



EGI Council Participant: Maris

Participating in EGI Impact Report

Maris for SeaDataNet_

www.egi.eu

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About EGI_

EGI is a federation of providers delivering advanced computing, data, and digital services for research and innovation, while driving collaborative development and impact across scientific communities.

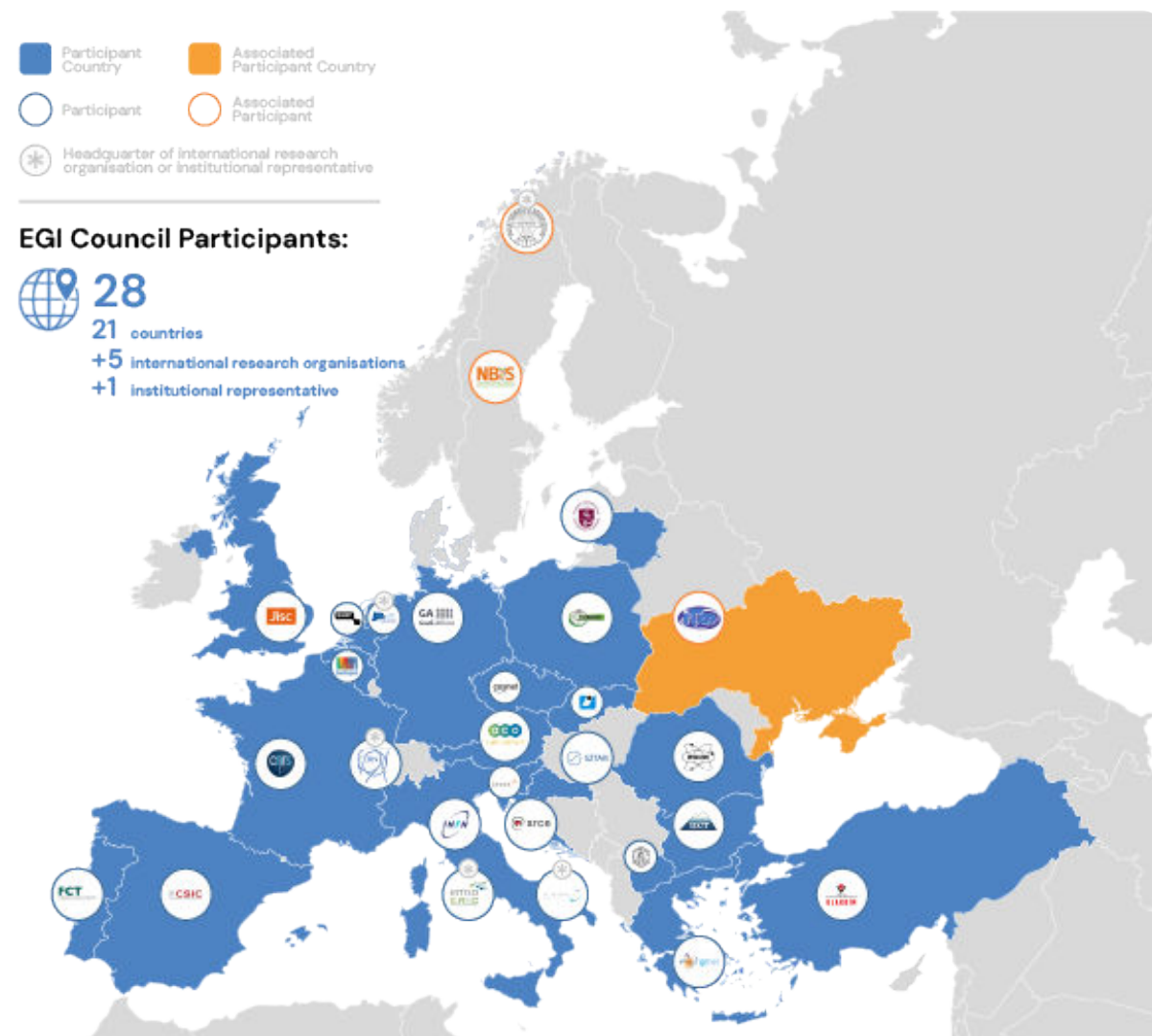
The EGI Federation brings together national and international service providers to deliver the computing and data services that research teams rely on across Europe. Working as a coordinated federation, EGI enables research communities to access advanced capabilities in computing, data analytics, and artificial intelligence, while also supporting research and development that pushes the frontiers of digital innovation for science.

Through this collaborative model, EGI helps its members transform emerging technologies and approaches, such as big data, cloud computing, artificial intelligence, digital twins, and FAIR data, into reliable, environmentally and financially sustainable services for research and education. These services are designed to ensure continuity and stability beyond individual projects, enabling scientific communities

across disciplines, countries, and funding cycles to benefit from ongoing digital innovation. At the same time, the federated infrastructure and its associated R&D activities generate impact across all fields of science, from physics to the humanities, fostering new discoveries and novel research approaches.

Coordinated by the EGI Foundation, the Federation operates through a shared IT platform that connects hundreds of providers with research groups across Europe and beyond. By aligning and aggregating national capacities with European and global priorities, EGI ensures that researchers can seamlessly access digital resources and expert support. Together, EGI and its members establish a strong and lasting foundation for open, collaborative, and data-intensive science, strengthening Europe's capacity for research and innovation.





About Maris and SeaDataNet

Mariene Informatie Service MARIS BV (MARIS) mission is to improve the overview of and access of data, information and knowledge about the sea. The MARIS foundation was established in 1989 and set up the MARIS company, which has been active since 1996. MARIS develops and manages projects and internet systems for management and provision of marine and ocean data.

SeaDataNet is a distributed Marine Data Infrastructure for the management of large and diverse sets of data deriving from in situ of the seas and oceans. Professional data centres, active in data collection, constitute a Pan-European network providing on-line integrated databases of standardised quality. The on-line access to in-situ data, meta-data and products is provided through a unique portal interconnecting the interoperable node platforms constituted by the SeaDataNet data centres. The development and adoption of common communication standards and adapted technology ensure the platforms interoperability.

The quality, compatibility and coherence of the data issuing from so many sources, is assured by the adoption of standardised methodologies for data checking, by dedicating part of the activities to training and preparation of synthesized regional and global statistical products from the most comprehensive in-situ data sets made available by the SeaDataNet partners.

Overall EGI Impact_

The EGI Federation is composed of e-infrastructure providers from national and community initiatives, forming one of the largest distributed computing infrastructures for researchers in the world, integrating about 1,243,400 CPU cores and over 1,4 Exabyte of storage space from hundreds of data centres.

In 2025, the EGI Federation served around 150,000 users (+29%). EGI users consumed 8 Billion HTC CPU hours (+8%), 43 Million Cloud CPU hours (-19%), ran over 351 Million computational jobs (-12%) and published over 2,300 open access publications.

As of the previous year, the research community with the largest number of users is Medical and Health Sciences, while the community with most extensive HTC CPU/h consumption is CMS.

From the scientific communities engaged in 2025, the one with most extensive Cloud CPU/h consumption is WeNMR.

Moreover, EGI engaged with 219 scientific communities, including SMEs and business pilots, and 41 Research Infrastructures

EGI Contribution to SeaDataNet Excellence in Science_

EGI federates hundreds of resource centres that are located at participant countries, organizations and at collaborating e-Infrastructures worldwide.

This federated infrastructure supports data- and compute-intensive research across Europe and the world. In 2025, our federation has been accessed by over 150,000 users. Research Infrastructures and multi-national research collaborations are the largest adopters of EGI Services, the main contributors of thematic portals, and operate community-specific

compute, storage and data systems based on EGI federation capabilities.

SeaDataNet is supported by several countries and institutions as per the following table.

SeaDataNet Research Collaborations in EGI

SeaDataNet (Oceanography)

- Royal Belgian Institute of Natural Sciences
- Flanders Marine Institute
- University of Liège
- AISBL: IO-BAS Bulgarian Academy of Sciences, Institute of Oceanology
- Institute of Oceanography and Fisheries
- FREMER
- Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research
- ENEA
- INGV
- ETT SpA (SCAI Group)
- OGS
- Dutch institute for Delta Technology (DELTA RES)
- Marine Information Service (MARIS)
- Royal Netherlands Institute for Sea Research
- Institute of Oceanology, Polish Academy of Sciences (IOPAN)
- IHPT Instituto Hidrografico
- NIMRD National Institute for Marine Research and Development “Grigore Antipa”
- Agencia Estatal Consejo Superior de Investigaciones Cientificas
- National Institute of Biology (NIB) – Marine Biology Station
- Institute of Marine Sciences, Middle East Technical University (IMS-METU)

- Ukrainian scientific center of Ecology of Sea (UkrSCES)
- British Oceanographic Data Centre (BODC)

EGI Supported Activities and Services

ENES has been supported through the establishment of a Data Space in the EGI-ACE project. Since 2021 the ENES Data Space is using the following services from EGI:

- EGI Check-in
- EGI Cloud Compute
- EGI Online Storage
- EGI DataHub
- Technical support
- Software integration and piloting

0 SCIENTIFIC PAPER(S)
PUBLISHED IN 2025

Services from EGI and Providers

The SeaDataNet community is consuming cloud compute resources through EGI from the INFN-Bari site (2022) and IISAS (2025).

The SeaDataNet community consumed approximately 553,821 CPUhours since the beginning of the collaboration.

SeaDataNet uses the following EGI Services:

- EGI Check-in

- EGI Cloud Compute

- EGI Online Storage

- EGI DataHub

- Technical support

- Software integration and piloting

Methodology_

Data for this impact report has been collected from the following sources.

Users

EGI uses the following methodology to capture the number of EGI users who rely on EGI services

- EGI serves users in the form of 'communities', called 'Virtual Organisations' (VO in short). A VO's members can range from one to tens of thousands. Members of a VO benefit from and use EGI services in different ways (e.g., by using Services for Federation or Services for Research).
- EGI establishes knowledge about its VOs as part of the user community support lifecycle; therefore, baseline information about VOs is collected through the Customer Relationship Management process (CRM).

At the end of 2025, there were 196 VOs in EGI. EGI Virtual Organisations (VOs) can rely on different technical and non-technical mechanisms to manage

their own members. Depending on their choice, the EGI Federation coordinator (EGI Foundation) has to follow different, corresponding approaches to know the number of members in a given VO, and to obtain additional information about these members (e.g. their 'country'). The EGI Foundation uses the following mechanisms to obtain information about the VO users:

- Obtain user number statistics from the EGI Operations Portal for VOs, where the members register personally in a 'VO membership management' system that is either operated by EGI or can be accessed by EGI.
- Obtain user number statistics from Community VRE REST APIs for VOs that operate Virtual Research Environments (VREs) on top of EGI resources. Those VREs implement a specific API to report users (e.g., WeNMR, Virtual Imaging Platform (VIP), NBIS).
- Obtain user number statistics from interviews with VO coordinators for VOs coordinated by one person.

Publications

Publications are collected from each community's public repository, if existing. Additional details are checked with the VO coordinators during the interviews to complement this information. EGI also consults OpenAIRE services to countercheck the data. You can check the list of repositories for each VO here (requires login): <https://operations-portal.egi.eu/vo/#collapseVoListOther>.

Institutional members supporting research communities

EGI relies on the information on each community's website to list institutions supporting research communities at the national level. Additionally, EGI appreciates the feedback from its national representatives to refine and improve those lists.



EGI Membership Impact Report

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