RESPONSE TO CORONAVIRUS FROM THE LATIN AMERICAN RESEARCH AND EDUCATION NETWORKS

An outline report on the impact of collaboration.
UNITED AGAINST CORONAVIRUS

The National Research and Education Networks (NREN) of Latin America, together with RedCLARA, are coordinating actions to support our member organizations and the health authorities of our countries in the fight against the Coronavirus (Covid-19). The capacity of our networks supports Universities and Research Centres that are vital in the fight against the disease, and they count on our unrestricted support in this circumstance.

Check out our support initiatives and get the information you need in order to access them.
About RedCLARA

- Creation: 2003 in Valle del Bravo. 13 Latin American NRENs
- History of successful cooperation with Europe (12 projects funded through the EC: Alice, Alice2, Elcira, Magic)
- International NGO organization with headquarters in Montevideo, Uruguay.
- Cooperative DNA.
- Organization:
  - Assembly of Members.
  - Board of Directors
  - Offices in Montevideo, Santiago and Bogotá
Collaborative Approach
Scientific Collaboration

Optimised for research data transfers

Public Internet

Geneva to Canberra

GEANT and R&E partners

Geneva to Canberra GEANT + R&E networks US to Australia

R&E networks are designed for different goals than Internet

Comparative Times for a 100TByte data transfer.

<table>
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<th>File Size (TB)</th>
<th>Data rate (Gbit/s)</th>
<th>Time taken (hours)</th>
<th>Time Taken (Days)</th>
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<td>NREN</td>
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<td>9.27</td>
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<tr>
<td>ISP A</td>
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<tr>
<td>ISP B</td>
<td>100</td>
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</table>
high performance computing
RedCLARA and its partners helping to publish and reference scientific data
LA Referencia gives visibility to the scientific production of higher education and research institutions in Latin America, promotes open and free access to the full text, with special emphasis on publicly financed results.

**WE DEVELOP HARVESTING TECHNOLOGIES**

**WE OFFER GUIDELINES AND METADATA HARVEST**

**WE BOOST INTEROPERABILITY AGREEMENTS**
SCALAC, REDES ACADÉMICAS LATINOAMERICANAS Y REDCLARA

brindan capacidad de procesamiento gratuito para estudios relacionados con el COVID-19

Más información
United against Coronavirus

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This contribution is part of the collaborative actions that the National Research and Education Networks (NREN) of Latin America are coordinating, together with RedCLARA, to support our partner institutions in the fight against the Coronavirus (COVID-19).

For more information about this or other free services to face the situation that plagues us due to the
THEMATIC COMMUNITIES / WORKING GROUPS

- Education in Digital Age
- Climate Change
- HPC – Advanced Computing
- Health
  - RUTE L.A.
• More than 20000 Video Conferencing licences made available to the Community.

• Support to more than 70 universities, mainly in Central America and Mexico.

• Innovative solutions in each of the networks.

• Webinars to guide the community with topics of:
  • Covid-19
  • Virtual Education
  • Webinar with GEANT-Europe (Dealing with COVID in the European R&E Community)
  • Online Telehealth Solutions (CEDIA, REUNA) (https://coronavirus.udec.cl)
  • Health Centers Connectivity Support (RNP) – 16000 basic health units connected.
• Development of low-cost ventilator solutions at member universities (RAICES El Salvador)
• Provision of Moodle cloud platforms for Universities.
• Other health projects: Echo Project at CEDIA Ecuador
• Supporting other organizations to develop their events online. Includes TICAL2020, AmeriGEO Week, IDRC Workshops and others.
SOME CHALLENGES

• Connectivity available in some countries.
• A regional public good managed by a non-governmental organization, this generates little capacity to generate the required investments with only the contributions of the member networks. Public policies are needed in this regard, both for the national networks and at the regional level.
• Many more resources are required to have cloud capacities that can support the development of many of these initiatives.
• Geolocation resources are required for multiple pandemic monitoring issues (contact ESRI)
• How can we move forward with projects like the one in Central America?
SOME CONCLUSIONS

• The impact of Covid has generated an important impulse to promote the digital transformation in the region.

• There will be no return to normality, a new standard will surely be generated.

• This opens up enormous opportunities for us to collectively generate a transformative process in Universities and Research Centres.