



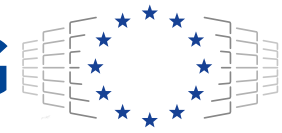
The European High Performance Computing Joint Undertaking



EuroHPC
Joint Undertaking

Dr. Lilit Axner
Programme Manager Infrastructure- EuroHPC JU

ABOUT THE EUROHPC JOINT UNDERTAKING



EuroHPC
Joint Undertaking



An EU body and funding entity based in Luxembourg, established in 2018 and autonomous since 2020



Governed by a Board composed of the European Commission, 38 Participating States and 3 Private Members

Digital Europe Programme

1.98B EUR

- Infrastructure
- Federation of supercomputing services
- Widening usage and skills

Horizon Europe Programme

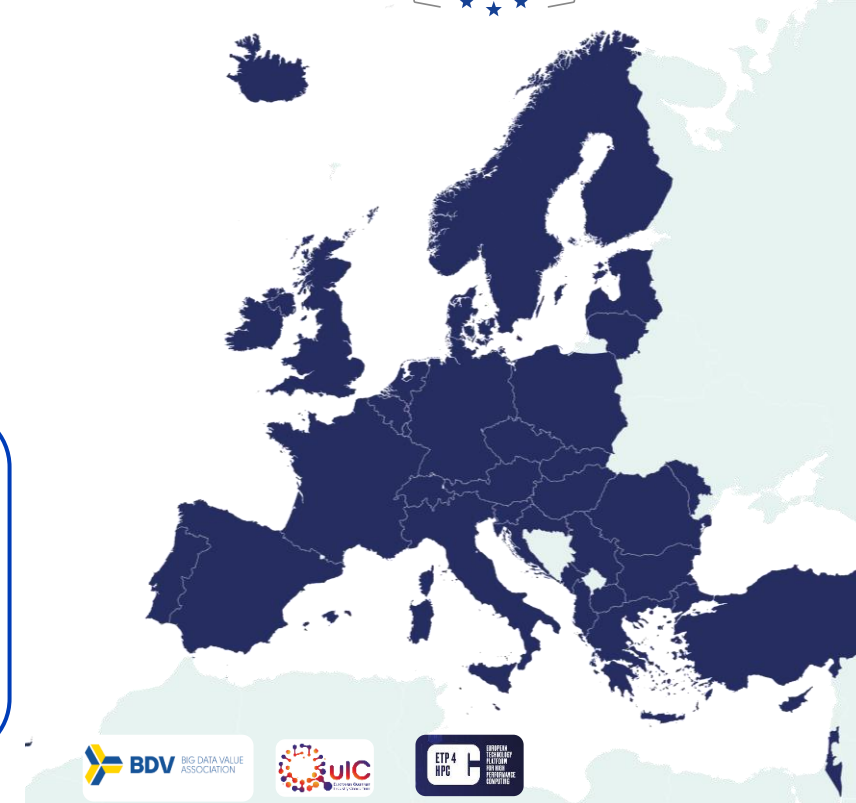
900 M EUR

- Technology
- Applications
- International Cooperation

Connecting Europe Facility

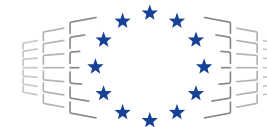
200 M EUR

- Hyperconnectivity
- Data Connectivity



- ❖ Procure, deploy and maintain **High Performance Computing, AI Factories, AI Gigafactories and Quantum infrastructure** in Europe
- ❖ **Fund innovative Research and Innovation projects**, to develop European skills, applications, software and hardware and foster a European supply chain
- ❖ Provide **access to High Performance Computing, AI Factories, AI Gigafactories and Quantum resources** and user support
- ❖ Support state-of-the-art fundamental and applied research and innovation in **Quantum technologies**

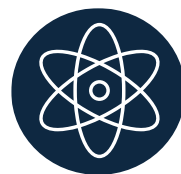
NINE PILLARS OF EUROHPC JU



EuroHPC
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New!

Quantum Technologies



AI Gigafactories

New!

Technology



AI Factories



Skills and Usage



Infrastructure



**Federation and
Hyper connectivity**



Applications



**International
Cooperation**



LEADING THE WAY IN EUROPEAN SUPERCOMPUTING

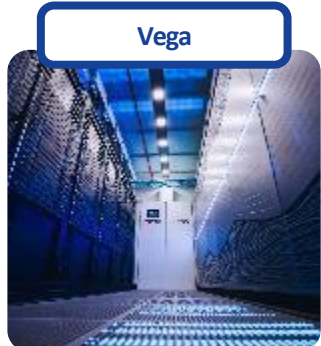
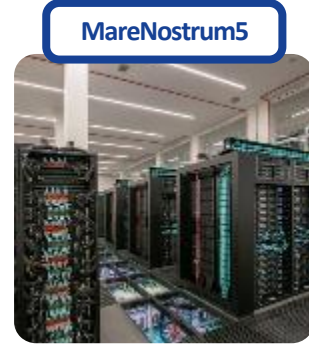
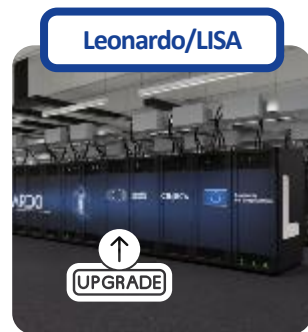
EuroHPC Supercomputers



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OPERATIONAL EUROHPC SUPERCOMPUTERS



Ongoing Development



Federated platform for EuroHPC infrastructure

Hyperconnectivity

An Industrial System



FEDERATION PLATFORM & HYPERCONNECTIVITY

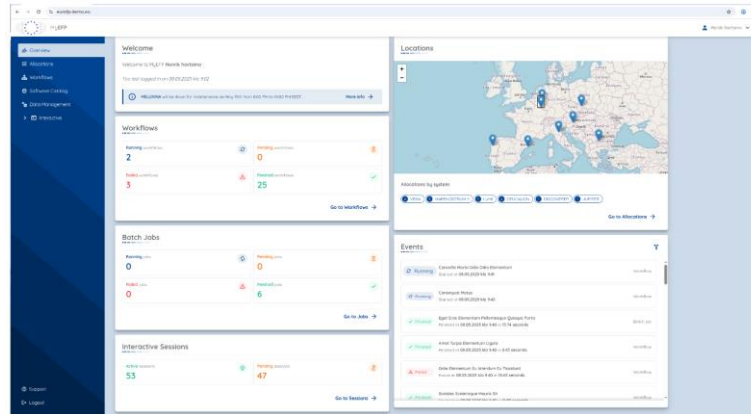
“EuroHPC JU aim to develop, deploy, extend and maintain in the EU a world-leading federated, secure and hyper-connected supercomputing, quantum computing, service and data infrastructure ecosystem”

Federation Platform

Designed to support an expanding range of workflows and enable innovative approaches to complex challenges.

Timeline

- Jan 2025: Start of development
- Sept 2025: Collaboration agreements with EuroHPC Hosting Entities to streamline integration
- April 2026: Initial release

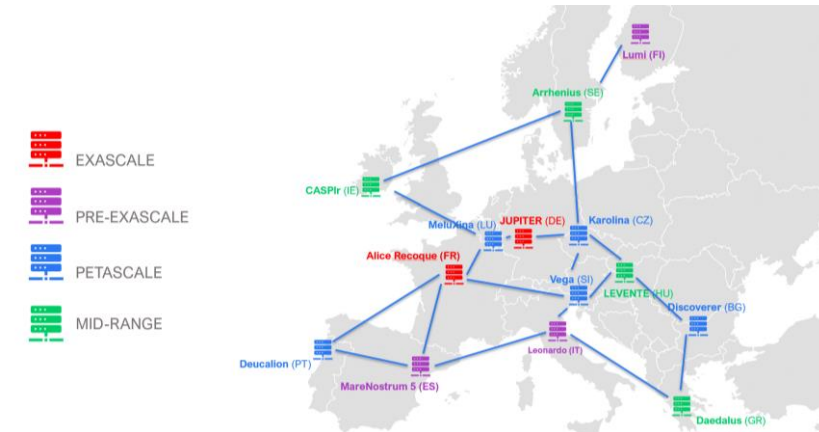


HyperConnectivity

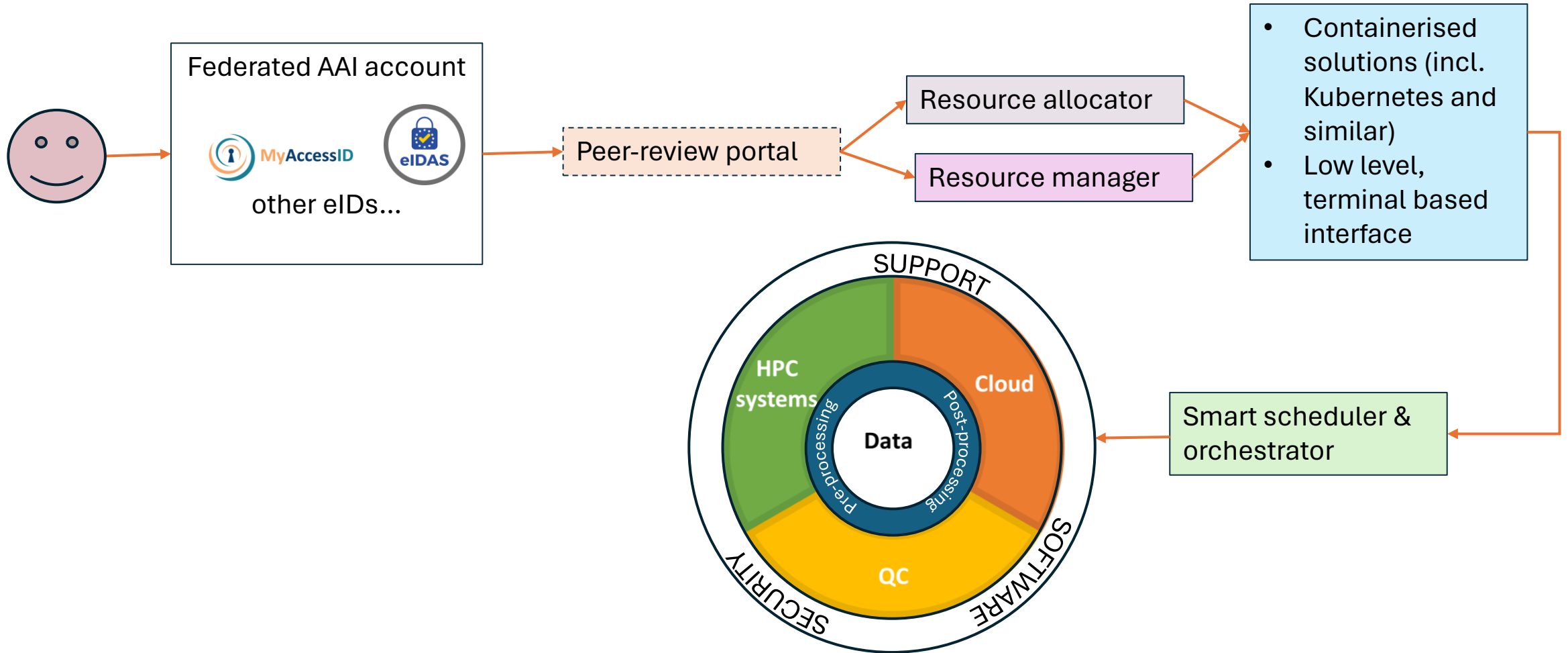
Deliver terabit-per-second capacity with robust security, flexible, and future-proof services.

Timeline

- Sep 2025: Framework Contract Signed
- 2026: High Level Design (HLD) and HyperConnectivity Service Area (HCSA) delivered
- 2029: Fully hyperconnected ecosystem in operation



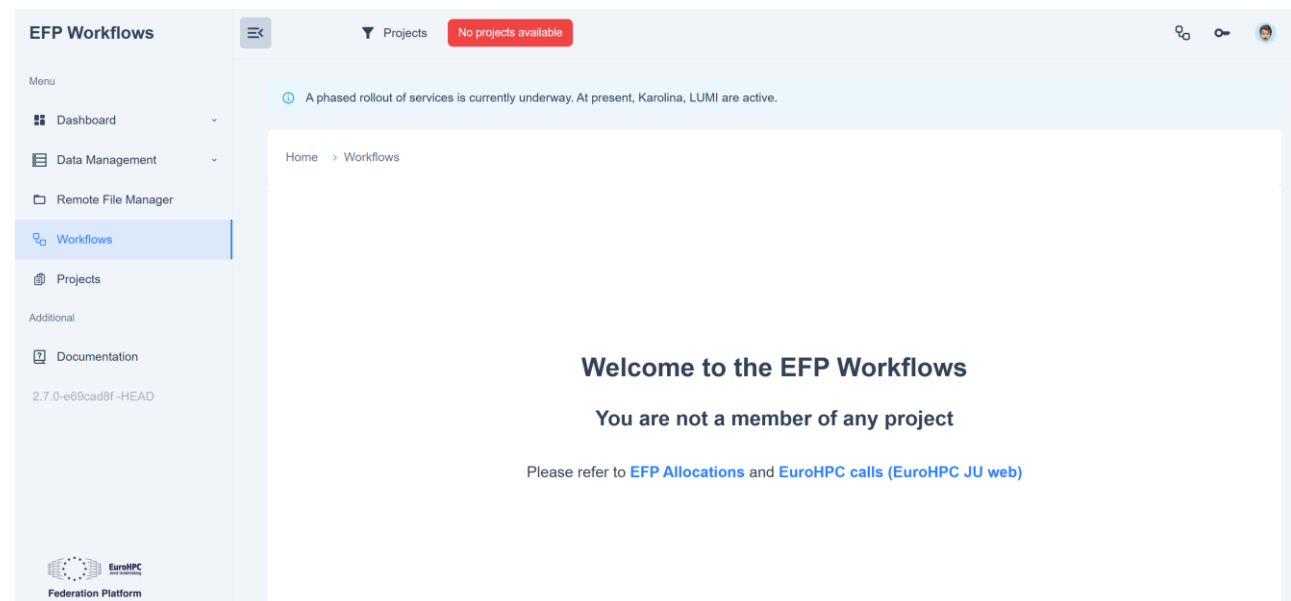
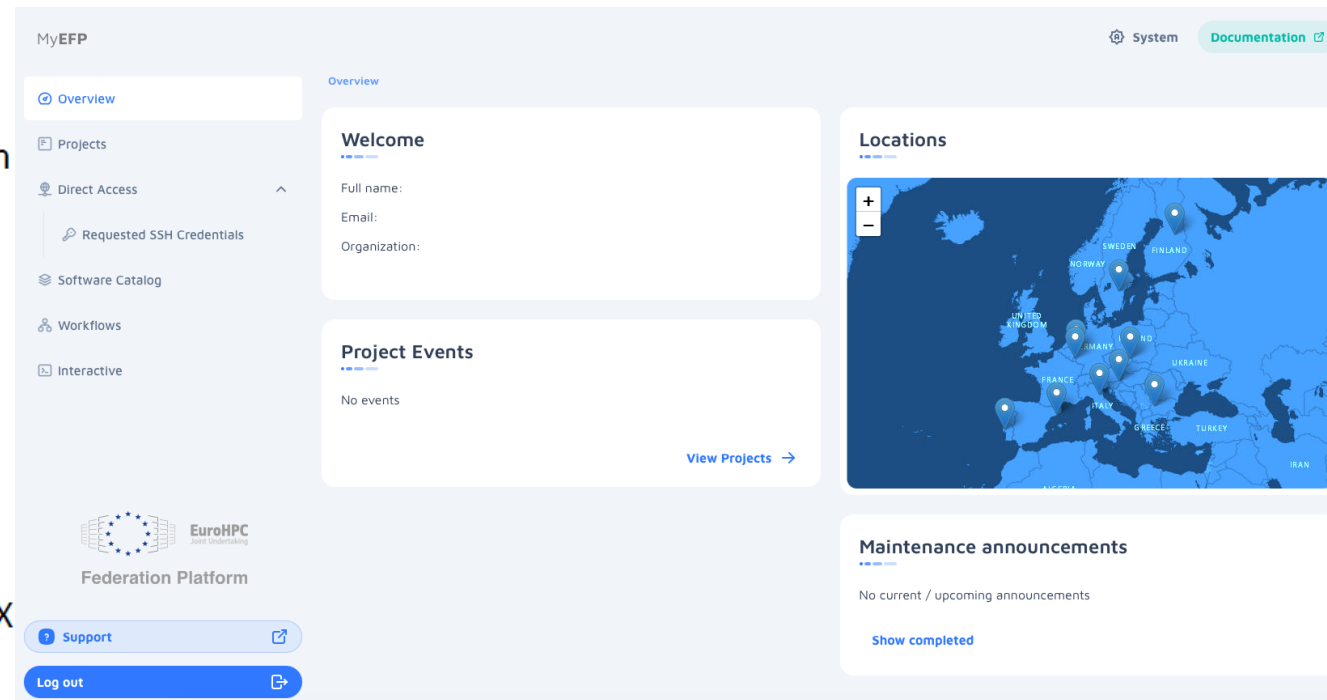
EFP: the complete solution



Timeline

- **1st phase (2025 – 2026):** Initial release of EuroHPC Federation Platform
 - EFP was released 15.4.2026
 - Core functionality
 - Integration with the currently online EuroHPC systems
 - Further improvements planned throughout 2026
 - Updates deployed continuously when ready
 - Integration with new EuroHPC systems
 - Authorization extended to web APIs
 - Smart scheduler
 - Initial connection to other federations: EOSC, SIMPL, FENIX
 - Quality and usability improvements
 - Broader range of options for user registration
- **2nd phase (2027 – 2029):**
 - Integration with all EuroHPC (HPC, AI, Quantum) systems
 - Improved integration with other federations
 - Advanced features

Second release end of 2026



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