

## **From EELA-2 to GISELA**

<u>Raúl Ramos Pollán</u> EELA-2 Deputy Technical Coordinator CETA-CIEMAT (Trujillo – Spain)

on behalf of

<u>Bernard Marechal</u> EELA-2 Project Coordinator CETA-CIEMAT (Trujillo - Spain) & UFRJ (Rio de Janeiro - Brazil)

e-IRG workshop – Madrid – June 2010









- e-Science Grid Facility for Europe and Latin America
- I<sup>3</sup> @ INFRA-2007-1.2.3: e-Science Grid infrastructures
- April 2008 March 2010
  - 2M€ EU contrib
  - 2M€ unfunded
  - 300K€ additional CETA-CIEMAT funds
- 78 members (18 Partners, 9 JRUs)
- 19 countries (14 LA, 5 EU)
- EELA (Jan 2006 Dec 2007), 21 partners, 10 countries, 1.7M€ EU contriub, 400K€ additional CIEMAT fund, 1700 CPUs, 500 CPU.years delivered, 15 applications, 18 tutorials, 2 Grid schools



### EELA-2 Objectives

- Build on EELA a high capacity, production quality, scalable Grid Facility
- Ensure round-the-clock, worldwide access to distributed computing and storage resources
- Support a wide spectrum of applications for both European and Latin American scientific communities, industry and commerce
- Provide empowered Grid facility with versatile services fulfilling all application requirements
- Ensure long-term sustainability of the e-Infrastructure beyond the term of the project (from 2010 onward)

### • EELA-2 Approach

- Expand the current EELA infrastructure
- Collaborate with NRENs and create Regional Operation Centres
- Support actively the creation of National Grid Initiatives (NGI)
- Propose a model for a Latin American Grid Initiative (LGI)

NA1: Management NA2: Dissemination and training NA3: Application Support

SA1: Infrastructure Services SA2: Network Resource Provision

JRA1: Dev Servcs for Apps & Infrs

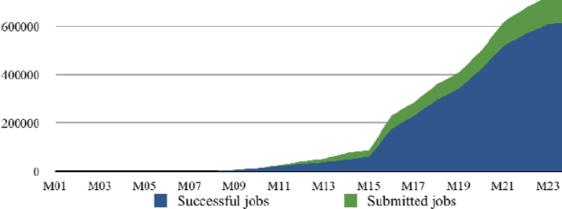


# **EELA-2 Production Infrastructure**

- 29 resource centers
- 8000 cores, 200TB
- 2 ROCs @ UFRJ + CETA-CIEMAT
- Evolution to IGALC







### Figure 6 - Cumulative number of jobs - prod.vo.eu-eela.eu VO

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## **Certification Authorities in LA**

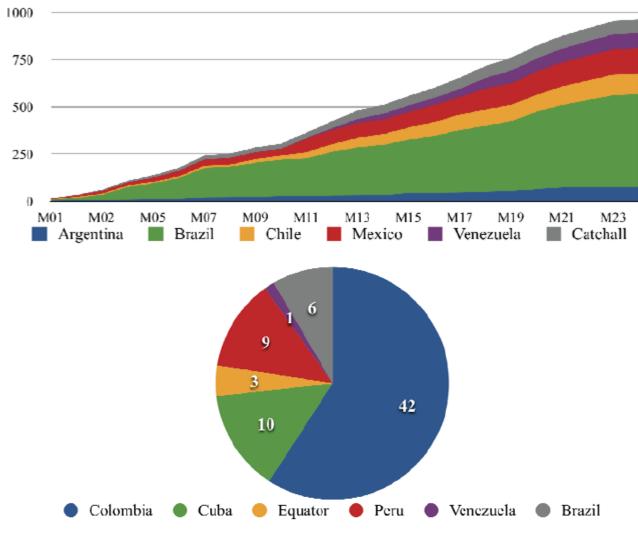
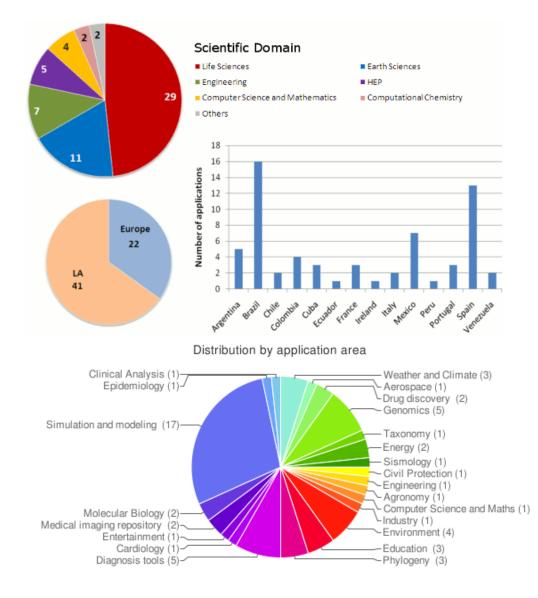


Figure 2 - Certificates emitted by the catchall CA per country



## **EELA-2 User Communities**

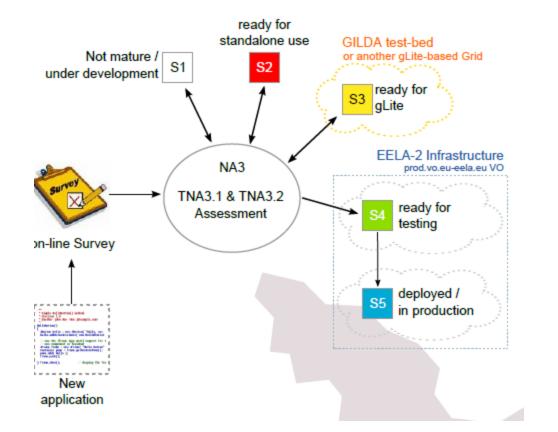
- 61 applications,
- 20 scientific areas

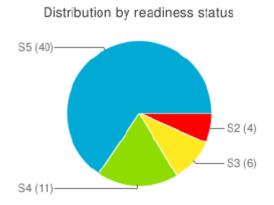


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## **EELA-2 Application Support**







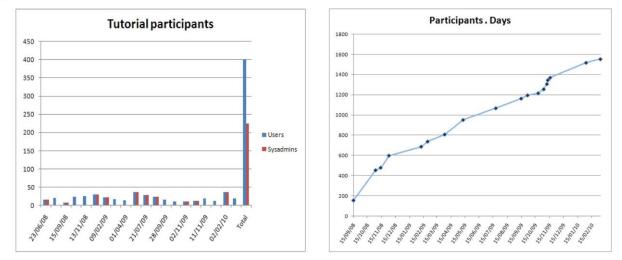
# **Dissemination and Training**

	Done 1st	Done 2nd	Committed 1st Committed in		
Event/Activity	year	year	Year	2 years	Total
Tutorials					
Users and administrators	5	10		$\geq 6$	15
For trainers	1		1	2	1 (*)
On remote grid site installation	1				1
Grid schools	1	1	1	2	2
On-line tutorials	1				1
Gridification weeks		11		_	11
Conferences	1	1	1	2	2
Workshops	4	4		—	8
User forum		1		_	1
Decision makers days	6	1	$\geq 2$	$\geq 6$	7
e-Science virtual days	1	4		$\geq$ 4	5
Posters	3	+ 1	2	3	4
Brochures-Flyers	4	1		3	5
Bulletins	3	2 + 1	3	6	6
General public articles	$\geq 6$	≥15		$\geq 6$	≥21
Non EELA-2 events presentations	≥15	$\geq 8$	· · · · · · · · · · · · · · · · · · ·		≥23
Press releases	$\geq$ 20	$\geq$ 20		_	$\geq$ 40

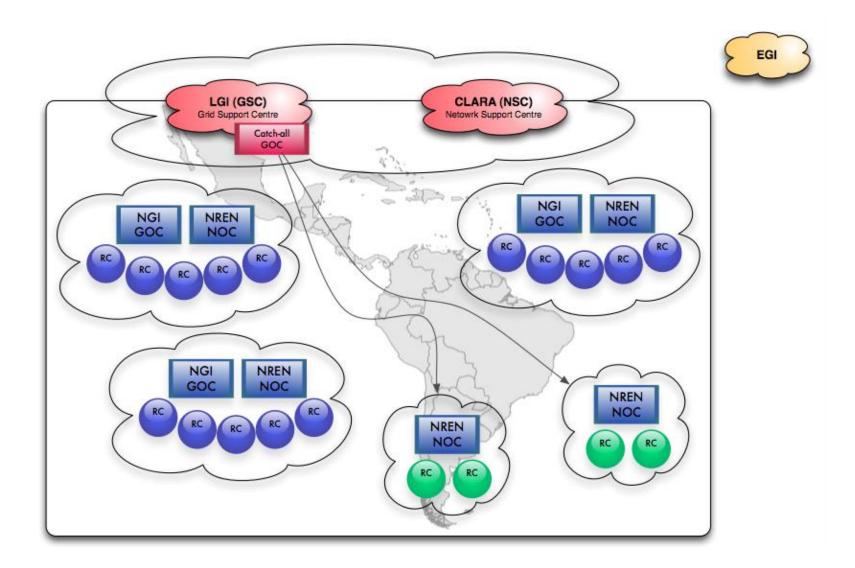
#### Legend

-: not defined

 $\geq$ : at least

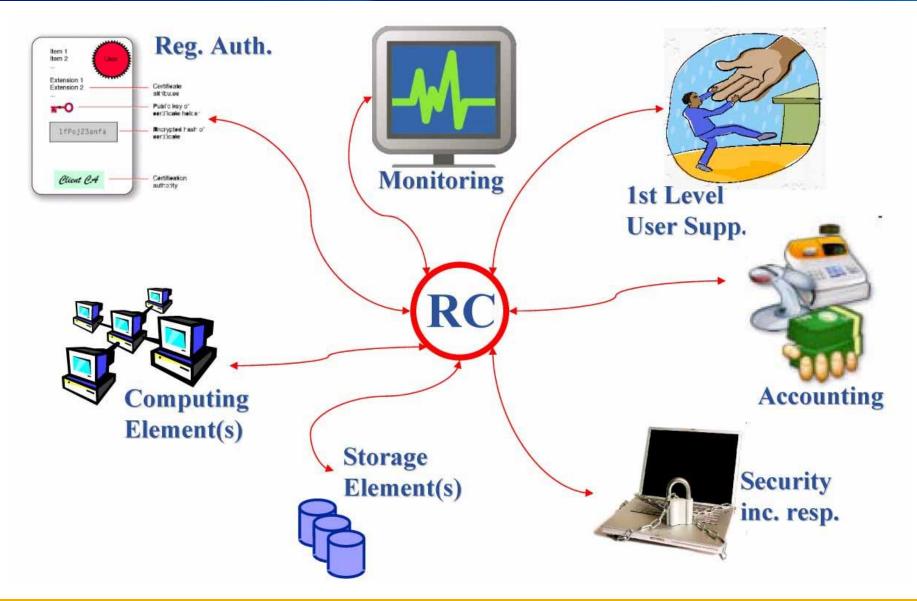


## EELA-2 Sustainability Model (http://documents.eu-eela.org/record/1119/files/)



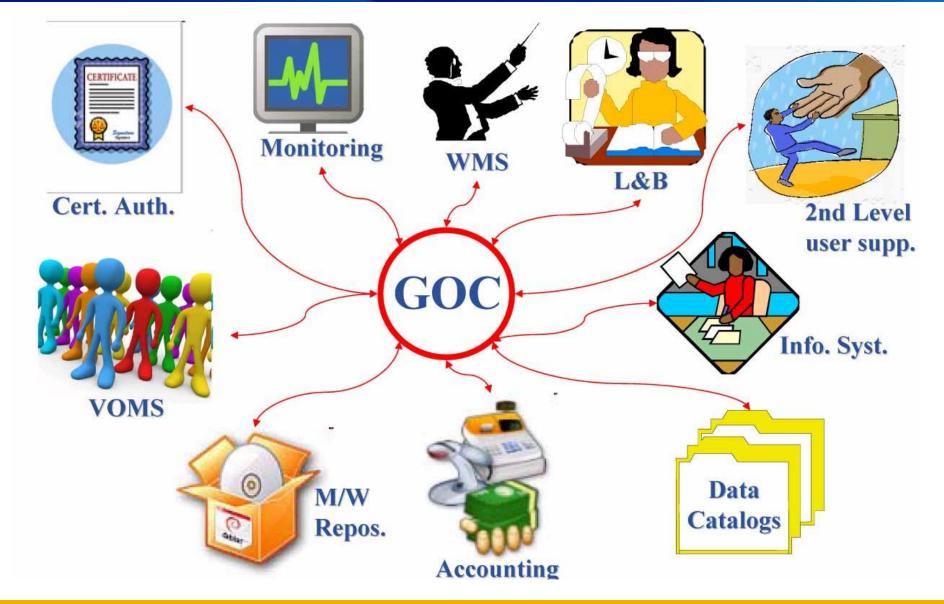






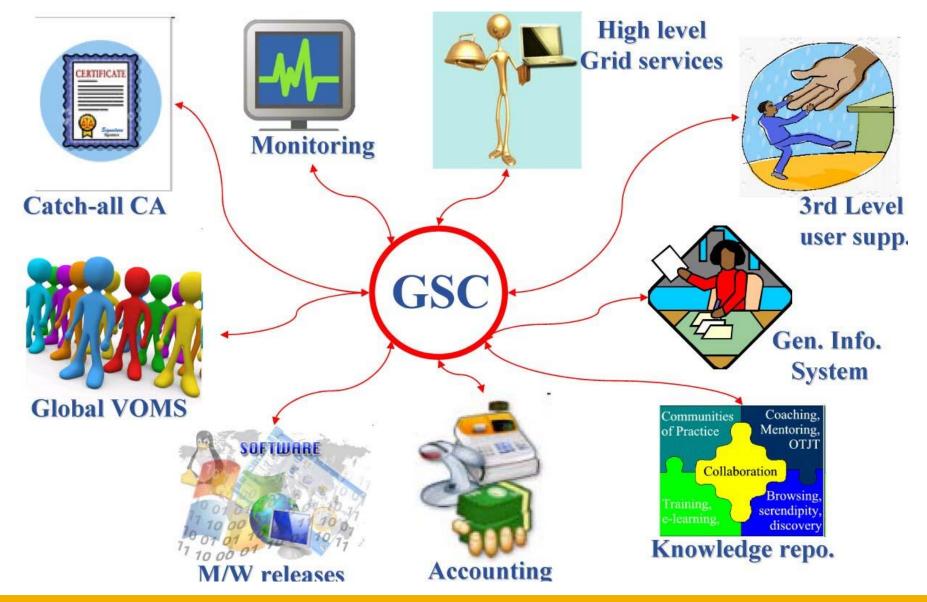








# **Continent Level - GSC**



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- Grid Initiatives for e-Science virtual communities in Europe and Latin America
- I<sup>3</sup> @ INFRA-2010-1.2.3: Virtual Research Communities
- September 2010 August 2011
  - 850 k€ (EC funding)
- 19 Parterns (mostly NRENs)
- 15 countries (11 LA, 4 EU

## Impressive mark after the hearings: 14.5 / 15



## **GISELA Objectives**

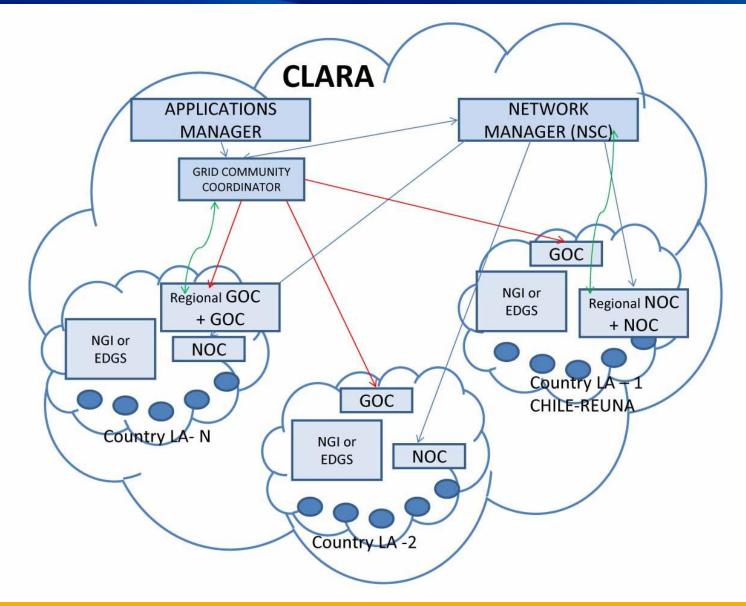
- **Ensure the sustainability of the EU-LA e-Infrastructure** 
  - The sustainability of the European part of the e-Infrastructure being cared of by EGI, GISELA will concentrate on its Latin American component. The tasks, at each level of the e-Infrastructure are:
  - Get all Services fully operational at every Resource Centre (RC) / Institution Level;
  - Implement all Grid Operation Centre (GOC) Services at NGI / Country Level;
  - Implement all Grid Support Centre (GSC) & Network Support Centre (NSC) Services at LGI / Continent Level;
  - Support a catchall GOC for a duration depending of the NGI creation.

### • Support Virtual Research Communities using the EU-LA e-Infrastructure

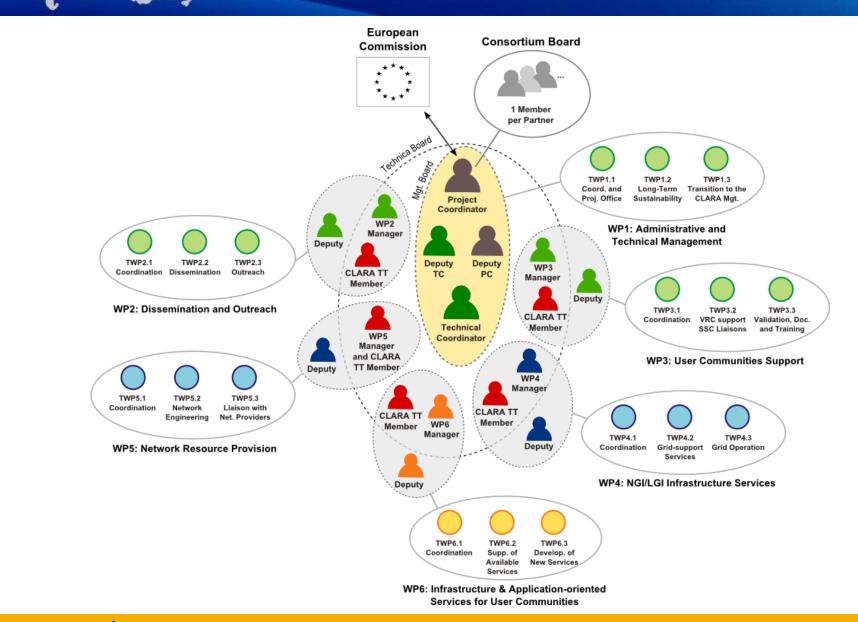
- Provide easy access to the EU-LA Infrastructure to VOs represented in GISELA (HEP, Biomedicine, Earth Sciences, etc.);
- Publicise and support the available GISELA e-Infrastructure and Application-related Services;
- Collaborate with VRCs or SSCs to the development and the deployment of integrated services (e.g. portals, gateways).
- Training & Dissemination activities (coordinate local & national actions)



# **Evolution of the LGI Model**







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• EELA was a success, recognised by the highest EC ranking

- EELA and EELA-2 drastically changed the perspectives about e-Science in Latin America
- Long-term sustainability ofe-Infrastructures worldwide is key for a continued support of Scientific Communities

- CLARA will be a major GISELA actor
- GISELA should start on 01 September 2010