EDGeS:
Enabling Desktop Grid for eSciences

- FP7 European project
- Two year project starting on 1/1/2008
- List of partners:
  - SZTAKI, Hungary
  - CIEMAT, Spain
  - Fundecyt, Spain
  - INRIA, France
  - IN2P3, France
  - Westminster University, UK
  - Cardiff University, UK
  - AlmereGrid, Netherlands
  - Coimbra University, Portugal
- Goal:
  - Standardize different existing Desktop grids (DG)
  - Implement a bridge between EGEE and DG
  - Propose a new DG - EGEE platform

XtremWeb at LAL for HEP
Full production platform

- Example: Auger shower simulation
- Process:
  - User submits jobs to XtremWeb (XW)
  - XW aggregates resources from several labs
  - Results are automatically uploaded

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**Main characteristics**

- Bypasses firewalls
- Three-tier architecture
- Mode "pull"
- Multi-protocols
- Multi-applications
- Security
- Multi-OS (Mac OS X, Windows, Linux)
- Cycle stealing
- Volunteer PCs

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**Bridging XWHEP->EGEE**

EGEE provides resources to XWHEP

**Main characteristics**

- Users submit jobs to XWHEP
- The XWHEP agent:
  - Checks for resource requirements
  - Submit XW workers to EGEE resources

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**Bridging EGEE->XWHEP**

XWHEP provides resources to EGEE

**Main characteristics**

- Users submit jobs to EGEE
- XW resources are accessible via standard GateKeeper interface
- XW computes EGEE jobs