



EGI Council Participant: SRCE

Participating in EGI Impact Report

Croatia_

www.egi.eu

2025

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Croatia_

184

Service Users

In 2025, 184 researchers from Croatian institutions used the services provided by the EGI Federation

1,370

Publications

The research communities, projects and scientific collaborations from Croatia supported by the EGI led to 1,370 peer-reviewed scientific publications

9

Supported Communities

The infrastructure providers from Croatia federated in EGI supported 9 research communities in the following disciplines: Agriculture, Health and Medicine, Physics

2

Projects

Croatian partners participated in 2 collaboration projects

15K+

Compute Delivery

In 2025, the infrastructure providers from Croatia federated in EGI delivered 15,813 HTC CPU Hours

Country Overview_

Number of supported publications

1,370

Number of total service users

184

Scientific Communities supported

9

Data Centres contributing to the Federation

2

Collaboration projects

2

Total HTC CPU hours delivered

15,813

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

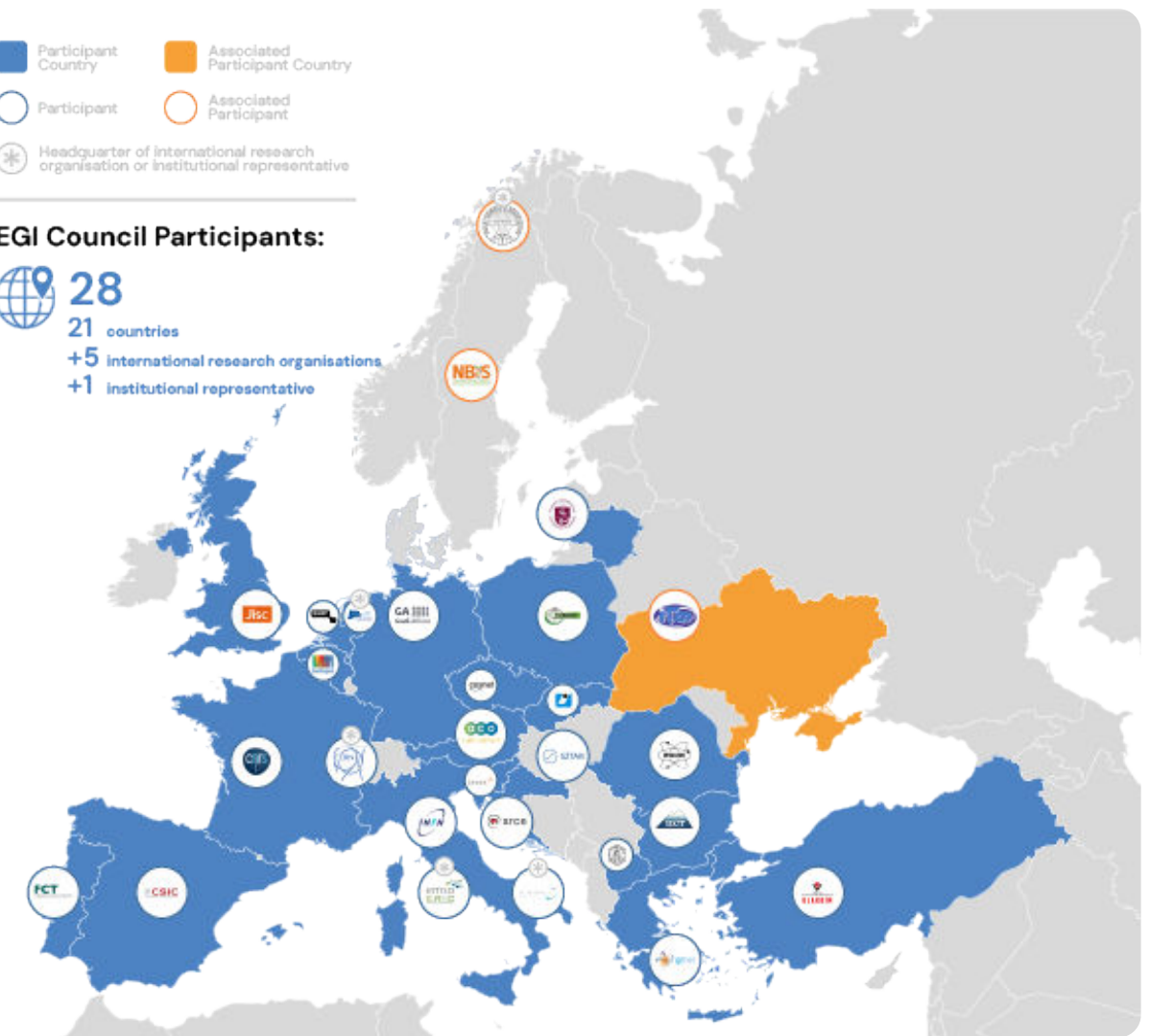
across disciplines, countries, and funding cycles to benefit from ongoing digital innovation. At the same time, the federated infrastructure and its associated R&D activities generate impact across all fields of science, from physics to the humanities, fostering new discoveries and novel research approaches.

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 SRCE_

About SURF

SRCE – University of Zagreb University Computing Centre as the major national infrastructural ICT institution is providing a modern, sustainable and reliable e-infrastructure for the research and education community in Croatia. It was founded in 1971 within the University of Zagreb, the only Croatian university at the time, with the purpose to enhance the implementation of information technologies in the academic community as well as in Croatia in general. Today, SRCE is the main computing centre and the architect of the e-infrastructure, covering the whole Croatian research and high education system. Furthermore, SRCE is the competence centre for information and communication technologies as well as the centre for education and support in the area of ICT application.

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 the Croatia

SRCE is the legal representative of Croatia in the EGI Federation; as such it participates in EGI Council and performs all activities such as operation of EGI infrastructure services, providing user support and promoting EGI services to national users. SRCE promotes the building and operation of a multidisciplinary national Distributed Computing Infrastructure open to all scientists. This report provides an overview of the activities of SRCE 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 167 researchers from Croatia over the year. The estimated annual scientific output produced by research communities, projects and scientific collaborations from Croatia and supported by the EGI Federation in 2025 is estimated to amount to 1,370 peer reviewed scientific publications. The EGI Federation is currently working with almost 50 Research Infrastructures, 33 of which include Croatian partners. These EGI-enabled research infrastructures, their Croatian members and their scientific output (publications) are detailed in the following pages of the report.

Croatian Research Collaborations in EGI

ALICE (High Energy Physics)

- University of Split
- Rudjer Boskovic Institute,
- University of Zagreb

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

Croatian Research Collaborations in EGI

CTA (Astronomy)

- University of Zagreb
- University of Split
- University of Osijek
- Rudjer Boskovic Institute
- University of Rijeka

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

Croatian Research Collaborations in EGI

CLARIN (Linguistics)

- HR-CLARIN University of Zagreb

EGI Supported Activities and Services

CLARIN thematic services has been supported by EGI since 2018. CLARIN has a Service Level Agreement with EGI, using the following services:

- EGI Cloud (Compute + Online Storage) for hosting the Virtual Language Observatory

- (VLO)
- Technical support
- Service integration

0 SCIENTIFIC PAPER(S) PUBLISHED IN 2025

Croatian Research Collaborations in EGI

CMS (High Energy Physics)

- University of Split
- Rudjer Boskovic Institute

EGI Supported Activities and Services

CMS has been supported since 2012 as part of the EGI - WLCG collaboration, formally agreed in an MoU. Federated services delivered in the context of the WLCG MoU 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

Croatian Research Collaborations in EGI

EMPHASIS (Agricultural Sciences)

- University of Zagreb
- Agricultural Institute Osijek

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

Croatian Research Collaborations in EGI

JUNO (Neutrino Observatory)

- University of Zagreb
- Rudjer Boskovic Institute

EGI Supported Activities and Services

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

EGI HTC services from 3 EGI federated sites from FR, IT and China.

- 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)

66 SCIENTIFIC PAPER(S)
PUBLISHED IN 2025

Croatian Research Collaborations in EGI

LSST (Astronomy)

- Rudjer Boskovic Institute

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

Croatian Research Collaborations in EGI

SeaDataNet (Oceanography)

- Institute of Oceanography and Fisheries

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

Croatian Research Collaborations in EGI

WeNMR (Structural Biology)

- Ruđer Bošković Institute (RBI)
- University of Zagreb
- Medicinski Fakultet Osijek

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, SRCE supported 1 Service Level Agreement for international scientific communities via EGI, delivering Cloud Computing and Online Storage 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 Croatian 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		Participating beneficiaries from the country
	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)..	• SRCE • University of Zadar

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.	• ECHR d.o.o.

Infrastructure Contributions

The EGI Federation offers two complementary compute capabilities: the High-Throughput Compute (HTC) federation and the Cloud federation. 2 Croatian data centres contribute to these federations:

the Croatian sites avoided 49 critical vulnerabilities in foundational software systems during the year.

HTC Federation:

- egee.srce.hr (University Computing Centre, Zagreb, Croatia)

Cloud Federation:

- fedcloud.srce.hr (University Zagreb)

The data centres provided 2 service endpoints and delivered 15,813 CPUhours in total to EGI communities over the year. With the help of the EGI Security Vulnerability Group,

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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