Project Goals

- To Build a portal framework for Users and Collaborations that allows
  - Easy access to standard Grid Services
  - Integration of arbitrary Grid-Service based applications
  - Tools to compose new applications from Grid and Web service components.
  - Tools to discover and search application metadata

Middleware Technology to Support Science Portals:
A Gateway to the Grid

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Key Idea: Automatic Grid Service Integration

1. User searches service registries to locate services with desired properties.
2. GSH or WS-Address is used to locate the service. If the service is portal ready, directly load user interface into portal. If not, build interface on the fly from wsdl.

Managing Workflow

1. Portlets exist to submit jobs to a condor web-service and monitor results
2. BPEL4WS is web-service workflow standard. Interface is under development.
3. CCA components can also be managed from the portal.

User's View of Portlet/Teamlet Portal

User selects group or virtual organization view

Within a group or V.O. view there is a set of portlets. When selected it is displayed on the right

Portal Security

1. Based on GSI for user proxy credentials
2. WS-Security for access to remote services
3. Capability tokens (SAML) for authorization