

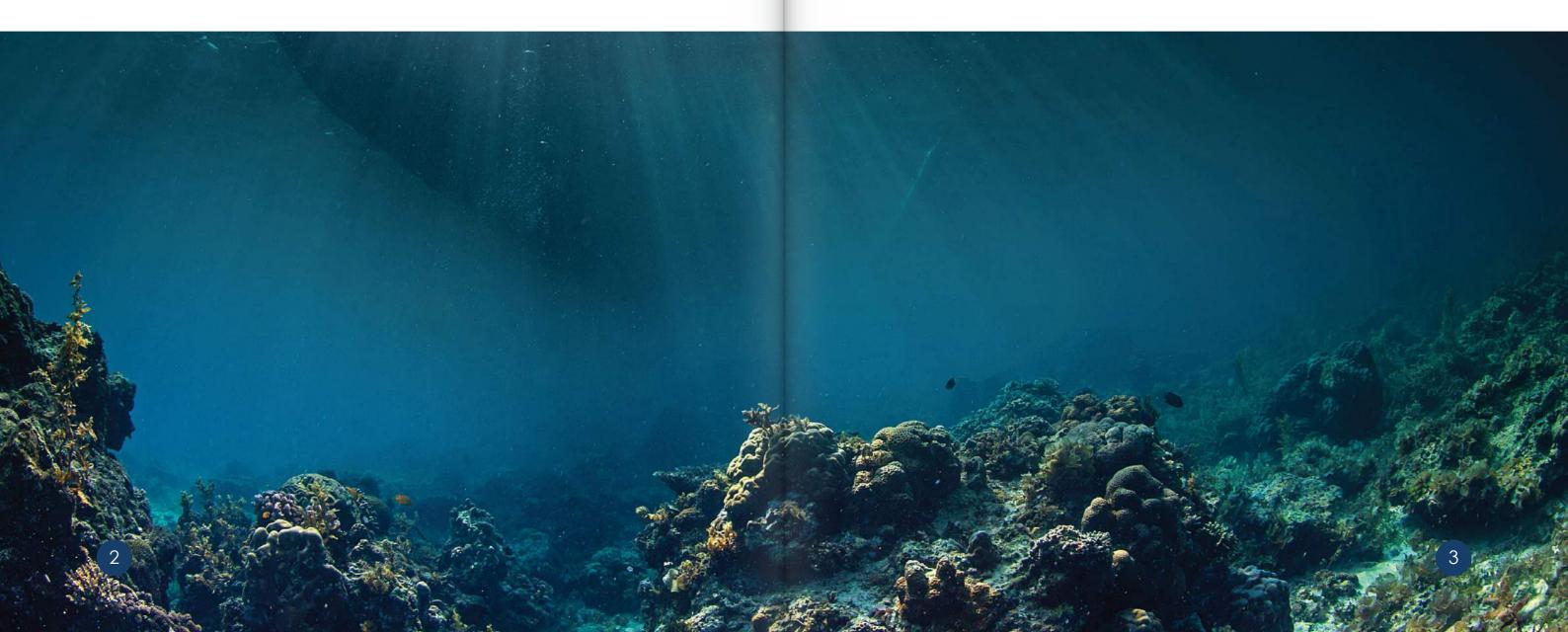




EMSO is a pan-European distributed research infrastructure composed of observatory nodes providing coherent long term data sets to study and monitor European seas. Ocean processes impact human society directly. Changes such as resource availability, climate change, habitat destruction, and geo-hazards have increased society's need for an improved understanding of the driving factors and effects of such changes.



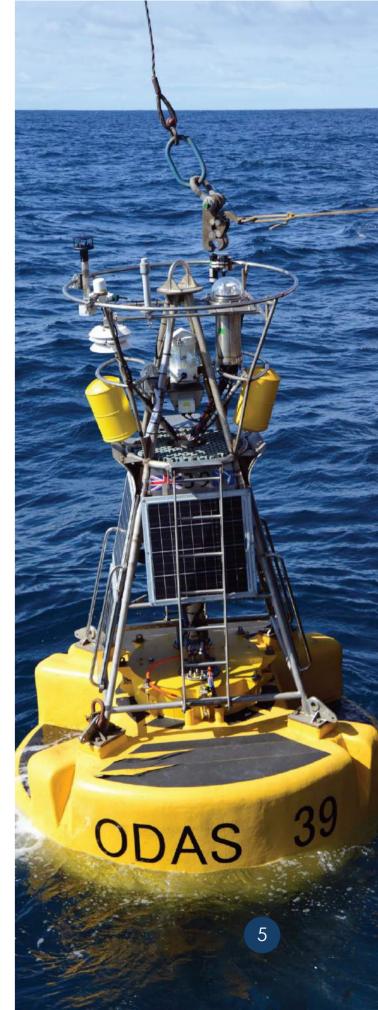
(European Multidisciplinary Seafloor and water-column Observatory DEVelopment) is an H2020 project whose objective is to develop the EMSO Generic Instrument Module (EGIM), a new multi-sensor module that will harmonise essential information collected by open ocean multiparameter observatories of EMSO.





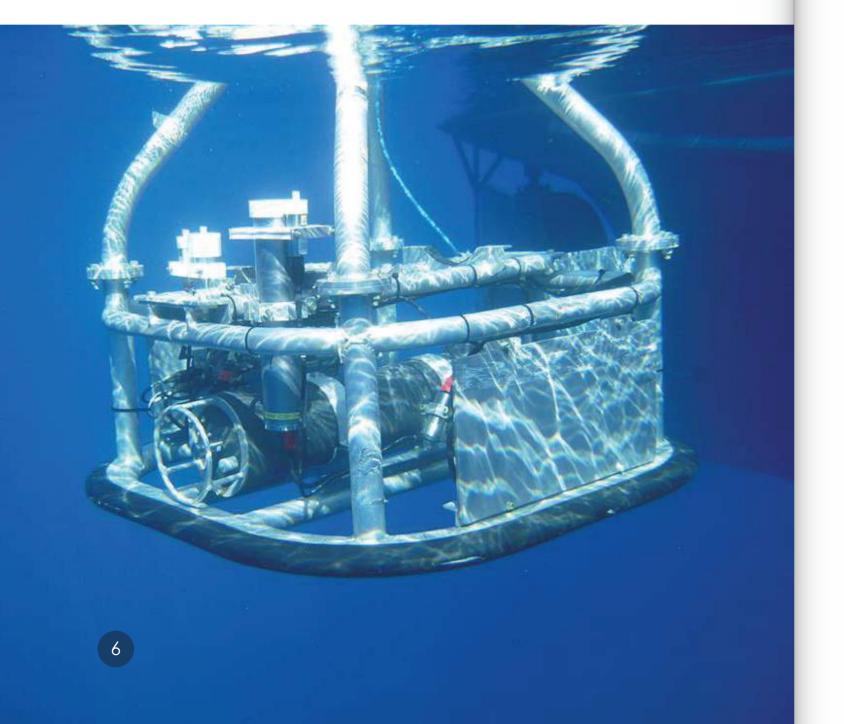
## **BENEFITS**

- Innovative environmental research based on interdisciplinary studies which will facilitate the analysis of the effects of climate change, resource extraction, and pollution in the European ocean.
- A standardised approach for European ocean observatories to support environmental protection policy. This will allow policy makers to more effectively forge policies on the basis of scientific information.
- Given the EGIM's open and modular capacity, it can be offered as an infrastructure capability for monitoring and / or impact assessment in the seafloor mining and oil and gas industries.
- The standardised nature, timely processing and data delivery capability of the EGIM combine to make it effective in geo-hazard deployments such as seismic and tsunami monitoring.
- Easy to use data and data access for anyone, anywhere, regardless of where it is produced.



## **NETWORKING EUROPEAN SEAS**

European researchers consider their marine waters as a whole, with diverse environmental conditions, that are at the same time interconnected. EMSO has already identified eleven deep-sea sites and four shallow water test sites to host nodes of underwater infrastructure, which will be the main network system for the EGIM.



## **PARTNERS**



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