Goals

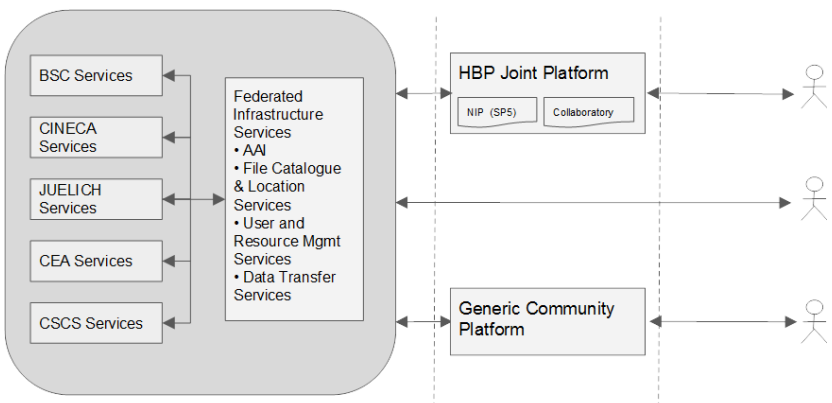
- **Establish HPC and data infrastructure services for multiple research communities**
- **Develop and deploy services enabling federation**
- **Follow a science community driven approach**

Architectural Concepts

- Service-oriented provisioning of resources
- Focus on infrastructure services suiting various science communities
- Support for community specific platforms on top of these services
- Encouragement and facilitation of community efforts
- Federation of infrastructure services to
  - Enhance availability of infrastructure services
  - Broaden variety of available services
  - Optimise for data locality

Planned Services

- Computing services
  - Interactive Computing Services
  - (Elastic) Scalable Computing Services
  - Virtual Machine Services
- Data services
  - Active Data Repositories
  - Federated Archival Data Repositories
  - Data Mover Services, Data Location and Data Transport Services
- Other
  - Authentication and Authorisation Services
  - Fenix User and Resource Management Services (FURMS)
  - Monitoring Services
  - Internal/external interconnect



Current Fenix Communities

- Human Brain Project
- European scientists at large via PRACE
- Other scientific and industrial communities to come

Resource Allocation Model

- Fenix Resource Providers provide resources to Fenix Communities
- Fenix Communities distribute resources to their users via a peer-review process