



Enabling Grids for E-science

Resource Allocation

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- **Risk:**
 - Resource congestion due to LHC start-up
- **Impact:**
 - EGEE-III will see the start-up of LHC and the associated data transfer and analysis activities are likely to saturate the resources owned by the LHC experiments. As a consequence, other applications that were using these resources on a best effort basis might not be able to do so on the required scale.
- **Mitigation:**
 - This will be mitigated by encouraging existing and new communities to connect their resources to the EGEE infrastructure and by taking the predicted LHC resource usage into account in the EGEE-III resource availability planning.
 - The introduction of 'seed resources' will guarantee a pool of resources for new user communities during their initial deployment phases.
 - Of the 250 sites currently connected to the EGEE infrastructure, approximately 100 are not connected to the LHC programme and hence will not be subject to congestion caused by the LHC start-up.

- **Regions provide catch-all or regional VOs**
 - New users try out technology, understand benefits
- **All federations support any VO that has users in the region**
 - Via regional VO or set up dedicated VO
- **All partners commit small fraction of resources to new Vos**
 - Allow VO to get real experience, encourage to bring resources
- **Pool of seed resources requested**
 - To be run at 2-3 centres – dedicated to new communities not associated with partners
 - Centres to guarantee high level of resource access – SLA tbd
- **NA4 VO manager's group → identifies new partners eligible for support**
- **Core services allocated to (one of) set of sites agreed to provide services – assigned by Resource Allocation Group**
 - Ensure also that a new VO is needed rather than an existing one
- **VO ID cards mandatory**

- LHC VOs will probably use all of their pledged resources in the Tier 1 and Tier 2 sites (and CERN)
- EGEE has 250 sites; LCG Tier 1 and Tier 2 are ~ 150
- Not all resources available today are dedicated to LHC – some provided by other communities, regions without LHC interest
- Max non-LHC use today