

Agenda Item	Preparatory document for DAY 3 on 13 March 2025
Purpose	This cover document introduces the above referred session of the EMSO strategic workshop with a summary of the EMSO achievements so far, the strategic options the EMSO community shall think about and the questions asked to the EMSO community.
Reference documents if any, (can be in annex, URL or else)	<p>PREPARATORY SLIDES for Morning round table  <a href="https://docs.google.com/presentation/d/1bax4M9RfSp4zlENalReAloqI3iSAbQk2/edit?usp=share_link&amp;oid=112717279651159300168&amp;rt_pof=true&amp;sd=true">https://docs.google.com/presentation/d/1bax4M9RfSp4zlENalReAloqI3iSAbQk2/edit?usp=share_link&amp;oid=112717279651159300168&amp;rt_pof=true&amp;sd=true</a></p> <p>PREPARATORY SLIDES for Afternoon round table  <a href="https://docs.google.com/presentation/d/1tyv1d-8II54PDfT9TAfBlz8r2wz-YjF/edit?usp=share_link&amp;oid=112717279651159300168&amp;rt_pof=true&amp;sd=true">https://docs.google.com/presentation/d/1tyv1d-8II54PDfT9TAfBlz8r2wz-YjF/edit?usp=share_link&amp;oid=112717279651159300168&amp;rt_pof=true&amp;sd=true</a></p>
Expected outcomes	<ol style="list-style-type: none"> <li>1. Raise awareness on:             <ol style="list-style-type: none"> <li>a. on-going EMSO services</li> <li>b. how other RIs services are implemented</li> <li>c. different structures for services governance</li> </ol> </li> <li>2. Collect feedback on 2 EMSO services related to communication</li> <li>3. Proposals on:             <ol style="list-style-type: none"> <li>a. new EMSO services/ improvements of the current EMSO services</li> <li>b. joint services/research activities with other RIs</li> <li>c. EMSO services operational governance</li> </ol> </li> </ol>
Version date and lead person.	03/03/2025

## Background Considerations

- EMSO Observational service: the fundamental primary service of EMSO

The main initial challenge to address the EMSO key scientific questions, as an infrastructure distributed over eleven deep regional sites plus three shallow water test sites, stands firstly in the sustainability of the operation at all sites, under the umbrella of a community vision, i.e. with a common scientific and technological strategy. Indeed, because of the quantity and of the diversity in the 125 parameters acquired in our hostile (because deep, high pressure and corrosive) marine environment, the implementation phase of EMSO ERIC had to firstly address the pre-existing heterogeneity of the scientific and sampling strategy and of the consequent unharmonised operating of the measuring systems. This constitutes the basement of EMSO ERIC: the operation of measurement systems and platforms under the leadership of the associated indispensable scientific and technological expertise.

Because of these considerations, we can define the fundamental Primary service of EMSO, or the so-called fundamental Upstream Service of EMSO: the Observational Service.

- Upstream and downstream services

It is used to consider the Upstream services are the independent ones from which the secondary ones are dependent. Upstream services are necessary to develop and operate Downstream Services addressing the stakeholders' benefits.

## Summary of key achievements

So far we can consider EMSO developed several upstream services:

- the Federated Observational Service for Data Generation with the 14 regional facilities
- the Support and expertise service
- the Service for fundraising and project management

The Upstream Services enable the Downstream Services that are accessible to the user community:

- the Physical Access Service: offering access to the hardware part of EMSO for any user
- the Service for the federation of harmonised Data flows to funnel the data from the various observatories towards the EU data aggregators (EMODNET, CMEMS, Blue Cloud)
- the Data access service, to discover and retrieve the data
- the Service for Data Storage and computational resources
- the EMSO Academy: a service for capacity building and training (will be presented as illustrative example)
- and the Public Engagement and Outreach Service (will be presented as illustrative example).

The EMSO services, Upstream and Downstream Services, are not all necessarily running with the same readiness level of operations as some of them are more recent. Efforts are to be sustained and further developed to reach a full operational level of all these services.

Moreover, in the medium term, EMSO ERIC should develop thematic services organised in Thematic centres, aligned with the needs associated with the EMSO scientific strategy, EU priorities and institutional scientific priorities, to deliver thematic oriented products.

### **Organisation of the sessions during Day 3**

**In the morning**, the EMSO community will not only be updated about the current EMSO services status (achievements and challenges) but also will have the chance to voice their needs and reflect upon the best solutions. The current EMSO services will be presented and opened for suggestions and integrations. It will be illustrated with the EMSO Communication service and the EMSO Academy. Then, the discussion on services will benefit from the exchange of best practices with other Research infrastructures. Indeed, representatives of other ERICs or RIs will bring their experience in services provision and will have the opportunity to reflect on and propose joint research activities and services while representatives from EMSO Service Groups will have the chance to propose new EMSO services as well as improvements for the on-going services.

#### Expected outcome of the morning session:

- awareness of the EMSO potential in terms of service provision
- constructive feedback on the potential upgrade of current services and on future services, of which those that could be shared with other ERICs and RI.

**In the afternoon**, the EMSO community will debate on the EMSO operational structure and on potential thematic oriented services, with a focus on how to improve the efficiency of the operations' governance. Other ERICs will contribute to the discussion, bringing their examples and highlighting the challenges and successes faced in their research infrastructures.

#### Expected outcome of the afternoon session:

- priority needed services on scientific thematic
- recommendations on key collaborations with other ERICs and RIs to co design future ERICs joint services
- awareness on the role to be played by national nodes in the operational structuration.

## Points of attentions and asked questions to the attendees

### 1) To reach the expected outcome of the morning session:

- awareness of the EMSO potential in terms of service provision
- constructive feedback on the potential upgrade of current services and on future services, of which those that could be shared with other ERICs and RI.

### For EMSO CURRENT SERVICES.

→ DISCUSSION:

TO THE AUDIENCE:

- Do you have suggestions and feedback related to the services presented?

### EMSO CURRENT SERVICES cont'. Sara Pero (EMSO ERIC)

→ SURVEY (mentimeter) .

TO THE AUDIENCE:

- Acknowledgements and citations: How much do you agree with the solutions proposed?
- Programme/topics of webinars: Do you have any topic to suggest for the first training programme?
- Programme/topics of webinars: Do you have any topic to suggest for the next webinar programme?
- Staff exchange: Are you interested in Staff exchange *activities*?

### FUTURE OPERATIONAL SERVICES ROUND TABLE MORNING

*After the VIDEOS: EURO-ARGO, EMBRC, EPOS, ICOS, SIOS*

*VITO VITALE CHAIR→manage the round table*

- Strengths and weaknesses of other Research Infrastructures' services (e.g. difficulties met to implement the services, how did you tackle them?) → TO: N.Pade, Y.H. De Roeck, H. Lihavainen, D.Bailo*
- How do you anticipate the evolution of your services in the future, to monitor their impacts and use → TO: N.Pade, Y.H. De Roeck, H. Lihavainen, D.Bailo*
- PROPOSALS for Improvements of the current EMSO services (based on the services presented) & PROPOSALS FOR New services → TO: A.Martins,, E.Martinez, D.Lefevre*
- PROPOSALS FOR Joint services/research activities → TO: N.Pade, Y.H. De Roeck, H. Lihavainen, D.Bailo+ A.Martins, F.Donnelly, E.martinez, D.Lefevre*

2) to reach the expected outcome of the afternoon session:

- priority needed services on scientific thematic
- recommendations on key collaborations with other ERICs and RIs to co design future ERICs joint services
- awareness on the role to be played by national nodes in the operational structuration.

SERVICES OPERATIONAL STRUCTURE ROUND TABLE AFTERNOON

*JEAN-MARIE FLAUD* → manage the round table

- 1) *How the governance of the centre/Consortium is organized?* It would be useful to understand if the Center/Consortium has a legal entity, who are the members, how the decisions are taken and how the activities are financed → TO: A.Basset, S. Lorito
- 2) *What are the relations between the centres and distributed facilities/national nodes in Lifewatch and EPOS?* → TO: A.Basset, S. Lorito
- 3) *How could EMSO shape its own services operational structure?* → TO: I.Puillat

Role and Organisation of national nodes

*Miguel Miranda* → chairs the session

1) *I. Puillat to present the role of National nodes in the current EMSO operational organisation . Comparison with other ERICs*

2) *Discussion on the current strengths and weaknesses of this current organisation and on the need to take benefit of the existing assets in national nodes to address the future operational challenges, to build on the existing and have a better synergy.*