



Enabling Grids for E-science

## How EGEE does Business

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[www.eu-egee.org](http://www.eu-egee.org)



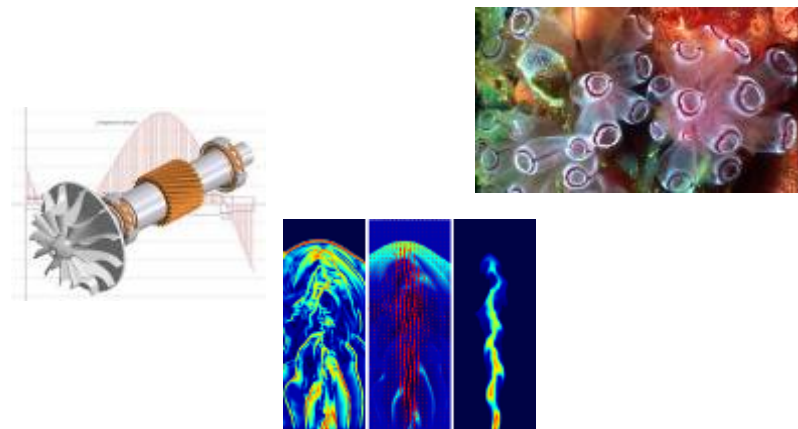
- **EGEE**

- Started in April 2004
- Now in 2<sup>nd</sup> phase with 91 partners in 32 countries



- **Objectives**

- Large-scale, production-quality grid infrastructure for e-Science
- Attracting new resources and users from industry as well as science
- Maintain and further improve “gLite” Grid middleware



- **Infrastructure operation**

- Currently includes ~200 sites across 40 countries
- Continuous monitoring of grid services & automated site configuration/management

[http://gridportal.hep.ph.ic.ac.uk/rtm/launch\\_frame.html](http://gridportal.hep.ph.ic.ac.uk/rtm/launch_frame.html)



- **Middleware**

- Production quality middleware distributed under business friendly open source licence



- **User Support - *Managed process from first contact through to production usage***

- Training
- Expertise in grid-enabling applications
- Online helpdesk
- Networking events (User Forum, Conferences etc.)



- **Interoperability**

- Expanding geographical reach and interoperability with collaborating e-infrastructures





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## Why you should do Business with EGEE

- **Credible**
  - Mission-critical for the LHC accelerator (starting 2007)
- **Stable**
  - Long-term plans means it will still be here in the future
- **Flexible**
  - Supporting applications from a wide range of domains
- **Secure**
  - Security model with authentication, authorization and audit trails
- **Dynamic**
  - New applications, resources, services and users can be easily added
- **Open**
  - Allows groups to work in multi-administered domains, deploy additional services and interoperate with other infrastructures

# What EGEE can offer your Business

- **A flagship European project operating on a global scale**
  - Access to a team of grid experts with proven deployment experience
- **Environment to gridify applications & get operations experience**
  - Demonstrate them to your customers & bosses
- **Production quality middleware**
  - Distributed under a business friendly open source license and supported by a large community
- **Evolutionary path to emerging grid standards**
  - Backward-compatible upgrades
- **Visibility: ~200 sites in 40 countries, ~ 100 Virtual Organisations**
  - An excellent shop-window for your products, services and expertise

## Businesses collaborate with EGEE in a variety of roles

- As a partner
  - Tune the project to business needs and pass on knowledge
- As a user
  - Prototype applications on EGEE infrastructure or deploy gLiet middleware
- As a provider
  - Transfer knowledge on how to provide Grid services
- As associate
  - Collaborate on subjects of joint interest
- As attendee at this and future events





## Signatories of the project contract with responsibilities in EGEE

- **CS-SI (France)**

- Responsible for Quality Assurance and operation of Regional Operation Centre
- Serving customers in the plastics industry (SMEs), large companies (CNES gLite prototype, etc.) and Fusion community



- **DATAMAT (Italy)**

- gLite middleware development & testing
- Grid expertise at service of Finmeccanica group (aerospace, defence, security)



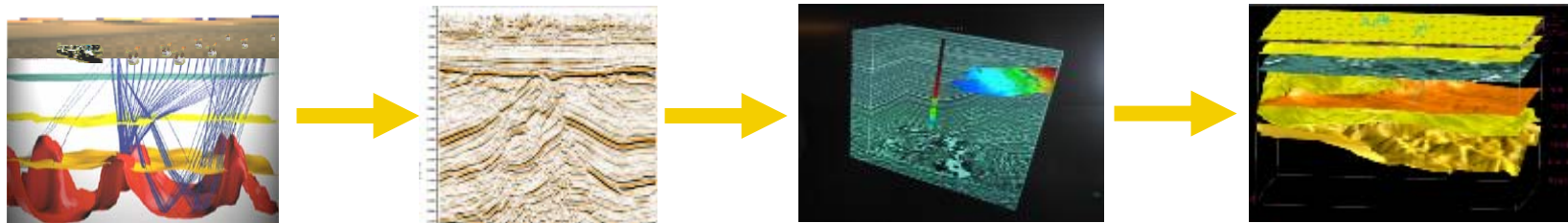
- **Metaware (Italy)**

- Dissemination and outreach to Businesses and Industry
- Leads the Industry Forum and organises Industry Events



- **EGEODE**

- Business application from Compagnie Generale de Geophysique running on EGEE infrastructure
  - Seismic processing platform
  - Based on industrial application Geocluster© used at CGG
  - Being ported to EGEE for Industry and Academia



- **OpenPlast project**

- French R&D programme to develop and deploy Grid platform for plastic industry (SMEs)
- Based on experience from EGEE (supported by CS)
- Next: Interoperability with other Grids





- **Opportunity to work on joint-interest subjects**
  - Technical developments
  - Market Surveys, Business modelling & Exploitation strategies
  - Transfer of know-how and services to industry
- **Benefits to EBAs**
  - Technical know-how
  - Early access to documentation and key project deliverables
  - Publish articles in business section of EGEE newsletter
  - Visibility at EGEE events
  - Participate early-on in process to define a sustainable infrastructure after EGEE-II

contact Hannelore Hämmerle, [hannelore.hammerle@cern.ch](mailto:hannelore.hammerle@cern.ch)

## First wave of EGEE Business Associates announced TODAY

- **NICE**

- Developing EGEE compatible GENIUS Grid portal and EnginFrame



- **Platform Computing**

- Making gLite middleware better exploit the LSF local resources management system



- **PricewaterhouseCoopers**

- Collaborating on security policies and approaches



- **Members**

- Business partners in the project (CS, DATAMAT, Metaware)
- Representatives from industrial applications on the EGEE infrastructure or making use of gLite middleware
- Links with related business-led projects



- **Activities**

- Orchestrates support within EGEE for business applications
- Interact with EGEE's Technical Coordination Group (TCG) to place industry requirements on equal footing with scientific applications

contact Gabriel Zaquine, [gabriel.zaquine@cern.ch](mailto:gabriel.zaquine@cern.ch)

- **Mission**

- Two-way communication between Industry and EGEE
  - For Industry: learn about EGEE and latest developments in the Grid field
  - For EGEE: learn about industrial requirements, ensuring EGEE's industrial relevance

- **Members**

- Led by Metaware to improve Grid take-up in Industry
- Representatives in most European countries
- >150 individual members, ~ 100 institutes, ~20 sectors

- **Activities**

- Dedicated section on EGEE web portal, geared towards the interest and needs of industry
- Organises meetings and industry events

Sign up as EGEE community member [www.eu-egee.org](http://www.eu-egee.org)  
or contact Douglas McKinley, [d.mckinley@metaware.it](mailto:d.mckinley@metaware.it)

## CERN openlab is contributing to the EGEE programme of work

- **Linked to EGEE**
  - Via the Grid interoperability & integration centre (GCC) and platform competence centre (PCC)
- **Example: HP sponsored event**
  - What is required of gLite on QA, certification & maturity for it to be handed over to the industry?
  - What could be the killer applications for the Grid?



### PARTNERS



ORACLE

### CONTRIBUTORS



STONESOFT

<b>Monday</b>	14:00	<b>Introduction to EGEE and Business</b>		
		<b>coffee</b>		
		<b>Business Models and Security Challenges</b>		
		<b>Networking Cocktail</b>		
<b>Tuesday</b>	11:00	<b>Grids &amp; SMEs</b>	<b>Data Mgmt &amp; Security</b>	<b>Grids &amp; Public Admin</b>
		<b>lunch</b>		
		<b>Grids in Automotive, Finance and Petroleum</b>		
		<b>coffee</b>		
		<b>Reporting, initial feedback &amp; follow-up</b>		





## Capitalising on e-Science to make e-Business



- **We want to address a number of questions in this business track:**
  - What are the key advantages you see coming from EGEE?
  - What do you see as the brakes/limitations that could slow down adoption by your Business?
  - What do you think are the best ways to commercially exploit EGEE products & services?

**EGEE is counting on your input to help formulate its strategies for the future**