



EUAsiaGrid - Project presentation

*Marco Paganoni - Univ. Milano-Bicocca and INFN
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CSA-223791



Abstract



- ▶ The EUAsiaGrid proposal contributes to the aims of the Research Infrastructures work programme by “promoting international interoperation between similar infrastructures with the aim of reinforcing the global relevance and impact of European e-Infrastructures”.
- ▶ The project’s main goal will be **to pave the way towards an Asian e-Science Grid Infrastructure**, in synergy with the other European Grid initiatives in Asia, namely EGEE-III via its Asia Federation, and both the EUChinaGRID and EU-IndiaGRID projects and their eventual follow on efforts.
- ▶ Taking advantage of the existing global Grid technologies, with the specific emphasis on the European experience with the **gLite middleware and applications running on top of it**, the project plans to encourage federating approaches across scientific disciplines and communities.
- ▶ EUAsiaGrid will act as a support action, aiming to define and implement a policy to promote the gLite middleware developed within the EU EGEE project across Asian countries.
- ▶ Its main actions will be to **spread dissemination, provide training, support scientific applications and monitor the results**.

Partners



- 1 **Istituto Nazionale di Fisica Nucleare (Italy) (coordinator)**
- 2 **CESNET (Czech Republic)**
- 3 **University of Manchester (United Kingdom)**
- 4 **HealthGrid (France)**
- 5 **Ateneo de Manila University (Philippines)**
- 6 **Australia National University (Australia)**
- 7 **Academia Sinica (Taiwan)**
- 8 **Advanced Science and Technology Institute (Philippines)**
- 9 **Hydro and Agro Informatics Institute (Thailand)**
- 10 **Infocomm Development Authority (Singapore)**
- 11 **Institute of Information Technology (Vietnam)**
- 12 **Institute Teknologi Bandung (Indonesia)**
- 13 **National Electronics and Computing Technology Center (Thailand)**
- 14 **University Putra Malaysia (Malaysia)**
- 15 **MIMOS Berhad (Malaysia)**



Timescale and budget

- ▶ CSA funding scheme
- ▶ Start date: April 1st, 2008
- ▶ Duration: 24 months
- ▶ Budget: 1.437 kEuro
- ▶ EU contribution: 920 kEuro
- ▶ Collaboration with EGEE-III, EU-IndiaGrid and EU-ChinaGrid
- ▶ EUAsiaGrid is expected to run on Asia-Pacific infrastructure, but is not building or operating it

Objectives



Promote awareness in the Asian countries of the EGEE infrastructures, middleware and services by means of specific dissemination activities, such as workshops, training events, conferences, and hands-on demonstrations;

Capture local e-Science user **requirements** in terms of resources needed, Grid services, application software, and training needs, building on results of the EGI_DS project;

Build a EuroAsian Grid community by identifying and aggregating new and existing user communities into a virtual Grid-based research space;

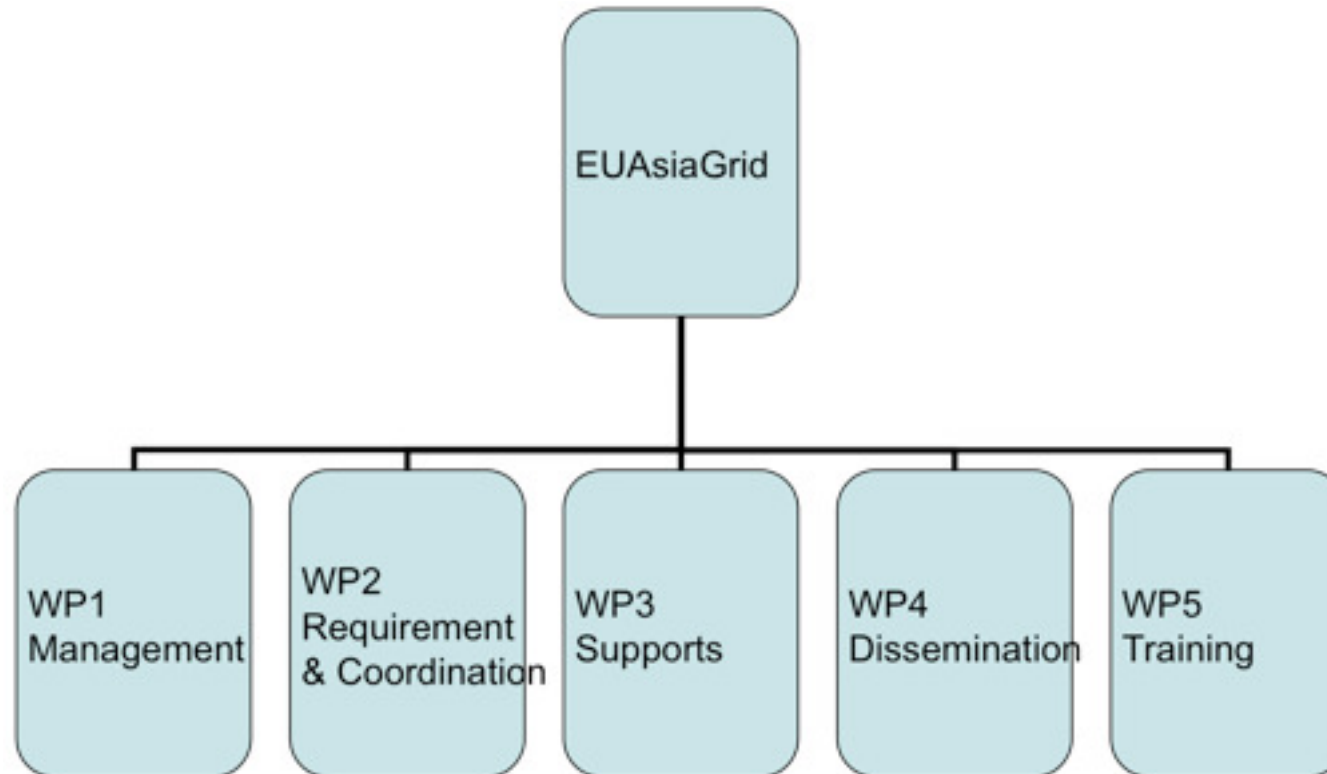
Assist regional integration with the wider Grid infrastructure in collaboration with the EGEE III Asian Federation and the EUChinaGrid and EU-IndiaGrid projects, thus significantly contributing to the creation of a human network in the area of Grids, e-Science and e-Infrastructures between Europe and Asia;

Promote common e-Science applications in Asia and Europe, by supporting the early user communities already engaged in Grid applications (Life Science, Particle Physics), and engaging new ones by coordinating common actions of dissemination and training;

Provide specific **training** materials and events targeted to the needs of users in the Asian countries as established in part in Objective 2, and in part building on the experience gained from the EUChinaGrid and EU-IndiaGrid projects.

Foster **international cooperation** by working in synergy with members of the EGEE II Asian Federation, and the EU-IndiaGrid and EUChinaGRID projects.

Work breakdown



WP1 - Administrative and technical management (INFN)



Description of work

WP1.1 Administrative management (M1-M24)

WP1.2 Technical management (M1-M24)

Deliverables

D1.1 Project management information package and contractual relationships (M2)

D1.2 First year progress report (M13)

D1.3 Final Report (M24)

Milestones

M1.1 Kick-off meeting (M1)

M1.2 Final project review (M24)

WP2 - Requirement capture and coordination policy definition (UNIMAN)



Objectives

- * To collect from the scientific communities of the Asian countries their computing and storage requirements, to understand which scientific domains and applications could profit more from the use of the EGEE Grid middleware;
- * To develop a model for the promotion of sustainable National Grid initiatives;
- * To define a roadmap towards a common e-Science Asian Grid infrastructure, in strict coordination with the other European initiatives in Asia.

Description of work

WP 2.1 Survey of requirements: Requirements for these new scientific collaborations will be captured.

WP 2.2 Forum development: An online forum will be created and a community process initiated to assist Asian partners in the formation of sustainable NGIs in their countries and to feed their experience back into the EUAsiaGrid process

WP 2.3 Technical roadmap planning workshops

WP 2.4 Development of a technical roadmap

WP 2.5 Review of wider context: in order to keep pace with the rapid development of the field of e-Science worldwide

Deliverables

D2.1 Scientific communities requirements capture and analysis (M4)

D2.2 Policy report / technical roadmap (version for discussion M18, final version M24)

WP2 (cont'd)

- ▶ Initial survey at kick-off meeting
 - Provided baseline information about
 - state of adoption in partner countries
 - resources available to partners
 - existing initiatives (e.g., training)
 - existing understanding of issues
- ▶ Now being further elaborated through
 - Fortnightly meetings
 - Team formation – mechanisms for remote collaboration
 - Collection of existing evidence (surveys, strategy documents, etc.)
 - Shared documents to capture requirements
 - Survey to include wider range of stakeholders (in preparation, based on kick-off survey)

WP3 - Support of scientific applications (CESNET)



Objectives

- to attract user communities through explicit support of applications in specific areas:
 - start with a set of applications already running on the gLite-based Grid
 - search for new user communities that can benefit from the access to a Grid infrastructure
- to establish appropriate Virtual Organisations

Applications

High Energy Physics Applications (ATLAS, CMS)

Computational Chemistry

Mitigation of natural disasters

Bioinformatics and Biomedics

Social Science Applications

Promoting new scientific communities to the use of the Grid

WP3 (cont'd)



Description of work

WP3 will build on the experience with Grid enabled applications of the European partners and AS accumulated through their participation in the EGEE and other Grid oriented projects. It will also heavily utilise the local and regional expertise of contributing Asian partners, in particular scientific areas of their interest or in specific support at the middleware level.

The work will start immediately within the scientific areas already identified: HEP applications, Computational Chemistry, Mitigation of natural disasters, Bioinformatics and Biomedics as well as Social Science Applications.

In parallel, the partners will start identification of new user communities, both within and outside the consortium.

Deliverables

D3.1 Specifications and requirements of the applications (M8)

D3.2 Status of EU-Asia collaboration on EGEE and regional applications (M22)

D3.3 Final report on applications (M24)

Milestones

M3.1 EGEE and regional applications running on the e-Infrastructure (M15)

WP3 (cont'd)



- General (shared) tasks:
 - Identify the Asian e-Infrastructure available
 - * What computing power is available? Status of certification, . . .
 - * Are there any restrictions in its use?
 - * Can jobs flow between partners/countries?
 - * Immediate plans for procurement/installation (what will become available during the first year of the project?)
 - * Helpdesks/user support available?
 - * Who can run VO services? Who can take care of VO specific support?
 - Coordinate with WP5 (Training)
 - * User Group Meetings/Fora together with training (tutorial) meetings
 - Web 2.0 like user support environment (Wiki, VO specific e-mail lists, . . .)



WP4 - Dissemination (AS)

Description of work

A4.1 Production of dissemination materials (M1-M8)

A4.2 Websites (M2-M24)

A4.3 Events organisation (M4-M24)

Deliverables

D4.1.1 Production of project presentation (M2)

D4.2.1 Internal and external web site, document repository and mailing lists (M2)

D4.1.2 Dissemination plan (M3)

D4.1.3 Dissemination Report and revised plan (M12)

D4.1.4 Final report on dissemination and outreach (M24)

Milestones

M4.1 Initial public web site (M2)

M4.2 Initial setup of dissemination material (M5)

M4.3 Revision of the public web site (M12)

M4.4 EUAsiaGrid dissemination conference (M24)

EUAsiaGrid collaborative tools



Home | Calendar | Contact | Intranet | search...

EUAsiaGrid

Main Menu

> Home

Home

News

06.05.2008 - 06.08.2008
GridTalk upgrades European

<http://www.euasiagrid.eu>

EUAsiaGrid Contacts

Events Calendar

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

The first EUAsiaGrid Training Event from 28 ~31 July 2008 , Malaysia

Read more...

Introduction

The EUAsiaGrid aims to the EU Research Infrastructures FP7 Programme by "promoting international interoperability between similar infrastructures with the aim of reinforcing the global relevance and impact of European e-Infrastructures".

The project's main goal will be to pave the way towards an Asian e-Science Grid Infrastructure, in synergy with the other European Grid initiatives in Asia, namely EGEE-III via its Asia Federation, and both the EUChinaGRID and EU-IndiaGRID projects and their eventual follow on efforts.



WP5 - Training (INFN)

Description of work

WP5.1 Production of training material (M1-M12)

WP5.2 Training event scheduling and organisation (M4-M24)

Training for trainers, administrators, users and application specific
EUAsiaGrid plans to hold two major training events each year

Deliverables

D5.1.1 Training plan (M3)

D5.1.2 Training report and revised plan (M12)

D5.1.3 Final Training report (M24)

Milestones

M5.1 First revision of training material (M12)

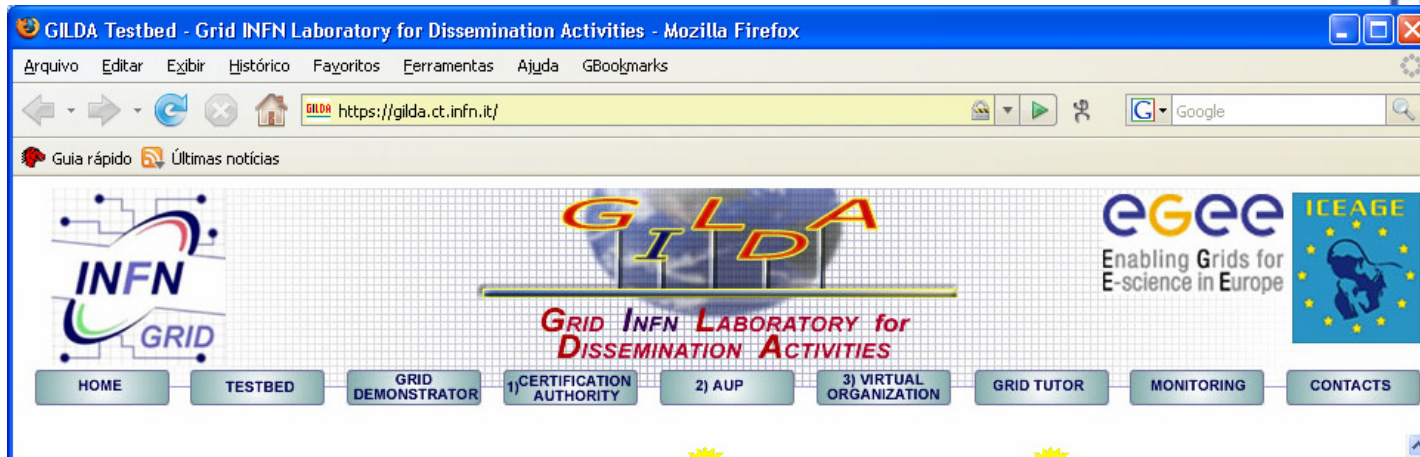
M5.2 Grid Spring School (M12)

- **27-31 July, MIMOS: training for users**
- **17-19 Oct, ASGC: training for applications**

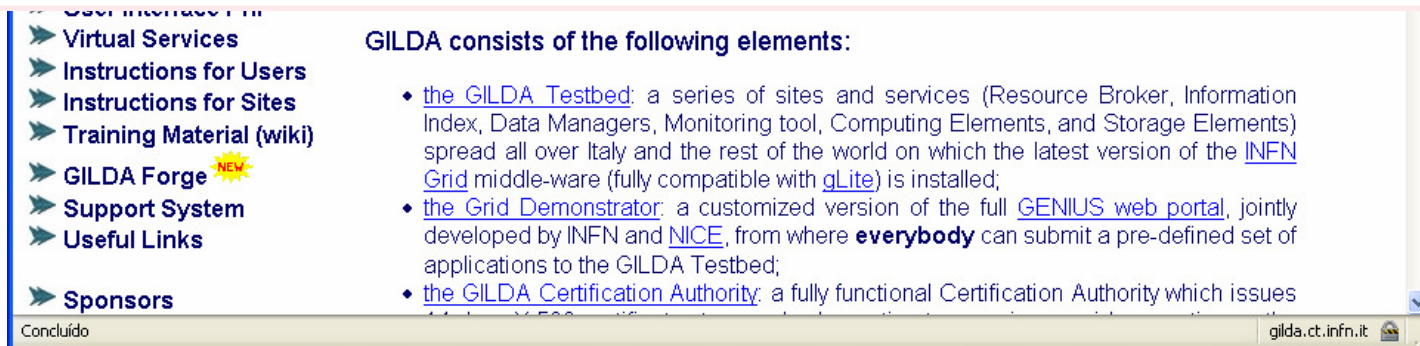
GILDA



- ▶ **Grid INFN Laboratory for Dissemination Activities**
- ▶ Demonstrate/disseminate Grid Computing around the world
- ▶ It is a "de facto" standard t-Infrastructure adopted both by EGEE and several EU-FP6 projects
- ▶ It is a complete suite of grid elements and applications fully dedicated to dissemination purposes and pre-orting of new applications to EGEE Infrastructure
- ▶ It runs the latest production (stable) version of LCG grid middleware but it is also adopting gLite in order to make the transition to the new middleware smoother and easier
- ▶ Easy entry point for new users/communities w/o disruption of production systems of Grid projects



<https://gilda.ct.infn.it>



Grid Public Demonstator



Welcome to the GENIUS Grid Portal - Mozilla Firefox

Arquivo Editar Exibir Histórico Favoritos Ferramentas Ajuda GBookmarks

https://glite-demo.ct.infn.it/ Google

Guia rápido Últimas notícias

INFN Istituto Nazionale di Fisica Nucleare eGEE Enabling Grids for E-science Grid Enabled web eNvironment for **genius** site Independent User job Submission enginframe NICE

GENIUS Services

File

Login to the GRID

Navigate Catalog

Info

Explore R-GMA

Monitoring

View Testbed

BLAST Services

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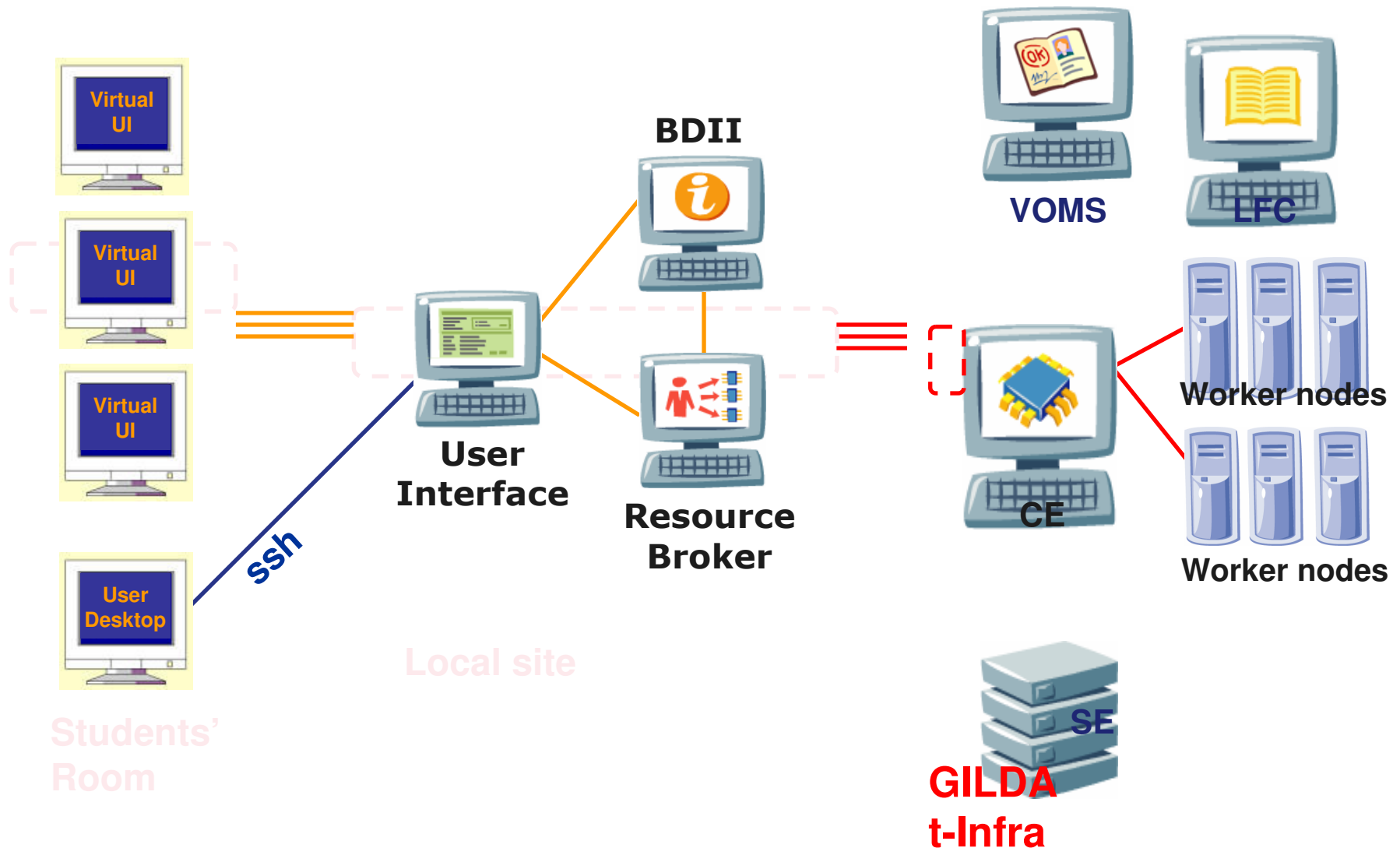
VO Services

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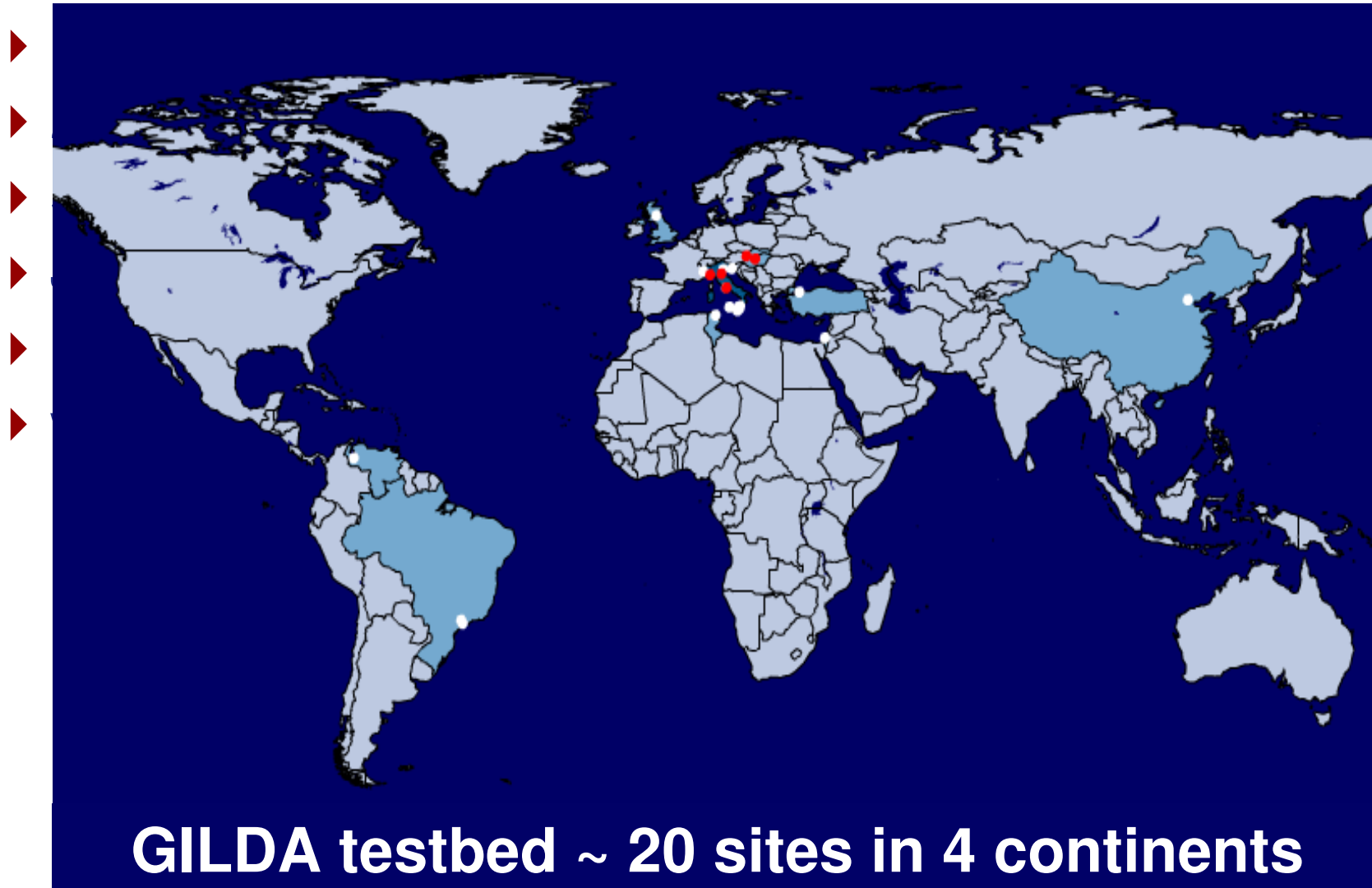
Concluído glite-demo.ct.infn.it

<https://glite-demo.ct.infn.it>

Standard tutorial layout



Use of GILDA



User support



- ▶ Training material
 - Wiki page
 - Video tutorials
 - Step by step instruction
- ▶ Support system
- ▶ GILDA Forge

The top screenshot shows the GILDA Wiki page titled 'WebHome < GILDA < Grid CT WIKI - Mozilla Firefox'. The page features a GILDA logo and a welcome message: 'Welcome to the GILDA web'. The browser address bar shows 'https://grid.ct.infn.it/twiki/bin/view/GILDA/WebHome'.

The bottom screenshot shows the 'GILDA SUPPORT - Ticket Management - Mozilla Firefox' interface. It includes a 'Main Menu' with links like Home, Ticket Management, and Contact Us. The 'User Menu' includes View Account, Edit Account, Notifications, Logout, and Inbox. The 'Who's Online' section indicates 1 user is online. The main content area is titled 'Create Ticket' and contains fields for Username (lciuffo), Assign To (Authorization / Authentication), Priority, Subject, and Description. There is also an 'Add File' section with a file upload button and a list of available filetypes: doc, pdf, bmp, gif, jpeg, jpg, jpe, png, tiff, tif, txt, rtf. The bottom status bar shows 'Concluido'.



Conclusions

- ▶ The project has just started, but it has already a rich background (EGEE expertise, ASGC as ROC, scientific communities)
- ▶ Collaboration with other regional project (EU-India, EU-China) is a great added value:
 - Networking
 - Operations
 - Scientific applications
 - User support

Next events



Event s	Location	Time
ISGC 2008 and EUAsiaGrid	ASGC, Taiwan	Apr 7-11, 2008
HealthGrid 2008	Chicago, US	June 2-4, 2008
OGF 23	Barcelona, Spain	June 2-6, 2008
4 th Int. Conf. on e-Social Science	Manchester, UK	June 18-20, 2008
26 th APAN Meeting	Queenstown, New Zealand	Aug 4-8, 2008
OGF 24 and GridAsia 2008	Biopolis, Singapore	Sep 15-19, 2008
EGEE08 Conference	Istanbul, Turkey	Sep 22-26, 2008
HEPIX	ASGC, Taiwan	Oct 20-24, 2008
27 th APAN Meeting	Kaohsiung, Taiwan	Feb 19-23, 2009
OGF 25	TBD	Q1 2009
4 th EGEE User Forum	TBD	Q2 2009
ISGC 2009 and EUAsiaGrid	Taiwan	Q2 2009
GridAsia 2009	Singapore	Q2 2009
HealthGrid 2009	TBD	Q2 2009
5 th Int. Conf. on e-Social Science	TBD	Q3 2009
28 th APAN Meeting	Kuala Lumpur, Malaysia	July 20-24, 2009
OGF 26	TBD	Q3 2009
EGEE09 Conference	TBD	Q4 2009
29 th APAN Meeting	Sidney, Australia	Jan 25-29, 2010

Total effort



Partic. no.	Partic. short name	WP1	WP2	WP3	WP4	WP5	Total person months
1	INFN	12	12	8	8	12	52
2	CESNET		4	13		4	21
3	UNIMAN		6	6	1		13
4	HealthGrid		4	10	4	5	23
5	AdMU			36		12	48
6.	ANU		3	6			9
7	AS	6	6	24	30	12	78
8	ASTI		2	6	2	4	14
9	HAI			24			24
10	IDA		2	2	1		5
11	IOIT-HCM		3	9	6	9	27
12	ITB			2	2	2	6
13	NECTEC		3	9			12
14	UPM			24	8	2	34
15	MIMOS			12		6	18
Total		18	45	191	62	68	384