



E-science grid facility for
Europe and **L**atin **A**merica

The Workplan of the EELA-2 Project

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University of Catania and INFN (Italy)

EELA-2 Workshop

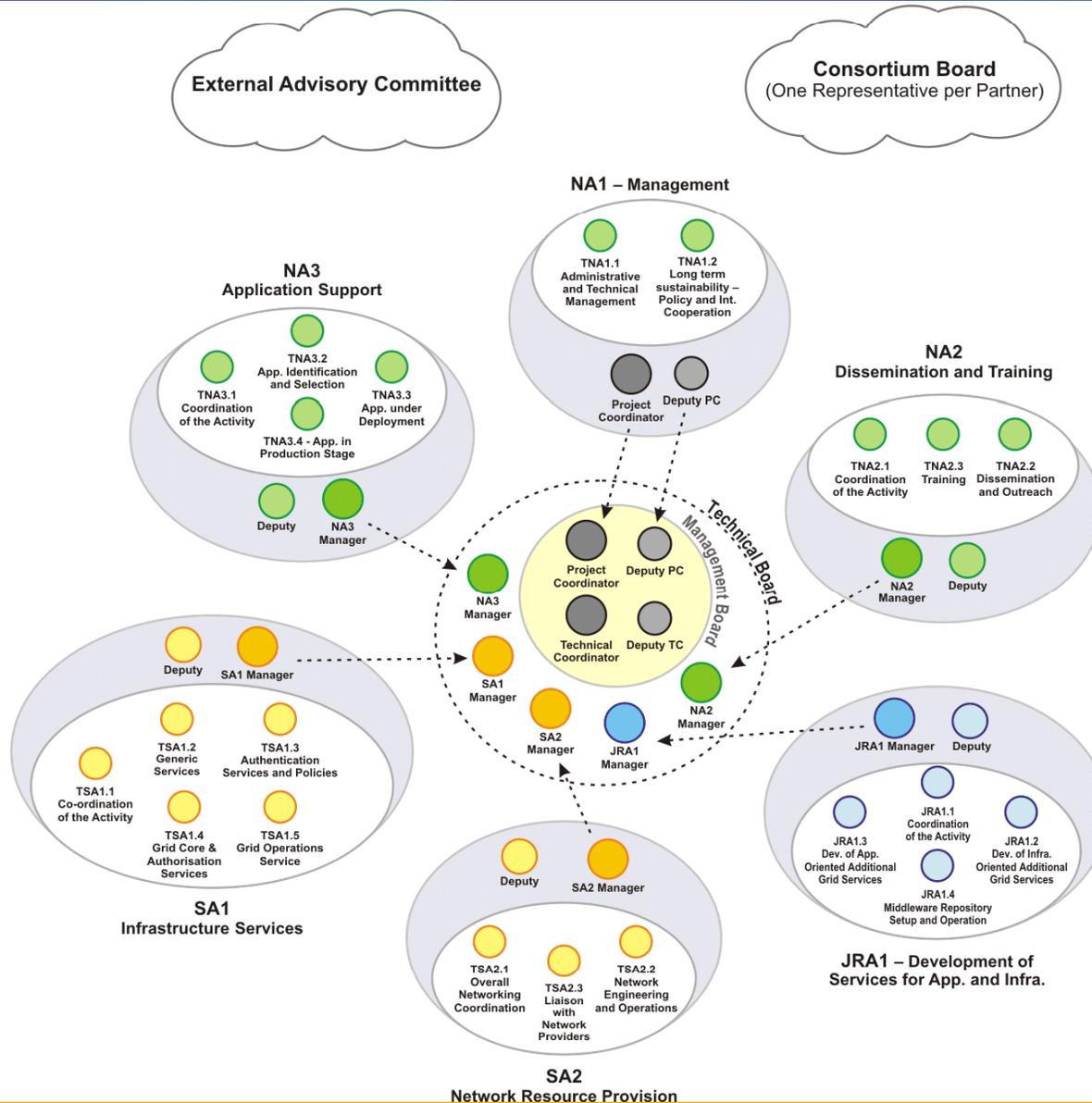
Monterrey (Mexico), 06.10.2008



- **Work Breakdown Structure:**
 - Description of Work and resources;
 - Partners' involvement;
 - Procedures and workflows;
- **Survey of results after first six months**
- **Summary and conclusions**



Management Structure





NA1 – Management of the project (general overview)

- **Leading partner: CIEMAT**
- **Total Effort: 18 PM UF + 8 PM F**
- **Objectives:**
 - Overall coordination and management of the project;
 - Long-term sustainability, policies, and international cooperation.
- **DoW:**
 - **TNA1.1: Administrative and Technical Management of the Project (CIEMAT)**
 - This task will deal with the overall coordination and management of the project.
 - **TNA1.2: Long-term Sustainability – Policy, International Cooperation (CIEMAT)**
 - This task will care about long-term sustainability of the e-Infrastructure and of the liaison with international initiatives, representing the EELA-2 views. It contributes to policy & standards definition with the objective of ensuring long-term sustainability of the e-Infrastructures.



NA1 – Management of the project (partners involved)



- **CIEMAT (8 PM)**
- **HLP (8 PM)**
- **INFN (10 PM)**



NA2 – Dissemination and Training (general overview)

- **Leading partner: ULA**
- **Total Effort: 48 PM UF + 72 PM F**
- **Objectives:**
 - Promote and spread the Project to the scientific, academic and industrial communities as well as among politicians and decision makers / coordinating the training process on the use and management of the grid infrastructure.
- **DoW:**
 - **TNA2.1: Activity coordination and management (ULA)**
 - This task will deal with the overall coordination of the Activity.
 - **TNA2.2: Dissemination and Outreach (CLARA)**
 - This task will deal with the organization of dissemination events and production of multimedia material and documentation in different languages;
 - **TNA2.3: Training (INFN)**
 - This task will deal with the organization of induction tutorials and management of a digital document repository.



NA2 – Dissemination and Training (partners involved)



- **ULA (32 PM)**
- **CIEMAT (20 PM)**
- **CUBAENERGIA (8 PM)**
- **CLARA (18 PM)**
- **HLP (2 PM)**
- **INFN (16 PM)**
- **LINTI-UNLP (8 PM)**
- **UNAM (8 PM)**
- **UFRJ (8 PM)**

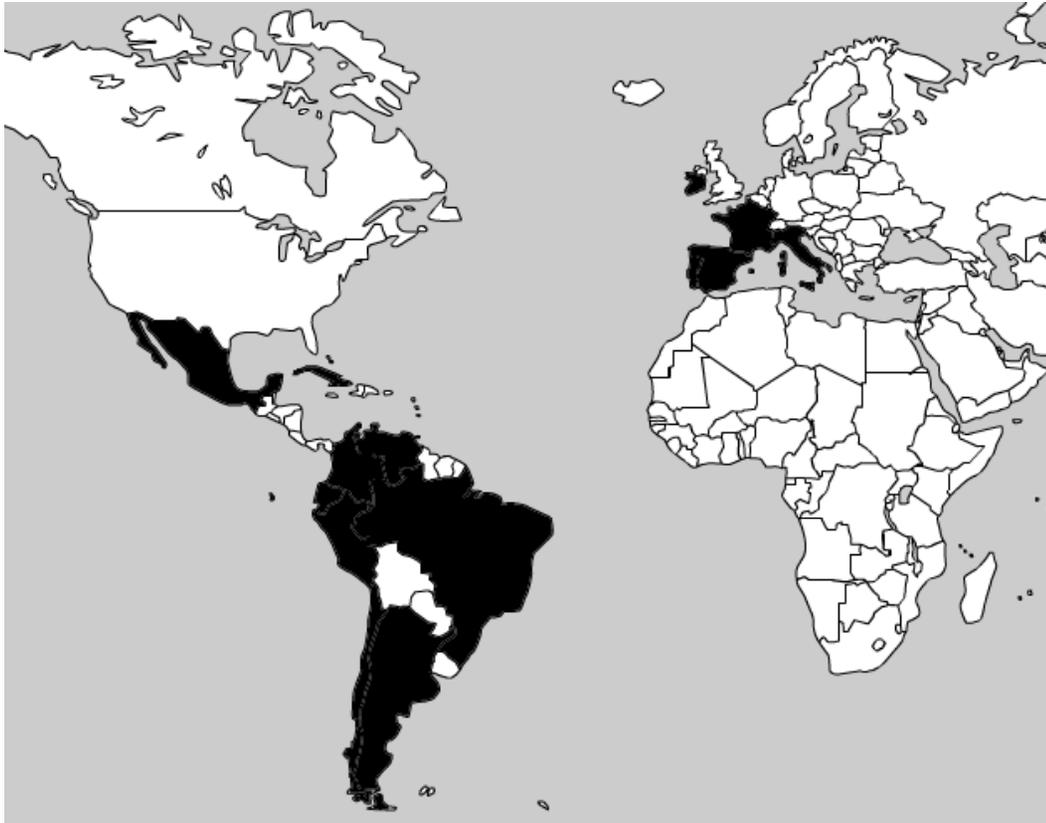


NA3 – Application Support (general overview)

- **Leading partner: INFN**
- **Total Effort: 151 PM UF + 136 PM F**
- **Objectives:**
 - To provide support to a series of relevant and strategic applications that have been and will be selected through a strict, although open, procedure from a large portfolio.
- **DoW:**
 - **TNA3.1: Coordination of the Activity (INFN)**
 - This task will deal with the overall coordination of NA3.
 - **TNA3.2: Application Identification, Selection and Gridification Support (INFN)**
 - This task will carry out the identification of the applications to be deployed on the EELA-2 Production Infrastructure and the setup of a “gridification” team able to understand the applications’ requirements and lead the porting process-
 - **TNA3.3: Applications under Deployment (CIEMAT)**
 - This task will be responsible for planning the deployment strategy and assisting the applications’ owners during testing and actual deployment of the software.
 - **TNA3.4: Applications in Production Stage (CIEMAT)**
 - This task will be responsible for assisting applications’ owners accessing output data and integrating results of different applications in the same domain.



NA3 – Application Support (partners involved)



- **INFN (25 PM)**
- **CIEMAT (64 PM)**
- **CUBAENERGIA (8 PM)**
- **UCC-CMRC (18 PM)**
- **CNRS (28 PM)**
- **LINTI-UNLP (6 PM)**
- **REUNA (10 PM)**
- **SENAMHI (4 PM)**
- **ULA (34 PM)**
- **UNIANDES (4 PM)**
- **UNAM (13 PM)**
- **UPORTO (4 PM)**
- **UFRJ (89 PM)**
- **UTPL (2 PM)**



SA1 – Grid Infrastructure Service Activity (general overview – 1/2)

- **Leading partner: UFRJ**
- **Total Effort: 303 PM UF + 414 PM F**
- **Objectives:**
 - The Service Activity 1 (SA1) will create, operate, maintain, support and manage a production quality Grid empowered infrastructure, which will make computing and storage resources from selected partners across the Latin American and European areas accessible to EELA2 e-Science communities. Moreover, this activity will consolidate the prospective work done by the previous SSA project, undertaken in both areas, also fostering the creation of basic organizational structures, protocols and procedures required for a long-term operation of a European-Latin American interoperable infrastructure.
- **DoW:**
 - **TSA1.1 – Coordination of the activity (UFRJ)**
 - take care of all aspects related to the administration of SA1, including all necessary effort related to the inter-task co-ordination and the liaison with the entire project;



SA1 – Grid Infrastructure Service Activity (general overview – 2/2)

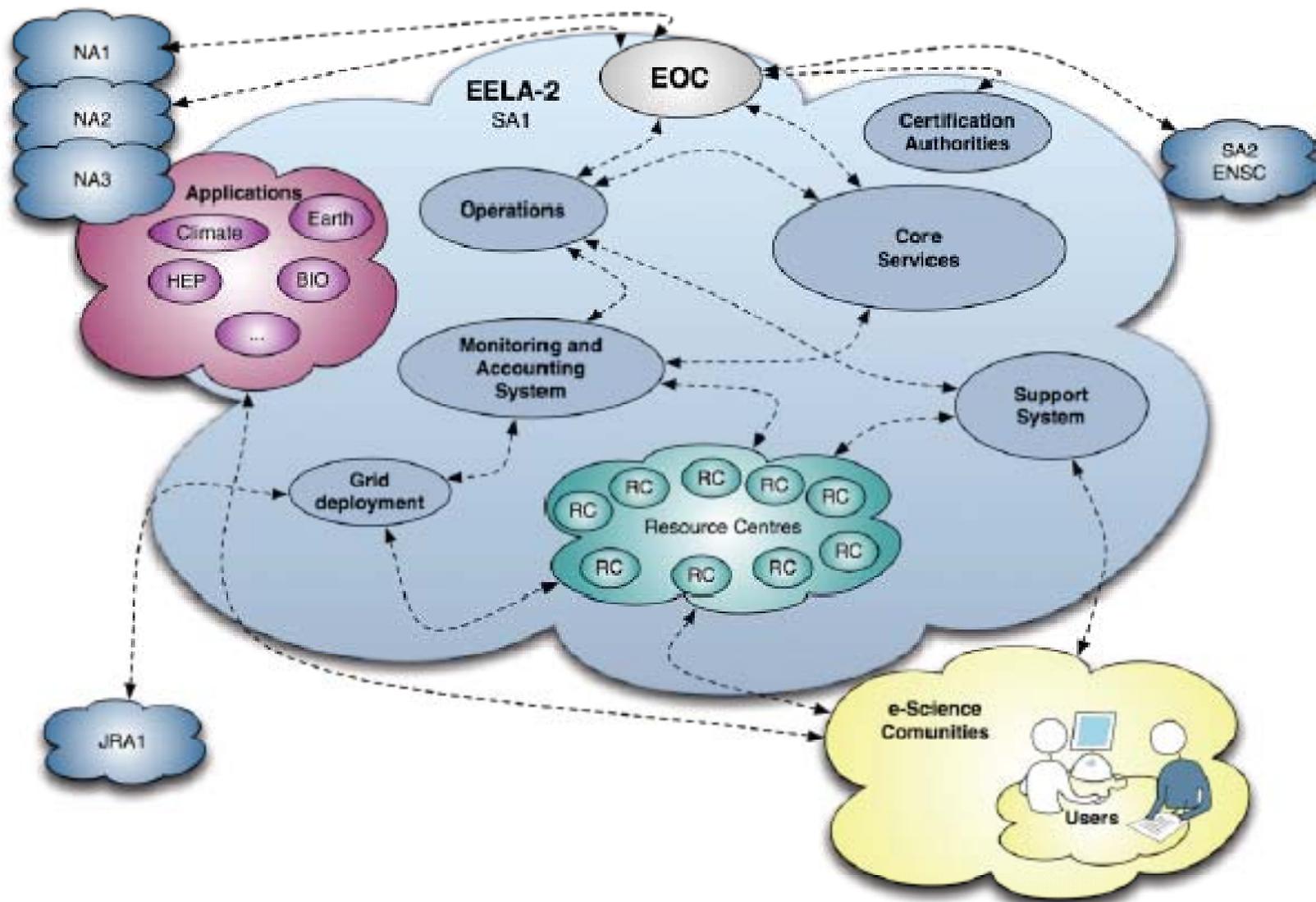
- **DoW:**
 - **TSA1.2 – Generic services (CEFET-RJ)**
 - provide support, i.e. not directly related to the grid itself, services to the other activity tasks, helping ensure proper coordination and management between the different tasks;
 - **TSA1.3 – Authentication services and policies (UFF)**
 - take care of all aspects related to the management of Security related services within SA1. This includes the management of the Latin America Public Key Infrastructure (LA-PKI) deployed by EELA, and of security related issues;
 - **TSA1.4 – Core and authorization services (CIEMAT)**
 - take care of all aspects of the production services that are not directly deployed on partners that commit resources to the project. These include the operation and support of the core grid services necessary for the proper functioning of the e-Infrastructure, of the VO specific services and the accounting and monitoring subsystems, both from managerial and operational points of view;
 - **TSA1.5 – Grid operations (UFCG)**
 - take care of the monitoring and administration support of computing and storage resources deployed locally on partners that commit resources to the project, in order to minimise downtime and maximise availability of resources to end users.



SA1 – Grid Infrastructure Service Activity (partners involved)

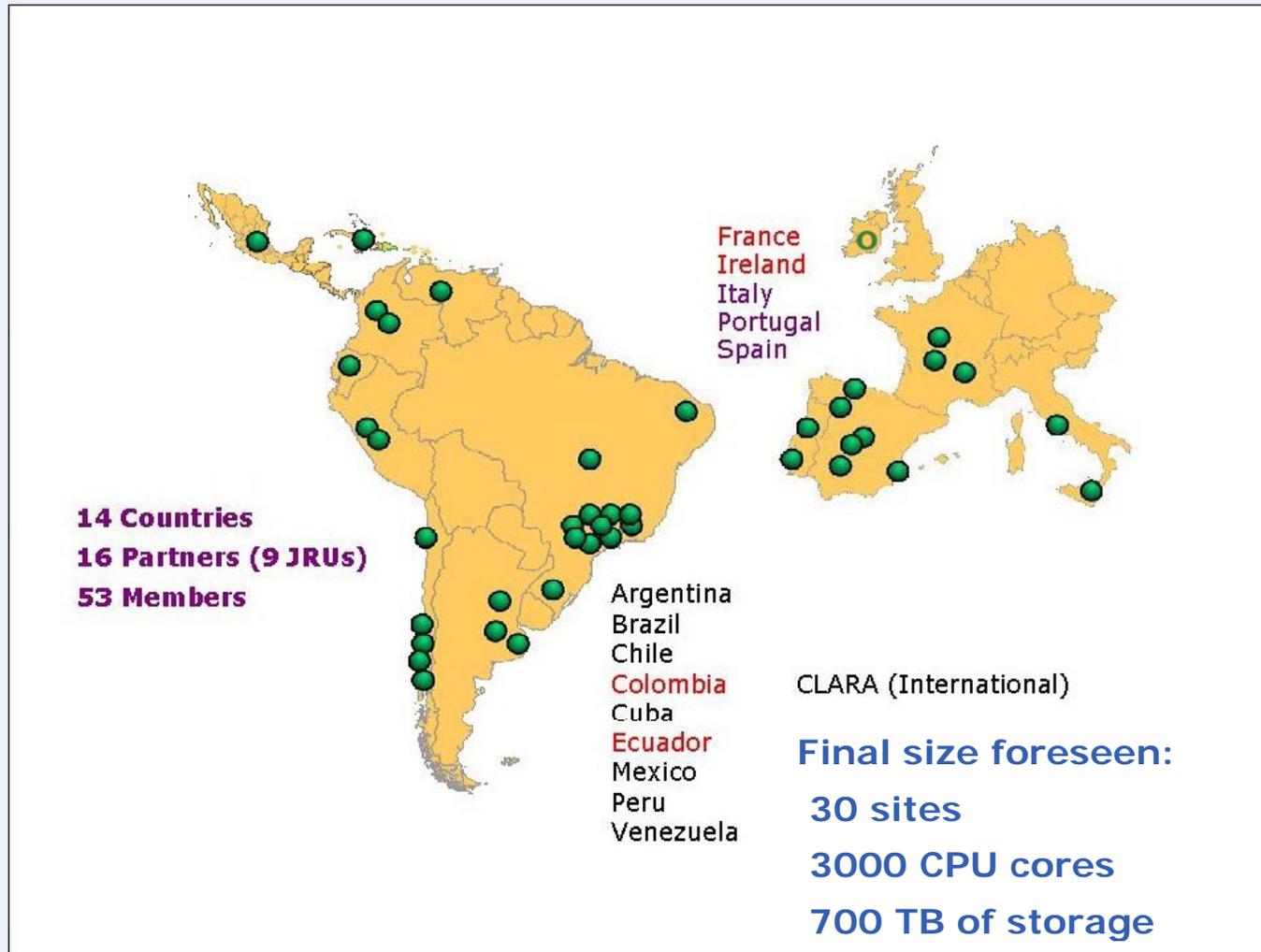


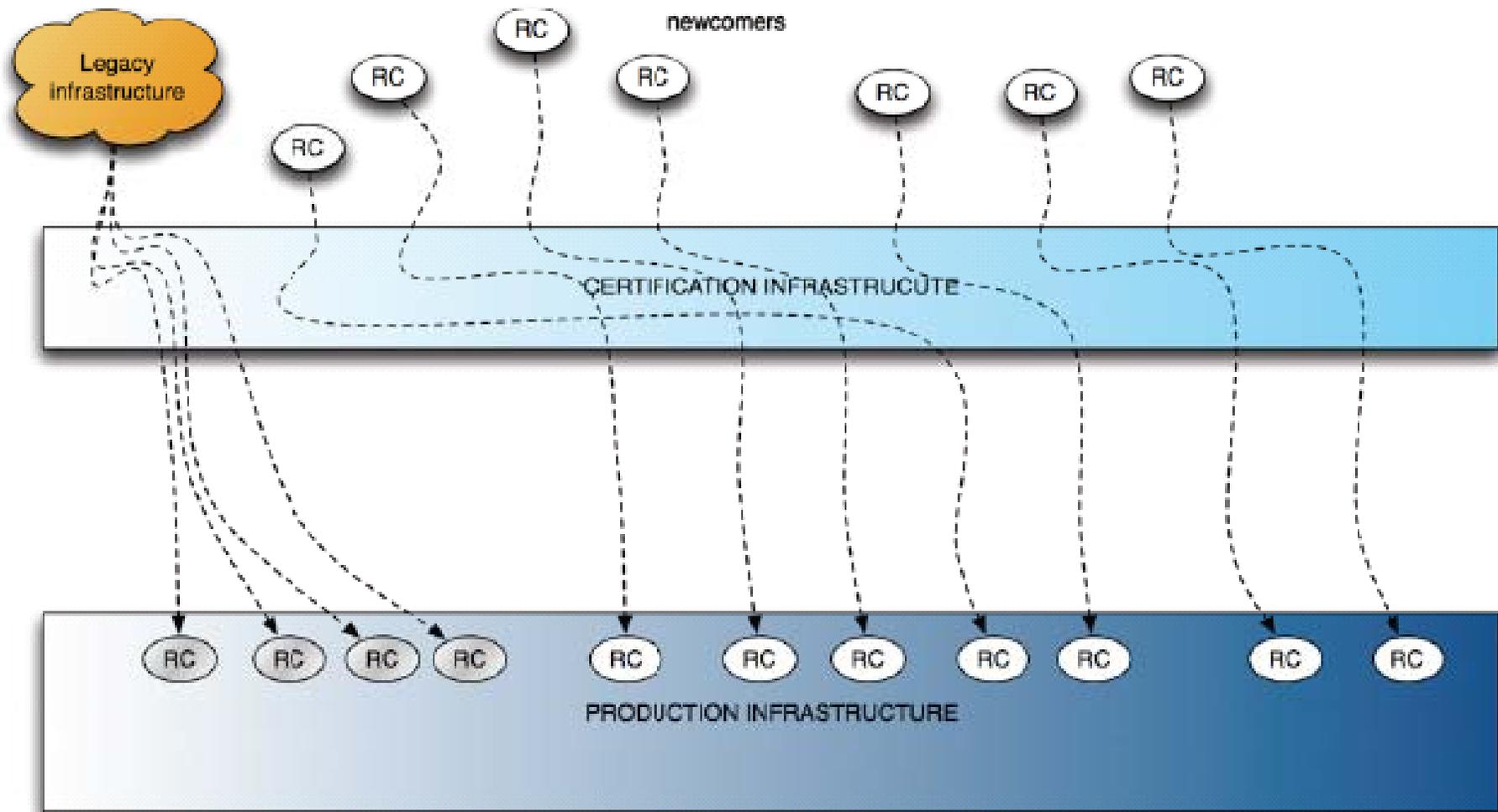
- **UFRJ (344 PM)**
- **CIEMAT (114 PM)**
- **CNRS (18 PM)**
- **INFN (12 PM)**
- **LINTI-UNLP (18 PM)**
- **REUNA (38 PM)**
- **SENAMHI (18 PM)**
- **ULA (66 PM)**
- **UNIANDES (54 PM)**
- **UNAM (12 PM)**
- **UPORTO (13 PM)**
- **UTPL (12 PM)**





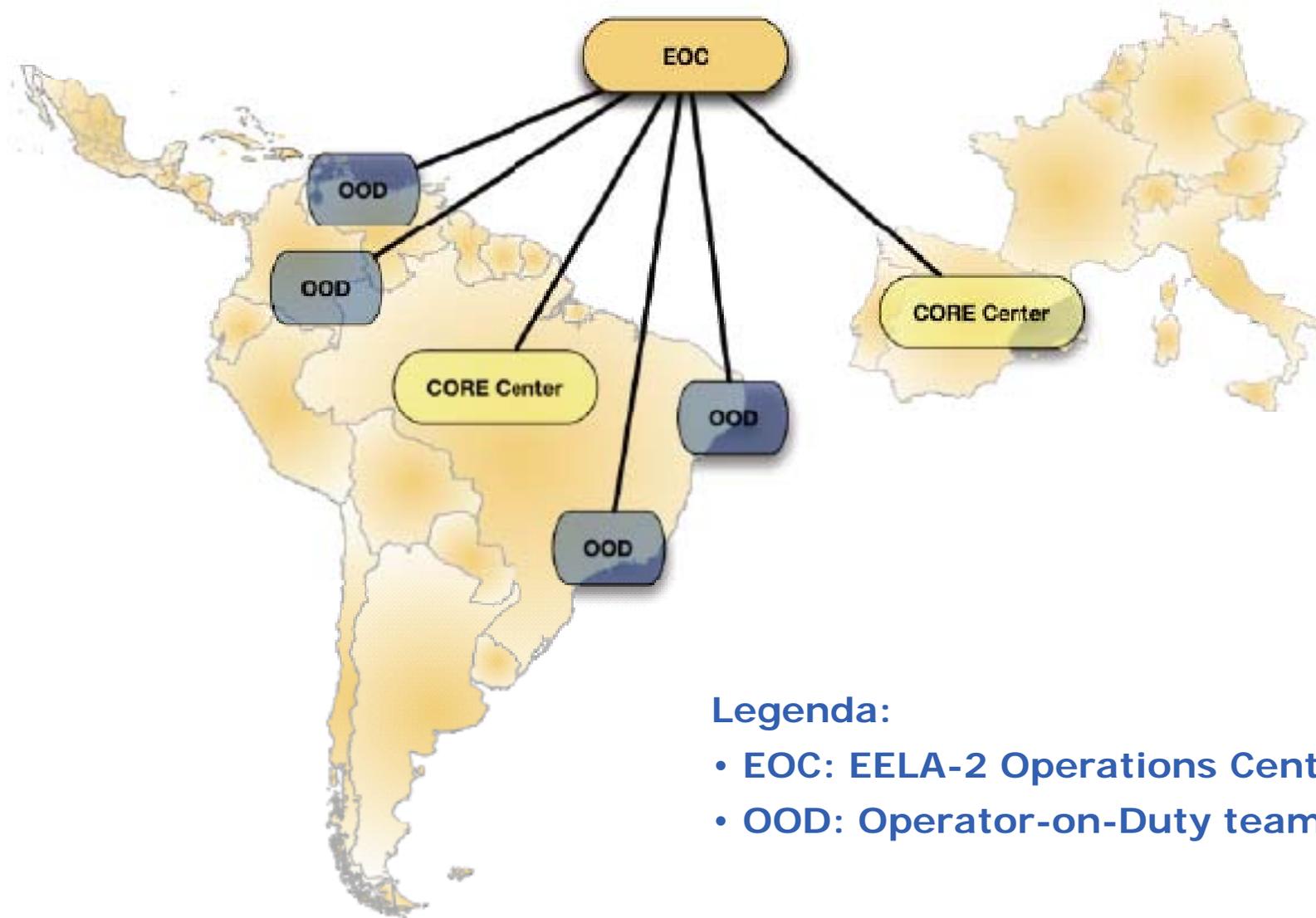
EELA-2 “targeted” e-Infrastructure (taken from the DoW)







EELA-2 Infrastructure Architecture



Legenda:

- EOC: EELA-2 Operations Centre
- OOD: Operator-on-Duty team



SA2 – Network Resource Provision (general overview)

- **Leading partner: CLARA**
- **Total Effort: 12 PM UF + 24 PM F**
- **Objectives:**
 - EELA-2 will use the European and Latin American research networks to connect the providers of computing, storage, instrumentation and applications resources with users in Virtual Organisations.
 - In EELA-2, the objective of the Networking Support Activity is to have a central role in:
 - Network related activities;
 - Network engineering and operations support integrated with the EOC;
 - Management of the relationships between EELA-2, CLARA, GÉANT and NRENs in Latin America and Europe;
 - Strengthening of the link between the “Grid” and the “network/NREN” communities;
 - Automation (to the extent possible) of the processes for network service provisioning to EELA-2.
 - **DoW:**
 - The activity will provide network support by coordinating the networking related tasks inside EELA-2, implementing the network engineering and operations centre, developing inter-operation agreements consolidating the relationship with GÉANT2, RedCLARA and the NRENs in Europe and Latin America, engaging with projects likely to share resources. SA2 is organized in three tasks:
 - *TSA2.1 – Overall networking coordination (CLARA)*
 - *TSA2.2 – Network Engineering and Operations (CLARA)*
 - *TSA2.3 – Liaison with Network Providers (CLARA)*



SA2 – Network Resource Provision (partners involved)



- **CLARA (24 PM)**
- **UFRJ (12 PM)**



JRA1 – Development of Services for Applications and Infrastructure

(general overview – 1/2)

- **Leading partner: UFRJ**
- **Total Effort: 60 PM UF + 120 PM F**
- **Objectives:**
 - Increase the *reach* and the *usability* of e-Infrastructures like the ones that will be provided by the EELA-2 and EGEE-III projects
 - Cope with the requirements on versatility of the production service managed by SA1 and on functionalities of the NA3 applications running on it
 - Promote a continued and increased interaction between research groups in Europe and Latin-America.
- **DoW:**
 - TJRA1.1 – Coordination of the Activity (UFCG)
 - The aim of this task is to deal with issues related to JRA1 coordination and management. These include tracking the progress of the various activities, organizing technical meetings (either virtual or face-to-face ones, the latter often taking advantage of the project's programmed training and dissemination activities), anticipating difficulties, devising contingency plans when necessary, identifying opportunities, etc. The execution of the task also encompasses administrative duties such as the preparation of deliverables and reports, as well as budget management. The activity manager will be responsible for the execution of this task.



JRA1 – Development of Services for Applications and Infrastructure

(general overview – 2/2)

- **DoW:**

- TJRA1.2 – Development of Infrastructure-oriented Additional Grid Services (UFCG)
 - The goal of this task is to provide alternatives to facilitate the installation, management and use of the e-Infrastructure. To this end we will build on simpler peer-to-peer grid middleware, allow the interoperability of gLite-based sites with sites running other grid middleware, and give support to the execution of grid middleware on top of Microsoft Windows platforms. We will develop infrastructure-specific services for:
 - Simplifying the access to the infrastructure for new users and applications;
 - Porting the gLite User Interface and Computing Element to the Microsoft Windows platform;
 - Interoperate gLite with a peer-to-peer grid middleware;
 - Develop application and VO compliant execution environments through virtualization.
- TJRA1.3 – Development of Application-oriented Additional Grid Services (INFN)
 - The goal of this task is to develop the application-oriented grid services necessary to fulfill the requirements of the applications selected by NA3 and to solve most of the problems reported by EELA users and site administrators related to application deployment and use. It will develop advanced application-oriented grid services for:
 - The easy building of digital archives and data grid frameworks;
 - Storing data in a secure way, solving the insider abuse problem;
 - Promoting the collaboration of community of users through the support of cooperative workflow applications and tagging systems;
 - Cope with any additional requirement that may arise during the gridification of the applications selected by NA3
- TJRA 1.4 - Middleware Repository Setup and Operation (INFN)
 - The aim of this task is to develop the contents, for the whole duration of the project, for the SourceForge-like repository that will be set-up and maintained by SA1 and that will host all the software developments and documentation that will be produced by the other tasks of JRA1. The repository will be customized and the software components will be packaged in such a way to make the transfer to and the integration into the repository managed by SA1 as easy as possible.



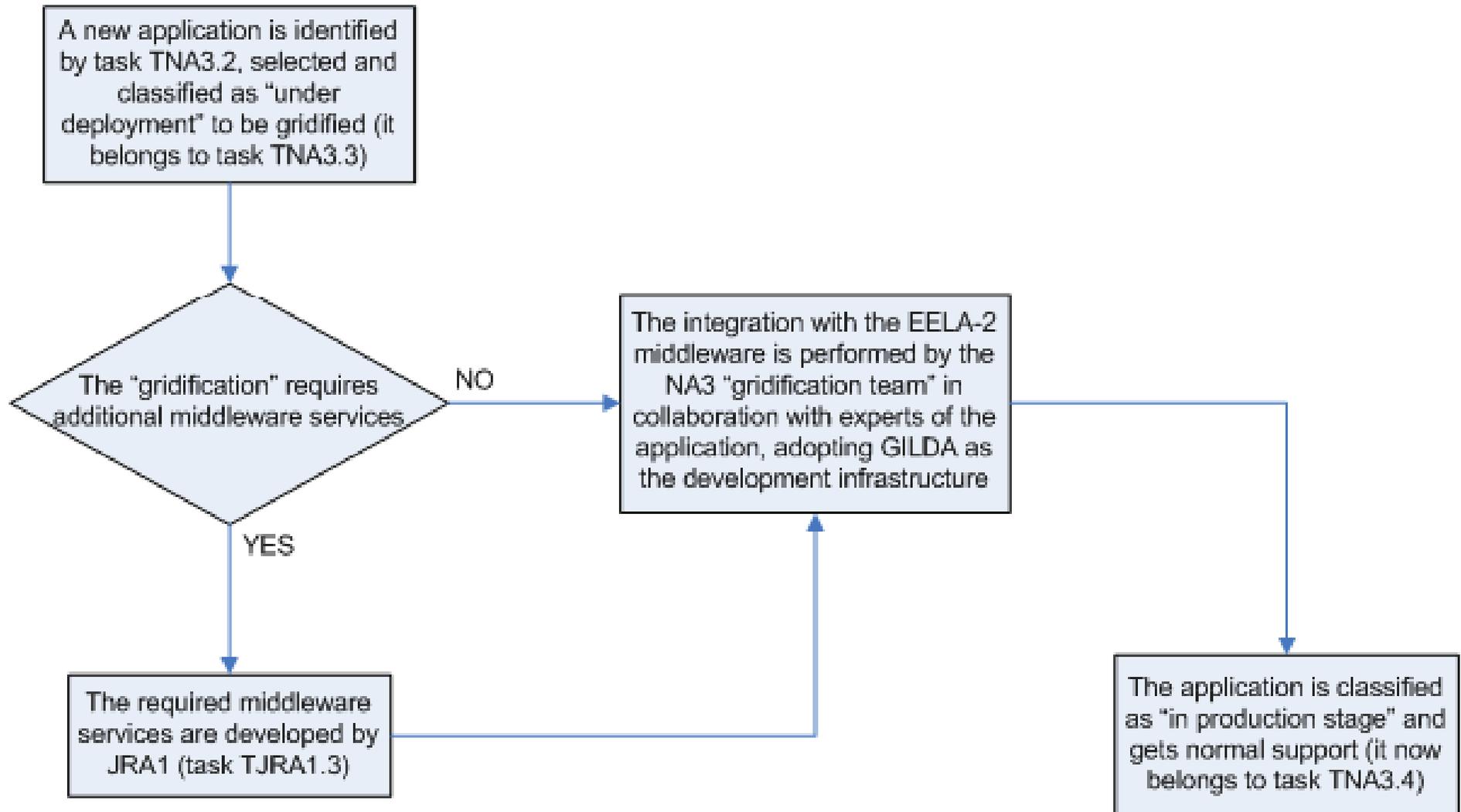
JRA1 – Development of Services for Applications and Infrastructure (partners involved)



- **UFRJ (120 PM)**
- **CIEMAT (30 PM)**
- **INFN (30 PM)**



“Applications-driven” development of new middleware services





What has been done so far...



Project web site (www.eu-eela.eu)

The screenshot shows a Mozilla Firefox browser window displaying the EELA-2 project website. The browser's address bar shows the URL <http://www.eu-eela.eu/>. The website header features the EELA logo and the text "E-science grid facility for Europe and Latin America". A navigation menu includes links for Home, Wiki, Applications, Blog, Photos, Search, Site Map, and Contact Us. A sidebar on the left lists various sections: ABOUT EELA-2, PROJECT ACTIVITIES, HOW TO COLLABORATE, EVENTS, DOCUMENTS, OUTREACH, JOB OPPORTUNITIES, and EELA FIRST PHASE WEBSITE. The main content area is titled "Welcome to the EELA-2 Project" and features a "Hot news here !" section. Below this, a paragraph describes the project's goals, followed by a bulleted list of key objectives.

Welcome to the EELA-2 Project

Hot news here !

EELA-2 aims at building a high capacity, production-quality, scalable Grid Facility, providing round-the-clock, worldwide access to distributed computing, storage and network resources needed by the wide spectrum of Applications from European - Latin American Scientific Collaborations, with special focus on:

- Offering a complete set of versatile services fulfilling Applications requirements;
- Ensuring the long-term sustainability of the e-Infrastructure beyond the term of the project.

Such an ambitious project would not be possible without the prior existence of a consolidated e-Infrastructure, set up with the early intention to build a sustainable Grid platform. This was the objective of the EELA Project (www.eu-eela.org/first-phase.php) that provided its users with a stable, well supported Grid Infrastructure based on 16 Resource Centres (RCs) summing up to over 730 CPU cores and 60 Terabytes of storage space, thus proving that the deployment of an European-Latin American e-Infrastructure was not only viable but is also



How to collaborate with EELA-2 ?

EELA-2 - How to Collaborate - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.eu-eela.eu/index.php?option=com_content&task=vi

WebMail WebCalendar FastWeb FastWeb NA AP 3COM trip Missioni Offerte Ordini GILDA GILDA Monitors Progetti Dizionari

 E-science grid facility for Europe and Latin America

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ABOUT EELA-2
PROJECT ACTIVITIES
HOW TO COLLABORATE
EVENTS
DOCUMENTS
OUTREACH
JOB OPPORTUNITIES
EELA FIRST PHASE WEBSITE

How to Collaborate

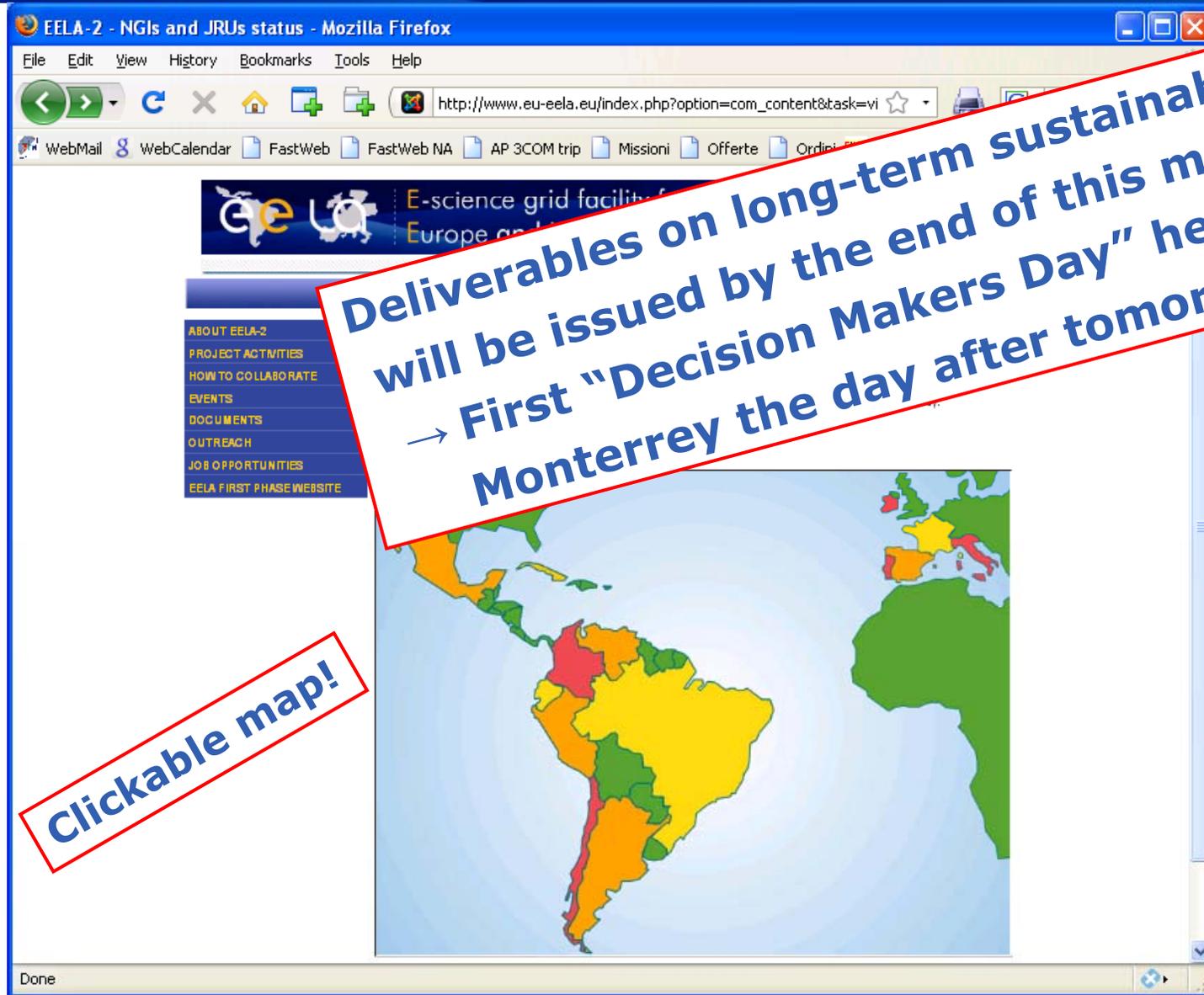
The EELA-2 project is open to any organisation willing to collaborate. By becoming a project associate, your research group will be allowed to use the EELA-2 production quality Grid Infrastructure to run applications and share scientific results. Moreover, your organisation will be entitled to receive all sort of technical support in order to either integrate your computing resources into the EELA-2 Grid or to have your application(s) deployed and running on it.

Whatever your intention is, you should firstly answer the survey available at: <http://applications.eu-eela.eu/survey/>. After that, you will be contacted by one of the members of the EELA-2 [Technical Board](#), who will provide you with further information.

If your organisation does not belong to any of the [EELA-2 partner institutions](#), a Memorandum of Understanding (MoU) defining the terms of the collaboration must be established between EELA-2 and your institute/project. You can download the EELA-2 MoU template from [here](#).

Should you have any further questions, do not hesitate to contact tb@eu-eela.eu

Edited by Roberto Barbera and Leandro Ciuffo. 08/07/2008



Deliverables on long-term sustainability will be issued by the end of this month!
→ **First "Decision Makers Day" here in Monterrey the day after tomorrow**

Clickable map!



Agenda (indico.eu-eela.eu)

Indico [Home] - Mozilla Firefox

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Home

*Meetings
Events
Conferences* TOOL

Categories :

- EC Meetings (0)
- EELA Conferences and Workshops (7)
- EELA Partner Representative Meetings (0)
- Non EELA Events (0)
- Consortium Board (0)
- Management Board (10)
- Technical Board (7)
- Tutorials and Schools (4)
- NA1 (0)
- NA2 (0)
- NA3 (0)
- SA1 (1)
- SA2 (0)
- JRA1 (0)

Tools

- Browse Categories
- Events Overview
- Calendar
- Site Map
- Statistics
- Help

Done



EELA Documents: Home - Mozilla Firefox

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Narrow by collection:

- [Project Milestones](#) (0)
[NA1 Milestones](#) (1) [NA2 Milestones](#) (1) [NA3 Milestones](#) (0) [SA1 Milestones](#) (0) [SA2 Milestones](#) (0) [JRA1 Milestones](#) (0)
- [Trip Reports](#) (6)
- [Project Papers](#) (4)
[Project Proceedings](#) (1) [Project Pre/Re-prints](#) (3)
- [Project Deliverables](#) (9)
[JRA1 Deliverables](#) (0) [SA2 Deliverables](#) (1) [SA1 Deliverables](#) (2) [NA3 Deliverables](#) (1) [NA2 Deliverables](#) (1) [NA1 Deliverables](#) (4)
- [Multimedia Material](#) (0)
[Project Videos](#) (0) [Project Records](#) (0)
- [Project Presentations](#) (7)
[Non-EELA-2](#) (3) [JRA1 Presentations](#) (2) [SA2 Presentations](#) (0) [SA1 Presentations](#) (0) [NA3 Presentations](#) (2) [NA2 Presentations](#) (0) [NA1 Presentations](#) (0) [EELA-2](#) (0)
- [Project Training Material](#) (31)
[Guides for Users](#) (3) [Videos of Tutorials](#) (0) [Training Exercises](#) (0) [Administrative Tutorials](#) (0) [Workload Management System-Advanced](#) (3) [Workload](#)

Done



Wiki site(s) (wiki.eu-eela.eu)

WebHome < EELA2 < Grid CT Wiki - Mozilla Firefox

http://grid.ct.infn.it/wiki/bin/view/EELA2/WebHome

GRID CT

You are here: Grid CT Wiki > EELA2 Web > WebHome

Welcome to the EELA-2 Wiki

Available Information

- Dissemination and Training (NA2)
 - Training material on quite Grid Middleware
- Application Support (NA3)
 - How to access GILDA
 - How to access EELA
 - How to propose new applications
 - Getting technical support
 - Monthly Reports
- Development of Services for Applications and Infrastructure (JRA1)

EELA2 Web Utilities

Grid CT Wiki < EELA2 < Grid CT Wiki - Mozilla Firefox

http://grid.ct.infn.it/wiki/bin/view/EELA2/NA2Activity

Dissemination and Training (NA2)

- Description
- GILDA training
 - Tutorial for Users
 - Technical requirements
 - User requirements
- Tutorial for site administrators
 - Technical requirements
 - User requirements
- Grid Services
 - Technical requirements
 - User requirements
- Customer support
 - Technical requirements
 - User requirements
- How to request a tutorial
- Training materials and other resources
- The next training team

Description

NA3Activity < EELA2 < Grid CT Wiki - Mozilla Firefox

http://grid.ct.infn.it/wiki/bin/view/EELA2/NA3Activity

Application Support (NA3)

- How to access GILDA
- How to access EELA
- How to propose new applications
- Getting technical support
- Monthly Reports

Useful References

- For beginners
 - For beginners
 - For intermediate users and application developers
 - NA3 pages on the Web

Useful References

- Grid Café - The place for everybody to learn about the Grid
- What is the Grid?
- ISGTW - What is a grid? A crash course in grid computing
- ISGTW - Choose and start to use your grid
- Grid Glossary
- A Brief Guide to Certificate Management
- How To Convert pkcs12 To pem

JRA1 Services < EELA2 < Grid CT Wiki - Mozilla Firefox

http://grid.ct.infn.it/wiki/bin/view/EELA2/JRA1Services

Development of Services for Applications and Infrastructure (JRA1)

Description

One of the major objectives of EELA-2 is to offer its customers the complete functionality they need to run their applications in their own scientific environment. The ultimate goal is to expose of a comprehensive ensemble of services that will decisively contribute to a durable, versatile and cost-effective use of the e-infrastructure.

From the perspective of JRA1, research and development will be conducted with the goal of increasing the reach and the usability of e-infrastructure by assembling existing technologies and developing new ones that will facilitate the installation, management and use of the grid infrastructure. Special attention will be given to the services related with the sustainable use, management and growth of the e-infrastructure and its users' community.

By increased reach, we mean more sites belonging to the grid infrastructure, with more resources being shared, more users being served and a more diverse range of applications being supported. By increased usability we mean the addition of services that can ease the task of developing and deploying new applications, as well as installing, managing and deploying the core infrastructure. Obviously, increased usability will allow more applications to be supported and will attract more users. These, in turn, will contribute to increase the number of resources available and the number of institutions



Dissemination Material

Framework Programme 7 (2007-2013) Research Infrastructures projects

EELA-2

Synopsis: The EELA-2 Project (e-science grid facility for Europe and Latin America) is a follow-up to the EELA-1 project, a high capacity Grid Facility providing round-the-clock, worldwide access to distributed computing resources for a wide spectrum of applications from scientific communities. The Project will aggregate 16 institutions from 14 countries in Europe and Latin America.

Objectives: EELA-2 will especially focus on two goals: (i) to provide services fulfilling application requirements and sustainability of the e-infrastructure beyond the term of the project; (ii) to expand the current EELA-1 e-infrastructure to include new countries and to further grow by 20% in computing resources.

Activities: The objectives aforementioned will be pursued through the following activities:

- Expanding the current EELA-1 e-infrastructure to include new countries and to further grow by 20% in computing resources;
- Providing, in collaboration with related projects, services needed by all types of applications;
- Supporting applications:
 - Selected against well defined criteria for Grid deployment, especially of various types e.g. from data acquisition of scientific experiments, High Energy Physics, etc.
- Attracting new applications with the support of the EELA-1 project;
- Collaborating with BOA, ALCA and other related projects;
- Supporting the ongoing creation of e-infrastructure in Latin America;
 - To provide a complete service to the Latin American community;
 - To paving the way to the creation of a sustainable e-infrastructure in Latin America;
- Making available knowledge of the project and decision makers through the creation of knowledge repositories;

Networking activities: There are the EELA-2 Dissemination and Training Activities. Each Activity is broken down into a series of tasks with a "deadline" in order to provide a clear timeline of today's e-infrastructure. The project also organizes meetings, workshops and other multi-disciplinary events.

Service activities: The Service of the e-infrastructure and the sustainable Grid e-infrastructure in Europe and Latin America. The EELA-2 Network Resource Provision.

EELA-2
www.eu-eela.eu

European Commission Project - Research Infrastructures
INFRA-2007-1.2.3: e-Science Grid Infrastructures
Grant agreement N°: 223797 - FP7 funding: 2093 KE - Co-financing of partners of 2.44.M
Start date: 1 April 2008 - End date: 31 March 2010

The EELA-2 project aims at building a high capacity, production-quality, scalable Grid Facility providing worldwide access to distributed computing, storage and network resources needed by research and Latin American scientific collaborations.

The provided e-Infrastructure will allow many researchers to tackle important scientific and technical challenges that could have been impossible to solve before due to a lack of adequate resources. Increasing significantly the cooperation among its partners and with other countries.

Consortium
There are 14 countries participating in EELA-2, 5 from Europe and 9 from Latin America, with more than 50 institutions.

Applications
47 applications from 10 different scientific domains are currently being supported by the project. For further information, please visit: <http://applications.eu-eela.eu>.

How to participate
The EELA-2 project is open to any organization willing to collaborate. By becoming a project associate, your research group will be allowed to use the EELA-2 Grid to run applications and share scientific results. Moreover, your organization will be entitled to receive all kind of technical support in order to either integrate your computing resources into the EELA-2 Grid or to have your application(s) deployed and running on it.

If you have any question, please don't hesitate to contact us at it@eu-eela.eu

Stay tuned to the next training and dissemination events!
Several events are organized during the project timeframe, such as Tutorials (both for users and system administrators), Grid Schools, Workshops and Conferences. Information about past and future events is available at <http://indico.eu-eela.eu>.

EELA-2 at EGEE08
In order to get in touch with the EELA-2 project, we welcome you to participate in the session "Concertation on Policies and Sustainability" that will take place on Tuesday (September 23rd) at 14:00.

The EELA-2 project is funded by the 7th Framework Programme - CopoCAs of the European Commission.

EELA NEWS
www.eu-eela.eu

Editorial
EELA was born, lived and... became EELA-2
Bernard Invernizzi
April 20th - 23rd, Spain
EELA-2 was kicked off in Trujillo

From June 30 to July 4th
Joint EELA-2/EGEE-III tutorial for trainers

Events
EELA-2 left its trace
Reflections after the island sessions
Results of the Technical Board face-to-face
Meeting held in Hacuruçá

In Brazil
EELA-2 was awarded as a successful project in terms of cooperation with the European Union

The EELA-2 Applications Website is running

GRID EVENTS AGENDA

Bulletin N°9 - Year 3, June 2008

Contents by:
Marta Paz Mitrošević Albarracín
Marta José Lopes Parralilly
Graphic Design:
Marcelo González Garlitas



Dissemination Events

(<http://indico.eu-eela.eu/categoryDisplay.py?categId=15>)

- **EELA-2 Kick-off Meeting**
 - Trujillo (Spain),
- **EELA-2 Meetings in Chile**
 - Santiago & Valparaiso, September, 8-10, 2008
- **EELA-2 Workshop in Ireland**
 - Dublin, September, 19, 2008
- **Concertation Workshop at EGEE'08 (jointly organized with BELIEF-II)**
 - Istanbul, September, 23, 2008
- **EELA-2 Workshop in Mexico**
 - Monterrey, October, 6, 2008
- **EELA-2 Decision Makers Day in Mexico**
 - Monterrey (Mexico), October, 8, 2008
- **EELA-2 in the Grid Island at ICT 2008**
 - Lyon, November, 25-27, 2008
- **EELA-2 Workshop in Ecuador**
 - Guayaquil/Quito, December 2008

- **EELA-2 Conference**
 - **Bogota (Colombia), February, 25-27, 2009**
 - **<http://indico.eu-eela.eu/conferenceDisplay.py?confId=132>**
 - **Dead line for paper submission: November, 1, 2008**



Training Events

(<http://indico.eu-eela.eu/categoryDisplay.py?categId=21>)

Joint EELA-2/EGEE-III Tutorial for Trainers (30 June 2008 - 04 July 2008) - Mozilla Firefox

http://indico.eu-eela.eu/conferenceDisplay.py?confId=125

Joint EELA-2/EGEE-III Tutorial for Trainers

from 30 June 2008 to 04 July 2008 INFN - Dept. of Physics and Astronomy

Home

- Overview
- Timetable
- Registration
 - Registration Form
 - List of registrants
- support

Prepare people to assume training roles and date participants with the new services

Dates: from 30 June 2008 09:00 to 04 July 2008 18:00

Location: INFN - Dept. of Physics and Astronomy, Via S. Sofia, 64, 95123 Catania

Material:

- Feedback Form
- Photo Gallery
- Presentation Template
- Tutors Directory
- Tutors Directory 2nd Link

Additional info:

EELA-2 is organizing the 1st Joint EELA-2/EGEE-III Tutorial for Trainers. It is a special and important event for the dissemination and training in the field of Grid computing. A selection process may be performed. There is a limit of two (2) participants per candidate proposals in their own institutions. Useful information has been provided in the registration form.

EELA-2 Tutorial in Dublin, Ireland (15-18 September 2008) - Mozilla Firefox

http://indico.eu-eela.eu/conferenceDisplay.py?confId=153

EELA-2 Tutorial in Dublin, Ireland

15-18 September 2008 Trinity College Dublin

Home

- Overview
- Timetable
- Registration
 - Registration Form
- support

Welcome to the **EELA-2 Tutorial in Dublin, Ireland**. EELA-2 is the 2008 thanks to the co-fundings of the European Commission to instantiate a scientific collaboration between Europe and Latin America. EELA-2 will continue this effort trying to attract more participants.

Event Scope / Purpose
The aim of this tutorial is to explain about grid capabilities in two phases of two days each; The first two days will be dedicated to the topics of glite Grid services installed in GILDA t-Infrastructure, a Grid infrastructure dedicated to the Grid. During the duration of the tutorial a particular emphasis will be put on the application on the Grid.

Dead Line(s) for registration
10 - Sep - 2008

Registration fees
Registration for this event is free of charge.

ATTENTION Amounts and dates are still not decided by the Selection Board.

EELA-2 Support Request (ONLY FOR EELA-2 MEMBERS)
If you need some support for travel or lodging or both, please fill out the **EELA-2 Support Form** only after your application has been accepted.

NOTICE:
- Only one (1) **electronic reimbursement request** should be submitted per team.
- The **Maximum number of EELA-2 supported people** allowed per team is **two (2)**.

Support Modality (several options follow):
- Lodging and other expenses:

FIRST EELA-2 GRID SCHOOL (02-15 November 2008) - Mozilla Firefox

http://indico.eu-eela.eu/conferenceDisplay.py?confId=159

FIRST EELA-2 GRID SCHOOL

2-15 November 2008 Itacuruçá - Brazil

Home

- Overview
- Agenda
- Application form
- Committees
- Previous Schools
- support

The First EELA-2 Grid School (E2GRIS-1) aims to create the necessary environment in Latin America for the porting of new applications to the EELA-2 Grid Infrastructure. To fulfill this goal, the E2GRIS-1 programme, based both on lectures and hands-on practices, will cover in-depth the main topics of Grid technology as well as the EELA-2 middleware technicalities.

Important dead-lines

- Application submission: **30 - September - 2008**
- Notification of acceptance: **10 - October - 2008**

All application candidatures must be submitted to the Selection Board of the School by a team of at most two persons. Each application team should fill the application form describing the application they want to port on the EELA-2 e-Infrastructure. The Selection Board will rank both, applications and persons, for the final approval to be made by the EELA-2 Technical Board. At most one application per team will be selected. Accepted candidates will be notified and invited to fill the registration form to participate to the school that will be available on this page after the selection/notification process.

Registration fees
Registration for this event is free of charge.

Support

- EELA-2 accepted candidates will be financed by the project and have to commit to their participation in the whole event
- Non EELA-2 partners have to cover their expenses

EELA-2 Support Request (ONLY FOR EELA-2 MEMBERS AFTER ACCEPTANCE)
If you need some support for travel or lodging or both, please fill out the **EELA-2 Support Form** only after your application has been accepted.

NOTICE:



Training Material Repository (inside the NA2 wiki site)

The screenshot shows a Mozilla Firefox browser window with the address bar displaying `http://grid.ct.infn.it/twiki/bin/view/EELA2/TrainingOnGLite`. The page title is "TrainingOnGLite < EELA2 < Grid CT WIKI". The browser's menu bar includes File, Edit, View, History, Bookmarks, Tools, and Help. The address bar contains navigation buttons and a search box with the text "Google". Below the address bar, there are several bookmarks including WebMail, WebCalendar, FastWeb, FastWeb NA, AP 3COM trip, Missioni, Offerte, Ordini, GILDA, Monitors, Progetti, and Dizionari. The main content area features the "GRID CT" logo and a search box with "Jump" and "Search" buttons. Below the logo is the "eela" logo and a "Log In or Register" link. A sidebar on the left contains a list of links under "EELA2 Web" (Create New Topic, Index, Search, Changes, Notifications, Statistics, Preferences) and "Webs" (EELA2, EUMEDGRID, GILDA, ICEAGE, Main, PI2S2, Sandbox, TRIGRID, TWiki). The main content area shows a breadcrumb trail: "You are here: Grid CT WIKI > EELA2 Web > NA2Activity > TrainingOnGLite". Below this is the title "Training on gLite" and a list of links with expandable arrows: Introduction, Security (with sub-link Security related training materials), Information System (with sub-link Information system related training materials), Workload management (with sub-link Job management related training materials), Storage and Cataloguing (with sub-link Storage and cataloguing related training materials), Metadata (with sub-link Metadata catalog related training materials), and Auxiliary gLite middleware tools (with sub-links Grid2Win, SecureStorage, gLibrary DRI, GSAF, and Watchdog). At the bottom, the "Introduction" section begins with the text: "The EELA2 Grid is built with the gLite middleware. The aim of gLite middleware is to give a lightweight access to Grid resources allowing researchers to use Grid facilities without taking care of the specific information technologies used by the..."



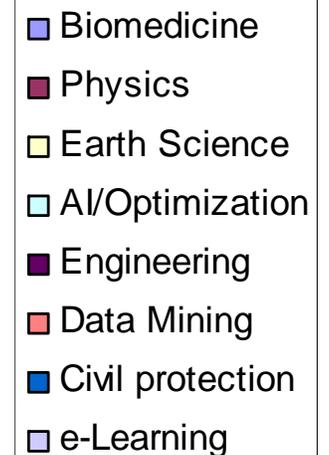
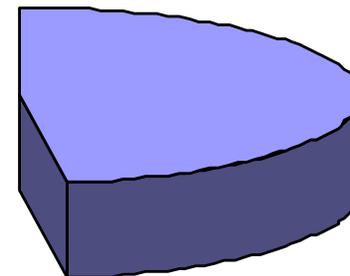
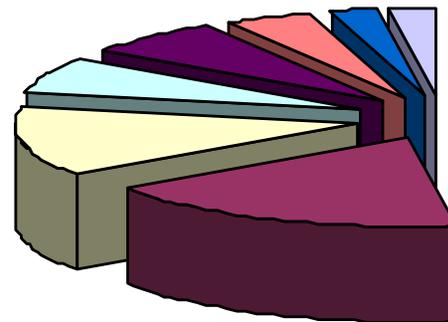
- **46 Applications in total**
- **Assessment based on:**
 - Suitability for Grid deployment;
 - Easiness of gridification;
 - Grid added value;
 - Resources (CPU, storage) commitments of the Institutions involved;
 - Usage of the infrastructure (number of jobs and frequency of runs);
 - Potential outreach / impact (in the scientific community, industry, socially in the country, towards policy / decision makers);
 - Number of involved institutions from Europe and Latin America;



Scientific disciplines involved

- **Distribution by domain:**

- 22 Biomedicine
- 8 Physics
- 6 Earth Science
- 3 AI/Optimization
- 3 Engineering
- 2 Data Mining
- 1 Civil protection
- 1 e-Learning





EELA-2 Applications Database (applications.eu-eela.eu)

EELA-2 - Application Support - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://applications.eu-eela.eu/

WebMail WebCalendar FastWeb FastWeb NA AP 3COM trip Missioni Offerte Ordini GILDA Monitors Progetti Dizionari

NA3 - Application Support

Applications supported by the EELA-2 project

Display Apps. order by | [Want to Collaborate?](#) | [Training Events](#) | [Training Material](#) | [Wiki](#) | [Support request](#)

APPLICATION	DOMAIN	COUNTRY / INSTITUTION(S)	STATUS	VIDEO?
AERMOD	Environmental Sciences	(CUBAENERGIA) (CITMATEL)	3	No
Aïuri	Data mining	(UFRJ)	3	No
ALICE	HEP	(CIEMAT) (UNAM)	3	No
AlignSeq	Biomed	(UTPL)	2	No
ATLAS	HEP	(UNLP-IFLP)	3	No
BiG	Biomed	(UPV)	3	Yes
BioMD	Biomed	(UFRJ)	2	No
BRAMS	Earth Sciences	(UFCG)	3	Yes
CAM+WRE	Earth Sciences	(SENAMHI) (UNICAN)	3	Yes
CardioGrid Portal	Biomed	(UBA)	2	No
CMS SW	HEP	(UNIANDÉS)	2	No
CROSS-Fire	Civil Protection	(UMINHO)	2	Yes
Data Grid MI	Biomed	(InCor-USP)	3	No
DistBlast	Biomed	(UnB)	2	No
DKESG	Physics	(CIEMAT) (UNAM)	3	No
DRACON	HEP	(UFRJ)	2	No
eIMRT	Biomed	(CESGA)	2	Yes
fMRI	Biomed	(UA)	3	No
qCSMT	Earth Sciences	(IPGP)	3	No

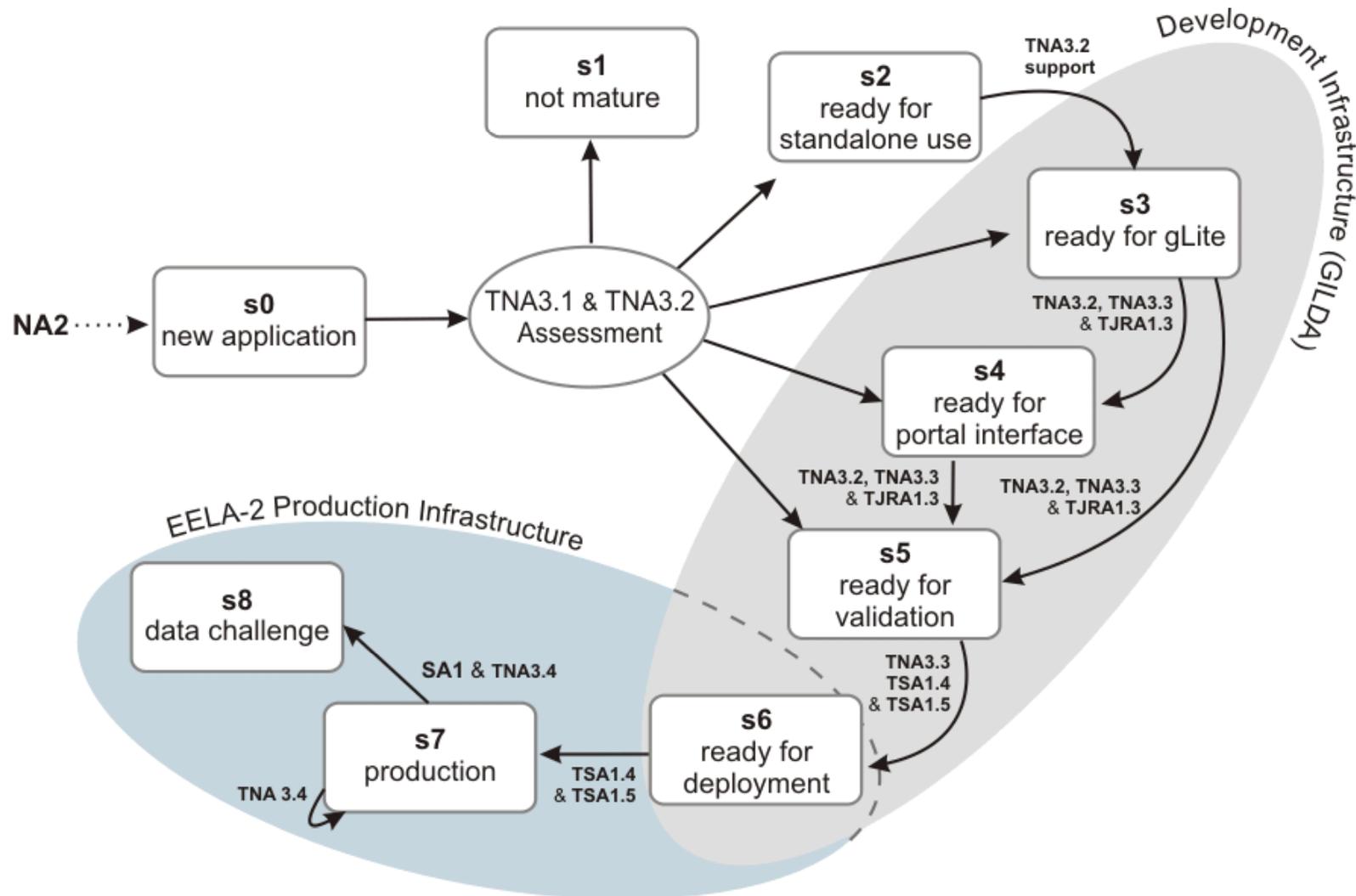
Done



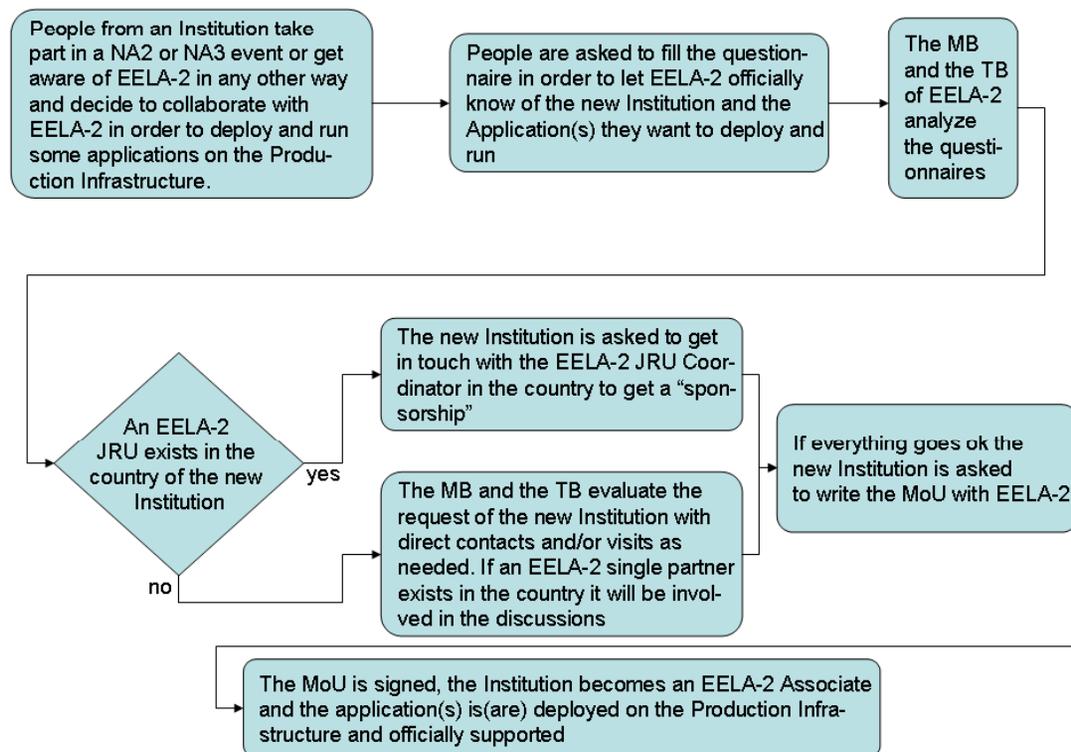
Some Examples...

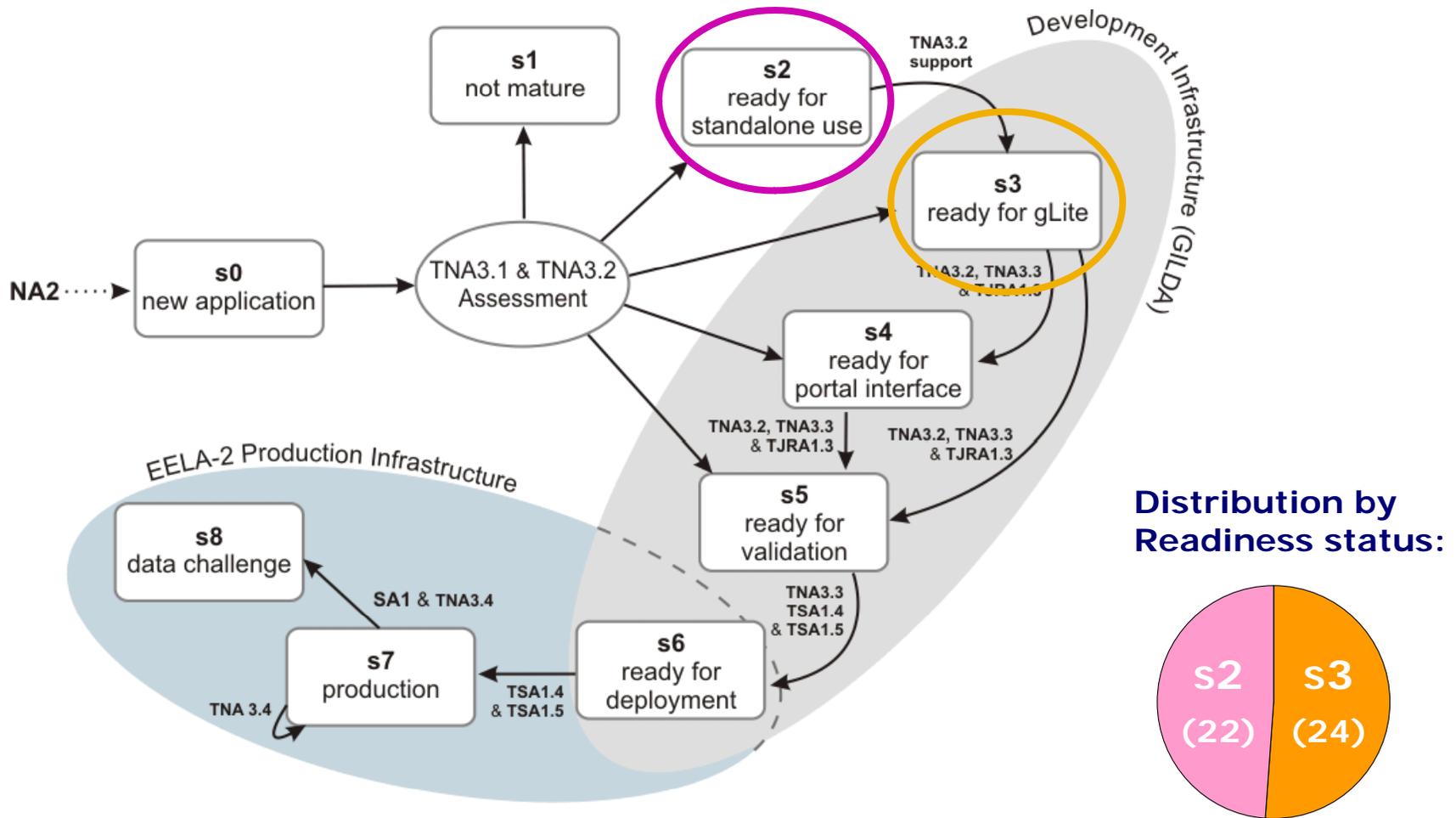
The image displays six browser windows, each showing a different application page from the EELA portal. The applications are:

- Application 1:** AERMOD - AMS (American Meteorological Society) / EPA (Environmental Protection Agency) Regulatory Model. It is a model for the assessment of local dispersion of atmospheric pollutants.
- Application 2:** BLAST in Grids. A bioinformatics tool for finding homologous sequences in a very computationally intensive process.
- Application 3:** gSEED - Grid Centroid Seismic Moment Tensor. A program to obtain the Centroid and the Seismic Moment Tensor of a given earthquake.
- Application 4:** Portal de Porticos - Portal de Porticos (Damage Portal). A web-based finite element working environment for structural analysis.
- Application 5:** SENESIM - 3D Simulation of the Seismic Response of Geological Basins. A problem of computing wave propagation in large sedimentary basins.
- Application 6:** CROSS Fire - Collaborative Resources Online to Support Simulations on Forest Fires. A 3D model for fire risk assessment.



- **The number of applications are expected to increase**
 - First Step: Visit the “How to collaborate” section of the EELA-2 website
 - Second Step: Fill out the “Survey of Applications”
 - (available at wiki.eu-eela.eu)







What we can offer

- **Free and customized technical support**
 - Specialized support team (climate / biomedicine)
 - Possibility of organizing “Gridification weeks”
- **Invitation to participate in the EELA-2 training events (Tutorials, Schools...)**
 - in some cases, travel expenses might be covered
- **Access to the EELA-2 Grid**

Applications doing well can also apply for travel funds to present their results in conferences worldwide !



- **GILDA Training infrastructure**
Grid INFN Laboratory for Dissemination Activities



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

- **Userful Links**
 - **Sponsors**
 - **Usage Statistics**
 - **Old Usage Statistics**
- 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, the GILDA Virtual Organization is based on 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 GILDA P-GRADE Portal](#): a Grid workflow developer and executor environment based on the latest release of the [P-GRADE Grid Portal](#) provided by [MTA SZTAKI](#);
 - [the monitoring systems](#): several tools monitoring the status of the GILDA Testbed and the availability of its grid services;
 - [the GILDA mailing lists](#): gilda-users@ct.infn.it, for users, and gilda-sitemanagers@ct.infn.it, for system administrators (both lists are restricted to members only).

- **“Gridify” your application for you**
(instead, we teach you how to do so)
- **Funding your institution to pay salaries or scholarships for porting your application on the EELA-2 Grid**



- **Report periodically to NA3 so that we can follow up the gridification process.**
 - See: <http://grid.ct.infn.it/twiki/bin/view/EELA2/AppReportsEELA>
- **Run your application on the EELA-2 Grid on a regular basis**





NA3 useful bookmarks

- **Info about the applications**
 - <http://applications.eu-eela.org>
- **Wiki Page**
 - <http://wiki.eu-eela.org>
- **NA3 Support system**
 - <http://eventum.eu-eela.eu>
- **NA3 daily**
 - http://twitter.com/eela_na3

<leandro.ciuffo@ct.infn.it>

<rafael.mayo@ciemat.es>

<manuel.rubio@ciemat.es>

CONTACT US !!!





EELA-2 Operations Centre (eoc.eu-eela.eu)

EELA-2 Operations Centre - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://eoc.eu-eela.eu/

WebMail WebCalendar FastWeb FastWeb NA AP 3COM trip Missioni Offerte Ordini GILDA GILDA Monitors Progetti Dizionari

EELA-2 Operations Centre

About SA1 SA1 Events

Main Menu

- Home
- Support
- Organization and Contacts
- Docume station
- Administration
- Infrastructure Information

EELA-2 Operations Centre

EELA-2 Project
Written by Administrator
Monday, 21 July 2008 00:00

EELA-2 aims to build a high capacity, production-quality, scalable Grid Facility providing round-the-clock worldwide access to distributed computing, storage and network resources needed by the wide spectrum of applications from European - Latin American scientific collaborations, with special focus on:

- Providing a complete set of reusable services fulfilling application requirements;
- Ensuring the long-term sustainability of the e-Infrastructure beyond the term of the project.

Last Updated (Thursday, 21 August 2008 19:29)
Read more... >>>

About SA1

Written by Administrator
Thursday, 31 July 2008 18:24

The Service Activity 1 (SA1) is creating, operating, maintaining, supporting and managing a production quality Grid empowered Infrastructure, which makes computing and storage resources from selected partners across Latin America and European areas accessible to EELA-2 e-Science communities.

Last Updated (Thursday, 21 August 2008 19:33)
Read more... >>>

SA1 Events

September 2008

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	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				

Latest Announcements

- Support System
- Generic Installation & Configuration Guide - gLife Version
- Resource Centre Management
- Manage your Site
- Certification Authority and Virtual Organization Operations

Done





Status of EELA-2 Infrastructure

FEL A-2 Production Core infrastructure



**Core services deployed. Pledged resources installed ramping up.
Production service available in October.**

- 11 sites in EU
- 650 CPUs
 - 200 in LA
 - 450 in EU
- 11 TB of Disk
 - 2 in LA
 - 9 in EU

gite-AMGA_postgres

gite-PX

gite-LB

wms-eela.ceta-ciema.es
gite-WMS



User Support System (eventum.eu-eela.eu)

Stats - EELA Issue System - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://eventum.eu-eela.eu/eventum/main.php

EELA Issue System (Logout) Create Issue | List Issues | Advanced Search | Associate Emails | My Assignments | Stats | Reports | Internal FAQ | Help

EELA Switch Developer: Roberto Barbera [CLOCKED OUT] (Preferences Clock In) keywords Search id # Go

Overall Stats

Hide Closed Issues

Issues by Status:

closed	21
unhandled	5
assigned	4
open	3
on hold	1

Issues by Release:

No issues could be found.

Issues by Priority:

Standard	10 / 14
High	2 / 6
Low	0 / 1

Issues by Category:

Network (NT)	0 /
Training and Dissemination (TD)	0 /
Middleware (MW)	1 /
JRA1 Services / OurGrid / Grid2Win (JR)	1 /
Uncategorized	1 /
Applications / Gridification Support (AS)	3
Grid_Site_Deployment (GD)	1 /
Done	

Graphical Stats (All Issues)

Issues by Status

closed	21
unhandled	5
assigned	4
open	3
on hold	1

Issues by Priority

Standard	24
High	8
Low	1

Issues by Assignment

Diego Carvalho	6
Frederico de Oliveira	4
Manuel Cotallo	4
Vanessa Hamar	3
Ramon Diacovo	3
Bruno Rodrigues Silva	3
Raul Priego	2
Riccardo Bruno	2
Diego Scardaci	2
Manuel Ferraz	1
...	1

Issues by Category

Operations (OP)	14
Resource Providers (RP)	6
Uncategorized	4

```

    graph TD
      USER((USER)) -.-> s1[s1 Open]
      OOD((OOD)) -.-> s2[s2 Unhandled]
      s1 -- a1 - OOD --> s2
      s2 -- a2 - Expert --> s3[s3 Assigned]
      s3 -- a3 - Expert --> s4[s4 Closed]
      s4 -- a4 - Expert --> s2
      s2 -- a8 - OOD --> s6[s6 Returned]
      s4 -- a5 - Expert --> s5[s5 On hold]
      s5 -- a6 - Expert --> s6
      s6 -- a7 - Expert --> s2
      s6 -- a9 - USER --> USER
  
```

www.eu-eela.eu



How to access EELA-2 ? (inside the NA3 wiki site)

HowToAccessEELA < EELA2 < Grid CT WIKI - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://grid.ct.infn.it/twiki/bin/view/EELA2/HowToAccessEELA

WebMail WebCalendar FastWeb FastWeb NA AP 3COM trip Missioni Offerte Ordini GILDA Monitors Progetti Dizionari

GRID CT

Jump Search

Edit Attach Printable

You are here: Grid CT WIKI > EELA2 Web > HowToAccessEELA

r2 - 29 Jul 2008 - 08:43:10 - LeandroCiuffo

Log In or Register

EELA2 Web

- Create New Topic
- Index
- Search
- Changes
- Notifications
- Statistics
- Preferences

Webs

- EELA2
- EUMEDGRID
- GILDA
- ICEAGE
- Main
- PI2S2
- Sandbox
- TRIGRID
- TWiki

How to access EELA(-2)

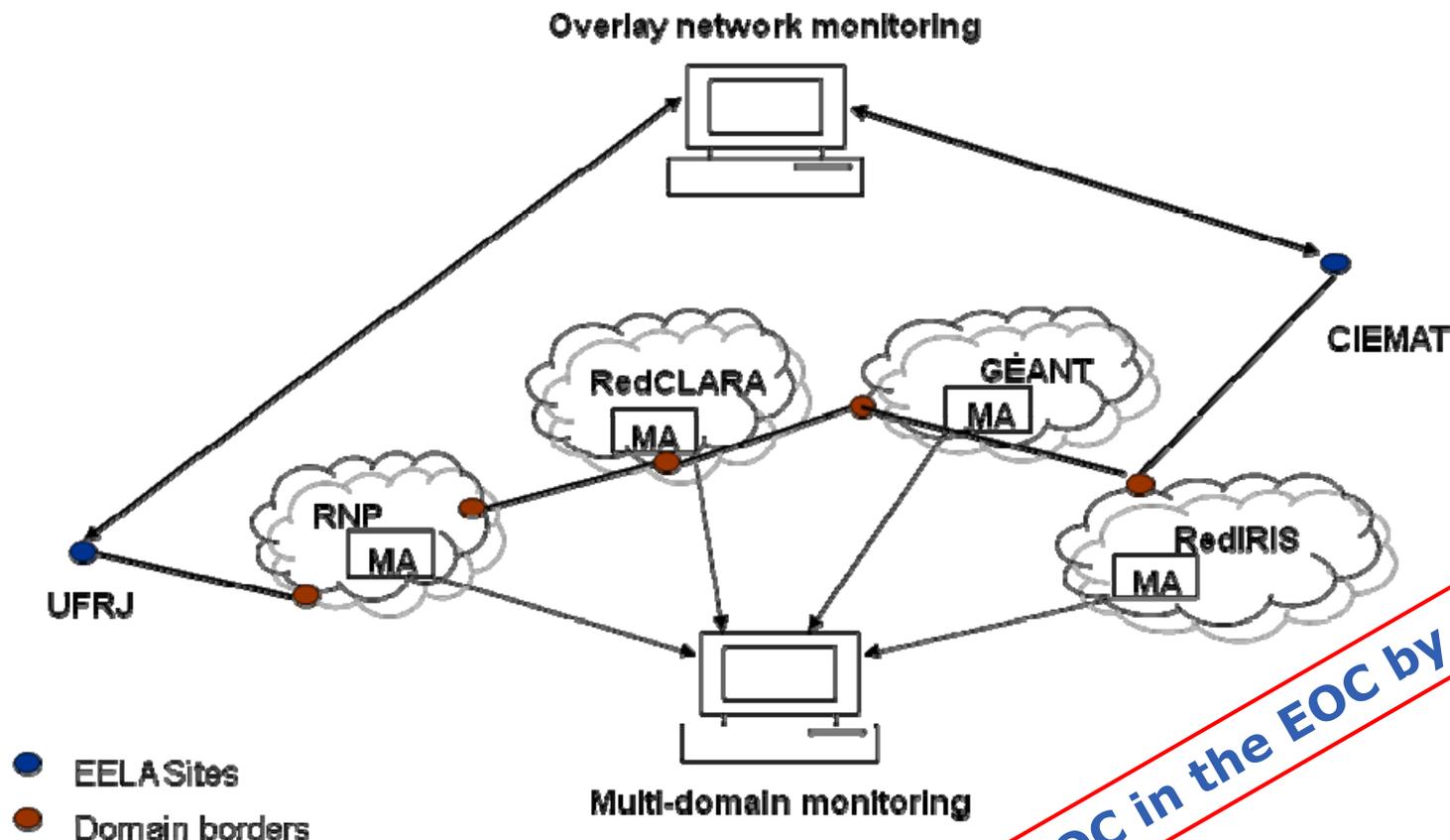
- ↓ [Getting a personal certificate](#)
- ↓ [EELA-2 AUP - Acceptable Use Policy](#)
- ↓ [Registering with a Virtual Organisation \(VO\)](#)
- ↓ [User Interface \(UI\)](#)
- ↓ [Log in - How to use the VOMS server](#)
- ↓ [Current core services available](#)
- ↓ [Asking for technical support](#)

Getting a personal certificate

EELA-2 members must have a unique electronic identity, commonly known simply as a **personal digital certificate**. These digital certificates have to be requested from an IGTF ([International Grid Federation](#)) accredited Certification Authority (CA).

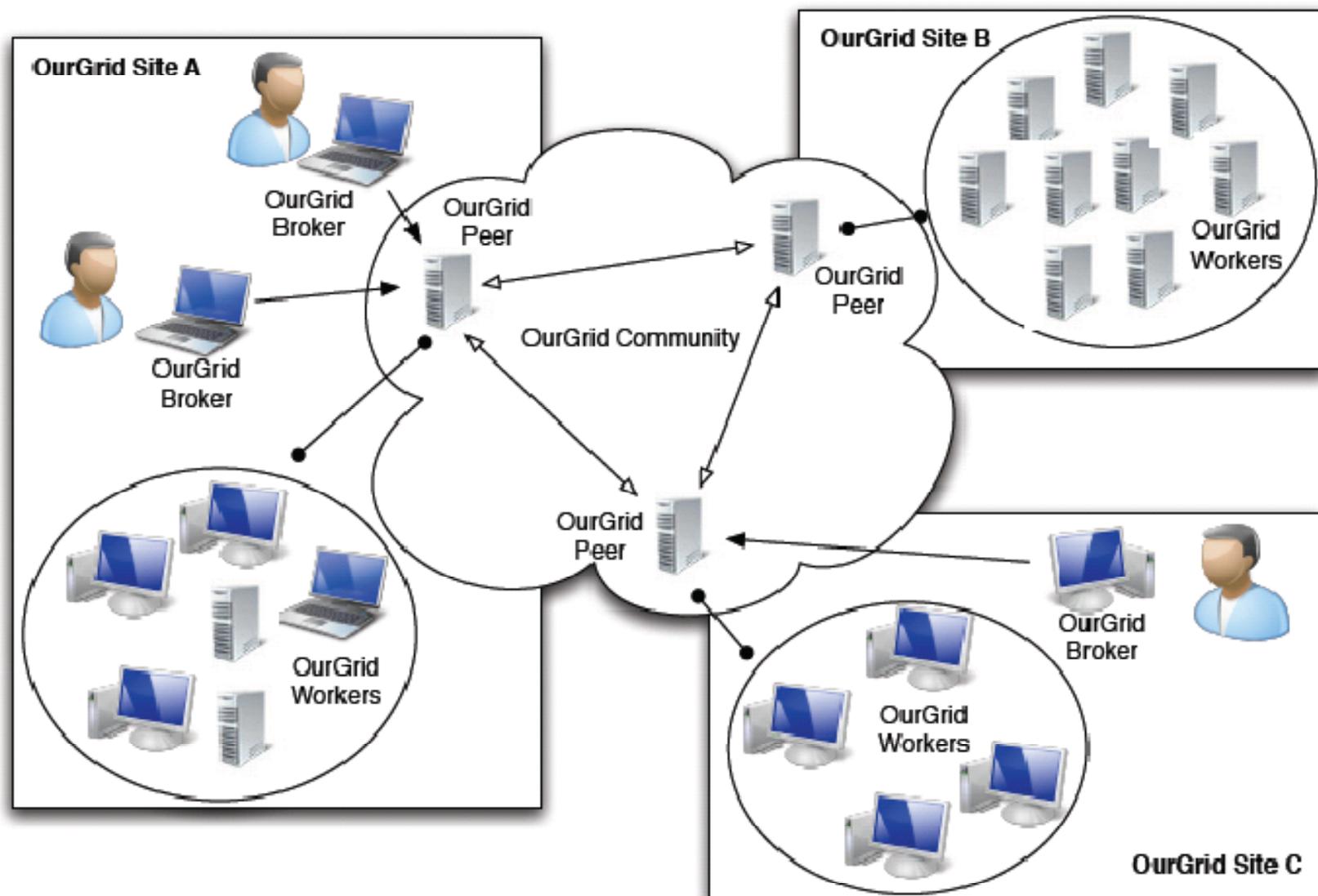
All of [unclear] and some Latin American countries already operate national Grid CAs. [unclear] should apply to the CA in the country in which they live in. The list of national Grid CAs for EELA partners is given below. Each CA may have different procedures to solicit certificates, so please follow the instructions on the respective sites.

More on this later in Herbert's and Raul's presentation



Integration of the ENOC in the EOC by Q1 2009

- Based on perfSONAR (collaboration with GEE-III and RINGrid)
- Web service oriented
- Each network controls its own monitoring system
- Time series can be accessed in a uniform way

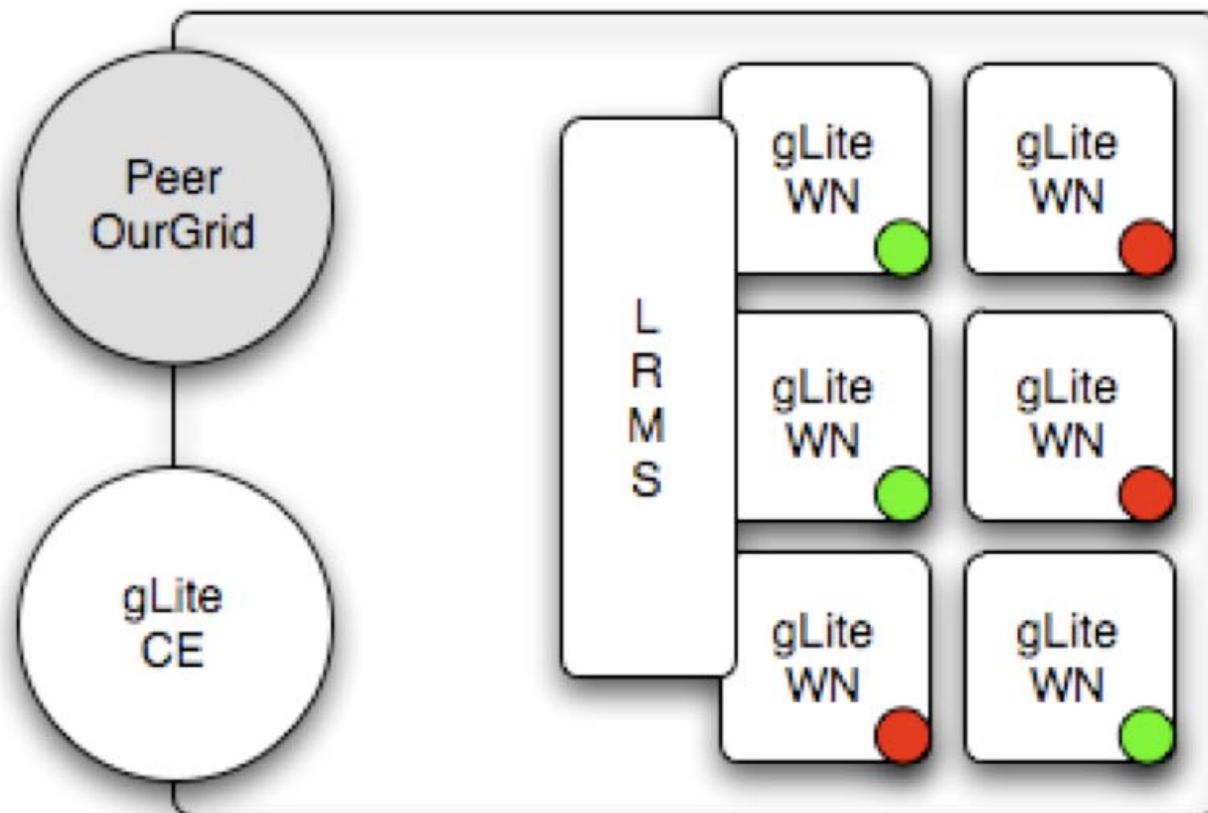




gLite ↔ OurGrid Interoperability

(1/2)

gLite ⇨ OurGrid



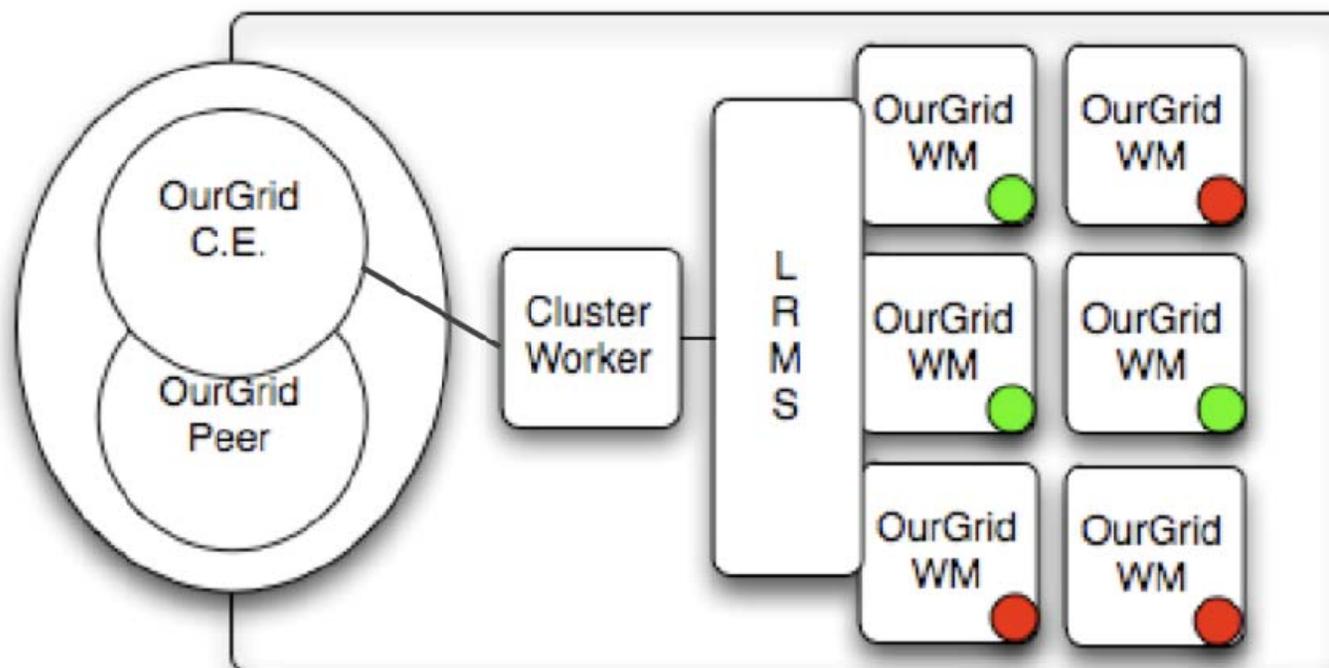
- gLite WN idle - OurGrid Worker Manager (WM) running
- gLite WN busy - OurGrid WM not running



gLite ↔ OurGrid Interoperability

(2/2)

OurGrid ⇨ gLite



- OurGrid Worker Node (WN) not allocated to the CW - idle or running preemptible OurGrid WN
- OurGrid WN allocated to the CW - running non-preemptible OurGrid WN or gLite WN



Other JRA1 Middleware Services

JRA1Services < EELA2 < Grid CT WIKI - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://grid.ct.infn.it/twiki/bin/view/EELA2/JRA1Services#EEL

designed to follow closely the guidelines of the Recommended External Software Packages for EGEE Communities (RESPECT) program, sponsored by EGEE-II.

EELA-2 Services

Services	Services for Applications	Services for Infrastructure
OurGrid middleware	No	Yes
Grid2Win	Yes	Yes
Grid Storage Access Framework	Yes	No
Secure Storage	Yes	Yes
Tagging	Yes	Yes
GFAL Java API	Yes	No
gLibrary/DR1	Yes	No
Storage Accounting	No	Yes
WatchDog	Yes	No
Utilities	Yes	No

EELA-2 Applications & JRA1 Services

The following table shows a possible association between EELA-2 Applications and JRA1 Services. JRA1 team in collaboration with NA3 team inferred these associations examining the EELA-2 Application questionnaires.

APPLICATION	DOMAIN	GFAL	gLibrary	Grid2Win CE	G
3D Sim.	Earth Sciences				X
AERMOD	Environmental Sciences	X			X
...

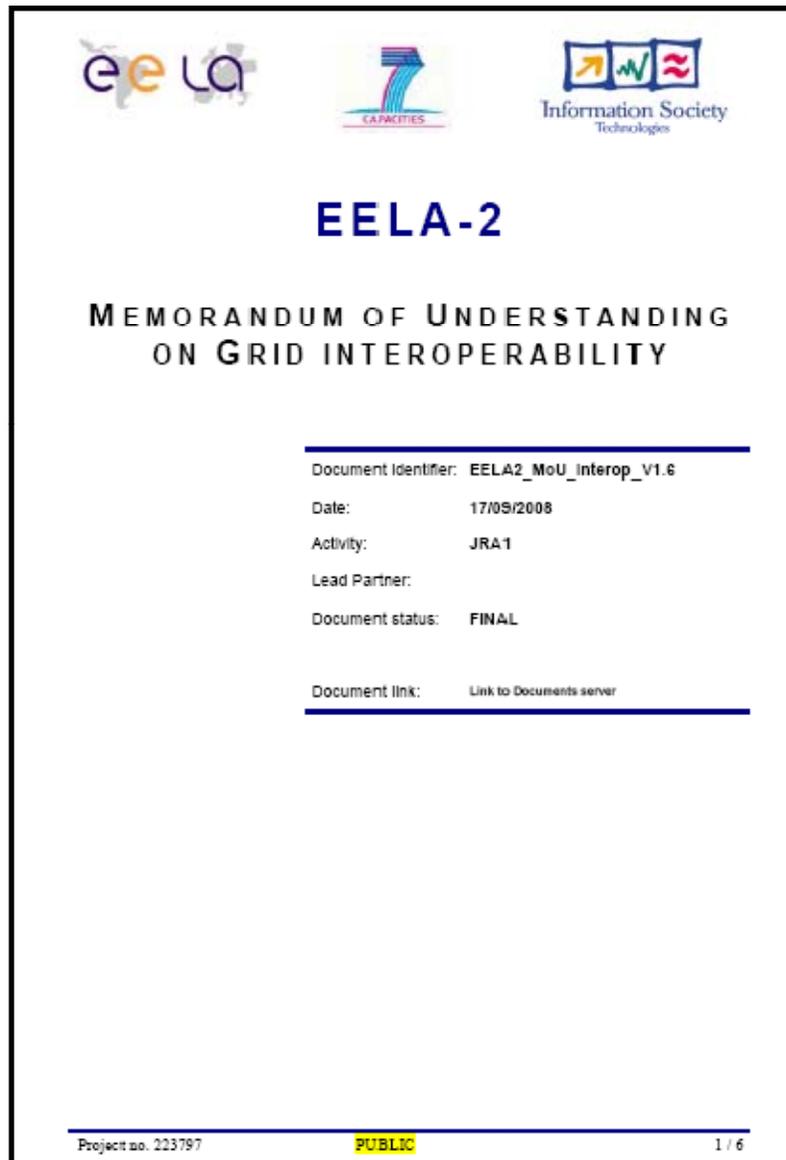
Done



The EELA-2 Forge Repository (forge.eu-eela.eu)

The screenshot shows the GForge website interface. The browser title is "Gforge: Welcome - Mozilla Firefox". The address bar shows "https://forge.eu-eela.eu/". The page has a navigation menu with "Home", "My Page", "Project Tree", "Code Snippets", and "Project Openings". The main content area includes a welcome message for INFN Catania Forge, a "Site Feedback and Participation" section, and a "Set Up Your Own Project" section. On the right, there are several statistics and project lists: "Gforge Statistics" (8 hosted projects, 9 registered users), "Top Project Downloads" (Grid2Win, GSAF, Secure Storage Service), "Highest Ranked Users" (Dario Russo, Local GForge Admin), "Most Active This Week" (GSAF), and "Recently Registered Projects" (OurGrid-EELA, GSAF, gLite4win, Secure Storage Service, Grid2Win, Site News Admin, Site Admin).

General MoU on Grid Interoperability



EELA-2

MEMORANDUM OF UNDERSTANDING
ON GRID INTEROPERABILITY

Document Identifier: EELA2_MoU_interop_V1.6
Date: 17/09/2008
Activity: JRA1
Lead Partner:
Document status: FINAL

Document link: [Link to Documents server](#)

Project no. 223797 **PUBLIC** 1 / 6

Have agreed so far:

- **EELA-2**
- EDGeS Project
- EUAsiaGrid Project
- EU-India Grid Project
- SEEGRID-SCI Project
- UTIC Laboratory (Tunisia)



Summary and conclusions

- Consortium widening and severe budget constraints make EELA-2 an unprecedented challenge (much more complicated than EELA)
- Long-term sustainability and the search for extra-funding is a top priority
- Partners' commitment and responsiveness must be continuously and pro-actively monitored
- The first six months indicate a steep ramp-up of all the Activities and the forthcoming commission of the production infrastructure will boost the use of the services
- **We look forward to collaborate with the Mexican scientific community and I hope that this workshop will be a very good occasion to set the grounds of a fruitful cooperation**



Thank you very much!
...Questions ?

