

OBSERVING THE OCEAN TO SAVE THE EARTH

EMSO ERIC Data Services

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EMSO ERIC was constituted on September 29, 2016 (EU Official Journal L268/59 October 1st, 2016)

1 CENTRAL HUB AND 11 INTERLINKED FIXED POINT MUTI-SENSORS PLATFORMS

EXCELLENCES

Delivering standardised: services, data process, scientific results.

High level of **INTEGRATION** among 11 multisensor platforms and 17 European institutions **Common access policy** and a single point of access for all users

User programme designed to absorb capacity of the RI

ADDED VALUE compared to the value of a single research cooperation network

JOINT INVESTMENT STRATEGY to

strengthening EMSO ERIC through its regional facilities/test sites and common and shared services

EMSO ERIC

DISTRIBUTED RESEARCH INFRASTRUCTURE



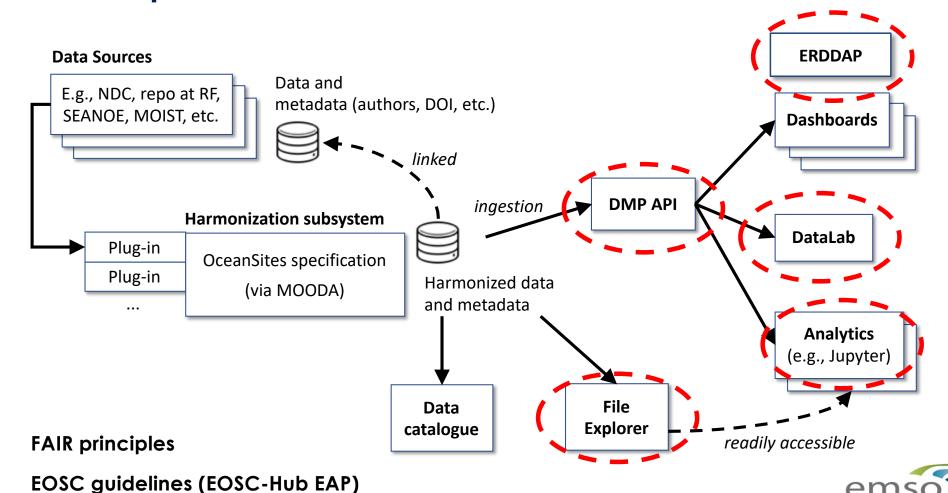
MISSION



To establish a comprehensive and smart sensor system in water column, seafloor, and subseafloor environments as part of the integrated and sustainable organization EMSO ERIC



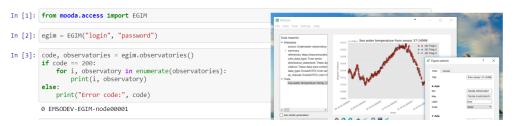
Baseline Implementation of EMSO ERIC Data Services



Harmonization and Cyberinfrastructure Deployment

MOODA (Module of Ocean Observatory Data Analysis)





MOODA as a library or with the Graphical User Interface (GUI)

EOSC-Hub Early Adopter Programme

- EGI Cloud Compute service (Openstack services at CESGA and RECAS-BARI)
- EGI Online Storage
- Technical plan (targeting registration in the EOSC Portal Marketplace)

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Work Plan Status

Quarter (2020)	Work Planned	Status and notes
Q1	 Identify the adequate capacity for implementing the project. Engage with the EOSC providers interested to support the project activities. Scale-up the compute and storage resources to move the DMP to preproduction. The platform will be replicated in two cloud providers for redundancy. 	 Defined resource requirements and basic services. Obtained resources from RECAS-BARI and CESGA Deployed core data services at RECAS-BARI Migration of services from OpenNebula to OpenStack Short training-oriented session on data services delivered using EGI resources at EMSO Conference (Athens, Feb 12)
Q2	 Enable/integrate federated identity management in the EMSO-ERIC Data Management Platform using one of the available AAI solutions provided by EOSC-hub. Perform initial scalability tests of the EMSO-ERIC DMP in EOSC. 	 Prioritized data services: ERDDAP deployment Prioritized data services: DataLab Prioritized capabilities: Engagement with DOI provider Ongoing deployment of mirrored/distributed services in CESGA
Q3	 Enabling the EOSC-hub monitoring in the DMP. Enabling the EOSC-hub accounting in the DMP. Increase the scale of the tests of the platform in EOSC. 	
Q4	 Agreed OLAs with the EOSC providers. Registration of the EMSO-ERIC Data Management Platform in the EOSC Portal. 	



EMSO ERIC Data Services @EGI (RECAS-BARI)

Production (<u>I</u> nternal/ <u>E</u> xternal Access)	Testing/Staging (Internal/External Access)	Development (<u>I</u> nternal/ <u>E</u> xternal Access)
DMP Back-end (E)	DMP Back-end Test (I)	DMP Back-end Dev (I)
Data Portal Front-End (E)	Data Portal Front-End Test (I)	Data Poral Front-End Dev (I)
EMSO ERIC API (E)	EMSO ERIC API Test (I)	
DataLab (E)	DataLab Test (E)	DataLab Dev (I)
Virtual Research Environment – VRE (E)	Training VRE (E) — on demand only	
	EMSO ERIC ERDDAP Test (E)	
ERDDAP-OBSEA (E)		
GitLab (E)		

Publicly accessible services (Q1 2020):

- 100% uptime
- No incidents



Current/Next Steps

- Enable/integrate federated identity management in the EMSO-ERIC Data Management Platform using one of the available AAI solutions provided by EOSC-hub.
- Integrate DOI support in the DMP.







Thank you for your attention

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