

# iShare – Open Internet Sharing Built on Peer-to-Peer and Web

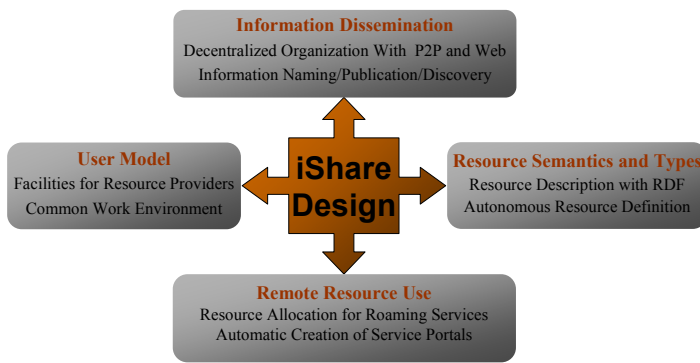


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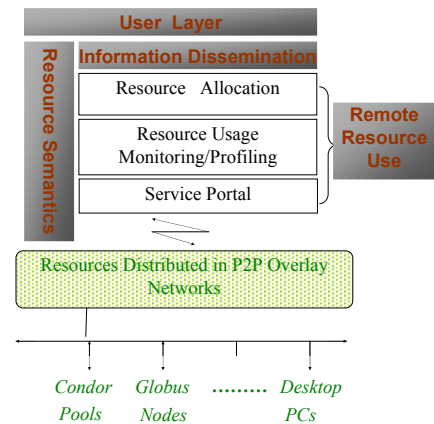
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iShare is a research infrastructure for *Internet sharing and collaboration* projects.

## iShare Design Concepts



## iShare System Architecture



## What is New in iShare ?

### User Model:

- Resource providers find easy tools for resource publication.
- iShare provides user interfaces within Windows desktops, Unix Shells, and Web portals.

### Resource Semantics and Types:

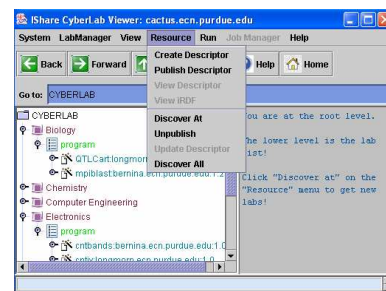
- iShare supports three types of resources: (pinned/roaming) software services, service platforms, and data.
- Resources are described in the Resource Description Framework (RDF).
- Resource developers can offer services under their own administrative procedures and access protocols.

### Information Dissemination:

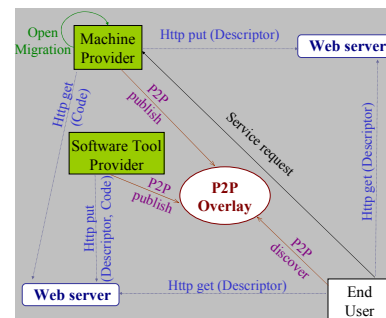
- A provider of resources can post their availability on a web page.
- iShare resources are hierarchically categorized into Cyberlabs.
- Resource metadata is disseminated through a P2P network.

### Remote Resource Use:

- Resource matching in heterogeneous environments involves replication and caching strategies.
- Service portals are created and connected to the executing service on-the-fly.



The End User View in iShare



Dissemination and Request of Roaming Services

## Software Download

<http://www.ece.purdue.edu/ParaMount/iShare>