

# **EELA Applications, Status**

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Identification and Support of Grid Enhanced

Applications

CIEMAT

EGEE User Forum
CERN, 03 of Mars 200 Information Society



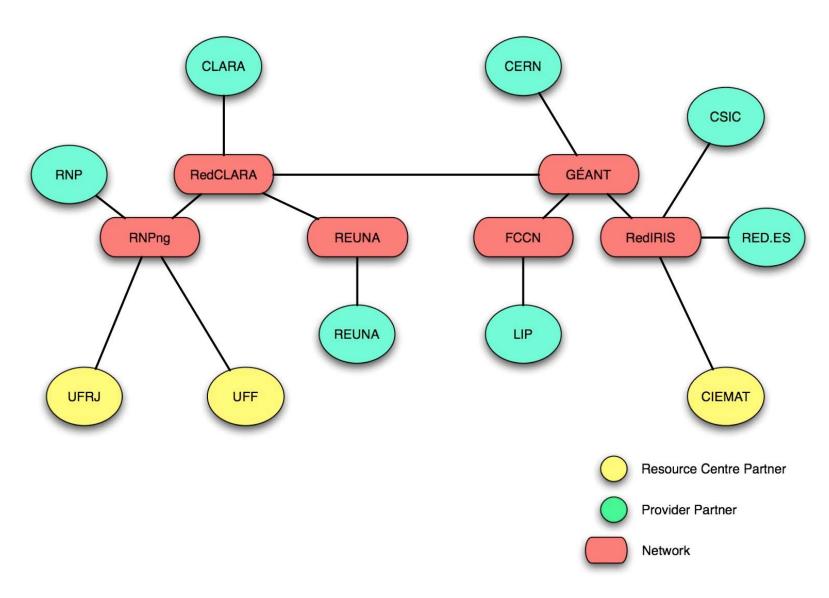
www.eu-eela.org



- Pilot Pilot Testbed
- Three Task versus four scientific areas.
  - Biomed applications
  - HEP applications
  - Additional applications
    - e-education
    - climate applications
- Other Issues



## WP2 Pilot Testbed





# WP2 Pilot Target

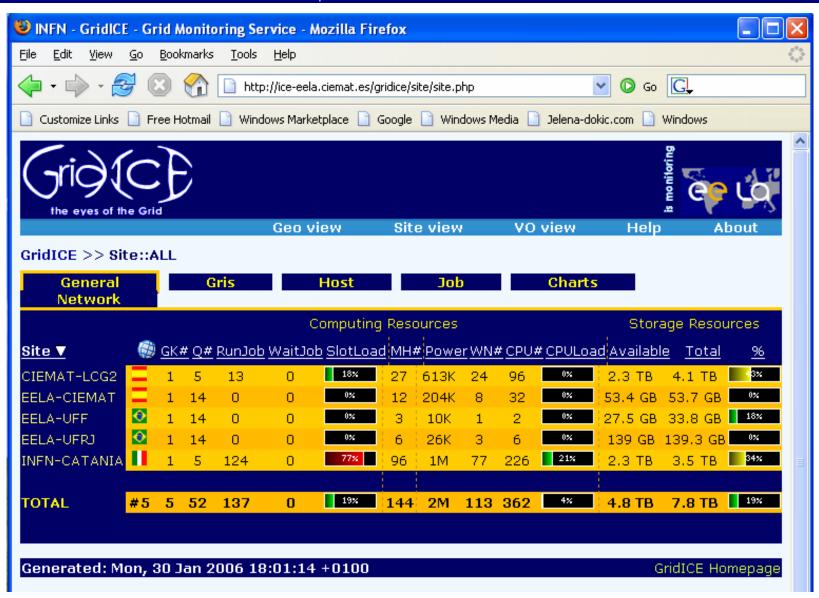
E-infrastructure shared between Europe and Latin America



RCs will be prepared in parallel and they will be integrated into the Pilot Tesbed depending on the readiness for specific application



## WP2 T2.3 KoM





## **Task 3.1 Biomed Applications**

- The choices has been performed according to:
  - Interest on the Latin American Partners.
  - Consolidated User Communities.
  - Maturity of the Applications.
  - Availability of Resources.
  - Particularities of the LA Community.



## **Biomed Applications Selected I**

E-infrastructure shared between Europe and Latin America

#### EGEE Pilots

- GATE (Interest from CUBAENERGÍA).
  - Clinical Data Available from the Health Service of Cuba.
- WISDOM. Interest from ULA on Behalf of the LA Bioinformatic Community.
  - Participation Possible at Three Levels (Resources, New Targets and Proposed Proteins).
  - It Can be Considered for the New Data Challenge



## Biomed Applications Selected II

E-infrastructure shared between Europe and Latin America

#### **EELA Pilots**

- CECALC web portal (ULA <a href="http://www.cecalc.ula.ve/">http://www.cecalc.ula.ve/</a>)
  - Biocomputing portal with >500 Users. Consolidated Community and Well-Accepted Interface. Concurrency of interests with EGEE.
- Protein Dynamics (UFRJ)
  - Experience on Parallel Computing and Gride
  - Focus on Structural Dynamics and Rational Drug Resigns

    Must to be confirmed.





## Task 3.2 HEP Applications Highlights I

- Mature applications
  - Already running on EGEE infrastructure
  - Should be able to run on EELA infrastructure immediately.
- Selected Applications are those included at proposal
  - LHCb (UFRJ)
  - ALICE (UNAM)
- but mantaining lateral vision (opening the doors):
  - CERN experiments, ATLAS & CMS.
  - Others HEP experiments, Pierre Auger Observatory & HEP theory.



## Task 3.2 HEP Applications Highligts II

- HEP application can stress infrastructure inmediately
  - Identify bottlenecks
    - Networks
    - Computing
    - Storage
- HEP applications will be ready to run in the EELA pilot GRID test bed
  - Need immediate and good interaction with WP2



# Task 3.3 Additional Applications Highligts I

E-infrastructure shared between Europe and Latin America

## For Climate Applications

- Gridification of scientific meteorological data, and profit the framework provided by the storage in grid.
- Negociating the data involved.
- Migration of data mining clustering algorithms to GRID (both standard methods and neural network Self-Organised Maps SOM). These algorithms will relate both climate simulations and local observations performing what is called a downscaling process.



## **Task 3.3 Additional Applications** Highligts II

#### For e-Education

- Identification of some "Candidate" Candidate Applications
- e-Education
  - Remote Laboratories
    - Magnetic Oscilation (UFRJ)





- Nuclear Magnetic Ressonance (UNAM)
- Food Engineering Freezing Process (UNAM)
- e-Courses
  - Collaborative Aspects (UNAM): Middleware
  - Semantic Aspects (CEDERJ-UFRJ): incorporated into a Pilot Course

#### Other Issues



- GAUP has been approuved.
- Questionnaire for new applications is in last step to be approuved.
- During the EELA KoM all LA CA Managers was brought together, and the CA at LA are being created.
- First Tutorial has been executed at Madrid from 20-24
   February with a big succes of assitence, 18 for Admin, 25 for User.
- A first candidate to bring the infrastructure has showed his interest, UNEX.



thanks,
gracias,
muito obrigado,
grazie,
merci beaucoup