



FENIX

RESEARCH INFRASTRUCTURE

14th RES Users Conference

Online

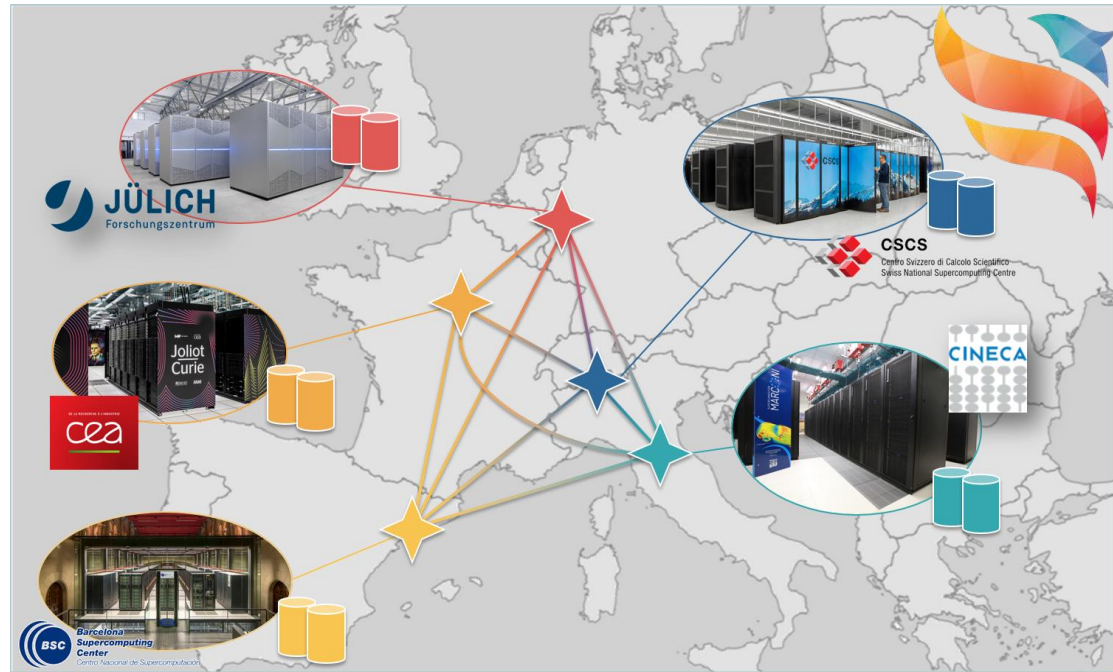
16-17 September 2020



The ICEI project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement No 800858.

Introduction: Fenix & ICEI

- 5 European supercomputing centres are building the Fenix Infrastructure within the ICEI project *
 - BSC (Barcelona, ES)
 - CEA (Bruyeres-le-Chatel, FR)
 - CINECA (Bologna, IT)
 - CSCS (Lugano, CH)
 - JSC (Jülich, DE)



* ICEI: Interactive Computing E-Infrastructure for the Human Brain Project

-> Specific Grant Agreement under the umbrella of the HBP Framework Partnership Agreement

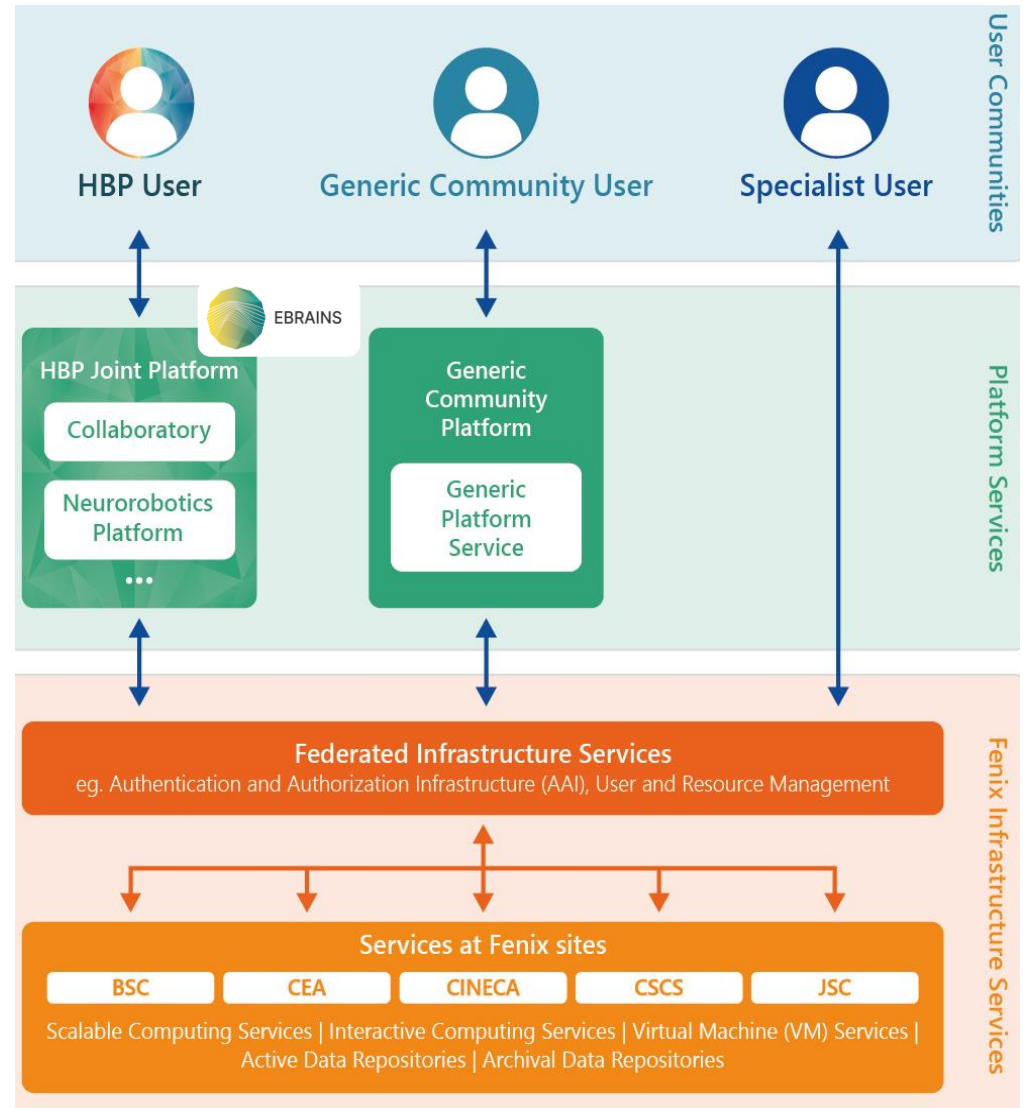
Introduction: Fenix & ICEI

- Layered approach for e-infrastructure service provisioning:

HBP Platform/EBRAINS Services that build on/use Fenix Infrastructure Services



Fenix Infrastructure Services for HBP and European researchers



Fenix Infrastructure – Available Services

■ Scalable Computing Services

- Massively parallel HPC systems - **supercomputers** - that are suitable for highly parallel brain simulations or for high-throughput data analysis tasks

■ Interactive Computing Services

- Quick access to single compute servers to **analyse and visualise data interactively**, or to **connect to running simulations** on supercomputers

■ Virtual Machine (VM) Services

- Service for **deploying VMs** in a **stable and controlled environment**, e.g. platform services like the HBP Collaboratory

■ Active Data Repositories

- **Site-local** data repositories for **storing temporary** slave replicas of large data sets

■ Archival Data Repositories

- **Federated data store** for **long-term storage** and sharing of large data sets

➔ **Information on available resources** is published on the Fenix website: <https://fenix-ri.eu/infrastructure/resources>

Access to Fenix Services

- For researchers in need of:
 - **Scalable and interactive** computing resources
 - **Virtual machine** services
 - **Active and archival data** repositories
- Open Calls:
 - **PRACE-ICEI Call** for Proposals
(Deadline: **15 October**)
 - **Human Brain Project/EBRAINS Call** for Proposals for European Neuroscientists at Large for Using ICEI e-Infrastructure Resources (Ongoing)
- All details on **access** to Fenix resources:
<https://fenix-ri.eu/access>

