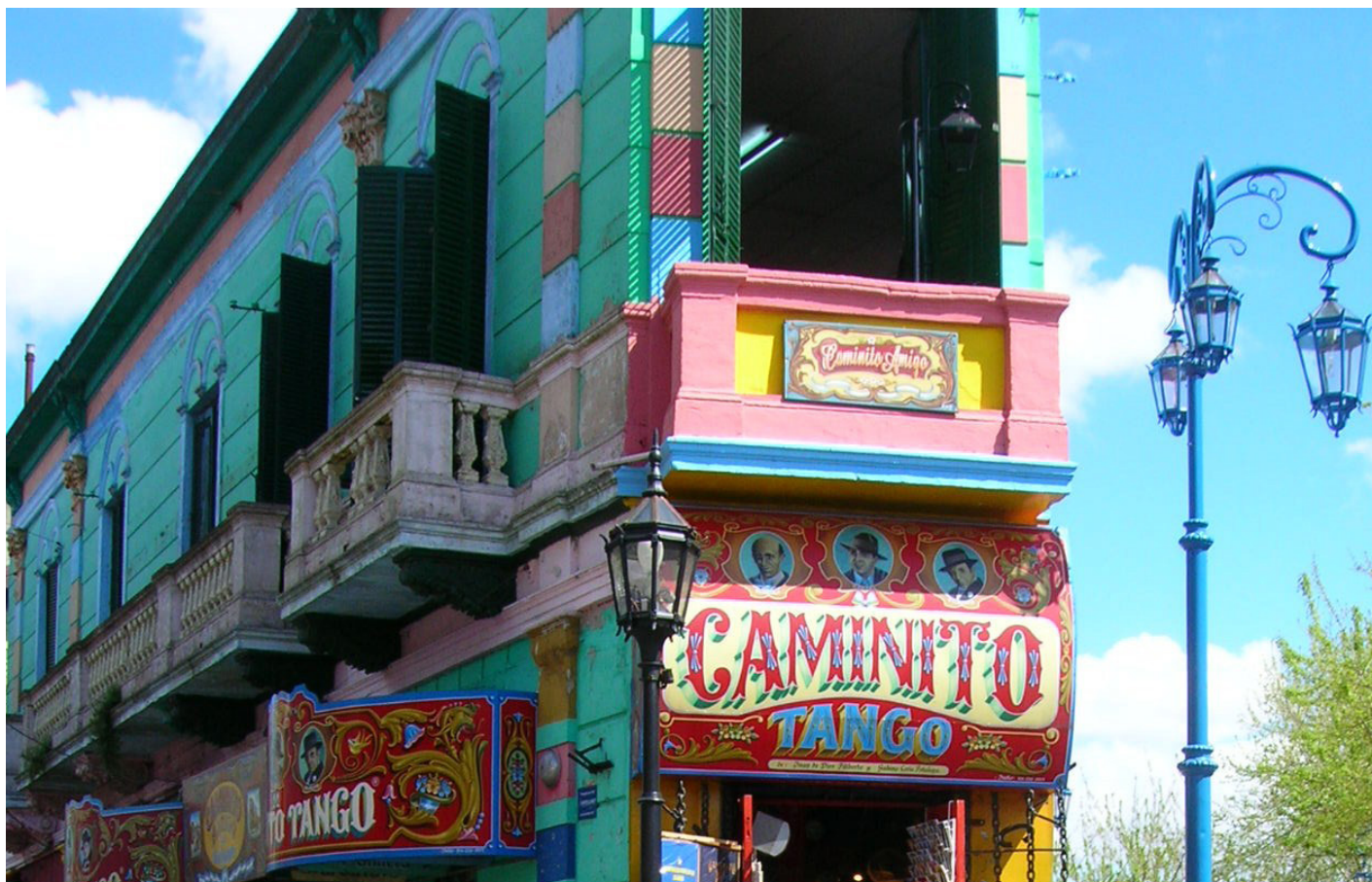


DECLARA

Bulletin

Year 12



RedCLARA quadrupled the capacity of its backbone

Chile will invest 100 million dollars in undersea optical fiber

Buenos Aires, 13 - 15 September: TICAL2016 opens its call for papers

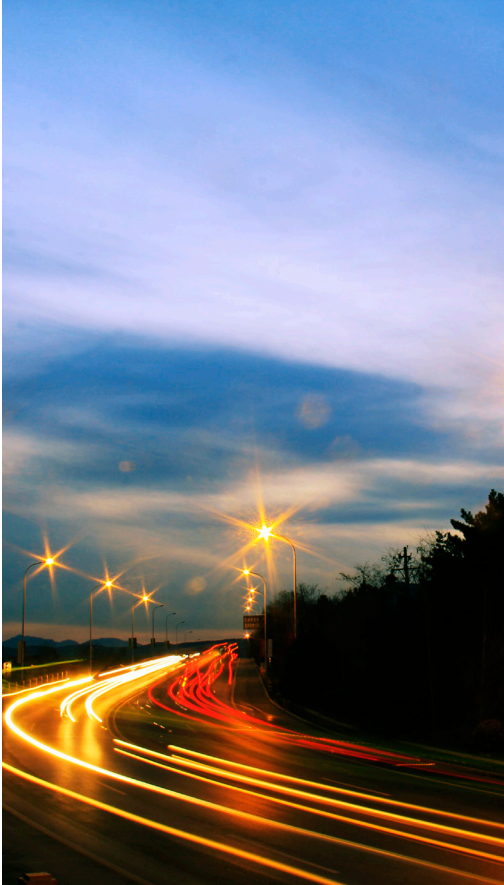
11 months of MAGIC

Costa Rica launches national open access repository

School of Networks reaches Ecuador

n° 45

March 2016



RedCLARA:

A clear path for your data

We empower your research and developments

RedCLARA interconnects the national advanced networks in Latin America and connects them with all the networks in the world, giving Latin-American scientists, academics and researchers an infrastructure that allows them to effectively collaborate with the global scientific community..

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Carmen Gloria Labbé

Deputy General Manager

RedCLARA

Montpellier, a university city, an industrial and scientific pole of Southern France, was the place that in 2014 hosted a group of people to think of a project to support the dialogue between Europe and the research and education networks, with a focus on Central and Eastern Africa promoting cooperation through the exploitation of interconnection between the pan-European research and education network (GÉANT) and the African regional networks. A challenge known in RedCLARA from the experience of the ALICE2 project, in which an important part was aimed at strengthening research communities in Latin America and to promote the cooperation of them with their peers in Europe.

So in that meeting we offered to share our experience with Africa by means of the TANDEM project (TransAfrican Network Development) name with which we named the initiative submitted to the European Commission call H2020-INFRA-SUPP-2014-2.

TANDEM is built around three pillars. The first is dedicated to build a platform for the dialogue with interested agencies. The second, focused on generating awareness among users of the network and to identify their requirements in terms of applications and services that the advanced networks can provide. The third pillar is dedicated to the creation of communities and



Editorial

strengthen the relationship between them and national networks that are part of WACREN (West and Central African Research and Education Network). Here it is where RedCLARA is doing a substantive work on three tasks:

The transfer of Colaboratorio in order to make it the platform that will ensure a sustainable and effective exchange of information between WACREN, its partner national networks, public policy makers and end users.

Help in the organisation of workshops with the communities that are supporting the work of WACREN, such as the focal -points community - contact points between end users and the networks -, the networks directors, and the interested agencies.

Support the incubation of communities, particularly the research community in food security, which involves the formation of the community, working with them in order to organize a collaborative work, training in the use of the Colaboratorio and of its applications.

Undoubtedly, this experience is a great challenge that fills us with satisfaction, mainly because we are transferring a valuable expertise gained over all these years, in addition to transfer our collaboration platform, overstepping, thus, the borders of our region.

To collaborate is mandatory in the current scenario, and the participation of RedCLARA in TANDEM and as the leader institution in MAGIC is the recognition of this, the key that will allow all the regional networks and all the national research and education networks, to fulfill our mission of promoting the development of science and research globally.



Buenos Aires, September 13 to 15:

TICAL2016 opens its call for papers

Buenos Aires is a beautiful and welcoming, attractive, seductive, alive city. Walk through La Recoleta, San Telmo, Caminito; soak in the beauty of its bookstores, visit the Mothers of the Plaza de Mayo, walk to get to Tortoni to breathe the best of the bohemian history of the city of Borges and enjoy a good coffee with the best "medialunas" is an unforgettable experience.

And it is precisely Buenos Aires the city that will receive the sixth edition of the TICAL Conference, which is going to be hosted by InnovaRed. The call for authors/papers it is now open!

María José López Pourailly



To be held between September 13th and 15th of 2016 in Buenos Aires, Argentina, TICAL2016 - the Conference of the Network of Directors of the Information and Communication Technologies (ICT) in Latin American Universities - has now opened its call for submitting papers around the seven thematic axis defined by the Programme Committee of the event. The closing date of the call is dated for June 15th of 2016, at 24:00 GMT. The papers must be submitted as Word documents and in strict alignment to the format established by the TICAL2016 Guide for Authors to the email tical@redclara.net. TICAL2016 is organised by RedCLARA in collaboration with InnovaRed.

Incentive

For each one of the papers selected by the Programme Committee for its presentation at TICAL2016, and to ensure that presentation, the organizers will bear the cost of airline tickets (round trip to Buenos Aires) to one of the authors of each paper.

Thematic Axis

The sixth edition of TICAL, to be held from September 13th to 15th of 2016, in Buenos Aires, Argentina, is seeking for papers in the following thematic areas, chosen from an analysis of the current situation and trends in the area.

ICT solutions for education: use of ICT in the building of personal learning environments (PLE); use of mobile devices in teaching; LMS platforms (new versions and features of the platform, blended learning, open massive courses); data analysis technics to support learning and student monitoring; repositories of educational open resources, technological development of gamification tools to support learning; concrete experiences in the redesign of learning spaces using innovative technologies (markspace, inverted classes, immersion rooms, laboratories, etc); technological solutions in order to facilitate the teaching with students with special capacities in the university (hearing and visual loss, etc.)

ICT Solutions for Research Support: scientific visualization; machine learning (technology on neural networks); simulation tools, collaborative environments to support research; management and distribution of specialized software; development of solutions in HPC (High Performance Computing); knowledge management (repositories, digital magazines), scientific data management; data mass storage services; cloud services to support research; advanced network services as support for research processes; access to science gateways through advanced networks and their use to research; remote instrumentation.

ICT Solutions for Management: collaborative tools applied to the teams who are responsible for institutional management; ICT solutions to enable the integration of traditional processes in innovative ways; data analysis systems to support the university management decisions (business intelligence, Analytics, big data, machine learning); support to the operational processes with innovative technologies (identification, access control, control

of resource use on campus, among others); methodologies and solutions to support the integration of institutional data; experiences and best practices in the identification, evaluation, acquisition and implementation of applications for institutional management; new methodologies and architectures to support the development of software applications.

ICT Solutions for Extension and Linking with the Environment: continuous improvement projects, technological solutions to facilitate the inclusion of communities with special needs in the university, or in support of social inclusion; ICT services extended beyond the campus; University participation in smart cities projects; environmental and energy sustainability, etc; solutions for event management; ICT solutions to support the social responsibility of the university (RS); technological waste management; the IT role in the measurement of the university carbon trail.

Administration and Governance of ICT: implementation of best practices in the management of ICT in aspects such as structure, organization and HR (policies, development and retention of talent), calculation and service cost management, process management, monitoring and metrics (what to measure, how, quality indicators, high availability); implementation of successful schemes in project management, innovation management, ICT knowledge management, management of data centers, providers management; definition and implementation of the Green ICT strategy; integration of institutional authorities in the definition and implementation of information security programs successfully; experiences that allowed the maturity of ICT governance in the institution.

Infrastructure: software and virtualization technologies to the efficient management of ICT infrastructure such as networks defined by software (SDN), Network Functions Virtualization (NFV), Data centers defined by software (SDDC); resource virtualization technologies such as; processes of adequacy and network management to support BYOD**, impact of mobility**, immersion rooms** and high-quality video conferencing**, wireless networks (internal and external WiFi solutions, new technologies such as Wireless Sensor Networks - WSN, Mobile Ad hoc Networks - MANETs, Vehicular Ad hoc Networks - VANETs, among others); identity solutions (single sign-on and mobility); storage solutions; public and/or private clouds**, integrated into the infrastructure; high performance computing (HPC); ecological sustainability criteria in the procurement of ICT (Green IT); outsourcing services; infrastructure projects for intelligent campus; impact of projects of Internet of Things (IoT) in the campus infrastructure; identification of new demands on data centers and their solutions; new methodologies and architectures that support the development of software applications.

** The concepts of "cloud", mobile devices and "BYOD", mobility, "high-quality videoconferencing" and "immersion rooms" are related to infrastructure, but as long as they are related to other axes, they should be subscribed in these.

Information Security: risk management; solutions for access management; implementation of unified identity projects; security systems context-sensitive; self-protection applications; implementation of international standards; security management





and management of data; legal aspects in the provision of ICT services to the university and the protection of privacy; security in cloud services; Relevant aspects to consider in the incorporation of social networks; planning and safety management (good practices, safety guard, actions of awareness and user capacitation, among others); guard of the intellectual property of digitized information.; DMZ implementation for higher education institutions.

Important

Se espera que los trabajos presentados en cada eje temático se centren en el uso de TIC y en cómo su uso o incorporación ayuda a resolver los problemas que las universidades de la región están enfrentando. En la selección de los trabajos, algunos conceptos son particularmente privilegiados. Estos son:

Experiences: the submitted works must have a strong focus on experiences, since TICAL is a Conference for sharing this kind of matters. There is no interest in scientific or merely academic papers.

Projects or services: TICAL seeks papers that describe executed or implemented services, not just ideas or proposals that have not yet left the drawing board.

Focus on ICT: TICAL gathers those who are responsible for the ICT in Latin American universities. Hence, the Conference is looking for papers with focus in this area.

Impact on university strategy: It's considered a very significant value the description, in case that is its approach, of the impact of a technologic solution on the strategy of the university.

Classification by thematic area: Authors should indicate the main axis on which are presenting their work. It is possible to choose a secondary axis in the case that the work includes more than one.



Important Dates:

2016 Call opening: March 14th, 2016

Call's Deadline: June 13th, 2016

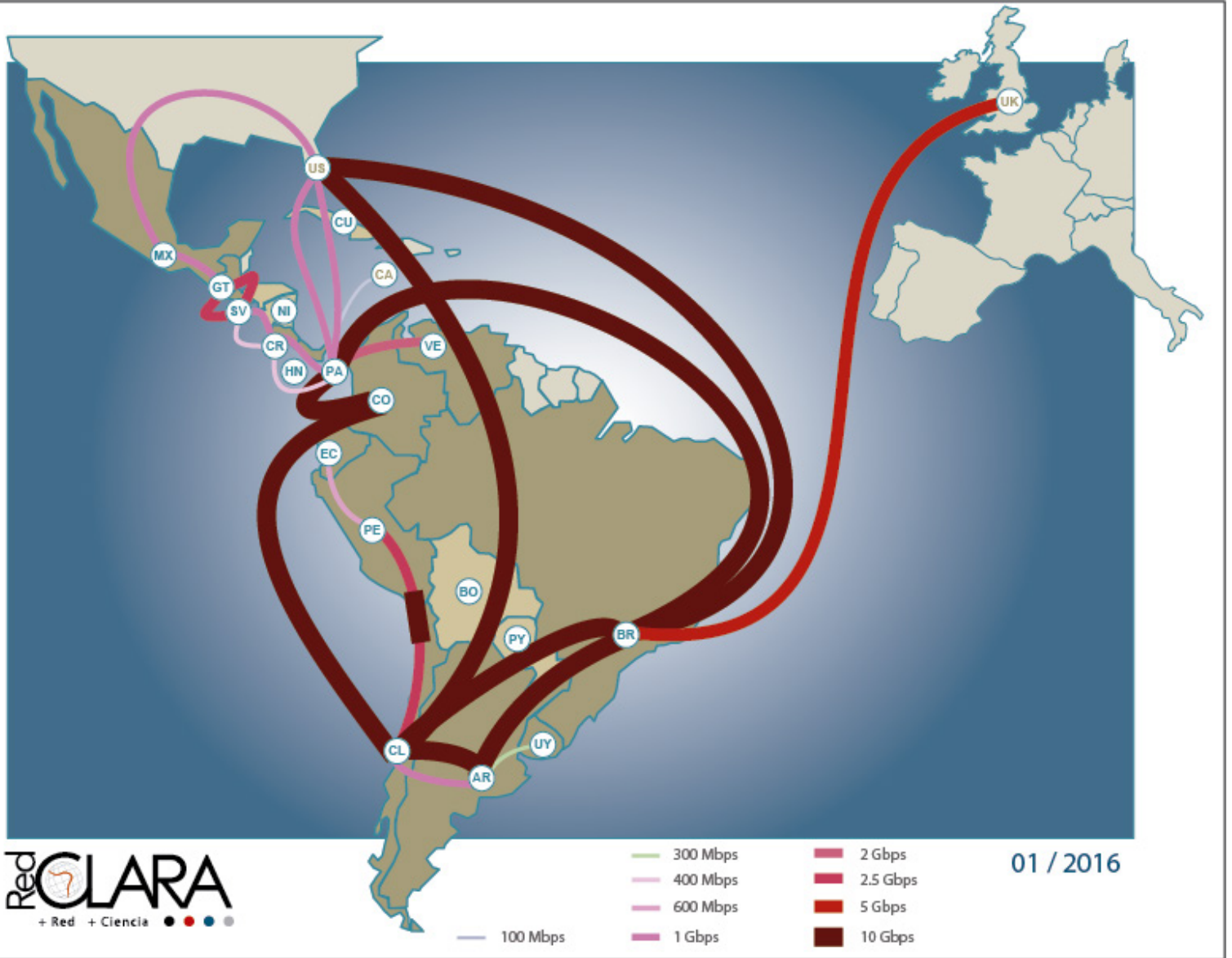
Consultations: Until April 13th, 2015, through the e-mail tical@redclara.net

Announcement of the selected papers: July 29th, 2016

Conference: September 13th to 15th, 2016

TICAL2016 website: <http://tical2016.redclara.net/>





RedCLARA quadrupled the capacity of its backbone

Based on the new 10Gbps links activated during the second week of January 2016, RedCLARA increases four times the capacity of the central ring of its backbone.

María José López Pourailly

The change in the backbone capacity from the 2.5 Gbps between Santiago (Chile), Panama (Panama) and Sao Paulo (Brazil) to 10 Gbps links between Santiago, Bogota (Colombia), Panama and Sao

Paulo, was accompanied by the back-up of the duplicates roads for Bogota and the increasing of the capacity of the Uruguayan connection, which was completed on January 21.



11 months of MAGIC

Under the title of Middleware for collaborative Applications and Global virtual Communities, the MAGIC project started its two year race in May 1st, 2015, and with the participation of 19 NRENs and RENs from all over the world, and the powerful commitment of their representatives, translated into many hours of work, after 11 months the project results certainly demonstrate that the only way of growing together is by collaborating.



María José López Pourailly, Camila Caicedo and Luiz Alberto Rasseli

One of the project objectives was to establish a small set of relevant user communities working on areas/topics that are of high interest in a significant number of world regions. So far four Global Science Communities (GSC) have been raised, one in e-Health, other in Biodiversity, one on Environment and finally one on Remote Instrumentation. Each one of these GSC had its first virtual meeting during last February, introducing their objectives and action route to all the interested scientists all over the world.

"With MAGIC, we are developing some standards that allow the integration between applications designed in education and collaboration, and with these groups we are proving its effectiveness. In addition, the 'magic' is the fact that we have a lot of people around the world working together and discussing issues of very great importance", says Florencio Utreras, Executive Director of RedCLARA, the institution that leads the project.

Utreras mentioned that, even with the virtual meetings of the communities, any interested in working on these issues can still participate by registering at the Colaboratorio of RedCLARA, using the institutional data or by contacting Tania Altamirano, who is in charge of communities in the continental network. This is because the project is intended to attract researchers, postgraduate students and those who are in the last periods of their degrees to create links internationally and enrich their knowledge.

In capacity building, face to face training sessions on Authorisation and Authentication Infrastructures, eduoam and NRENum.net have been carried out in Latin America, the Caribbean and the Arab States. In addition an on-line course

on NRENum.net and DNS Configuration has been set on-line in English, French and Spanish, and it is fully opened to all those who are interested in NRENum, and mainly targeted to those NRENs that want to offer their member institutions the possibility of registering their equipments of videoconference and of voice over Ip in this global directory. Access to the course:

In English: <http://cursos.redclara.net/course/view.php?id=48>

In Spanish: <http://cursos.redclara.net/course/view.php?id=47>

In French: <http://cursos.redclara.net/course/view.php?id=49>

Since the project started El Salvador, Ecuador, Mexico, Uruguay, Chile and Sri Lanka have become members of NRENum.net (an end-user ENUM service run by the GÉANT Association (formerly TERENA) and participating NRENs).

Last but surely not least, three countries have become project members through their NRENs and MAGIC project assignment of Memorandums of Understanding: Argentina, Ethiopia and Moldova.

For more information about MAGIC, please visit: <http://magic-project.eu/>

Costa Rica launches national open access repository

From Central America comes good news for the whole community of open access repositories in Latin America. It was officially launched last March 8th, at the University of Costa Rica (UCR), the Costa Rican National Repository, called Kímuk, a tool promoted by the National Council of Rectors (CONARE) and supported by LA Referencia, which aims to provide online access to the academic and scientific production in that country.

Luiz Alberto Rasseli

In its first stage, the Costa Rican repository gathers four state universities that are responsible for 70% of the academic and scientific production in the country. Kímuk, indigenous word that means cooperation, has 32.480 documents including articles, theses and reports. The goal, now, is to add other institutional repositories to further strengthen the platform.

For M.Sc. Saray Córdoba Gonzalez, representative of the UCR in the Subcommittee for the Improvement of Scientific Journals and Repositories of Costa Rican public universities of CONARE, and one of the promoters of the project, the participation of researchers is as important as the inclusion of repositories of other institutions. "It is essential that each researcher send a copy of their work to their institutional repository; both to reflect their work at the national level through the Kímuk as well as to facilitate the integration of this information into other services in development, such as the national register of researchers and the resumes generated at the institutional level."

Meanwhile, Alberto Cabezas, executive secretary of LA Referencia, considered this step of Costa Rica as very important

because it means advancing the regional cooperation in order to give visibility to the scientific production of the region. "It shows results of technology transfer and cooperation, following the interoperability agreements that this network has adopted, which derive from the OpenAIRE guidelines. This allows us to build a platform of repositories between Latin America and Europe to support free access to research results."

Currently, Costa Rica has the status of observer in the regional network and its entry is expected to be formalized in 2016. To reach it, "CONARE member universities have created the conditions of technological infrastructure, providing the qualified human resources and intellectual efforts that characterize them, to offer them to the country with interest in contributing to the development of national research", concludes Saray Córdoba.

As noted in the site, each institution undertakes to adapt the configuration of their institutional repository "so that it is consistent with the guidelines of the National Repository, Kímuk, which are based on the OpenAIRE guidelines for literature repositories" and the recommendations of LA Referencia.



INICIO REPOSITARIOS ▾ ESTADÍSTICAS ▾ EXPLORAR ACERCA DE ▾

REPOSITARIOS INSTITUCIONALES
DE PUBLICACIONES CIENTÍFICAS
Y PATRIMONIO CULTURAL

Busque en todos los repositorios
costarricenses desde un mismo sitio

BÚSQUEDA

Todos los Campi ▾

Búsqueda Avanzada

Buscar



Brazil, Colombia, and now Ecuador:

School of Networks reaches one more country in South America

With the support of RNP, the school of CEDIA, in Ecuador, will train professionals and students across the country.

Luiz Alberto Rasseli

The National Research and Education Network of Ecuador, also known as CEDIA, launched, in January, its version of the Superior School of Networks (ESR, by its initials in Spanish) which will be named "Escuela de Seguridad y Redes". This service unit of the latinamerican network was established to promote the development of professional skills and dissemination of knowledge in Information and Communication Technologies, supporting the continued expansion of the advanced network.

"It was always my opinion that a fundamental part to get the improvement of security in our networks is rooted in a proper knowledge on technology issues by the people that handle it", says Ernesto Pérez, coordinator of CEDIA's ESR. "When a person has knowledge and when this same person is integrated to a network with people that is like-minded to the subject, not only is able to acquire skills to prevent or mitigate problems or security events, but can also provide answers and ask advice when need help", he adds.

To reach this goal, CEDIA's ESR counts on a curriculum that has over 15 modules in different areas such as: Management and Network Design, IT Governance, Security, Digital Media Support Collaboration, Management Systems, Identity Management, Systems Development Networks wireless and VoIP.

The process of creating the new school had the support of the ESRs of Brazil and Colombia, which offered all the support and materials for the implementation of the Ecuadorian ESR. The expectations, according to Pérez, are the best. "We hope that the teaching-learning process evolves more and more. At this point, we consider important to incorporate techniques that have the purpose of transmitting knowledge, specifically through the development of courses in virtual format and also in MOOC." As well as CEDIA received help from other networks, the newest ESR in Latin America is also willing to help other networks who wish to have their own schools. "We have the knowledge in our networks to implement these courses and transmit them to those who are interested. Above all, I am sure we have all the willingness to help other networks to create, update, distribute and promote the content for the good of all. It is possible", concluded Pérez.

To get more information about the ESR of CEDIA, please visit: <http://esr.cedia.org.ec/> or write to: info@cedia.org.ec.



Meet Funding and Partners

We invite you to meet the alerts of Funding and Partners, a service tailored to your research needs. What do you have to do to access to it? If you are already registered in Colaboratorio the answer is: Nothing!, cause every week RedCLARA will send you a list of active funds that may be of your interest according to your profile in Colaboratorio.

María José López Pourailly

Since March 8 RedCLARA is sending every user registered in Colaboratorio, every week, a list of active funds that may be of their interest according to their profile in Colaboratorio.

In Funding and Partners you may find opportunities for the development of research projects and identify among Colaboratorio users, potential peers to start collaborative endeavours in your areas of interest.

The service is part of RedCLARA's collaboration platform, Colaboratorio, and displays important elements:

Calls: with information about the calls for submission of projects made by various funding sources, whose expiration dates are close to date. Using the available options, you can sort them

alphabetically or by release date. Also, if you know a source of funding that is not included among the options, you may suggest the incorporation of this fund to the database by sending a URL and a message to the administrator.

Looking after Partners: list of possible contacts, filtered from Colaboratorio's user database, according to the profile information provided by the users.

Notifications: publications made by others who seek to find new members for their projects or have announced their willingness to be added to other existing searches. The users can also publish a notice specifying the discipline, their country of origin and providing a brief description of their interests.





Chile will invest USD\$100 million in undersea optical fiber in the next two years

Within an action plan which intends telecommunications to reach areas with lower income, providing coverage to 98% of the national territory, the Government of Chile will invest over 100 million dollars in undersea optical fiber cabling in the next two years.

EFE

The announcement was made by the Secretary of Telecommunications, Pedro Huichalaf, last February, during a visit to Spain. In an interview, Huichalaf said it is the duty of the government to "encourage that connectivity reaches rural, extreme and indigenous communities." For this, the action plan, called Digital Agenda 2020, in operation since November of 2015, consists of three fundamental pillars.

The first covers the modernization of the state, with initiatives such as the digitization of more than three hundred municipal procedures across the country, while the second - related to the economy - includes the development of small and medium-sized companies. The last pillar on which will be built this new plan comes to infrastructure, very important sector because, in the opinion of the Secretary, to have connectivity a country must first have a "body".

The Chilean government has reached several agreements with companies, by means of which will be invested 26 million dollars in infrastructure, a figure that doubles the amount allocated in the last decade according to data provided by the secretary, who trusts in the development of the country. Currently, Chile has two optical fibers that come from the United States as "unique connections," added Huichalaf.

Another project that the country has in the short term is the implementation of free wifi in some areas of the country, to benefit those who have no connection at home. Currently, only six of the thirteen Chilean regions rely on the service, which aims to provide connectivity to over 1800 locations and 500 public schools.

REUNA celebrates the announcement of investments



The announcement of the investment in optical fiber done by the Chilean government was very well received by the National University Network of Chile, REUNA. According to the executive director of the network, Paola Arellano, investments constitute "a tremendous opportunity". "We consider that this is a strategic investment for the country and that we cannot postpone

it. No doubt, the regions of southern Chile need to rely on digital connectivity conditions that integrate them effectively, in an appropriate relationship of quality and price, to the country and to the world. Without them, we limit not only the economic development of these areas, but also the tremendous scientific potential of one of the places whose characteristics make it unique for studies in several areas, such as research on the Antarctic, geology, glaciology, between others", said Arellano.

According to the director, there is already a work plan that is being led by the Undersecretary of Telecommunications of Chile (Subtel) and it certainly must undergo to review and approval so that the bidding basis can be open to the interested companies so they can present their proposals.

Luiz Alberto Rasseli

A study reveals the state of art of the Internet infrastructure in Latin America

Did you know that the consumption of Internet traffic per user increased 62% in Latin America in recent years, while worldwide it grew just 42%? And that, at the end of 2013 there were 256 million users in the region? These and other interesting facts about the state of the Internet infrastructure in Latin America were presented last February, in a study prepared by the Brazilian Rogerio Mariano, one of the Internet specialists with more recognition and experience in the continent.

Luiz Alberto Rasseli

The study was released on Facebook and Google+ by Internet Society Latin America and the Caribbean and, in few minutes, caught the attention of the internet community for the importance of its numbers and conclusions:

- According to the latest research from CAF and Internet Society, at the end of 2013 there were in Latin America 256 million users, equivalent to a penetration of 44.7%
- The consumption of Internet traffic per user in the region grew 62% in recent years, while worldwide grew 42%.
- Most of the traffic generated in Latin America still transiting through international connections.
- 49% of Internet traffic in the region is international and 85% is destined to the United States. In addition, about 14% of the US Internet traffic represents communication flows between the countries of Latin America.
- About two billion dollars are spent in international transit costs due to the lack of regional IXP interconnection infrastructure.

To celebrate, the fact that the consumption of Internet traffic per user in the region increased 20% more than the world average. "Many people got access to the Internet, mainly due to the advent and consolidation of 3G/4G in the last eight years and the growth of the infrastructure of some suppliers", says the study's author. However, this same scenario makes essential the development

of infrastructure in Latin America, to help to reduce costs for the end user and increase the data transmission speed. "We still have many needs in terms of access speed, bandwidth and quality in more distant regions", said Mariano.

For the expert, who is currently the Chairman of the Board of Directors of LACNOG (Network Operators Group of Latin America and the Caribbean) and member of Internet Society, IETF (Internet Engineering Task Force) and the Strategic Working Group of ICANN LAC, there are two main reasons for this: the state tax barriers, which means the very high taxes for products that generate telecommunications infrastructure, computing and the Internet, and the incipient creation of policies that allow the development of this infrastructure.

One possible solution would be the Internet Exchange Points (IXP), which would allow Internet service providers to make interconnections without the use of international circuits. The main advantages of having the IXP are the reduction of transit costs, interconnection and broadband, and the decrease of latency.

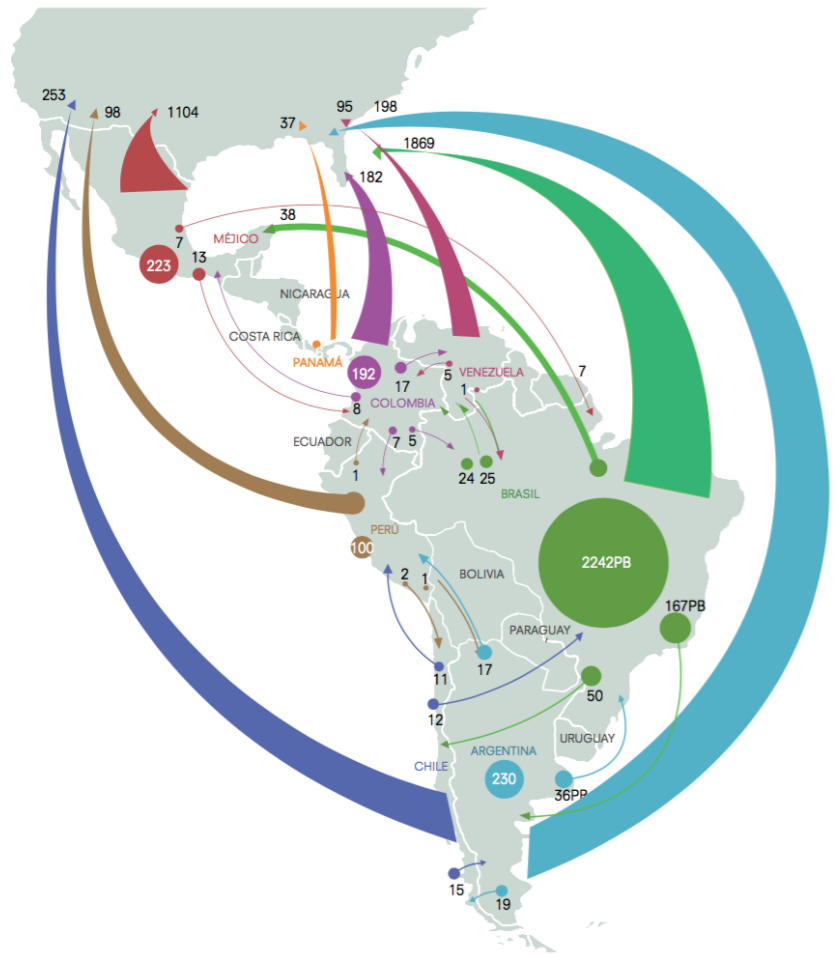
In Latin America and the Caribbean there are about 50 IXP, distributed in Chile, Mexico, Cuba, Dominican Republic, Grenada, Haiti and Costa Rica, but it has not yet made the necessary development to substantially improve the rates or quality of service. At the time, Brazil and Argentina are the only ones with regional IXP projects that generate traffic between the countries.



For Mariano, the academic networks can also play an important role in the development of the Internet in the region. "Advanced networks can do much through research and education. For me it is very clear that the widely developed countries have strong and active academic networks." If everyone works together, it will be possible to achieve what the specialist calls "the best of the worlds": a connection of quality with good bandwidth and fair price. "I think this goal will be achieved in the medium/long term. We have a long way to go, but it is undeniable that there are many people working hard to get there", he concludes.

EXPANSIÓN DE INFRAESTRUCTURA REGIONAL PARA LA INTERCONEXIÓN DE TRÁFICO DE INTERNET EN AMÉRICA LATINA

Figura A.
Estimación de flujos de tráfico en América Latina (2017, en PB)



Fuente: Análisis TAS.



AGENDA 2016

April

6 | RDA - Weaving The Internet Of Data – High Level European Policy Meeting On Funding Research Data To Support Open Innovation
Amsterdam, Netherlands
<http://europe.rd-alliance.org/plenaries-events/events/weaving-internet-of-data-high-level-european-policy-meeting-funding>

6-8 | EGI Conference 2016 Opening science in Europe and in the World
Amsterdam, Netherlands
<https://indico.egi.eu/indico/event/2875/overview>

13-14 | SIG-NOC
Stockholm, Sweden
<https://eventr.geant.org/events/2379>

13-14 | TRANSITS | CSIRT Training
Prague, Czech Republic
<https://www.terena.org/activities/transits/transits-i/prague/apr15/index.html>

13-14 | TRANSITS | CSIRT Training
1931, Netherlands
<https://www.terena.org/activities/transits/transits-i/egmond/april-2016/>

20-21 | 10th Annual Digital Regulation Forum
London, England
<https://digitalregulationforum.com/about-the-event/>

20-21 | Net Futures
Brussels, Belgium
<http://netfutures2016.eu/>

May

10-12 | PRACEdays16
Prague, Czech Republic
<http://www.prace-ri.eu/pracedays16/>

11-13 | IST-Africa 2016 Conference
Durban, South Africa
<http://www.ist-africa.org/Conference2016/>

15-18 | 2016 Internet2 Global Summit
Chicago, United States
<http://meetings.internet2.edu/2016-global-summit/>

17-18 | Quantum Europe 2016: a new era of technology
Amsterdam, Netherlands
<https://eventr.geant.org/events/2354>

21-22 | RIPE Atlas Interface Hackathon
Copenhagen, Denmark
https://labs.ripe.net/Members/suzanne_taylor_muzzin/ripe-atlas-interface-hackathon

23-27 | 72nd RIPE Meeting
Copenhagen, Denmark
<https://ripe72.ripe.net/>

23-24 | Open Innovation 2.0 Conference 2016
Amsterdam, Netherlands
http://ec.europa.eu/newsroom/dae/itemdetail.cfm?item_id=27913&newsletter_id=126&lang=en

24-26 | 3rd AARC General Meeting
Utrecht, Netherlands
<https://eventr.geant.org/events/2388>

June

8-10 | EUNIS2016
Thessaloniki, Greece
<http://www.eunis.org/eunis2016/>

12-17 | FIRST Conference 2016
<https://eventr.geant.org/events/2138>

13-16 | TNC16
Prague, Czech Republic
<https://tnc16.geant.org/>



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