

European Multidisciplinary Seafloor and water column Observatory
European Research Infrastructure Consortium

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EMSO ERIC in a Nutshell

EMSO Mission

As a European marine research infrastructure, EMSO ERIC aims at the advance in the knowledge of deep ocean and water column processes in key oceanic regions in the context of global change.

The operational scope of EMSO is the provision of services, for both the long-term repeated observations and analysis of Essential Ocean Variables, as well as other physical and environmental variables retrieved by deep-sea observatories.

An established European Research Infrastructure Consortium (ERIC)

A legal entity under the ERIC legislation

Since 2016, by Commission Implementing Decision (EU) 2016/1757 of 29th September 2016 (Official Journal of the European Journal, L268).



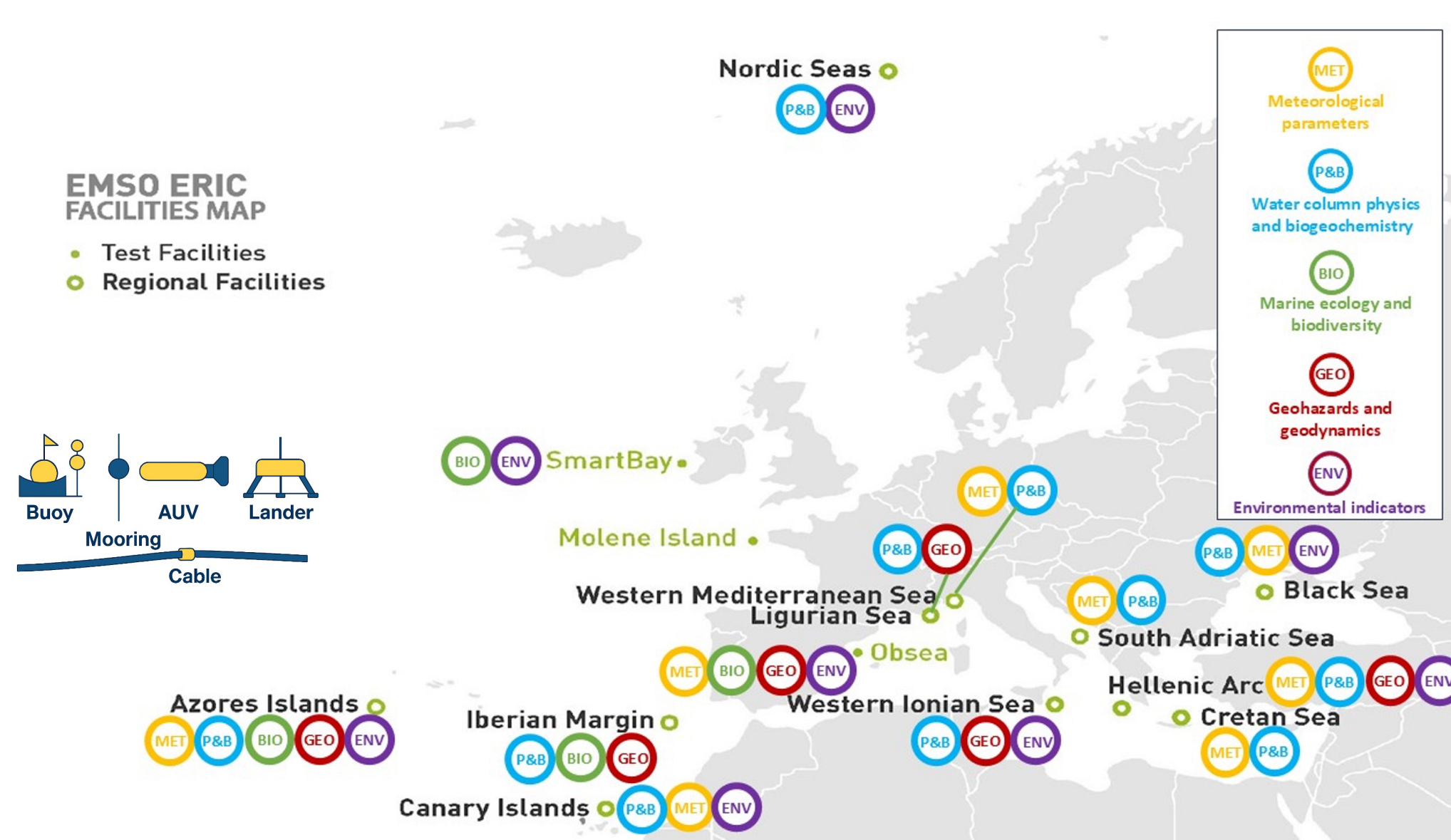
EMSO delivers Findable, Accessible, Interoperable and Reusable data. EMSO ERIC has to render them Visible, Sustainable and Inspiring thanks to dedicated tools and products for the research community and the society.

8 Country Members : Italy (host), France, Greece, Ireland, Portugal, Romania, Spain, Norway.

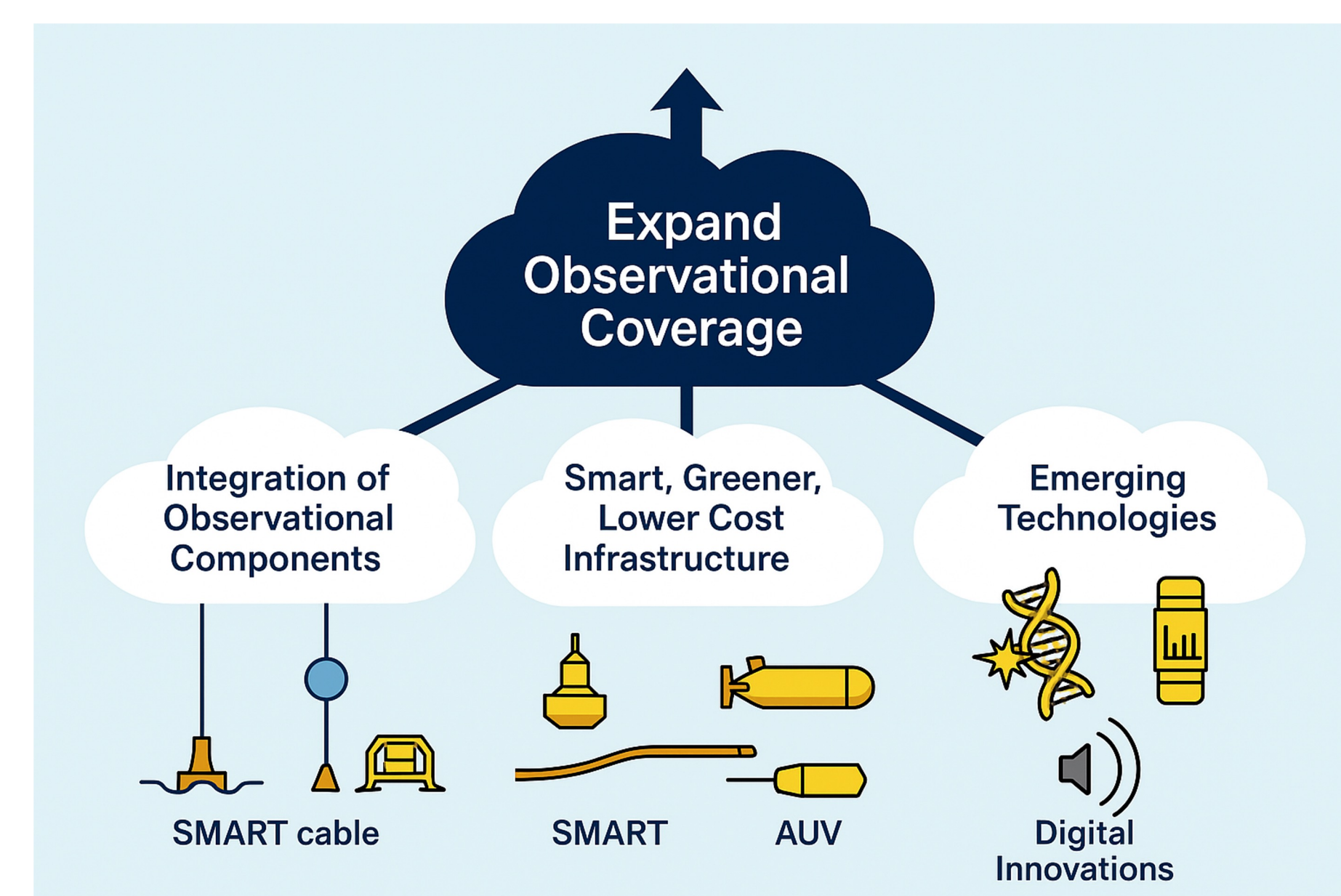
14 Regional facilities with 25 institutions involved

Operating in European Seas and open Ocean waters from the seafloor to the surface

Multidisciplinary Observations in 14 regional facilities



"The sustainability of our ocean stands in our integrative capacity to observe, study, understand and advocate it from its deepest part to the upper water column on long terms."

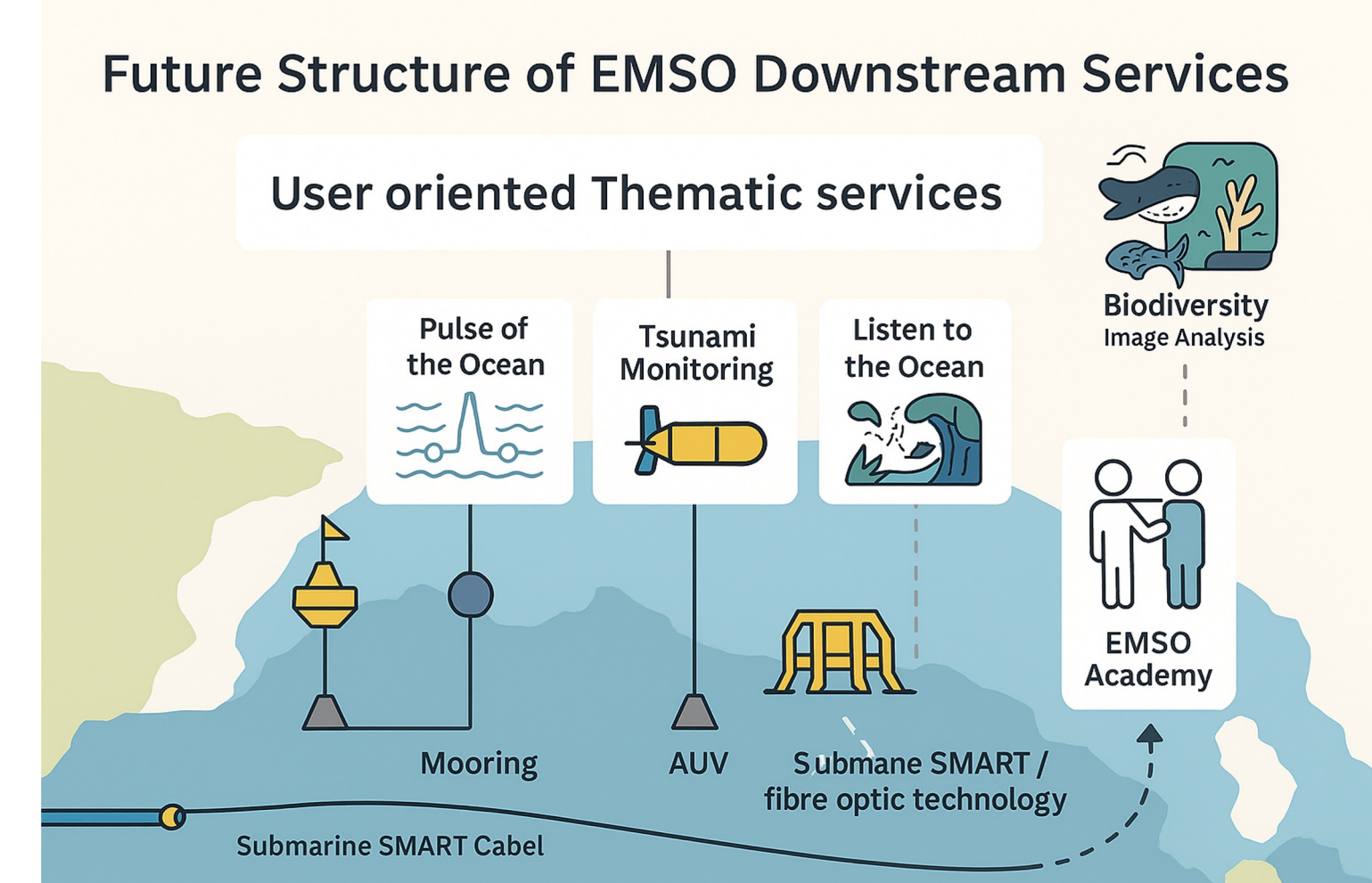
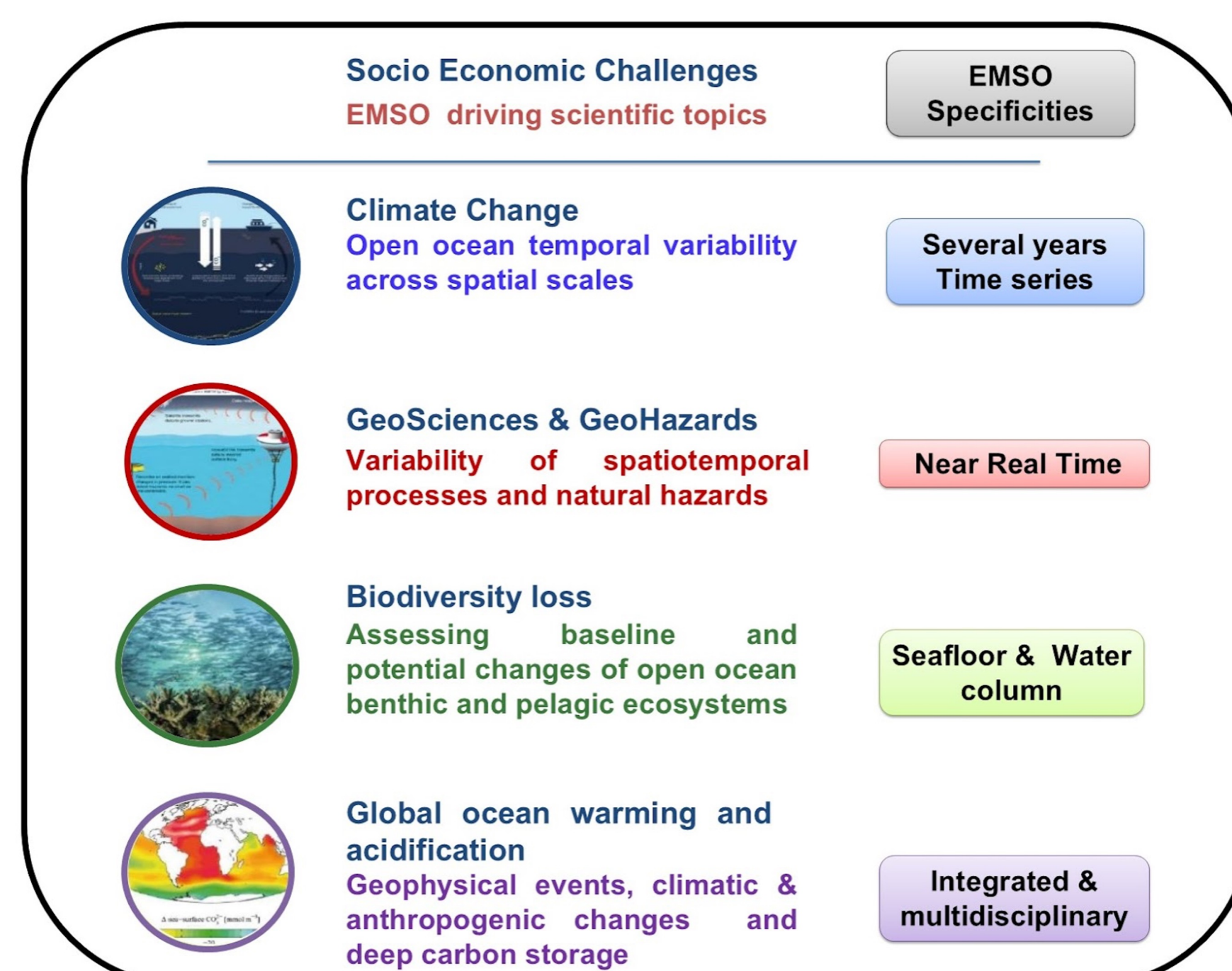
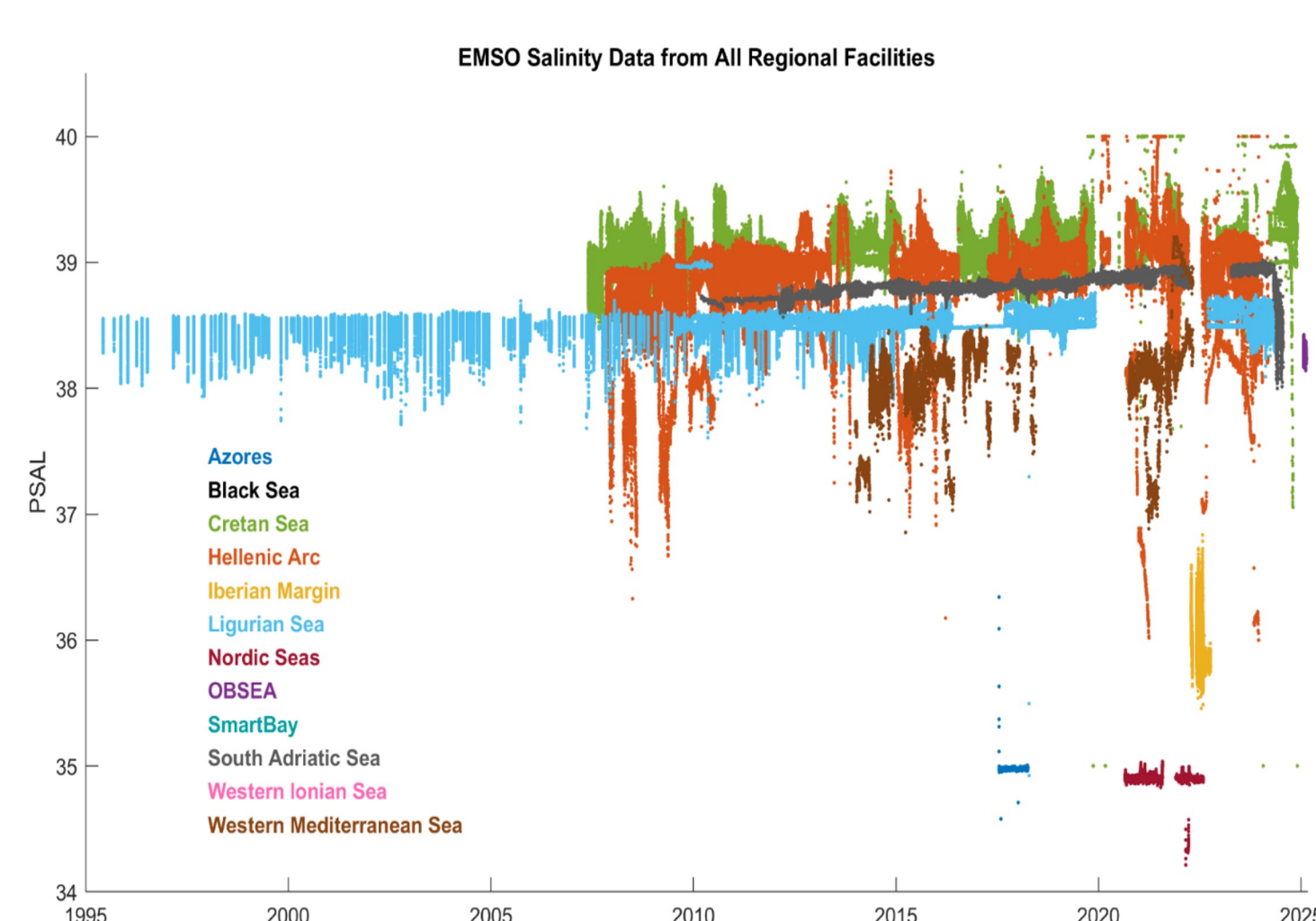


A science and society driven marine infrastructure

Fours Socio Economic Challenges

Fours Scientific topics

To address the driving four scientific topics EMSO has deployed various observing systems that stand in the water on **long term**, i.e. several years to acquire time series of **repeat** measurements. To support early warning systems the EMSO infrastructure operates delayed and **near Real time** systems. To investigate the marine ecosystems dynamics and its effects on the carbon cycle it necessarily investigates the **water column and the seafloor** with an **integrated and multidisciplinary** approach.



A collaborative and open infrastructure

A collaborative approach with other infrastructures

EMSO collaborates with ENVRIs in the board of the Environmental RIs

This is essential to implement cost effective and optimised end user driven services.



An open infrastructure that promotes open science

Joint EU funded projects

Several EU funded projects support this collaborative approach, such as AQUARIUS, Geo-INQUIRE, iMagine and GEORGE.

Open Physical Access in EMSO



A gateway to the EMSO Regional Facilities, where users' devices can be installed and experiments can take place. More through the QR code!

Enhancing the EMSO capacity building



From training to exchange, EMSO Academy is shaping the next generation to lead and innovate in ocean science for years to come. Scan the QR code for more!