



EGI Council Participant: VU

Participating in EGI Impact Report

Lithuania_

www.egi.eu

2025

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203

Service Users

In 2025, 203 researchers from Lithuanian institutions used the services provided by the EGI Federation

1,331

Publications

The research communities, projects and scientific collaborations from Lithuania supported by EGI led to 1,331 peer-reviewed scientific publications

3

Supported Communities

In 2025, the infrastructure providers from Lithuania federated in EGI supported 6 research communities in the following disciplines: Health and Medicine, Physics

Country Overview

Number of supported publications 1,331

Number of total service users 203

Scientific Communities supported 3

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.

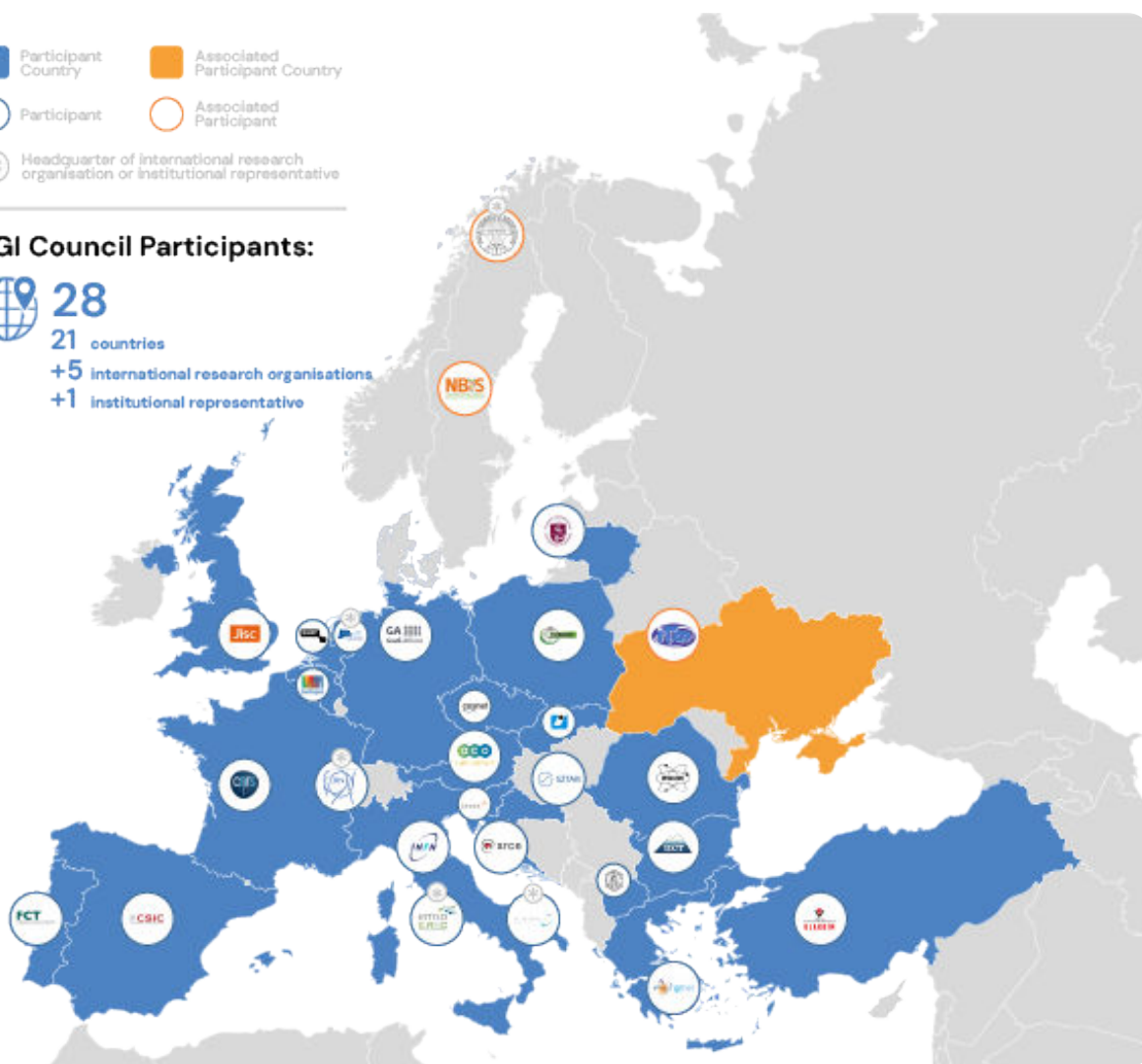




- Participant Country
- Associated Participant Country
- Participant
- Associated Participant
- Headquarter of international research organisation or institutional representative

EGI Council Participants:

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



Council Participant VU_

About Vilnius University

VU is the reference provider for the Lithuanian academic community, with HPC resources amounting to 0.3 PFlops, that are being procured and set up by the end of 2020 across 3 different institutes of VU, including the mathematics department, the informatics department and the physics department. VU is also participating to EuroCC and Lithuania is a funding organization of EuroHPC. VU is working towards building a consortium to represent the e-infrastructure of the Republic of Lithuania.



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 Lithuania_

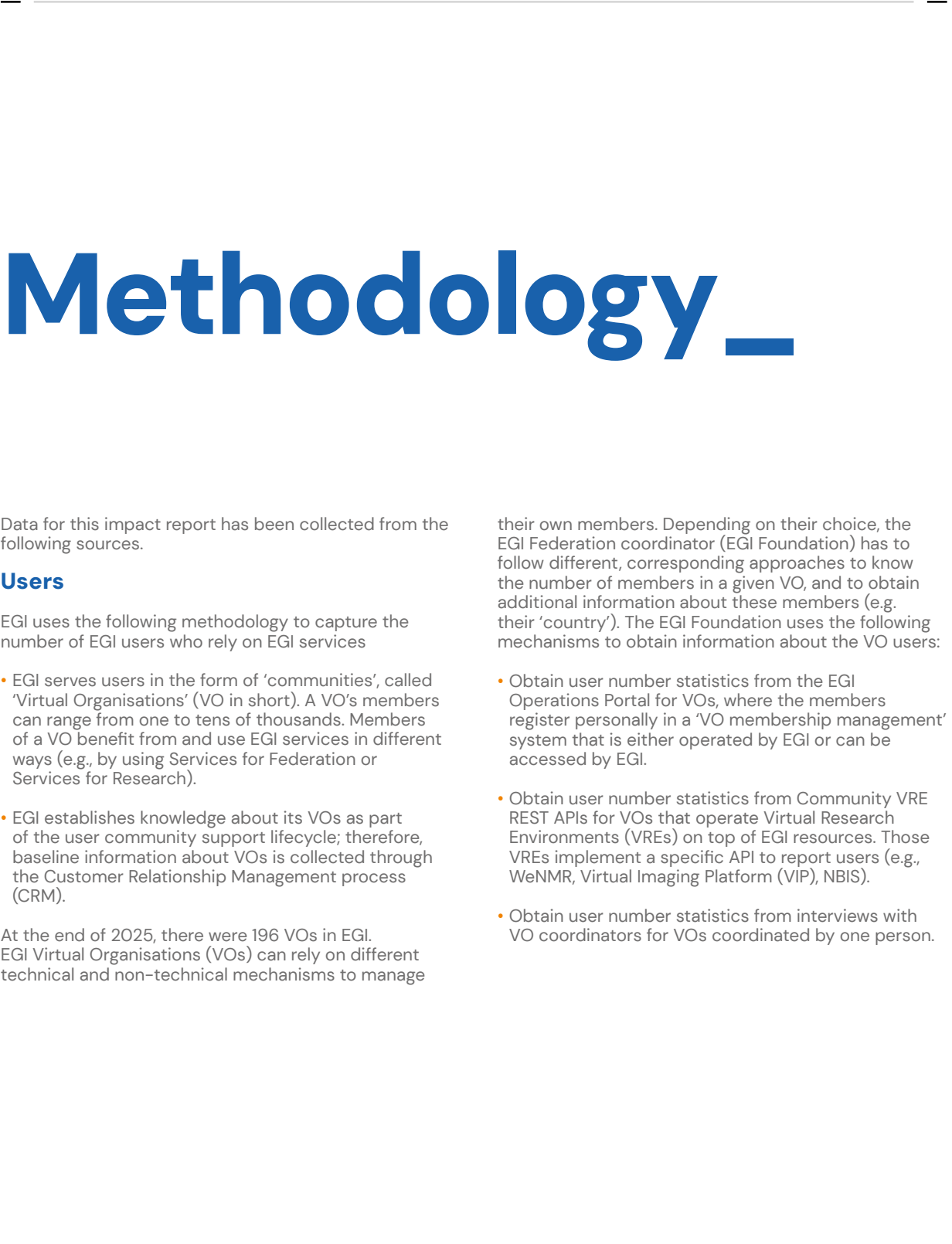
VU coordinates the Lithuanian participation to the EGI Federation. VU promotes the building and operation of a multidisciplinary national Distributed Computing Infrastructure open to all sciences and to developing countries in Lithuania. This report provides an overview of the activities of VU in EGI, and the impact that was achieved thanks to this participation. The annual membership fee contributed by SURF to the EGI Foundation in 2025 was 28,750 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 203 researchers from Lithuania over the year. The estimated annual scientific output produced by research communities, projects and scientific collaborations from Lithuania and supported by the EGI Federation in 2025 is estimated to amount to over 1,330 peer reviewed scientific publications. The EGI Federation is currently working with almost 50 Research Infrastructures, 3 of which include Lithuanian partners. These EGI-enabled research infrastructures, their Lithuanian members and their scientific output (publications) are detailed in the following pages of the report.

Lithuanian Research Collaborations in EGI CMS (High Energy Physics) - Lithuanian Academy of Sciences - Vilnius University	EGI Supported Activities and Services 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
Lithuanian Research Collaborations in EGI ELI-NP (Nuclear Physics) State Research Institute Centre for Physical Sciences and Technology	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 activities.	90 SCIENTIFIC PAPER(S) PUBLISHED IN 2025
Lithuanian Research Collaborations in EGI WeNMR (Structural Biology) Vilnius University	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



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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