



# FENIX

RESEARCH INFRASTRUCTURE

## 15th RES Users Meeting

Online

16-17 September 2021



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

■ 6 European supercomputing centres form the Fenix consortium within the ICEI project \*

■ BSC (Barcelona, ES)



■ CEA (Bruyeres-le-Chatel, FR)



■ CINECA (Bologna, IT)



■ CSC (Espoo, FI)



■ CSCS (Lugano, CH)



■ JSC (Jülich, DE)



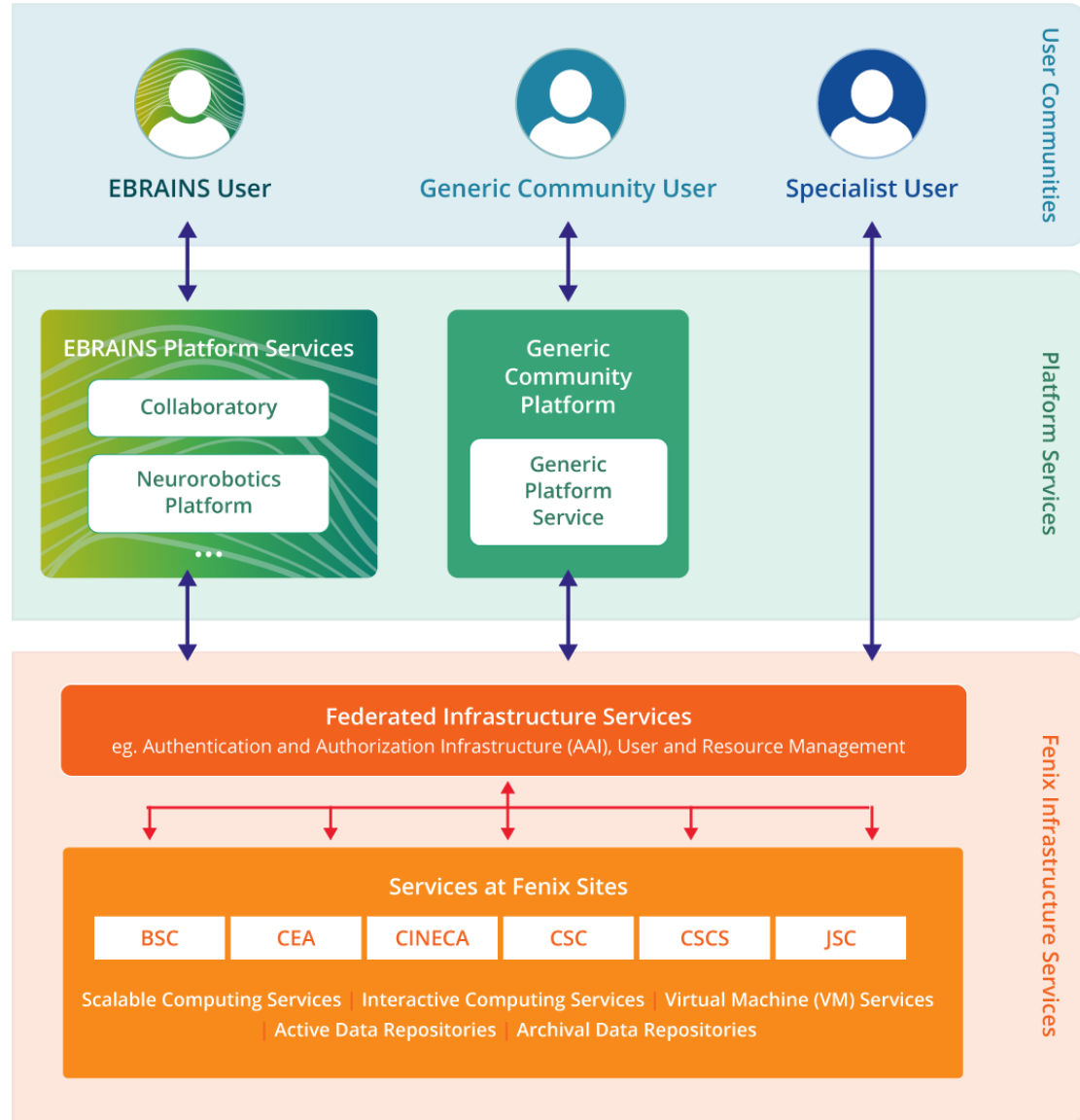
# Introduction: Fenix & ICEI

- 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
- Calls:
  - **PRACE-ICEI Call** for Proposals (Quarterly)
  - **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>

