



EGI Council Participant: CSIC

Participating in EGI Impact Report

Spain_

www.egi.eu

2025

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**EGI Contribution
to the Country
Excellence in
Science**

Infographic_

Spain_

11,928

Service Users

In 2025, 11,928 researchers from Spanish institutions used the services provided by the EGI Federation

551

Publications

The research communities, projects and scientific collaborations from Spain supported by the EGI led to 551 peer-reviewed scientific publications

25

Supported Communities

The infrastructure providers from Spain federated in EGI supported 25 research communities in the following disciplines: Agriculture, Environmental Sciences, Health and Medicine, Physics

20

Projects

Spanish partners participate in 20 collaboration projects

365,2M+

Compute Delivery

In 2025, the infrastructure providers from Spain federated in EGI delivered 356,559,774 HTC CPU Hours and 8,738,551 Cloud CPU Hours

Country Overview_

Number of supported publications

551

Number of total service users

11,928

Scientific Communities supported

25

Data Centres contributing to the Federation

10

Collaboration projects

20

Total HTC CPU hours

356,559,774

Total Cloud CPU hours

8,738,551

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

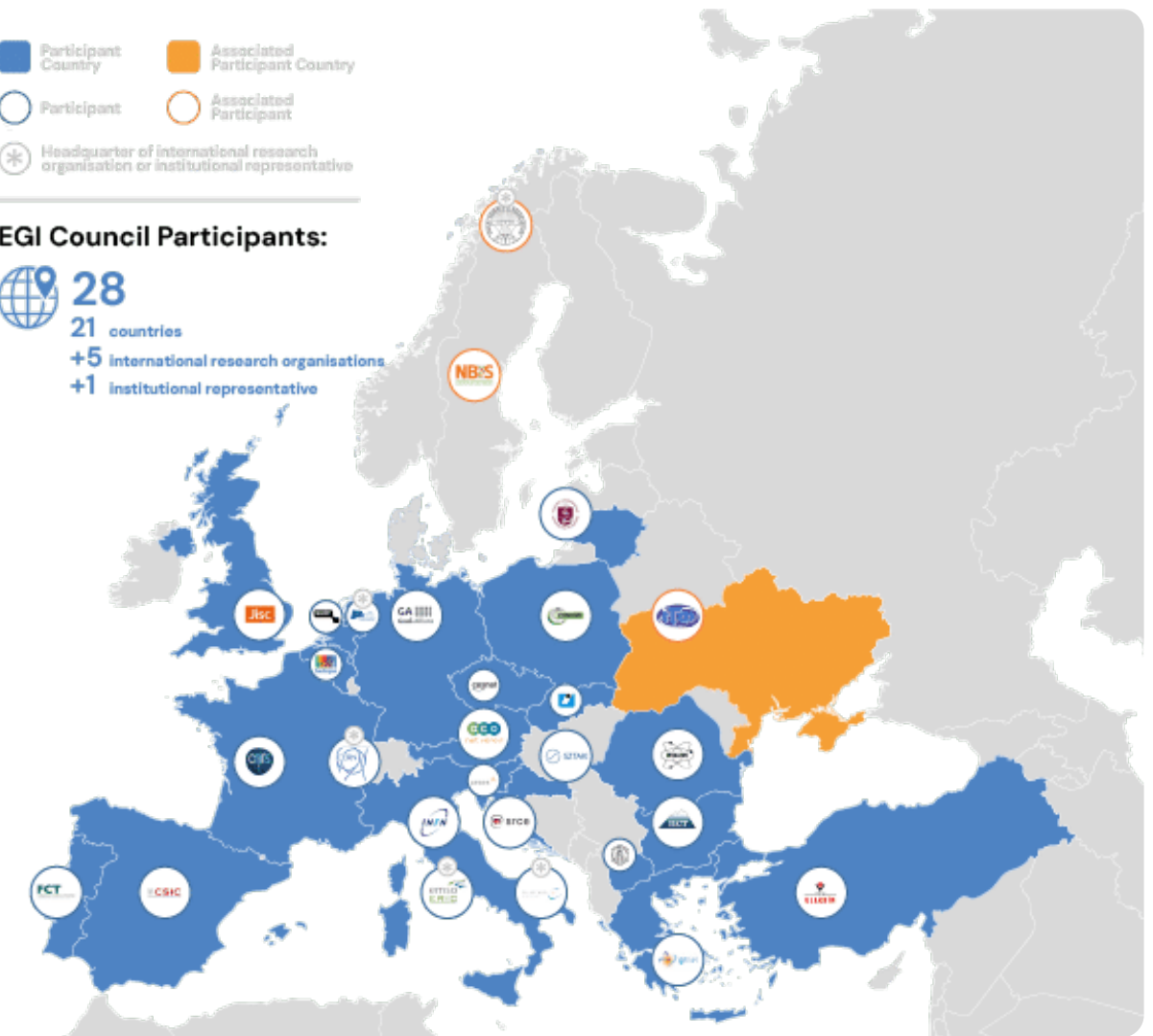
across disciplines, countries, and funding cycles to benefit from ongoing digital innovation. At the same time, the federated infrastructure and its associated R&D activities generate impact across all fields of science, from physics to the humanities, fostering new discoveries and novel research approaches.

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.



EGI Council Participants:

 **28**
21 countries
+5 international research organisations
+1 institutional representative



Council Participant CSIC_

About CSIC

The Spanish National Research Council (CSIC) is a State Agency for scientific research and technological development, with a special legal status, its own assets and treasury, functional and managerial autonomy, full legal capacity and of unlimited duration (art. 1 Statutes – Articles of Association).

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 Excellence in Science in Spain

ES-NGI coordinates the Spanish participation to the EGI Federation; CSIC represents the National grid initiative for Spain in the EGI Council. ES-NGI promotes the building and operation of a multidisciplinary national Distributed Computing Infrastructure open to all sciences and to developing countries in Spain. This report provides an overview of the activities of ES-NGI in EGI, and the impact that was achieved thanks to this participation. The annual membership fee contributed by ES-NGI to the EGI Foundation in 2025 was 86,250 EUR.

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.

The services of the EGI federation have been used by 11,928 researchers from Spain over the year. The estimated annual scientific output produced by research communities, projects and scientific collaborations from Spain and supported by the EGI Federation in 2025 is estimated to amount to over 550 peer reviewed scientific publications. The EGI Federation is currently working with almost 50 Research Infrastructures, 25 of which include Spanish partners. These EGI-enabled research infrastructures, their Spanish members and their scientific output (publications) are detailed in the following pages of the report.

Spanish Research Collaborations in EGI

AMS-02 (Particle Physics)

- CIEMAT
- Instituto de Astrofísica de Canarias

EGI Supported Activities and Services

The AMS-02 experiment on the International Space Station has been using compute resources from EGI for more than a decade. The services from the EGI federation that AMS-02 uses include:

- EGI HTC services from sites in Italy and CERN
- **Software Distribution Services** (UMC, CMD, operations documentation)
- **Operations Coordination** (middleware deployment campaigns, procedures, innovation of tools)
- **Security Services and Activities** (CSIRT, Software vulnerability group, international security coordination, policies, IGTF distribution)

3 SCIENTIFIC PAPER(S) PUBLISHED IN 2025

Spanish Research Collaborations in EGI

ALICE (High Energy Physics)

- Universitat Politècnica de València
- Universidad de Valencia

EGI Supported Activities and Services

ALICE has been supported since 2012 as part of the EGI - WLCG collaboration. Federated services delivered include:

- **Software support Infrastructure and Operations Services** (infrastructure catalogue,
- **Software Distribution Services** (UMC, CMD, operations

- documentation)
- **Operations Coordination** (middleware deployment campaigns, procedures, innovation of tools)
- **Security Services and Activities** (CSIRT, Software vulnerability group, international security coordination, policies, IGTF distribution)

43 SCIENTIFIC PAPER(S) PUBLISHED IN 2025

Spanish Research Collaborations in EGI

ATLAS (High Energy Physics)

- Barcelona Institute of Science and Technology
- Universidad Autónoma de Madrid
- Universidad de Valencia

EGI Supported Activities and Services

ATLAS has been supported since 2012 as part of the EGI - WLCG collaboration. Federated services delivered include:

- **Software support Infrastructure and Operations Services** (infrastructure catalogue,
- **Software Distribution Services** (UMC,

- CMD, operations documentation)
- **Operations Coordination** (middleware deployment campaigns, procedures, innovation of tools)
- **Security Services and Activities** (CSIRT, Software vulnerability group, international security coordination, policies, IGTF

distribution)

74 SCIENTIFIC PAPER(S) PUBLISHED IN 2025

Spanish Research Collaborations in EGI

AUGER (Astronomy)

- Universidad de Granada
- Universidad de Santiago de Compostela

EGI Supported Activities and Services

The Pierre Auger Observatory has been using compute resources from EGI partners for more than a decade. The services of the EGI federation that the Auger observatory benefits from include:

- EGI HTC services from 9 EGI participant countries (CZ, DE, IT,

- FR, ES, NL, RO, PT, SI)
- **Software distribution services** (UMC, CMD, operations documentation)
- **Operations coordination** (middleware deployment campaigns, procedures, innovation of tools)
- **Security services and activities** (CSIRT, Software vulnerability group, international

security coordination, policies, IGTF distribution)

12 SCIENTIFIC PAPER(S) PUBLISHED IN 2025

Spanish Research Collaborations in EGI BELLE (High Energy Physics) Universidad de Valencia	EGI Supported Activities and Services The BELLE experiment has been using compute resources from EGI partners since 2016. The services from the EGI federation that BELLE benefits from include: EGI HTC services from 9 EGI participant countries (CZ, DE, IT, FR, ES, NL, RO, PT, SI)	- Software distribution services (UMC, CMD, operations documentation) - Operations coordination (middleware deployment campaigns, procedures, innovation of tools) - Security services and activities (CSIRT, Software vulnerability group, international security coordination, policies, IGTF distribution)	56 SCIENTIFIC PAPER(S) PUBLISHED IN 2025
Spanish Research Collaborations in EGI CTA (Astronomy) - CIEMAT - Universitat de Barcelona - Universidad de Jaén - Universidad Complutense de Madrid - Instituto de Astrofísica de Canarias - Instituto de Astrofísica de Andalucía - Institut de Ciències de l'Espai (IEEC-CSIC) and Institució Catalana de Recerca i Estudis	Avançats (ICREA) - Barcelona Institute of Science and Technology - Port d'Informació Científica (PIC) - Universitat Autònoma de Barcelona EGI Supported Activities and Services The CTA experiment has been using compute resources from EGI partners for more than a decade. The services from the EGI federation that	CTA uses include: - EGI HTC services from 9 EGI participant countries (CZ, DE, IT, FR, ES, NL, RO, PT, SI) - Software distribution services (UMC, CMD, operations documentation) - Operations coordination (middleware deployment campaigns, procedures, innovation of tools)	Security services and activities (CSIRT, Software vulnerability group, international security coordination, policies, IGTF distribution) 0 SCIENTIFIC PAPER(S) PUBLISHED IN 2025
Spanish Research Collaborations in EGI CMS (High Energy Physics) - Universidad de Oviedo - Instituto de Física de Cantabria - CIEMAT - Universidad Autónoma de Madrid	CMS has been supported since 2012 as part of the EGI – WLCG collaboration. EGI Federated services delivered include: - Software support (consultancy to users and system administrators, (software maintenance and validation) - Infrastructure and operations Services (infrastructure	catalogue, accounting repository and portal, helpdesk, monitoring, operations portal, AAI) - Software distribution services (UMC, CMD, operations documentation) - Operations coordination (middleware deployment campaigns, procedures, innovation of tools) - Security services	and activities (CSIRT, Software vulnerability group, international security coordination, policies, IGTF distribution) 135 SCIENTIFIC PAPER(S) PUBLISHED IN 2025
Spanish Research Collaborations in EGI DUNE (Astroparticle Physics) - CIEMAT - Universitat Autònoma de Barcelona - Instituto de Física Corpuscular - Instituto Galego de Física de Altas Enerxías - Universidad Autónoma de Madrid	- University of Granada EGI Supported Activities and Services The DUNE experiment has been using compute resources from EGI partners for more than a decade. The services from the EGI federation that DUNE uses include: - EGI HTC services from 6 EGI participant	countries (CH, CZ, ES, FR, NL, UK) - Software distribution services (UMC, CMD, operations documentation) - Operations coordination (middleware deployment campaigns, procedures, innovation of tools) - Security services	and activities (CSIRT, Software vulnerability group, international security coordination, policies, IGTF distribution) 41 SCIENTIFIC PAPER(S) PUBLISHED IN 2025

Spanish Research Collaborations in EGI ELI-NP (Nuclear Physics) Centro de Laseres Pulsados Ultracortos Ultraintensos	EGI Supported Activities And Services ELI works with EGI since 2016 on exploring and validating approaches for off-site computing and data management. ELI-NP setup a High Throughput Compute Service on EGI resources and works with EGI providers on Refining the user requirements and translating these	to e-infrastructure requirements, and - Identifying and validating services from EGI that can be relevant for ELI (besides HTC and compute). - Mobilising already existing HTC compute, cloud compute and storage resources from EGI for ELI piloting and demonstration	90 SCIENTIFIC PAPER(S) PUBLISHED IN 2025
Spanish Research Collaborations in EGI EMSO (Oceanography) PLOCAN	EGI Supported Activities And Services The collaboration with EGI started back in 2017 when 4 cloud providers of the EGI Federation agreed to support the EMSODEV project during the design and implementation of the EMSODEV Data Portal. EMSO-ERIC set up	the EMSO ERIC Data Management Platform on the EGI providers in order to harmonise the data sets following Oceansites specifications, FAIR principles, and EOSC guidelines.	0 SCIENTIFIC PAPER(S) PUBLISHED IN 2025
Spanish Research Collaborations in EGI EMPHASIS (Agricultural Sciences) Institute of Agri-Food Research and Technology	EGI Supported Activities And Services EMPHASIS has been supported through the establishment of a Data Space in the EGI-ACE project. Since 2017 EMPHASIS 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
Spanish Research Collaborations in EGI FUSION (Fusion) Barcelona Supercomputing Center	EGI Supported Activities And Services The Fusion community has been using compute resources from EGI partners since 2018. The services from the EGI Federation used by the community include:	- EGI Cloud Compute - EGI Online Storage	0 SCIENTIFIC PAPER(S) PUBLISHED IN 2025

Spanish Research Collaborations in EGI

ILC (High Energy Physics)

- CIEMAT
- Universitat de Valencia

EGI Supported Activities And Services

The ILC experiment has been using compute resources from EGI partners since 2004. The services from the EGI federation that ILC experiments uses include

- EGI HTC services from 27 EGI federated sites from

- IL, DE, FR, ES, NL, PL, UK
- Software distribution services (UMC, CMD, operations documentation)
- Operations coordination (middleware deployment campaigns, procedures, innovation of tools)
- Security services and activities (CSIRT, Software vulnerability group,

international security coordination, policies, IGTF distribution)

50 SCIENTIFIC PAPER(S)
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Spanish Research Collaborations in EGI

INSTRUCT (Structural Biology)

- CryoEM CNB-CSIC
- Instruct Image Processing Center
- Instruct Centre ES

EGI Supported Activities And Services

Instruct-ERIC is a pan-European distributed research infrastructure making high-end technologies and methods in structural biology available to users. The collaboration with EGI ensures the reliable

hosting and operation of the ARIA and CRIMS production services on the EGI Infrastructure, providing a robust, secure, and scalable environment tailored to support researchers in the Health and Food domains.

50 SCIENTIFIC PAPER(S)
PUBLISHED IN 2025

Spanish Research Collaborations in EGI

KM3NET (Neutrino Observatory)

- Universitat de València
- Universitat Politècnica de Catalunya
- Universitat Politècnica de València
- Universidad de Granada
- Instituto Español de Oceanografía

EGI Supported Activities and Services

The Km3Net experiment has been using compute resources from EGI partners since 2013. The services from the EGI federation that Km3Net uses include:

- EGI HTC services from 2 EGI federated sites from IT and PL
- Software distribution services (UMC,

- CMD, operations documentation)
- Operations coordination (middleware deployment campaigns, procedures, innovation of tools)
- Security services and activities (CSIRT, Software vulnerability group, international security coordination, policies, IGTF

distribution)

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Spanish Research Collaborations in EGI

LifeWatch (Biodiversity and Ecosystem Research)

- CSIC, CIEMAT, IEO and INTA
- City Councils of Sevilla and Malaga-OMA, Port Authorities (Cartagena, Huelva and Seville),
- Network of River Basin Authorities
- Extremadura STIP

Network one Andalusian STIP

- and others

EGI Supported Activities and Services

The LifeWatch experiment has been using compute resources from EGI partners since 2018. The services from the EGI federation that LifeWatch

- uses include:
- EGI Cloud services from 2 EGI federated sites from ES and PT
 - Software distribution services (UMC, CMD, operations documentation)
 - Operations coordination (middleware deployment campaigns, procedures,

- innovation of tools)
- Security services and activities (CSIRT, Software vulnerability group, international security coordination, policies, IGTF distribution)

0 SCIENTIFIC PAPER(S)
PUBLISHED IN 2025

Spanish Research Collaborations in EGI

LHCb (High Energy Physics)

- Universitat de Barcelona
- Universidad de Santiago de Compostela,
- IFIC Valencia

EGI Supported Activities and Services

LHCb has been supported since 2012 as part of the EGI - WLCG collaboration, formally agreed in an MoU. Federating services delivered in the context of the WLCG MoU include:

- Software support
- Infrastructure and operations Services (infrastructure

- catalogue, accounting repository and portal, helpdesk, monitoring, operations portal, AAI)
- Software distribution services (UMC, CMD, operations documentation)
- Operations coordination (middleware deployment campaigns,

- procedures, innovation of tools)
- Security services and activities (CSIRT, Software vulnerability group, international security coordination, policies, IGTF distribution)

51 SCIENTIFIC PAPER(S)
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Spanish Research Collaborations in EGI

LSST (Astronomy)

- Barcelona-Madrid Consortium
- Instituto de Astrofísica de Canarias

EGI Supported Activities and Services

The LSST compute federation benefited from the following EGI services:

- Software support
- Infrastructure and operations Services (infrastructure catalogue, accounting repository and portal, helpdesk, monitoring, operations portal, AAI)

- Software distribution services (UMC, CMD, operations documentation)
- Operations coordination (middleware deployment campaigns, procedures, innovation of tools)
- Security services and activities (CSIRT, Software vulnerability

group, international security coordination, policies, IGTF distribution)

20 SCIENTIFIC PAPER(S)
PUBLISHED IN 2025

Spanish Research Collaborations in EGI

LZ (Physical Sciences)

- Universitat de Valencia

EGI Supported Activities and Services

The LZ survey federates High Throughput Compute (HTC) resources from UK. The LZ compute federation benefited from the

following EGI services:

- Software support (consultancy to users and system administrators, (software maintenance and validation)
- Infrastructure and operations Services (infrastructure catalogue, accounting repository and portal, helpdesk, monitoring,

- operations portal, AAI)
- Software distribution services (UMC, CMD, operations documentation)
- Operations coordination (middleware deployment campaigns, procedures, innovation of tools)
- Security services and activities (CSIRT,

Software vulnerability group, international security coordination, policies, IGTF distribution)

6 SCIENTIFIC PAPER(S)
PUBLISHED IN 2025

Spanish Research Collaborations in EGI

OPENCoastS (Ocean Engineering)

- Universidad de Cantabria

EGI Supported Activities and Services

OPENCoastS has been using compute resources from EGI partners since 2018. The services from the EGI federation that OPENCoastS uses include:

- EGI Cloud services from 2 EGI federated sites from ES and PT
- EGI AAI Check-in

0 SCIENTIFIC PAPER(S)
PUBLISHED IN 2025

Spanish Research Collaborations in EGI

OBSEA (Oceanography)

- SARTI
- Universitat Politecnica de Catalunya

EGI Supported Activities and Services

The collaboration with EGI started back in 2019. The services from the EGI federation that the experiment uses include:

- EGI HTC services from 2 EGI federated sites from ES, IT
- Software distribution services (UMC, CMD, operations documentation)

- Operations coordination (middleware deployment campaigns, procedures, innovation of tools)
- Security services and activities (CSIRT, Software vulnerability group, international security coordination, policies, IGTF distribution)

4 SCIENTIFIC PAPER(S)
PUBLISHED IN 2025

Spanish Research Collaborations in EGI

SeaDataNet (Oceanography)

- CSIC

EGI Supported Activities And Services

Since 2021, the SeaDataNet community is represented in the EGI Council by MARIS.. The SeaDataNet community is consuming cloud compute resources through EGI from the INFN-Bari

site (Italy) since early 2022.

The cloud compute delivery is secured with an EGI Service Level Agreement for SeaDataNet since November 2023

0 SCIENTIFIC PAPER(S)
PUBLISHED IN 2025

Spanish Research Collaborations in EGI

SKA (Radioastronomy)

- Ministry of Science, Innovation & Universities

EGI Supported Activities And Services

The Square Kilometre Array (SKA) is an intergovernmental radio telescope project being planned to be built in Australia and South Africa. 7 countries in SKA are also represented in the EGI Council (FR, DE, IT, PT, ES, NL and UK).

71 SCIENTIFIC PAPER(S)
PUBLISHED IN 2025

Spanish Research Collaborations in EGI

VIRGO (Astrophysics)

- Universitat de València
- Universitat Autònoma de Barcelona
- Universitat de Barcelona
- Barcelona Institute of Science and Technology, and ICREA
- Universidad Autonoma de Madrid

EGI Supported Activities And Services

The Virgo experiment has been using compute resources from EGI partners for more than a decade. The services from the EGI federation that VIRGO uses include:

- EGI HTC services from data centres in FR, IT, NL, ES and UK
- Software distribution services (UMC,

CMD, operations documentation)

- Operations coordination (middleware deployment campaigns, procedures, innovation of tools)
- Security services and activities (CSIRT, Software vulnerability group, international security coordination, policies, IGTF distribution)

23 SCIENTIFIC PAPER(S)
PUBLISHED IN 2025

Spanish Research Collaborations in EGI

WeNMR (Structural Biology)

- CSIC
- Universitat Pompeu Fabra Barcelona
- University of the Basque Country
- IQCC
- Universitat Autònoma de Barcelona
- Universidad de Castilla-La Mancha

- Universidad de Zaragoza
- Universitat Internacional de Catalunya
- Universidad Católica de Valencia
- Barcelona Super Computer Centre
- IRB Barcelona
- Universidad Carlos III de Madrid
- VHIR Vall d'Hebron Institut de Recerca
- Universitat Oberta de Catalunya
- and many others

EGI Supported Activities and Services

ThWeNMR is supported by EGI since 2011 and has a Service Level Agreement since 2016. The EGI Services used by the community include:

- High-Throughput, Cloud + Online Storage services from 23 EGI federated sites from NL, IT, FR, DE, PL,

UK, the Asia Pacific region, IberGrid (Spain and Portugal), the Latin America region.

- EGI Workload Manager
- Trust and identity management with Check-in

10 SCIENTIFIC PAPER(S)
PUBLISHED IN 2025

Service Level Agreements_

During 2025, CESGA and IFCA supported 3 Service Level Agreements for international scientific communities via EGI, delivering Cloud Computing, Online Storage, HTC, Workload Manager, and Content Distribution services.

Participated Projects_

In the reference period, the EGI Foundation was leading seven Horizon Europe Projects, two of which started in 2025:

- iMagine (September 2022–December 2025)
- interTwin (September 2022–August 2025)
- ENVRI-Hub NEXT (February 2024–January 2027)
- EOSC Beyond (April 2024–March 2027)
- EOSC Data Commons (April 2025–March 2028)
- RI-SCALE (March 2025–February 2028)

- SPECTRUM (January 2024–June 2026)

Furthermore, the EGI Federation was involved in 6 additional projects, increasing the innovation potential of its participants.

The EGI Federation participates in Horizon 2020 and Horizon Europe projects together with Dutch institutions to facilitate the uptake and use of e-infrastructure services for science. A summary of these projects, the involved institutes and the scope of the collaboration is provided in the next table.



interTwin



Project Title



Scope of Collaboration

EGI contributes research and development expertise to the architectural design and implementation of open, distributed software infrastructure for AI4Europe. This ensures the platform evolves as a scalable,

interoperable ecosystem. EGI also applies its deep knowledge of physical resources, usability, distributed systems, and emerging technologies to develop deployment mechanisms for AI tools across private and public cloud and HPC resources.

Participating beneficiaries from the country

- ITI
- Univerdiad de Zaragoza
- Barcelona Supercomputing Center

Project Title



Scope of Collaboration

EGI provides advanced cloud computing, notebooks, applications-on-demand, file transfer, and data archiving services to support ANERIS's research infrastructure. It contributes technical expertise to EOSC integration processes and the development of

a sustainable business model. EGI leads key technical tasks including the computing continuum infrastructure, overall integration and EOSC synergies, and innovation management, while supporting virtual research environments for genomics analysis, imaging-biooptics, and participatory sciences.

Participating beneficiaries from the country

- CSIC
- LifeWatch ERIC
- Quanta Systems SL
- Science for Change SL
- Marsabased SL
- DRIBBA
- MEDCITIES
- Federacio Catalana de Activitats Subaquatiques

Project Title



Scope of Collaboration

EGI leads the research on Blue-Cloud VRE interaction with EOSC projects (WP5) and contributes technical expertise across multiple tasks. This includes developing and deploying sub-setting services at BDIs and BlueCloud Data Lakes (T2.3), tuning

data lakes with DTO developments (T2.4), evolving common VRE services (T5.1), federating multiple e-infrastructures (T5.2), ensuring EOSC core service interoperability (T5.4), and supporting communication, community dialogue, and exploitation planning (T6.1, T7.1, T7.2)..

Participating beneficiaries from the country

- SOCIB

Project Title



Scope of Collaboration

EGI contributes to developing a detailed technical roadmap, conducting state-of-the-art analysis, and designing a modular architecture framework for data monetization. It supports the definition of KPIs for fair dataset

valuation, business cases for data sharing platforms, and pilots for framework deployment. EGI also advances non-monetary data value dimensions, validation testing, standardization activities, and coordination with the Data Spaces Support Centre.

Participating beneficiaries from the country

- ITI
- TECNALIA
- Gimeno Digital Technologies SL

Project Title



Scope of Collaboration

EGI advances the deployment and growth of common European data spaces by developing interoperable data sharing environments that enable secure reuse across sectors while upholding EU values and principles..

Participating beneficiaries from the country

- ITI
- Innovalia Association

Project Title



Scope of Collaboration

EGI supports the research and integration of datasets, tools, and workflows from diverse sources into ECHOES's technical framework. It provides scalable, secure storage and compute infrastructure, alongside a federated authentication and authorisation infrastructure (AAI) for

seamless cloud access. EGI also contributes expertise to the project's long-term sustainability and open innovation strategies through private sector engagement.

Participating beneficiaries from the country

- Universitat Politècnica de Catalunya
- RED CRUSOE

Project Title



Scope of Collaboration

EGI supports the EOSC Partnership's mission to establish Open Science as the "new normal" by contributing technical expertise and research coordination aligned with the EU-EOSC Association Memorandum of Understanding objectives.

Participating beneficiaries from the country

- CREAM

Project Title



Scope of Collaboration

EEGI contributes to expanding EOSC EU Node adoption through diverse use cases, cascading grants with EOSC Gravity, and roadmap improvements (T2.1). It supports the technical evolution and validation of the EOSC

Federation's architecture and AAI, delivering prioritised requirements and technical guidelines (T3.4). Minor contributions include synergies with Data Spaces (T4.3) and technical project management (T5.1).

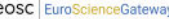
Participating beneficiaries from the country

- Instituto Aragonés de Ciencias de la Salud

Project Title 	Scope of Collaboration EGI is contributing to the architectural design and implementation of open distributed software to ensure that AI4Europe evolves as a distributed ecosystem. EGI is also providing its expertise on physical resources, usability, development of systems, distributed systems and new technologies to develop mechanisms for the AI	tools to deploy/make use of private/public Cloud and HPC resources. Participating beneficiaries from the country • CSIC • BAHIA • Consorcio Centro de Investigacion Biomedica en Red • Centre for Genomic Regulation • Hospital Clinic de	Barcelona • Instituto de Salud Carlos III • ITI • IQVIA • La Fe University and Polytechnic Hospital • MATICAL • Quibim • S2 Grupo • Andalusian Health Service • Servicio Madrileño de Salud • University of Valencia • Polytechnic University Valencia
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Project Title 	Scope of Collaboration EGI collaborates on defining technical requirements, developing authentication and authorisation infrastructure, and supporting project services onboarding to the EOSC Marketplace.	Participating beneficiaries from the country • CRDI Ajuntament de Girona	
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Project Title 	Scope of Collaboration EGI provides cloud compute and AAI services to enable execution of extended reality (XR) tools, while supporting project communications and stakeholder engagement.	Participating beneficiaries from the country • CRDI Ajuntament de Girona	
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Project Title 	Scope of Collaboration EGI contributes to developing an innovative, workflow-based Gateway connecting European scientists to computing and storage infrastructures, advancing operational FAIR data services within EOSC.	Participating beneficiaries from the country • Barcelona Supercomputing Center • Universitat de Barcelona	
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Project Title 	Scope of Collaboration EGI conducts environmental impact assessments across the EGI Federation and partner ESFRIs, identifying sustainability best practices. It develops environmental metrics publication systems,	energy-aware workflow brokering for HTC/cloud/AI services, and self-assessment questionnaires for Research Infrastructures. EGI also provides training, consultancy, and communications support.	Participating beneficiaries from the country • CSIC
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Project Title 	Scope of Collaboration EGI leads communication, dissemination, engagement, and exploitation efforts (WP1), including stakeholder mapping and service catalogue promotion. It develops climate risk training modules and provides access to training/computing infrastructure (WP3),	while contributing to FAIR frameworks, AAI analysis, and access policy alignment for integrated knowledge services (WP6)	Participating beneficiaries from the country • CSIC • CEAM • Instituto Nacional de Técnica Aeroespacial • Universidad de Granada
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Project Title 	Scope of Collaboration EGI supports research into sampling, analysis, quantification techniques, new materials, and models to evaluate plastics' environmental interactions, enabling mitigation measures and informed management decisions..		Participating beneficiaries from the country • Universidad de Vigo • Universidade da Coruna • Contactica SI
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Project Title 	Scope of Collaboration EGI co-designs and deploys AI models on edge resources, providing computational and storage capacity through its federation. It develops a two-tier e-infrastructure for validation and data processing, coordinates national funding for	sustainability, addresses data management challenges, and integrates with EOSC.	Participating beneficiaries from the country • IRTA
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Project Title	Scope of Collaboration		Participating beneficiaries from the country
	EGI supports defining interoperability standards with EOSC and the broader landscape, while leading the design of sustainable services beyond the project lifetime. It delivers a federated cloud environment and EGI Notebooks for scalable	workflow development, data analysis, and sharing within the PITHIA e-science centre.	• Observatorio del Ebro Fundacion • Universitat Politecnica de Catalunya

Project Title	Scope of Collaboration		Participating beneficiaries from the country
	EEGI leads WP6 on Services Provision, researching unified access policies and a single access point for distributed RI resources. It contributes to financial modelling and business cases (WP3), impact strategies (WP4),	dissemination (WP5), and the Italian central Hub (WP8).	• Universitat Rovira I Virgili • Barcelona Supercomputing Center • Universidad Pompeu Fabra

Project Title	Scope of Collaboration		Participating beneficiaries from the country
	EGI contributes research to gap analysis, user requirements, system specifications, security frameworks, and self-sovereign identity management. It coordinates policy recommendations on distributed infrastructures, secure data exchange, and Data Spaces, while supporting dissemination activities.		• ATOS • LSTECH ESPANA SL • Anysolutions • Univerdidad de Murcia • IDIADA Automotive Technology • CESGARDEN Playa De Muro

Project Title	Scope of Collaboration		Participating beneficiaries from the country
	EGI advances stakeholder engagement and alignment while leading IT security management and software vulnerability assessment for the UNCAN.eu platform's federated infrastructure. It contributes to infrastructure federation, decentralised health research environments,	and impact assessment guidelines.	• Univerdidad del Pais Vasco • Fundació Sant Joan de Déu per a la Recerca • GOTEL • EURECAT • I3PT Parc Taulí • Vall d'Hebron Institut de Recerca

Innovation Impact_

The EGI Federation is the innovation driving force in EGI, continuously improving the service offering. Participation in EC funded projects supports the innovation process; EGI members take part in EC projects with the EGI Foundation, contributing valuable technical implementation contributions.

In addition, the EGI Federation fosters the innovation processes in EGI by offering services for all EGI participants and their affiliates. EGI members fees and EC-funded projects support the running and operation of the internal services.

Project and legal entity involved	Role in the project	Funding received (September 2022 – December 2025)	
		EC Funding	EGI Foundation contribution to service delivery
CSIC ENVRI-Hub NEXT	Deliver CI pipelines for the integration, testing and release of the middleware running in the EGI Federation	€ 63,303	n.a.
UPV EOSC Beyond	Co-design activities and technical integrations of the CNB-CSIC Data Space and EOSC Nodes	€ 272,400	n.a.
CSIC EOSC Data Commons	Use case provider for Scipion	€ 88,355	n.a.
UPV EOSC Data Commons	Harmonised metadata specification for processing datasets	€ 171,500	n.a.
CSIC GreenDIGIT	Energy-optimisation research for AI applications	€ 254,400	n.a.
UPV iImagine	Delivery of orchestration service for for aquatic image analysis with Machine Learning techniques	€ 77,938	n.a.

Project and legal entity involved	Role in the project	Funding received (September 2022 – December 2025)	
		EC Funding	EGI Foundation contribution to service delivery
OrbitalEOS iImagine	Application development and service delivery for aquatic image analysis with Machine Learning	€ 108,825	n.a.
SOCIB iImagine	Application development and service delivery for aquatic image analysis with Machine Learning techniques	€ 109,979	n.a.
UPC iImagine	Application development and service delivery for aquatic image analysis with Machine Learning techniques	€ 154,125	n.a.
CSIC iImagine	Provide cloud services and Machine Learning service for aquatic image analysis applications	€ 381,750	n.a.
UPV interTwin	Develop Technical component for infrastructure deployment, Serverless and Real Time Data Acquisition	€ 318,250	n.a.
CSIC interTwin	WP Leader, Develop technical components for Digital twin quality and Software integration, provide use case on Lattice QCD Digital Twin	€ 492,313	n.a.

Project and legal entity involved	Role in the project	Funding received (September 2022 – December 2025)	
		EC Funding	EGI Foundation contribution to service delivery
UPV RI-SCALE	Provide expertise on data management technology	€ 94,688	n.a.
UPV SAGE	Deliver orchestration services as a value-added service to enhance the capabilities of the GDDS	€ 108,712	n.a.
CSIC EOSC EU Node Procurement Lot 1	Deliver Infrastructure Manager for the EOSC EU Node	€ 188,672	n.a.
CESGA Federation Core Services	Accounting repository and Portal	n.a.	€ 39,445
TOTAL		€ 2,821,205	€ 39,445

Infrastructure Contributions

The EGI Federation offers two complementary compute capabilities: the High-Throughput Compute (HTC) federation and the Cloud federation. 10 Spanish data centres contribute to these federations:

HTC Federation:

- ifae (IFAE)
- IFCA-LCG2 (Instituto de Fisica de Cantabria)
- IFIC-LCG2 (Instituto de Fisica Corpuscular, Valencia)
- pic (Port d'Informacio Cientifica)
- UAM-LCG2 (UAM, Madrid)

Cloud Federation:

- CESGA-CLOUD (Centro de Supercomputacion de Galicia)
- BIFI (Instituto de Biocomputacion y Fisica de Sistemas Complejos at Universidad de Zaragoza)
- CETA-GRID (Resource Center CETA-CIEMAT)
- IFCA-LCG2 (Instituto de Fisica de Cantabria)
- UPV-GRyCAP (Universidad Politecnica de Valencia – Grupo de Redes y Computacion de Altas Prestaciones)

The data centres provided 10 service endpoints and delivered 356,559,774 HTC CPUhours and 8,738,551 Cloud CPUhours in total to EGI communities over the year.

With the help of the EGI Security Vulnerability Group, the Spanish sites avoided 49 critical vulnerabilities in foundational software systems during the year.

The most active international user groups of the country compute resources were:

- CMS 43.02%;

- ATLAS 42.40%;
- LHCb 8.38%;
- VIRGO 4.81%;
- DUNE 1.19%;

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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