



EUChinaGrid status report

*Giuseppe Andronico
INFN Sez. Di Catania
CERN – March 3° 2006*



FP6-2004-Infrastructures-6-SSA-026634

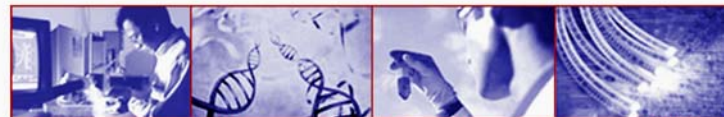


<http://www.euchinagrid.org>



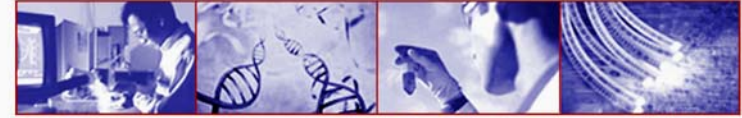
Outline

- ▶ The project
- ▶ Kick off meeting
- ▶ Tools
- ▶ What was just done
- ▶ News from WPs



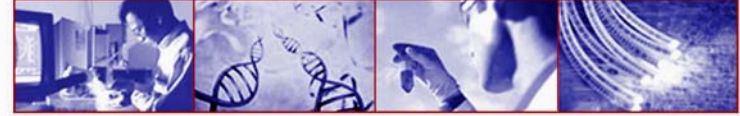
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The project



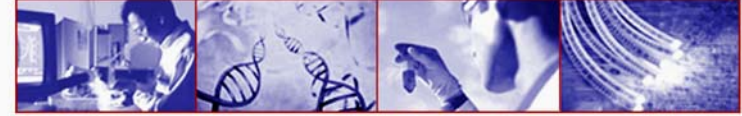
Partners

1	Istituto Nazionale di Fisica Nucleare (IT) (coordinator)
2	European Organisation for Nuclear Research CERN (CH)
3	Dipartimento di Biologia - Università di Roma Tre (IT)
4	Consortium GARR (IT)
5	Greek Research & Technology Network (GR)
6	Jagiellonian University – Medical College, Cracow (PL)
7	School of Computer Science and Engineering – Beihang University Beijing (CN)
8	Computer Network Information Center, Chinese Academy of Sciences – Beijing (CN)
9	Institute of High Energy Physics, Beijing (CN)
10	Peking University – Beijing (CN)



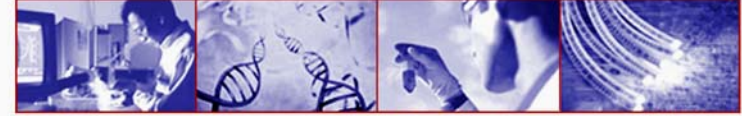
Objectives

- O1** Contribute to the creation of an human network promoting international collaboration
- O2** Disseminate European experience in China and confront with Chinese experience
- O3** Support interoperability of EGEE with the corresponding infrastructure in China, fronting the multi-protocol (IPv4/IPv6) network infrastructure
- O4** Use existing network infrastructure and foster its development
- O5** Foster interoperability of solutions across different disciplines to achieve broader scale uptake of Grid technology
- O6** Harmonize European, and Chinese eScience user and infrastructure requirements in terms of resources needed, Grid services, and application software. Provide recommendations for adapting the present best practices and tools (Virtual Organizations, Certification Authority, Policies, etc.).

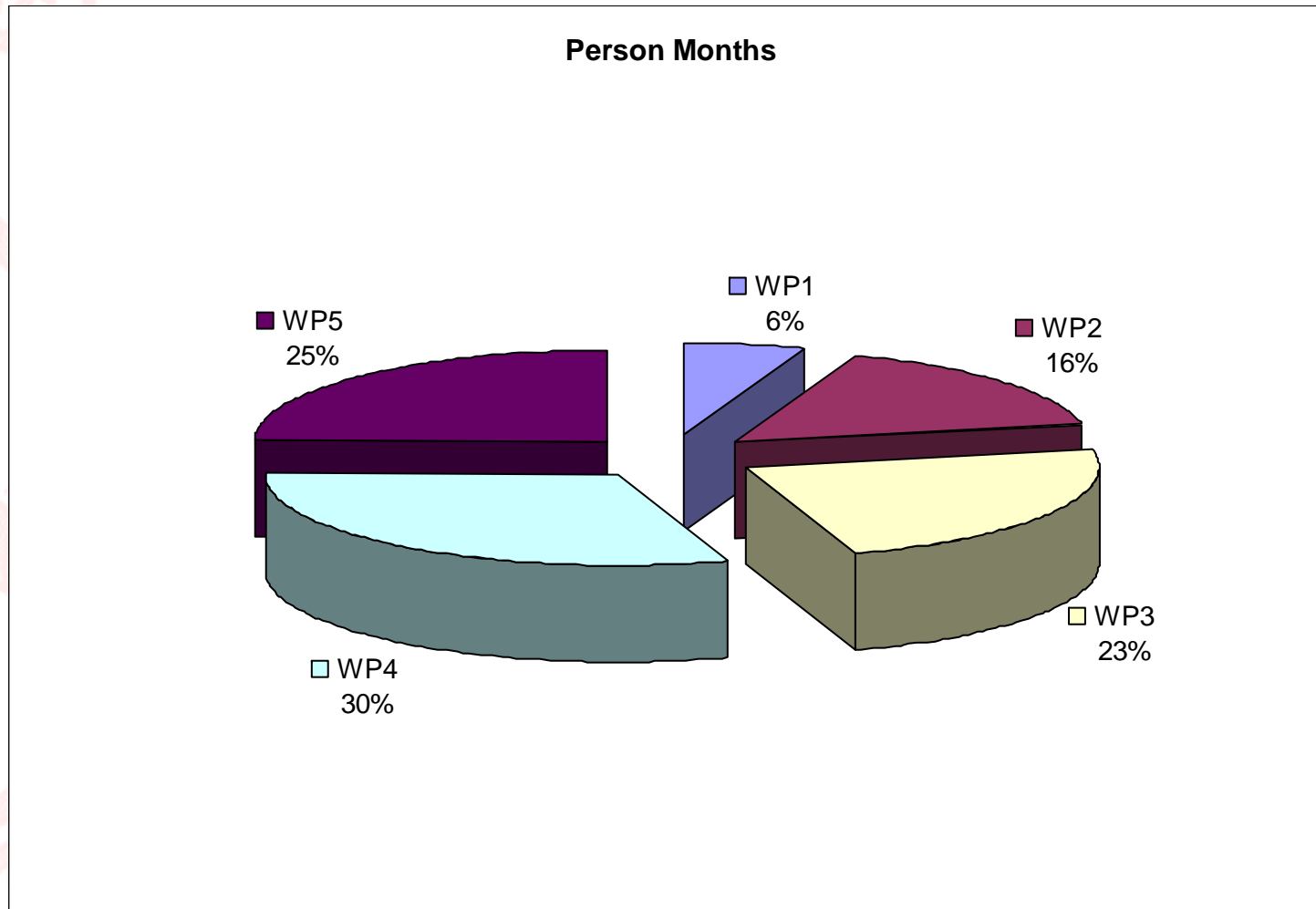


Work Packages

Activity	Leader	Partner
WP1 - Project administrative & technical management	Federico Ruggieri	INFN
WP2 - Network planning and interoperability study	<i>Gabriella Paolini</i>	GARR
WP3 - Pilot infrastructure operational support	<i>Cristina Vistoli</i>	INFN
WP4 - Applications	<i>Fabio Polticelli</i>	UROM3
WP5 - Dissemination	<i>Federica Tanlongo</i>	GARR



Human resources





Applications

- ▶ EGEE Applications
 - will use the the existing Vos of selected applications
- ▶ Biology: Never Born Proteins
 - Will check if use BioMed VO or ask for another new one
- ▶ Astroparticle Physics: Argo
 - Just own a VO in Italy

The ARGO-YBJ Experiment

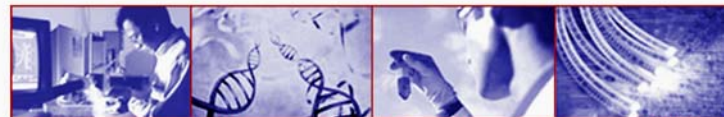


- Unique High Altitude Cosmic Ray Laboratory (4300 m) Tibet, 90 km North to Lhasa. Chinese-Italian collaboration.
- The Experiment data rate to be transferred is 250 TB/Year requiring a steady transfer rate of the order of 100 Mbps to Beijing and from there to Italy.



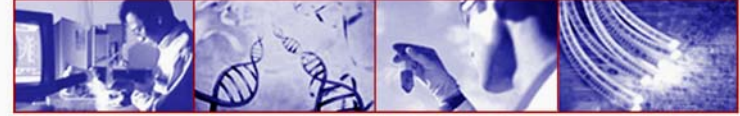
Kick off meeting

- ▶ In Athens January 24° and 25°
- ▶ All partners were present
- ▶ WP activities officially started
- ▶ Tools have been presented
- ▶ Needed decisions have been taken



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Tools



WEB site: www.euchinagrid.org



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[chinese version](#)

the EUChinaGRID initiative

EUChinaGRID is an initiative to extend the European GRID infrastructure for e-Science to China.

The first aim of **EUChinaGRID** will be to facilitate scientific data transfer and processing in a first sample of application areas that have already strong collaborations between Europe and China.

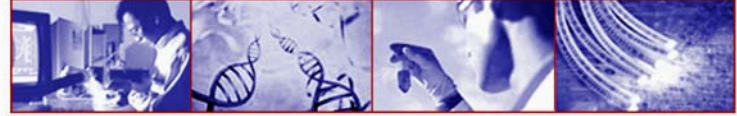
These **pilot applications** will immediately profit of the new infrastructure, and will be subsequently regarded as the driving force to test and deploy an effective grid infrastructure between Europe and China.

[home](#) | [public area](#) | [project status](#) | [working tools](#)

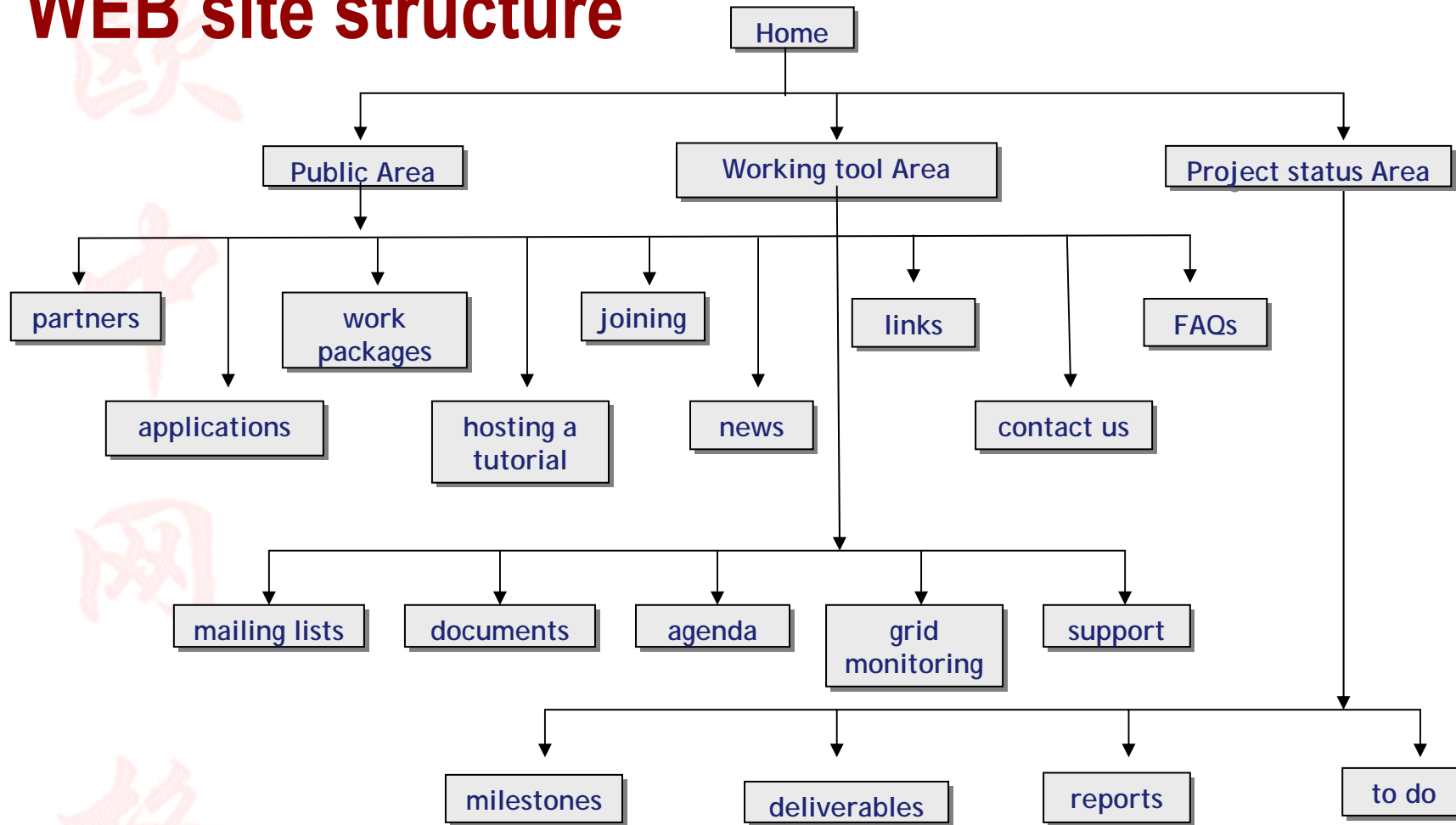
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HIGHLIGHTS

Download the **project information sheet**.



WEB site structure





The agenda system: agenda.euchinagrid.org

★ euchinagrid ★

★ Interconnection & Interoperability of Grids between Europe & China ★

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Categories:

- [Project Management Board meetings](#) (1) 🗄️ 📅
- [Technical Board meetings](#) (0) 🗄️ 📅
- [WP2 meetings](#) (0) 🗄️ 📅
- [WP3 meetings](#) (0) 🗄️ 📅
- [WP4 meetings](#) (0) 🗄️ 📅
- [WP5 meetings](#) (0) 🗄️ 📅
- [Other project meetings](#) (3) 🗄️ 📅
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- [Project Conferences and Workshops](#) (1) 🗄️ 📅
- [External events](#) (6) 🗄️ 📅



The user support system

support.euchinagrid.org

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HOME Q&A CONTACT

search

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▶ Who's Online

1 user(s) are online (1 user(s) are browsing **xhelp**)

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Narrow by collection:

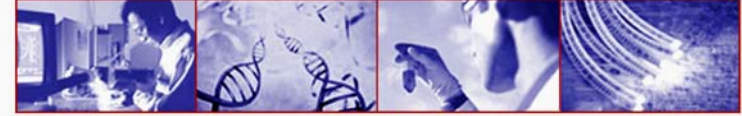
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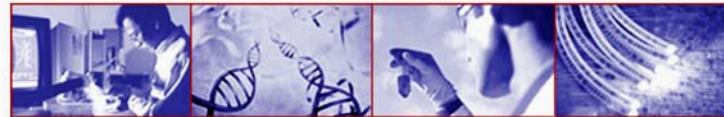
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Last updated 05 Jan 2006 15:00:23 CET

This site is also available in the following languages:
English



The mailing lists

- ▶ partners@euchinagrid.org
- ▶ po@euchinagrid.org
- ▶ tb@euchinagrid.org
- ▶ pmb@euchinagrid.org
- ▶ [wp\[2,3,4,5\]@euchinagrid.org](mailto:wp[2,3,4,5]@euchinagrid.org)
- ▶ www.euchinagrid.org/mailing_list.html



What was just done

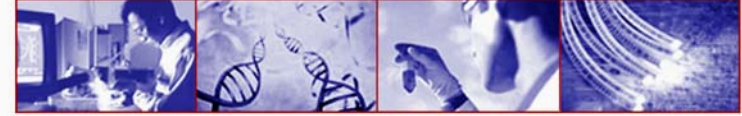
- ▶ Infrastructure
- ▶ Events program

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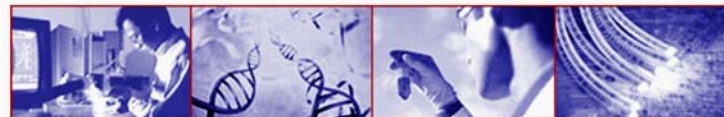
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Infrastructure



What we have already done

- ▶ RB + BDII at CNAF
- ▶ VOMS at CNAF
<https://voms2.cnaf.infn.it:8443/voms/euchina/>
- ▶ LFC at CNAF: lfcserver.cnaf.infn.it:/grid/euchina
- ▶ Gridlce at CNAF
- ▶ Sites linked:
 - Roma 3
 - CNAF
 - Catania
 - Athens
 - 2 sites in Beijing



Welcome to the euchina VO

The **euchina VO**

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](#)

Welcome to VOMS!

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

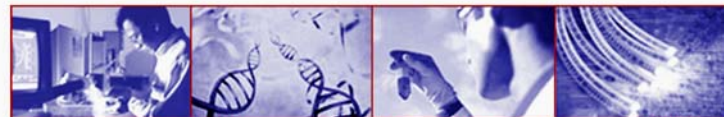
This is the web user interface of the VOMS Admin service for the euchina VO. It provides services relating to VO membership for VO users and VO managers.

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

VOMS Admin 1.2.10
 Release 1

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 on behalf of the [EU EGEE Project](#)

You are logged in as "/C=IT/O=INFN/OU=Personal Certificate/L=Catania/CN=Giuseppe Andronico/Email=Giuseppe.Andronico@ct.infn.it"
 certified by "/C=IT/O=INFN/CN=INFN Certification Authority".



Sites map



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Sites monitoring



is monitoring



[Geo view](#) [Site view](#) [VO view](#) [Help](#) [About](#)

GridICE >> Site::ALL

General

Grids

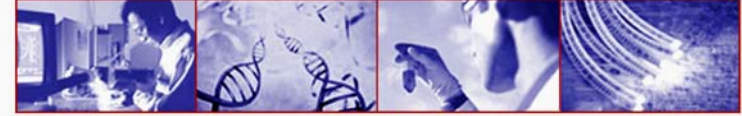
Host

Job

Charts

Site ▼	GK#	Q#	RunJob	WaitJob	Computing Resources						Storage Resources		
					SlotLoad	MH#	Power	WN#	CPU#	CPUload	Available	Total	%
BEIJING-CNIC-LCG2-IA64	1	7	9	0	28%	-	-	-	-	-	54.4 GB	62.9 GB	14%
BEIJING-LCG2	1	4	1	0	6%	-	-	-	-	-	313.5 GB	720 GB	56%
GR-01-AUTH	1	9	10	13	85%	9	52K	7	13	10%	465.2 GB	478.7 GB	3%
INFN-CATANIA	1	5	65	0	31%	96	1M	77	226	25%	2.4 TB	3.5 TB	32%
INFN-CNAF	1	33	9	1	90%	32	54K	6	11	67%	1018.1 GB	1.7 TB	1%
INFN-ROMA3	1	3	0	0	0%	6	38K	4	8	0%	955.2 GB	956.7 GB	0%
TOTAL	#6	61	94	14	40%	143	1M	94	258	33%	5.1 TB	7.3 TB	24%

Generated: Sat, 21 Jan 2006 04:42:56 +0100
GridICE Homepage



GSTAT

(<http://goc.grid.sinica.edu.tw/gstat/euchina/>)

euchina GStat: 08:50:25 03/03/06 GMT

[home](#) [alert](#) [table](#) [service](#) [regional](#) [service](#) [metrics](#) [links](#) [prod](#) [pps](#) [test](#) [baltic](#) [eela](#) [euchina](#) [eumed](#) [seegrid](#)

INFN-CNAF	OK	INFN-CATANIA	OK	INFN-ROMA3	BEIJING-LCG2	OK	BEIJING-CNIC-LCG2-IA64	OK	GR-01-AUTH	OK
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	sites	countries	totalCPU	freeCPU	runJob	waitJob	seAvail	TB	seUsed	TB	maxCPU	avgCPU
Total	6	3	408	46	194	25	5.24	2.20	420	324		

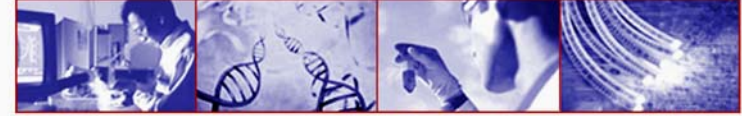
Global Grid Tests

Color Legend							
GSTAT	OK	INFO	NOTE	WARN	ERROR	CRIT	MAINT/OFF
SFT	OK	NonCrit	Crit	JobSub	JobListMatch	SchedDown	

Site List. sort by: [siteName](#) [domain](#) [maxcpu](#) [status](#)

No	Site Reports	GIIS Host	bnode	cernse	gperf	sanity	serv	version	totalCPU	freeCPU	runJob	waitJob	seAvail	TB	seUsed	TB	maxCPU	avgCPU	DI	gice	
1	BEIJING-CNIC-LCG2-IA64	ce-lcg.sdg.ac.cn	-	-	ok	ok	ok	LCG-2_6_0	32	30	2	0	0.10	0.01	32	31	OK	-			
2	BEIJING-LCG2	lcg002.ihep.ac.cn	ok	note	ok	ok	ok	LCG-2_6_0	16	4	8	1	0.28	0.41	16	15	OK	-			
3	GR-01-AUTH	node001.grid.auth.gr	-	-	ok	ok	ok	LCG-2_7_0	12	4	8	0	0.42	0.04	16	12	OK	ok			
4	INFN-CATANIA	grid012.ct.infn.it	-	-	ok	ok	ok	LCG-2_7_0	332	0	176	24	2.62	0.91	338	251	OK	ok			
5	INFN-CNAF	gridit-ce-001.cnaf.infn.it	ok	note	ok	ok	ok	LCG-2_7_0	8	0	0	0	0.86	0.81	10	8	OK	ok			
6	INFN-ROMA3	gridce.roma3.infn.it	-	-	ok	ok	-	LCG-2_7_0	8	8	0	0	0.93	0.00	8	7	-	-			
									sites	countries	totalCPU	freeCPU	runJob	waitJob	seAvail	TB	seUsed	TB	maxCPU	avgCPU	
									Total	6	3	408	46	194	25	5.24	2.20	420	324		





Events program

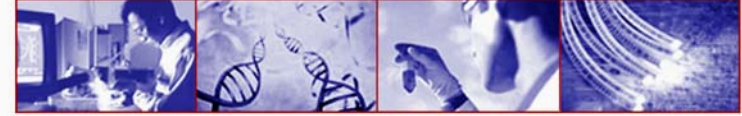
- ▶ First EUChinaGrid Tutorial, April 3°-7° 2006 Beijing
- ▶ First EUChinaGrid Workshop, June 12° - 14° Beijing
- ▶ Second EuchinaGrid Tutorial, June 15°-16° 2006 Beijing
- ▶ December 2006/January2007 Krakow /Athens (together with the VI Krakow Grid Workshop, usually each year in November/December) (tentative)
- ▶ 04-05/2007 China (tentative)



News from WP2:

Network planning and interoperability study

- ▶ Developing contacts with TEIN2 and ORIENT
- ▶ Planning test of middleware on IPv6 testbed



News from WP3: Pilot infrastructure operational support

- ▶ Located Chinese CA part of APGrid PMA
- ▶ Implementing services for the infrastructure
- ▶ Created a temporary VO euchinagrid
- ▶ Planning meeting for middleware interoperability
- ▶ Working on Acceptable Use Policy



News from WP4: Applications

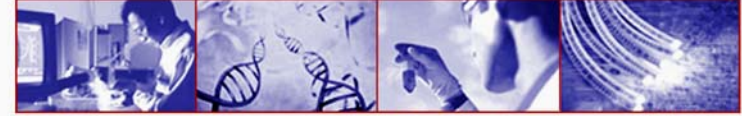
- ▶ EGEE Applications: ready to deploy and test the infrastructure
- ▶ NBP: preparing to test their application on grid infrastructure



News from WP5: Dissemination

- ▶ web site
- ▶ Preparing dissemination material
- ▶ Preparing the first tutorial

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Conclusions

- ▶ Very good progress from the start of the project
- ▶ The kernel of the pilot infrastructure is already set up and will grow rapidly.
- ▶ Pilot applications are about ready to start
- ▶ We expect new applications from dissemination activities
- ▶ More news soon