



The ICEI (Interactive Computing E-Infrastructure for the Human Brain Project) project plans to deliver a set of e-infrastructure services that will be federated to form the Fenix Infrastructure. The project is funded by the European Commission under the HBP Framework Partnership Agreement and is carried out by the leading European Supercomputing Centres BSC (Spain), CEA (France), CINECA (Italy), ETHZ-CSCS (Switzerland) and JUELICH-JSC (Germany). EPFL (Switzerland) has the role of the coordinator.

Goals

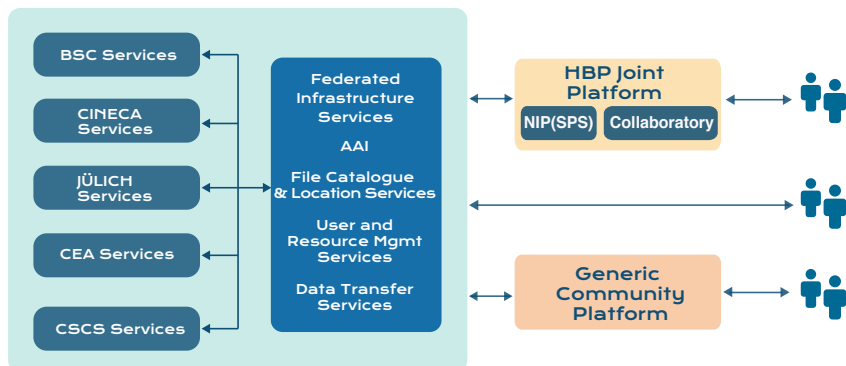
- Establish HPC and data infrastructure services for multiple research communities
- Develop and deploy services enabling federation
- Follow a use-case driven co-design approach

Fenix Communities

Service-oriented provisioning of computing and storage resources within Fenix aims at supporting science communities that develop, deploy and operate domain specific platform services. These services will run on top of the Fenix infrastructure services. The Human Brain Project is the prime and lead customer of ICEI. Access for other science and engineering communities is provided through PRACE.



Human Brain Project



Available Services

- Interactive Computing Services
 - Providing quick access to single servers that enable access to data repositories and potentially allow to scale-out or connect to running scalable compute jobs
- Scalable Computing Services
 - Massively parallel HPC systems for scalable applications
- Virtual Machine Services
 - Service for deploying virtual machines (VMs) in a stable and controlled environment that is, for example, suitable for deploying platform services like the HBP Collaboratory, information catalogues and visualization services
- Active Data Repositories
 - Site-local data repositories close to computational and/or visualization resources for storing temporary slave replicas of large data sets; in the near future they will typically be realised using parallel file systems
- Federated Archival Data Repositories
 - Federated data store optimized for capacity, reliability and availability that is used for long-term storage of large data sets which cannot be easily regenerated

Available Resources

Information on available resources is published on the Fenix website:



Resource Allocation Model - Requesting Resources

HBP members who would like to use available resources are asked to fill in the resource request form for HBP members and forward it for review to the ICEI Project Management Office (PMO) (icei-coord@fz-juelich.de). The review process is designed according to the peer review principles that have been established by PRACE¹, including a technical and a scientific review. The ICEI PMO serves as the point of contact during the review process and informs applicants about the review outcome and the final decision.

The resource request form and further information are available in the Fenix/ICEI Collab:

<https://collab.humanbrainproject.eu/#/collab/28520/nav/200129>

¹<http://www.prace-ri.eu/peer-review/>

Partners



www.fenix-ri.eu

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Access to Fenix IT Services for HBP Users

www.fenix-ri.eu