



RedCLARA

Cooperación Latinoamericana de Redes Avanzadas

From Platforms to Communities

Luis A. Núñez

RedCLARA Academic Relations

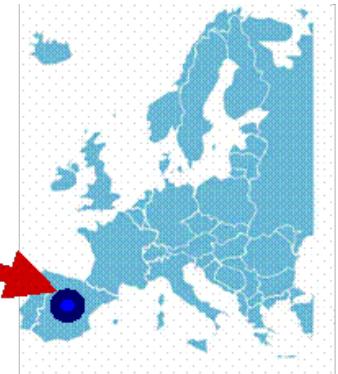
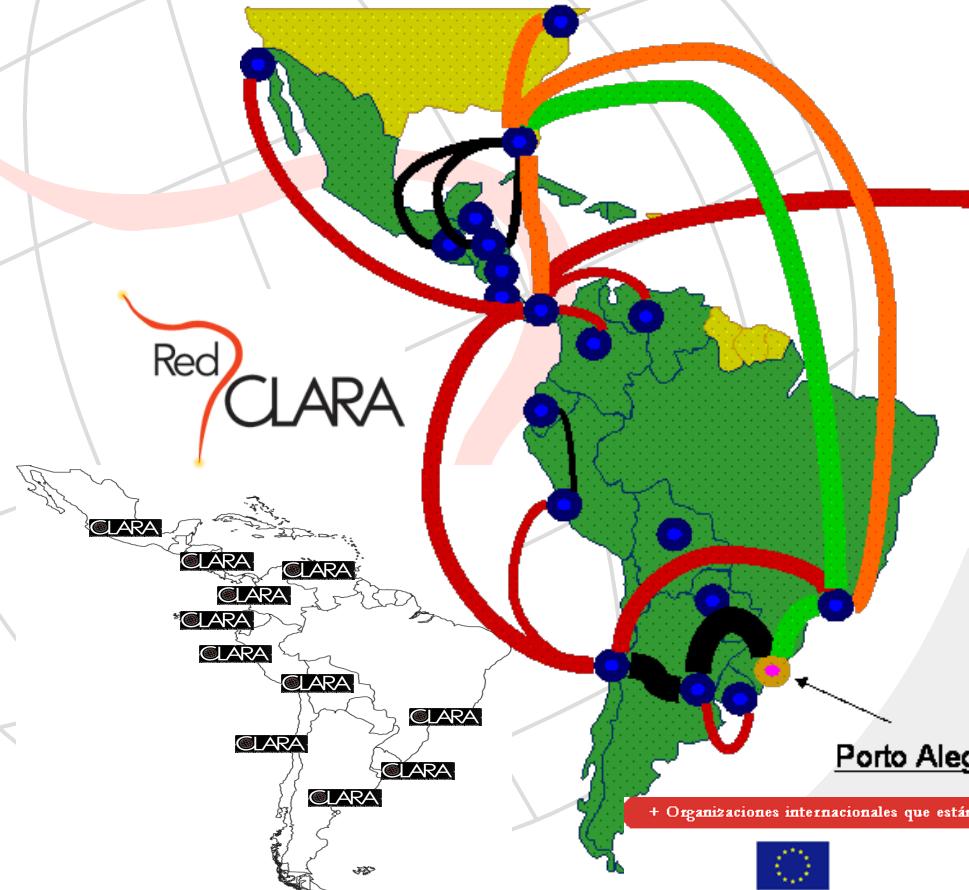
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CLARA: Cooperación Latinoamericana de Redes Avanzadas

1. Argentina,
2. Bolivia,
3. Brasil,
4. Colombia,
5. Costa Rica,
6. Cuba
7. Chile,
8. Ecuador,
9. El Salvador,
10. Guatemala,
11. Honduras
12. México,
13. Panamá,
14. Paraguay
15. Perú,
16. Uruguay
17. Venezuela



ALICE2	—
CLARA	—
RNP	—
LILA	—



User communities & Research Projects



A set of research communities (researchers, educators, students) working together in the solution of problems related to the MDG goals and actively participating in ALFA & FP7 calls.

Regional Inclusion



A network with wide (ideally full) coverage of Latin America and strongly connected with the Caribbean.

Capacity Building



A large community of well trained technicians, managers and research community leaders empowered to collaborate among them and with their European and USA counterparts in order to take advantage of the funding opportunities for joint research projects,





Early CLARA's e-Science Initiative 2008-2009

E-CienciAL Programme for Fostering the Use of the Advanced Networks in Latin America for the Development of Science, Technology and Innovation, project FEMCIDI/CLARA – OAS

Objectives

- Create and validate a strategic agenda for the development of e-Science in Latin America.
- Augment those scientific and technological working networks that are currently operating over the advanced academic networks
- Enhance the abilities of the scientific community for the identification, creation and execution of competitive projects throughout the advanced academic networks
- To create an information and collaboration system for science and technology.

Deliverables

- Survey of National capabilities and e-Science projects
- First General E-Science Dialogues of LA Academic Communities
- First e-Science CLARA Workshop and Lima Declaration
- Information System to promote cooperation opportunity through
- Identification of possible e-cooperation areas



Early CLARA e-Science Initiative 2008: The Lima Declaration

Declaración dirigida a los gobernantes de América Latina.

Reunidos en el Taller CLARA: “Agenda estratégica para la e-Ciencia en América Latina” los participantes hemos coincidido en sugerir a las autoridades de nuestros países que se realicen las acciones pertinentes para crear el “Primer Programa Marco para el Desarrollo de la Ciencia y la Tecnología en América Latina”. La experiencia de la Unión Europea que ya está en su séptimo programa marco (con un importante financiamiento), muestra que el concepto es poderoso y exitoso.

Estamos convencidos de que América Latina necesita el desarrollo de la educación y la ciencia para conseguir el progreso de sus sociedades y su verdadera independencia política, cultural y económica. Estamos convencidos también de que nuestro futuro como región depende de nuestra unidad y decisión y que no debemos esperar de otros lo que nosotros mismos no estemos dispuestos a hacer. Una postura seria colaborará sin dudas a fortalecer la relación con el resto del mundo, desde una posición de colaboración que de dependencia.

Proponemos que en la próxima cumbre de presidentes se adopte una resolución al respecto que sea seguida de la formación de una comisión técnica encargada de elaborar esta propuesta. **Lima, 7 de noviembre de 2008**



EUROPEAN UNION – LATIN AMERICA CARIBBEAN (EU-LAC) MINISTERIAL FORUM ON SCIENCE, TECHNOLOGY AND INNOVATION

Madrid, Spain, 14th May, 2010

RECOMMENDATIONS

We, the Ministers of Science and Technology of the European Union, Latin America and the Caribbean, gathered in Madrid on the 14th May, 2010,

Aware of the importance of promoting the "LAC-EU Knowledge Area" first mentioned in the Guadalajara Declaration in 2004,

Knowing that the current global challenges for cooperation in Science, technology and innovation focused on sustainable development and social inclusion will be addressed in the LAC-EU Summit in May 2010,

Acknowledging that science, technology and innovation and higher education are vital for all societies and their sustainable development, regardless of a country's size or its inhabitants' level of income,



Special focus should be given to the ICT-based Research Infrastructures (e Infrastructures for short) along two main axes:

1. Connectivity between EU and LAC in order to enable science and R&D cooperation through the improvement of the interconnection of academic networks and the enhancement of transatlantic links, through including new optic fibre cables.
2. E-Infrastructures supporting collaboration in specific research/application domains (energy, environment and climate change, agro-food and health services) by enhancing the access to and use of simulation and supercomputing facilities.

Education
..., regardless of a

The strategic approach...

- Identify most relevant research areas for LA.
- Better knowledge of groups by several means: personal visits, participation on their meetings, inviting them to CLARA workshops..
- Incentives for communities working on MDG an FP7 using RedCLARA services: COMCLARA calls
- Create a Data Base on research groups
 - Global search performed by a documentalist funded by the project reported 108 research groups
 - Agreements with CYTED, ARTCA and other agencies is permitting to identify more communities
 - This data will be part of the Research Communities Tools Database

The strategic approach

- **Work with the Applications Committee on:**
 - possible new research groups using RedCLARA present services,
 - advice for new services to be offered,
 - new financial resources and general advise on consolidating research LA communities and RedCLARA.
- **Relationships with EC, CYTED, OEI, OAS, IADB, WB and other European and international S&T Bodies for fruitful cooperation**
- **Agreements with CYTED, ARTCA and other agencies is permitting to identify more communities**



RedCLARA

Two level strategy

RedCLARA to NREN service/support for Advanced Computing needs

Promoting NREN Advanced Computational Services

NREN Awareness/training for Advanced Computational Services

NREN Service Support

RedCLARA
Two level strategy



VRC

Promoting VRC Advanced Computational Services

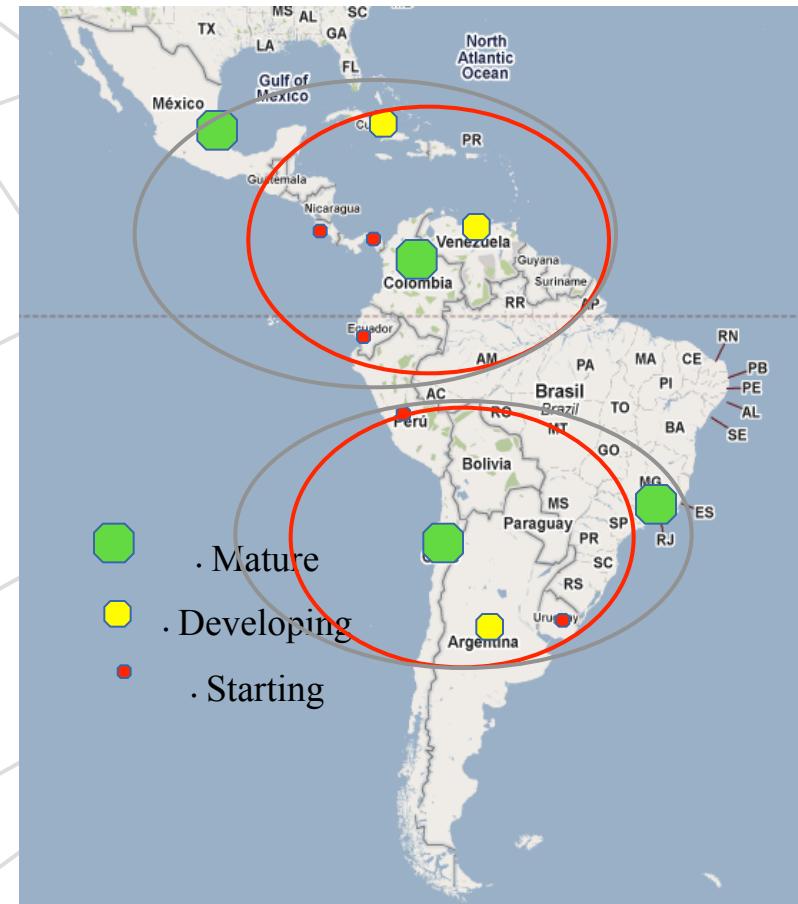
VRC Awareness/training for Advanced Computational Services

VRC Service Demand

RedCLARA to VRC service/support for Advanced Computing needs

- **Focused in two mature countries (mx, br) to promote user communities activities.**
 - Thematic virtual days
 - Community workshop (Astronomy/HEP)
 - User training-trainer Workshops
- **Focused in two mature countries (co, cl) promote support communities activities.**
 - Grid operation support and CA
 - Technical staff/taskforce
 - Grid Application support/migration
- **Focused in four mature countries (mx, br, co, cl) for external funding**
- **Focused in starting/developing countries(pa, cr, ec, ve cu)+(pe, ar, uy)**
 - Decision maker days
 - User training workshop
 - Business plan/sustainability workshop

But... the strategy is regional



Communities
Grid Operation

CLARA Identified areas for possible VRC

Health

Materials Technologies

ICT (e-Government)

ICT (Grids)

ICT (Digital Libraries)

**Energy Technologies
(Renewable Energies)**

Food

Water

Social Sciences

Biotechnologies

Astronomy

Education

Natural Disasters

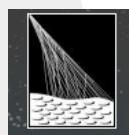
Cultural heritage (Archaeology and Immaterial Patrimony)

*Thematic Areas of scientific
papers published by Latin-
American researchers
during 2000-2008*

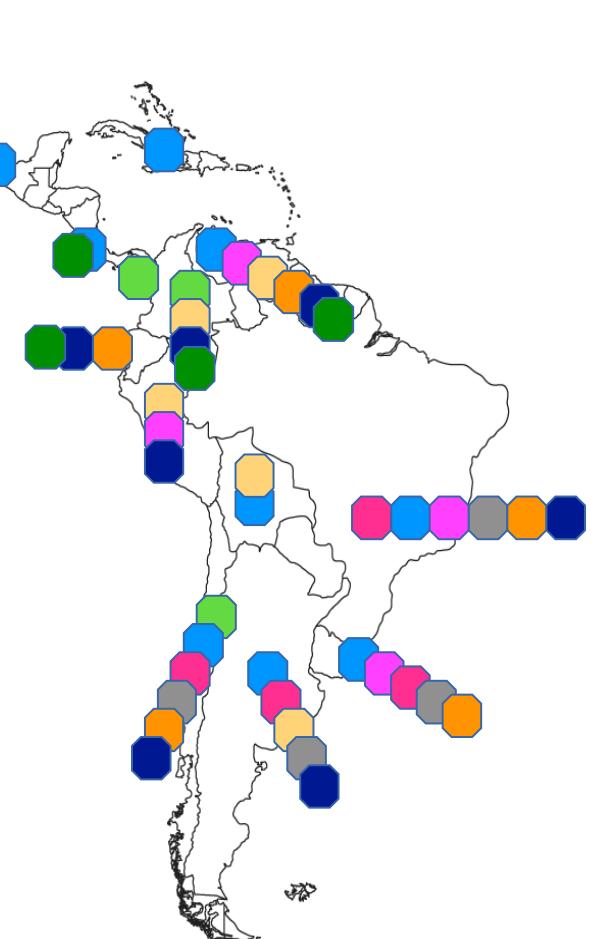
*Direct inquiry
to the NREN of
CLARA member countries*

*Comparative analysis taken from 51
thematic networks established by
the Ibero American Program on S&T
for Development, CYTED,*

Mature & Emerging LA Research Communities



- LACXSER (LATinoamerican Colaboratory of eXperimental Software Engineering Research) **6 universidades**. interested to teach to develop software through a collaborative cooperation
- ReLANS (Red Latinoamericana de Nanotecnología y Sociedad) **18 research institutions** interested to study the social implications of the emerging of nanotechnology in latinamerica
- MAYA (Red de Microorganismos, Agricultura y Alimentos) **5 research institutions** interested to build an international graduate studies (Diploma + Master)
- MCISur (Manejo Costero Integrado del Cono Sur) **7 research institutions** interested to build an international program in graduate studies (Diploma + Master)
- LAGO (Large Aperture Gamma Ray Burst Observatory) **15 institutions** building an infrastructure (detectors+collaborative platform) to detect Gamma Ray Burst at high altitude
- MAPA D2 (Mapa e Programa de artes em dança digital) **7 institutions** interested to develop a digital map of collaboration and preservation of artistic dance heritage
- LACLO (Latin American Community of Learning Objects) **7 institutions** building and sharing learning objects through a repository network
- CoLaBoRa (Comunidad Latinoamericana de Bibliotecas y Repositorios Digitales) **7 institutions** sharing contents and experiences building a network of repositories and digital libraries
- URDIMBRE (Research of the impact of TIC in education) **13 institution**



A strong, well managed,
participative and self
sustainable organization
with a clear Funding
Model for the VRC.

To develop and
consolidate a
Sustainability Model



Project Synergies

- **Database of available funding for Research and Innovation in Latin America, development funded by FEMCIDI (OAS)**
 - Database is available and working
 - Permanent population of the database being funded by ALICE2 project
- **Three new communities funded by IDB project on Strengthening the Regional Community**
 - Seismology/Tsunami alert
 - Health/Tropical Diseases
 - Renewable Energy/Bio-fuels

[Sobre Clara](#)[Ambientes de Colaboracion](#)[Oportunidades](#)[Recursos para Investigacion](#)[Busquedas](#)

Honduras será sede de la próxima reunión ALICE2/RedCLARA

Jueves, 17 Marzo 2011

RedCLARA sigue liderando esfuerzos para que Honduras forme su propia NREN y, mediante Internet avanzada se sume al impulso regional en pro del desarrollo científico y académico. En ese contexto de inclusión, el país ha sido elegido como sede de la próxima reunión semestral ALICE2 - RedCLARA, que se llevará a cabo en junio. [Leer más...](#)

[1](#) [2](#) [3](#) [4](#) [Más artículos...](#)

Capacitación

[Ver mas](#)

Comunidades

- Comunidades de Investigación: ¡Atentas! COMCLARA 2011 ya abrió
- ¿Necesita organizar una Videoconferencia? ¡Le podemos ayudar!

[Ver mas](#)

Noticias

- MCI Sur realiza taller sobre sistemas de monitoreo de la zona costera
- Llamado a presentar trabajos para LANC 2011
- GISELA divulga la Grid en América Latina
- Última semana para aplicar al programa Community Grants
- CUDI invita a participar de la cuarta temporada del Día Virtual UAT

[Ver mas](#)

Eventos

- Escuela Superior de Alto Rendimiento
- ISGC 2011
- Congreso Internacional de la Sociedad Internacional
- Path to Cloudscape III
- Primera Escuela Argentina de GPGPU

[Ver mas](#)

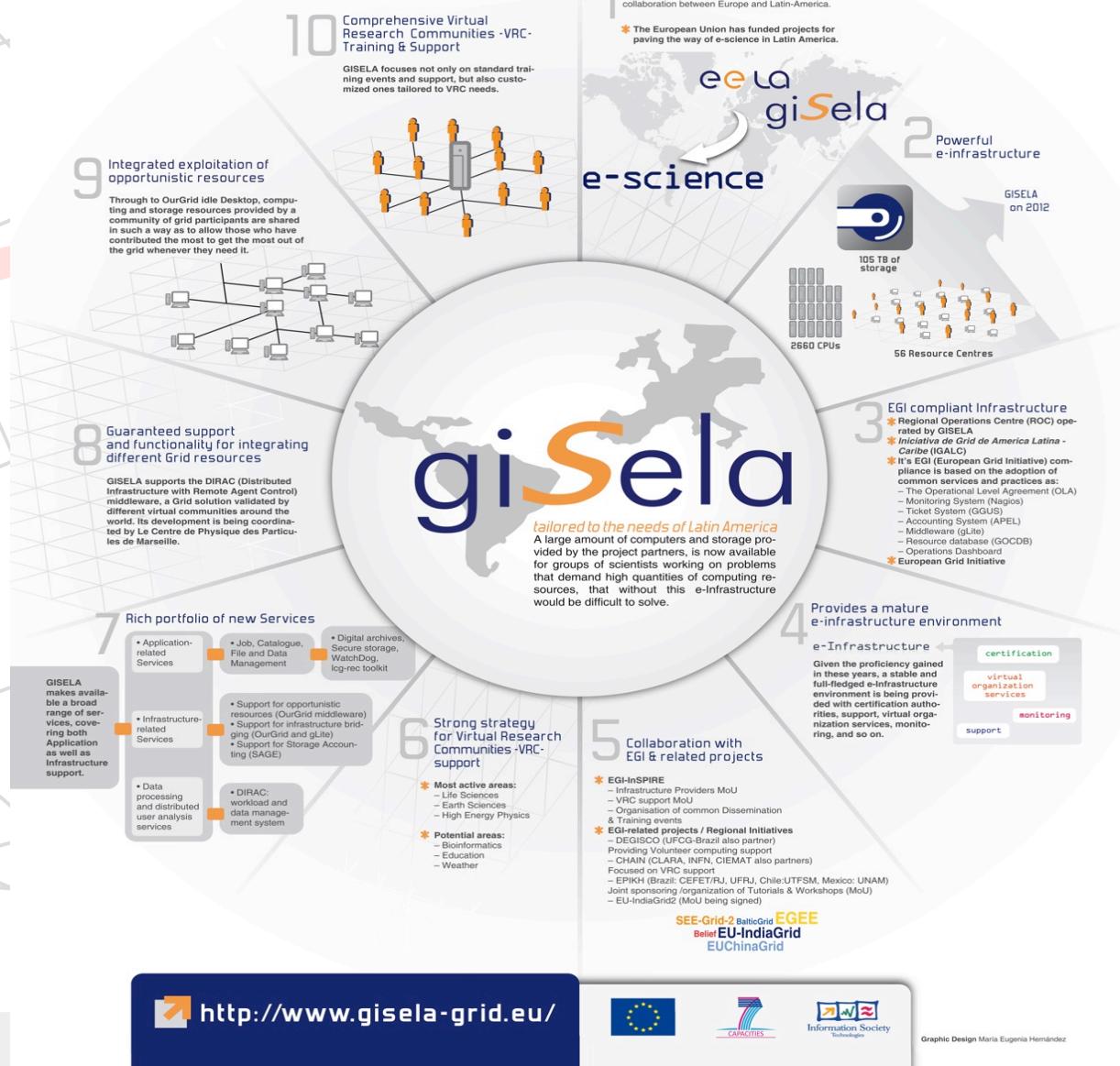
RedCLARA Portal

- **Focused on Service to Communities**
- **One stop shop for**
 - Webconference (VCEspresso)
 - Videoconference (SIVIC)
 - Content Management (DSpace)
 - E-Learning System (Moodle)
 - Video on Demand (RedCLARAVé)
 - Web 2.0: Wikis, Blogs
 - Researchers/Funding opportunities/Partner search
 - News, Agenda, etc
- **Unified authentication**
- **Launched: March 28**

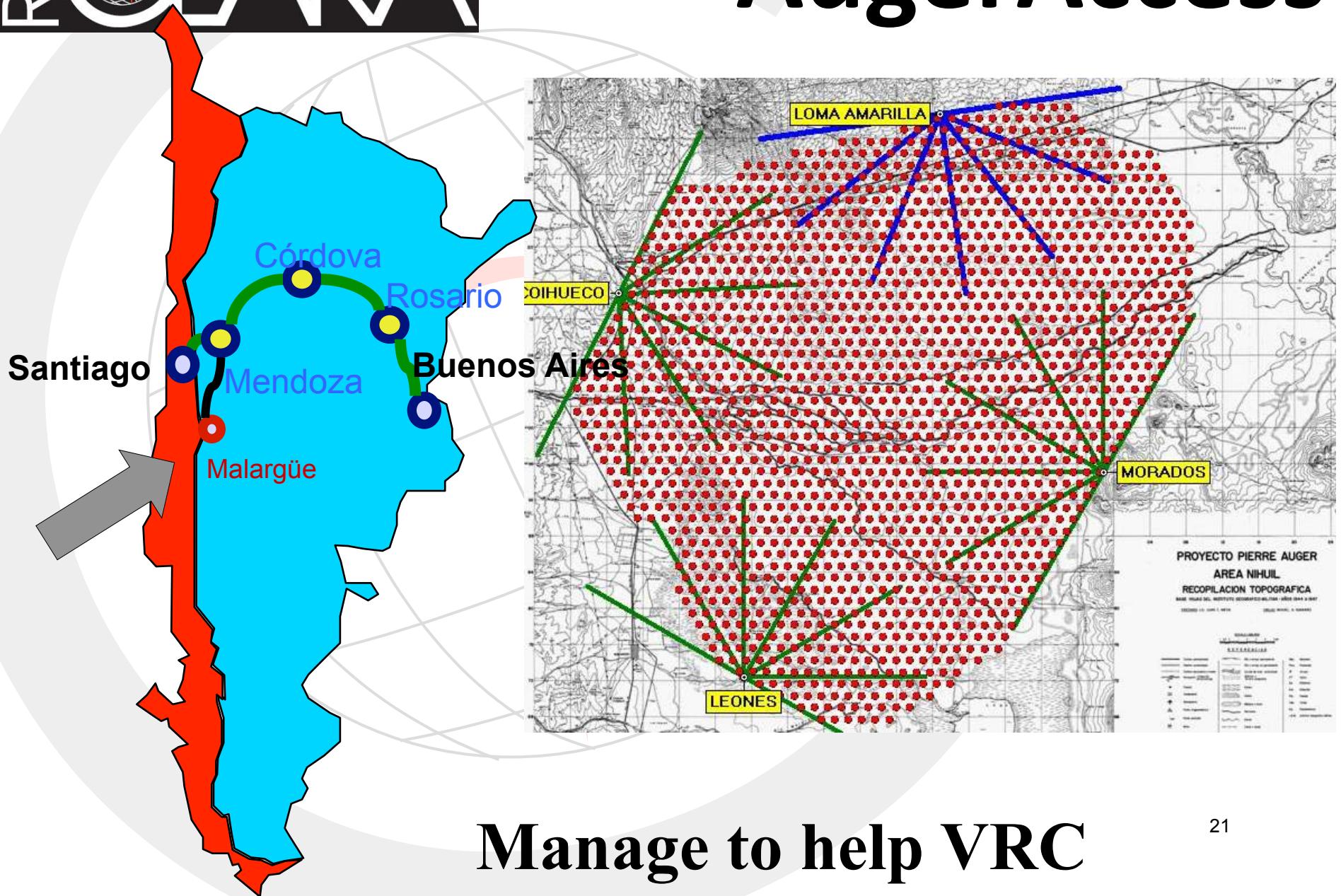
<http://redclara.net/>

Grid Initiative for e-Science virtual research communities in Europe and Latin America

10 Good Reasons to become a giSela User



AugerAccess



Red

ONERA



NORTE GRANDE

NORTE CHICO

CENTRO

Arica
Iquique

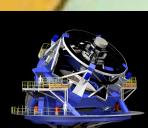
Calama
Antofagasta
San Pedro de Atacama

Copiapó

Isla de Pascua

La Serena
Coquimbo

Vina del Mar
Valparaíso



Larga Distancia : 1373Kms
Tramo Local : 115Kms

474Kms

NORTE GRANDE

NORTE CHICO

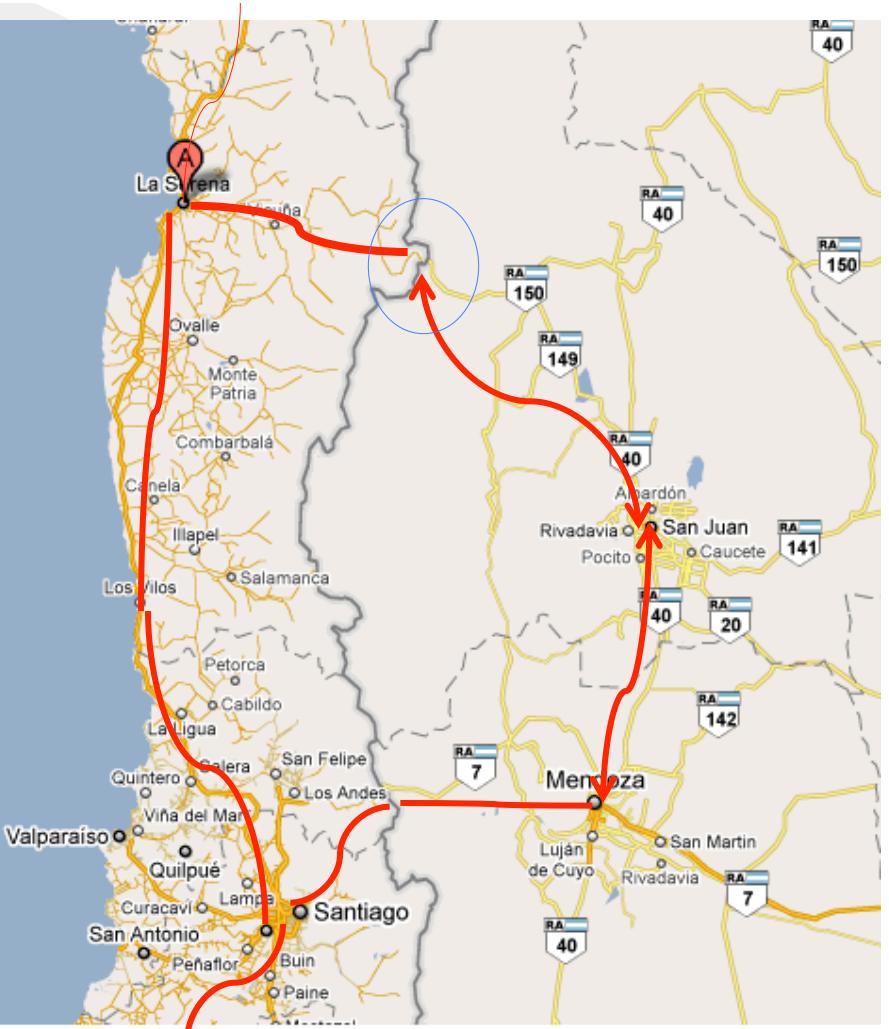
CENTRO

SUR

PATAGONIA NORTE

PATAGONIA SUR





Chile TelCo are looking for
a backup ring



TelCo.ar

INNOVA|RED
Red Nacional de Investigación y Educación de Argentina

TelCo.cl



First meeting 26th of April





¡GRACIAS!

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