



Enabling Grids for E-science

The GILDA t-Infrastructure

Roberto Barbera

University of Catania and INFN

EGEE Tutorial

Seoul, 29-30.08.2005

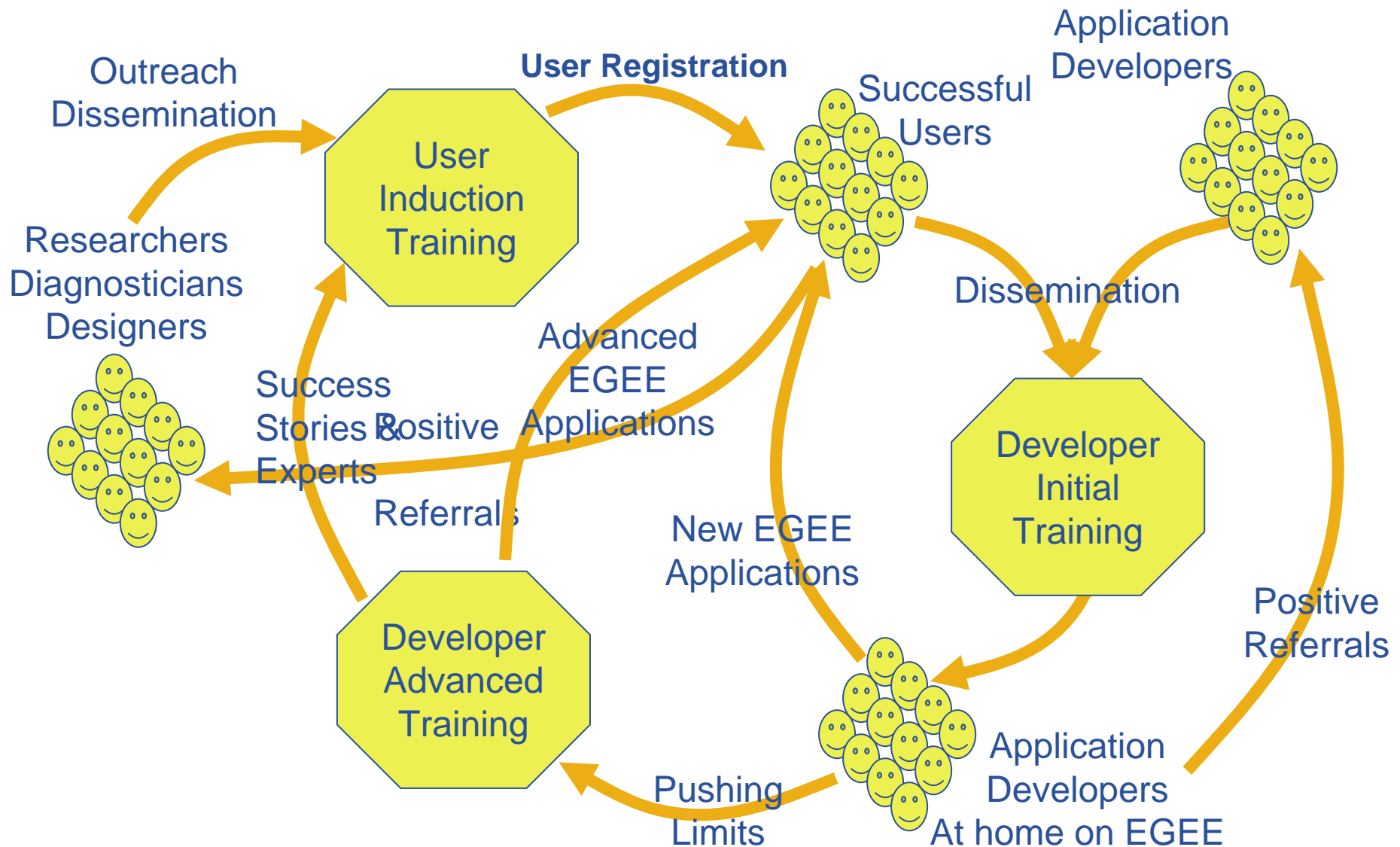
www.eu-egee.org



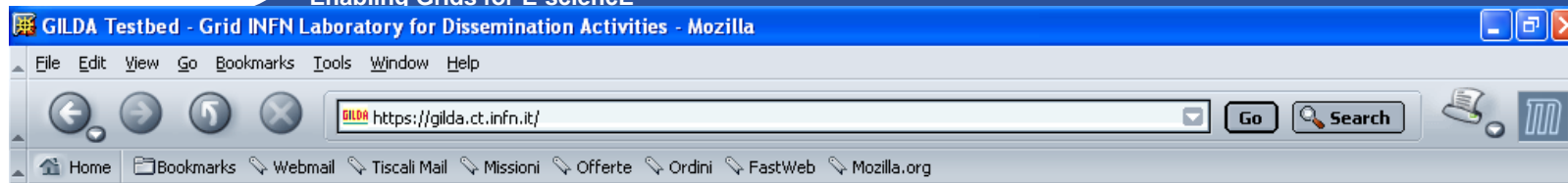
Information Society



- **Introduction**
- **The GILDA t-Infrastructure**
 - services
 - tools
 - applications
 - tutorial lay-out
- **Summary and conclusions**



- **Why t-infrastructure?**
 - e-Infrastructure for production
 - t-Infrastrcuture for training
- **Need guaranteed response for tutorials; limit the vulnerability of production systems**
 - use training grid
 - have training CA
 - able to change middleware to prepare participants for future releases on production system
- **Also:**
 - need safe resources for installation training
 - easy entry point for new communities




GILDA (Grid Infn Laboratory for Dissemination Activities)

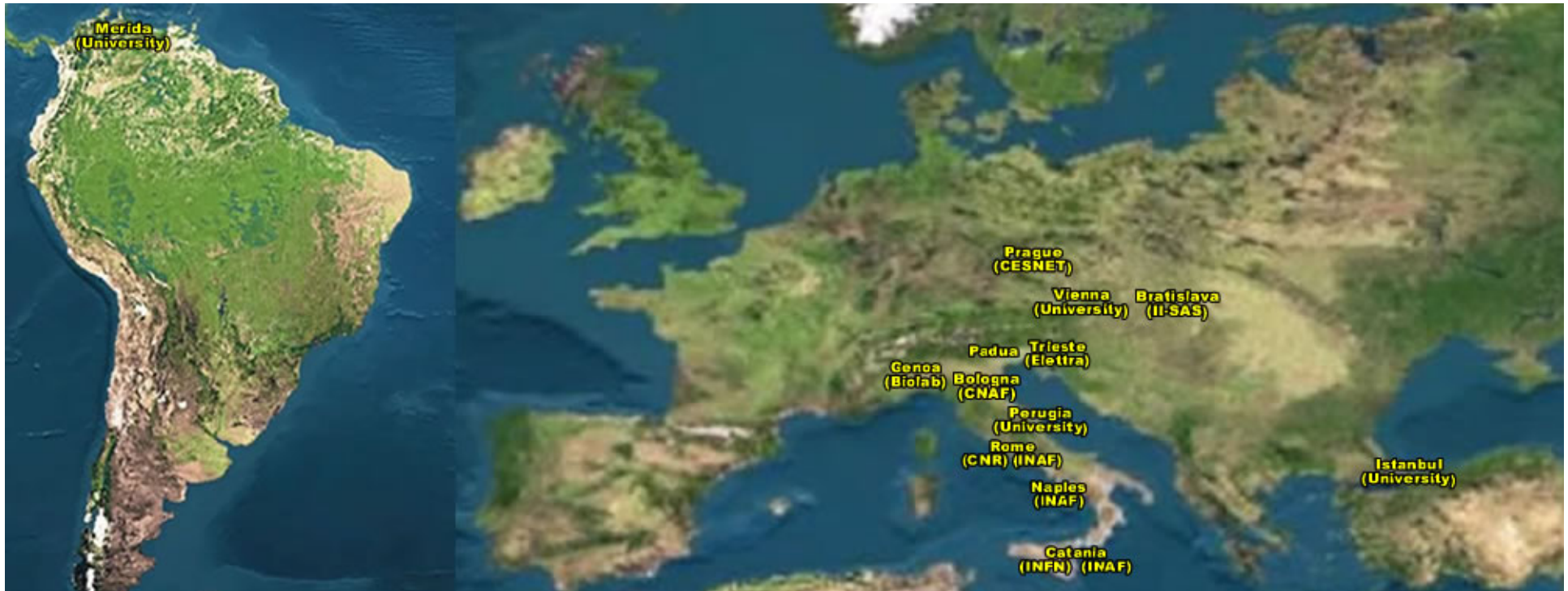
- Grid tutorials
- GILDA Poster
- Video tutorials
- Live User Interface
- User Interface PnP 
- Instructions for users
- Instructions for sites
- Useful links

- Sponsors
- Usage Statistics
- Old Usage Statistics

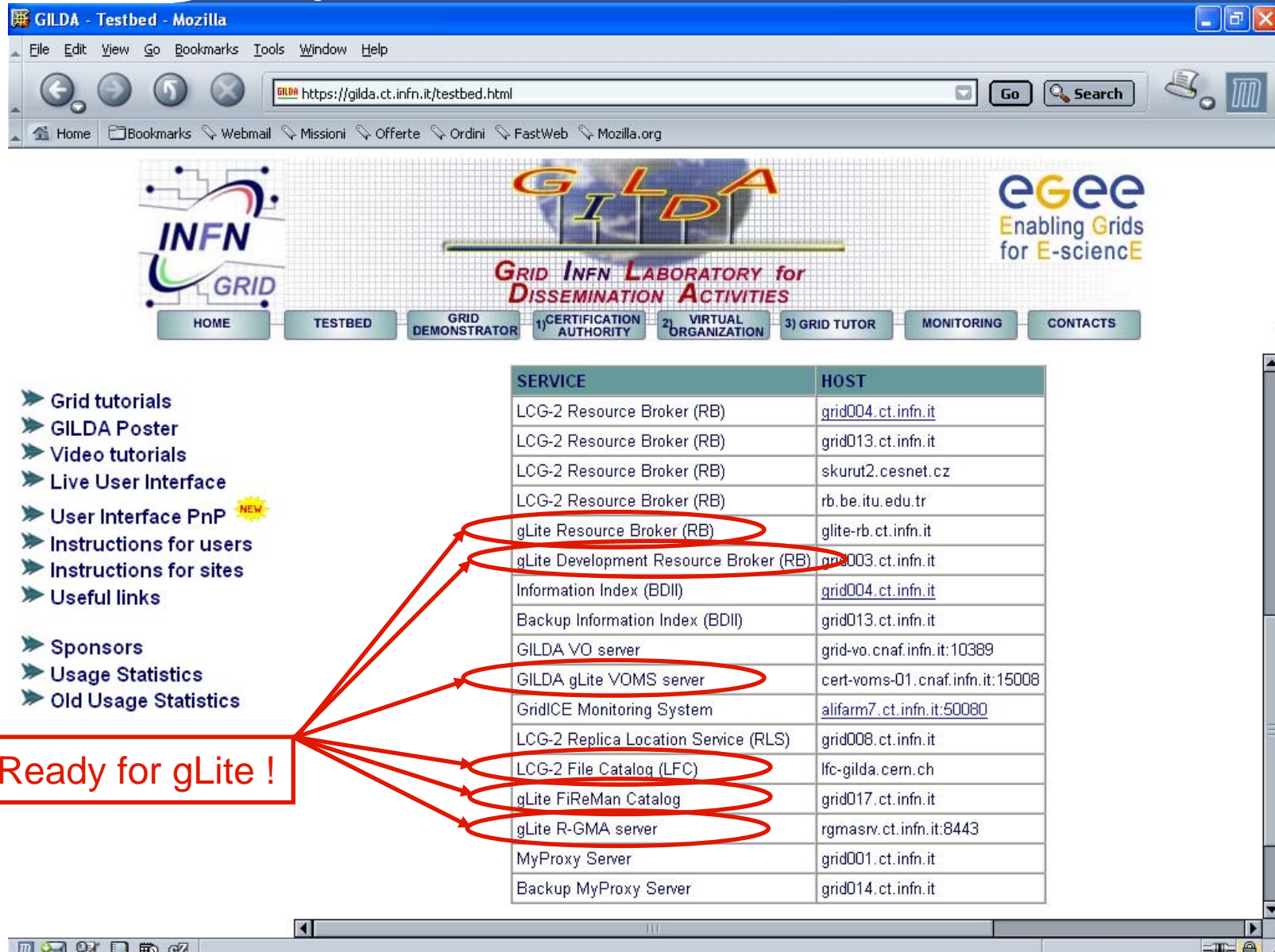
is a virtual laboratory to demonstrate/disseminate the strong capabilities of grid computing.

GILDA consists of the following elements:

- **the GILDA Testbed:** a series of sites and services (Resource Broker, Information Index, Data Managers, Monitoring tool, Computing Elements, and Storage Elements) spread all over Italy and the rest of the world on which the latest version of both the [INFN Grid](#) middle-ware (fully compatible with [LCG](#) middle-ware) and the [gLite](#)  middle-ware are installed;
- **the Grid Demonstrator:** a customized version of the full [GENIUS web portal](#), jointly developed by INFN and [NICE](#), from where **everybody** can submit a pre-defined set of applications to the GILDA Testbed;
- **the GILDA Certification Authority:** a fully functional Certification Authority which issues 14-days X.509 certificates to everybody wanting to experience grid computing on the GILDA Testbed;
- **the GILDA Virtual Organization:** a Virtual Organization gathering all people wanting to experience grid computing on the GILDA Testbed; GILDA also runs the [Virtual Organization Membership Service \(VOMS\)](#) developed by INFN;
- **the Grid Tutor:** based on a full version of the [GENIUS web portal](#), to be used only during [grid tutorials](#);
- **the monitoring system:** a versatile monitoring system completely based on [GridICE](#), the grid monitoring tool developed by INFN;
- **the GILDA mailing list:** gilda@infn.it, also archived on the web [here](#).

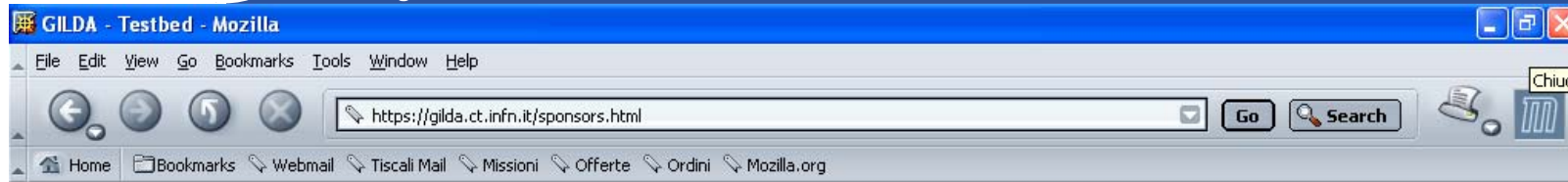


15 sites in 3 continents !



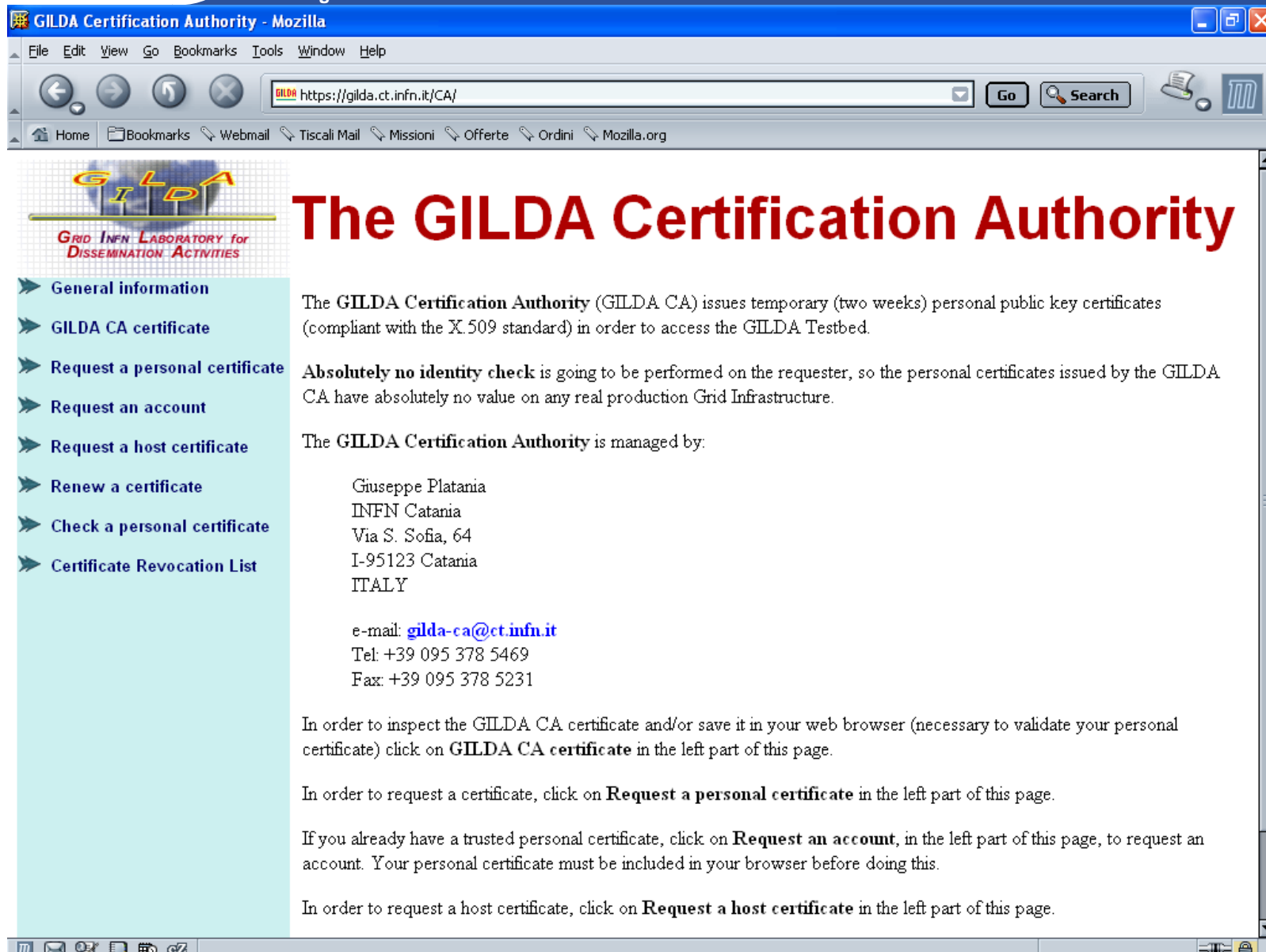
The screenshot shows a Mozilla browser window displaying the GILDA Testbed website. The page includes logos for INFN GRID and EGEE, and a navigation menu with buttons for HOME, TESTBED, GRID DEMONSTRATOR, CERTIFICATION AUTHORITY, VIRTUAL ORGANIZATION, GRID TUTOR, MONITORING, and CONTACTS. A table of services is displayed, with a red box labeled "Ready for gLite!" and arrows pointing to several rows in the table.

SERVICE	HOST
LCG-2 Resource Broker (RB)	grid004.ct.infn.it
LCG-2 Resource Broker (RB)	grid013.ct.infn.it
LCG-2 Resource Broker (RB)	skurut2.cesnet.cz
LCG-2 Resource Broker (RB)	rb.be.itu.edu.tr
gLite Resource Broker (RB)	glite-rb.ct.infn.it
gLite Development Resource Broker (RB)	grid003.ct.infn.it
Information Index (BDII)	grid004.ct.infn.it
Backup Information Index (BDII)	grid013.ct.infn.it
GILDA VO server	grid-vo.cnaf.infn.it:10389
GILDA gLite VOMS server	cert-voms-01.cnaf.infn.it:15008
GridICE Monitoring System	alifarm7.ct.infn.it:50080
LCG-2 Replica Location Service (RLS)	grid008.ct.infn.it
LCG-2 File Catalog (LFC)	lfc-gilda.cern.ch
gLite FiReMan Catalog	grid017.ct.infn.it
gLite R-GMA server	rgmasrv.ct.infn.it:8443
MyProxy Server	grid001.ct.infn.it
Backup MyProxy Server	grid014.ct.infn.it



GILDA is sponsored by:






GILDA Certification Authority - Mozilla

File Edit View Go Bookmarks Tools Window Help

← → ↶ ✕ Go Search

Home Bookmarks Webmail Tiscali Mail Missioni Offerte Ordini Mozilla.org



- [General information](#)
- [GILDA CA certificate](#)
- [Request a personal certificate](#)
- [Request an account](#)
- [Request a host certificate](#)
- [Renew a certificate](#)
- [Check a personal certificate](#)
- [Certificate Revocation List](#)

The GILDA Certification Authority

The **GILDA Certification Authority** (GILDA CA) issues temporary (two weeks) personal public key certificates (compliant with the X.509 standard) in order to access the GILDA Testbed.

Absolutely no identity check is going to be performed on the requester, so the personal certificates issued by the GILDA CA have absolutely no value on any real production Grid Infrastructure.

The **GILDA Certification Authority** is managed by:

Giuseppe Platania
INFN Catania
Via S. Sofia, 64
I-95123 Catania
ITALY

e-mail: gilda-ca@ct.infn.it
Tel: +39 095 378 5469
Fax: +39 095 378 5231

In order to inspect the GILDA CA certificate and/or save it in your web browser (necessary to validate your personal certificate) click on **GILDA CA certificate** in the left part of this page.

In order to request a certificate, click on **Request a personal certificate** in the left part of this page.

If you already have a trusted personal certificate, click on **Request an account**, in the left part of this page, to request an account. Your personal certificate must be included in your browser before doing this.

In order to request a host certificate, click on **Request a host certificate** in the left part of this page.

Request a GILDA CA personal certificate - Mozilla

File Edit View Go Bookmarks Tools Window Help

https://gilda.ct.infn.it/CA/mgt/restricted/ucert.php

Home Bookmarks mozilla.org mozillaZine mozdev.org

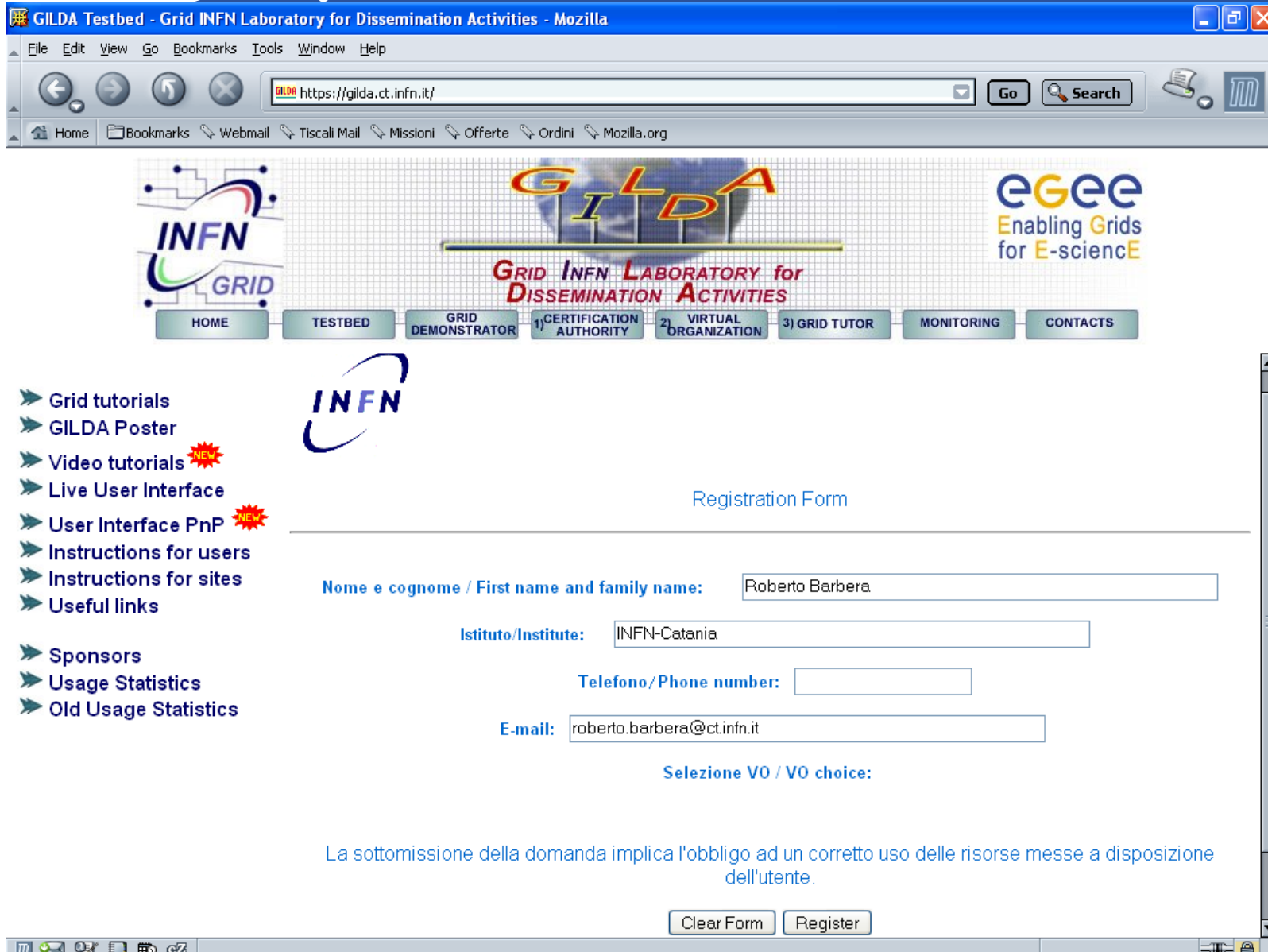
- **Request an account**
- **Request a host certificate**
- **Check a personal certificate**
- **Certificate Revocation List**

In order to correctly generate a request it is mandatory to fill **all** fields in the form below. Please, double check the correctness of the e-mail address that you are going to provide since **no verification** will be performed by the server.

The password you are prompted about in the form below is the password of your personal account on the **GENIUS Portal** from where you will access the GILDA Testbed and it is **NOT** the passphrase of your personal certificate.

When the certificate will be signed by the GILDA CA manager you will be notified by e-mail with the instructions to download your GILDA CA personal certificate and access the GILDA Testbed.

Institute/University/Company:	<input type="text"/>
First name and last name:	<input type="text"/>
Account username (max 8 characters; only not-accented letters and digits are allowed, both lowercase and uppercase):	<input type="text"/>
Account password (only not-accented letters and digits are allowed, both lowercase and uppercase):	<input type="password"/>
Confirm account password (only not-accented letters and digits are allowed, both lowercase and uppercase):	<input type="password"/>
E-mail:	<input type="text"/>
KeySize:	2048 (High Grade) <input type="button" value="v"/>



GILDA Testbed - Grid INFN Laboratory for Dissemination Activities - Mozilla

File Edit View Go Bookmarks Tools Window Help

https://gilda.ct.infn.it/ Go Search

Home Bookmarks Webmail Tiscali Mail Missioni Offerte Ordini Mozilla.org

INFN GRID

GILDA

GRID INFN LABORATORY for DISSEMINATION ACTIVITIES

eGEE Enabling Grids for E-science

HOME TESTBED GRID DEMONSTRATOR 1) CERTIFICATION AUTHORITY 2) VIRTUAL ORGANIZATION 3) GRID TUTOR MONITORING CONTACTS

INFN

Registration Form

Nome e cognome / First name and family name:

Istituto/Institute:

Telefono/Phone number:

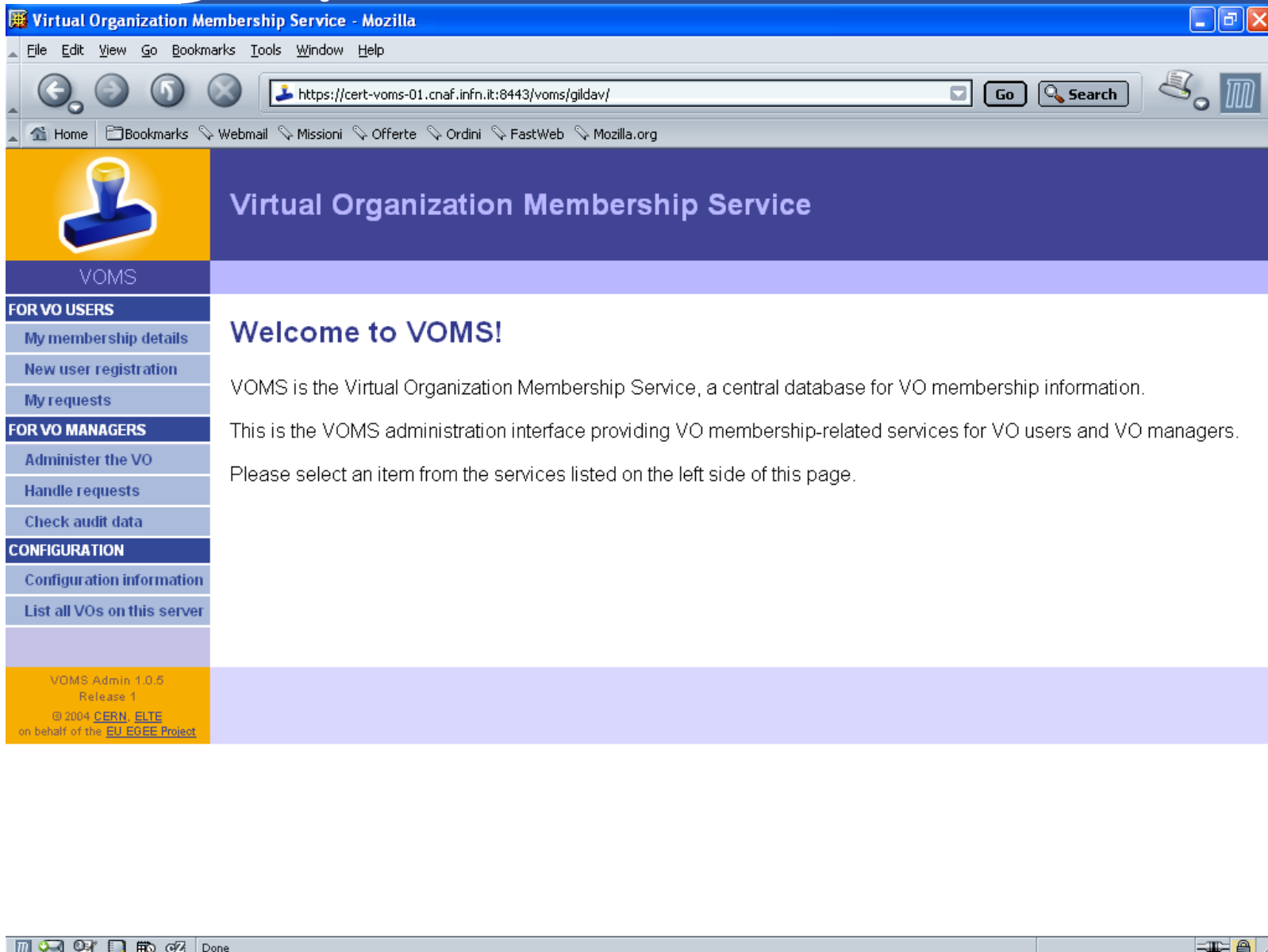
E-mail:

Selezione VO / VO choice:

La sottomissione della domanda implica l'obbligo ad un corretto uso delle risorse messe a disposizione dell'utente.

Clear Form Register

- Grid tutorials
- GILDA Poster
- Video tutorials **NEW**
- Live User Interface
- User Interface PnP **NEW**
- Instructions for users
- Instructions for sites
- Useful links
- Sponsors
- Usage Statistics
- Old Usage Statistics



Virtual Organization Membership Service

VOMS

FOR VO USERS

- My membership details
- New user registration
- My requests

FOR VO MANAGERS

- Administer the VO
- Handle requests
- Check audit data

CONFIGURATION

- Configuration information
- List all VOs on this server

VOMS Admin 1.0.5
Release 1
© 2004 CERN, ELTE
on behalf of the EU EGEE Project

Welcome to VOMS!

VOMS is the Virtual Organization Membership Service, a central database for VO membership information.

This is the VOMS administration interface providing VO membership-related services for VO users and VO managers.

Please select an item from the services listed on the left side of this page.



Enabling Grids for E-science

The GILDA Monitoring System (http://alifarm7.ct.infn.it:50080/gridice)

GILDA - GridICE - Grid Monitoring Service - Mozilla

http://alifarm7.ct.infn.it:50080/gridice/site.php

GridICE
the eyes of the Grid

Site view VO view Job Monitoring Geo view Gris view

Site view::ALL >> Summary

Site	GK#	CE#	RunJob	WaitJob	JobLoad	SlotLoad	Power	WN#	CPU#	CPUload	Available
be.itu.edu.tr	1	3	3	0	100%	100%	-	-	-	-	139.2 Gb
cesnet.cz	1	1	0	0	-	-	-	-	-	-	3 Tb
cnaf.infn.it	1	4	0	1	0%	0%	6K	1	2	0%	13.4 Gb
ct.astro.it	1	4	0	17	0%	0%	4K	1	1	0%	104.5 Gb
ct.infn.it	2	7	0	0	0%	0%	-	-	-	-	1.4 Tb
grid.unipg.it	1	3	0	0	0%	0%	20K	8	10	3%	7.3 Gb
na.astro.it	1	4	0	0	0%	0%	-	-	-	-	213.8 Gb
pd.infn.it	1	4	2	6	20%	0%	8K	2	4	5%	498.6 Gb
ui.savba.sk	1	4	0	0	0%	0%	19K	4	4	0%	68.5 Gb
TOTAL	10	34	5	24	15%	12%	56K	16	21	18%	5.4 Tb

Generated: Fri, 6 May 2005 12:28:49 +0200

GILDA - GridICE - Grid Monitoring Service - Mozilla

http://alifarm7.ct.infn.it:50080/gridice/vo_details.php?voName=gilda&visi

Site view VO view Job Monitoring Geo view Gris view

VO view::gilda >> Core Services >> Computing Resources

Computing Resources Storage Resources

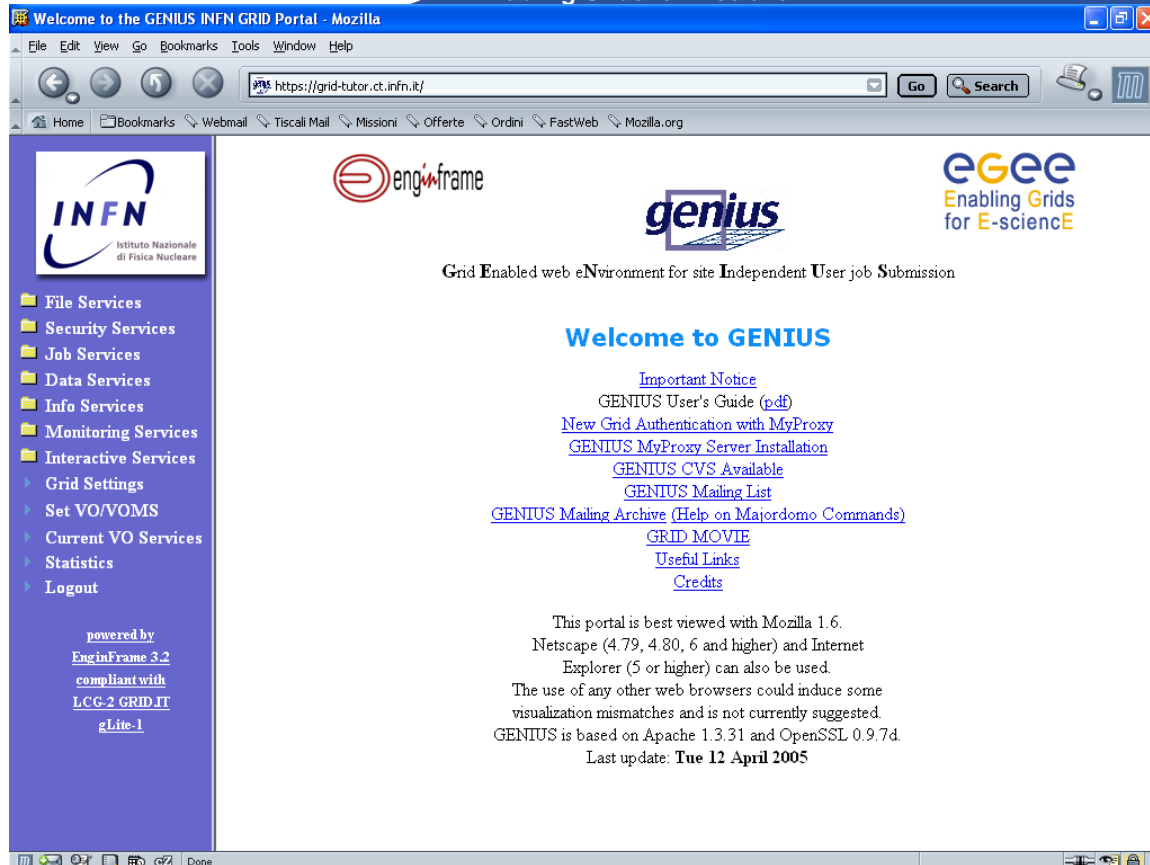
Computing Element ID	Site	Free Slots	Total Slots
cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-infinite	be.itu.edu.tr	0	2
cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-long	be.itu.edu.tr	0	2
cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-short	be.itu.edu.tr	0	2
skurut1.cesnet.cz:2119/jobmanager-lcgpbs-gilda	cesnet.cz	0	0
grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-cert	cnaf.infn.it	2	2
grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-infinite	cnaf.infn.it	2	2
grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-long	cnaf.infn.it	2	2
grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-short	cnaf.infn.it	2	2
gildace.ct.astro.it:2119/jobmanager-lcgpbs-infinite	ct.astro.it	1	1
gildace.ct.astro.it:2119/jobmanager-lcgpbs-long	ct.astro.it	1	1
gildace.ct.astro.it:2119/jobmanager-lcgpbs-short	ct.astro.it	1	1
ce-test.ct.infn.it:2119/jobmanager-lcglsf-infinite	ct.infn.it	8	8
ce-test.ct.infn.it:2119/jobmanager-lcglsf-long	ct.infn.it	8	8
ce-test.ct.infn.it:2119/jobmanager-lcglsf-short	ct.infn.it	8	8
grid010.ct.infn.it:2119/jobmanager-lcgpbs-infinite	ct.infn.it	19	19
grid010.ct.infn.it:2119/jobmanager-lcgpbs-long	ct.infn.it	19	19
grid010.ct.infn.it:2119/jobmanager-lcgpbs-short	ct.infn.it	19	19
ce.grid.unipg.it:2119/jobmanager-lcgpbs-infinite	grid.unipg.it	16	16
ce.grid.unipg.it:2119/jobmanager-lcgpbs-long	grid.unipg.it	16	16
ce.grid.unipg.it:2119/jobmanager-lcgpbs-short	grid.unipg.it	16	16
grid4.na.astro.it:2119/jobmanager-lcgpbs-cert	na.astro.it	7	7
grid4.na.astro.it:2119/jobmanager-lcgpbs-infinite	na.astro.it	7	7
grid4.na.astro.it:2119/jobmanager-lcgpbs-long	na.astro.it	7	7
grid4.na.astro.it:2119/jobmanager-lcgpbs-short	na.astro.it	7	7
gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-infinite	pd.infn.it	2	2

Computing Resources Storage Resources

Storage Element ID	Storage Space ID	Site	Free Space	Used Space
cn02.be.itu.edu.tr	gilda:gilda	be.itu.edu.tr	139.22 Gb	32 Mb
testbed005.cnaf.infn.it	gilda:gilda	cnaf.infn.it	13.44 Gb	1.89 Gb
gildase.ct.astro.it	gilda:gilda	ct.astro.it	104.54 Gb	1.92 Gb
grid009.ct.infn.it	gilda:gilda	ct.infn.it	1.38 Tb	638.26 Gb
alifarm12.ct.infn.it	gilda:gilda	ct.infn.it	22.19 Gb	2.68 Gb
se.grid.unipg.it	gilda:gilda	grid.unipg.it	7.33 Gb	1.79 Gb
grid3.na.astro.it	gilda:gilda	na.astro.it	213.79 Gb	3.23 Gb
gilda-se-01.pd.infn.it	gilda:gilda	pd.infn.it	498.59 Gb	727 Mb
dgt02.ui.savba.sk	gilda:gilda	ui.savba.sk	68.54 Gb	145 Mb

Generated: Fri, 6 May 2005 12:49:01 +0200

GridICE Homepage







Welcome to the GENIUS INFN GRID Portal - Mozilla

File Edit View Go Bookmarks Tools Window Help

https://grid-tutor.ct.infn.it/

Home Bookmarks Webmail Tiscali Mail Missioni Offerte Ordini FastWeb Mozilla.org

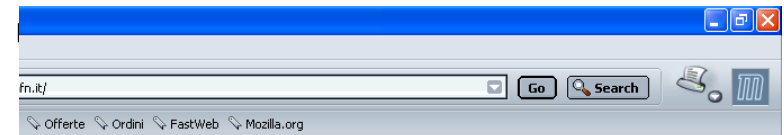
Grid Enabled web eNvironment for site Independent User job Submission

Welcome to GENIUS

[Important Notice](#)
[GENIUS User's Guide \(pdf\)](#)
[New Grid Authentication with MyProxy](#)
[GENIUS MyProxy Server Installation](#)
[GENIUS CVS Available](#)
[GENIUS Mailing List](#)
[GENIUS Mailing Archive \(Help on Majordomo Commands\)](#)
[GRID MOVIE](#)
[Useful Links](#)
[Credits](#)

This portal is best viewed with Mozilla 1.6.
 Netscape (4.79, 4.80, 6 and higher) and Internet Explorer (5 or higher) can also be used.
 The use of any other web browsers could induce some visualization mismatches and is not currently suggested.
 GENIUS is based on Apache 1.3.31 and OpenSSL 0.9.7d.
 Last update: Tue 12 April 2005

powered by
[EnginFrame 3.2](#)
 compliant with
[LCG-2 GRID.IT](#)
[gLite-1](#)



fr.it/

Offerte Ordini FastWeb Mozilla.org



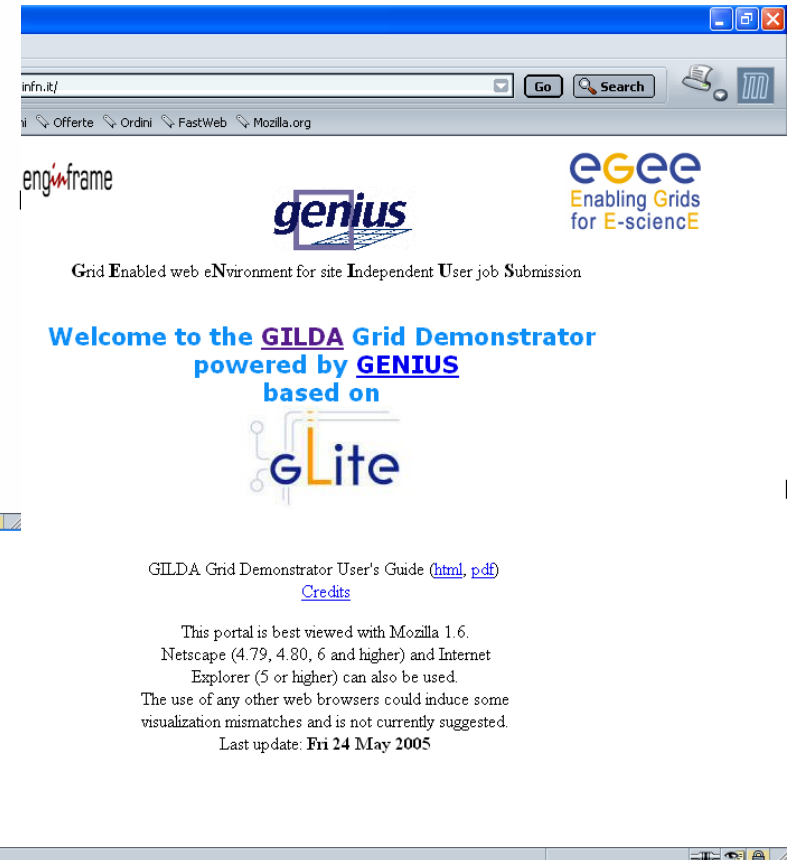

Grid Enabled web eNvironment for site Independent User job Submission

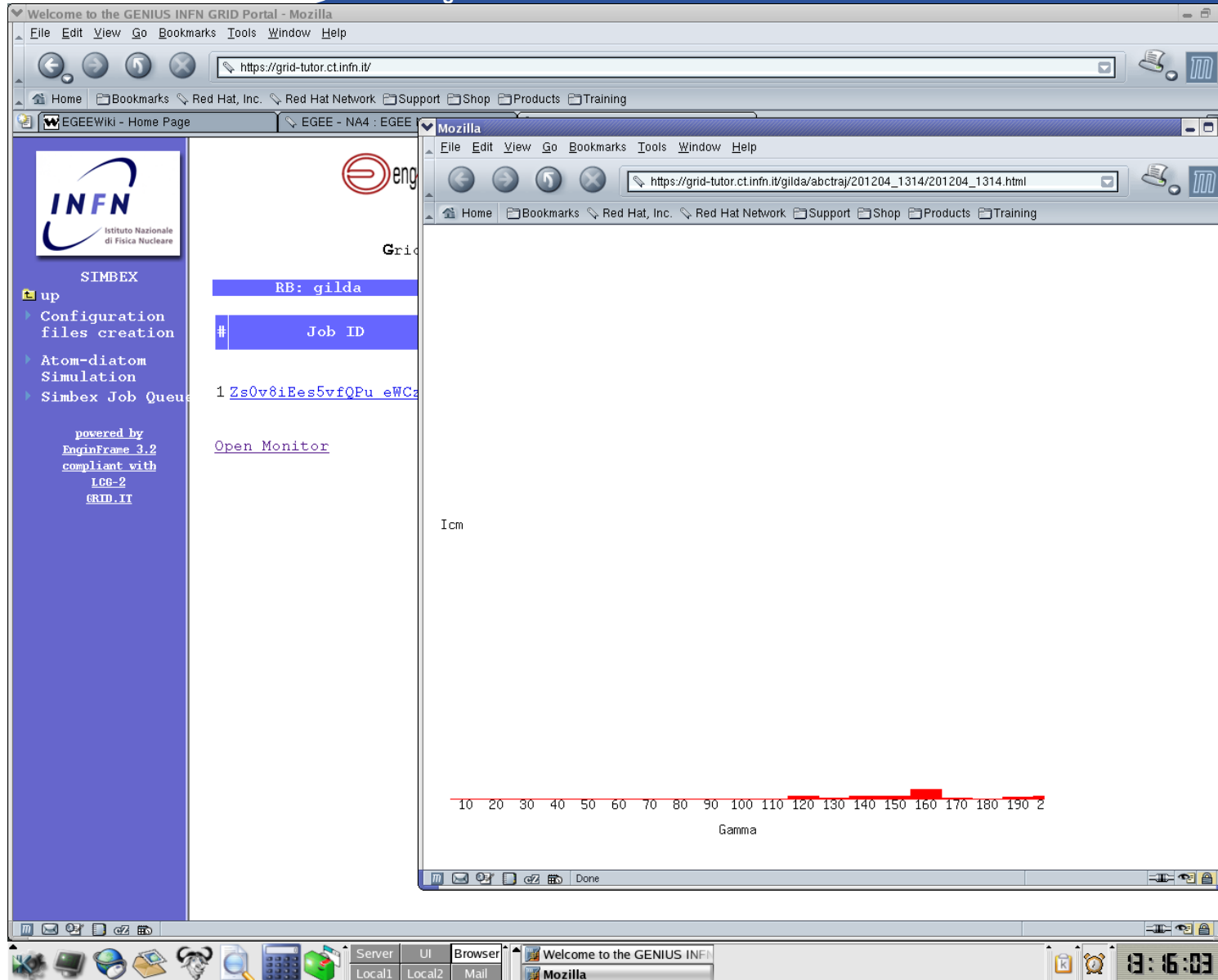
Welcome to GENIUS based on



[Important Notice](#)
[GENIUS User's Guide \(pdf\)](#)
[New Grid Authentication with MyProxy](#)
[GENIUS MyProxy Server Installation](#)
[GENIUS CVS Available](#)
[GENIUS Mailing List](#)
[GENIUS Mailing Archive \(Help on Majordomo Commands\)](#)
[GRID MOVIE](#)
[Useful Links](#)
[Credits](#)

This portal is best viewed with Mozilla 1.6.
 Netscape (4.79, 4.80, 6 and higher) and Internet Explorer (5 or higher) can also be used.
 The use of any other web browsers could induce some visualization mismatches and is not currently suggested.





The screenshot shows a Mozilla browser window with the following content:

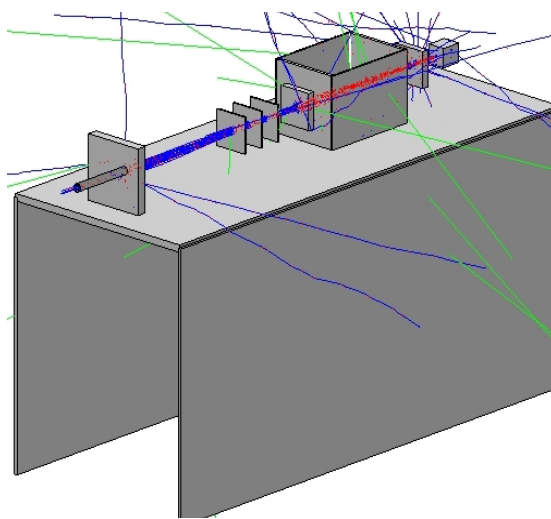
- Address Bar:** `https://grid-tutor.ct.infn.it/`
- Page Title:** Welcome to the GENIUS INFN GRID Portal - Mozilla
- Left Sidebar:**
 - INFN Istituto Nazionale di Fisica Nucleare
 - SIMBEX
 - up
 - Configuration files creation
 - Atom-diatom Simulation
 - Simbex Job Queue
 - powered by EnginFrame 3.2 compliant with LCG-2 GRID.IT
- Main Content Area:**
 - eng logo
 - Grid
 - RB: gilda
 - Table with columns: #, Job ID
 - Row 1: 1 Zs0v8iEes5vfQPu_eWCz
 - Open Monitor
 - Icm
 - Gamma plot with x-axis from 10 to 200.
- Taskbar:** Shows system tray with clock at 13:16:03 and open windows for Server, UI, Browser, and Mozilla.

Interactive MPI jobs !

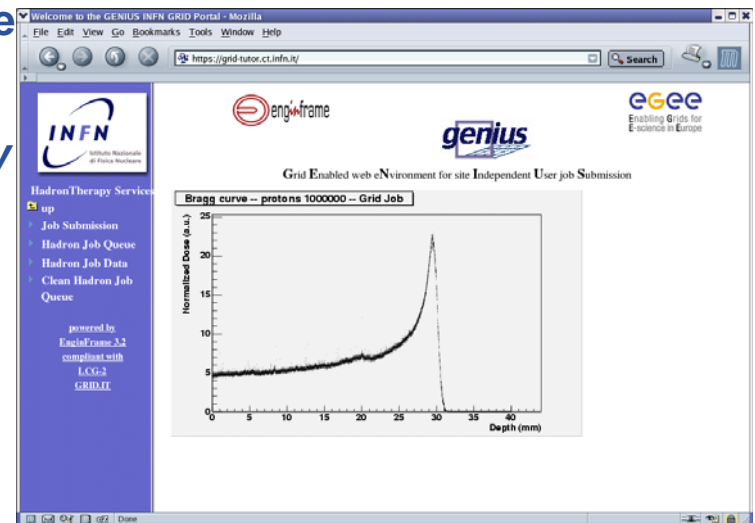
CATANA beam line in reality



hadronTherapy in GENIUS



CATANA beam line simulated by hadronTherapy




Welcome to the GENIUS INFN GRID Portal - Mozilla


File Edit View Go Bookmarks Tools Window Help


https://grid-tutor.ct.infn.it/


Home Bookmarks Red Hat, Inc. Red Hat Network Support Shop Products Training



Istituto Nazionale di Fisica Nucleare







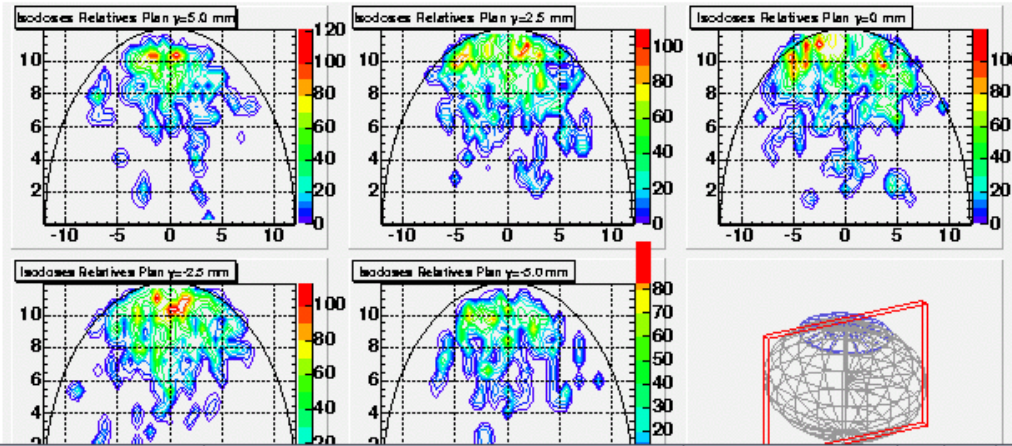
Enabling Grids for E-science in Europe

Grid Enabled web eNvironment for site Independent User job Submission

RB: gilda	VO: gilda	RLS: GILDA	Your Data	Logout
Destroy	Directory contents - tmp1100001761583.ef/gate_job_list_20041109_123955			

RelDoseTree.gif (GIF Image, 606x302 pixels) - Mozilla

https://grid-tutor.ct.infn.it/ef/download/RelDoseTree.gif



Jobs Services

- up
- Jobs Settings
- Jobs Submission
- Jobs Queue
- GATE job data

powered by
EnginFrame 3.2
compliant with
LCG-2
GRID.IT



GILDA
PnP
GILDA User Interfaces Plug & Play

**GILDA USER INTERFACE PLUG & PLAY
COMBINED
(LCG AND GLITE)**

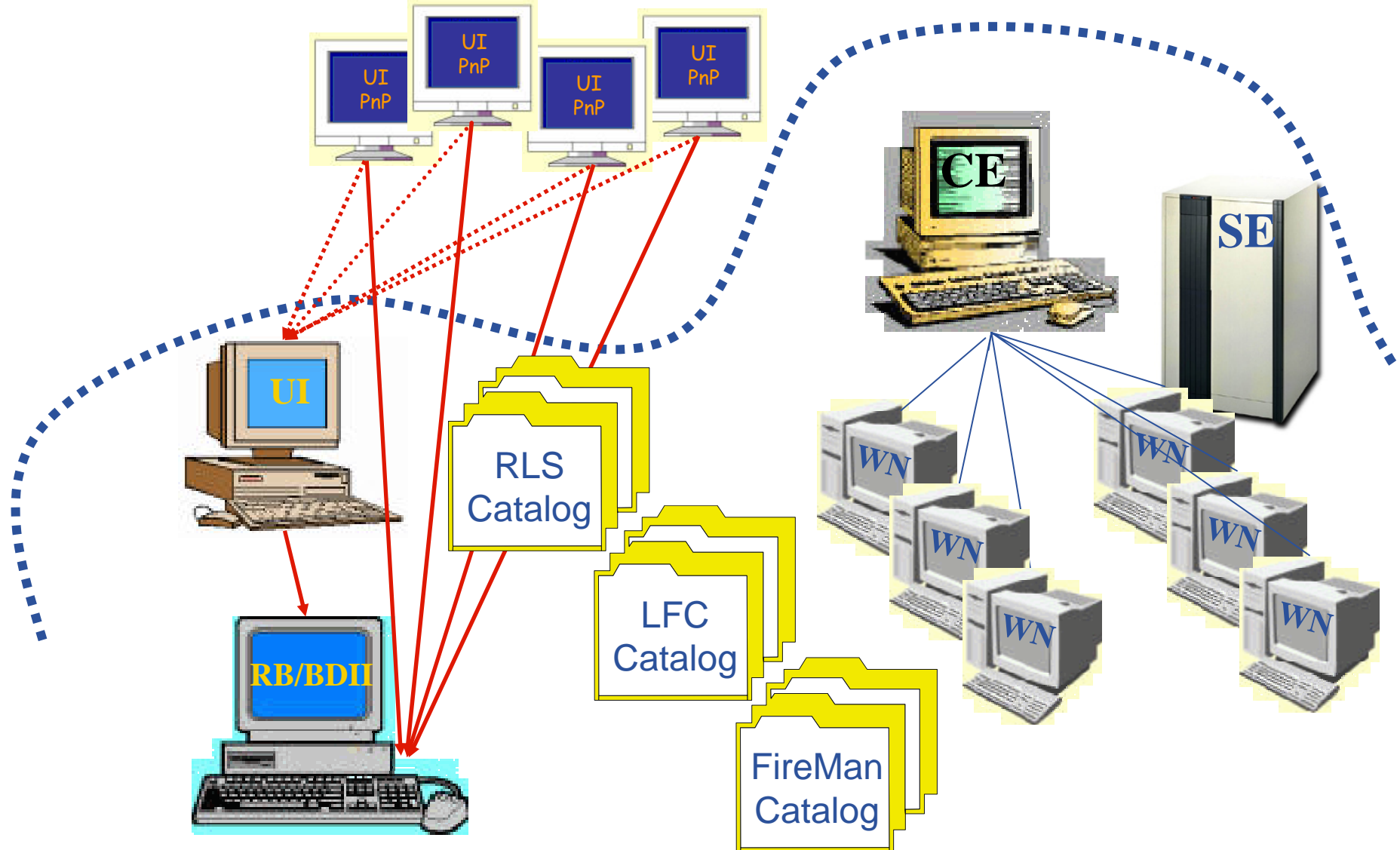
The *GILDA User Interface Plug & Play* tarball contains all the necessary software to seamlessly turn your Linux PC into a machine from you can access and use the *GILDA* dissemination grid realized in the context of both the Italian *INFN Grid Project* and the European *EGEE Project*. The installation procedure installs the User Interface in the user directory so no root privilege is required. This User Interface is based both on *INFN Grid 2.4.0* (fully compatible with *LCG 2.4.0*) and *gLite 1.1*.

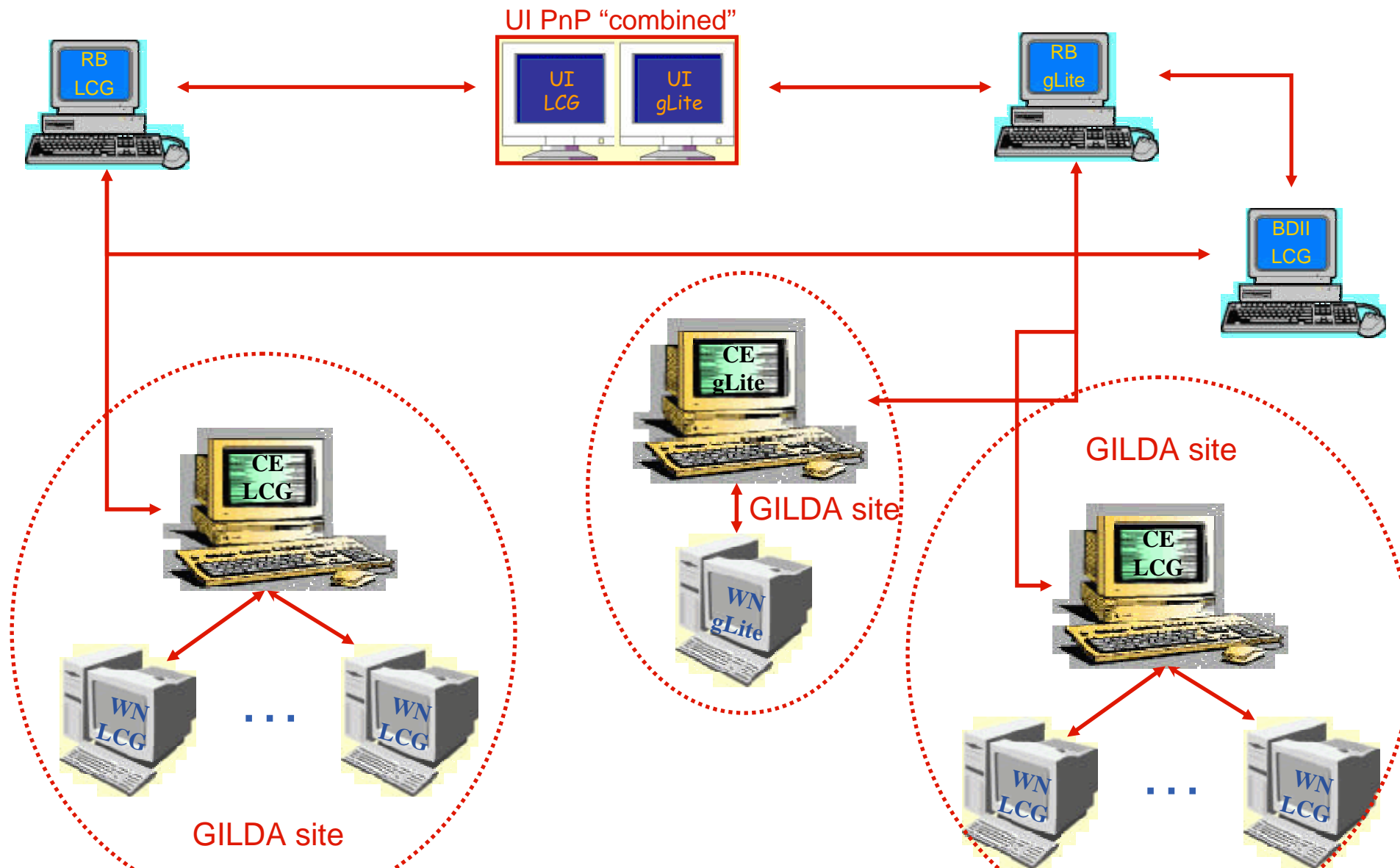
- Grid tutorials
- GILDA Poster
- Video tutorials
- Live User Interface
- User Interface PnP **NEW**
- Instructions for users
- Instructions for sites
- Useful links
- Sponsors
- Usage Statistics
- Old Usage Statistics

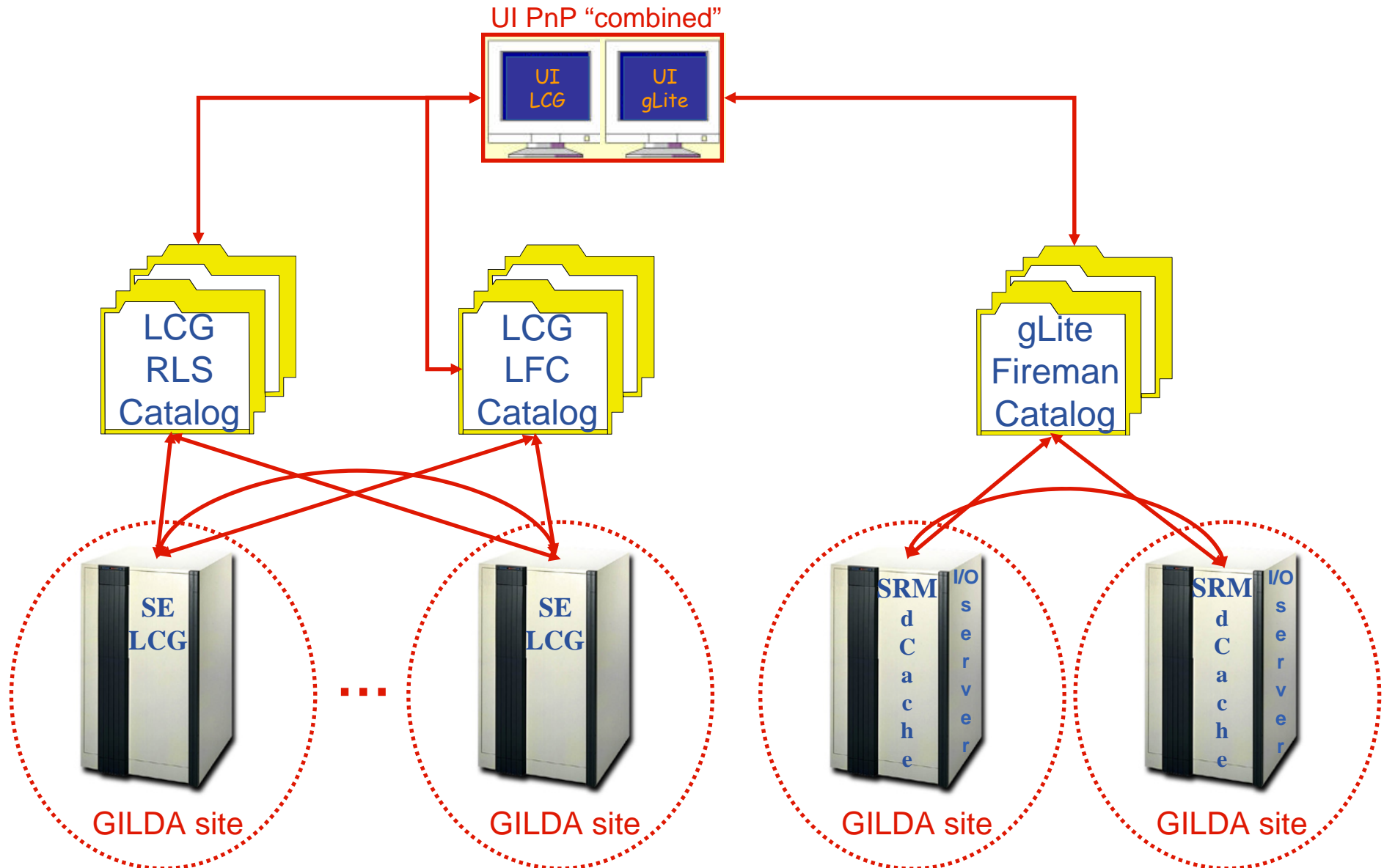
GILDA User Interface Plug & Play

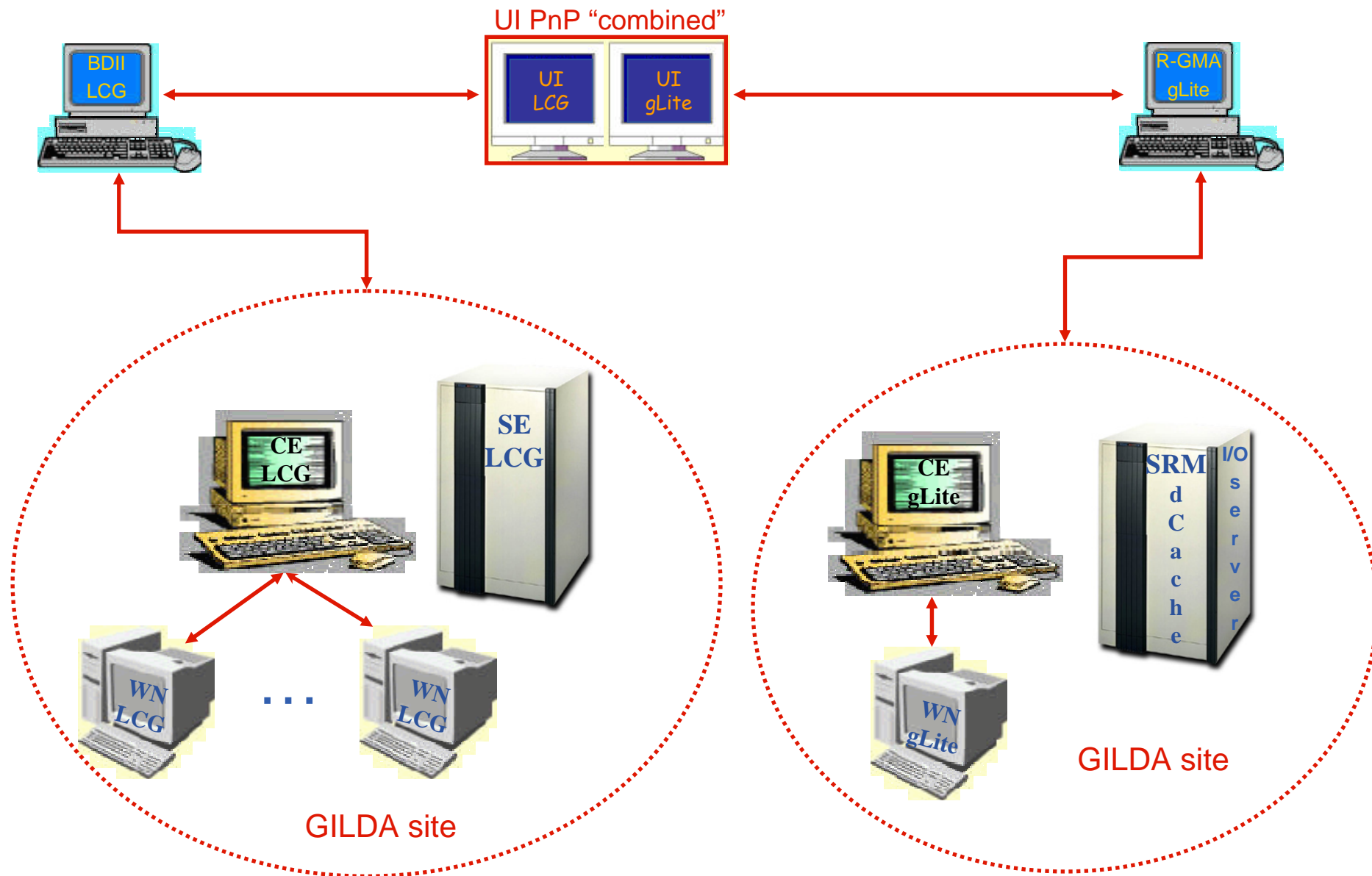
- Introduction
- Use
- Download
- Useful links & info
- Contacts & acknowledgments

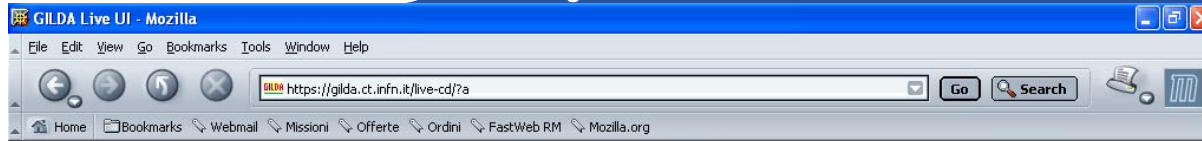
Students User Interfaces











- Grid tutorials
- GILDA Poster
- Video tutorials
- Live User Interface NEW
- User Interface PnP
- Instructions for users
- Instructions for sites
- Useful links

- Sponsors
- Usage Statistics
- Old Usage Statistics



GILDA LIVE USER INTERFACE

The *GILDA Live User Interface* DVD contains all the necessary software and use the [GILDA](#) dissemination grid realized in the context of the [INFN Grid Project](#) and the European [EGEE Project](#). *GILDA Live User Interface* is based both on [INFN Grid 2.4.0](#) (fully compliant with [LCG 2.4.0](#)) and [gLite 1.1](#) on [Knoppix 3.6](#).

SYSTEM REQUIREMENTS

The Grid middleware installed on the GILDA testbed and, then, on

GILDA Live
User
Interface



GILDA User Interface
gLite 1.1 and LCG 2.4



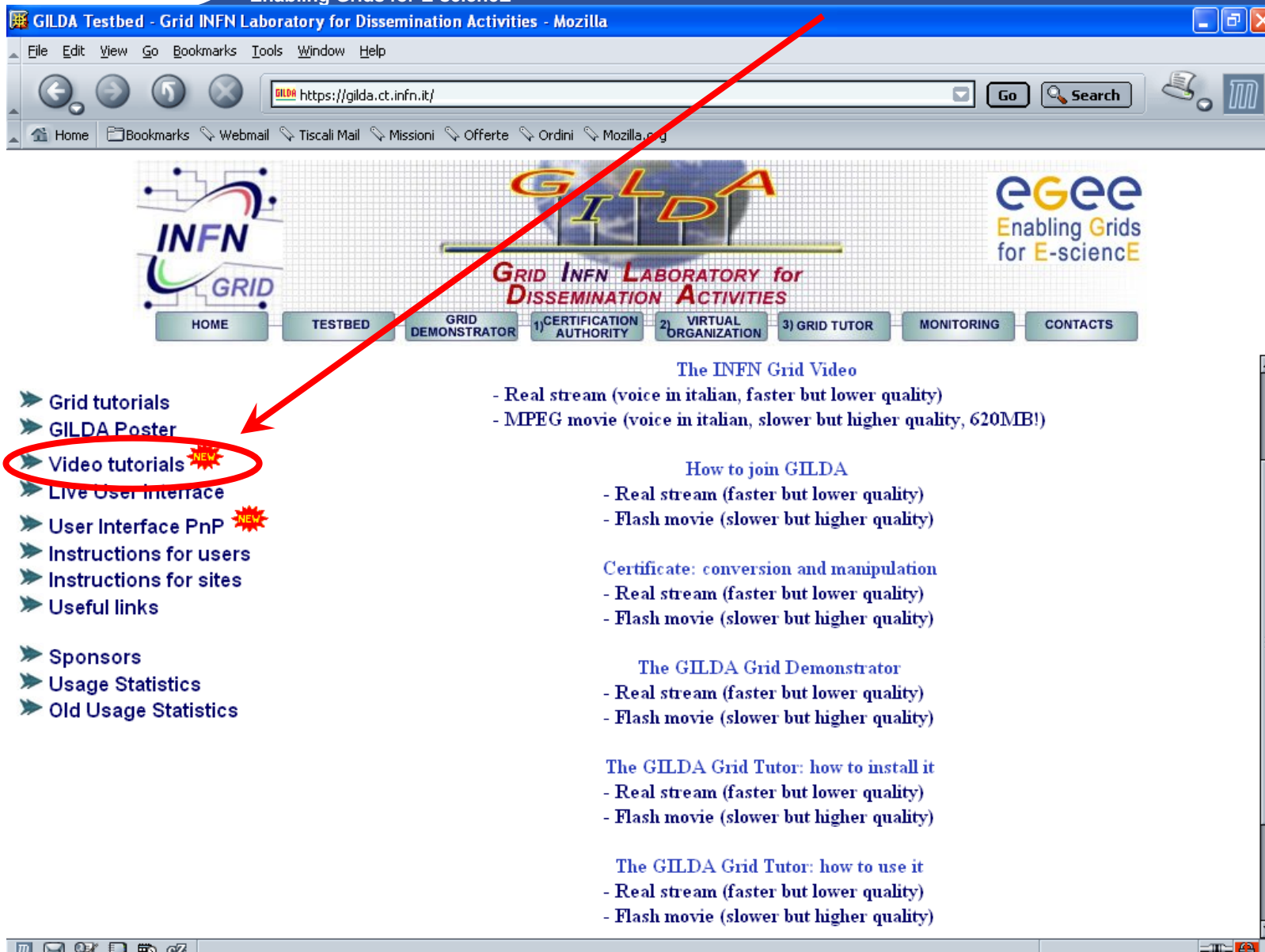
2004

Edinburgh, 7 April 2004, [slides](#), [pictures](#)
 Tunis, 22-23 April 2004, [pictures](#)
 Edinburgh, 26-28 April 2004, [slides](#), [pictures](#)
 CERN, 17-19 May 2004, [pictures](#)
 Catania, 24-25 May 2004, [home page](#), [pictures](#)
 Dubna, 29 June - 2 July 2004, [agenda](#)
 Edinburgh, 6 July 2004, [home page](#)
 Catania, 14-16 July 2004, [home page](#), [pictures](#)
 Vico Equense, 19 July 2004, [slides](#), [pictures](#)
 Vico Equense, 6-10 September 2004, [home page](#)
 Catania, 4-8 October 2004, [home page](#), [agenda](#)
 Vilnius, 5-6 October 2004, [agenda](#)
 London, 6 October 2004
 Madrid, 6-7 October 2004, [agenda](#)
 Heidelberg, 11-14 October 2004
 CERN, 16 October 2004
 Prague, 26 October 2004, [home page](#)
 Warsaw, 4-6 November 2004, [home page](#), [agenda](#)
 Lyon, 9-10 November 2004, [agenda](#)
 The Hague, 15-17 November 2004, [pictures](#)
 Merida, 15-20 November 2004, [home page](#), [agenda](#),
[slides](#), [pictures](#)
 Tunis, 20 November 2004
 Rio de Janeiro, 22-23 November 2004, [home page](#),
[agenda](#), [pictures](#)
 The Hague, 24 November 2004, [agenda](#)
 CERN, 29-30 November 2004, [agenda](#)
 Kosice, 30 November - 1 December 2004, [agenda](#)
 Tunis, 6-7 December 2004
 Bochum, 7-10 December 2004, [home page](#), [agenda](#)
 Edinburgh, 8 December 2004, [home page](#)
 Istanbul, 9-10 December 2004, [agenda](#), [slides](#), [pictures](#)
 Shanghai, 9-10 December 2004, [agenda](#)
 Aurillac, 13-14 December 2004
 Prague, 16 December 2004, [home page](#), [pictures](#)
 Tel Aviv, 22-23 December 2004, [agenda](#), [pictures](#)

2005

CERN, 13 January 2005, [agenda](#)
 Torino, 18-19 January 2005, [home page](#), [agenda](#)
 CERN, 20 January 2005, [agenda](#)
 CERN, 2-4 February 2005, [agenda](#)
 Roma, 3 February 2005, [home page](#), [agenda](#), [pictures](#)
 Sydney, 3-4 February 2005, [home page](#)
 CERN, 9-11 February 2005, [agenda](#)
 Amsterdam, 14-16 February 2005, [home page](#)
 Trento, 23-25 February 2005, [home page](#), [agenda](#)
 Amsterdam, 28 February - 1 March 2005, [home page](#)
 Julich, 9 March 2005,
 Clermont-Ferrand, 9-31 March 2005, [agenda](#)
 Vienna, March-August 2005
 Hamburg, 23-24 March 2005, [home page](#), [agenda](#)
 Ula-Merida, 31 March-1 April 2005, [agenda](#)
 Zilina, 4 April 2005, [home page and agenda](#)
 Edinburgh, 9-13 May 2005, [home page and agenda](#)
 St. Augustin, 25 May 2005, [home page and agenda](#)
 Catania, 13-15 June 2005, [home page](#), [agenda](#), [pictures](#)
 Valencia, 14-16 June 2005, [home page](#), [agenda](#)
 Lyon, 17 June 2005, [home page and agenda](#)
 Bratislava, 27-30 June 2005, [agenda](#)
 Forschungszentrum Karlsruhe, 08 July 2005, [home page and agenda](#)
 Vico Equense, 10-22 July 2005, [home page](#), [agenda](#)
 Budapest, 11-16 July 2005, [home page](#), [agenda](#)
 Clermont-Ferrand, 25-27 July 2005, [home page](#), [agenda](#)
 Madrid, 26-27 July 2005, [home page](#), [agenda](#)
 Swansea, 06 August 2005, [home page and agenda](#)
 Taipei, 22-23 August 2005, [home page and agenda](#)
 Tokyo, 25-26 August 2005, [home page and agenda](#)
 Seoul, 29-30 August 2005, [home page and agenda](#)
 Saint-Malo, 12-15 September 2005, [home page](#), [agenda](#)





Grid tutorials

GILDA Poster

Video tutorials NEW

Live User Interface

User Interface PnP NEW

Instructions for users

Instructions for sites

Useful links

Sponsors

Usage Statistics

Old Usage Statistics

The INFN Grid Video

- Real stream (voice in italian, faster but lower quality)
- MPEG movie (voice in italian, slower but higher quality, 620MB!)

How to join GILDA

- Real stream (faster but lower quality)
- Flash movie (slower but higher quality)

Certificate: conversion and manipulation

- Real stream (faster but lower quality)
- Flash movie (slower but higher quality)

The GILDA Grid Demonstrator

- Real stream (faster but lower quality)
- Flash movie (slower but higher quality)

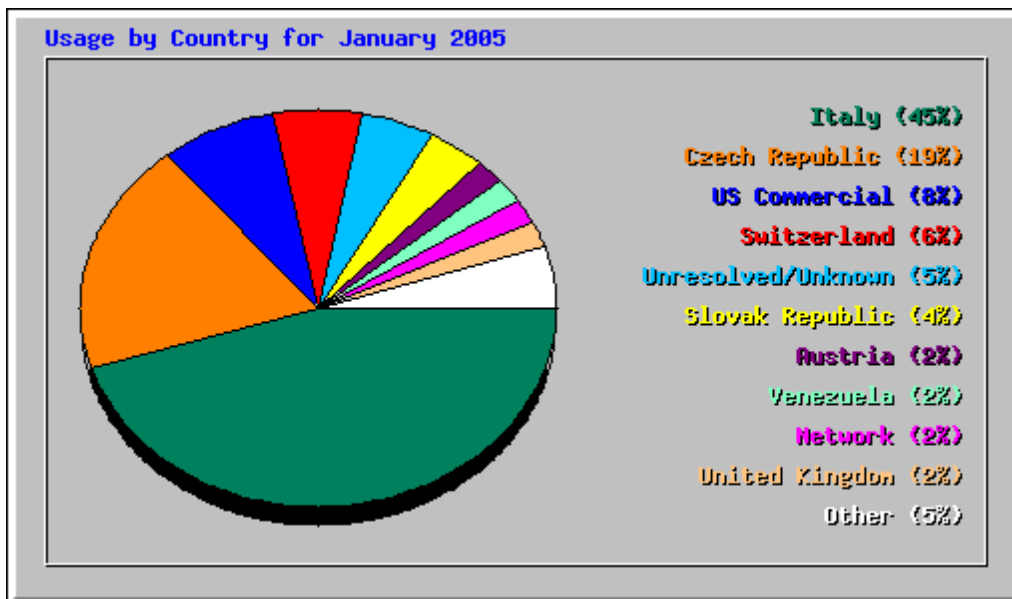
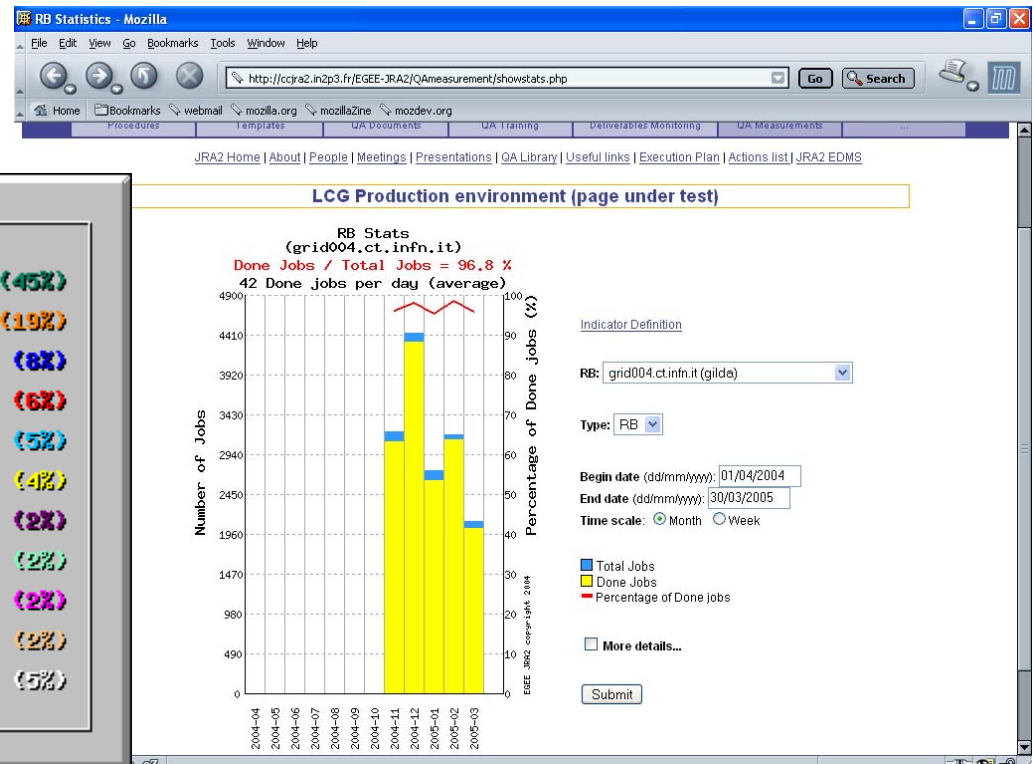
The GILDA Grid Tutor: how to install it

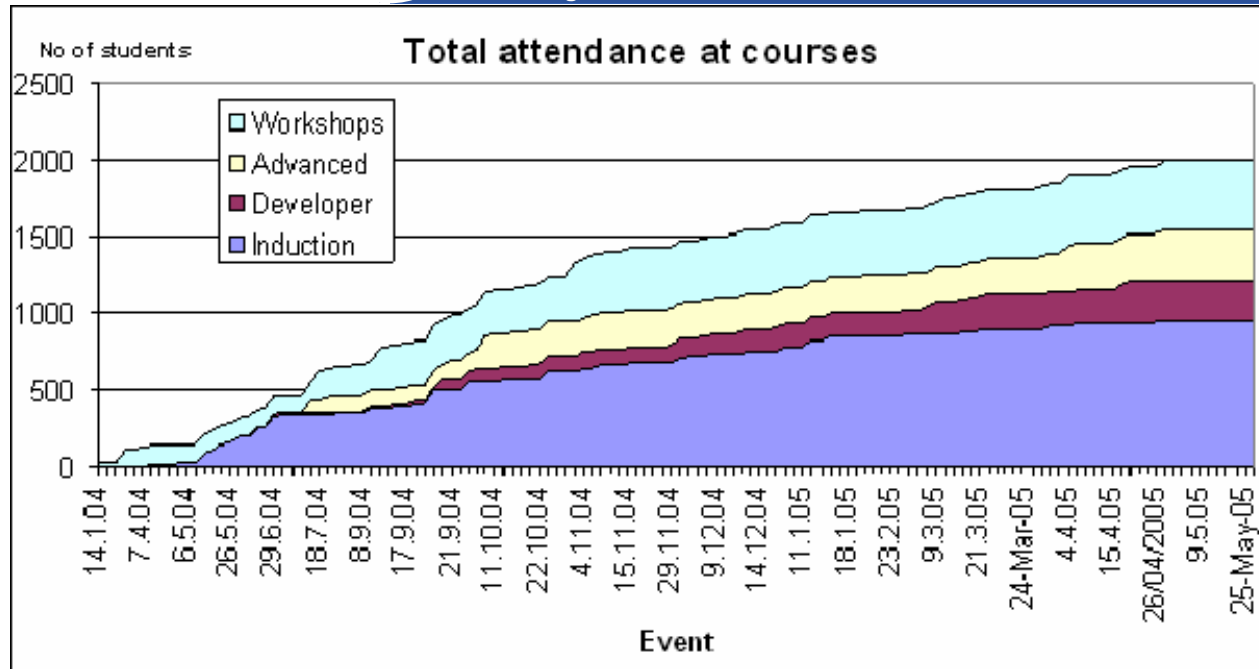
- Real stream (faster but lower quality)
- Flash movie (slower but higher quality)

The GILDA Grid Tutor: how to use it

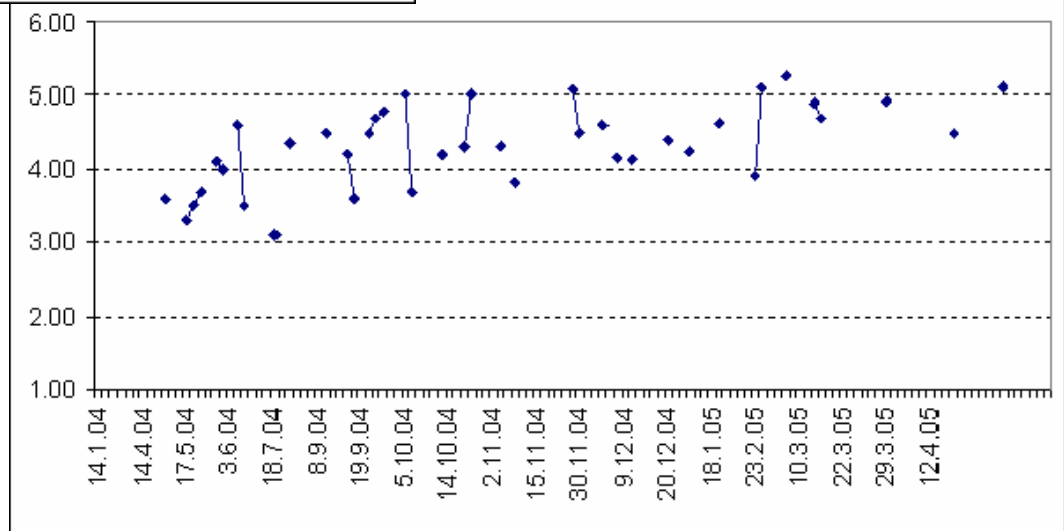
- Real stream (faster but lower quality)
- Flash movie (slower but higher quality)

- 15 sites in 3 continents
- > 2000 certificates issued, 15% renewed at least once
- > 50 tutorials and demos performed in 15 months
- > 50 jobs/day on the average
- Job success rate above 80%
- > 750,000 hits (> 40,000 visits) on (of) the web site from 10's of different countries
- > 0.5 TB of videos and UI's downloaded from the web site





Overall Feedback



- **7 Virtual Organizations supported:**
 - Biomedicine (Biomed)
 - Earth Science Academy (ESR)
 - Earth Science Industry (CGG)
 - Astroparticle Physics (MAGIC)
 - Computational Chemistry (GEMS)
 - Grid Search Engines (GRACE)
 - Astrophysics (PLANCK)
- **Development of complete interfaces with GENIUS for 3 Biomed Applications: GATE, hadronTherapy, and Friction/Arlecione**
- **Development of complete interfaces with GENIUS for 4 Generic Applications: EGEODE (CGG), MAGIC, GEMS, and CODESA-3D (ESR) (successfull demos of EGEODE and GEMS at EGEE review)**
- **Development of complete interfaces with GENIUS for 16 demonstrative applications available on the GILDA Grid Demonstrator (<https://grid-demo.ct.infn.it>)**
- **Development of complete interface with CLI for NEMO**

- **The EGEE middleware:**
 - Is exiting prototyping phase and entering real production phase (LHC first real data are only 2 years away from now!)
 - Implements a full and complete stack of grid services that can be used all together or separately at user's discretion
 - Closely follow the standardization process going in GGF and other for a
- **GILDA is a real virtual laboratory for dissemination of grid computing:**
 - It is a “de facto” standard t-Infrastructure adopted both by EGEE and some forthcoming EU-FP6 projects (EELA, EUCHINAGRID, EUMEDGRID, **ICEAGE**)
 - It is a complete suite of grid elements (test-bed, CA, VO, monitoring system, web portal, **live user interface, user interface plug&play**) and applications fully dedicated to dissemination purposes and pre-orting of new applications to EGEE Infrastructure
 - GILDA runs latest production (stable) version of both the LCG grid middleware but it is also early adopting gLite in order to make the transition to the new middleware smoother and easier