WP6 - Core and advanced services - State of the art

M. Vinci, A. Giorgetti, M. Eliezer, E. Partescano; OGS Trieste Italy
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
WP6 - Core and advanced services-

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
WP6 - Core and advanced services-

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
WP6 - Core and advanced services-

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)
WP6 - Core and advanced services-

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.
- ...
WP6 - Core and advanced services

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
Thanks, questions?