



EGI101 – Introduction to EGI

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Community Support Team Lead
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TLP: GREEN Limited disclosure



Community Support Team Lead. @ EGI Foundation

Member of the EGI Foundation team since Dec. 2015

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Based on Catania, Italy

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- **Who** we are, **What** we do, and **Who** do we support
- The **role** of the EGI Federation in the **implementation** of the **EOSC**

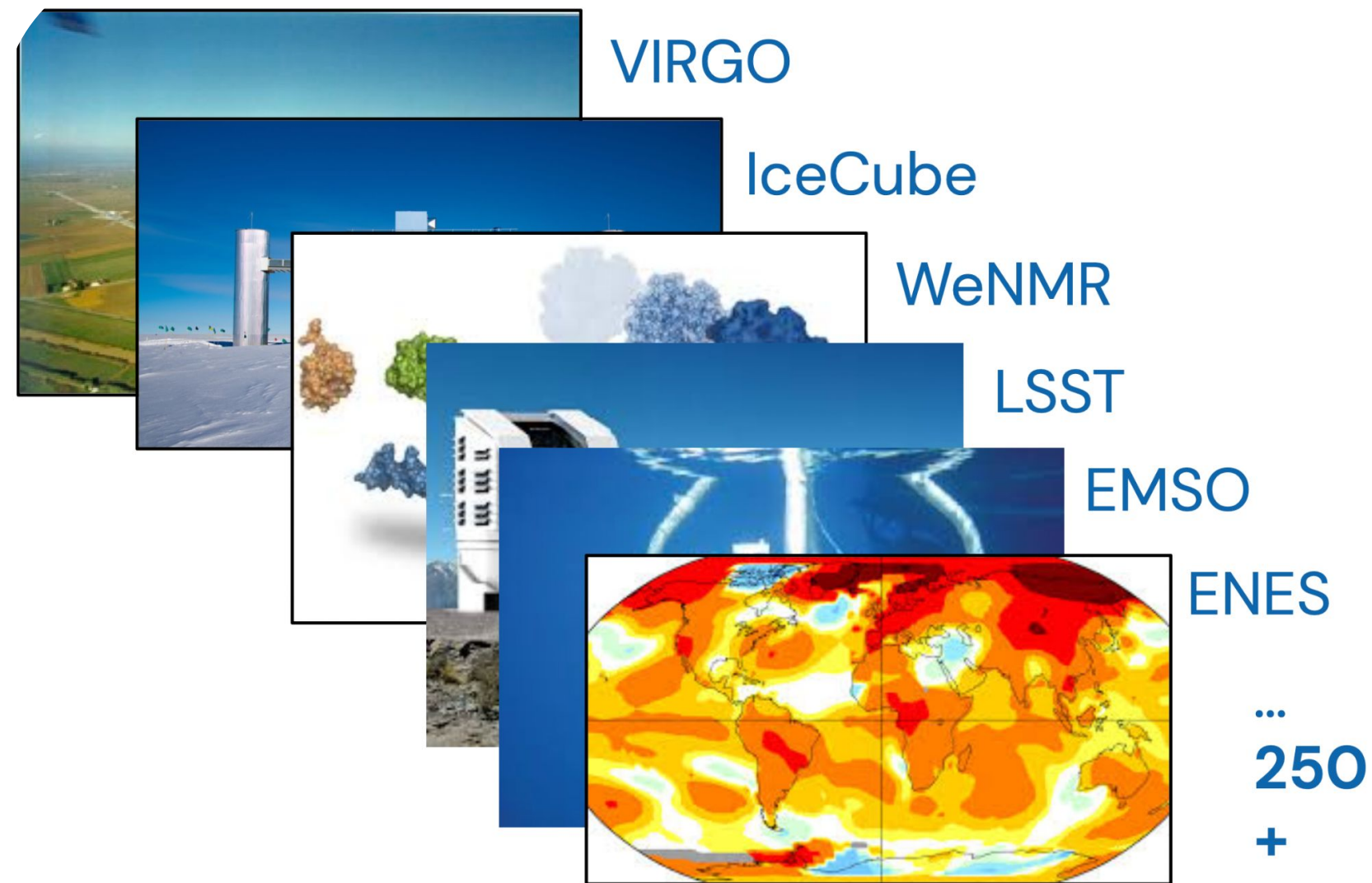
The EGI Federation is an international e-infrastructure

We provide advanced computing and data analytics for research and innovation



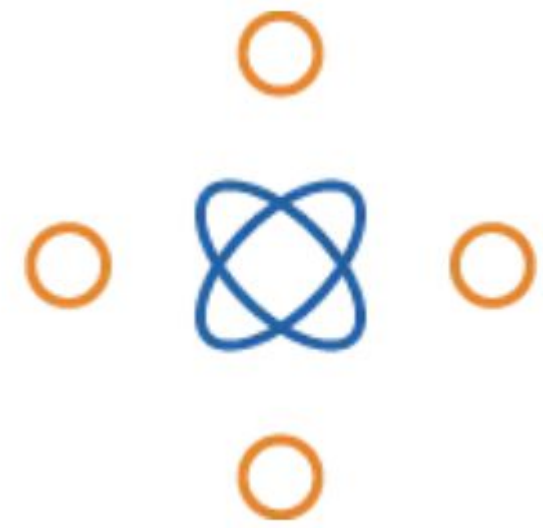
2010

From the high-energy physics compute grid (WLCG)



2024

To a multi-disciplinary, multi-technology infrastructure



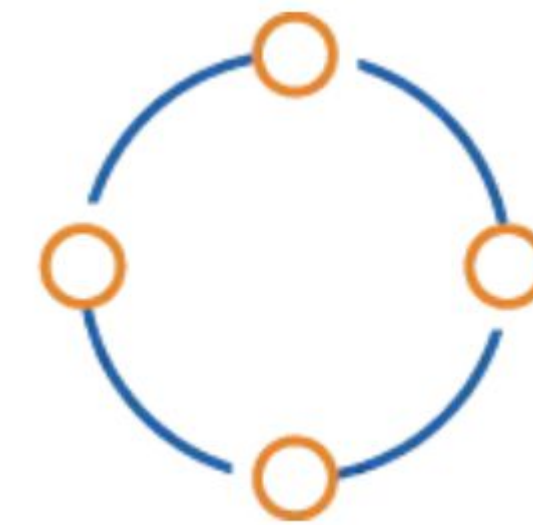
EGI Federation

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



EGI Foundation

EGI Foundation is a not-for-profit organisation created to coordinate and develop the EGI infrastructure and engage diverse users of our broad service portfolio.



EGI community

The EGI community is a community of researchers, developers, funders, technologists, dreamers and do-ers: anyone with a stake in advanced computing for research.



Vision

All researchers have seamless access to services, resources and expertise to collaborate and conduct world-class research and innovation

Mission of the EGI Federation

Deliver open solutions for advanced computing and data analytics in research and innovation

Mission of the EGI Foundation

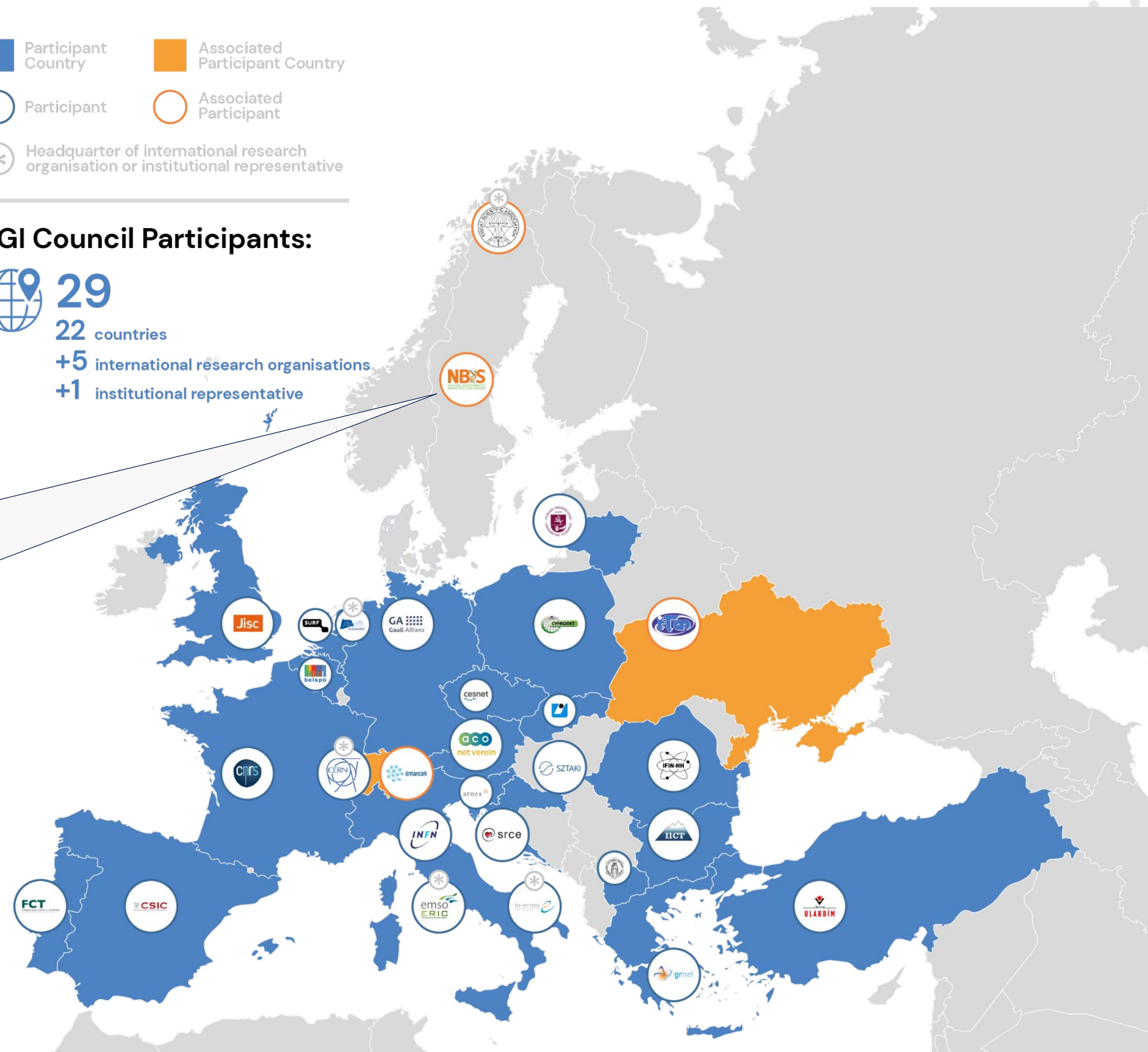
Enable the EGI Federation to serve international research and innovation together

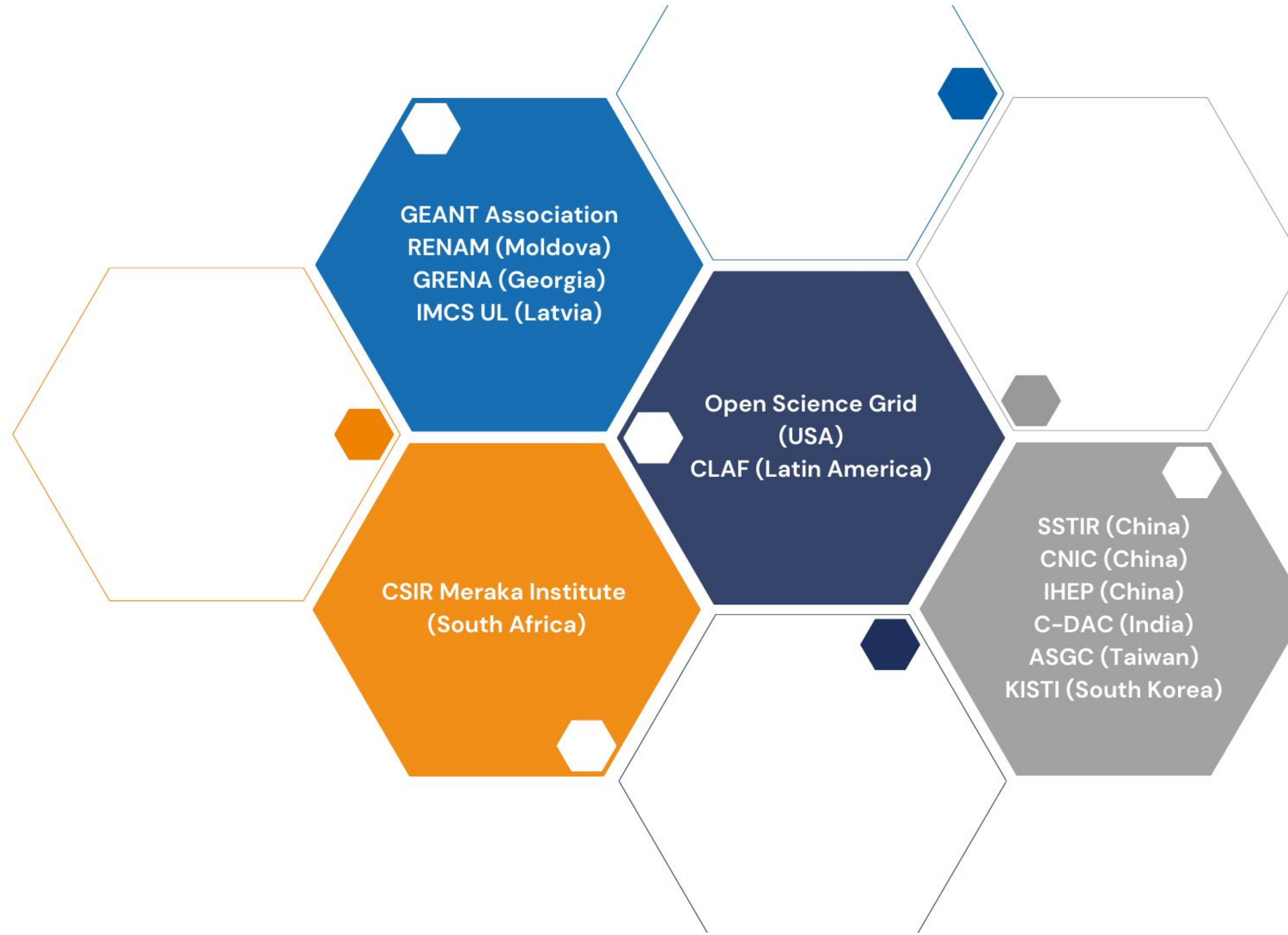
- Participant Country
- Associated Participant Country
- Participant
- Associated Participant
- Headquarter of international research organisation or institutional representative

EGI Council Participants:

29
22 countries
+5 international research organisations
+1 institutional representative

Plenary: A view from the bridge: a look at innovative practices in our community –
Wed 02, 09:00 CEST

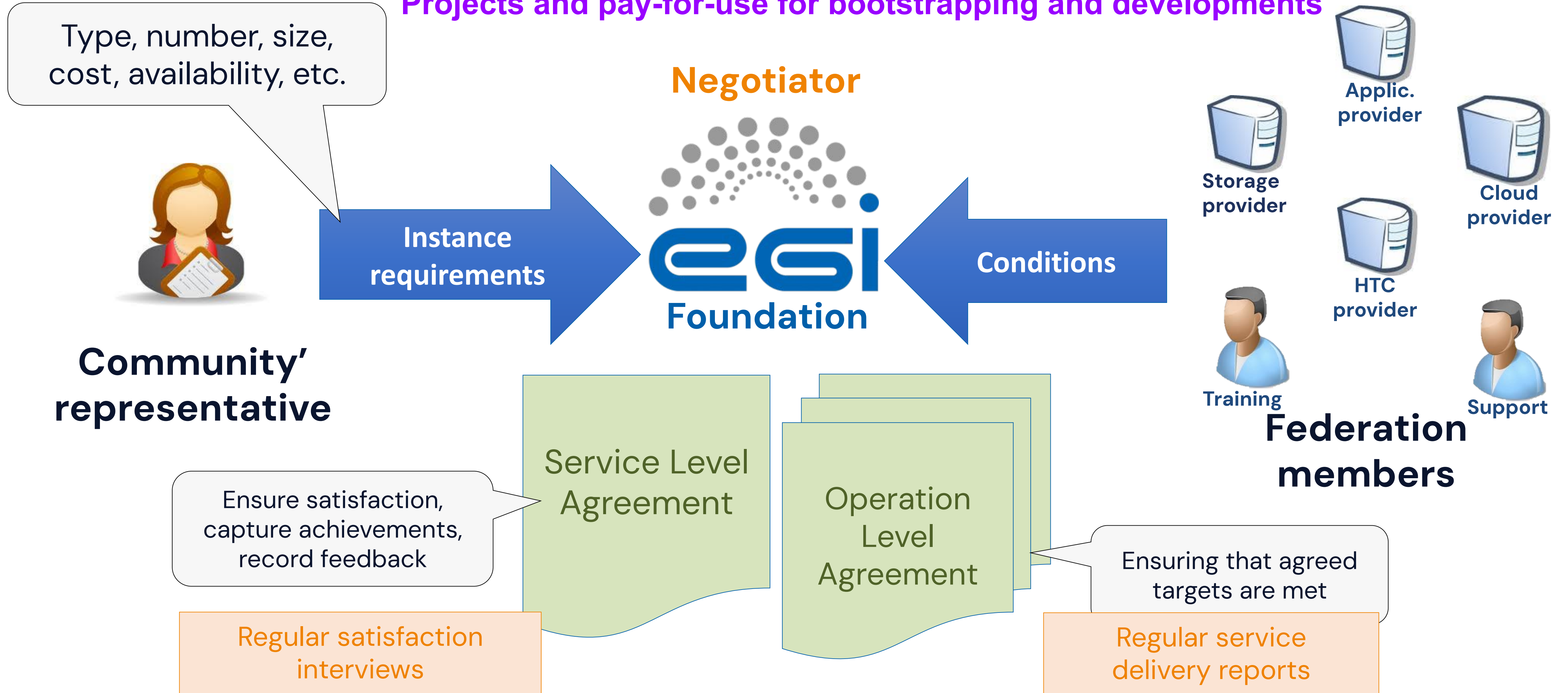




Session: Global perspectives on advancing Open Science with computational infrastructures – Wed 02, 11:00 CEST

How does EGI engage with communities?

**Sustainability comes from institutional commitments.
Projects and pay-for-use for bootstrapping and developments**





The EGI Access Call

<https://www.egi.eu/egi-access-call/>

Goal

The EGI Access Call offers access to:

- EGI services, resources and
- related user support and training.

Resources and services offered via the EGI Access Call are:

- **Sponsored** by various national funding agencies, and
- **free to access** for the use cases selected through the call.

[Submit your application now](#)

Read success stories [here](#)

✓ Wide access

Users can freely access scientific data and digital services provided by EGI resource providers

Example:

- EGI Notebooks open instance
- EGI Cloud pool for application piloting

✓ Policy-based

Users are granted access based on policies defined by the EGI resource providers or by the EGI Foundation

Example:

- Biomed HTC pool for life sciences
- INFN-Bari (IT), IN2P3-IRES (FR), ULAKBIM (TR) provide Clouds for the National Bioinformatics Infrastructure of Sweden

✓ Market-driven

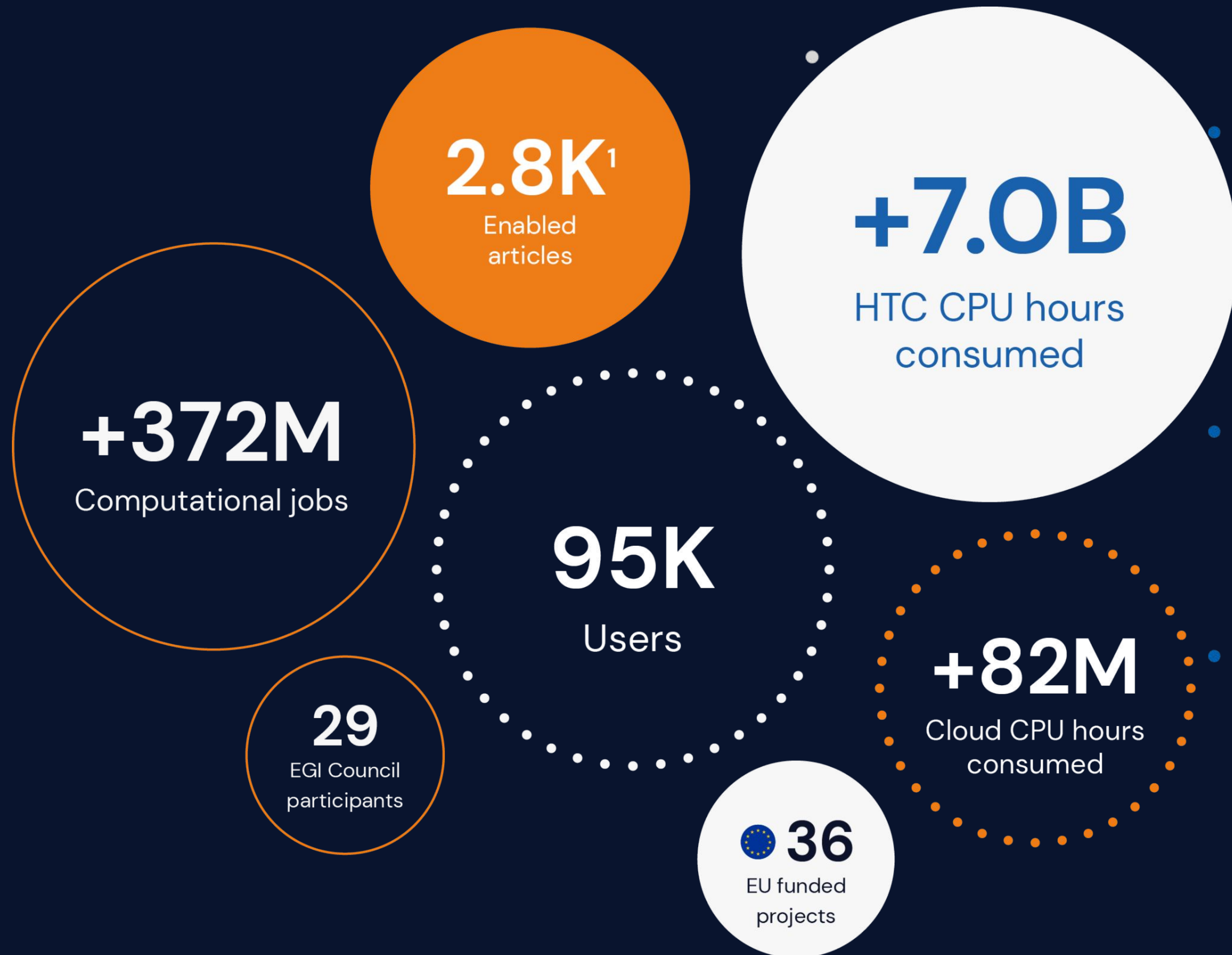
Users can negotiate a fee to access services either directly with EGI resource providers or indirectly with the EGI Foundation

Example:

- FitSM training by EGI Foundation
- 4 EGI Cloud providers deliver to Exprivia



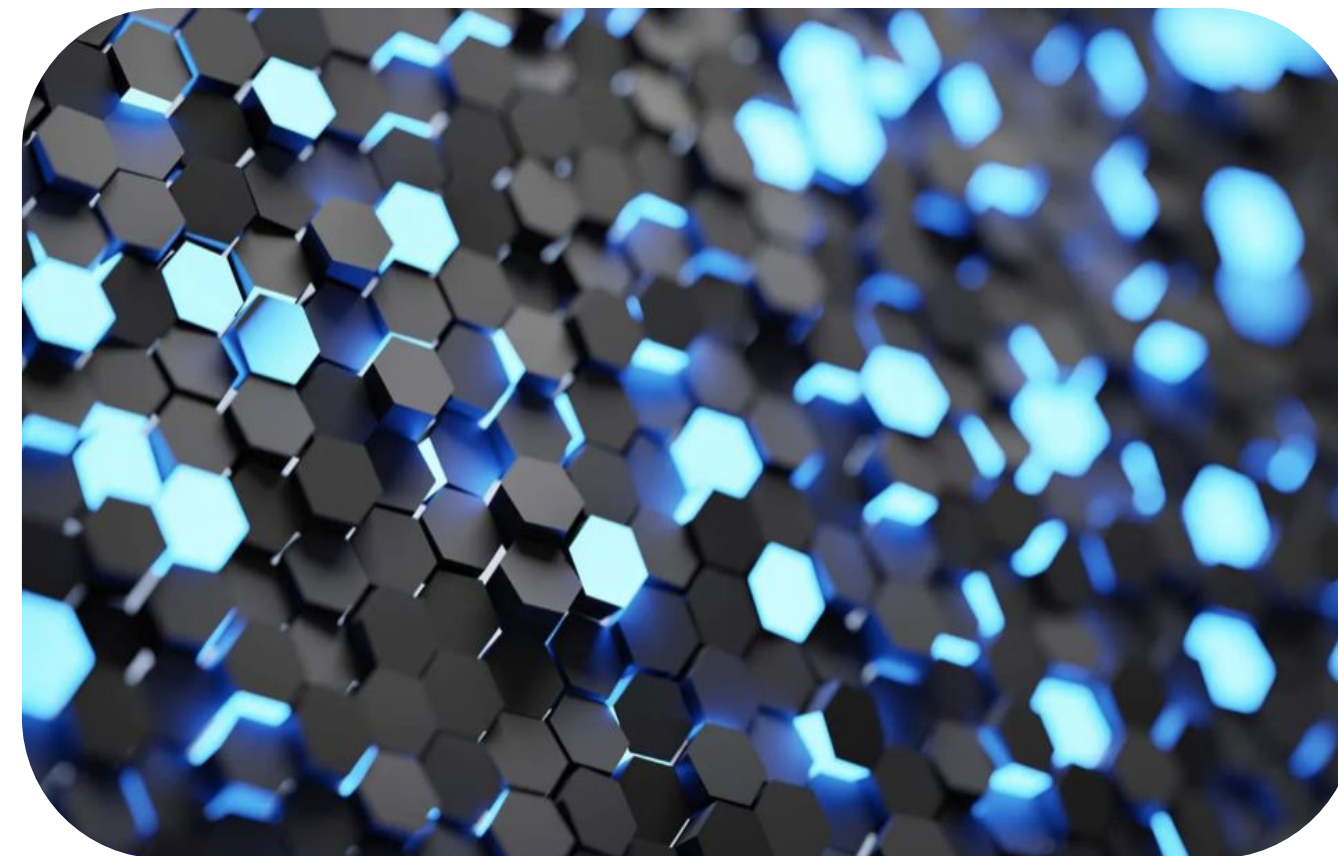
EGI in Numbers (annual statistics 2024)





Services for Research

Our large-scale computing and data analytics services are helping scientists to accelerate their research.



Services for Federation

Our internal services provide tools for coordination of the EGI Federation, improving how we work together.



Services for Business

We help companies to exploit and provide services and resources for compute- and data-intensive research and innovation.

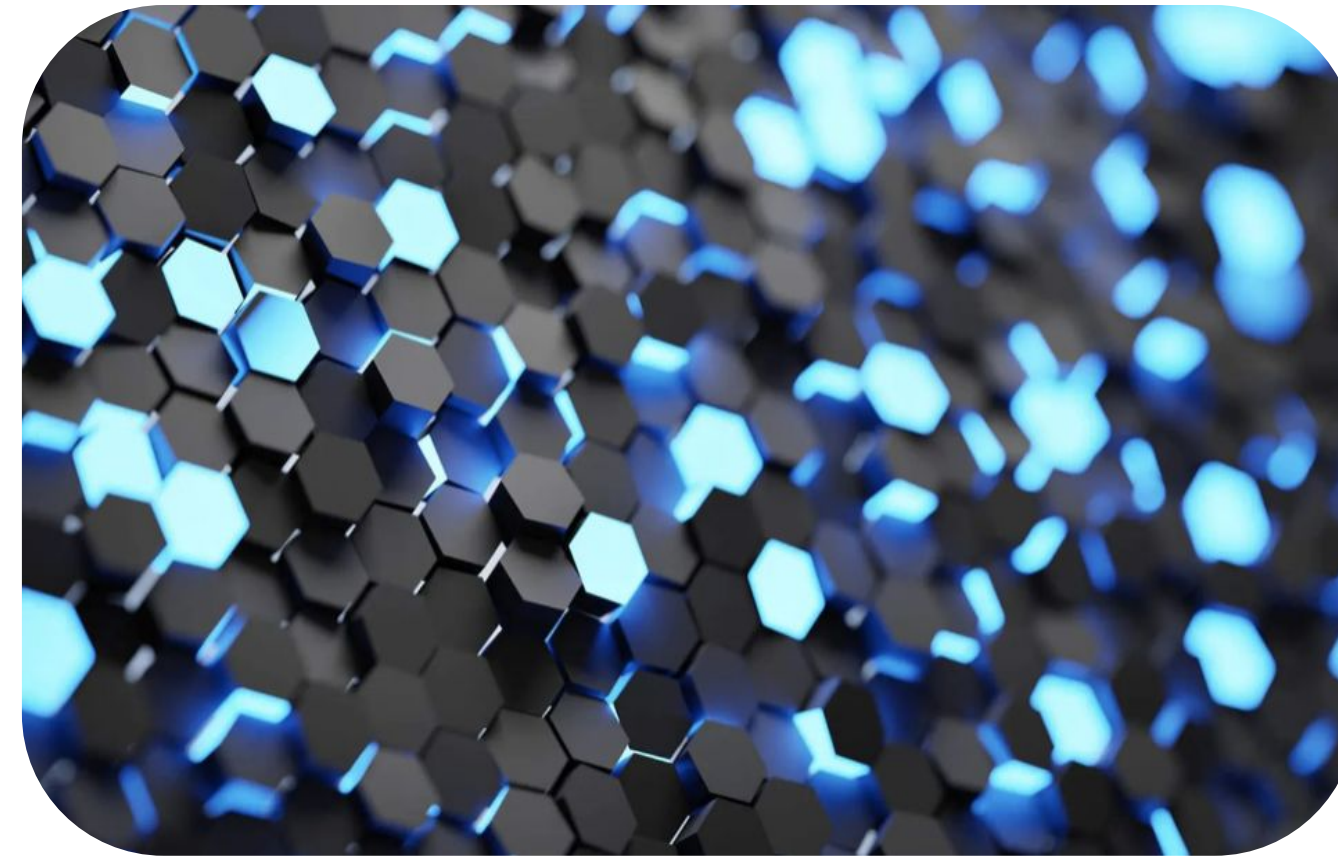


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The EGI Services for Research Portfolio

<https://www.egi.eu/services/research/>

Compute



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

Compute Orchestration



Workload Manager

Manage computing workloads in an efficient way



Infrastructure Manager

Use cloud orchestrator to deploy and configure complex virtual infrastructures

Applications



Notebooks

Create interactive documents with live code, visualisations and text



Replay

Reproduce and share research on a notebooks-based platform

Storage & Data



Datahub

Access key scientific datasets in a scalable way



Data Transfer

Transfer large sets of data from one place to another



Online Storage

Store, share and access your files and their metadata on a global scale

Security & Identity



Check-in

Login with your own credentials



Secrets Store

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

Training



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

User documentation: <https://docs.egi.eu>



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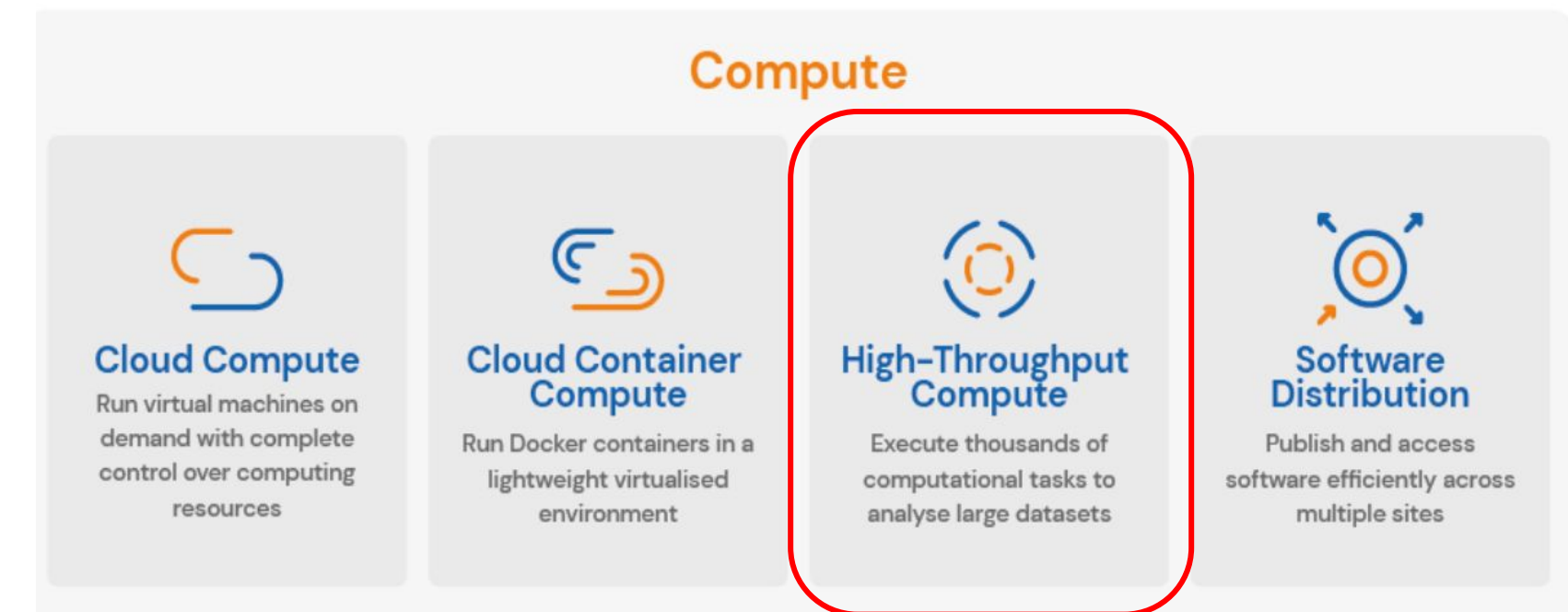
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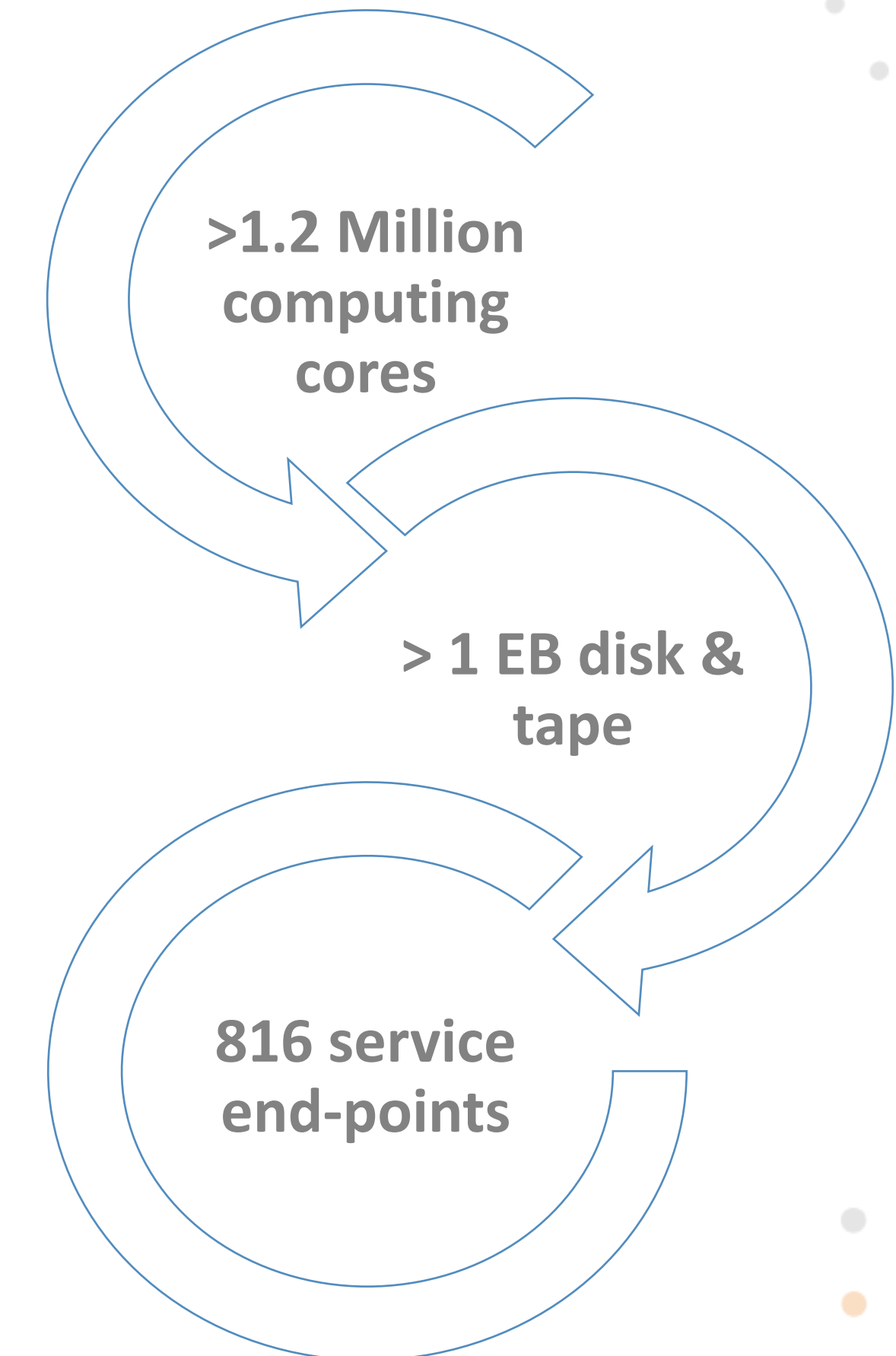


The EGI HTC Federation

<https://www.egi.eu/service/high-throughput-compute/>



200+ High Throughput Compute sites
(ARC-CE, HTCondorCE)



WeNMR is a worldwide e-infrastructure for Nuclear Magnetic Resonance (NMR) and Structural Biology

Mission:

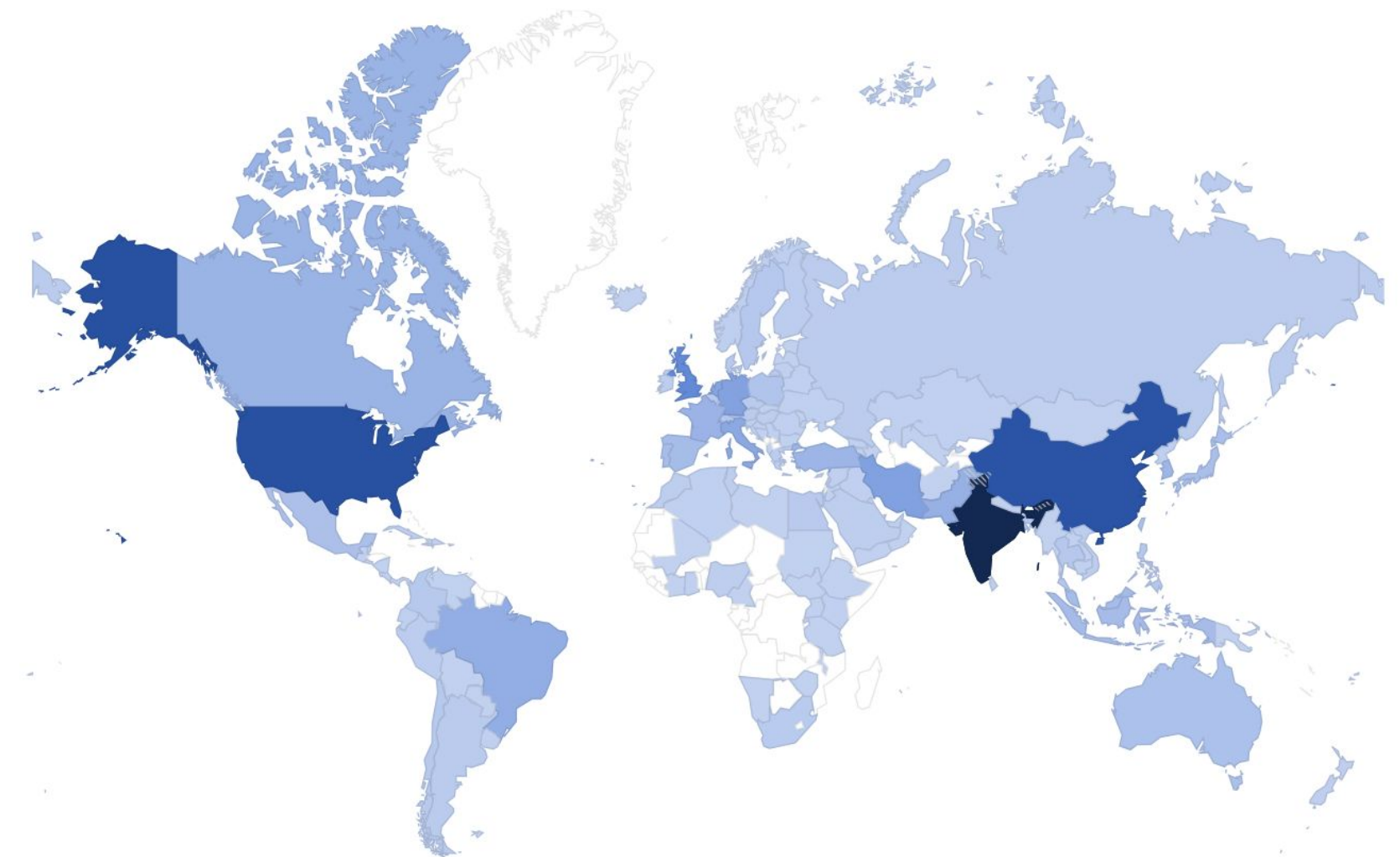
- Understand life at molecular level
- Engineer better molecules for material, health or food applications
- Obtain starting point for drug design to combat diseases

Statistics

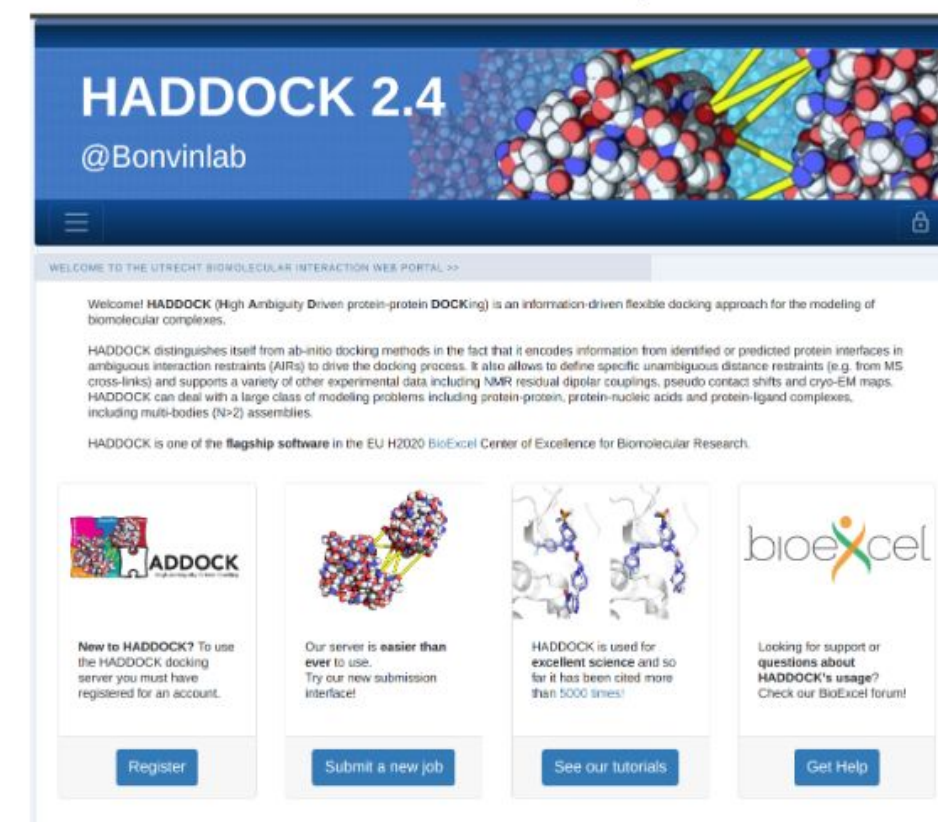
- The **HADDOCK** web portal is being used by **49,727** users
- **60,942,919** HTC CPU/h consumed since 2010

Read the full story [here](#)

Worldwide User Map
(updated every 30 min)



7 application portals



Pre-processing
+
Input files
packaging

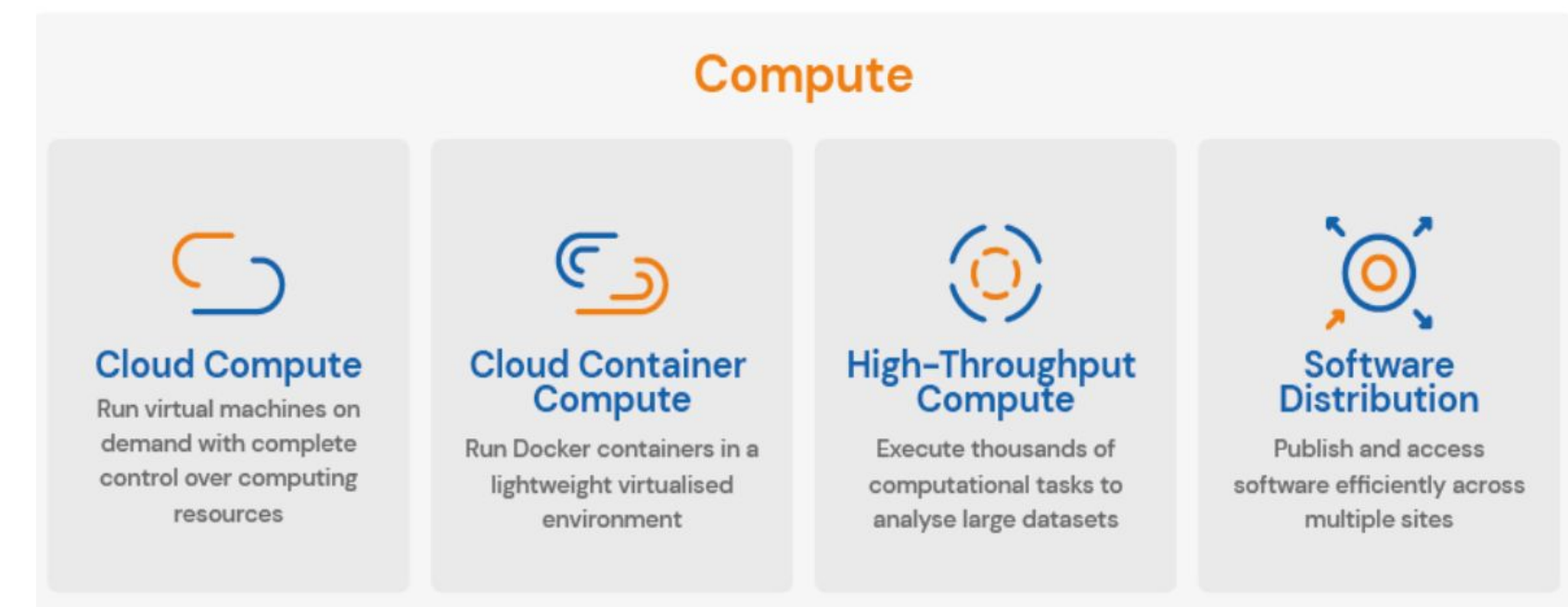


CPU-calculation
(HTC, Cloud)



Post-processing
+
Results
formatting

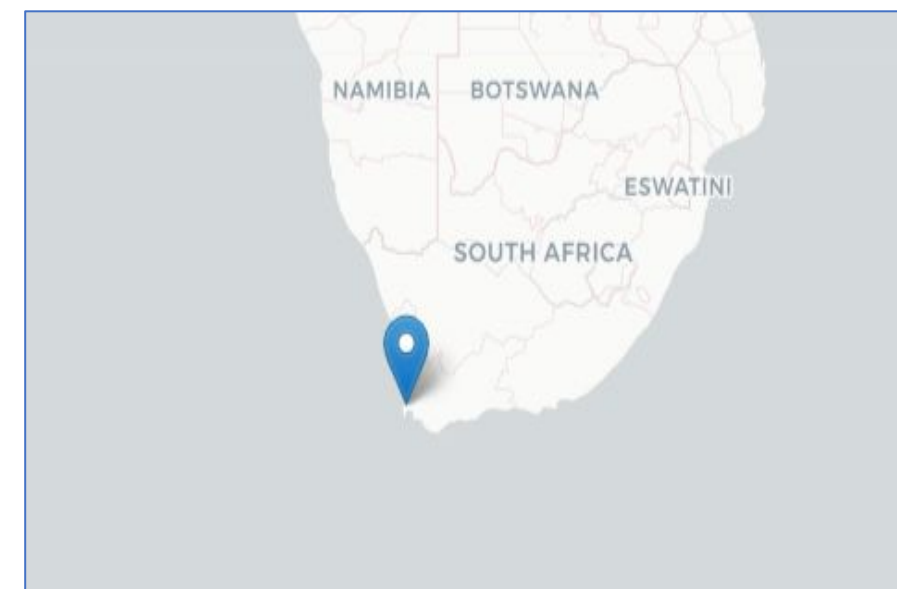
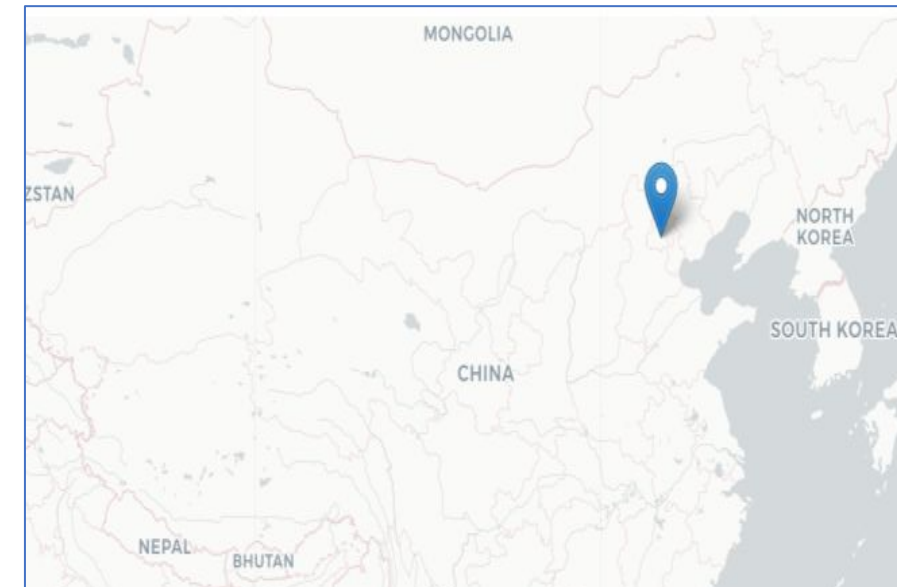
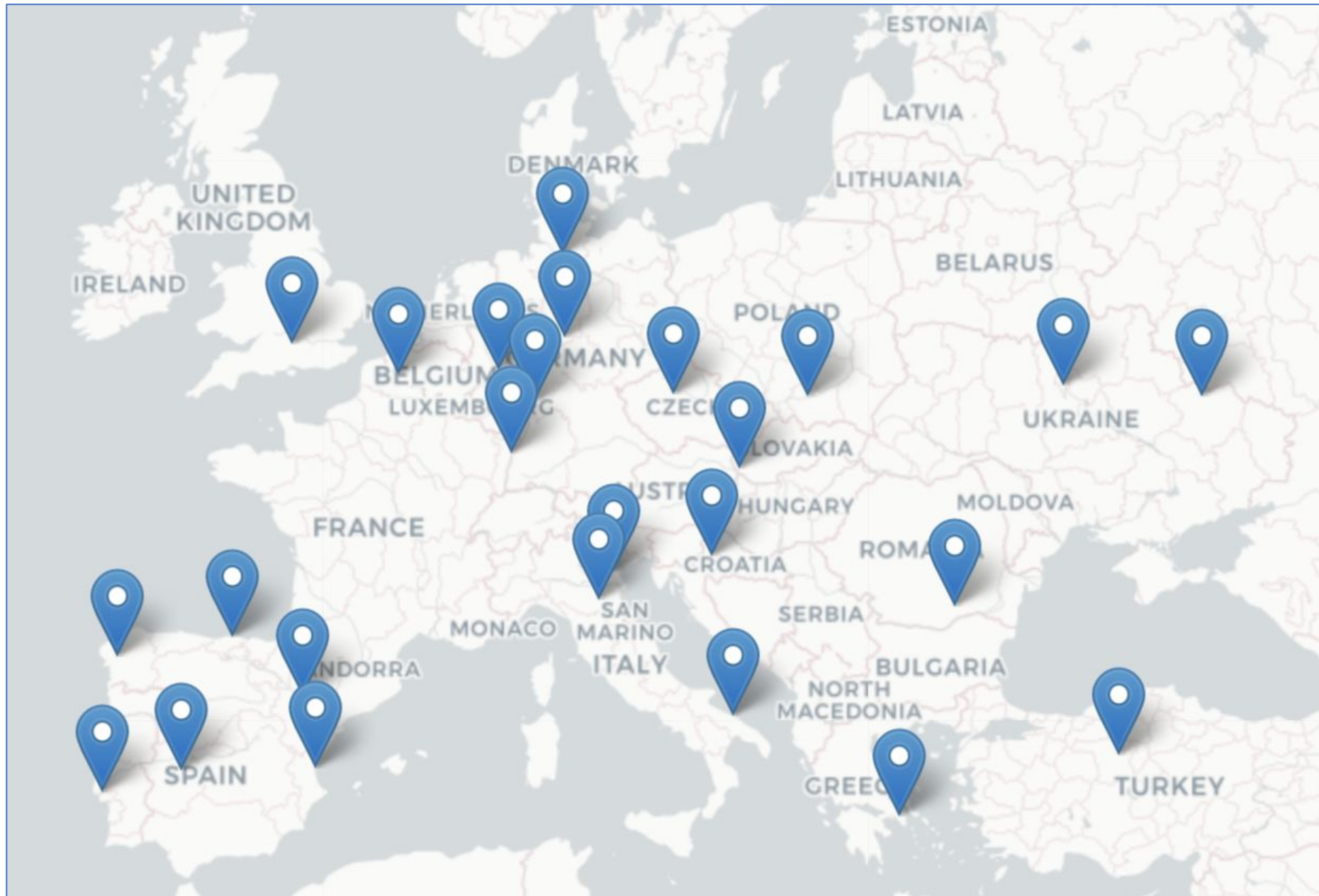
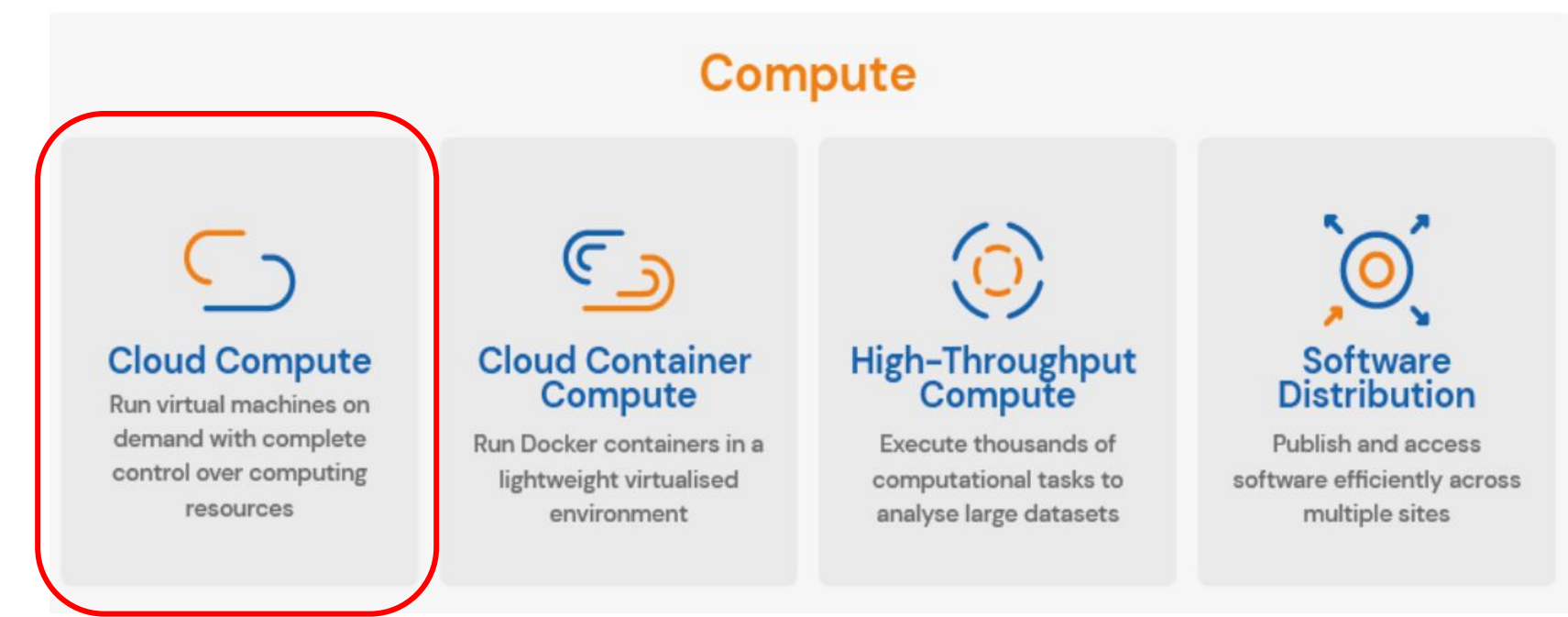
- Pilot service offer that brings EuroCC HPC providers into the EGI federation
- Access to cloud IaaS infrastructures and HPC
 - Hosting long-running services as cloud VM, data transfer using cloud storage, spawning jobs to HPC as needed
 - Access HPC with Check-in identities
- **4 initial providers:**
 - LIP/INCD (PT),
 - CESGA (ES),
 - TUBITAK (TR),
 - IICT-BAS (BG)



SESSIONs:

Bridging the Gap: Integrating the HPC Ecosystem – Tue 01, 16:45 CEST

Open meeting: EGI Federated Cloud community working meeting – Wed 02, 15:15 CEST



- Operational since **2013**
- **26** Cloud Providers (OpenStack)
- Providing different functionalities and more dynamic platforms for scientists
- **41,379,959** Cloud CPU/h consumed in **2024**
- **228** Virtual Organisations supported (Virtual Organisation = Resource pool)
- Access via GUI, CLI, OpenStack native and libcloud APIs, Terraform

Session: Open Meeting: EGI Federated Cloud community – Thu 03, 15:15 CEST



Neurodesk

Facilitate reproducible Neuroimaging research



Mission

- Reproducibility of neuroimaging research is often an hot topic as it involves the execution of complex analysis pipelines that rely on specific software version

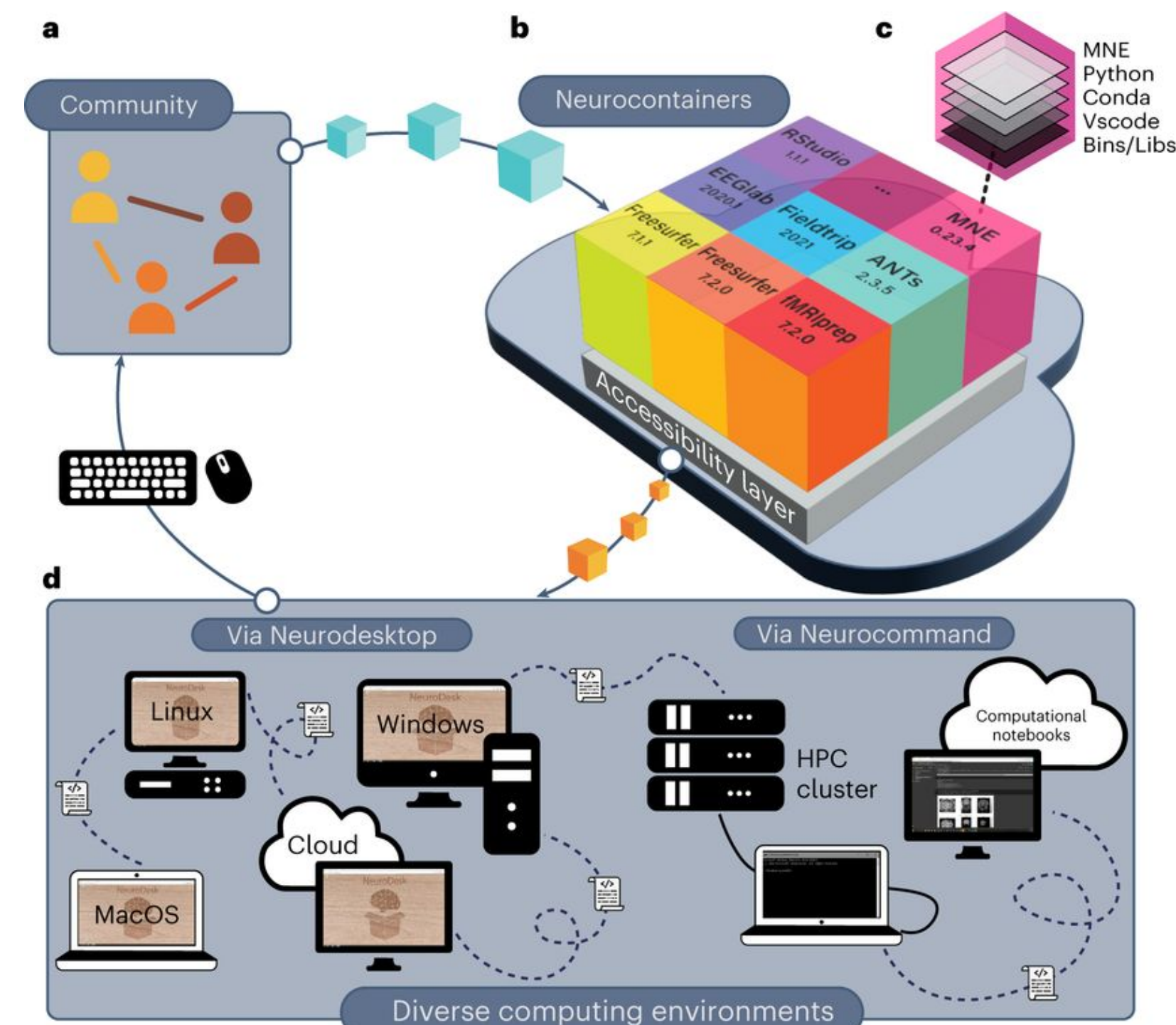
Solution

- Neurodesk provides a containerised data analysis environment.

Statistics

- The Neurodesk platform currently serves around **1,000** European users per month
- **300 TB** of datasets replicated in EGI Infrastructure
- Deployed 1 Play server in EGI (CESNET)

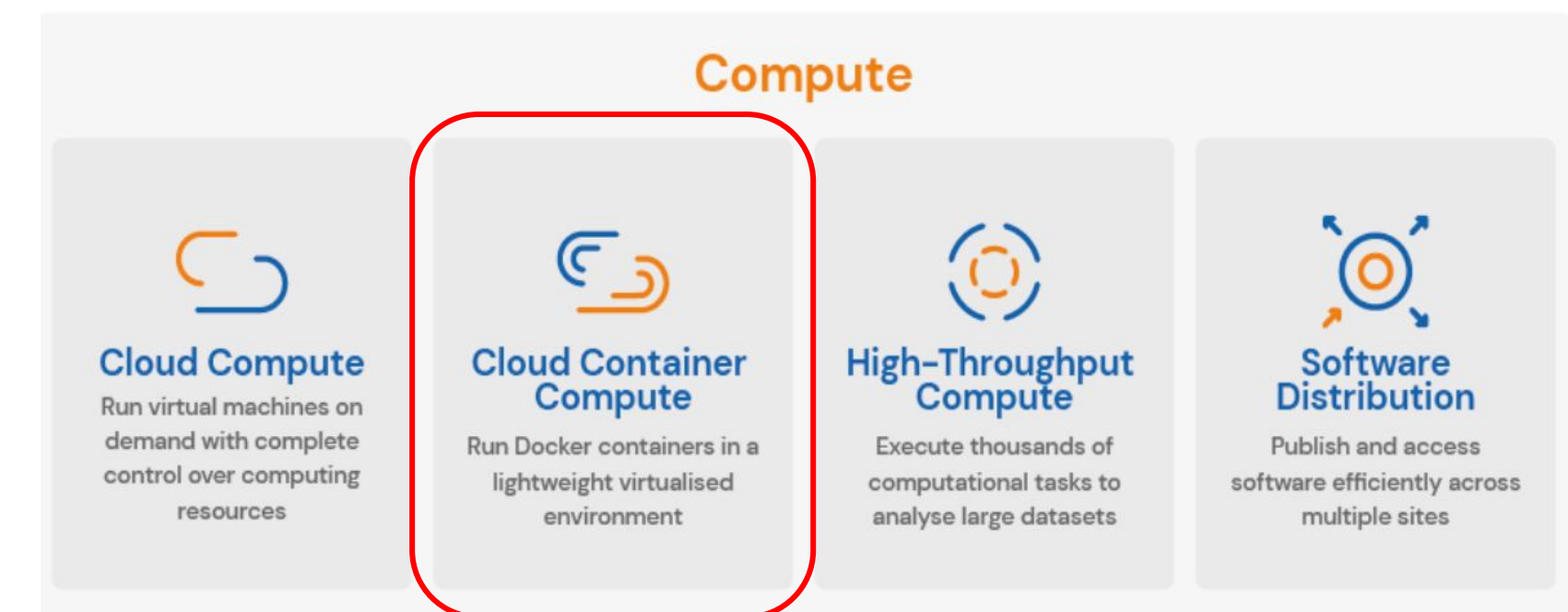
Read the full story [here](#)



EGI provides:

- Check-in
- Notebook
- Cloud Compute
- Online Storage
- Software Distribution





Self-deployed by users

- Spin up some VMs and deploy Kubernetes (works with existing tooling targeting OpenStack)

Automated deployment with Infrastructure Manager (IM)

- Select site, size of VMs and go

Rancher-based access to managed clusters (under development)

- Rancher integrated with EGI Check-in
- Access to pre-configured clusters managed by expert operators

DEMO and POSTER: Rancher: the EGI container execution platform – Wed 02, 14:30 CEST

A community for open, reproducible, scalable geoscience.

Mission

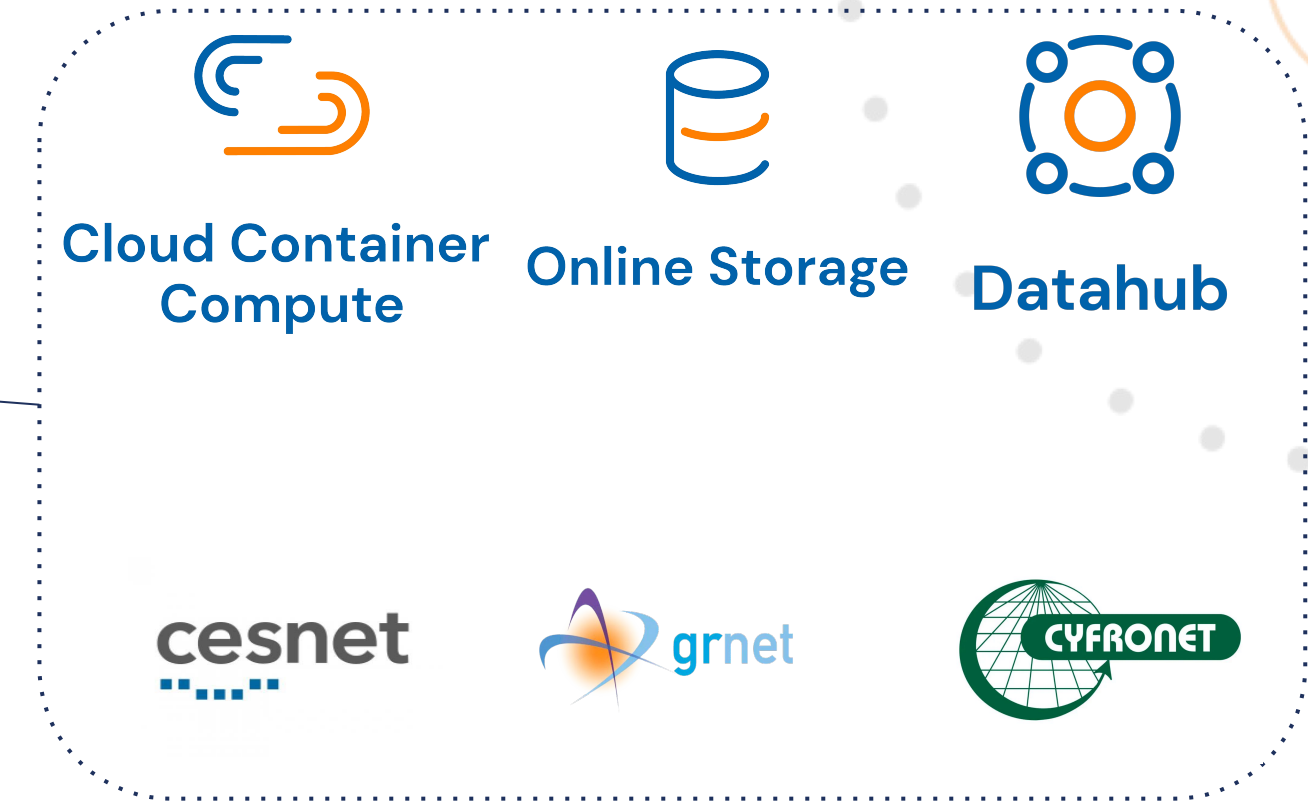
- Pangeo is a community promoting open, reproducible, and scalable science.

Solution

- Work on a deployment of the Pangeo software stack in Europe (EGI), and
- Foster collaboration around best practices for open, reproducible, and open science

Statistics

- **100+** researchers trained until today
- **6M+ CPUh** consumed in March 2022 – September 2024



Deployed dask/JupyterHub in a virtual K8s cluster on top of OpenStack with Rancher





The EGI Services for Research Portfolio

<https://www.egi.eu/services/research/>

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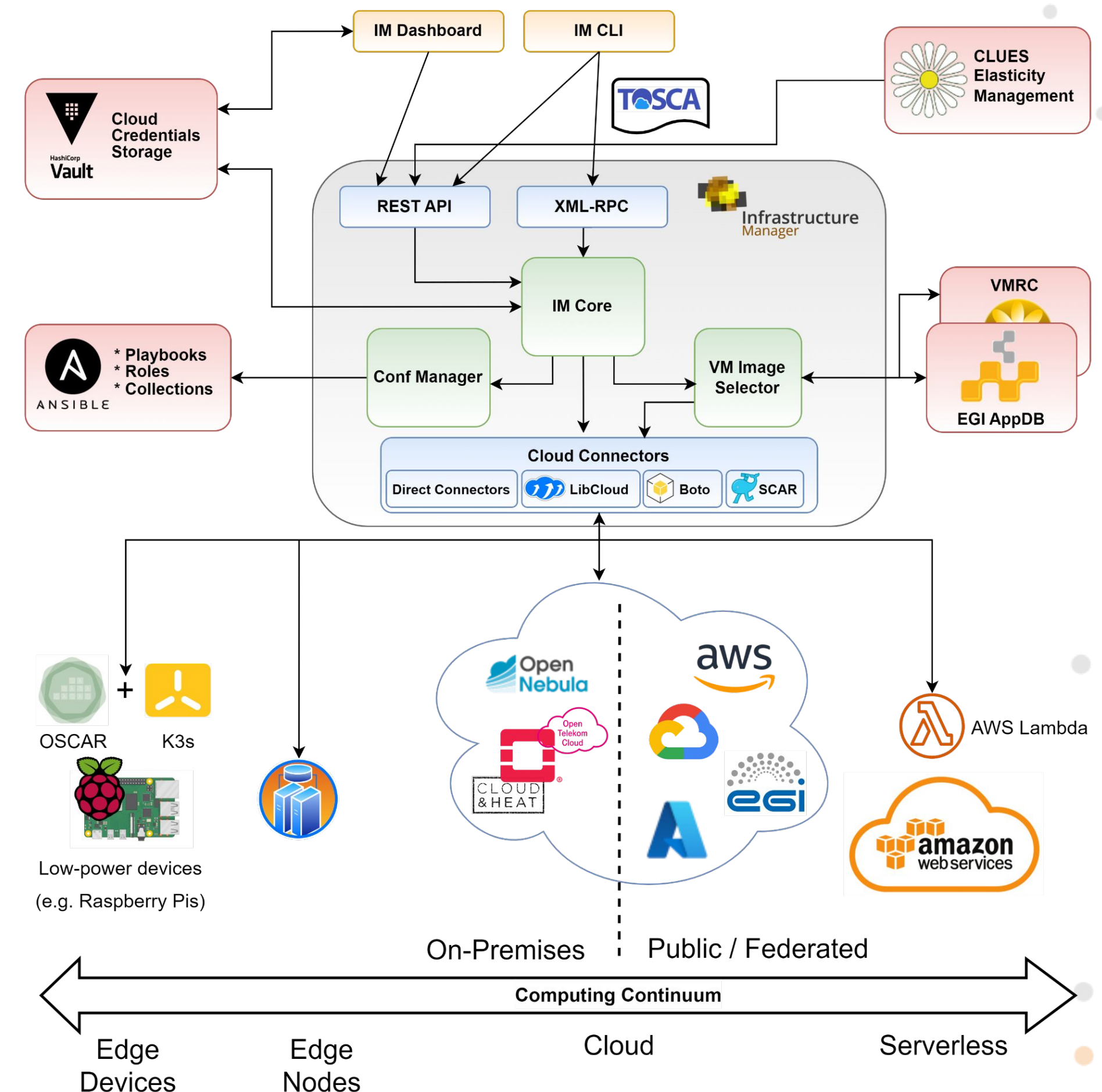
Training Infrastructure

Dedicated computing and storage for training and education

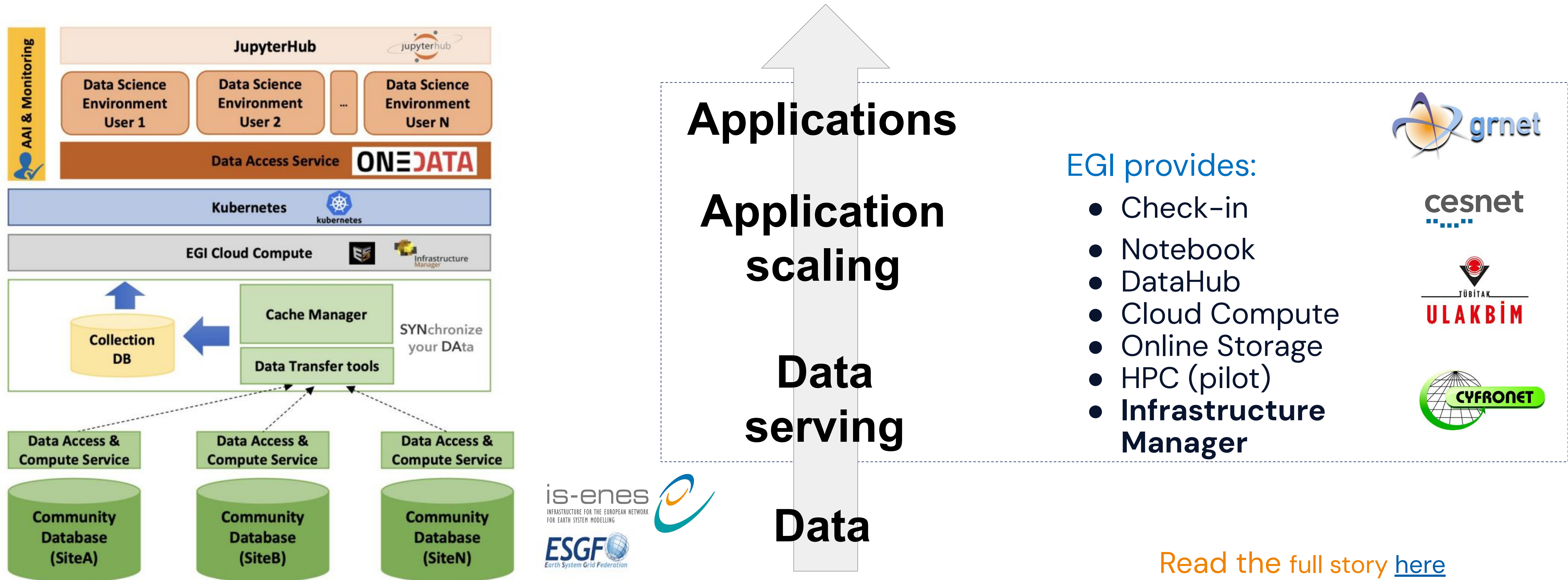
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IM deploys virtual infrastructures on the Cloud

- **Automates** the deployment, configuration, software installation, monitoring and update of virtual infrastructures
- **Infrastructure as Code (IaC)** using **RADL/TOSCA** for infrastructure description & **Ansible** for contextualization
- Automated elasticity with **CLUES**
- Wide variety of back-ends from edge to serverless, making applications **Cloud agnostic**



Open, scalable and cloud-enabled **data space** for **climate data analysis**



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- Cloud Compute
- Online Storage
- HPC (pilot)
- **Infrastructure Manager**

[Read the full story here](#)

TALK: ENES Data Space: an EOSC Beyond thematic node for the climate community – Wed 02, 15:00 CEST
 Session: Empowering Open Science: EGI Community's Impact on EOSC



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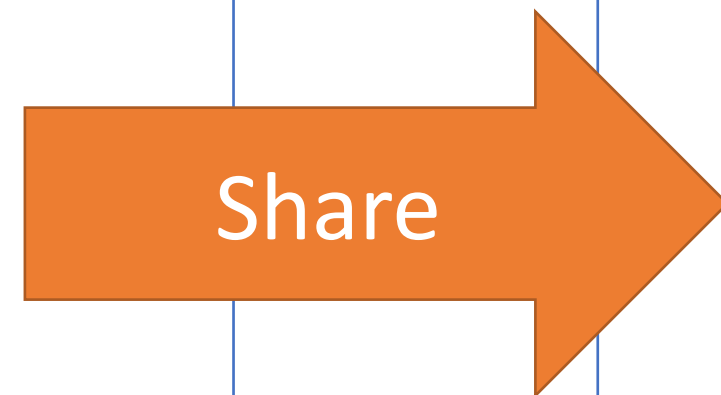
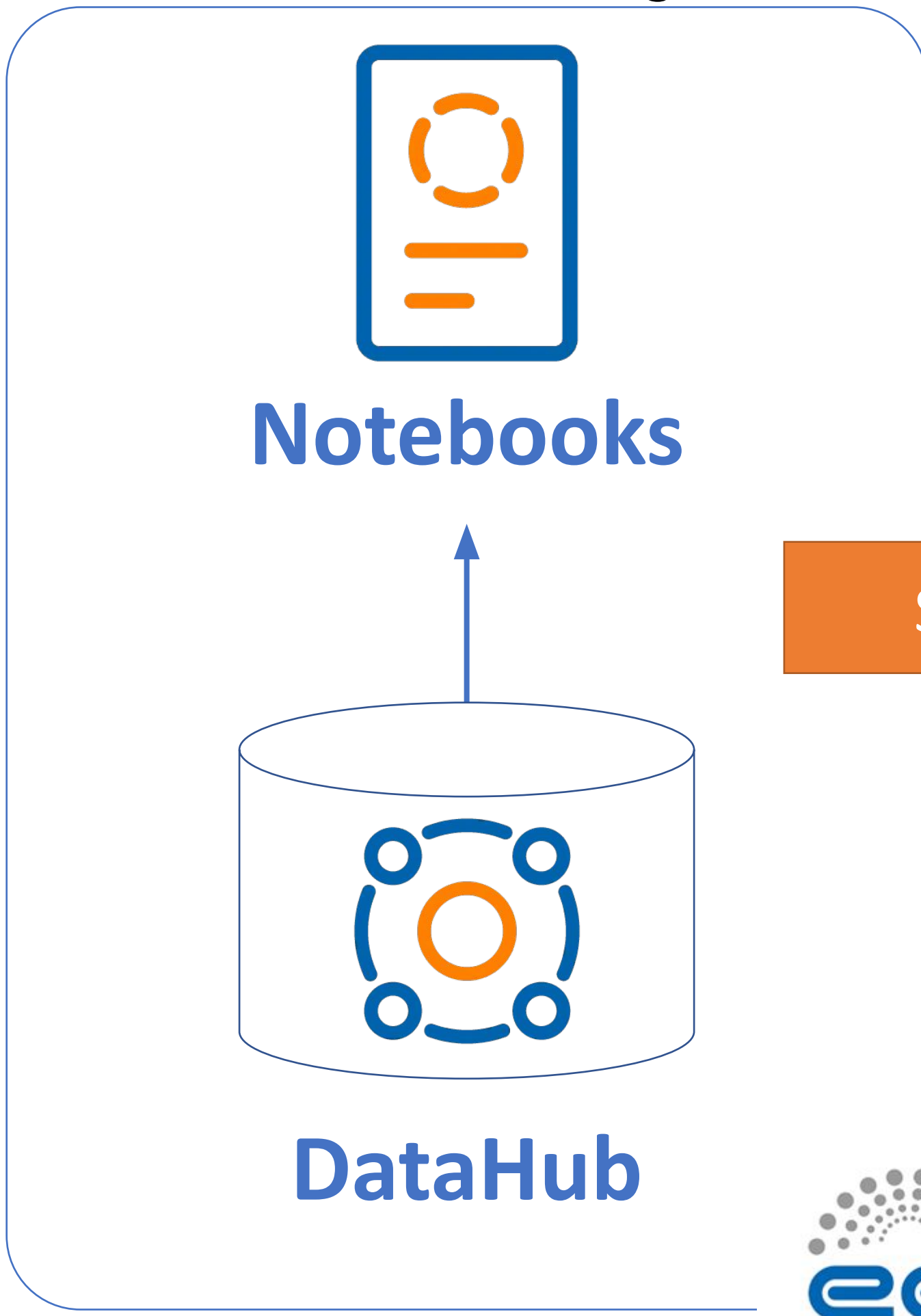
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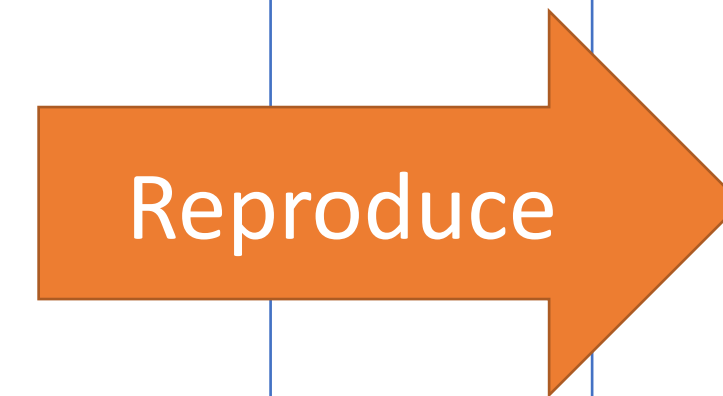
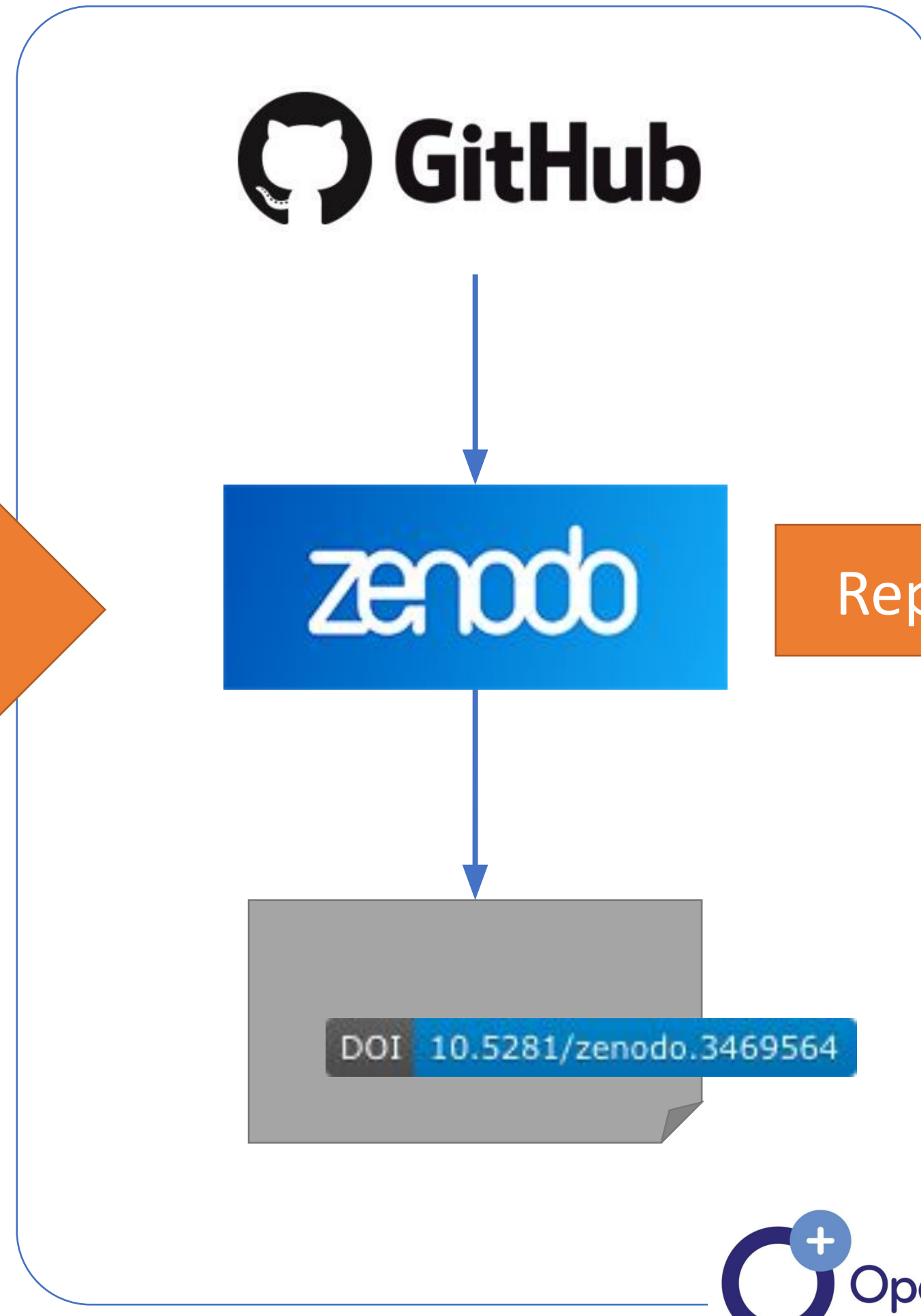
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Scientific reproducibility with EGI Notebooks and Replay services

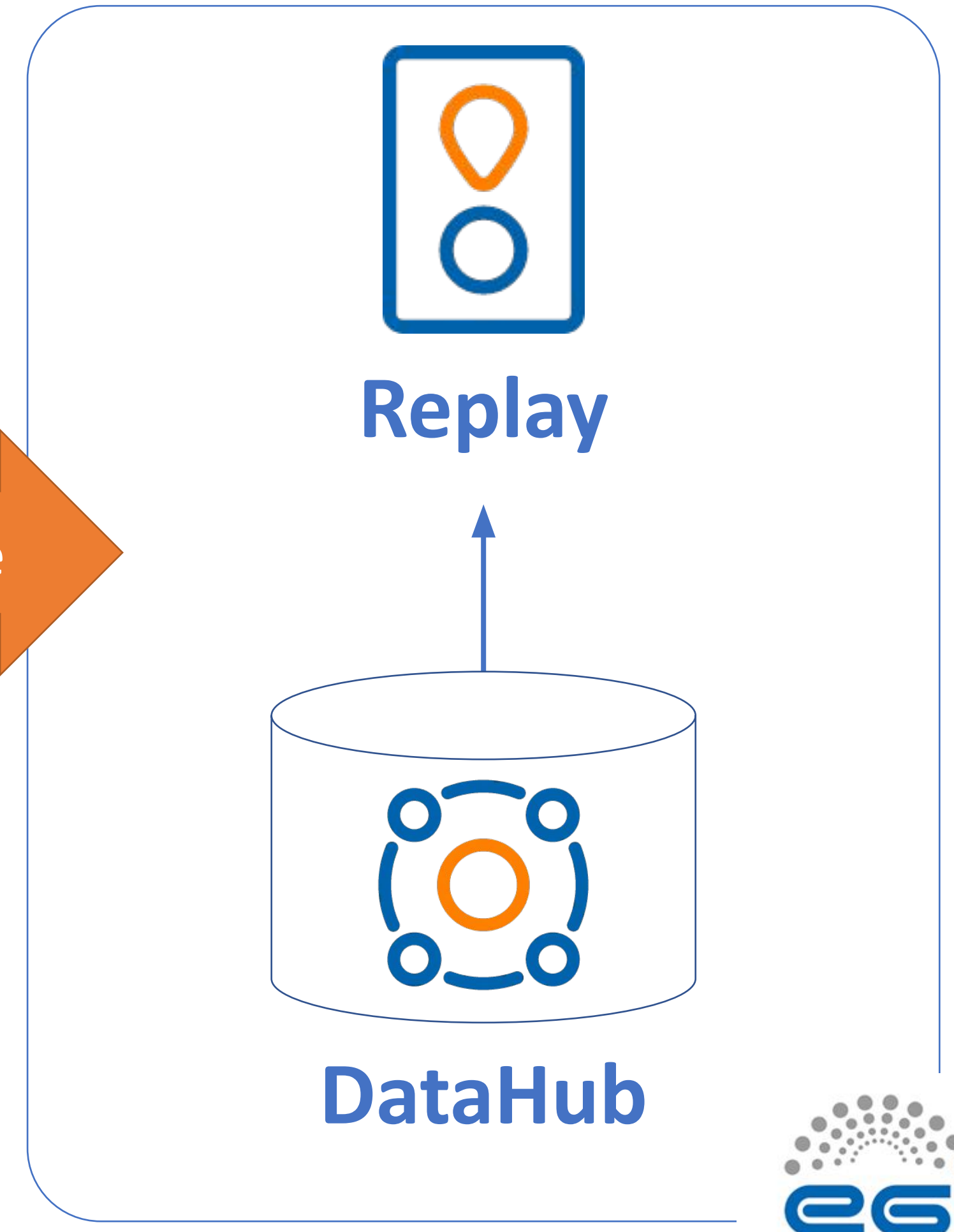
Develop processing application with reference to big data



Share application with a DOI



Re-run application, reuse data



Federated cloud and storage

Federated cloud and storage



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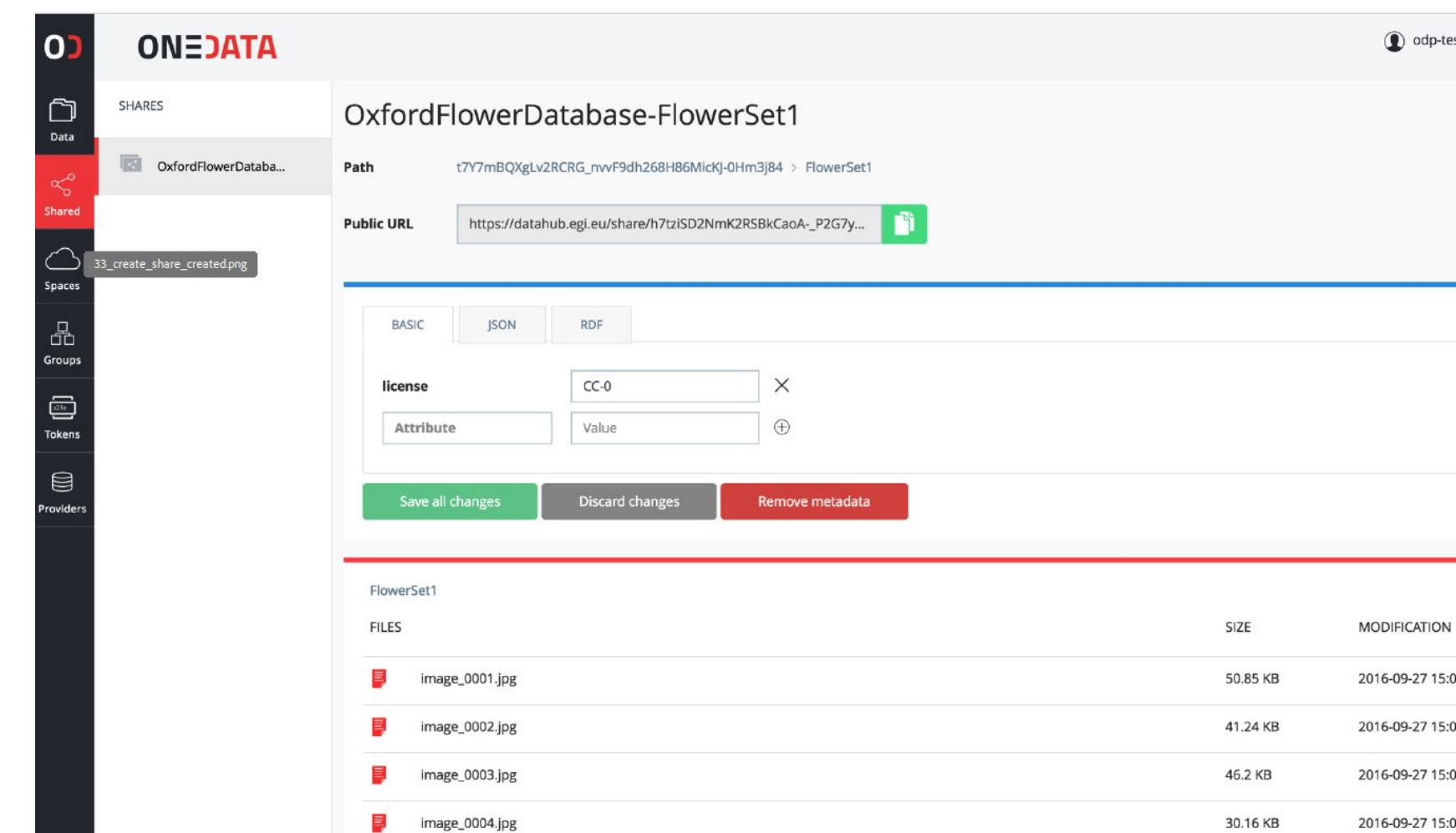
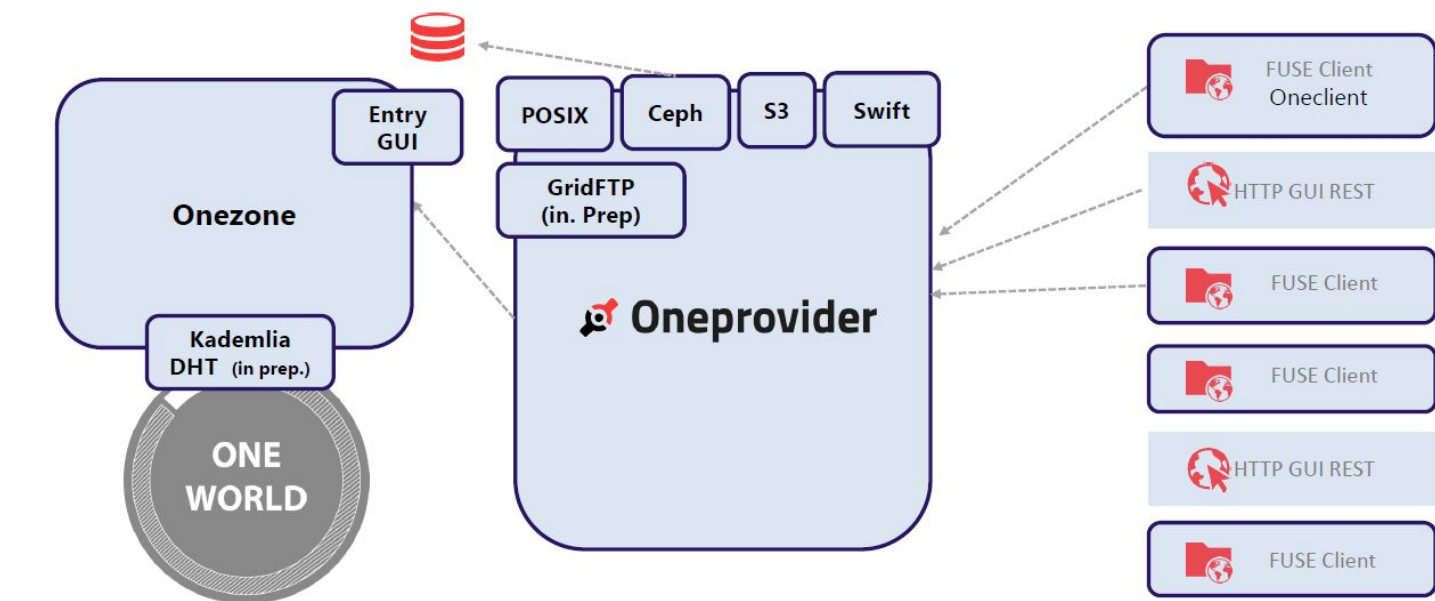
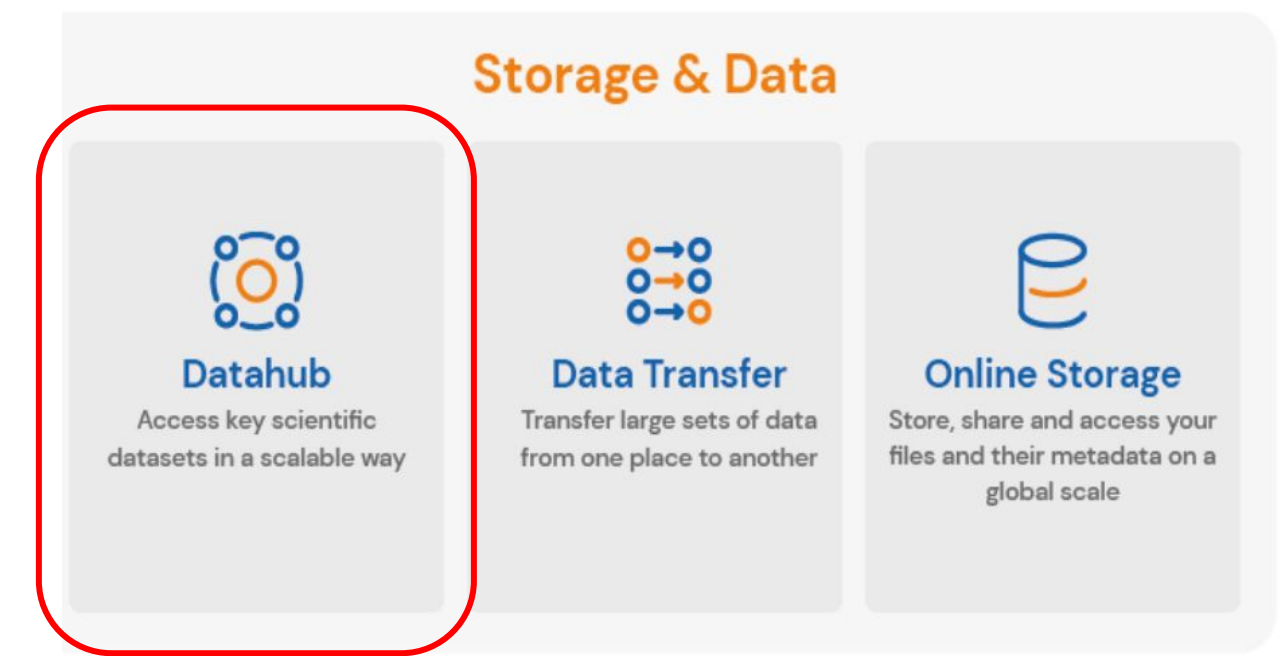


EGI DataHub

<https://www.egi.eu/service/datahub/>

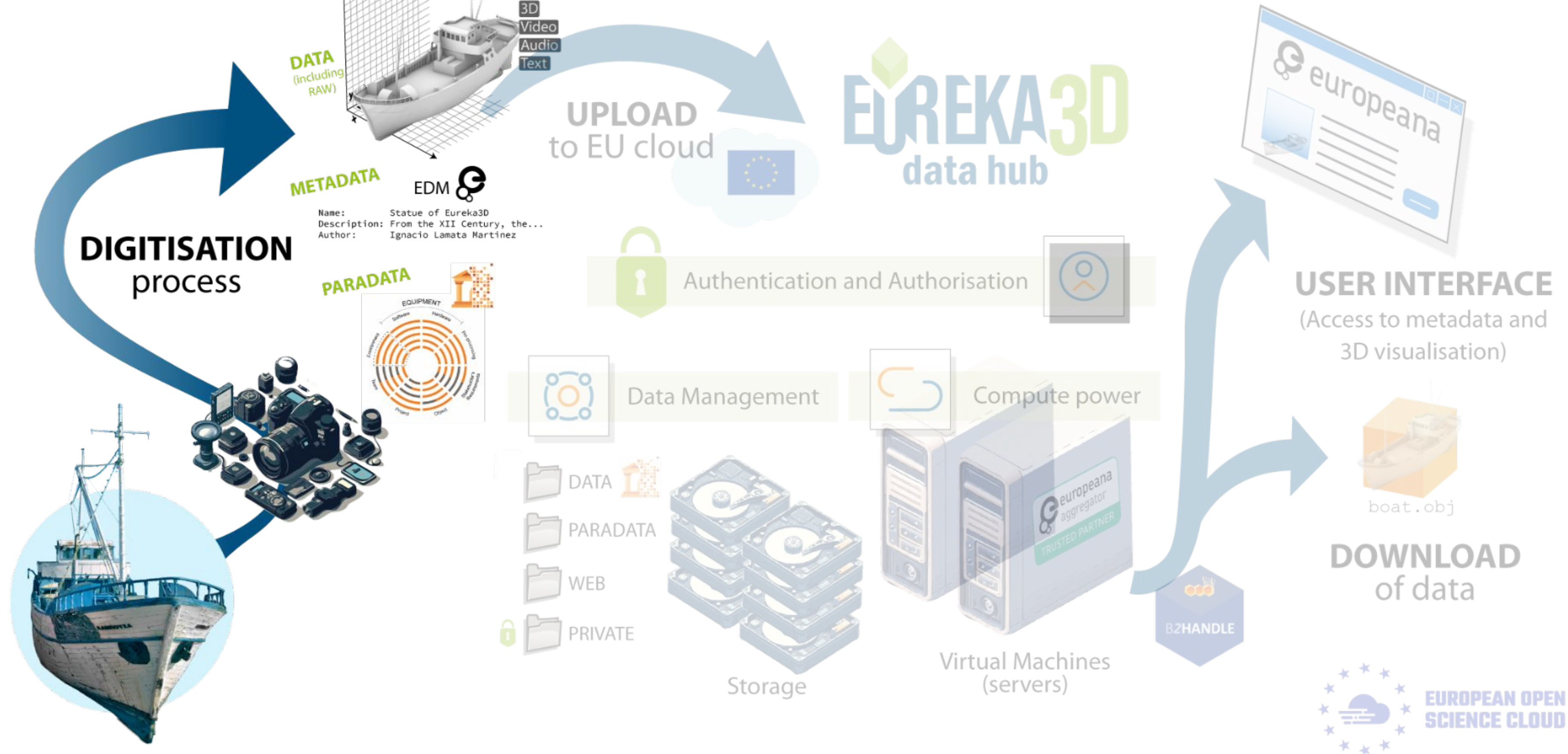
DataHub is a data management service that supports efficient data exploitation, data publishing and data sharing

- Based on OneData.
- Datasets can be stored in **distributed nodes** transparently for the user.
- Different **types of storage** virtualised (S3, POSIX, Ceph, OpenStack Swift...).
- **Metadata management** for files and directories.
- **GUI** and **API** to query files by metadata, time, owner etc.
- Automatic retrieval of **PIDs** for open data.
- Data access **permissions** based on ACL and others.

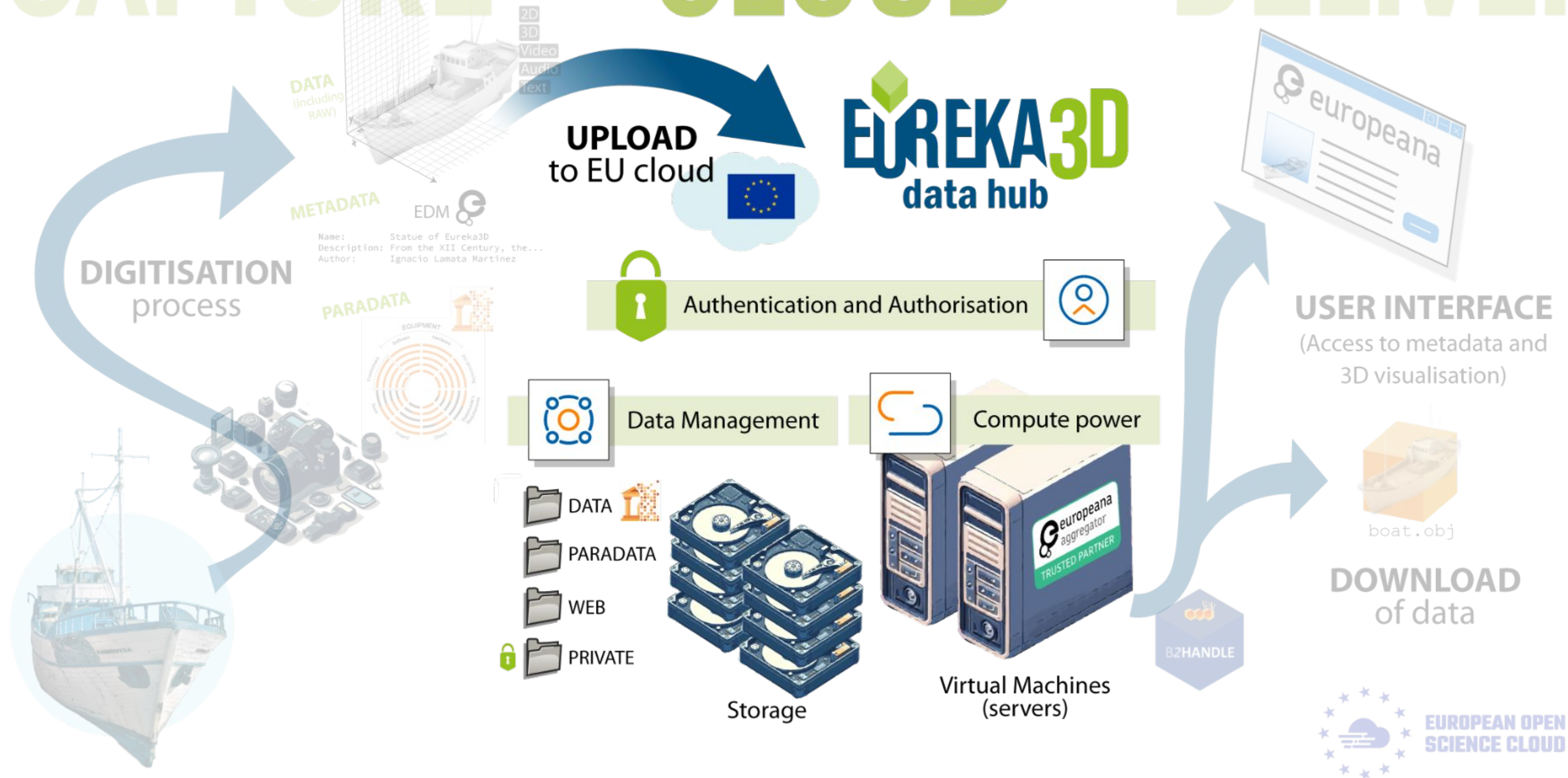


DEMO and Poster: Running Multi-Cloud Workloads on Distributed Datasets with Onedata – Wed 02, 14:30 CEST

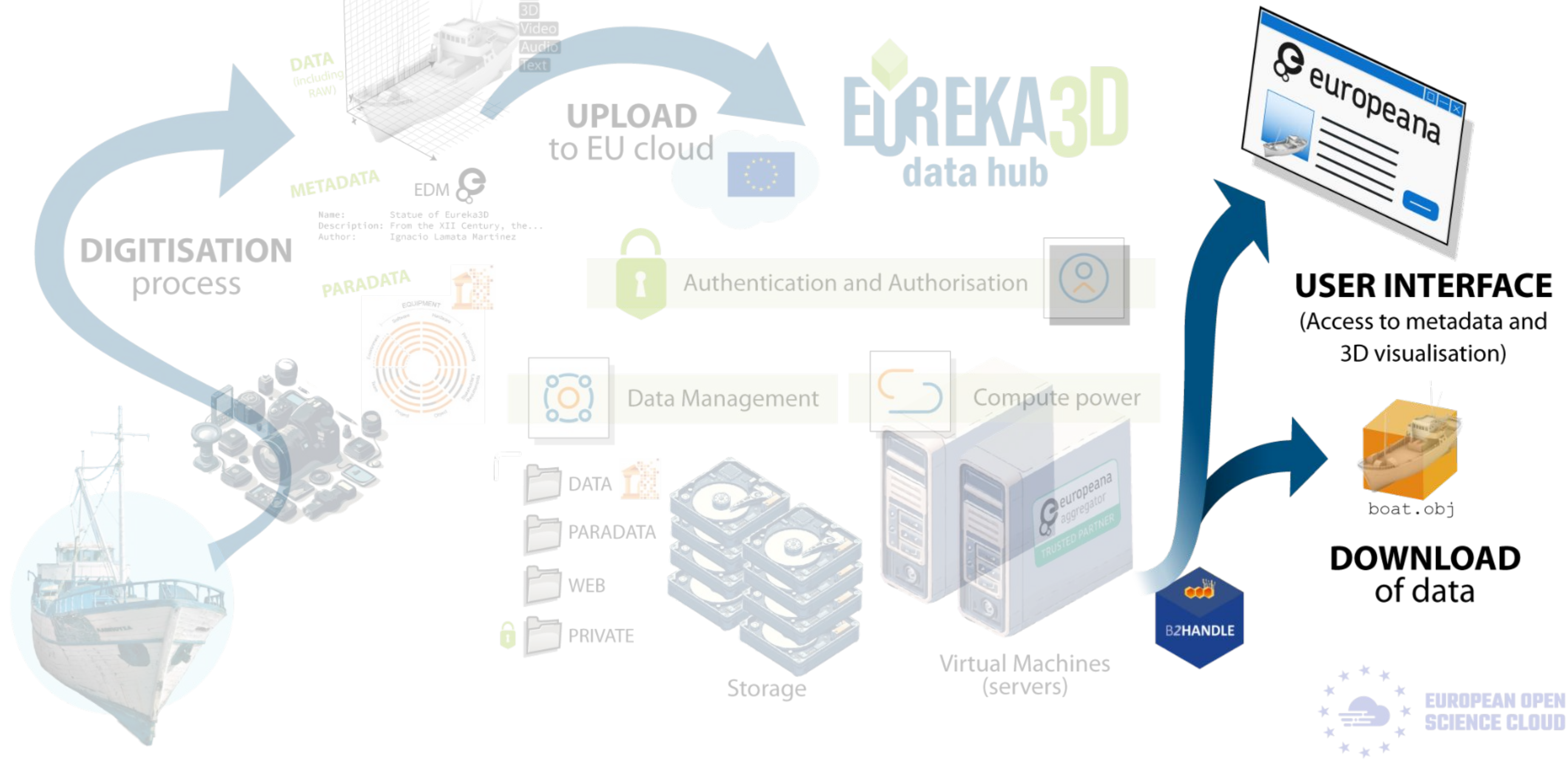
CAPTURE CLOUD DELIVERY



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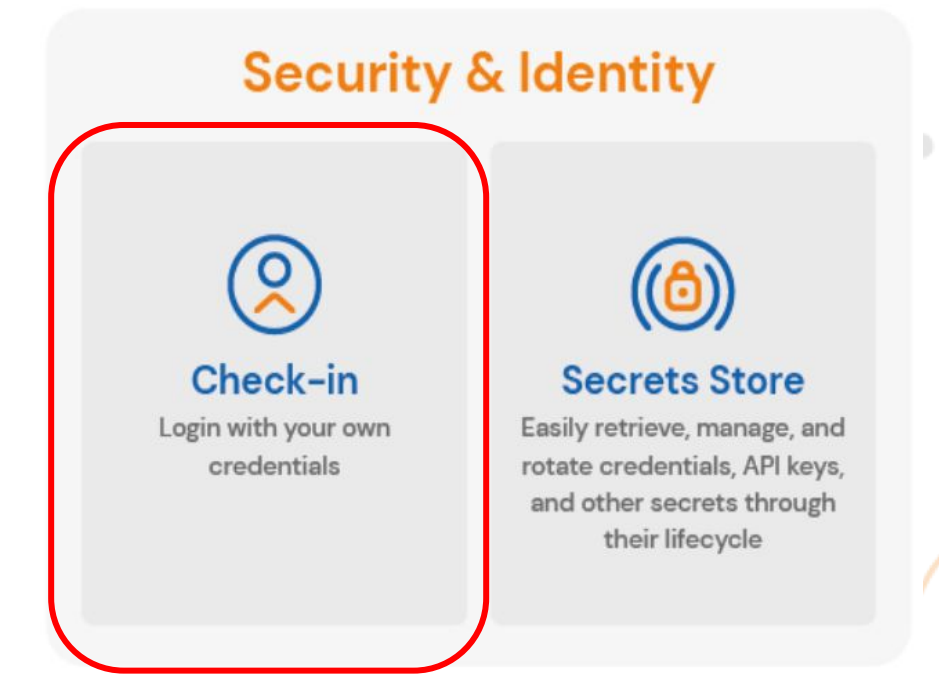
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EGI Check-in

<https://www.egi.eu/service/check-in/>



An identity and access management system that deals with **Authentication** and **Authorisation** of users.

- Supports OAuth 2.0 / OIDC, SAML, X.509 Certificates
- **User authentication** through a variety of Identity Providers – Research institutions in eduGAIN, Google, ORCID, LinkedIn
- **User authorisation** based on Virtual Organisations (VO) to organise communities, through groups and roles
- Management of different user identities (accounts).
- Unified user attributes

Session: Trust and Security – Thu 03, 09:00 CEST



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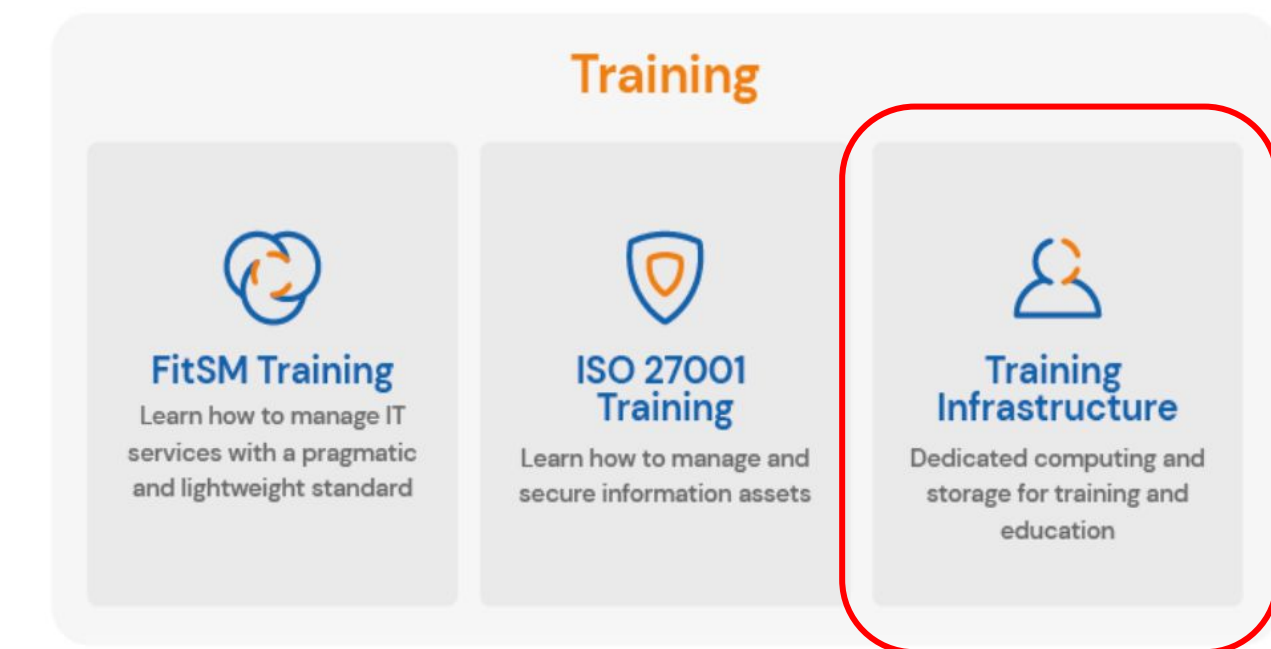
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Dedicated computing and storage for training and education

User documentation: <https://docs.egi.eu>

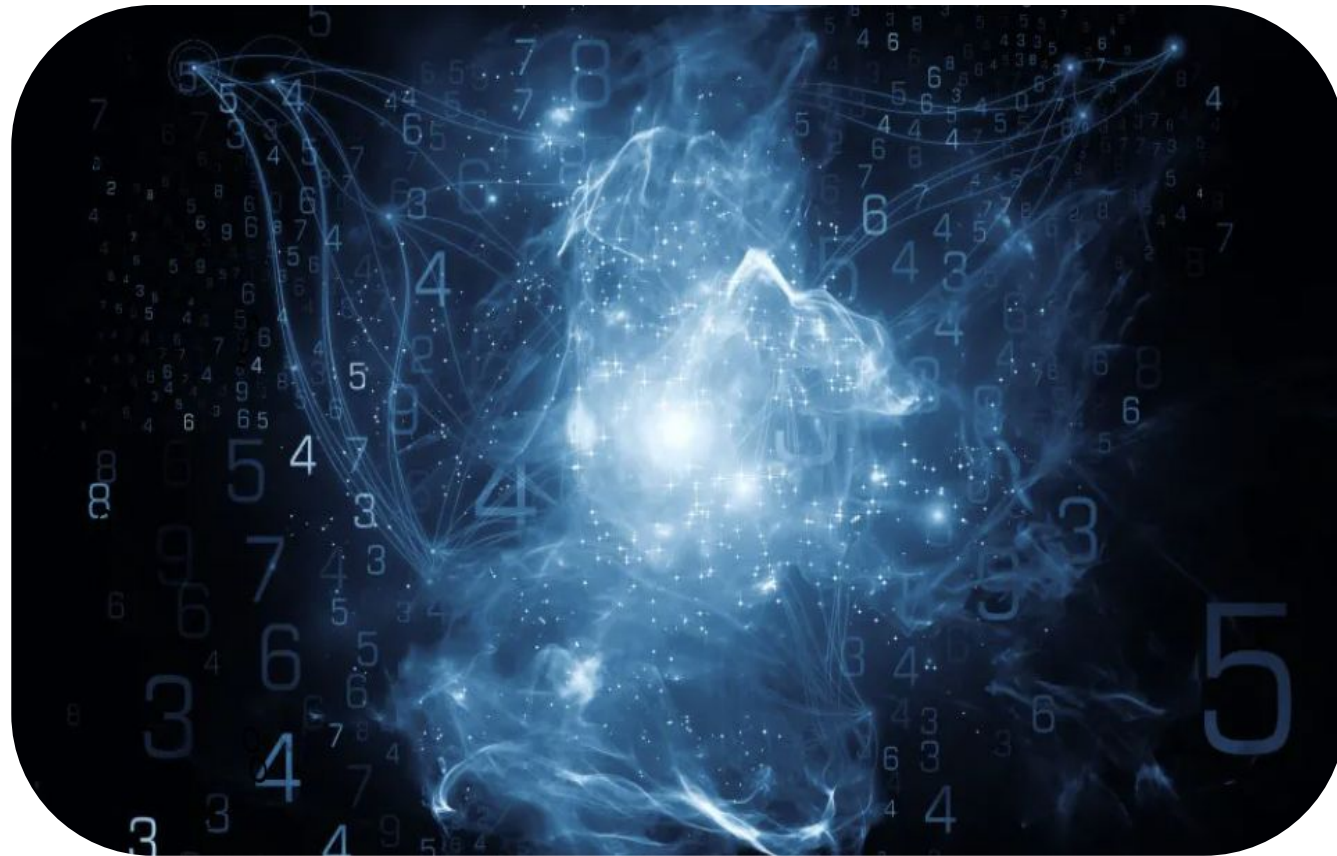


- FitSM is a **lightweight standard** for IT Service Management
- With FitSM Training you will **learn the fundamentals of IT Service Management** and **how to implement FitSM in your organisation**
- By implementing FitSM, you can improve your organisation's IT Service Management processes and increase efficiency
- EGI offers **in-house training** for organisations needing several members of staff to be trained
- Three different levels of training:
 - **Foundation** (1 day),
 - **Advanced** (2 days), and
 - **Expert** (2 days)

Training: FitSM Training: Mastering IT Service Management (registration required) – Mon 30, 14:00 CEST

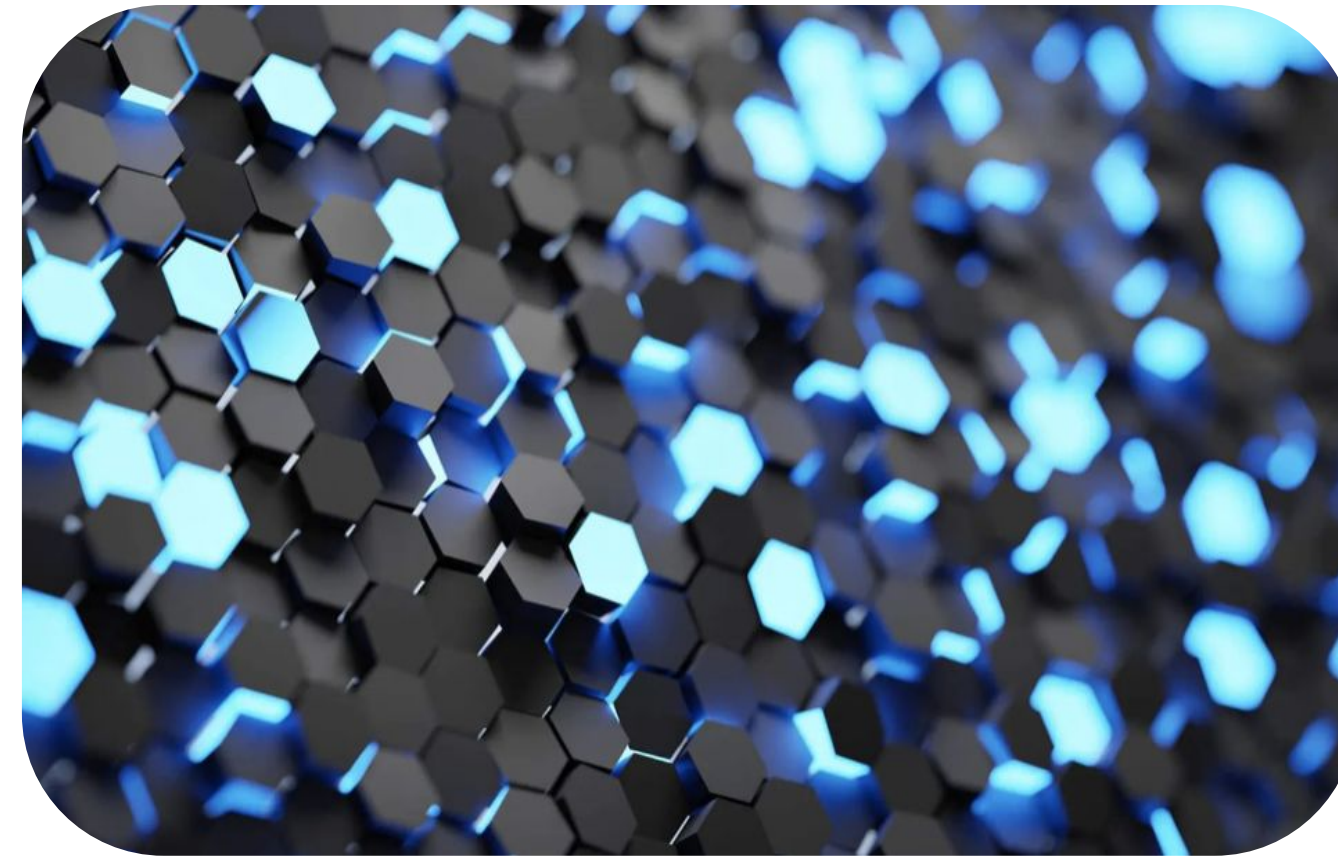


Services for Federation



Services for Research

Our large-scale computing and data analytics services are helping scientists to accelerate their research.



Services for Federation

Our internal services provide tools for coordination of the EGI Federation, improving how we work together.



Services for Business

We help companies to exploit and provide services and resources for compute- and data-intensive research and innovation.

Tools and Services for the Federation

Offered by the EGI Foundation to the members of the EGI Council

COORDINATION SERVICES

- Operations Coordination and Support
- Community Coordination
- ITSM Coordination
- Technical Coordination
- Project Management and Planning
- Security Coordination
- Strategy and Policy Development
- Communications
- Industry Engagement

TECHNICAL TOOLS

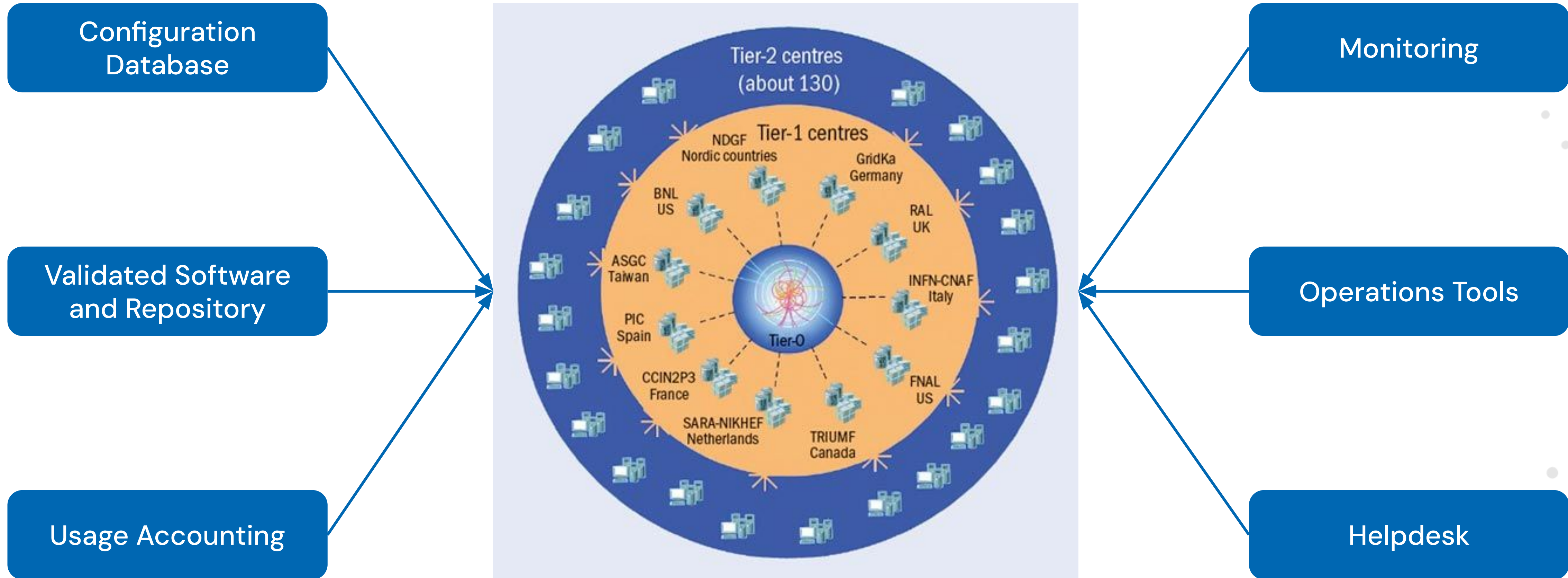
- Accounting
- Collaboration Tools
- Configuration Database
- Operational Tools
- Helpdesk
- Service Monitoring
- Validated Software and Repository

SECURITY AND IDENTITY

- Check-in
- Attribute Management



WLCG - The Worldwide LHC Compute Grid





Tools and Services for the Federation

Offered by the EGI Foundation to the members of the EGI Council

COORDINATION SERVICES

Operations Coordination and Support

Community Coordination

ITSM Coordination

Technical Coordination

Project Management and Planning

Security Coordination

Strategy and Policy Development

Communications

Industry Engagement

TECHNICAL TOOLS

Accounting  Science & Technology Facilities Council  CESGA GALICIA SUPERCOMPUTING CENTER

Collaboration Tools  ESI  cesnet

Configuration Database  Science & Technology Facilities Council

Operational Tools  CNRS

Helpdesk  KIT Karlsruher Institut für Technologie

Service Monitoring  srce  grnet  CNRS

Validated Software and Repository  CSIC  LIP

SECURITY AND IDENTITY

Check-in  grnet

Attribute Management  grnet



Projects help us to:

- Evolve the EGI Internal/External services
→ **Dev. projects**
- Engage and support specific scientific communities/RIs
→ **Co-design and delivery projects**

	2023	2024
<div style="background-color: #0056b3; color: white; padding: 20px; text-align: center;"> <h1>37</h1> <h2>Projects Running</h2> </div>	<div style="background-color: #e67e22; color: white; padding: 10px; text-align: center;"> <h2>19</h2> <p>Projects submitted</p> </div>	<div style="background-color: #e67e22; color: white; padding: 10px; text-align: center;"> <h2>7</h2> <p>Projects submitted</p> </div>
	<div style="background-color: #e67e22; color: white; padding: 10px; text-align: center;"> <h2>10</h2> <p>Projects approved</p> </div>	<div style="background-color: #e67e22; color: white; padding: 10px; text-align: center;"> <h2>5</h2> <p>Projects approved</p> </div>
	<div style="background-color: #e67e22; color: white; padding: 10px; text-align: center;"> <h2>9</h2> <p>Projects unsuccessful</p> </div>	<div style="background-color: #e67e22; color: white; padding: 10px; text-align: center;"> <h2>2</h2> <p>Projects unsuccessful</p> </div>

EGI Flagship and participating projects

<https://www.egi.eu/projects/>

Closed meetings during the EGI2024 conference

Coordinated Projects



Participating Projects



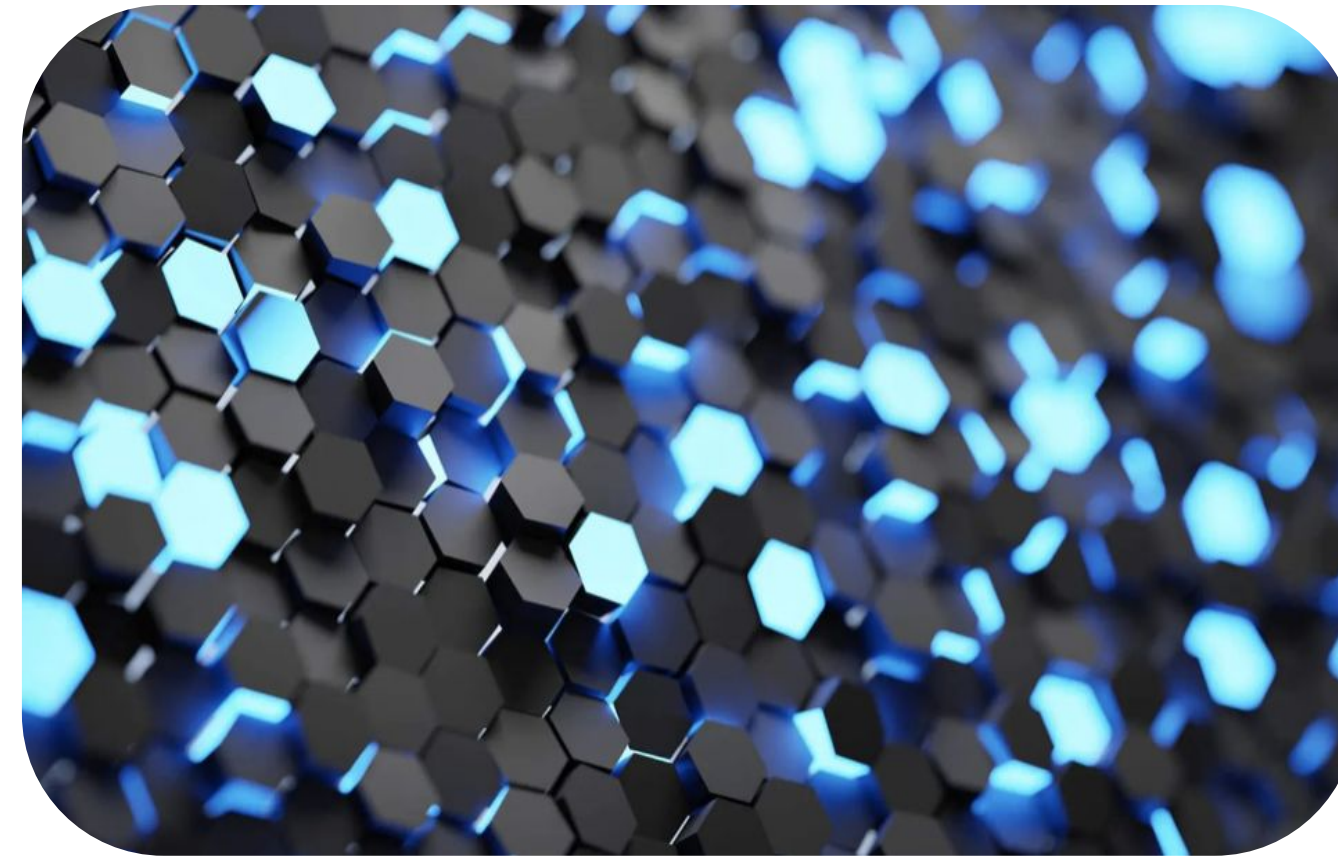


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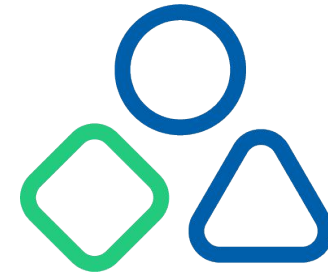
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We help companies to exploit and provide services and resources for compute- and data-intensive research and innovation.



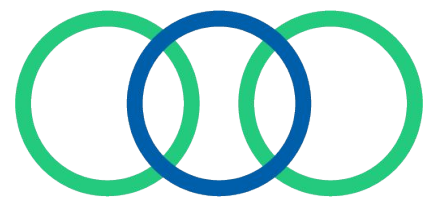
Test before you invest

Technical facilities to support companies and SMEs test before investing or to validate services or solutions.



Skills and training

Provide knowledge on the technical offer through webinars or consultancy services.



Networking and community

Bring SMEs and communities together with the EGI community and facilitate the interaction and open new market opportunities.



Funding and market opportunities

Facilitate the access to funding opportunities and investment mechanisms to sustainable support the innovation.



As a customers

- Get access to compute, data, tools and applications with technical support and consultancy (under requirements and availability).
- Access to funding opportunities and networking

Mainly oriented to:
SMEs and Startups

As a providers

- Co-develop with researchers and become part of the EGI service offer
- Increase market opportunities, participate in the procurement framework
- Participate in funded projects and increase visibility on a global scale

Mainly oriented to:
Companies



- Cloud computing services
- Networking with the EGI community



- Networking with the EGI community



- (Trial period)
- Integration of Cloud infrastructure
 - Testing the EGI Check-in

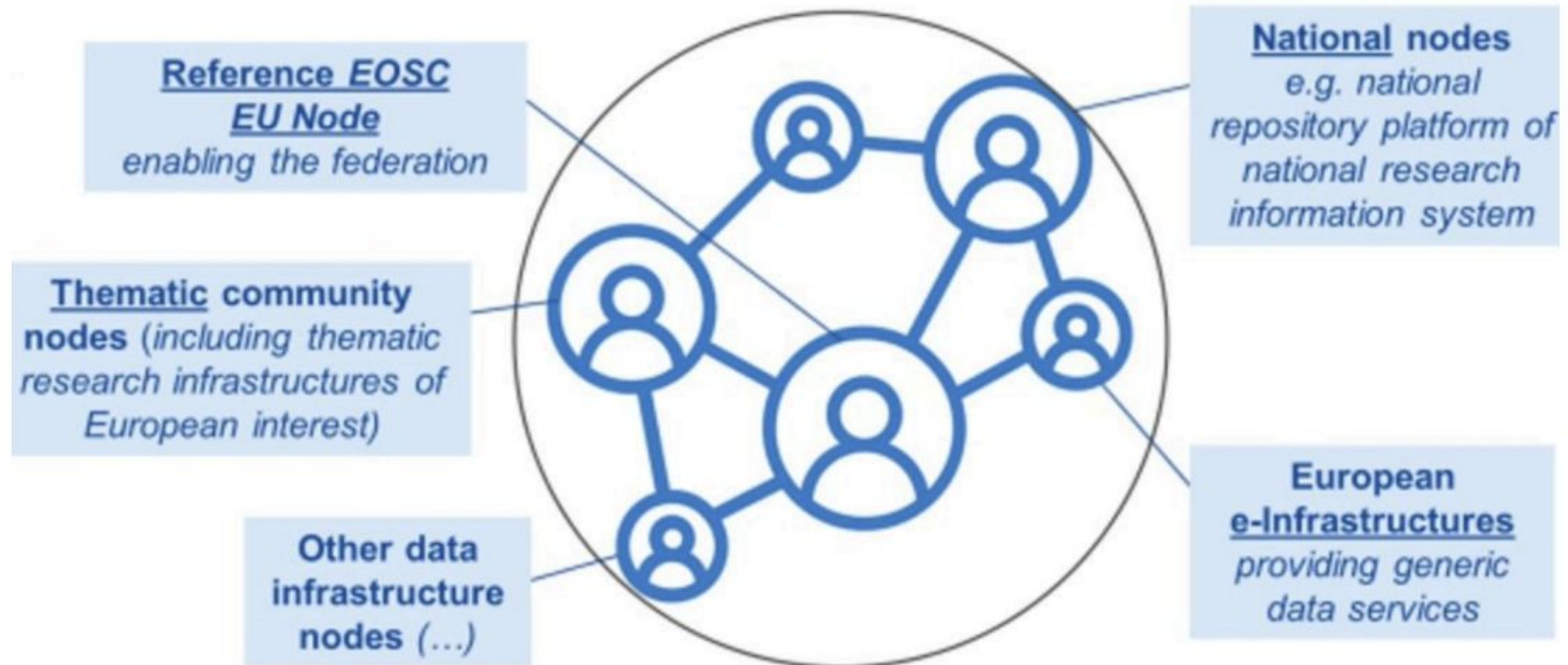


EGI and the European Open Science Cloud

A multi-disciplinary environment where researchers can publish, find and re-use data, tools and services, enabling them to better conduct their work

- > Builds on existing infrastructures and services supported by the European Commission, Member States and research communities.
- > Brings these together in a federated 'system of systems'

EOSC, evolution to a system of systems



EGI position paper:
<https://zenodo.org/records/11128540>

Federator in the EU Node
(EOSC Procurement contract - Lot1)

LAUNCH AT THE EOSC SYMPOSIUM
(21-23 October)

**Reference EOSC
EU Node**
enabling the federation

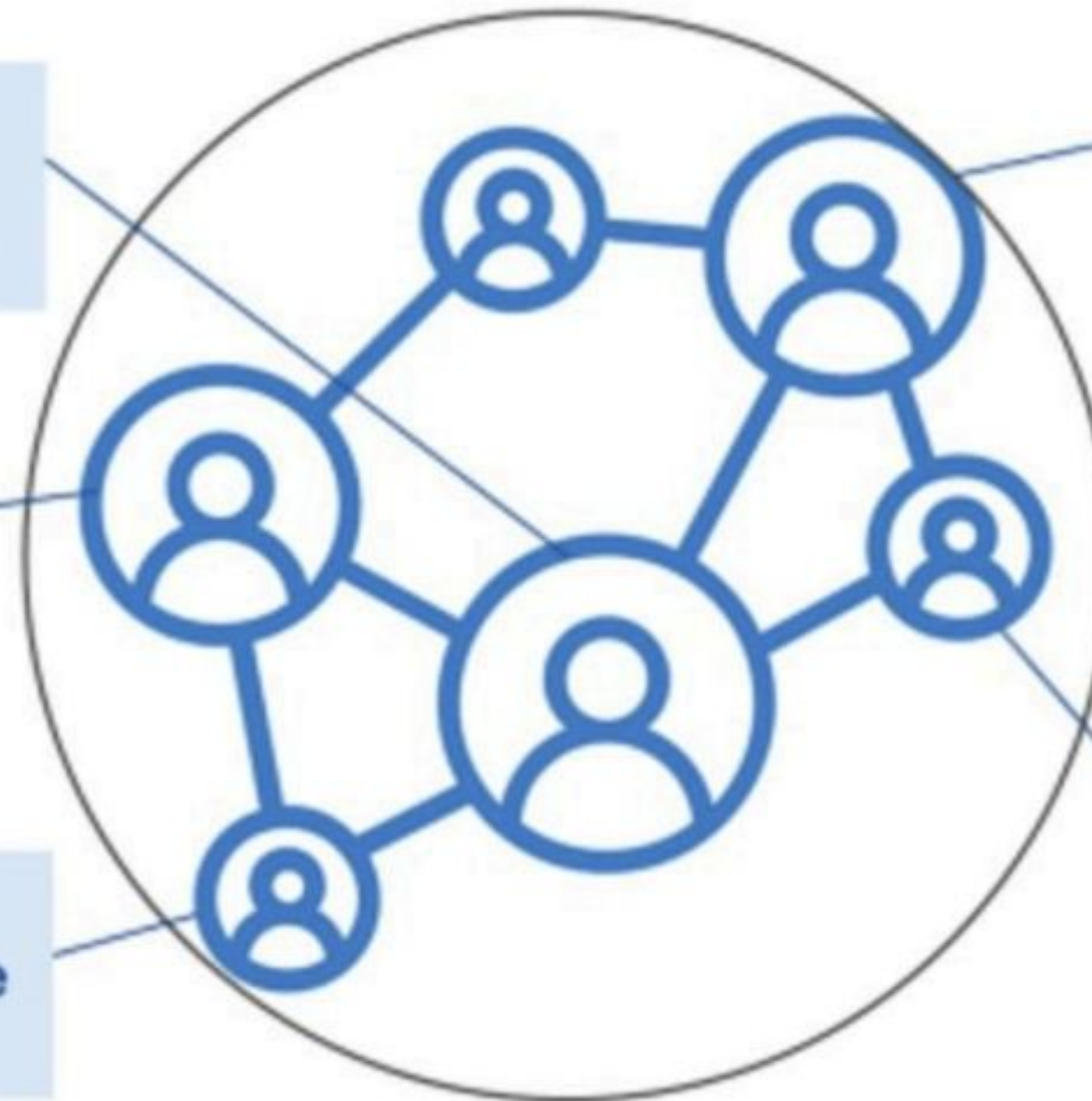
National nodes
*e.g. national
repository platform of
national research
information system*

**Contributor to user-facing
services**
(EOSC Procurement contract - Lot3)

**Thematic community
nodes** *(including thematic
research infrastructures of
European interest)*

**Other data
infrastructure
nodes (...)**

**European
e-Infrastructures**
*providing generic
data services*



Contributor as an EGI Node (B2C, B2B)

- Scalable compute-storage
- Generic platforms
- Thematic data and services
- Ability to take over federation functions



Learn more about EGI

<https://www.egi.eu/services/>

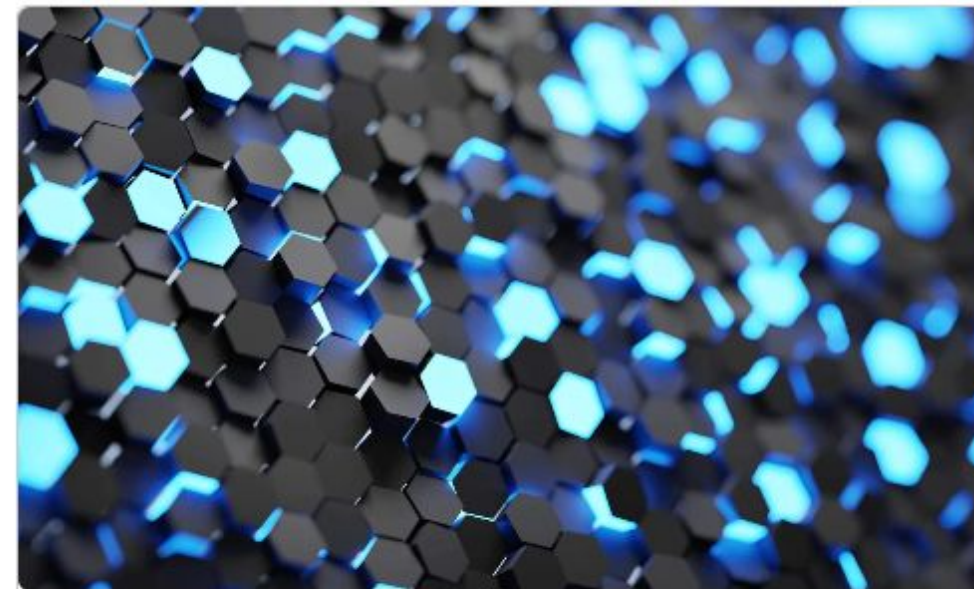
<https://www.egi.eu/publications/>



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[Read more](#)



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Highlights



Annual Report 2021

Summary of the activities and achievements of the EGI Federation in 2021.

[Read more](#)



Strategy 2020-2024

An overview of the EGI Federation strategy for 2020-2024.

[Read more](#)



Service Strategy 2022-2024

This report provides a selection of collaborations through which EGI support the setup and operation...

[Read more](#)



EGI support for Research Infrastructures

This report provides a selection of collaborations through which EGI support the setup and operation...

[Read more](#)



Joining the EGI Federation

Introduction to the EGI Federation, related services, impact and benefits of joining.

[Read more](#)

<https://docs.egi.eu/>

Welcome to the EGI Documentation!

EGI is an international e-Infrastructure providing advanced computing and data analytics services for research and innovation. The EGI Federation offers a wide range of services for compute, storage, data management, training, and support.

This is the start page for the user and provider documentation of the EGI Services.

For Users

How to access and use EGI services to benefit from advanced computing.

For Providers

How to join the EGI Federation and operate services for advanced computing.

<https://www.egi.eu/trainings-and-webinars/>

Trainings & Webinars

Looking for interactive training, best practices and trends related to EGI and partner projects, services and solutions?

Our webinar programme covers a wide range of topics. Register and participate, or discover our webinar archive.

Looking for online and in-person training? Have a look at our catalogue and on-demand offer.

Annual Reports



Annual Report 2021

Summary of the activities and achievements of the EGI Federation in 2021.

[Read more](#)



Annual Report 2020

Summary of the activities and achievements of the EGI Federation in 2020.

[Read more](#)



Annual Report 2019

Summary of the activities and achievements of the EGI Federation in 2019.

[Read more](#)



Thank you!

support@egi.eu

www.egi.eu



This work is partially funded by the EU research and innovation programme