checkbox"/>		★ <a href="#">Proposal</a>	Modifié : Jeu 24 Nov 2016 09:41:30	Modifié par : <a href="#">Vanessa TOSELLO</a>
		Description : (Aucun)		
		Tags : (Aucun)		
<input type="checkbox"/>		★ <a href="#">Scientific Committee</a>	Modifié : Mar 22 Nov 2016 09:06:36	Modifié par : <a href="#">Vanessa TOSELLO</a>
		Description : (Aucun)		
		Tags : (Aucun)		
<input type="checkbox"/>		★ <a href="#">Steering Group</a>	Modifié : Mar 22 Nov 2016 09:06:11	Modifié par : <a href="#">Vanessa TOSELLO</a>
		Description : (Aucun)		
		Tags : (Aucun)		
<input type="checkbox"/>		★ <a href="#">Technical Task Group</a>	Modifié : Mar 22 Nov 2016 09:06:28	Modifié par : <a href="#">Vanessa TOSELLO</a>
		Description : (Aucun)		
		Tags : (Aucun)		

## ***Access to Alfresco share***

- Former SeaDataNet partners
  - Use the same login/password than for SeaDataNet 2
- Newcomers
  - → IFREMER has created extranet login to all members of the mailing lists (except sdc-legal, sdc-admin)
  - → If still some access missing: email to be sent to [sdn-userdesk@seadatanet.org](mailto:sdn-userdesk@seadatanet.org)

## ***Roles in Alfresco share***

- Administrator = IFREMER, MARIS
  - Creation and management of the extranet : user registration, definition of user rights, etc.
  - All rights on all documents
- Collaborators (Working Group on their own folders)
  - Example: Scientific committee on Scientific committee folder
  - Management of documents
    - Creation and modification of any documents
    - Suppression and move of their own documents
- Consumers (sdc-all)
  - Read and download the documents

## ***Coordination tools : Web site***

- [www.seadatanet.org](http://www.seadatanet.org)
- New design in preparation (relooking of web site and logo)
  - Flat design, Responsive (smartphones, tablets , computers)
  - Content
    - Recovery from SeaDataNet 2
      - Metadata, Data access, Standard and software, Products, Events, publications
    - New Tab “About us”
      - H2020 - SeaDataCloud (content to be created)
      - History (by project: description, partnership, status of SDN infrastructure at the end...)
        - FP7-SeaDataNet 2
        - FP6- SeaDataNet

## ***Reporting to EC : planning***

- 3 reports during the project:
  - From 01/11/2016 to 31/04/2018 – 18 months
  - From 01/05/2018 to 31/10/2019 - 18 months
  - From 01/11/2019 to 31/10/2020 – 12 months

## Contract status

- Grant agreement
  - Delayed because of one partner declaration of honour signature possible only last week (administrative delays and informatics problems)
  - Signed by IFREMER on **Nov. 23<sup>rd</sup>**
  - To be signed by EU (2 weeks delay)
  - Dead line Nov. 26<sup>th</sup> → extension requested for 2 more weeks (Dec., 10<sup>th</sup>)
- Consortium agreement
  - Prepared by IFREMER juridical department
  - Version 0 sent to all partners on Nov. 18<sup>th</sup>, 2016
    - Dead line for feedback Nov. 30<sup>th</sup> 2016
  - Final version to be sent to all partner's legal department for signature of hard copies
    - hard copies sent back to IFREMER (Sonia Hamiti, Paris)
    - IFREMER will send back a version to each partner
  - Deliverable deadline on M3 (21/01/2017)

## ***Sub-contract status***

- 5 sub-contracts to be prepared
  - IFREMER – INSTM
  - IFREMER – IODE
  - IFREMER – JCOMMOPS
  - MARIS – CSIRO
  - OGS – IMBK
- Start from sub-contracts of SeaDataNet 2 plus technical annex to describe the expected work in SeaDataCloud
  - IFREMER will provide a model to MARIS and >OGS

## 1<sup>st</sup> Payment – Pre-financing

- The pre-financing will be transferred to IFREMER within 2 weeks after signature of GA by EC → December 24<sup>th</sup> !!!



- Then IFREMER will proceed to the payment of all partners → payment expected **January 2017**

# 1<sup>st</sup> Payment – Pre-financing

Grant Management Grant Agreement Data nfishami (EXTERNAL) gofund

730960 (SeaDataCloud) RIA THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION HORIZON 2020  
Call: H2020-INFRAIA-2016-2017  
Topic: INFRAIA-01-2016-2017 Unit: RTD/B/04

Project Summary Beneficiaries General Information Reporting Periods GA Information GA Options Financial Information LF Overview Infrastructur Work Packages Deliverables Milestones

DOCUMENTS

### Financial Information

*i* This screen is only editable by EU Officers

	Amount	Percentage		
Prefinancing	5,333,193.33 €	53.33 %	of 9,999,737.50 €	Default
Guarantee Fund	499,986.88 €	5.00 %	of 9,999,737.50 €	Default

Actual amount of the pre-financing to be paid to the bank account specified in the agreement 4,754,513.75 €  
Actual amount of the prefinancing paid to JRC 78,692.70 €

Amount = 5,133,199.33 Euros → 53.33% of total amount  
Guarantee Fund = 499,986.66 Euros → 5% of total amount



PAN-EUROPEAN INFRASTRUCTURE  
FOR OCEAN & MARINE DATA  
MANAGEMENT

*SDC Kick-off meeting, Riga, Nov. 30 – Dec. 1, 2016*

# Thank you for your attention

## Any questions?