

Interactive Computing E-Infrastructure
Public Information Event



FENIXRI

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Fenix User and Resource Management Services

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Disclaimer

Neither this announcement nor the event itself signifies the beginning of a procurement procedure or constitutes a commitment by the public procurers involved in the presentation to undertake such exercise at a later stage

Fenix User and Resource Management

- One-stop-shop for users and administrators of the infrastructure
 - Manage community and project membership
 - Manage resource allocations for communities and projects
- Accounting
 - Ingest accounting information from sites
 - Visualize consumed budgets
- Logic
 - Budget notifications
 - Membership expiration

Fenix Stakeholders

Community

- A (virtual) organization of scientists that is entitled to use a given fraction of resources available within the Fenix infrastructure
- Initially foreseen: HBP (25%), PRACE (15%)

Project

- Communities create projects to which they allocate resources at their own discretion

User

- Users are associated with communities and projects.
- Privileged users will have special permissions to manage the Fenix infrastructure

Site

- 5 initial sites: BSC, CEA, CINECA, CSCS, JUELICH
- Sites contribute their resources to Fenix
- Accounting information for consumed Fenix credits sent to FURMS

User Management

- **Fenix staff**
 - Setup communities
 - Grant permissions to community managers
- **Community managers**
 - Setup projects
 - Grant permissions to project managers
- **Project managers**
 - Grant permissions to project users
- **Users**
 - Register
 - Apply for community or project roles
 - Confirm compliance with infrastructure and site rules and regulations

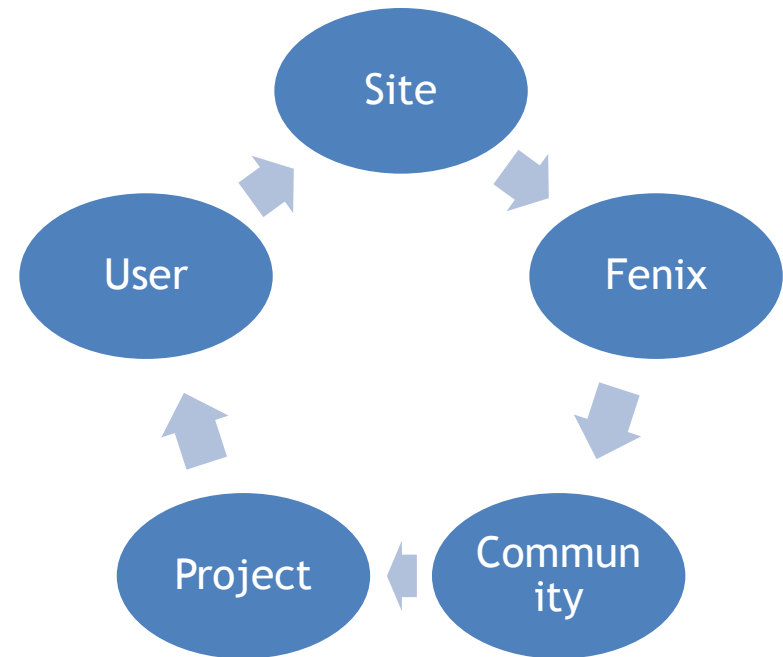
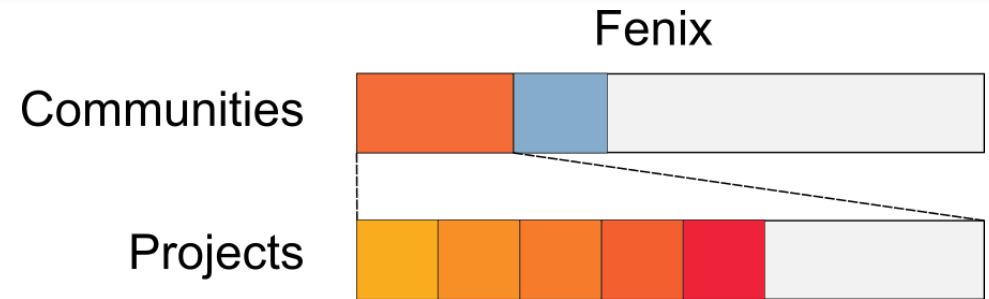
Example Use Case: User Registration

Primary Actor	Anybody
Stakeholders and Interests	Fenix Community Manager - wants to retain the right to decide/approve who becomes member of a given Fenix Community
Precondition	Requestor can provide Identity accepted within Fenix
Success Guarantee	Requestor is informed about request being accepted or denied
Main Success Scenario	<ol style="list-style-type: none">1. Requester authenticates at FURMS web interface2. Requester provides email3. System verifies email4. Requester selects Fenix Community5. Requester accepts relevant usage agreements6. Notification of Fenix Community Manager7. Approval or rejection8. Notification of result

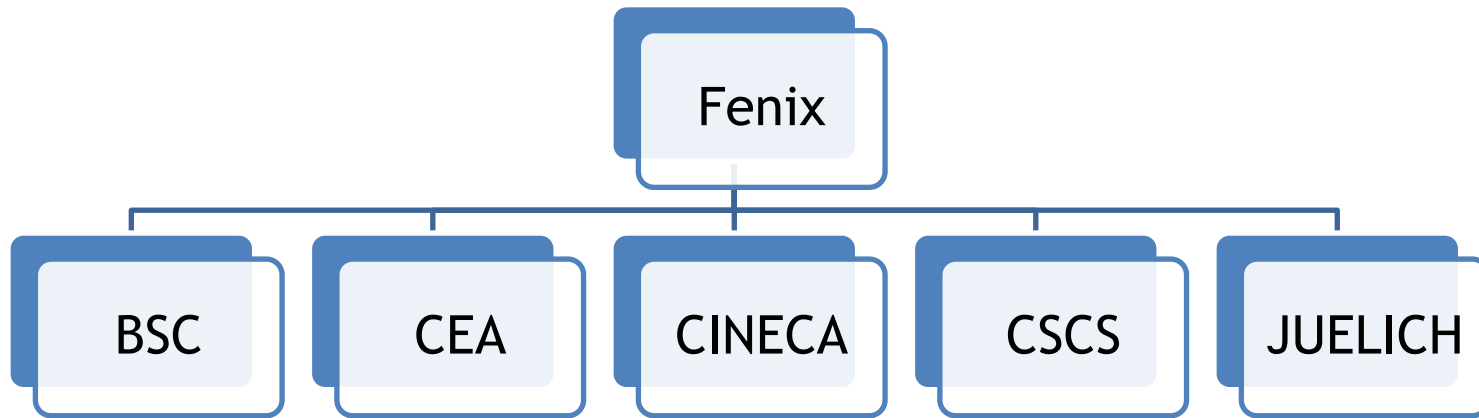


Resource Allocations

1. Sites contribute resources
2. Fenix distributes resources to communities
3. Communities split resources among their projects after peer review
4. Users consume resources of their respective projects at sites
5. Sites send accounting information to Fenix

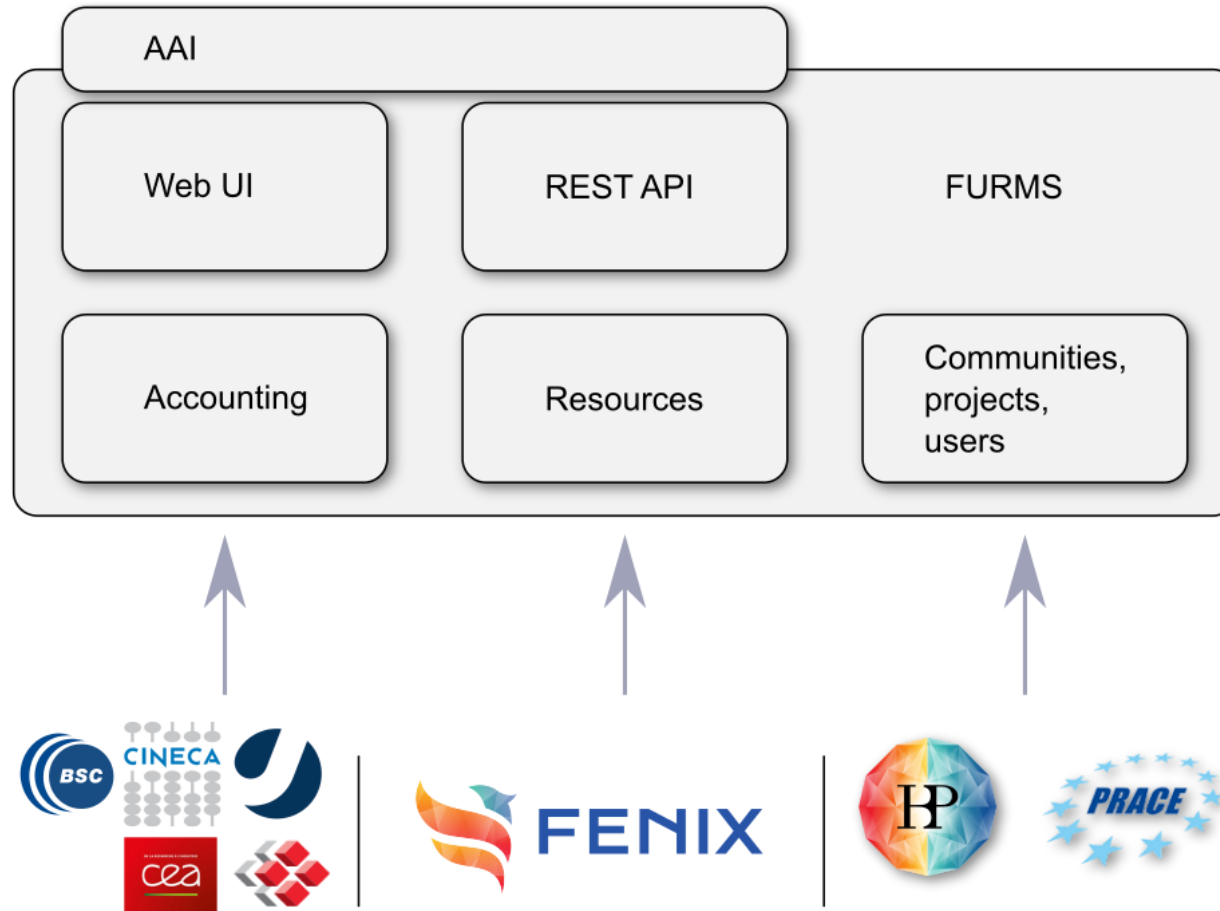


Accounting



- Multiple resource providers and accounting systems
- Map onto single infrastructure accounting model

Overview



Expected Outcome

- Design and implement **resource allocation management**
- Integration with **accounting**
- Interfaces
 - Design and implement user facing **Web UI**
 - Design and implement **REST API**
 - Integration with **AAI solution**
- **Maintenance/support services for project duration**
 - Sustainability plan will need to be provided and implemented



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Thank You

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