



Grid – Path to Pervasive Adoption

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Industry is on a journey



Old World

Static

Silo

Physical

Manual

Application



New World

Dynamic

Shared

Virtual

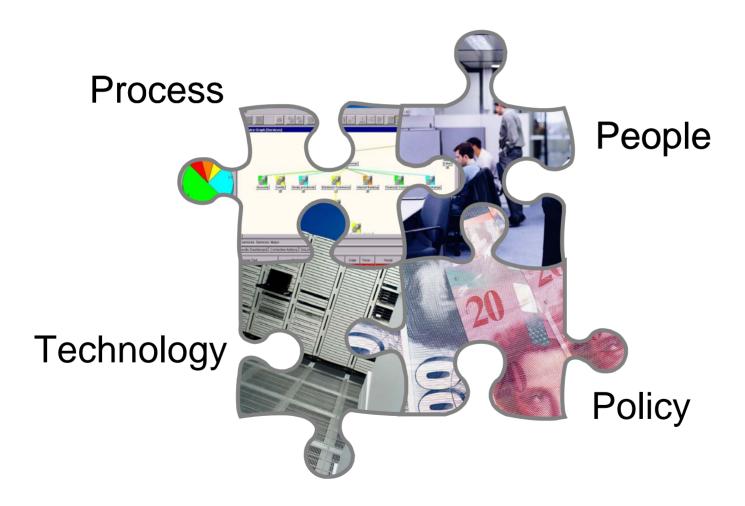
Automated

Service



Journey must comprehend a challenging set of issues

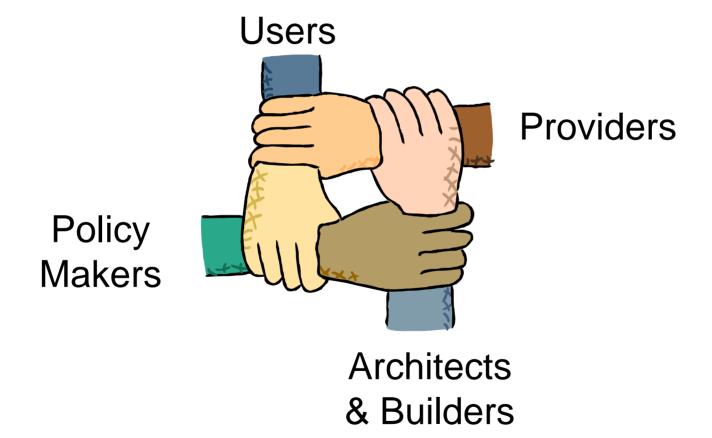






... while nurturing a vibrant ecosystem of value





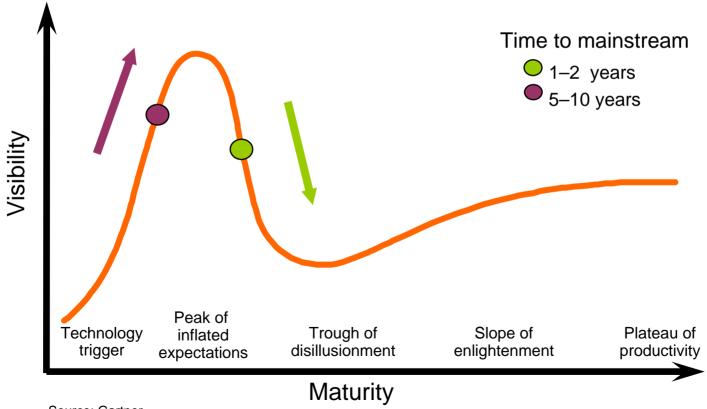
eScience

eBusiness



... and managing expectations along the way



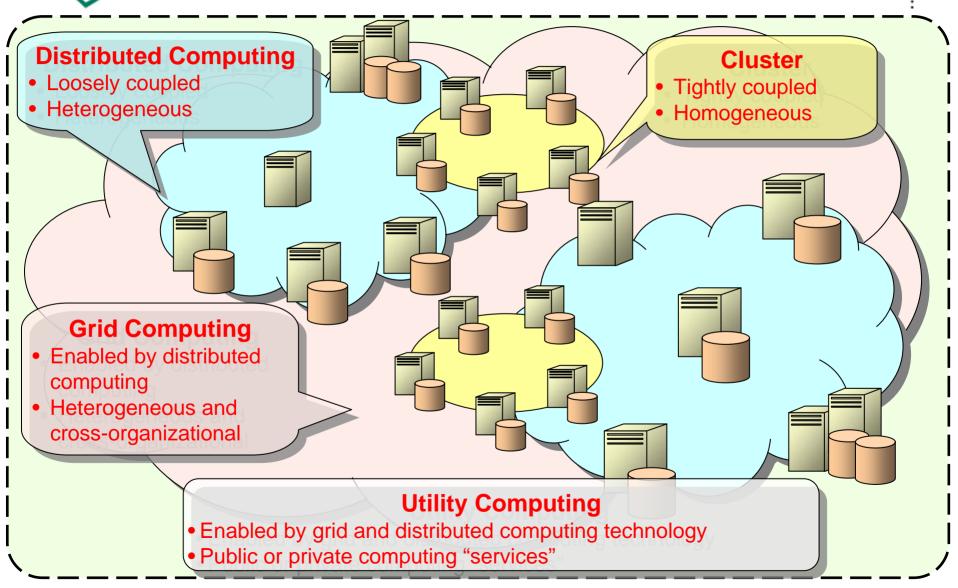


Source: Gartner



Grid & Related Paradigms

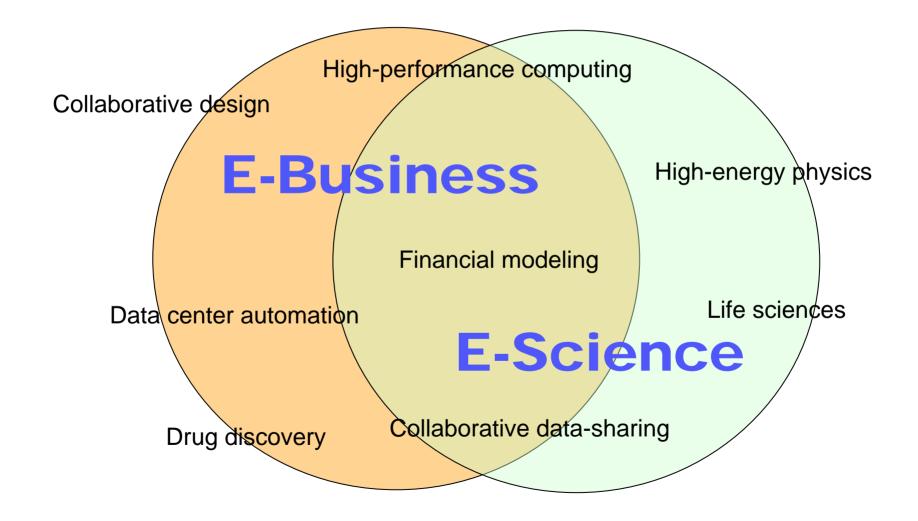






How Are Grids Used?







Grids



with the associated technologies (virtualization, automation, service orientation)

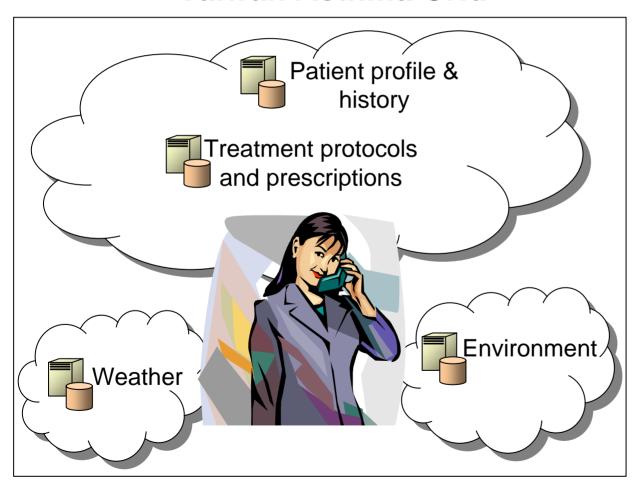
are about transforming how science, business and IT is done



Example – Transforming Health Care



Taiwan Asthma Grid

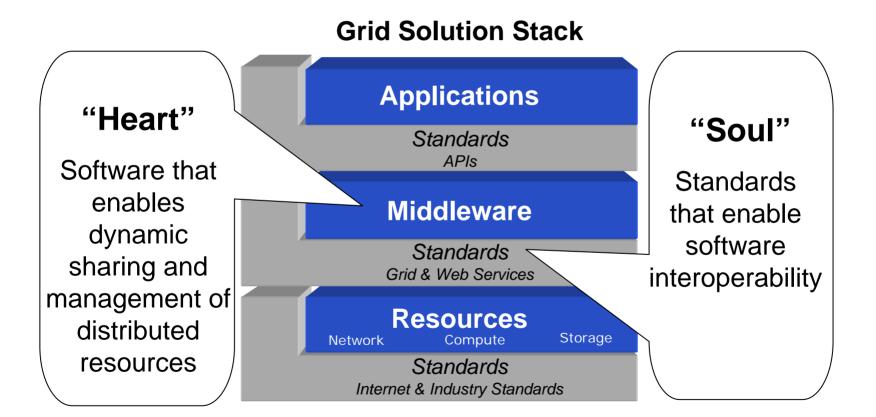


- Improved patient care
- Lower public health care costs
- More effective drugs and treatment protocols



The "heart" and "soul" of a grid solution







Key Requirements for Grid Middleware



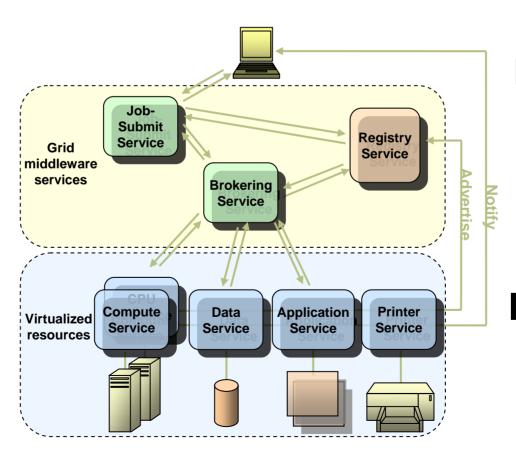
Secure authorization, role and access privileges

Execute

and manage jobs/services

Resource discovery, monitoring &

control



Data access, transfer and management

Information

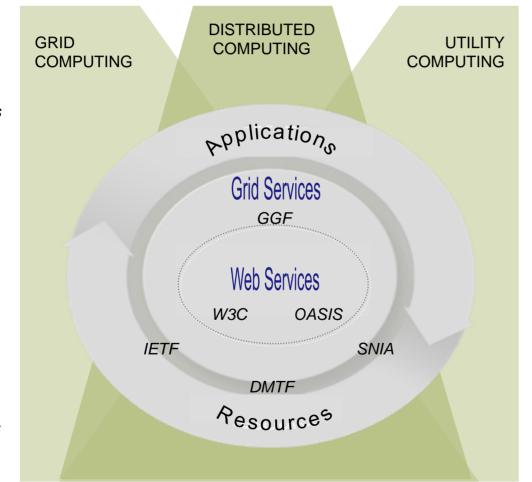
about applications & resources



Standardization



Requires collaboration across the broader distributed computing industry



Requirements

- An open, serviceoriented architecture (SOA)
- Built on a Web services infrastructure
- Resource virtualization at the core

Applications

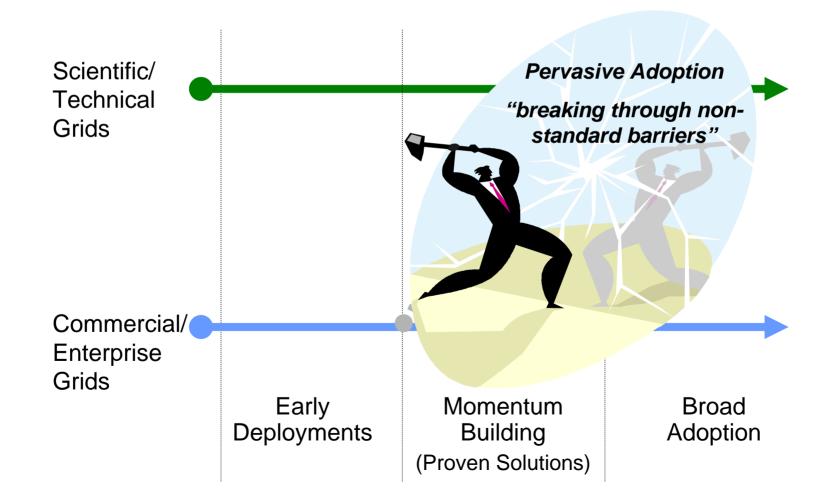
Services

Resources



Adoption will progress in stages







The path to pervasive adoption







EGA and GGF Accelerating grid adoption



Standards

Community

Collaboration



Grid & Distributed Computing
Communities

Thank you!