



Kick-off meeting 28/11/2016 - 01/12/2016 Riga, Latvia



SeaDataNet

PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

WP6 - Core and advanced services - State of the art

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Plenary meeting – Riga – November, 2016

WP6 - Core and advanced services-

The main task is **to keep the core and advanced services of the SeaDataNet infrastructure operational** including:

- **infrastructure maintenance** (e.g. network, operating system, databases, software, services, ...)
- **metadata safeguarding**
- **support to users and data providers** (e.g. helpdesk open in working hours)
- **monitoring of all services**, this will be documented by **regular monitoring reports**, giving KPI about:
 - operational **availability of data centre sites, portal, and range** of services
 - **replication** process between data centres and central cloud centres
 - **well-functioning** of the data shopping process
 - **statistics of use** of metadata services
 - **number of data request** transactions
 - **statistics of use** of advanced services
 - **number of users** of all services



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The SeaDataNet infrastructure currently connects national nodes and **more than 100 individual marine and oceanographic data centres from 34 countries. All of them contribute to the Core Services** provided by SeaDataNet infrastructure.

These core services are centrally hosted and operated by six SeaDataNet members:

- **NERC-BODC**, Liverpool, United Kingdom
- **BSH**, Hamburg, Germany
- **IFREMER**, Plouzané, France
- **MARIS**, Voorburg, The Netherlands
- **HCMR**, Athens, Greece
- **OGS**, Trieste, Italy



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As part of the SeaDataCloud project existing **core services will be upgraded**, and **new advanced services will be developed** cooperation with the **EUDAT consortium**.

EUDAT has selected the following members to participate in the SeaDataCloud consortium **for providing advanced computer services** such as **cloud** and **HPC services**:

- **CINECA**, Casalecchio di Reno BO, Italy
- **DKRZ** Hamburg, Germany
- **CSC**, Helsinki, Finland
- **GRNET**, Athens, Greece
- **STFC**, Rutherford, UK



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Services currently offered by the SeaDataNet infrastructure:

- **Central portal** (by IFREMER)
- **EDMED** service (by NERC-BODC)
- **EDMERP** service (by MARIS)
- **EDMO** service (by MARIS)
- **CSR** service (by BSH)
- **EDIOS** service (by NERC-BODC and MARIS)
- **CDI** service (by MARIS and IFREMER)
- **Product catalogue** service (by IFREMER)
- **Vocabulary** service (by NERC-BODC)
- **Monitoring** service (by HCMR, OGS)
- **Authentication and Authorisation Service** (by IFREMER)
- **Help Desk** service (by IFREMER)



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New services to be offered by the SeaDataNet infrastructure:

- **All directories** will be expanded with **SPARQL endpoints** to support the Linked Data concept,
- **The CDI service will be equipped with a central cloud and replication process** which will make the CDI services faster and more efficient to users, and will also improve the capability for maintaining the overall consistency of metadata and data,
- **The monitoring services will be upgraded** in a cooperation of GRNET and HCMR by **adopting and adapting the ARGO monitoring framework** that is used for monitoring the EUDAT infrastructure.
- ...



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Deliverables

- D6.1: **Monitoring Plan** with indicators and measurement protocols, M3 - OGS
- D6.2: First **annual metrics analysis report**, M14 - HCMR
- D6.3: Second **annual metrics analysis report**, M26 - HCMR
- D6.4: Third **annual metrics analysis report**, M38 - HCMR
- D6.5: Fourth **annual metrics analysis report**, M50 - HCMR
- D6.6: Descriptive **report of Help Desk activity** and support to users, M45 - IFREMER



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Thanks, questions?