

A large, stylized red line-art illustration of an eagle with its wings spread wide, perched on a branch. The eagle is the central focus of the slide, rendered in a dark red color against a black background. The text is overlaid on the eagle's body and wings.

Team Science, Team Scholarship

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Thesis

- ◆ Leading team science efforts are developing common infrastructures and reusable objects & services to support sustained research programs
- ◆ Scholarship in many disciplines may be moving in this direction
- ◆ “Individual” research programs increasingly need to rely on interdisciplinary support teams
- ◆ We need a model for reusable, repurposeable support infrastructure and services
- ◆ What is currently individual, departmental, or discipline-specific research support could become a campus or inter-campus service



Field Crop Management Model



KEY: Step Participant in Step

*Most steps are repeatable (next step = this step).
All step durations are 1 day or less.*

Harvest Disposition Model



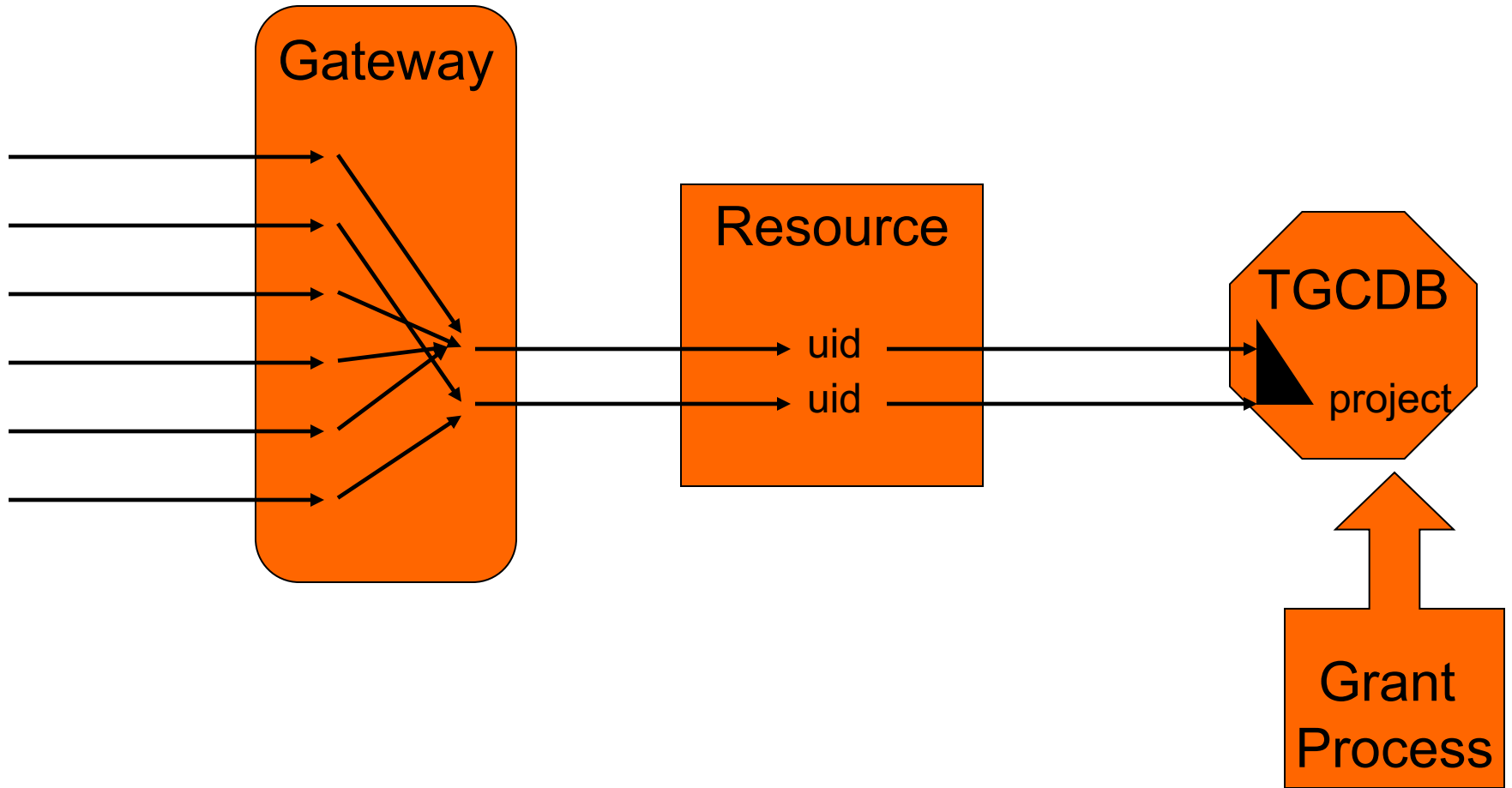
CUEING EVENT →



TeraGrid: Integrating NSF Cyberinfrastructure



Gateway Environment



Campus Participation in TeraGrid Objectives

- ◆ Planning for growth
 - $O(10) \rightarrow O(100)$ Resource Providers
 - $O(10) \rightarrow O(1,000)$ Science Gateways
 - $O(1,000) \rightarrow O(1,000,000)$ Users
- ◆ **Deep**: Enabling Petascale Science
 - TeraGrid User Portal
- ◆ **Wide**: Empowering Communities
 - Science Gateways Program
 - Education, Outreach, and Training
- ◆ **Open** Infrastructure, Open Partnership
 - Campus Partnership Programs



TeraGrid AAA Meeting Aug 30-31

- ◆ **Outsource identity management**
 - To campuses
 - To Science Gateways, most? to be operated by campuses
- ◆ **Allow but don't mandate shibboleth & federated identity approaches**
- ◆ **Attribute needs**
 - Persistent identifier
 - Citizenship (but might slip down rat-hole)
 - Maybe: campus affiliations, contact info
- ◆ **Testbed**
 - GridShib approach for Science Gateways
 - Push attributes into Resource Provider operating environments



Discussion

- ◆ Discussion
- ◆ Volunteers?

