

GGF18

September 11-14, 2006
Washington, DC, Convention Center

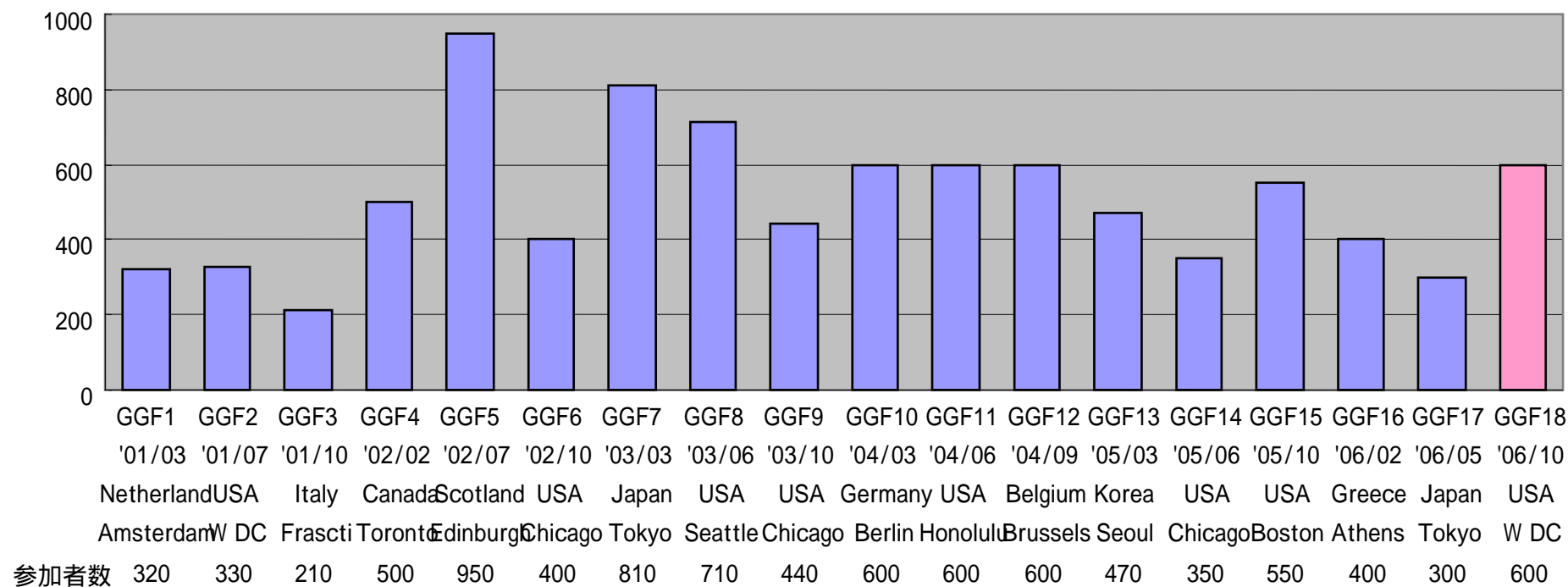


Overview

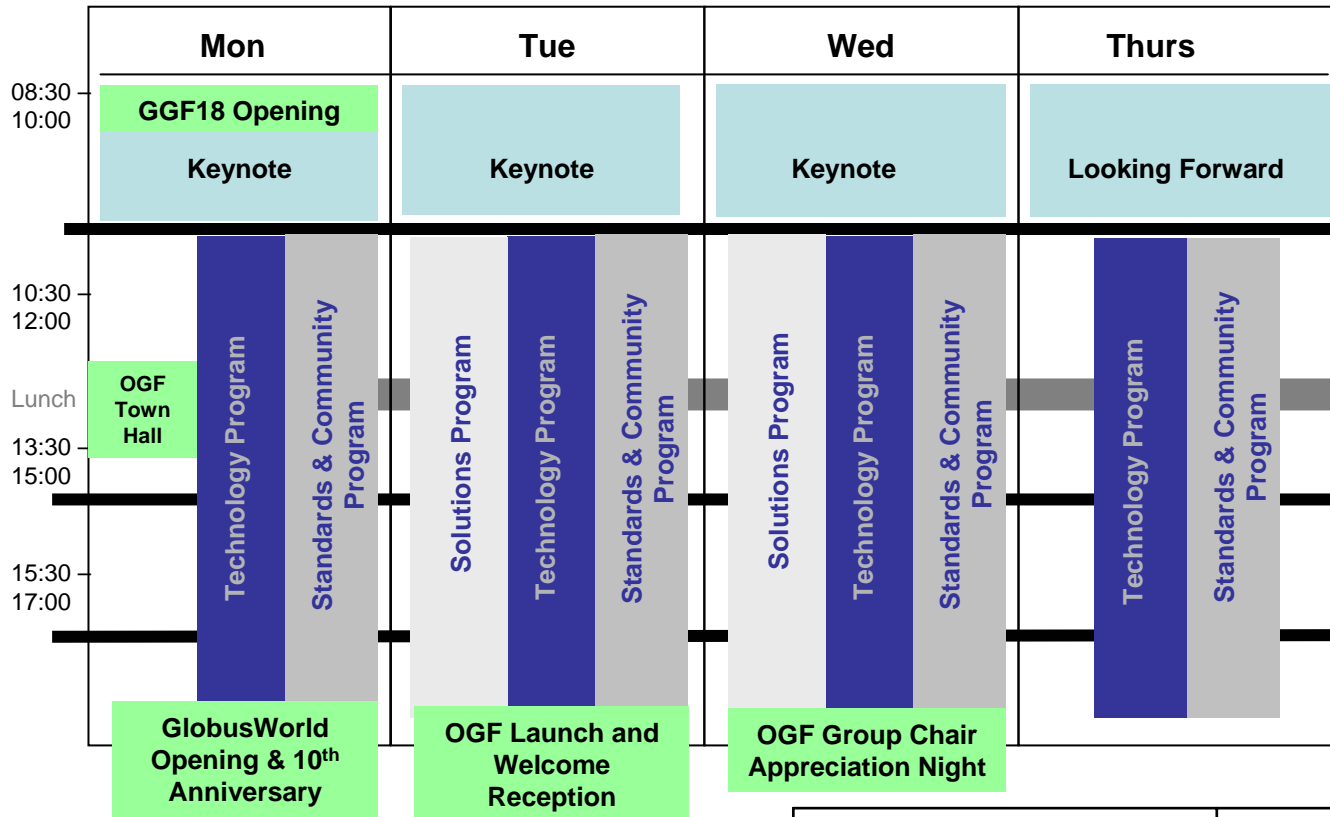
- GGF 18 / GridWorld / Globus World 併催
 - ▶ EGAとの合併後最初のGGF
 - ▶ 米国では二度目のGridWorld
 - ▶ GlobusWorld 開発開始から10周年
- 参加者約600人
- 66 Standardセッション、43 Communityセッション
- 組織改変
- 今後のGGF
 - @ GGFからOGFへ会合名も改名（ただし番号は継続）
 - @ OGF19@ノースカロライナ 1/29-2/2, 2007

参加者数

参加者：約600人が参加



GGF 18 / GridWorld / GlobusWorld



GridWorld

GlobusWorld

GGF18

參加費 (\$)	Early-Bird	Advance	Onsite
All Event Passport	1295	1495	1595
Solutions Program	995	1150	1295
Technology Program	695	850	995
Community Program	595	695	795
Standards Program			
One Day Pass	295	395	495

Solution Program

IDG

- A Throughput-Intensive Compute and Storage Grid Using SAS Grid Manager
- Grid for Business Information: Extracting Maximum Value From Information
- Case Study: HealthCare Augusta
- Case Study - Wachovia Virtualization - Key Enabler for SOA/SOI, Utility, and Distributed Application Architectures
- Sun Microsystems: Benefits of Sun Grid and Utility computing - oriented towards business benefits with technical focus.
- Grid Computing in Small and Medium Businesses: Case Studies from the Real World
- Exploring the cash flows and paybacks for Grid Computing
- The Business Case for Grid (Why You Should Care)-Grid 2.0 - Grid and communications go commercial
- Virtualization with Enterprise SOA
- How to Rethink Your Business Processes to Capitalize on Grid-Enabled Virtualization
- NCSA's Commercial Initiatives: Building a Large-Scale Grid Infrastructure
- PANEL DISCUSSION: Uses of Grid in the Pharmaceutical Industry
- The Big Picture / Orientation: Aligning IT with Business Needs to Achieve Agility, Efficiency and Innovation using Grid Technology.
- Grid Computing at DataRoad
- Panel Discussion - How to Use Grid to Manage Spiraling Licensing Costs
- The Challenges and Opportunities of a Multi-Vendor Grid

Globus

- Globus Solutions Overview - Production Use in eBusiness and eScience
- Globus Based Data Grid Solutions - Use Case Scenarios
- Globus Based Service Delivery Solutions - Use Case Scenarios
- Globus Case Study: The BROADEN Project
- Globus Case Study - Organization and Infrastructure of the Cancer Biomedical Informatics Grid
- Globus Case Study - BBC Grid Cast: Globus Based Media Distribution-Case Study
- Globus Case Study - GADU: A High-throughput Computational System for Genome Analysis
- Building a National Grid Initiative around Globus - Lessons Learned and Recommendations
- Unlocking Innovation in Your Enterprise
- Service Oriented Grid Management: Managing grid resources the SOA way
- On-Demand Grid Network Solution: Technical Case Study
- Virtualized and On-Demand Network Support for Grid and Service-Oriented Computing Models

Technology Program

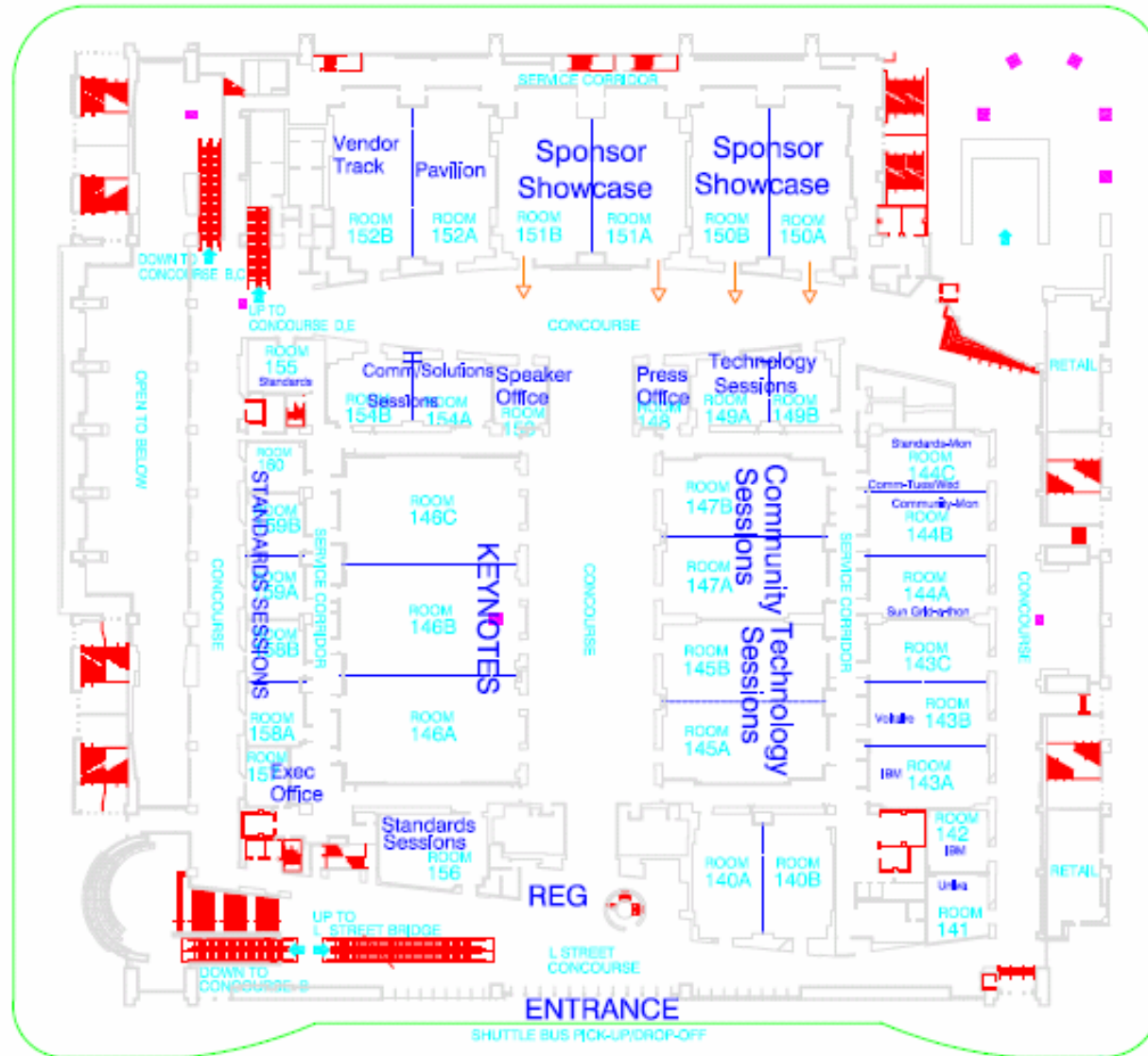
IDG

- The Future of HPC Technologies in the Enterprise: Examining the Roles of Linux, Virtualization and Management Software
- Harvesting Computational Resources Across Administrative Domains
- BLAST and Data Grid at Texas Tech University
- CASE STUDY: Creating and Using a SAS Grid at Texas Tech University
- Creating Grid - Based Data Infrastructures for the Enterprise
- Case Study - Fit to the Grids: Increasing Quality and Reducing Costs at Rabobank
- Advanced Data Strategies for Grid Deployments
- Case Study: Sharing Virtualized Resources Across Multiple Locations To Realize Greater Efficiencies at Fleet Numerical
- Collaborative Methods: Vocabularies and Common Data Elements
- SOA Infrastructures based on Grid Computing: Convergence or Synergy?
- Panel Discussion - Convergence of Grid and Virtualization
- Virtualization and the Grid Enabled Data Center: Driving New Business Models
- Service-centric Storage Grid
- Automated Parallel Applications
- Scaling Out Mainstream Business Applications: The Google Way
- Application Virtualization: Managing Shared Services across the Grid
- NCSA's "X-treme Cooling" Data Center
- Management Concerns in the Grid and Virtualization Worlds: Tools, Tips and Techniques

Globus

- Globus Execution Management for Architects
- OGSA-DAI for Developers
- Globus GRAM for Developers
- Globus MDS for Architects
- Globus MDS for Developers
- Globus Security in the Real World
- MyProxy in the Globus Toolkit for Developers
- Globus Data Management for Architects
- Globus Grid FTP for Developers
- Globus C Web Services Core for Developers
- Globus GT4 Administration
- Globus Extensible IO System (XIO) for Developers
- Globus Python Grid Tooling
- Globus Data Replication (RLS & DLS) for Developers
- Globus Java WS Core for Developers
- Globus Toolkit Roadmap
- Globus Virtual Workspaces for Architects
- Globus RFT for Developers
- The Globus Incubation Management Project

会場



Photo

Keynote会場



GlobusWorld
Opening & 10th
Anniversary



GridWorld 2006



Gold Sponsor



35

Silver Sponsor



20

Bronze Sponsor



10



Turnkey



6



Grid Showcase

GridWorld2005(Boston)よりは大きくなった
セッションの合間にオープン

- Tuesday, September 12:
 - ▶ 8:00 AM - 9:00 AM
 - ▶ 9:45 AM - 10:00 AM
 - ▶ 11:30 AM - 1:30 PM
 - ▶ 3:00 AM - 4:00 PM
 - ▶ 6:00 PM - 8:00 PM
- Wednesday, September 13:
 - ▶ 8:00 AM - 9:00 AM
 - ▶ 9:45 AM - 10:00 AM
 - ▶ 11:30 AM - 1:30 PM
 - ▶ 3:00 PM - 4:00 PM



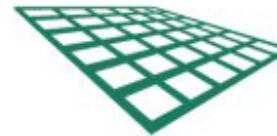
Open Grid Forum



<http://www.ggf.org>

- Birthed in high performance computing community in 1998
- Merged with European & Asian grid efforts in 2001
- 52 groups and 81 documents

Enterprise
Grid Alliance



<http://www.gridalliance.org>

- Birthed in enterprise data center community in 2004
- Raised awareness of grids in “end-user” organizations
- 5 groups and several important documents



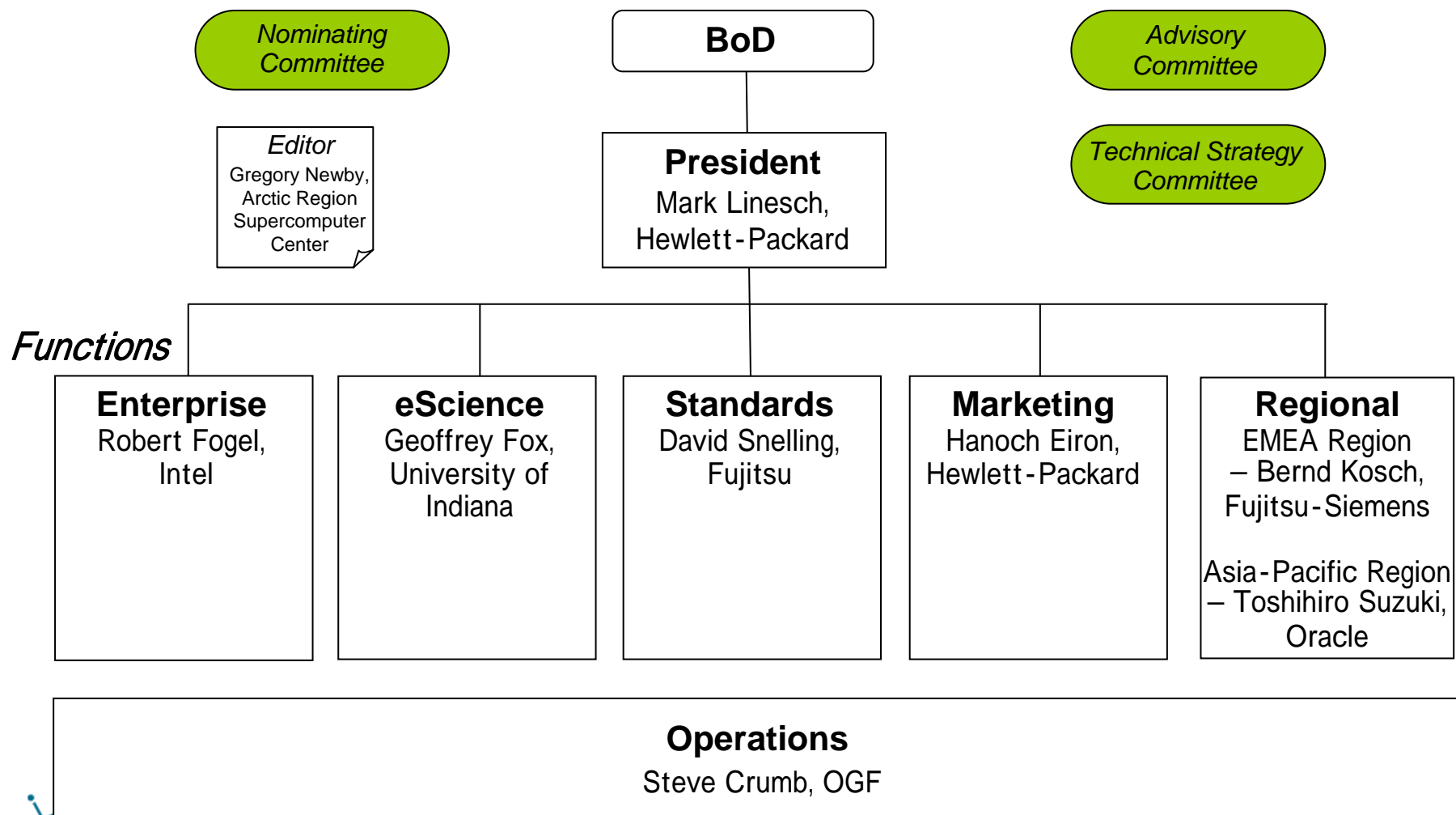
Open forum for grid
innovation and outreach

OpenGridForum
OPEN FORUM | OPEN STANDARDS

Open standards for grid
software interoperability

Consortium Japan
グリッド協議会

Organization



Committees

Advisory Committee
(ADCOM)

- Community outreach/integration
- Strategic insight and advise

Nominating Committee
(NOMCOM)

- Run nomination processes
- Leadership recommendations

Technical Strategy
Committee (TSC)

- Orchestrate Technical Strategy
- Strategy & Roadmap Document

Advisory Committee (ADCOM)

- Bill Feiereisen, Los Alamos National Laboratory
- Kyriakos Baxevanidis, CEC
- Wolfgang Boch, European Commission
- Frederica Darema, US National Science Foundation
- Cheryl Doninger, SAS
- Ian Foster, ANL and The University of Chicago
- Fabrizio Gagliardi, Microsoft
- Alexander Gebhart, SAP
- John Hurley, The Boeing Company
- Lennart Johnsson, University of Houston,
- Jysoo Lee, KISTI
- Alexander Reinefeld, ZIB Berlin
- Mary Anne Scott, US Department of Energy
- Satoshi Sekiguchi, AIST

NOMCOM 2007

Nomination deadline Sunday, November 19th, 2006

Open Positions

▶ Standards:

- Ⓜ - Vice President Standards (1)
- Ⓜ - Area Director Architecture (1)
- Ⓜ - Area Director Infrastructure (1)

▶ Enterprise:

- Ⓜ - Area Director End User Requirements (1)
- Ⓜ - Area Director Vendor Adoption (1)
- Ⓜ - Area Director End User Adoption (2)
- Ⓜ - Area Director Best practices (2)

▶ Marketing:

- Ⓜ - Area Director At Large (3)

▶ Operations:

- Ⓜ - Area Director Membership (1)

Board-of-Directors

- Board of Directors provides strategic and policy guidance while helping to insure the ongoing health of the organization
- Comprised of 10 Organizational members plus 5 At-Large members

Organizational

- Ian Baird (EMC)
- Bernd Kosch (Fujitsu-Siemens)
- Martin Walker (Hewlett-Packard)
- Ken King (IBM)
- Tom Gibbs (Intel)
- Tony Hey (Microsoft)
- Mike Szelong (Network Appliance)
- Bob Thome (Oracle)
- Chris Purpura (Platform Computing)
- Malcolm Atkinson (UK e-Science)

At-Large

- Dr. Bill Nitzberg (Altair Engineering)
- Paul Strong (eBay)
- Dr. Hiro Kishimoto (Fujitsu)
- Jason Carolan (Sun Microsystems)
- Charlie Catlett (TeraGrid, University of Chicago/Argonne Labs)

Organizational Member Program

	Platinum \$50K	Gold \$25K	Silver ¹ \$10K
INFLUENCE...On Directions and Priorities			
Board Participation, Nomination, and Voting²			
Eligible to serve as board member	Organizational	At-large	At-large
Eligible to vote for board nominees	All	At-large	
Eligible to nominate At-large candidates	✓	✓	✓
Invitations to Technical Strategy Committee Briefings	4	1	-
Eligible for Operational Leadership Positions ³	✓	✓	✓
RECOGNITION...As a Leader Driving Grid Adoption			
Co-branded Programs and Materials	Exclusive	Shared	
Visibility through OGF Marketing Channels	Pervasive	Significant	Selective
Participation in OGF Event Program Committees	✓	✓	✓
INSIGHT...Into Grid Standards and Best Practices			
Invitations to “Meet the Experts” Activities	4	1	
Early Access to Documents and Roadmaps	✓	✓	✓
Discounts at OGF and Industry Events	✓	✓	✓

Y2006 Organizational Member

● Platinum Organizational Members

- ▶ EMC
- ▶ Fujitsu - Siemens
- ▶ Hewlett-Packard
- ▶ IBM
- ▶ Intel
- ▶ Microsoft
- ▶ Oracle
- ▶ Platform Computing
- ▶ Network Appliance
- ▶ UK e-Science Programme

● Gold Organizational Members

- ▶ AMD
- ▶ Fujitsu
- ▶ Hitachi, Ltd.
- ▶ KISTI/GFK
- ▶ National Institute of Advanced Industrial Science and Technology, Japan (AIST)
- ▶ Nortel
- ▶ Shell Exploration

● Silver Organizational Members

- ▶ Australian Partnership for Advanced Computing (APAC)
- ▶ Ciena
- ▶ CoreGRID
- ▶ Dell
- ▶ Fermi Lab
- ▶ Force10 Networks
- ▶ Fraunhofer Grid Alliance
- ▶ Grid Consortium Japan
- ▶ Informatica
- ▶ Internet2
- ▶ Karlsruhe Forschungszentrum
- ▶ National Center for High-Performance Computing (NCHC)
- ▶ National Computational Science Alliance (NCSA)
- ▶ National Energy Research Scientific Computing Center (NERSC)
- ▶ NEC
- ▶ San Diego Supercomputer Center (SDSC)
- ▶ SAS Institute
- ▶ Symantec
- ▶ United Devices
- ▶ US Department of Defense

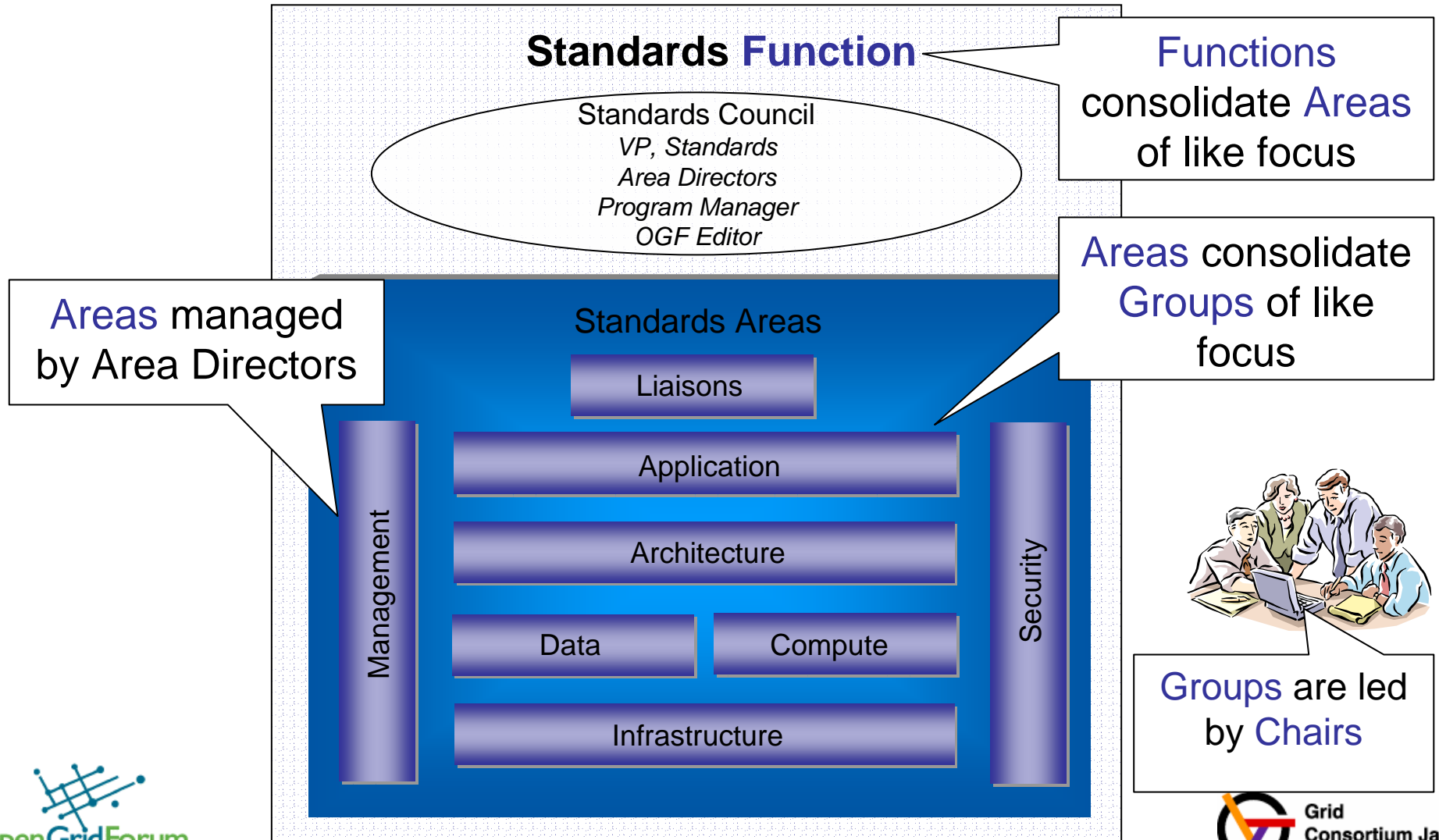
Operating Structure

Functions manage “Areas” of like focus and are led by Vice Presidents.

Areas manage multiple Groups and are led by Area Directors

Groups pursue charters that includes milestones and deliverables

Functions/Areas/Groups/Chairs



eScience/Enterprise Functions

eScience Functions (19 Groups)

Community Affairs	<ul style="list-style-type: none"> •Education and Training (et-cg) •GGF Process WG (ggf-proc-wg) •Grid Benchmarking RG (gb-rg) •Grid Reliability and Robustness RG (gridrel-rg)
Grid Operations	<ul style="list-style-type: none"> •Certificate Authority Operations RG (caops-wg) •Grid Interoperation Now Community Group (gin-cg) •Production Grid Services-RG (pgs-rg)
Research Applications	<ul style="list-style-type: none"> •Applications Developers and Users RG (apps-rg) •Astronomy Applications RG (astro-rg) •Humanities, Arts, and Social Sciences RG (hass-rg) •Life Sciences Grid RG (lsg-rg) •Particle and Nuclear Physics Applications RG (pnpa-rg) •Preservation Environments RG (pe-rg)
Technology Innovators	<ul style="list-style-type: none"> •Advanced Collaborative Environments RG (ace-rg) •Appliance Aggregation RG (appagg-rg) •Grid Computing Environments RG (gce-rg) •Semantic Grid RG (sem-rg) •User Program Development Tools for the Grid RG (updt-rg) •Workflow Management RG (wfm-rg)

Enterprise Functions (2 Groups)

Industry Applications	<ul style="list-style-type: none"> •Enterprise Grids Requirements RG (egr-rg) •Telecomm Community Group (telco-cg)
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Standards Function

Applications	<ul style="list-style-type: none"> •Distributed Resource Management Application API WG (drmaa-wg) •Grid Checkpoint Recovery WG (gridcpr-wg) •Grid Information Retrieval WG (gir-wg) •Grid Remote Procedure Call WG (gridrpc-wg) 	<ul style="list-style-type: none"> •Simple API for Grid Applications Core Working Group (saga-core-wg) •Simple API for Grid Apps RG (saga-rg)
Architecture	<ul style="list-style-type: none"> •OGSA Naming Working Group (ogsa-naming-wg) •Open Grid Services Architecture WG (ogsa-wg) 	
Compute	<ul style="list-style-type: none"> •Grid Resource Allocation Agreement Protocol WG (graap-wg) •Grid Scheduling Architecture RG (gsa-rg) •Job Submission Description Language WG (jsdl-wg) •OGSA Basic Execution Services WG (ogsa-bes-wg) •OGSA High Performance Computing Profile WG (ogsa-hpcp-wg) •OGSA Resource Selection Services WG (ogsa-rss-wg) 	
Data	<ul style="list-style-type: none"> •Data Format Description Language WG (dfdl-wg) •Database Access and Integration Services WG (dais-wg) •Grid File System Working Group (gfs-wg) •Grid Storage Management WG (gsm-wg) •GridFTP WG (gridftp-wg) 	<ul style="list-style-type: none"> •Info Dissemination WG (infod-wg) •OGSA ByteIO Working Group (byteio-wg) •OGSA Data Movement Interface WG (ogsa-dmi-wg) •OGSA-Data Working Group (ogsa-d-wg) •Storage Networking Community Group (sn-cg)
Infrastructure	<ul style="list-style-type: none"> •Grid High-Performance Networking RG (ghpn-rg) 	<ul style="list-style-type: none"> •Network Measurements Working Group (nm-wg)
Liaison	<ul style="list-style-type: none"> •Standards development organizations Collaboration on networked Resources Management (scrm-wg) 	
Management	<ul style="list-style-type: none"> •Application Contents Service WG (acs-wg) •Configuration Description, Deployment, and Lifecycle Management WG (cddl-m-wg) •OGSA Resource Usage Service WG (rus-wg) 	<ul style="list-style-type: none"> •Usage Record WG (ur-wg)
Security	<ul style="list-style-type: none"> •Firewall Issues RG (fi-rg) •OGSA Authorization WG (ogsa-authz-wg) 	<ul style="list-style-type: none"> •Trusted Computing Research Group (tc-rg)

Group の新設と消滅

新設

- ▶ Education and Training CG (et-cg)
 - @ eScience Func/ community affairs に
- ▶ Grid Reliability and Robustness RG (gridrel-rg)
 - @ eScience Func/ community affairs に
 - @ GGF16でworkshopを開催。しかし、GGF18で開催なし
- ▶ OGSA High Performance Computing Profile WG (ogsa-hpcp-wg)
 - @ Standards Func/ Compute
- ▶ Storage Networking CG (sn-cg)
 - @ Standards Func/ Data

消滅

- ▶ Transaction Management (TM-RG)
 - @ Data Area から

BOF

- Grids and System Virtualization: Charter-Discussion BOF
 - ▶ Virtual MachinesとVirtualized I/O からGridに新しい要素が生まれる
- DMTF Demo Session: Demo BOF
- Certification and quality assurance working group preparation: Charter-Discussion BOF
 - ▶ (GGF17 BOFの継続)
- ETSI TC GRID, ITU-T NGN GRID and OGF
 - ▶ 欧州の団体。様々な標準化団体の中で連携。(GGF17BOFの継続)
 - ▶ Interoperability testing events – GRID Plugtests 3rd event
27 Nov – 1 Dec 2006
- E&T Frameworks BOF
 - ▶ Education & Training Community Group (GGF17 BOF 継続)

ドキュメントの状況

GGF17以降11のドキュメントが完成

- GFD.81 (Architecture: OGSA-WG) -I
 - ▶ Open Grid Services Architecture Glossary of Terms Version 1.5
- GFD.80 (Architecture: OGSA-WG) -I
 - ▶ The Open Grid Services Architecture, Version 1.5
- GFD.79 (Individual submission) -I
 - ▶ Report for the GGF 16 BoF for Grid Developers and Deployers Leveraging Shibboleth
- GFD.78 (Individual submission) -I
 - ▶ Grid Security Infrastructure Message Specification
- GFD.77 (Data: DAIS-WG) -I
 - ▶ Interoperability Testing for DAIS Working Group Specifications
- GFD.76 (Data: DAIS-WG) -R
 - ▶ Web Services Data Access and Integration
 - The Relational Realisation (WS-DAIR) Specification, Version 1.0
- GFD.75 (Data: DAIS-WG) -R
 - ▶ Web Services Data Access and Integration
 - The XML Realization (WS-DAIX) Specification, Version 1.0
- GFD.74 (Data: DAIS-WG) -R
 - ▶ Web Services Data Access and Integration
 - The Core (WS-DAI) Specification, Version 1.0
- GFD.73 (Management: ACS-WG) -R
 - ▶ Application Contents Service Specification 1.0
- GFD.72 (Architecture: OGSA-WG) -R
 - ▶ OGSA(TM) WSRF Basic Profile 1.0
- GFD.71 (Application: SAGA-RG) -I
 - ▶ A Requirements Analysis for a Simple API for Grid Applications



2007 Events

OGF19

- ▶ January 29 - February 2
- ▶ The Friday Center, UNC, Chapel Hill, NC
- ▶ Hosted by RENCI
- ▶ Group sessions, Workshops

OGF20

- ▶ May 7 – 11
- ▶ Manchester Expo Center, Manchester, UK
- ▶ Hosted by UK eScience; co-located with EGEE Users meeting
- ▶ Group session, Workshops, Enterprise program, Tutorials

OGF21

- ▶ Date, venue and scope to be announced

第1回Grid Hotline

- 14:00-14:30 【OGFオーバービュー】産総研 伊藤 智/日本オラクル 鈴木 俊宏
GGF18/GridWorld/GlobusWorld の概要
(新組織OGF(Open Grid Forum)、GGF18の動き(BOF、新設WGなど))
- 14:30-15:00 【OGSA動向】富士通 岸本 光弘
フラグシップアーキテクチャOGSAの状況
(OGSA-WGおよび関連するWGの状況)
- 15:00-15:30 【技術動向】産総研 田中 良夫
グリッドにおけるセキュリティの動向
(Shibboleth との連携、PMA(Policy Management Authority)など)
- 15:45-16:15 【コミュニティ動向】NEC 中田 登志之/産総研 伊藤 智
OGFにおけるEnterprise 関連の状況
(Enterprise Function, EGR(Enterprise Grid Requirement)-RG, など)
- 16:15-16:45 【ドキュメント状況概説】日立 加藤 英晴
OASIS ドキュメント WSDM(Web Services Distributed Management) 1.1
Webサービスで分散したリソースを管理するための仕様 WSDM 1.1がOASIS 標準承認

OGF and Regional Activity

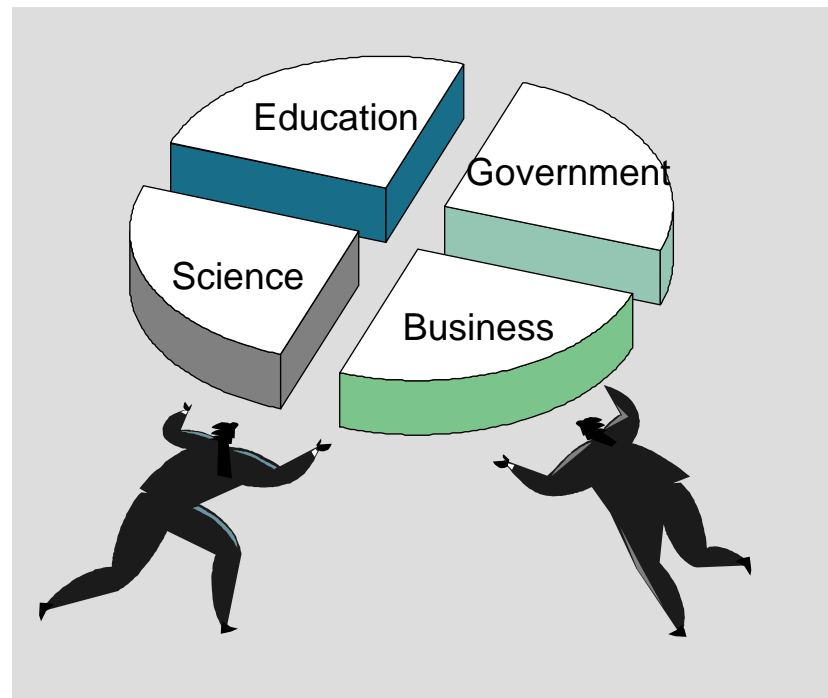
Toshihiro Suzuki – Regional VP, Asia-Pacific
Oracle Corporation Japan

As of Nov.2, 2006

Bring diverse communities together ...



GGF and EGA announce merger to form Open Grid Forum



Mission -accelerating adoption



Open forum for grid
innovation and outreach

Open standards for grid
software interoperability

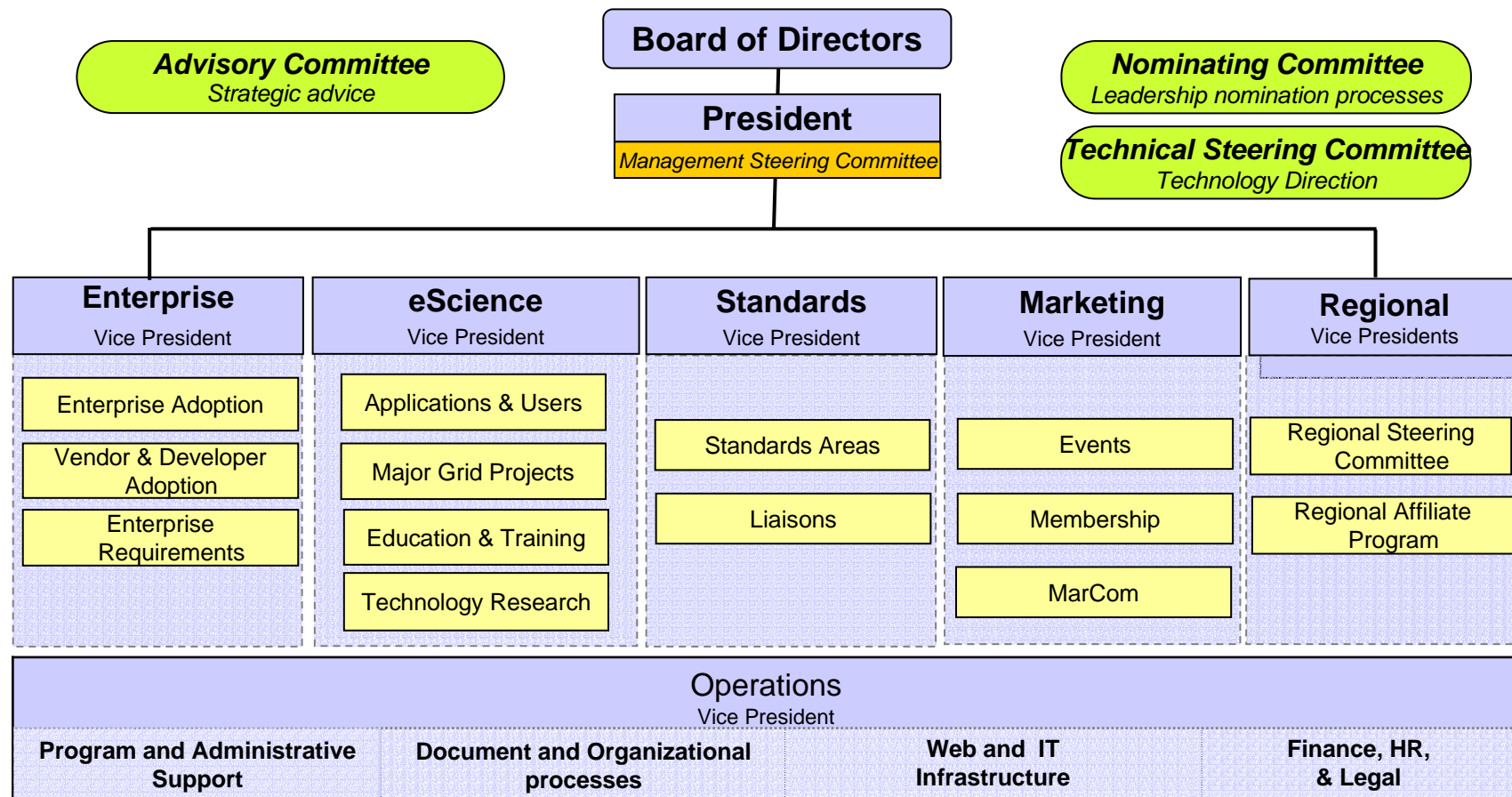
2007 Strategic Priorities



Open Forum - provide a more productive environment for grid innovation, outreach and communication

Open Standards - redouble efforts to deliver specifications that enable grid software interoperability

OGF Organization



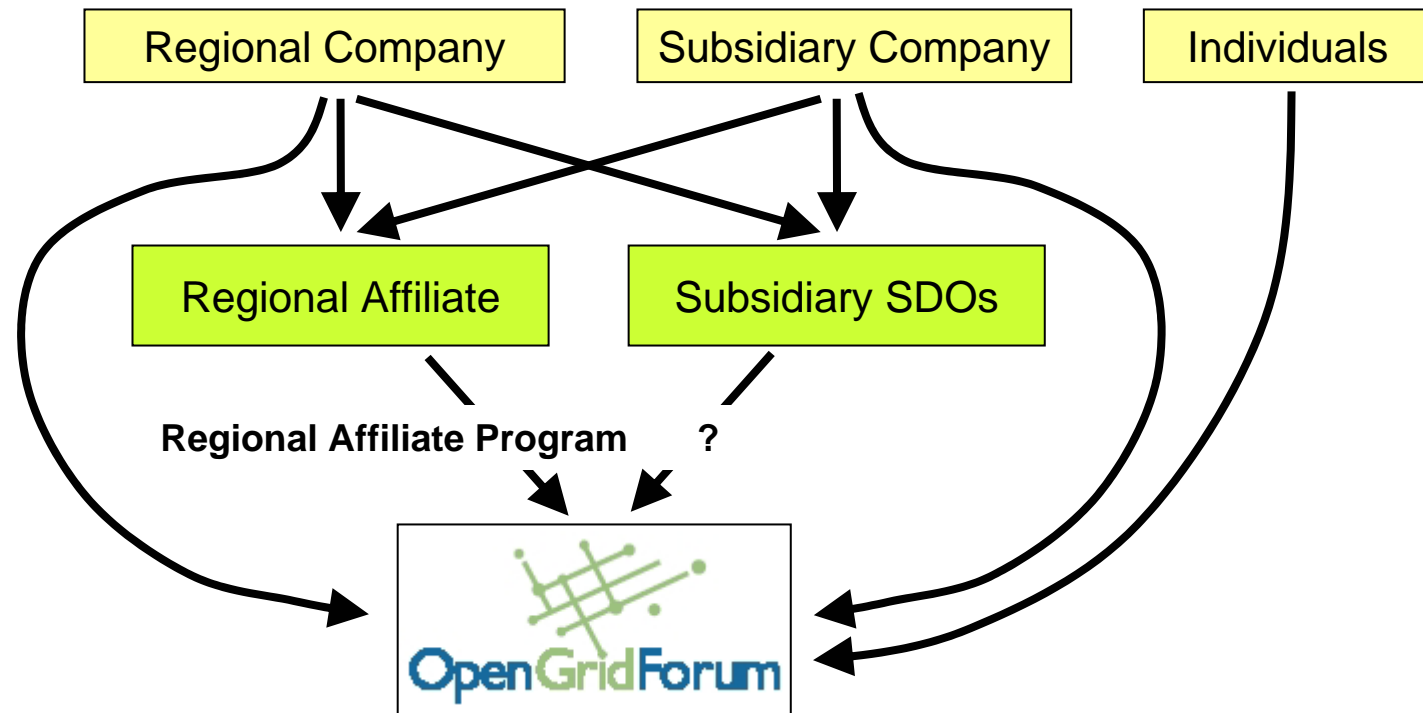
OGF from Regional Activity



- **OGF Regional Function Charter**

- Platinum, Gold, Silver, and Individual members

- **Regional Affiliate Program**



OGF Regional Function Charter



- Regional Function Steering Committee
- RF Responsibilities
 - Representation of OGF in the region
 - Regional execution and support of global OGF activities
 - Regional outbound communication, including PR/AR
 - Regional OGF member -outreach, -recruitment and –education
 - Alignment with locally centered OGF Affiliates
 - Marketing, extending the central marketing activity to the region
 - Promotion of OGF objectives and activities, focused on prospective members, prospective GRID adopters and public organizations
 - Planning and management of the regional marketing budget
 - Integration in the VOC- and VAF- processes if applicable.

OGF Regional Function Strategy



- OGF land preparation in the region.
- “OGF Brand” establishment in the region.
 - To achieve the objective, the OGF has the priority in the activities and in the countries in Asia-Pacific region.
 - The priority of countries will be considered based on comprehensive perspective (the number of member with the sponsor level, the number of regional affiliates, and so on).

OGF Regional Affiliate Program



- “5 Principles” for considering the Regional Affiliate Program
 - Principle#1: OGF needs to be an all-inclusive organization.
 - Principle#2: OGF needs more active members.
 - Principle#3: OGF needs additional funding.
 - Principle#4: OGF needs to own the global standardization efforts for grid.
 - Principle#5: OGF is the open forum at which regional affiliates network on a global scale.
- The Regional Affiliate Program will be announced at OGF19

OGF19

Chapel Hill, NC, USA

January 29 - February 2, 2007

Contact



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