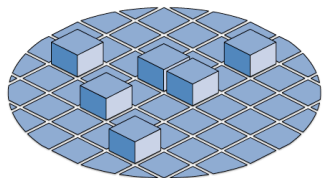




Industry Panel

David Snelling
Fujitsu Labs Europe
Grids@Work, Sophia Antipolis, October 13, 2005



UniGrids

Notions of Grids

+ Virtual Organization Grids

- Multiple institutions, secure, widely distributed
- Collaborative agreements or commercial partnerships

+ Intra-Enterprise Grids

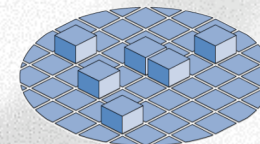
- Centralized management of multiple platforms
- Aggregation of enterprise resources and applications

+ Clusters

- Networks of Workstations, Blades, etc.
- Cycle scavenging, Homogeneous workload

+ Parallel Processing System

- Distributed memory parallel processing
- Single applications and ensemble suites



UniGrids

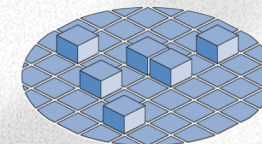
Grid Middleware Today

+ Only Proprietary Implementations

- Unicore
- Globus 2
- LCG2
-

+ Most Business is Intra-Enterprise

- Oracle 10g
- Fujitsu Triole
- IBM On Demand
-



UniGrids



Grid Middleware Development

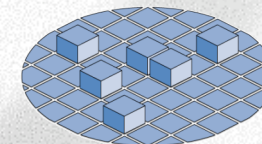


+ Web Service Based

- Globus 4
- Unicore/GS
- gLite
-

+ Vendor Interest Growing

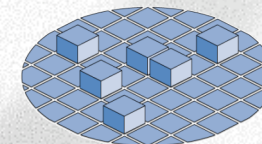
- Emergence in standards
 - WS-Management, WS-Resource Framework, ...
- Still focused mostly on intra-enterprise Grids



UniGrids

Impediments to Uptake

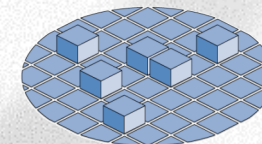
- + **Performance and Scalability Focus**
 - Security and operational integrity are critical.
- + **Service Level is Typically only Best-effort**
 - Need for a Service Level agreement infrastructure.
- + **Resource Allocation Done via “Tokens”**
 - Transition to an open marketplace needs currencies.
 - Unreliable Costs Estimates
- + **Diversity of Commercial Applications**
- + **Lack of Stability in Platforms/Standards**
- + **Application Licensing**
- + **Management Complexity**



UniGrids

Inspiring Growth in Grid

- + Business Models
- + Standards
- + Business Models
- + Standards
- + And
- + Business Models



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