

# **EELA at an end EELA-2 before its onset**

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***EGEE'07***

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# LA status

Purpose & Approach

Partners

Organisation

Objectives

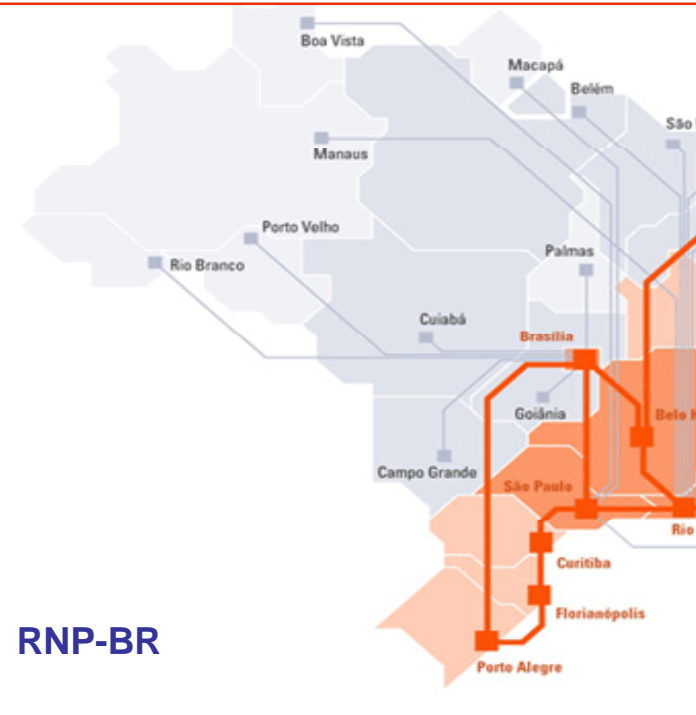
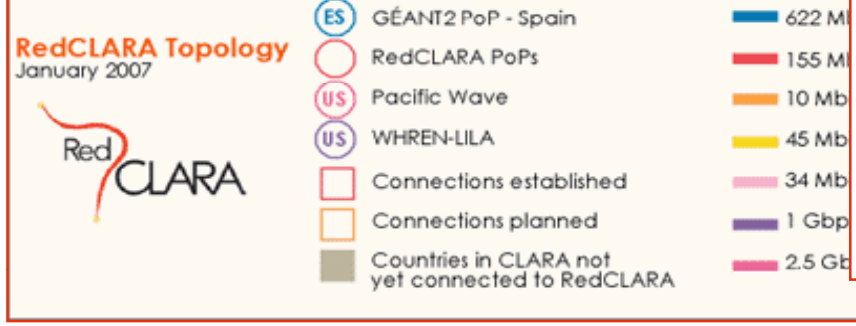
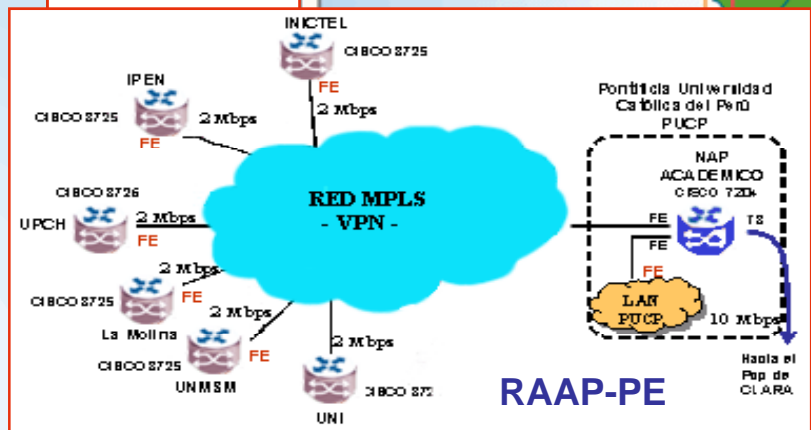
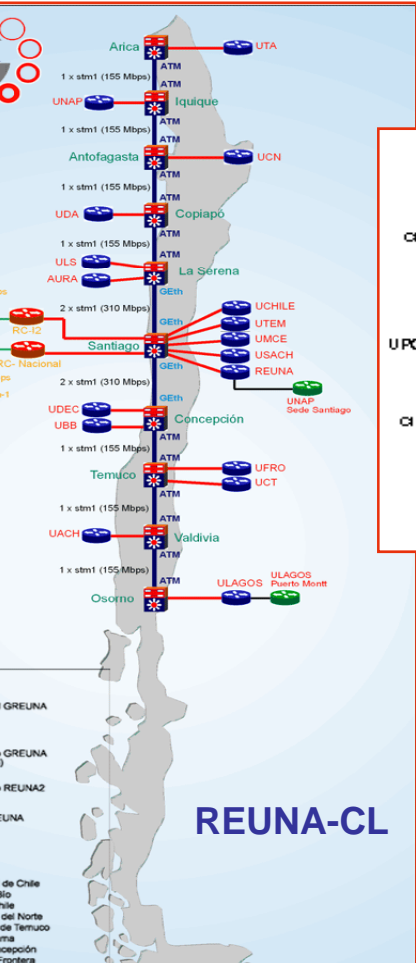
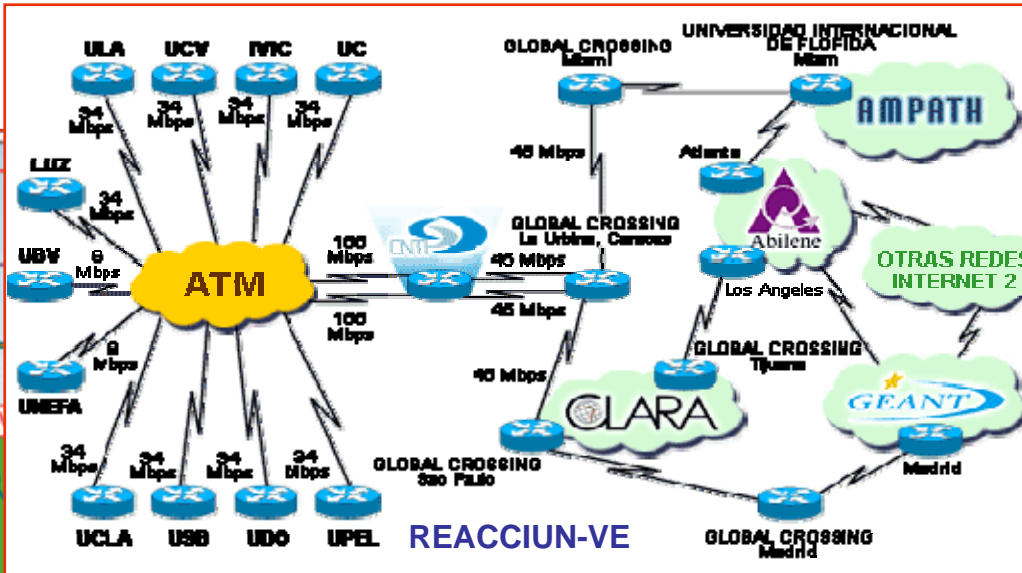
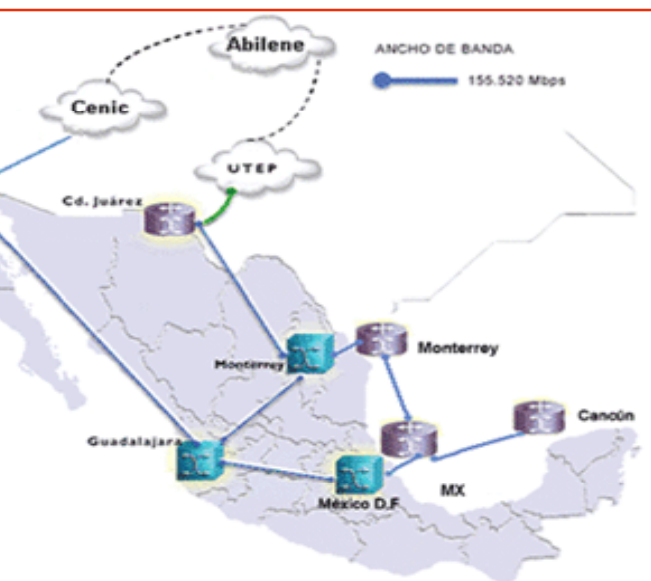
Main Achievements

Collaborations

# LA-2 under FP7

Why? and How?

Partners



Build a bridge between consolidated e-Infrastructure initiatives in Europe and emerging ones in Latin American

Create a collaboration network to deploy a large portfolio of scientific applications on a well supported Pilot Test-bed

Care in parallel of the training in grid technologies and of the knowledge dissemination and outreach

Italy: INFN

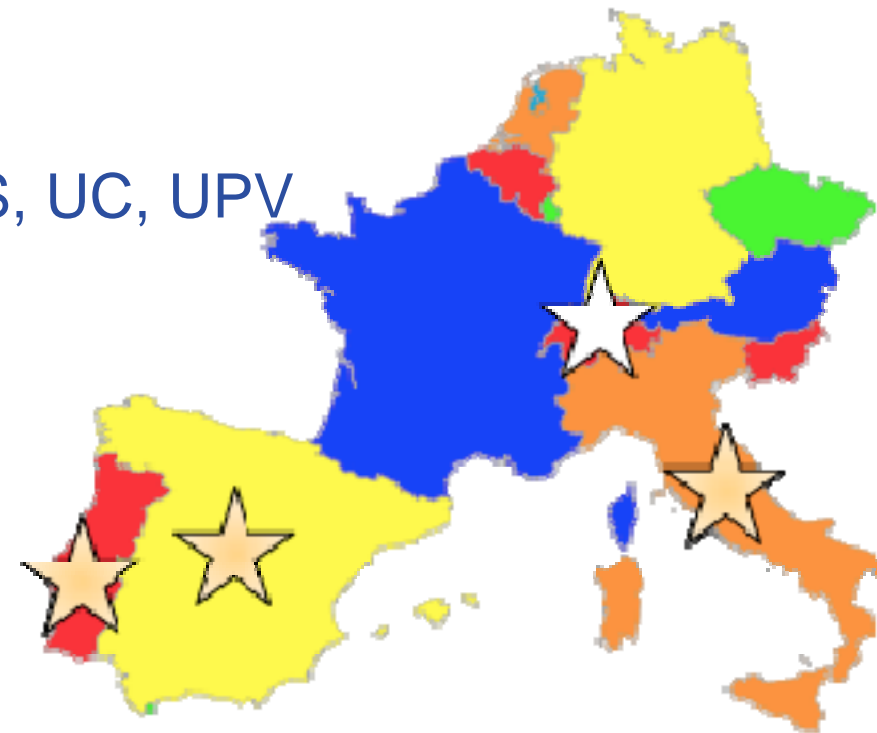
Portugal: LIP

Spain: CIEMAT, CSIC, Red.ES, UC, UPV

CERN



**Countries  
Partners**



Argentina: UNLP

Brazil: CEDERJ, RNP, UFF, UFPA

Chile: REUNA, UDEC, UTFSM

Cuba: CUBAENERGIA

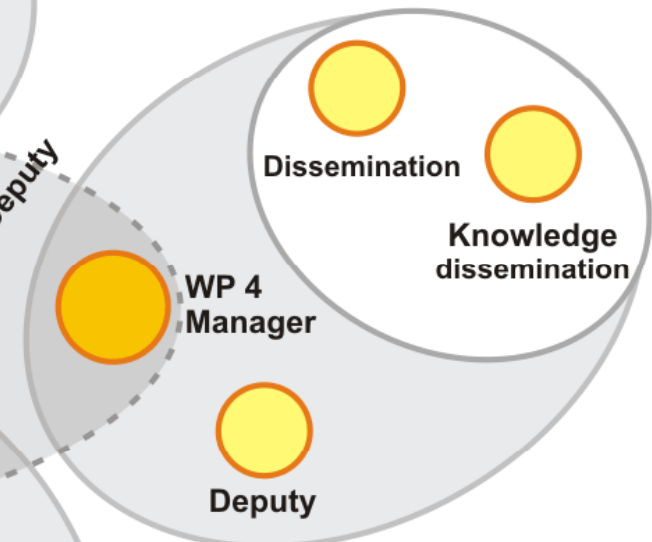
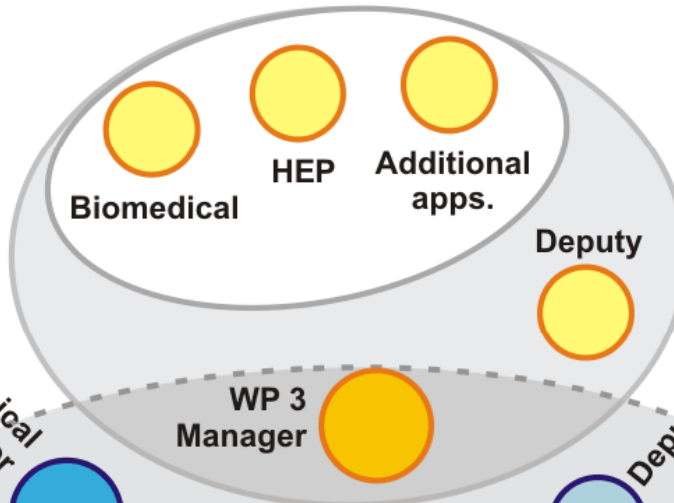
Mexico: UNAM

Peru: SENAMHI

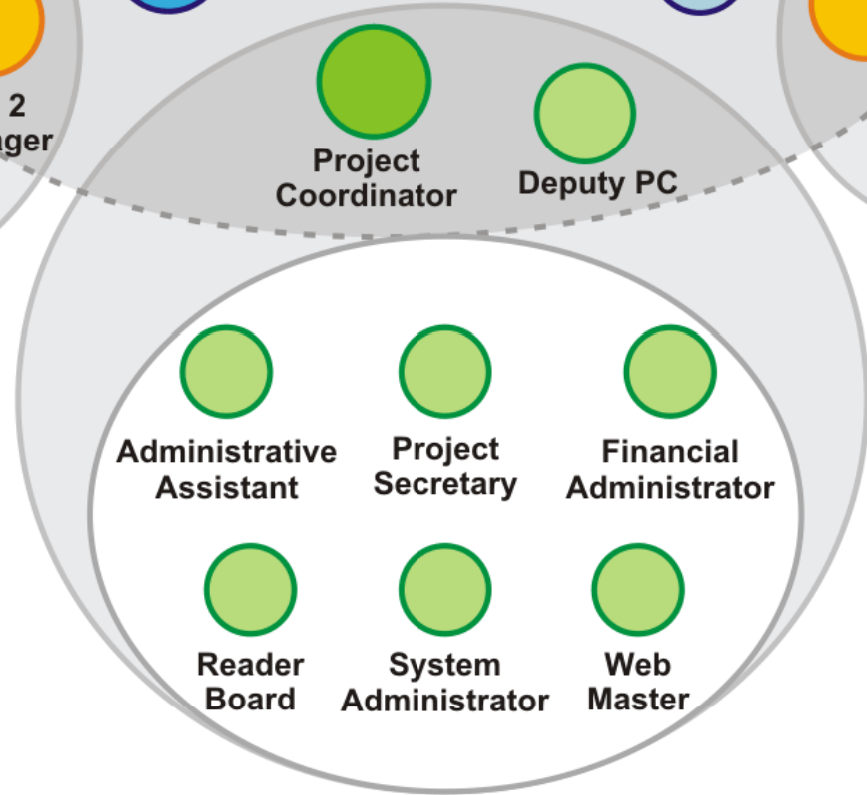
Venezuela: ULA

CLARA

# Work Package 3 Grid Enhanced Applications



# Work Package 4 Dissemination Activities

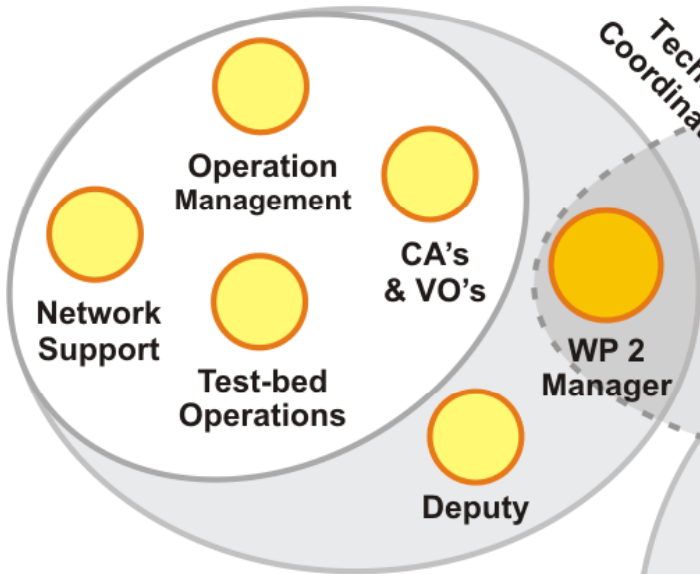


# Work Package 1

Technical Coordinator

TEB

# Work Package 2 Pilot Test-bed Operation and Support



# Establish a Scientific Collaboration Network

- Setting up the structure of the collaboration network
- Implementing adequate support mechanisms
- Adopting policies, regarding the shared use of the e-Infrastructure
- Evaluating new possible areas of collaboration and relevant partners

Set up a pilot e-infrastructure in Latin America,  
interoperable with the existing one in Europe  
(EGEE)

- Adopting a Security Policy based on public and private certificates and establishing Certification Authorities (CAs)
- Creating Virtual Organisations (VOs) for identified Research Communities
- Supporting advanced use of the network and fully integrating it in the shared e-Infrastructure scheme



# Identify and Promote a Sustainable Framework for e-Science

- Identifying research communities and applications that will be enhanced thanks to the use of a shared e-Infrastructure
- Supporting a dissemination effort towards identified and new communities
- Defining a roadmap for a future consolidated e-Infrastructure in Latin America and its links to

EELA pilot test-bed with **22** sites integrated **(WP2)**

More than **100%** of committed resources already in use

High quality network (GÉANT, RedCLARA, NRENs)

Deployment of the first grid continent wide Public Key

Infrastructure accredited by all relevant international bodies

- **Vinod Rebello (UFF - Brazil) as TAGPMA Chair**

EELA Test-bed evolving towards production quality **(WP2)**

Applications deployed on the EELA test bed **(WP3)**

... **(WP4)**

# EGRIS-1 (FIRST EELA GRID SCHOOL - Brazil)

**MS in Grid Environment (CIMATEL & CUBAENERGIA)**

**EMBOSS (UNAM → MoU signed)      *non EELA***

**RegHidro (UFCEG → MoU signed)      *non EELA***

**Distributed Simulation of Multiple Failure Events on Optic  
networks (UNESP, UNICAMP, USP)      *non EELA***

**ATyrus (UFRJ)**

**SD (UFRJ-CEDERJ)**

**Climate Applications (UC, UDEC, SENAMHI)**

**GRIS-2 (SECOND EELA GRID SCHOOL - Venezuela)**

**Red de Computación Distribuida (UCI- CUBA) *non EELA***

**ERMOS (CUBAENERGIA - CUBA)**

**Projeto de Engenharia de Energia (COPPE/UFRJ - BRAZIL)**

**Projeto de Engenharia de Alimentos (UNAM - MEXICO)**

**Proyecto de implementación del Modelo Hidrológico (UTPL - ECUADOR) *non EELA***

ght collaboration between EELA and related EC funded projects (converge on common strategies):

aticGRID, EGEE-II, EUChinaGRID, EUIndiaGRID, EUMEDGRID and SEE-GRID

MoUs already signed with:

- ✓ **BELIEF:** First outcome: EELA- BELIEF joint conference in June 2007 - Rio de Janeiro
- ✓ **SEE-GRID-2:** Participation in Concertation Workshops
- ✓ **UFCG - Brazil:** gLite - OurGrid interoperability
- ✓ **UNIANDRES - Colombia:** a non “EELA country”
- ✓ **UNAM - Mexico:** Emboss - new application in Biology
- ✓ **CEFET/RJ - Brazil:** new resources and applications
- ✓ **Medical Physics Group of CIEMAT- Spain:** GAMOS and MIRaS applications

## **WHY AN EELA-2 PROJECT IN 2008?**

**EELA in paving the way towards e-Science initiatives**

**EELA e-Infrastructure is mature but needs consolidation (cf. EGEE-II)**

**Most applications are in a production quality stage but actual production has to be supported**

**About 80 institutions are eager to use, or collaborate with, an LA e-Infrastructure**

**Actual creation of NGIs should be an EELA-2 outcome**

**OW?**

**Applying to a suitable FP7 call:**

**INFRA-2007-1.2.3**

**e-Science Grid Infrastructures**

**EELA-2 proposal has been submitted to**

**on 20/09/07**

**Building Joint Research Units (JRUs) in 10 LA and EU countries**

# EELA-2

## E-science grid facility for

## European and Latin American communities

- Applications oriented e-Infrastructure
- 14 participating countries (old and new ones):
  - Europe: France, Ireland, Italy, Portugal, Spain
  - Latin America: Argentina, Brazil, Chile, Colombia, Cuba, Ecuador, Mexico, Peru, Venezuela
- 1 International Organisation: CLARA
- Consortium: 55 institutions selected - 81 candidates
  - 1 JRU per country if more than one candidate partner
  - Mostly LA partners with ongoing scientific collaborations with the EU ones



# EELA-2 foreseen organisation

