



Clara

**Cooperação Latino-Americana de Redes Avançadas
Cooperación Latino-Americana de Redes Avanzadas**

AMPATH Workshop – January 2003 – Miami, FL



Objectives

- To join Latin American NRENs.
- To promote development of Academic & Scientific Networks where they lack.
- Planning and Deployment of a Regional Network
- To enable collaboration with other similar initiatives
- Open to every LA&C country.

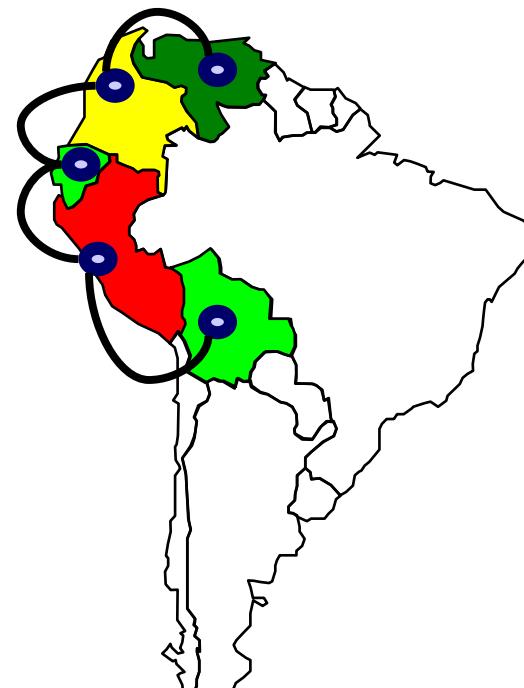


Some history

- A strong “human network” with 10 years of collaboration among LA countries
 - ENRED: information and opportunities sharing
 - WALC: 5 years doing technical training and regional politics analysis
 - LACNIC: successful initiative from LA participation in ICANN



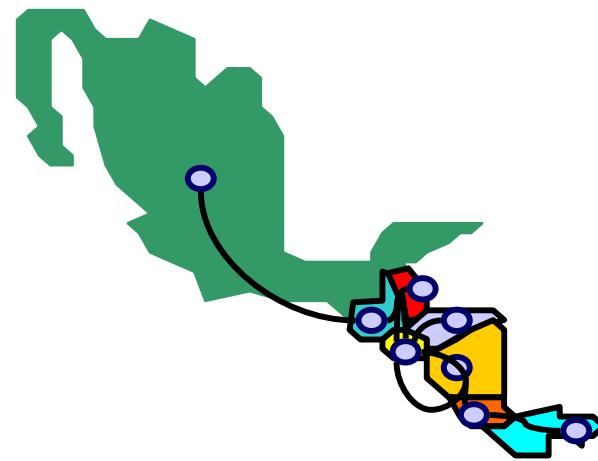
The “Pacto Andino” Network



- Active Planning during 1996
- No activity at present



RedHucyt: Central America and Caribbean

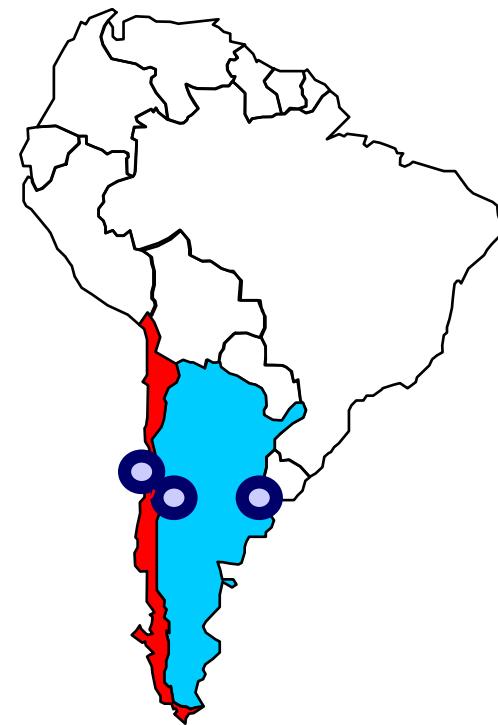


- **Supported by OAS up to 1998**
- **Currently Inactive**



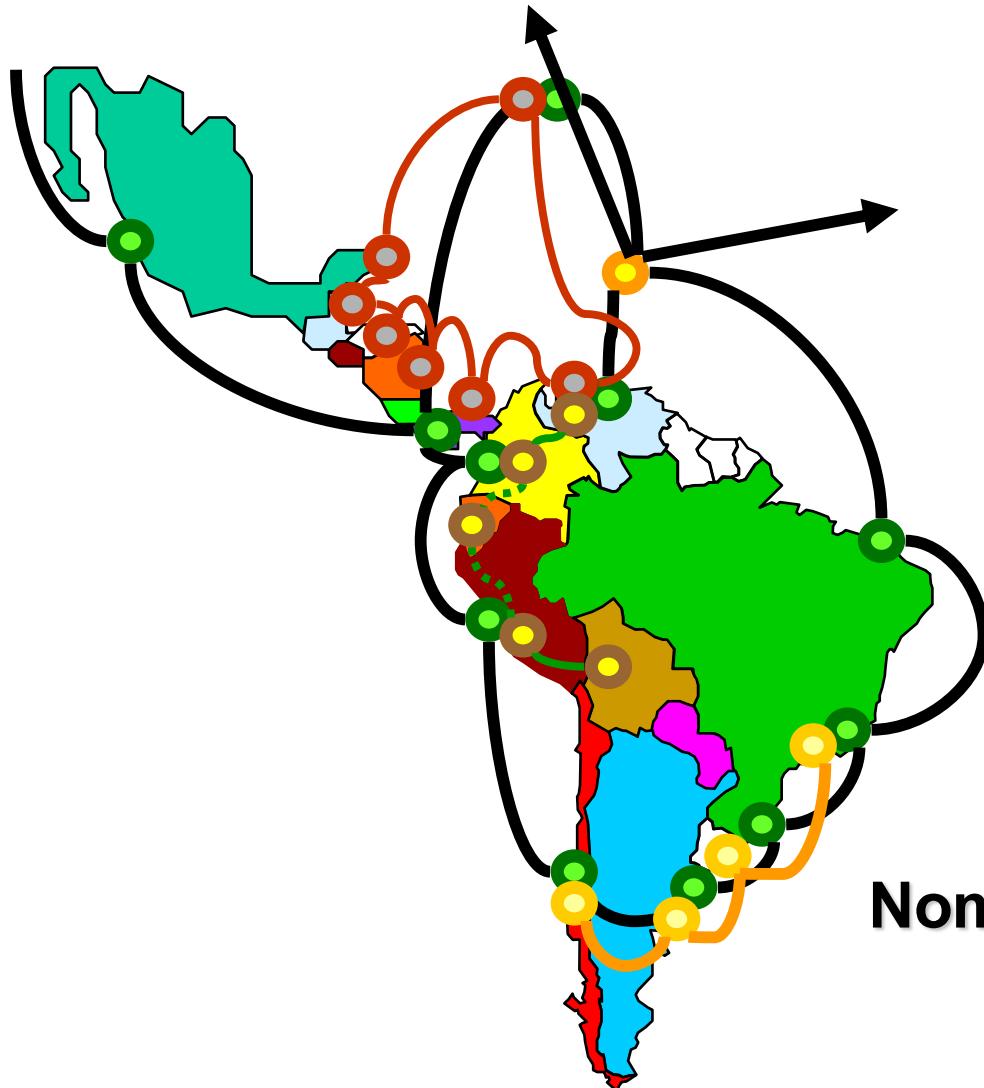
Argentina-Chile Connection

- Supported by Fundaciones Andes & Antorchas up to 1997
- Currently Inactive



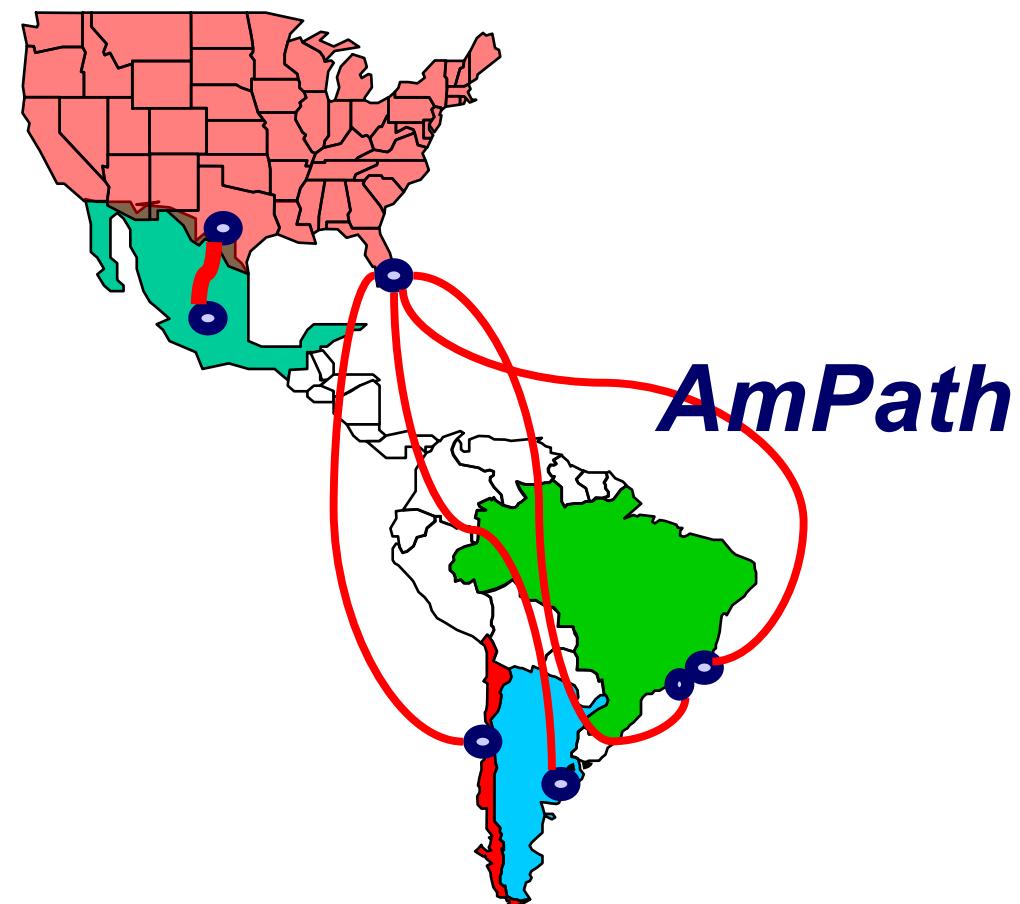


Cable Infrastructure in Latin America





Present I2 Connectivity in LA Countries





Global Crossing Infrastructure to build up AMPATH.





AMPATH's facilities

- Access to Abilene (Internet2)
- Access to Startap and transit to Europe, Canada & other Advanced Networks
- Active since 2001 for Chile, Brasil and Argentina.





AMPATH's achievements

- Initial boost for Advanced Networking in LA
- Stimulus for advanced connectivity inside each country
- Motivation for collaborative projects
- Connectivity needs, delayed till now due to high costs, being solved



Other Initiatives...

- @LIS: Alliance for the Information Society
 - 62.5 Million Euros for EU-LA on Information Society Issues
 - 10 Million Euros for Interconnecting Europe & Latin American Researchers
- CAESAR: Connecting All European and South American Researchers.



...Other Initiatives

CAESAR:

- Promote regional connectivity
- CAESAR Workshop 2002 in Toledo became CLARA starting point
- Feasibility Study proved that budget enables to establish advanced connectivity to all LA countries



CLARA features

- Open to all LA Countries
- CLARA is beyond the boundaries of @LIS/CAESAR
- Connecting LA to Europe and other regions
- Cost to connect to the backbone will be the same for every country at equal bandwidth
- Optimizing LA participation in AMPATH and strengthen connectivity to I2



CLARA Members

- Argentina
- Brasil
- Bolivia
- Chile
- Colombia
- Costa Rica
- Cuba
- Ecuador
- El Salvador
- Honduras
- Guatemala
- México
- Nicaragua
- Panamá
- Paraguay
- Perú
- Rep. Dominicana
- Uruguay
- Venezuela



CLARA Activities

- May 2002: Brussels @LIS Interconnection Initiative Launched
- June 2002: EU-LA Meeting in Toledo. *Toledo Statement signed.*
- July 2002: LA Networking Initiatives meet in Rio. CLARA agreement established.
- September 2002: Coordinating Committee of CLARA meets in Buenos Aires
- September 2002: CLARA & ICT TF meeting in Rio.
- November 2002: EU-CLARA meeting in Santiago



NRENs require:

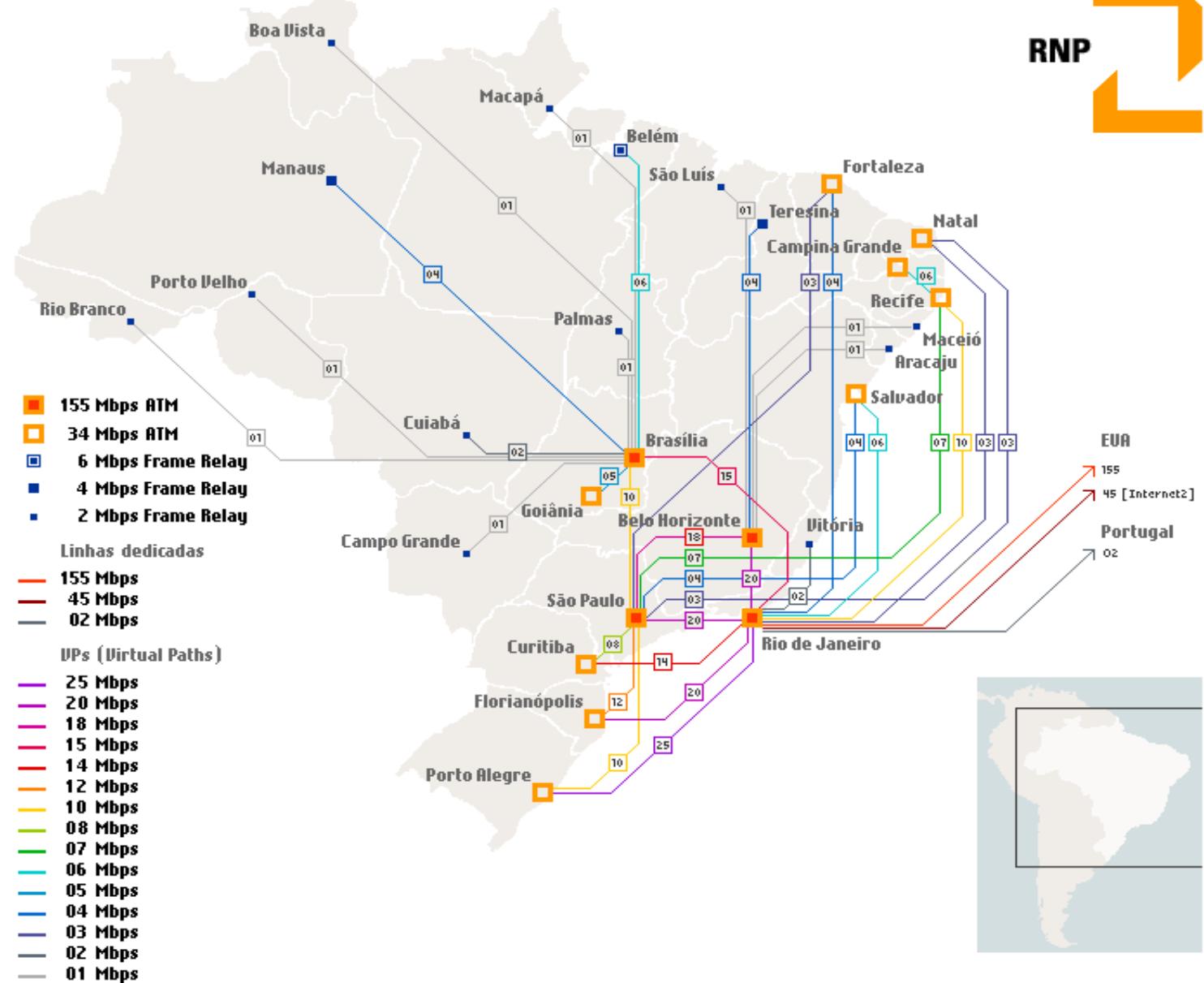
- Routing from the national backbones through Internet2 and other Advanced Networks should be transparent to the user.
- Strong and long-lasting organizations providing service to users.



LA NRENs Connected to Internet2 and Advanced Networks

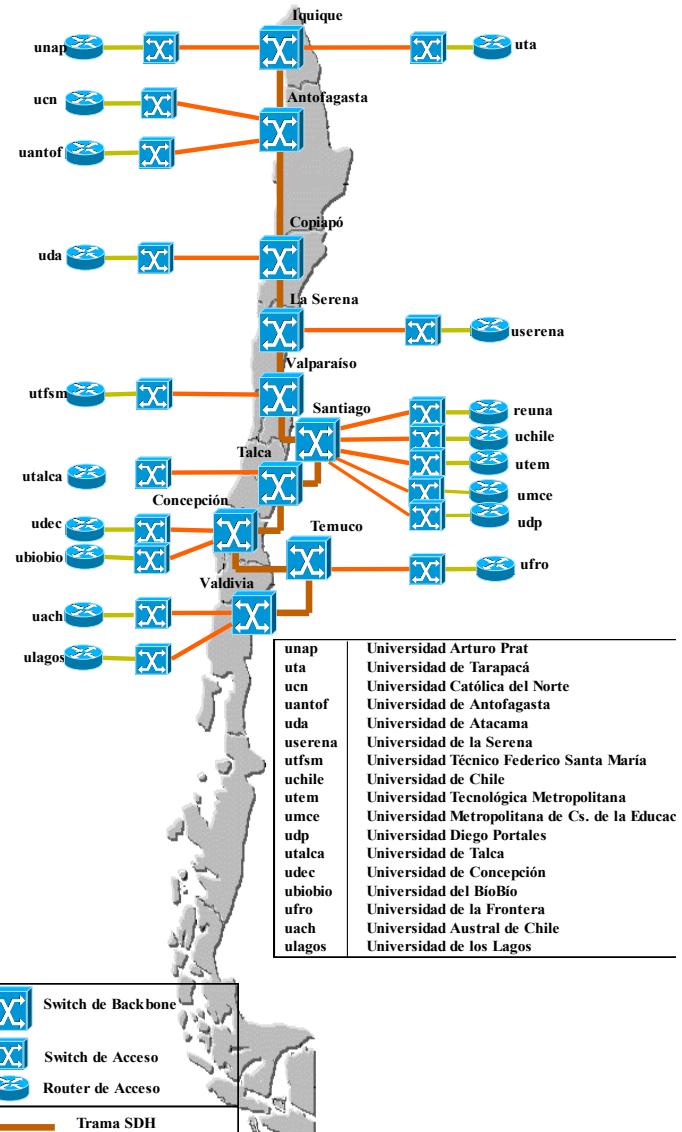


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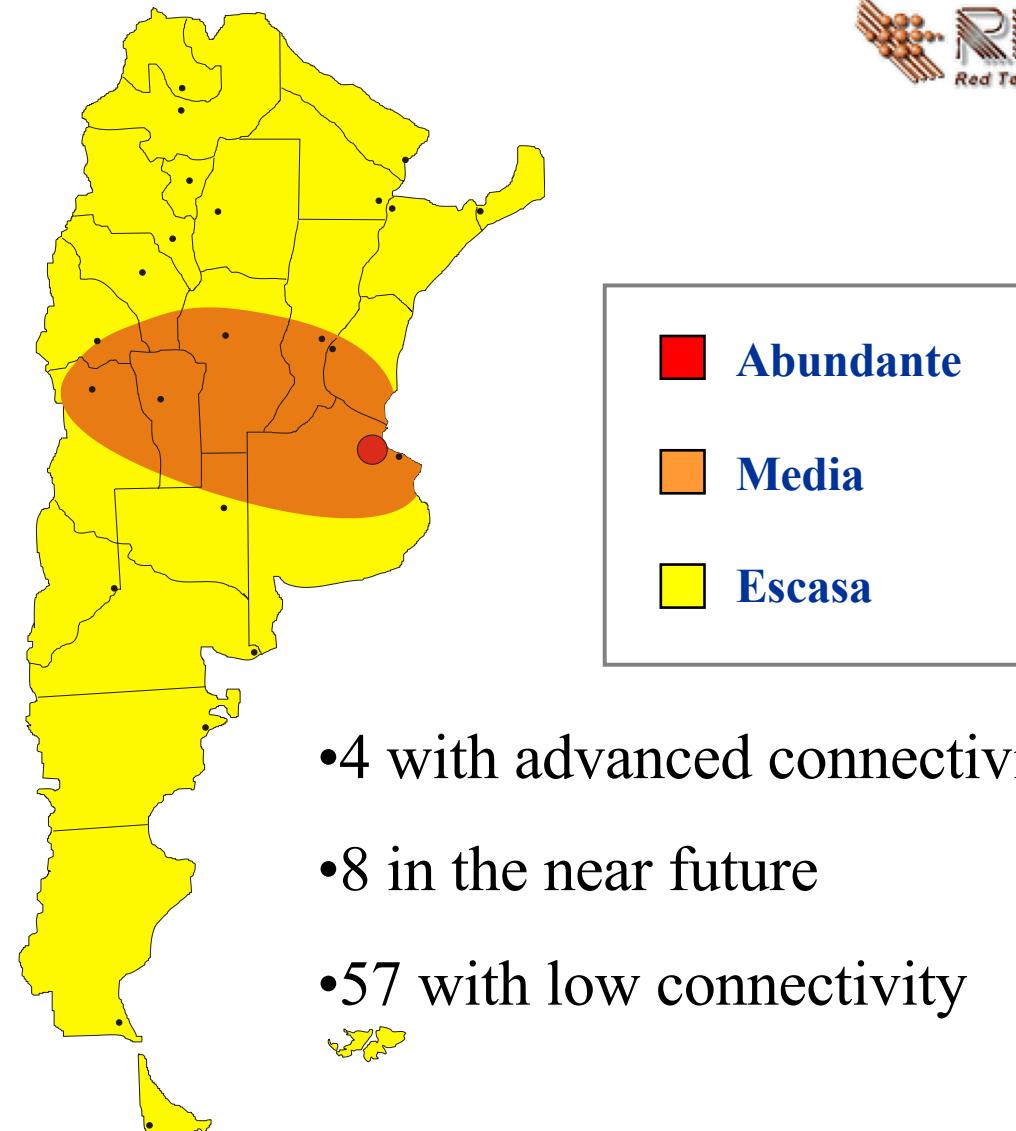




REUNA







- 4 with advanced connectivity
- 8 in the near future
- 57 with low connectivity



Proposed Topology for CLARA's backbone





Backbone Time Table

- January 2003: technical definitions
- March 2003: Open bid for provisionning of capacities and equipement
- June 2003: Contract(s) assigned
- September/October 2003: Phase I established



CLARA: an opportunity

- ...for Science, Technology and Education: a tool for collaboration and new applications development.
- ...for TELCOs: demand growth and new services
- ...for Governments: development seed and global integration.



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