Meeting agenda
Day 1, November 30\textsuperscript{rd}, 2016

\begin{itemize}
  \item \textbf{Morning: general issues}
    \begin{itemize}
      \item Project overview, Management and Network organisation (IFREMER)
      \item Technical challenges (MARIS)
      \item EUDAT services and partners (EUDAT – CSC)
    \end{itemize}
  \item \textbf{Afternoon}
    \begin{itemize}
      \item 10 new members of the consortium: Presentation of their activities and the link with and role in SeaDataCloud
        \begin{itemize}
          \item Deltares (Netherland), SYKE (Finland), UkrSCES (Ukraine), ETT (Italy), EuroGOOS (international), GEOMAR (Germany), 52°North (Germany), CNRS (France), UniBo (Italy)
        \end{itemize}
    \end{itemize}
\end{itemize}
Day 2, December 1st, 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
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 1st 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
Portal with standards, tools, and services, both for users and data centres
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 License

- **Capacity building** by training workshops for uptake of standards and tools by the data centres in order to achieve standardisation
SeaDataNet metadata directories (1)
CDI service for discovery and unified data access

European data sources

data centres ≈ 600 originators

Already 102 data centres connected and more underway

Search and Shop

Metadata
+ transaction data
SeaDataNet metadata directories (2)

Organisations (3758)  
Data sets (4 077)  
Projects (2 975)  

End of SDN2 project

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

Analysis of data anomalies
QC analysis
SeaDataNet Quality Checks Strategy (QCS)
CENTRAL CDI
Data harvesting
File and parameter aggregation

Regional products

Aggregated datasets and climatologies

Improveement of the data quality

sdn-userdesk@seadatanet.org – www.seadatanet.org
SeaDataNet

Data discovery and access

NODCs; HOs; GEOs; BIOs; ICES; PANGAEA

> 100 data centres

CDI Data Discovery and Access service

Approximately 600 European data originators

GEOSS portal

IODE ODP portal

Aggregated collection

Black Sea portal

Caspian portal

Regional subsets

Thematic portals

Bathymetry

Physics

Chemistry

Geology

Biology

EMODnet

European Marine Observation and Data Network

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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 1st of November 2016
- Duration 4 years
- Budget 10 M€
- 56 partners
- 5 subcontractors
- Total of 32 countries represented
- 1110.5 man/month
- 56 partners from 29 countries
- 5 subcontractors from 5 countries
- Total of 32 countries
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)
    - 52°North (Germany)
    - Deltares (Netherlands)
    - ETT (Italy)
    - EuroGOOS (International)
    - GEOMAR (Germany)
    - UiB (Norway)
    - UniBO (Italy)
**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 custumers (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
**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
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

<table>
<thead>
<tr>
<th>Group</th>
<th>Number of meetings</th>
<th>Comment</th>
<th>Number of partners involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordination group</td>
<td>5</td>
<td>Kick-off + 4 annual meeting</td>
<td>61</td>
</tr>
<tr>
<td>Steering Group</td>
<td>9</td>
<td>Twice a year + final meeting</td>
<td>18</td>
</tr>
<tr>
<td>Technical Task Group</td>
<td>8</td>
<td>Twice a year</td>
<td>30</td>
</tr>
<tr>
<td>Scientific Committee</td>
<td>5</td>
<td>Kick-off + 4 annual meetings</td>
<td>7</td>
</tr>
<tr>
<td>Advisory Board</td>
<td>5</td>
<td>Kick-off + 4 annual meetings</td>
<td>6</td>
</tr>
</tbody>
</table>
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 Seascape 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. sdc-admin@seadatanet.org: administrative contacts (67)
2. sdc-legal@seadatanet.org: legal contacts (58)
3. sdc-po@seadatanet.org: project office (3)
4. sdc-advisoryboard@seadatanet.org: advisors (6)
5. sdc-partners@seadatanet.org: all partners (121)
6. sdc-product-lead@seadatanet.org: regional coordinators (7)
7. sdc-sciencecom@seadatanet.org: scientific committee (8)
8. sdc-stcom@seadatanet.org: steering group (26)
9. sdc-subcontractors@seadatanet.org: all subcontractors (10)
10. sdc-tech@seadatanet.org: technical group (77)
11. sdc-all@seadatanet.org: 4+5+6+7+8+9+10 (168)
12. 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
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
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
- 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**
  - To be signed by EU (2 weeks delay)
  - Dead line Nov. 26th ➔ extension requested for 2 more weeks (Dec., 10th)

- **Consortium agreement**
  - Prepared by IFREMER juridical department
  - Version 0 sent to all partners on Nov. 18th, 2016
    - Dead line for feedback Nov. 30th 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
1st Payment – Pre-financing

• The pre-financing will be transferred to IFREMER within 2 weeks after signature of GA by EC ➔ December 24th !!!

• Then IFREMER will proceed to the payment of all partners ➔ payment expected January 2017
1st Payment – Pre-financing

Amount = 5,133,199.33 Euros ➪ 53.33% of total amount
Guarantee Fund = 499,986.66 Euros ➪ 5% of total amount
Thank you for your attention

Any questions?