

# Platform™

Globus Unleashed: Platform's  
Commercial Support of the  
Globus Toolkit

*Ian Baird*

## Grids

The coordinated, transparent and secure sharing of IT resources across geographically distributed sites.

Built on standards for maximum interoperability.

Grids deliver integrated solutions that facilitate virtual collaboration.

# Drivers: Optimize Capabilities

## Virtual organizations

- New organization structures via new infrastructure
- Collaborative computing

## New class of capability computers

- Potential to solve some very large parallel problems

## New business models

- Outsourcing of computing tasks
- Utility computing business
- Peak load support
- Catastrophe planning

# Drivers: Optimize Infrastructure

## Resource optimization

- Maximize return on capital equipment by accessing spare cycles

## Resource access

- Provide mechanism to share specialized resources across organizational boundaries

## Cost sharing

- Allow multiple groups to contribute resources to a project while maintaining control of the resources

## Improved management model

- Incorporate multiple systems in an organization under a single unified systems model

# Grid Momentum

Grid technology following classic adoption curve

- Out of academic arena
- Commercial applicability
- Wide range of application targets
- Emerging interoperability requirements
- 'Whole product' requirements
- Rapid IT pace

# Market Impact of Grids

## Market accelerator features

- May enable more complex simulation and modeling efforts
- Expands access to databases and results
- Speeds communications between collaborators

## Market dampening features — extends buying cycle through efficiencies

- Less duplication of resources
- Greater use of existing resources
- Assumes resources are not near full utilization

# Partnership foundation

## Globus

- Leader in scientific and technical grid installations
- Technology captured in open-source toolkit
- Grid building experience

## Platform

- Leading commercial load balancing solution world-wide
- Wide range of customers, across industry verticals
- LSF brand equity
- Product building experience

# Platform delivers Globusä Functions

Automated installation, configuration and verification

Pre-built, self-contained distributions of the Globus Toolkit™ for Compaq Tru64 5.x, IBM AIX 4.3.x and SGI IRIX 6.5.x

Enhancements to Platform LSF™ and Globus Toolkit™ for improved interoperability

# Platform delivers Globusä Functions

Stand-alone certificate authority

Technical documentation

Technical support

Professional services

Technical training

Provide reverse feedback to Globus  
regarding bug fixes, user requirements

drive Globus product life cycle

# Grid types

**Compute  
grids**

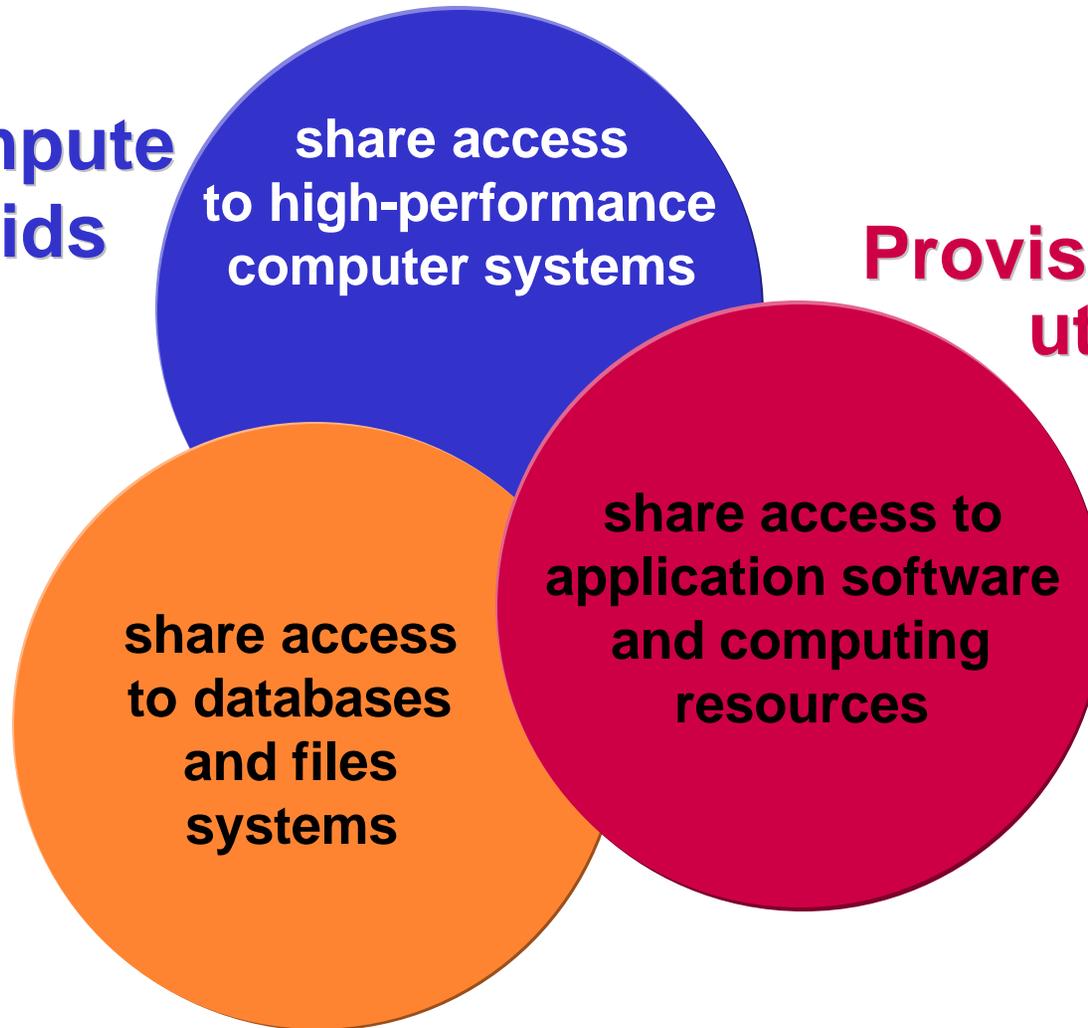
share access  
to high-performance  
computer systems

**Provisioning or  
utility grids**

**Data  
grids**

share access  
to databases  
and files  
systems

share access to  
application software  
and computing  
resources



# Platform Grid Suite

User/Web  
Services

Grid Portals

Global  
Services

Grid Manager

LSF MC NXT

Avaki

Globus

LSF MultiCluster

Local  
Services

LSF

AC

P2P & other

Resources



Desktops to Supercomputers



## Grid Suite Components

- Integration of Platform technologies:
  - Workload Management
  - Performance Management
  - Resource Management

with best of breed technologies

Integration of Globus services

- Leverages expertise and customer base
- Desktops to supercomputers

# Platform Investment

Product management role and technical team in place

Training of Technical support and Professional services underway

Ian Lumb ....

<http://www.platform.com/grid/index.asp>