4thiberian grid infrastructure conference

Latin American GRID Initiatives: Background, Best Experiences and Ongoing Projects

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Agenda

- Relevant Background
- Current Situation
- Some concerns and final remarks

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2005

















Hurricane Disaster Mitigation







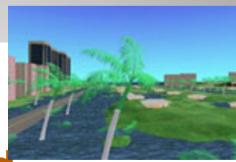




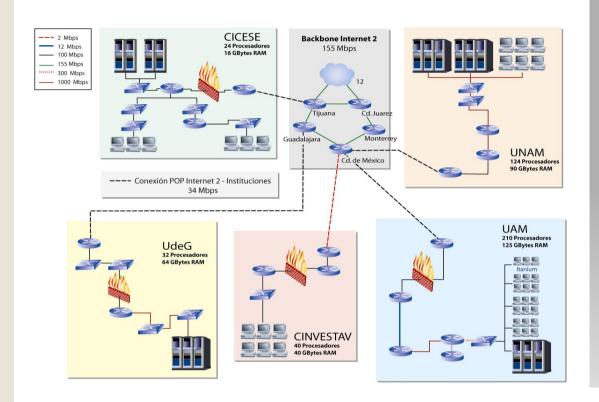








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2004-2005 GRAMA: Mexican Academic GRID Inter institutional GRID

2008-2009 LNGSeC: GRID National Laboratory for e-Science Support

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2006-2008 Remote Instrumentation in Next-generation Grids

Mexico, Uruguay, Chile, Brazil



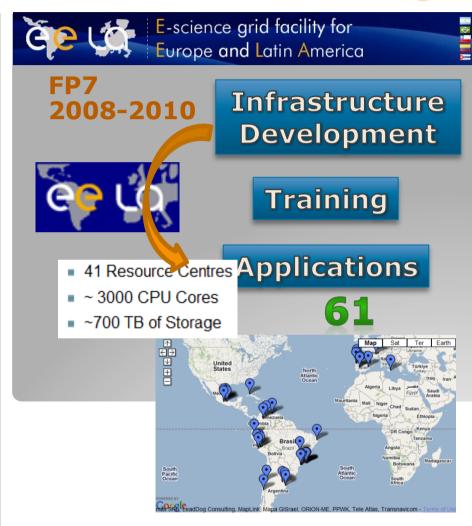


NSF funded, 2002

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JRU-MX
JRU-ARG
JRU-BRA
JRU-PAN
JRU-CL
JRU-COL
JRU-ECU
JRU-PER
JRU-VEN

78 MEMBERS 50 LA 28 EU

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Chilean Grid Initiative @ Centro de Modelamiento Matemático.

Scientific applications of national interest

Venezuela GRID

GRID tools for the integration and administration of network services in Latin America,
Centro Nacional de Cálculo Científico,
U de Los Andes







Metropolitan Delta for High performance computing in Mexico High performance computer centers connected through 10Gbps dedicated links





Other Relevant Projects and Initiatives in terms of National Coverage and LA involvement

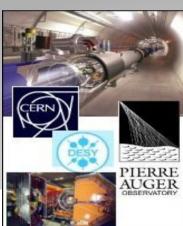
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HELEN



39 member institutions from 14 countries (6 in Europe, 8 in Latin America).

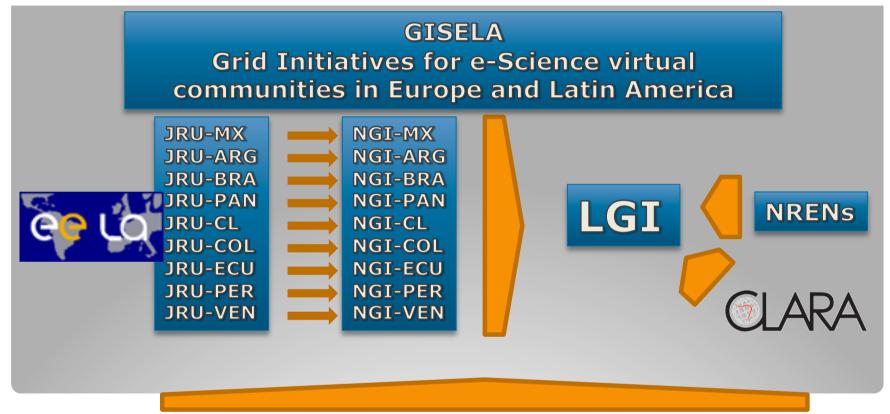
High Energy Physics for the LatinAmerican-European Networks



Other Relevant Projects and Initiatives in terms of National Coverage and LA involvement

FP7 2010-2012

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Infrastructure Development

Training

Applications

FP7 2010-2012

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Two LA ROCs in operation





ROC-CERN



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> Uniandes para na.

Colombia

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IGALC – Latin American and Caribbean Grid Initiative is an entity devoted to the development and dissemination of grid technologies through the region.

Supporting different middlewares (gLite, OurGrid and possibly others), it aims to integrate the existing grids in LAC, becoming a common interface between initiatives such as EGI, EGEE, OSG, TeraGrid. Furthermore, another goal is to foster an ever-increasing overall quality of the infrastructure. The federation of resources gives the communities access to more computational power than what isolated departments are able to provide.

FP7 2010-2012

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EPIKH: Exchange Programme to advance e- Infrastructure Know-How



Reinforce the impact of e-infrastructure in scientific research by means of:
GRID Schools
HPC Courses

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It is well known that grid applications depend highly on connectivity, international and domestic; hence, CLARA is a critical regional infrastructure that needs to find a long term financial model and increase bandwidth to its member countries.

With the exception of Brazil and few other countries, NRENs of Latin America lack adequate bandwidth for grid applications. Fortunately, several international grid initiatives as the ones just mentioned, are gathering organisational strengths, and helping to effectively address this issue.

Some concerns and final remarks



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