

## THE ROLE OF THE GEOSCIENTISTS AT THE SERVICE OF THE SOCIETY: THE MANAGEMENT APPROACH OF THE IN KIND CONTRIBUTION OF THE HUMAN RESOURCES TO THE EMSO RESEARCH INFRASTRUCTURE

Laura Beranzoli, Agata Sangianantoni, Francesca Di Laura, Valentina Tegas, Paola Materia, and Stefano Chiappini  
Istituto Nazionale di Geofisica e Vulcanologia, Rome, Italy

The **European Research Infrastructure Consortia (ERICs)** are new working environments in the landscape of the research management. They have the role of coordinating and integrating in a unified framework, facilities spread in different research organisations of different countries. This role has the potential to generate and underpin the transition from research networks to multi-national organisations. The ERICs **missions encompass societal challenges of global dimension** which overcome the national borders but at the same time they have to ensure tangible benefits to the Member Countries. The research organisations representing the Member Countries (**Representing Entities**) are called to give a long-term commitment and the necessary human resources essential to ensure the mission of each ERICs, besides the regular financial resources provided by the Member Countries. Those human resources, namely **in-kind effort**, can be a relevant part of the contribution of the countries to the ERICs, and an added-value factor, besides the ordinary Countries financing. It is however worth to highlight that **creating an ERIC is a governmental decision**, although supported by the national research community, while the provision of the in-kind effort involves directly the Representing Entities and the linked research organisations. These two levels, the governmental one and research one, are evidently engaged in the ERICs in different ways and are influenced and driven by different national and regional settings, needs, and interests. However, **the ERICs have the responsibilities in delivering new knowledge and services for the society by means of the commitment of the research organisations** and in particular of in-kind effort of valuable skills and competencies, necessary to the implementation of the activities and to the operation and upgrade the overall infrastructure. The ERICs have to put in place the necessary best practice and new regulatory framework to enable and facilitate the participation of their researchers to their activities.

### EMSO ERIC GOVERNANCE INSPIRING PRINCIPLES

- **Safeguard interests and guarantee equitable treatment of Members and Non-Members**
- **Ensure coordination and execution of EMSO ERIC strategy**
- **Guarantee integrity, ethical behaviour, gender balance, and equal opportunities**
- **Guarantee disclosure and transparency**

### EMSO DISTRIBUTED INFRASTRUCTURE



EMSO ERIC is aimed at coordinating the use of facilities and sea operation resources for the multidisciplinary and long-term observation of the deep ocean, providing access to the observatory infrastructure, data and services for the benefit of the marine research community and the stakeholders. EMSO ERIC is committed in the harmonized integration, operation and development of Regional Facilities in 8 Countries (France, Greece, Ireland, Italy, Portugal, Romania, Spain, UK).

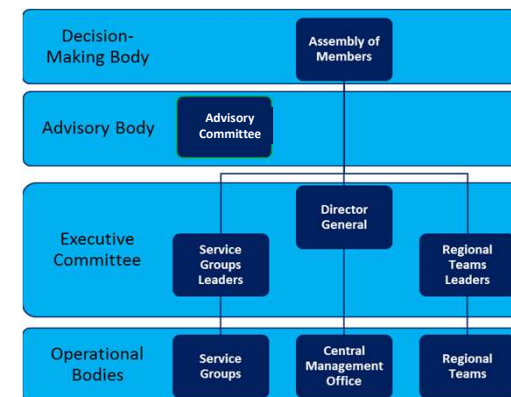
### INGV – ITALIAN REPRESENTING ENTITY AND HOST INSTITUTION OF EMSO ERIC

The **Italian** in-kind human resources contribution **provided by INGV**, through the allocation of the work time of its staff and **intellectual property** to the ERIC organisation and operation is motivated by:

- The role of Representing Entity and Host Country, which implies the provision of personnel for Central Management office, i.e. the ERIC DG supporting office, for enabling many essential ERIC functions;
- The awareness that INGV facilities, now part of the ERIC organisation, and the technical and managerial capacity of INGV staff have been built upon public investment and have to be beneficial for many sectors of the society in broad sense, and proactive in fostering public trust in geosciences
- The opportunity offered by the ERIC work environment to increase the scientific, technical, managerial, administrative capacity and skill of the INGV, as Italian public Research Body staff through the involvement in international consortia.



### EMSO ERIC GOVERNANCE



### THE IN-KIND HUMAN RESOURCES IN THE ORGANISATION OF EMSO ERIC SERVICE PROVISION

LEVEL 1 Central Mgt. Office	COMMUNICATION OFFICER	INNOVATION & INDUSTRY OFFICER	DATA MGT. OFFICER	SCIENCE OFFICER	ENGINEERING & LOGISTICS OFFICER
LEVEL 2 Executive Committee	Service Group Leader	Service Group Leader	Service Group Leader	Service Group Leader	Service Group Leader
LEVEL 3 Regional Teams	Regional Facilities	Regional Facilities	Regional Facilities	Regional Facilities	Regional Facilities

In EMSO ERIC the provision of the services relies upon three levels of engagement of the research organisations managing the ocean observation facilities. The allocation of in-kind of human resources has to meet the specific skill requirements of each level: LEVEL 1 – strategic planning, overall coordination and integration; LEVEL 2 – coordination of scientific and technical themes, guidelines for standardisation, protocols, policies; LEVEL 3 – operation of the facilities, implementation of EMSO ERIC standards, protocols and policies.