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# Advanced Computing for a Data-Driven Future

Supporting data-intensive  
research with advanced  
computing services

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# About EGI

We are the federation of computing and storage resource providers united by a mission of delivering advanced computing and data analytics services for research and innovation.

From advanced HTC and Cloud computing to Data spaces and data analytics tools, EGI changes the way researchers open and innovate their science, and operate in digital environments.

## EGI Service Providers

EGI is a federation of computing and storage resource providers united by a mission to support research and development. The federation is governed by the 28 participants represented in the EGI Council and coordinated by the EGI Foundation.

+150K

Users

8B

HTC CPU  
Hours

43M

Cloud CPU  
Hours



Tiziana Ferrari  
EGI Director



Our service portfolio is based on IT solutions that are co-developed with research communities and specialised to address the needs of the most demanding large-scale data-intensive science. Our compute fabric federates the advanced capabilities of hundreds of research data centres in Europe and beyond.

EGI's collaborative infrastructure supports the reuse and customisation of high-tech solutions, proven successful in complex digital research projects.

Our expert network assesses technology needs, recommends solutions, and collaborates on advancing setups. EGI provides tailored training for maximising resource utilisation.

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# Services for Research

Our large-scale computing and data analytics services are helping scientists to accelerate the process leading to research outputs.



## Compute

EGL compute infrastructure provides fast and flexible compute capacity to fit any research need. Our Compute Services are the perfect choice for researchers who demand the best in performance, flexibility, and ease of use.



### Cloud Compute

Run virtual machines on demand with complete control over computing resources



### Cloud Container Compute

Run Docker containers in a lightweight virtualised environment



### High-Throughput Compute

Execute thousands of computational tasks to analyse large datasets



### Software Distribution

Publish and access software efficiently across multiple sites

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## Compute orchestration

These services are designed to give you complete control over your computing resources across the EGL distributed infrastructure, maximising the efficiency of your computing operations, streamlining your workload management, and boosting your productivity.



### Workload Manager

Manage computing workloads in an efficient way



### Infrastructure Manager

Use cloud orchestrator to deploy and configure complex virtual infrastructures

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## Storage and Data

Do you need reliable services for storing and transferring your data across international research teams? With three specialised services to choose from, we have everything that users and service providers might need to store, share, and transfer their valuable data in a reliable and efficient way.



### Online Storage

Store, share & access files and metadata on a global scale



### Data Transfer

Transfer large sets of data from one place to another



### DataHub

Access key scientific datasets in a scalable way



## Security & Identity



EGI Check-in enables single sign-in through different Identity Providers across multiple services. It acts as a central hub that connects federated Identity Providers to many service providers.



### Check-in

Login with your own credentials



### Secrets Store

Easily retrieve, manage, and rotate credentials, API keys, and other secrets through their lifecycle

## Training

At EGI, we believe in empowering scientific communities through professional development and the acquisition of knowledge. We offer a wide range of training and consultancy services to help you make the most of our cutting-edge EGI services.



### FitSM Training

Learn how to manage IT services with a pragmatic and lightweight standard



### ISO 27001 Training

Learn how to manage and secure information assets



### Training Infrastructure

Dedicated computing and storage for training and education

## Applications

With EGI Applications, you can gain access to online applications, application-hosting frameworks, and a browser-based tool for compute-intensive data analysis. Our innovative services offer a range of features and benefits that will transform the way you work with data.



### Replay

Reproduce and share research on a notebooks-based platform



### Notebooks

Create interactive documents with live code, visualisations and text



# EGI Solutions

From advanced computing to data spaces and service hosting, EGI changes the way researchers innovate science and operate in a digital world.

## Explore Our Solutions



### Batch computing

Enables researchers, and scientific communities to easily and efficiently run hundreds of thousands of batch computing jobs on the EGI Infrastructure.

### Interactive computing

Web-based environment to facilitate the sharing and reproducibility of Open Science.

### Federated access

Identity and access management solution to increase productivity and secure access to services and resources.

### Data Space

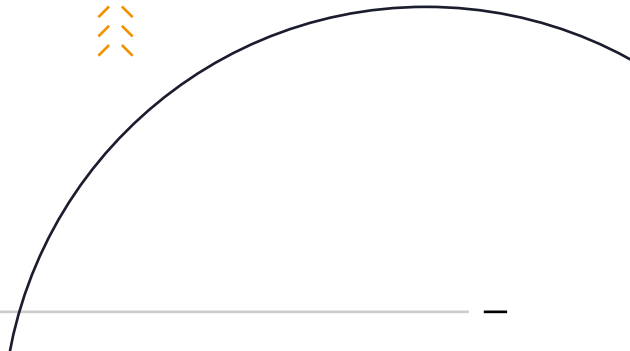
Provisioning of integrated compute and data capacity, data collections, as well as cloud-enabled service offering for scalable data analysis.

### Data Federation

Unified data access across distributed data providers.

### Service hosting

Dedicated and secure servers to deploy and scale-up domain-specific web hosting solutions on the EGI Federated Cloud.



# How to Access



Our goal is to make accessing essential services for researchers easy and free. We balance this by utilising national and European investments to support our infrastructure and compensate professionals. Community funding supplements our resources, ensuring long-term sustainability beyond short projects.

## SPONSORED ACCESS

### EC Funding

**WHAT:** Virtual access to EGI services, support or co-development

**ACCESS POLICY:** Free at the point of use

**REQUIREMENT:** Relevance to scope of the project

**SUSTAINABILITY:** Post-project support possible | subject to negotiation

**HOW:** Use cases submission to open calls, project partnership

### In-kind support on the national level

**WHAT:** Access to EGI services, support or co-development

**ACCESS POLICY:** Free at the point of use thanks to national funding

**REQUIREMENT:** Alignment to national roadmaps and priorities

**SUSTAINABILITY:** Depending on the national or institutional priorities

**HOW:** Memorandum of Understanding with the EGI Foundation facilitating the matchmaking

## PAID ACCESS

### Direct charge

**WHAT:** Access to EGI services, support or co-development

**ACCESS POLICY:** As defined in the contract

**REQUIREMENT:** Mutual interest

**SUSTAINABILITY:** As defined in the contract

**HOW:** Direct contract

## LONG-TERM PARTNERSHIP

### EGI Federation membership

**WHAT:** Access to EGI services for research & services for federation

**ACCESS POLICY:** Services for federation as defined in the SLAs | Services for research are subject to negotiation

**REQUIREMENT:** Research Infrastructures with a legal entity

**SUSTAINABILITY:** Long-term support and collaboration

**HOW:** By joining the EGI Federation as Participant or Associated Participant

**MORE INFORMATION:**  
<https://go.egi.eu/join>

# Your Journey with EGI



01

Tina is part of the Pangeo community, a collaborative effort to make big data analysis accessible to scientists worldwide.

## Tina's challenge

Pangeo is growing rapidly, and the demand for computational resources is skyrocketing. Managing this increasing load while maintaining optimal performance for users is becoming a significant challenge.

## Discover

Tina recognises the growing computational demands of the PANGEO user base and identifies EGI as a potential solution provider due to its reputation for advanced computing resources for research.



02

## Engage

Tina reaches out to EGI to explore potential solutions, detailing PANGEO's specific requirements and highlighting the need for a scalable and robust computing platform.



03

## Co-develop

Tina collaborates closely with EGI's technical experts to define the optimal configuration, resources, and technical support. A joint technical integration plan is developed to initiate the collaboration.



04

## Use

Tina and EGI successfully validate and operate a big data analytics platform, leveraging EGI's advanced solutions and scalable resources. This platform is tailored to meet the specific needs of the PANGEO community.



05

## Grow

Tina and EGI collaborate to promote the newly deployed environment through joint training workshops and user guides to maximise user adoption and leverage the platform's capabilities.



# Get in touch

 [support@egi.eu](mailto:support@egi.eu)

 [www.egi.eu](http://www.egi.eu)

 [egi-foundation](https://www.linkedin.com/company/egi-foundation)

 [@EGI\\_eInfra](https://www.youtube.com/channel/UCG1eI_nfra)

 [@egiinfra.bsky.social](https://bsky.app/profile/egiinfra.bsky.social)