

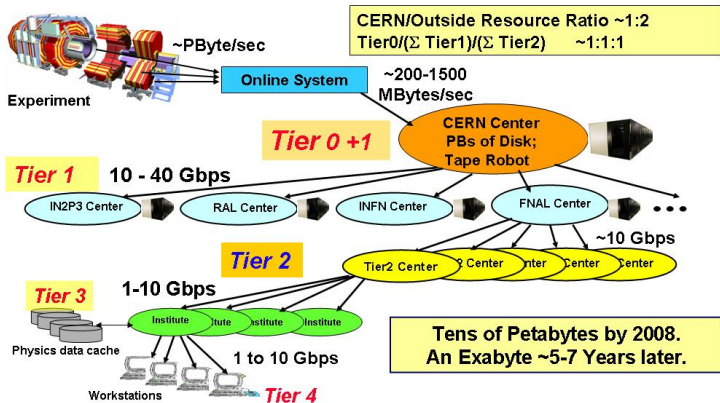
GridPP

Emyr James

January 16, 2013

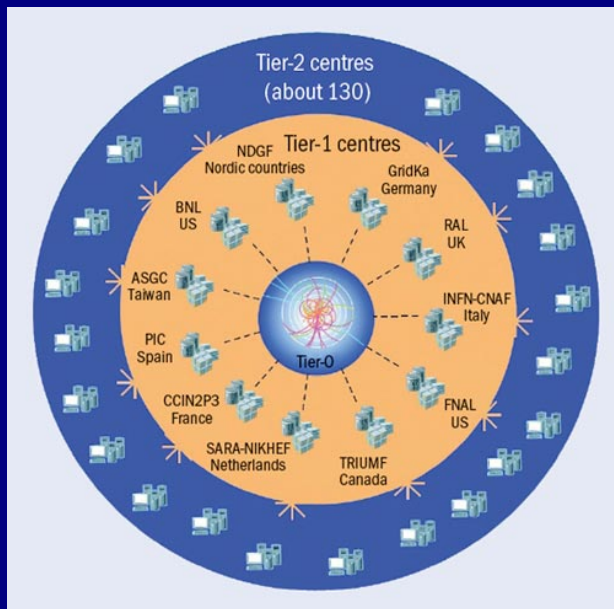
The WLCG - Worldwide LHC Computing Grid

LHC Data Grid Hierarchy:

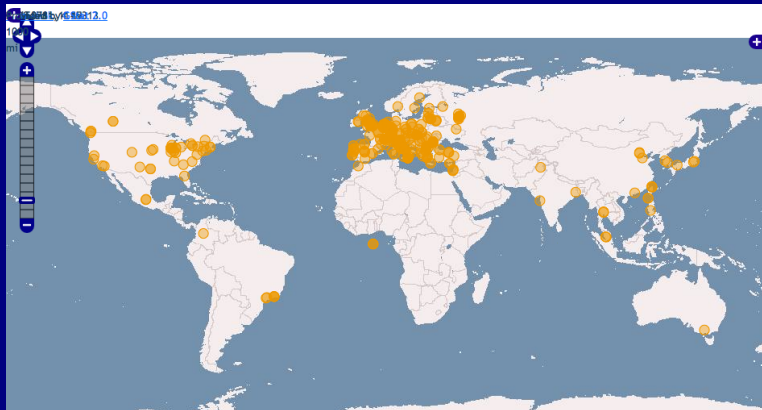


Emerging Vision: A Richly Structured, Global Dynamic System

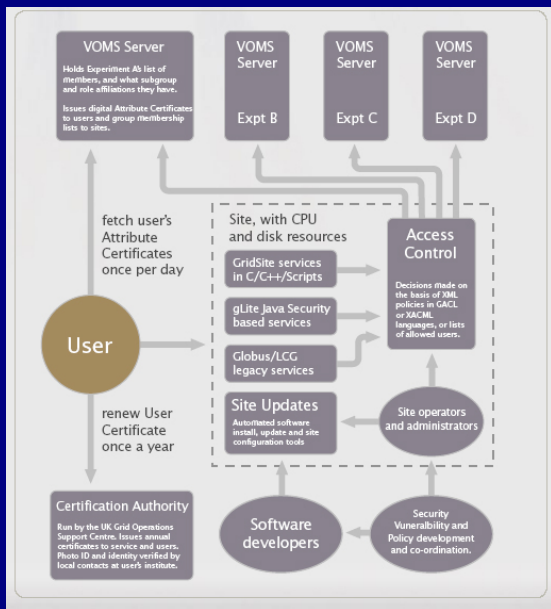
Tiered Structure



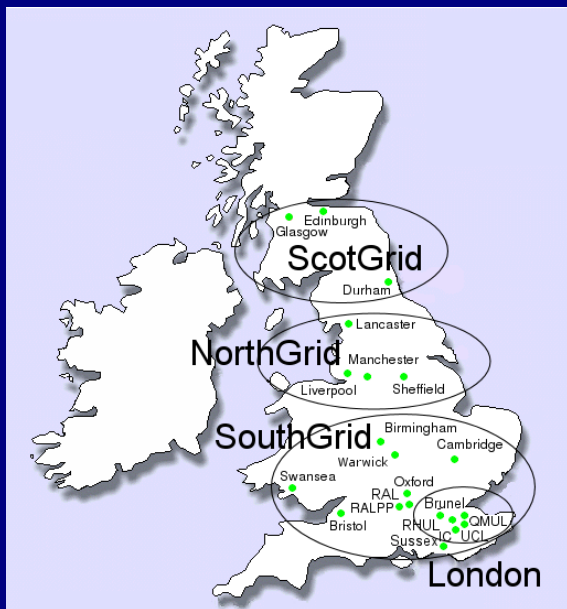
Truly Worldwide



Security Model



GridPP - UK Branch of the WLCG



Resources Available

SubGrid	Cores	Storage (TB)
RAL T1	9,432	8,946
London	10,136	5,033
North	7,312	2,923
Scot	7,032	1,753
South	5,756	2,730
Total	39,668	21,385

Sussex Tier2

- ▶ Aim to provide the bulk of EPP's resources to the grid.
- ▶ Try to soak up any spare capacity on the cluster as a whole.
- ▶ The more work we do, the more funding we get which enables us to expand the cluster
- ▶ Have already managed to get 28k for Infiniband upgrade and another 5k due to being a member
- ▶ Everybody benefits - more grid jobs - more money - more kit

Using GridPP

- ▶ GridPP very keen to support non-Particle Physics VO's, especially non-Physics
- ▶ Can secure more funding from Government if we can prove that it's a valuable resource to the whole UK
- ▶ Can use Southgrid VO to test jobs and to see if using the grid will work for your research
- ▶ If that works out, can create a fully fledged VO which all of GridPP can then choose to start supporting
- ▶ Can also piggyback on some generic NGI VO's (National Grid Infrastructure)
- ▶ The SNO+ Collaboration are doing this now
- ▶ Not suitable for MPI jobs - good for serial jobs e.g. Monte Carlo, data processing, parameter sweeps etc.