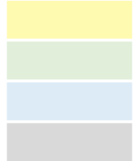


EuroHPC
Joint Undertaking



Federation Platform

<https://my-eurohpc.eu>

EuroHPC User Days 2026

24 September 2026, Dublin (Ireland)

VSB TECHNICAL
UNIVERSITY
OF OSTRAVA

IT4INNOVATIONS
NATIONAL SUPERCOMPUTING
CENTER



ICT Solutions for Brilliant Minds

NORDUnet
Nordic Gateway for Research & Education

GÉANT
Networks • Services • People





EuroHPC
Joint Undertaking

<https://www.eurohpc-ju.europa.eu>



Our AI Factories



Our Supercomputers

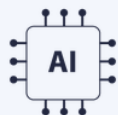


Our Quantum Computers



Our Research & Innovation Projects

EuroHPC Key Facts & Figures



19 + 13

AI Factories + Antennas



14

Supercomputers



10

Quantum Computers



62

Research & Innovation Projects



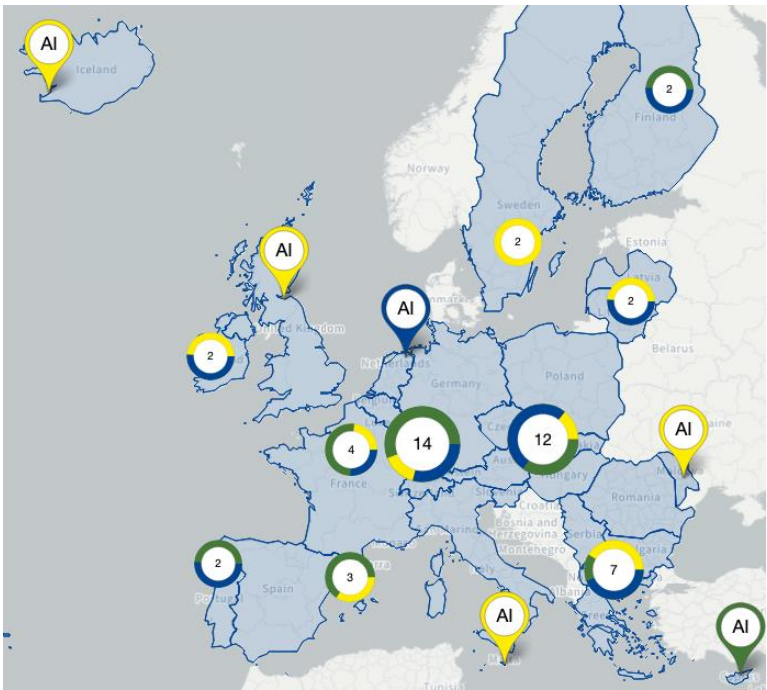
38

Participating States



8,2

Billion EUR Total Budget



Type of Systems

Status

S (Supercomputers)

Q (Quantum Computers)

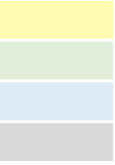
AI (AI Factories)

Operational

Under construction

Pending signature of the procurement contract

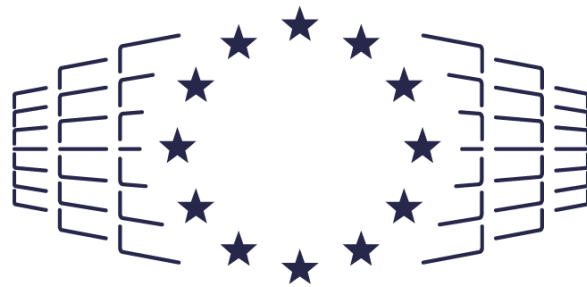
The EuroHPC Federation Platform (EFP)



"A one-stop-shop for accessing and utilizing EuroHPC systems and services"

A platform and federation framework which provides a **streamlined, single point of onboarding** and via which user can **access all systems and services** available to them in the EuroHPC ecosystem.

Direct access | Interactive interfaces | Programmatic APIs | Unified software stack

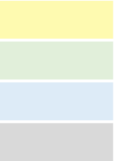


EuroHPC
Joint Undertaking

Federation Platform



EFP Main Features



Federated identity and Single-Sign-On (SSO)

Users utilize the same login and identity (e.g. granted via their home institution or national identity provider) to authenticate to all services and systems. Process for onboarding Industry.



Resource allocation, management and monitoring across systems

Users can view and manage their allocations and project members across all systems using a single interface.



Interactive web-based usage

with e.g., remote desktop, command line, AI training monitoring and Jupiter notebooks. Ability to launch batch jobs and browse files on the supercomputers.



Federated software catalogue

providing a pre-installed pseudo-uniform software stack on all systems. Advanced discoverability features for available software.



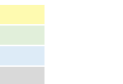
Advanced workflows and data transfer

Workflow execution and data transfers across systems, along with smart scheduling capabilities and high-level graphical interfaces for creating and managing workflows.

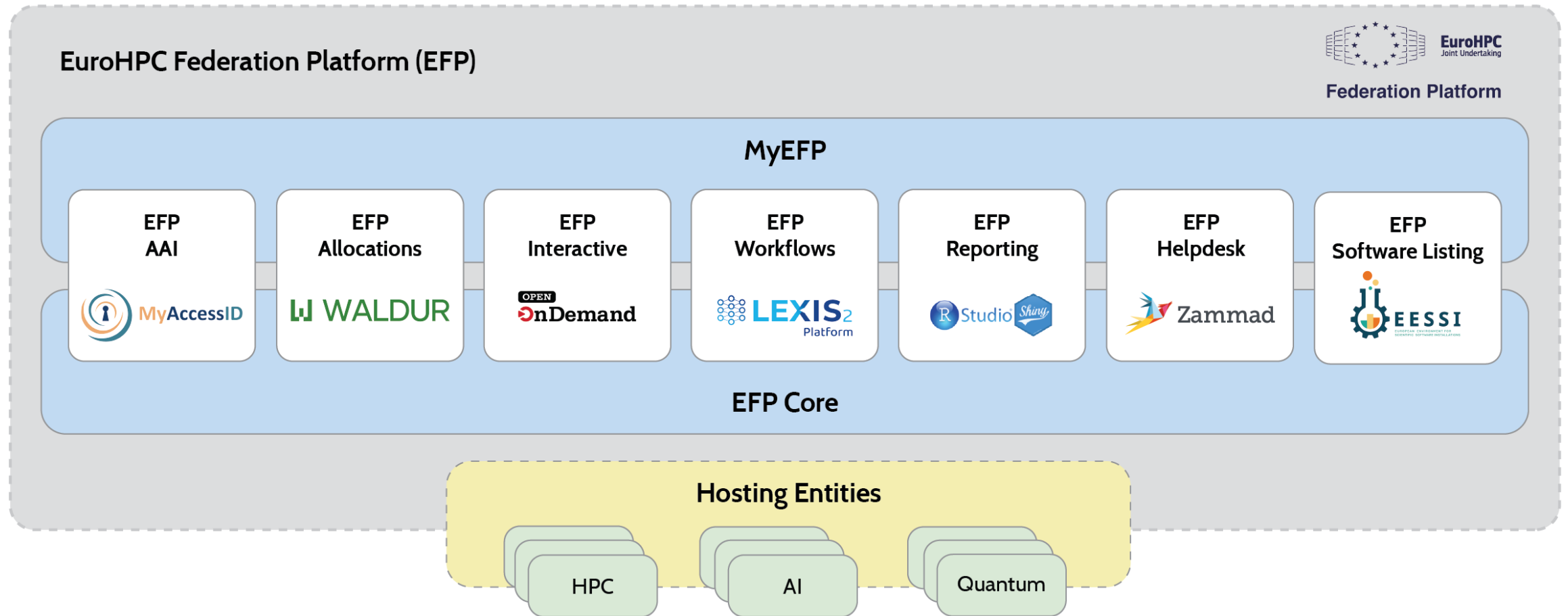


Direct access utilizing SSH certificates

Short lived certificates which are obtained via a login flow with Multi-Factor Authentication (MFA) for increased security.

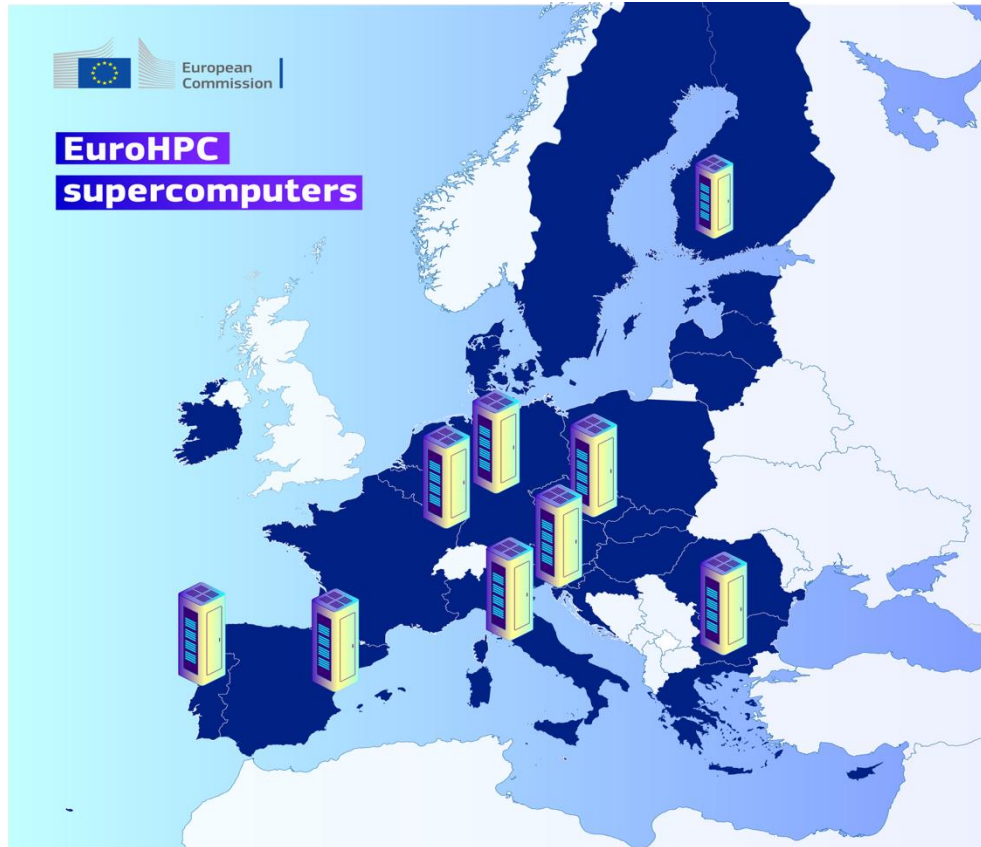


Technologies used for EFP

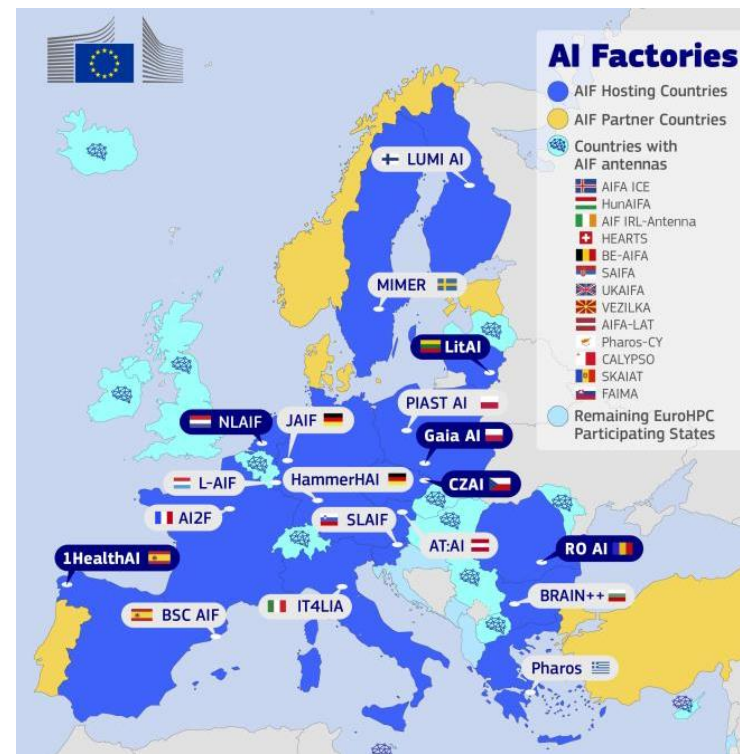


Contributions to existing open source projects are upstreamed when possible

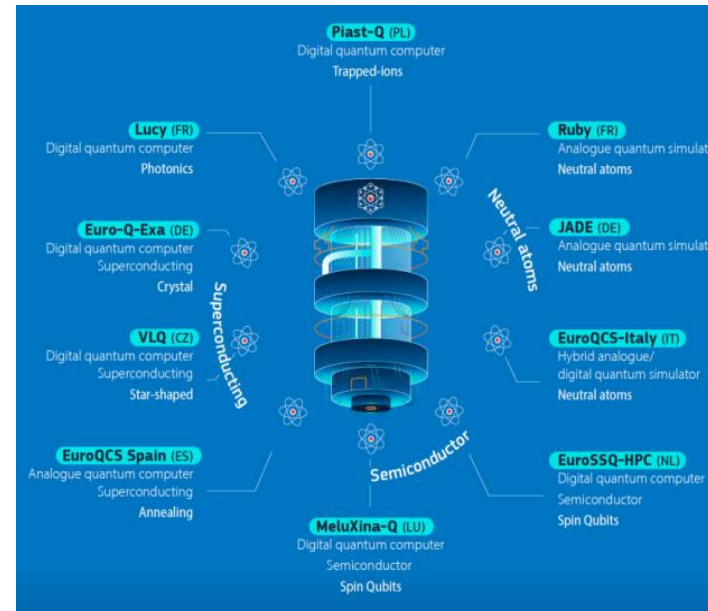
EFP Target Systems



Alice Recoque, Arrhenius, DAEDALUS, Deucalion, Discoverer, JUPITER, Karolina, Leonardo, LUMI, MareNostrum 5, MeluXina, Vega, CASPIr, Levente, ...

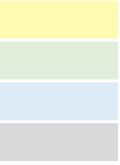


BSC AIF, HammerHAI, IT4LIA, LUMI AIF, Meluxina-AI, MIMER, Pharos, AI2F, AIF Austria, BRAIN++, JAIF, PIAT AIF, SLAIF, CZAI, LitAI Factory, NLAIF, Gaia AI Factory, RO AI Factory, 1HealthAI, ...

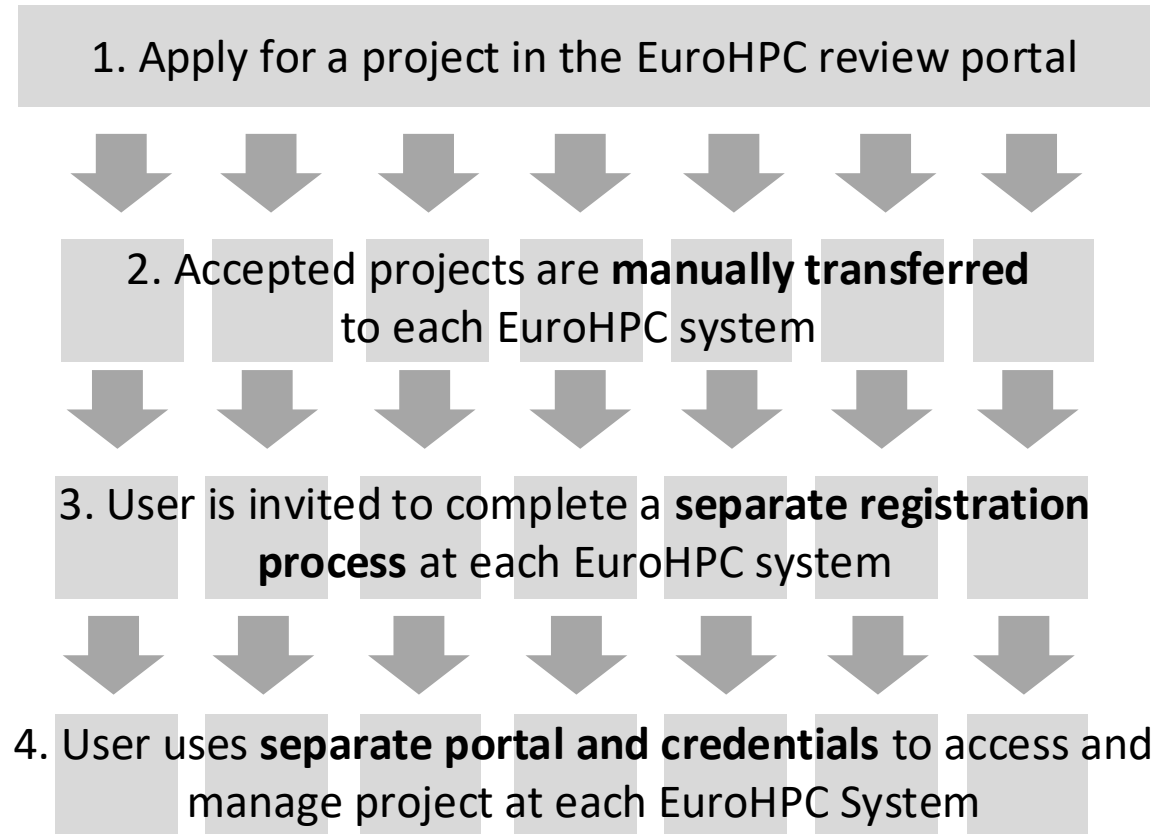


Euro-Q-Exa, EuroQCS-France, EuroQCS-Italy, EuroQCS-Spain, EuroQCS-Poland, VLQ, ...

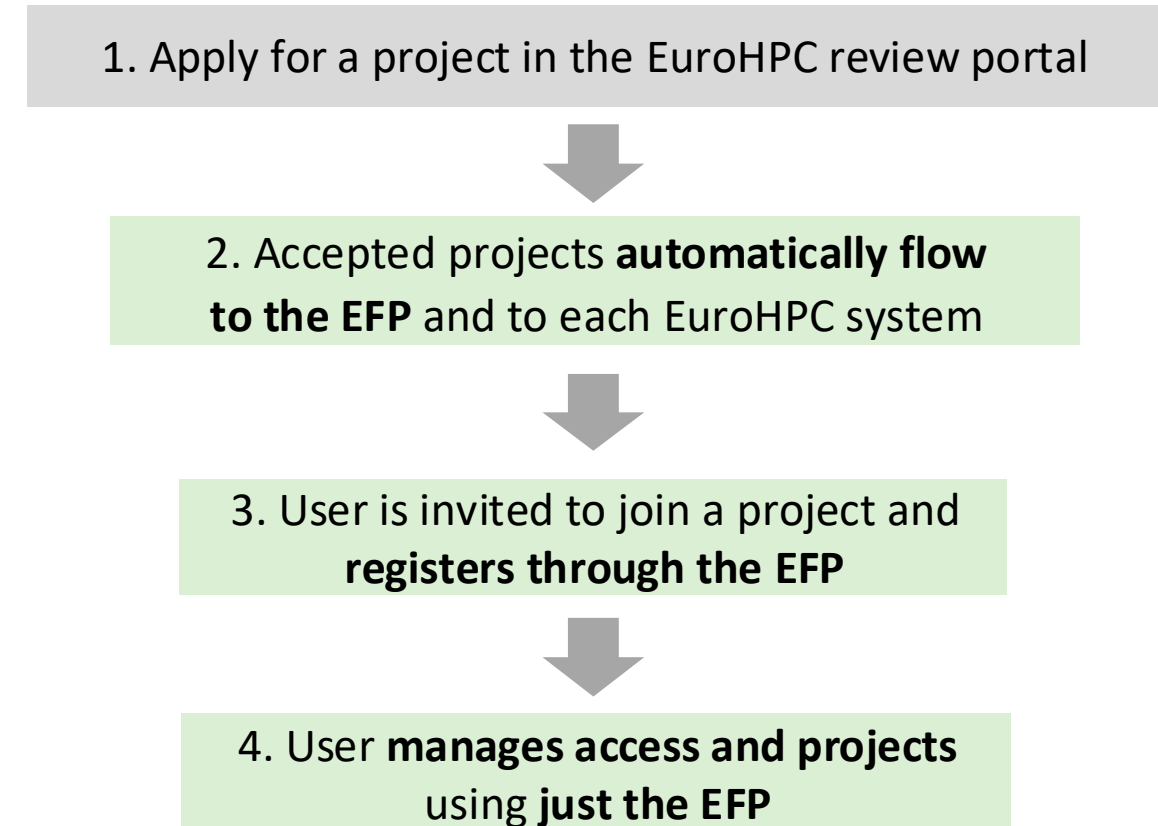
Impact of EFP on User Journey



Before (without EFP)



Now (with EFP)



There are no changes to the services and capabilities offered by the diverse set of EuroHPC systems.

Onboarding and managing projects across all available systems just becomes much easier through EFP.



[Overview](#)[Projects](#)[Direct Access](#)[Requested SSH Credentials](#)[Software Catalog](#)[Workflows](#)[Interactive](#)

Overview

Welcome

Full name:

Email:

Organization:

Project Events

No events

[View Projects](#) →

Locations



Maintenance announcements

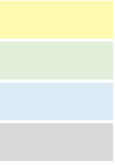
No current / upcoming announcements

[Show completed](#)

Federation Platform

[Support](#)[Log out](#)

Timeline & current status



- **1st phase (2025 – 2026):**
 -  Initial release of EuroHPC Federation Platform, available since mid April 2026
 -  Core functionality
 -  Integration with the currently online EuroHPC systems: partially done, work-in-progress
 -  9 systems integrated: LUMI, JUPITER, Leonardo, MareNostrum 5, Karolina, Vega, Deucalion, Discoverer, MeluXina
 -  Arrhenius partially integrated (AAI and Allocations)
 - Further improvements planned **throughout 2026**
 - Updates deployed continuously when ready
 - Integration with upcoming EuroHPC systems
 - Authorization extended to web APIs
 - Smart scheduler
 - Initial connection to other federations (EOSC)
 - Quality and usability improvements



Reporting

All time6 months12 months

OverviewResourcesUsersOperations

Service providers

12

Offerings

25

Active users

1079

Active projects

780

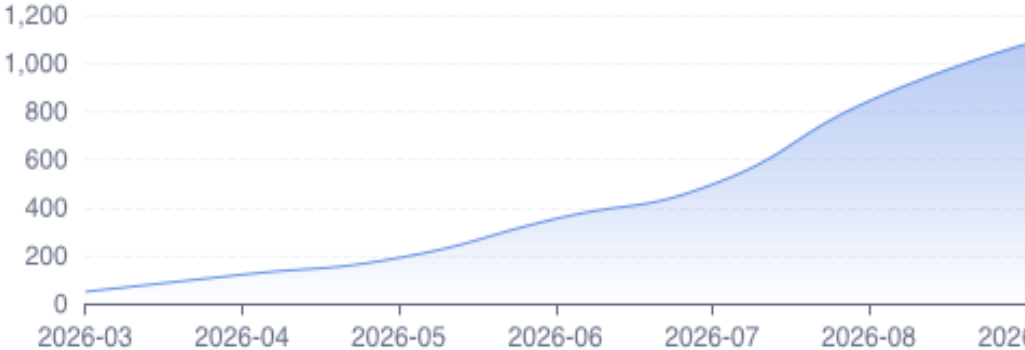
Active resources

804

Users over time

Total: 1079

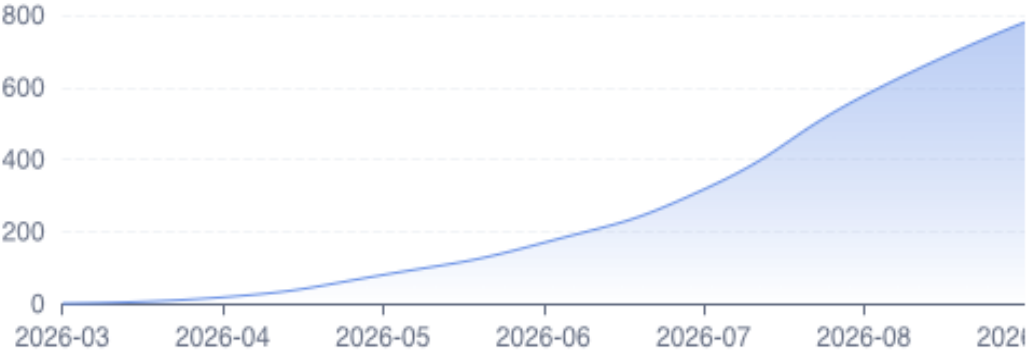
Export



Projects over time

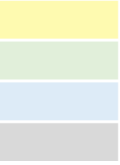
Total: 780

Export

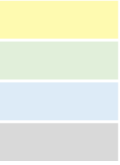


Timeline & current status

- **2nd phase (2027 – 2029):**
 - Integration with all EuroHPC (HPC, AI, Quantum) systems
 - Improved integration with other federations
 - Advanced features



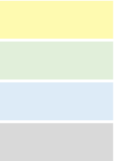
Unique aspects of EFP



- **One-stop shop** for users of EuroHPC systems
- **Single-Sign On w/ MFA + strong identity vetting** when onboarding PIs and project members (MyAccessID)
- **Uniform onboarding procedure** across EuroHPC systems
- **Centralized project management** for your EuroHPC project allocations, based on Waldur
- **Uniform direct SSH access** to EuroHPC systems, using short-lived SSH certificates issued by SSH CA in EFP
- **Federated Open OnDemand instance** that can be used to access EuroHPC systems
- **Uniform software environment** based on EESSI, which also powers interactive apps
- **Cross-system workflows** supported via EFP Workflows component, based on LEXIS



EFP webinars



Initial series of 5 webinars introduction the EuroHPC Federation Platform (Feb-June 2026) - **Recordings are available:** <https://docs.my-eurohpc.eu/training>

New series of webinars scheduled for October 2026:

Mon 5 Oct 2026, 14:00 CEST — **Introduction to the EuroHPC Federation Platform (EFP)**
speaker: Alberto Lanzanova (CSC - IT Center for Science)

Mon 12 Oct 2026, 14:00 CEST — **Getting Started with EFP: Registration and On-Boarding**
speakers: Josh Howlett (GÉANT), Ahti Saar (University of Tartu)

Mon 19 Oct 2026, 14:00 CEST — **EFP Features Showcase: Managing projects, direct SSH, federated software catalog, interactive web interface**
speaker: Alan O'Cais (Ghent University)

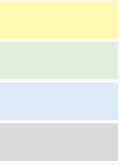
Mon 26 Oct 2026, 14:00 CET — **EFP Workflows: use cases**
speaker: Martin Golasowski (IT4Innovations)



*Scan for more
information on
the EFP webinars!*



EFP Documentation + Helpdesk



- **Documentation on the EuroHPC Federation Platform is available at <https://docs.my-eurohpc.eu>**
 - Regularly updated, use the search feature to help you find the relevant information

- **Questions? Problems?**

Contact contact EFP consortium via: helpdesk@my-eurohpc.eu

- For any questions related to EuroHPC Federation Platform
- In scope: problems with onboarding, using specific EFP features, questions related directly to EFP, ...
- For questions specific to using a particular EuroHPC system, contact helpdesk of corresponding Hosting Entity
- EFP helpdesk team will coordinate with EuroHPC Hosting Entity where needed

