



GlobalGridForum

Leading the pervasive adoption of grid computing
for research and industry

Grid Computing – The path to pervasive adoption

Grid World 2005

Mark Linesch

Chair, Global Grid Forum (GGF)

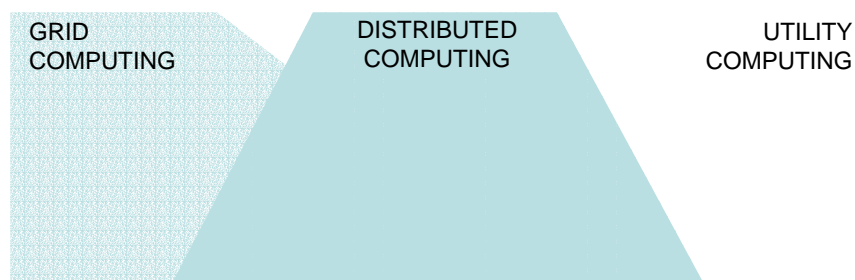
May 2005

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Perspectives – the industry is on a journey

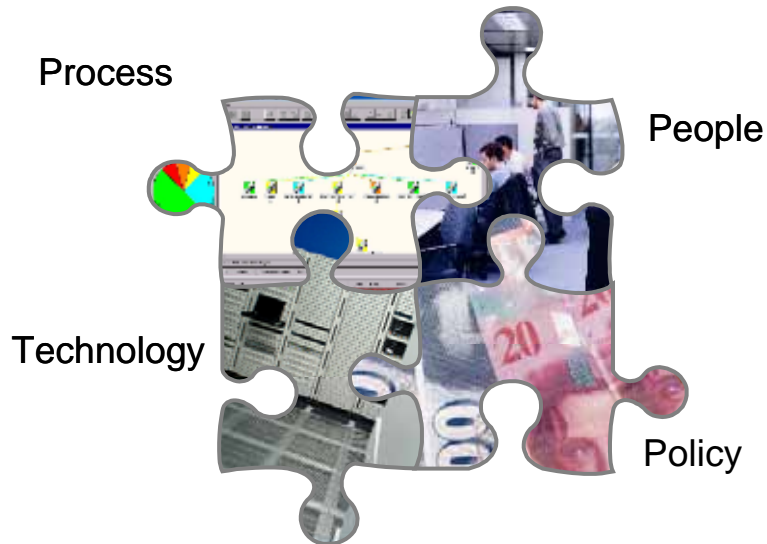
Overlapping concepts and terminology...



But, common and compelling themes

- Lower costs through automation and better utilization
- Improve integration and collaboration
- Enable discovery, innovation and growth

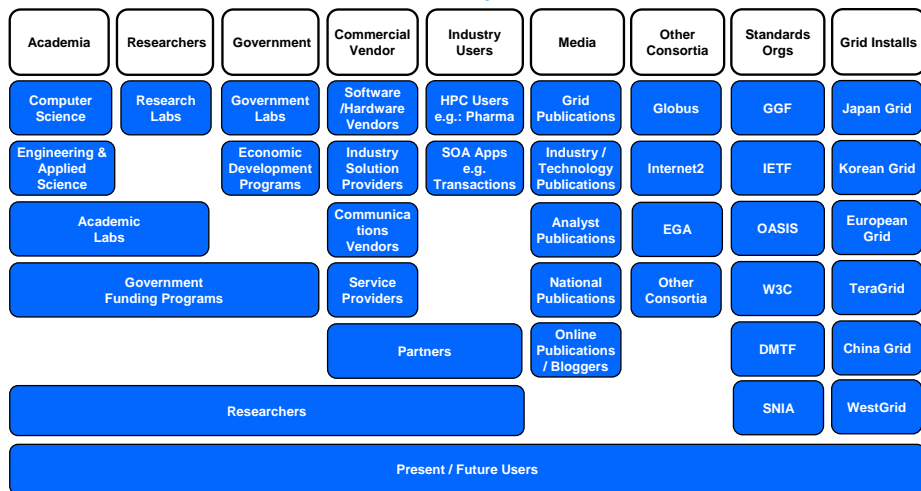
Journey must comprehend a challenging set of issues



... while nurturing a vibrant ecosystem of value

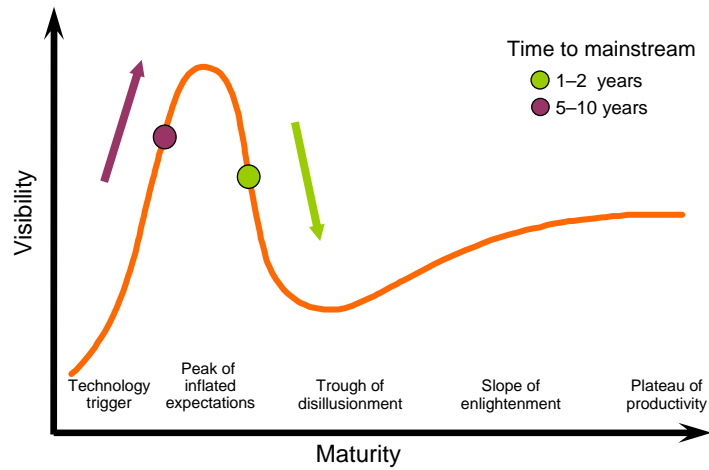


Grid Ecosystem

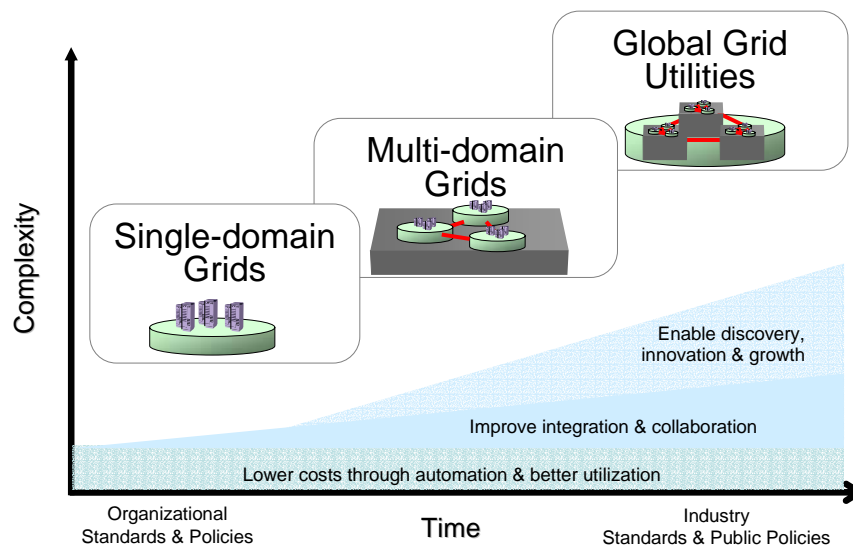


KEY
HPC = High Performance Computing
SOA = Services Oriented Architecture

... and managing expectations along the way



Adoption will progress in stages



While the journey is difficult ...



... progress is already well underway

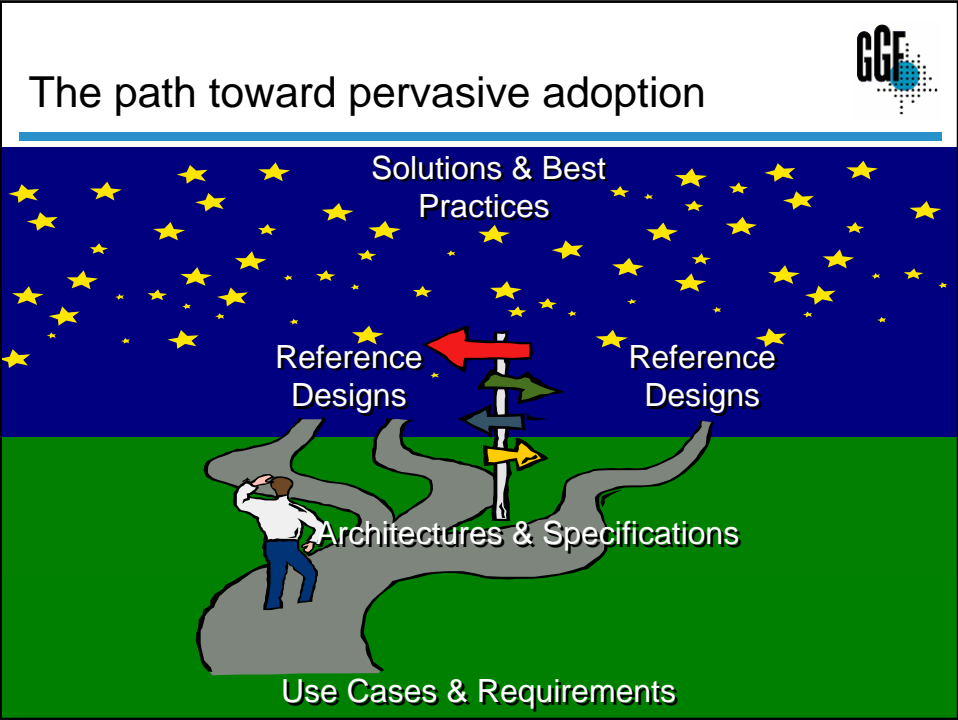
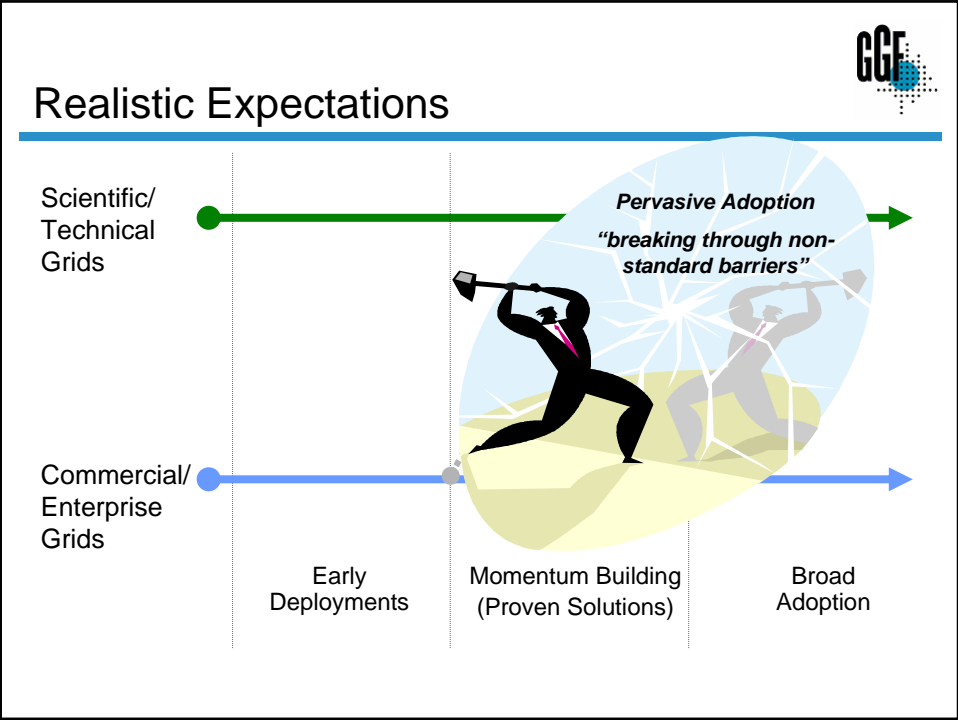


More than 70% of large enterprises report using service-oriented architectures (SOA) now.

29% of large enterprises have an enterprise-level commitment to SOA, and 19% are using SOA for strategic business transformation.

Internal integration is the predominant use of SOA, though SOA-based external integration has a strong presence among large enterprises.

November 2004, Forrester
Survey of 116 North American decision-makers



Use Cases & Requirements – Provide patterns and inform us about common and unique attributes



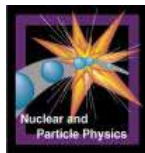
Research



ASTRONOMY



SEVERE WEATHER



PHYSICS

AND MORE...

Industry



TRANSPORTATION



ENERGY



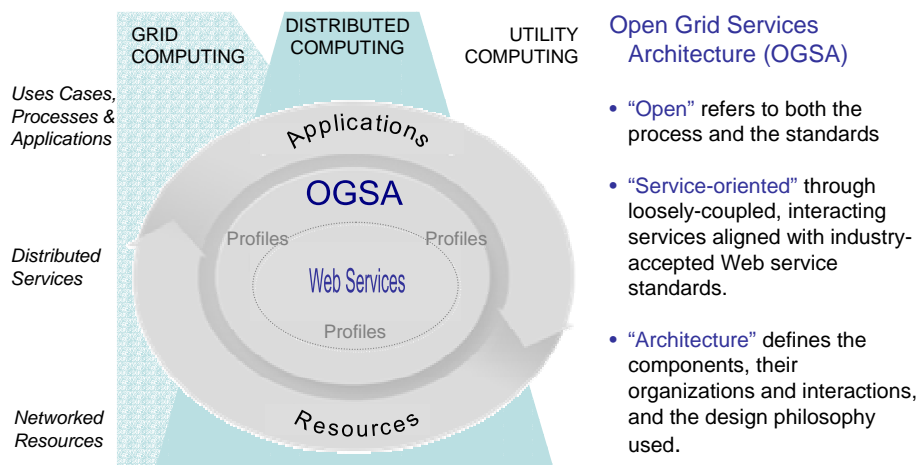
FINANCE



DESIGN

AND MORE...

Architectures & Specifications – provide the blueprint



Open Grid Services Architecture (OGSA)

- “Open” refers to both the process and the standards
- “Service-oriented” through loosely-coupled, interacting services aligned with industry-accepted Web service standards.
- “Architecture” defines the components, their organizations and interactions, and the design philosophy used.

Reference designs - transform specifications into software that can be leveraged by the community



Welcome to The Globus Consortium



Solutions & Best Practices – accelerate adoption



Grid Users



Grid Developers



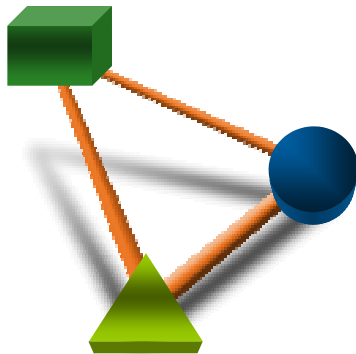
Grid Operators

Case studies and success stories

Best practices for operation and management

Federation/collaboration policies and processes

Collaboration on international standards is essential to enabling adoption



*It's heterogeneous,
networked world*

Benefits ...

- Comprehensive solutions
- Trained, available expertise
- Industry investment and leverage
- Greater choice and availability

Global Grid Forum – Leading the pervasive adoption of grid computing for research and industry



Communities

400 Organizations
50+ Countries

Standards

Open Grid Services
Architecture

Operations

Special Thanks!

GGF Japan-based Sponsors

Grid Consortium Japan	AIST	Hitachi
Fujitsu	Nihon Unisys	NEC NTT



The door is open to GGF benefits

During 2006, GGF17 will be held in Japan with Grid World!

- Global Standards
- Research Insight
- Deployment Best Practices
- Commercial Engagement



Thank you!