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Deliverable D7.6

**Impact Metrics Measurement Second
Period**



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Periodical Progress Report

ELCIRA Deliverable: D7.6 - Impact Metrics Measurement Second Period

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Abstract: This document reviews the achievements of the ELCIRA Project during the project execution by checking at the metrics that were proposed in Part B of the DoW.

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For more information on ELCIRA, its partners and contributors please see <http://elcira.redclara.net>

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DELIVERABLE ROUTE

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1. PURPOSE OF THE DOCUMENT

The ELCIRA Project aims to coordinate a series of collaboration tools and services that are being developed in Europe and Latin America in order to provide an interoperability framework that facilitates the work of European-Latin American research teams and to foster collaboration in joint research projects.

In order to measure the effectiveness of the project, the Description of Work Document details metrics associated to the specific work packages to be measured at the end of the project. This document details the results achieved close to the end of the project.



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2. METRICS REVISION

2.1. WP2 - COORDINATED ACTIONS FOR AAI BETWEEN EU AND LA

The proposal of WP2 was to impact on the adoption of the AAI (Authentication and Authorization Infrastructure) standards, aiming standards defined by the eduGAIN Interfederation and integrate them with the Brazilian Federation (CAFe).

The following is measured at the end of the Project:

Two new federations created and operating in LA

Regarding the federations, the metric proposed was two new federations. This goal was achieved and surpassed. Actually there are three NRENs operating:

- Ecuador (CEDIA - www.cedia.org.ec);
- Argentina (INNOVA RED - www.innova-red.net);
- Colombia (RENATA - www.renata.edu.co).

Although Chile (REUNA - www.reuna.cl) was federated before ELCIRA, the project helped Chile to become member of eduGAIN.

AAI interoperability and interoperation implemented in a pilot form

Although Authentication and Authorization Infrastructure is a very complex theme, we could achieved the objectives. Actually NRENs are integrated to eduGAIN:

- Chile (COFRE)
- Ecuador (MiNGA)
- Colombia (COLFIRE)
- Argentina (MATE) (Joining)

The Number of services consumed by LA AAI from eduGAIN will grow from 0 to at least 2

RedCLARA's IdP was integrated to Foodl, FileSender, and eduGAIN. FileSender is actually used in the collaboration portal, and RedCLARA's users are able to use almost any of the services in Europe through eduGAIN. This metric has been achieved.



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2.2. WP3 - STANDARDS FOR AN INTERREGIONAL VIDEOCONFERENCE SERVICE

WP3 will allow the research users of both continents to easily schedule a HQ Video Conference without passing through a manual process involving resources from top management at the NREN or GÉANT level to schedule a work meeting or a larger event.

The following metrics will measure the impact:

At least 4 NRENs will integrate their VC system with the SIVIC Scheduling system

At the reporting date, there are four (4) organizations using the SIVIC application. The NRENs from Ecuador (CEDIA), Colombia (RENATA), Costa Rica (CONARE), and the Caribbean network (CKLN). SIVIC application was changed very recently (at month 25) in the new portal version, and need to be promoted across NRENs. SIVIC has frequent use, but not as part of an official integration by the NREN, from users in Venezuela and Mexico.

The following picture shows the integration in Costa Rica. The registration is carried out through the RedCLARA's portal, and the users get access to the scheduling and directory page in their website. The scheduling system assign the multi-conference Unit (MCU) virtual rooms from the CONARE's resources.



In CKLN and RENATA, the integration is also carried out through web services with the only difference that they have their own identity provider (IdP).



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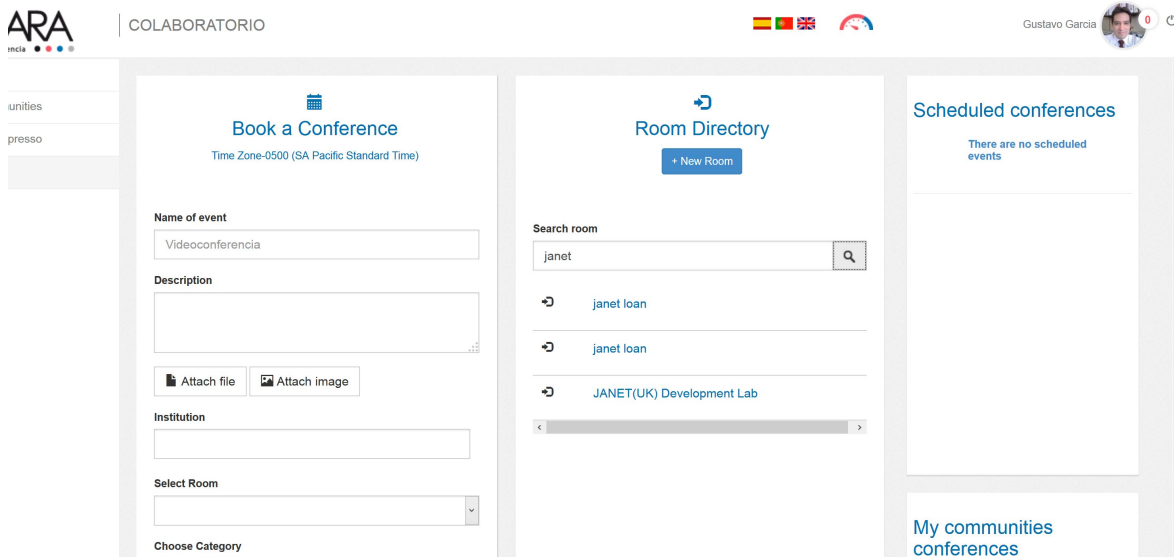
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SIVIC will interoperate with EduCONF

Users can search for eduCONF directory rooms in the SIVIC application. This feature was developed using the eduCONF integration API, and access provided by the eduCONF team. The SIVIC use web services (XML POST), to get rooms information from the eduCONF directory server. The following screen shows an example on how to use this feature:



The number of inter-regional VCs will increase from a low unknown number to at least 10 per month and beyond

Number of conferences in the last months were:

Month	Total conferences	Inter-regional
September 2014	5	4
August 2014	11	7
July 2014	12	8
June 2014	15	9
May 2014	11	7
Apr/2014	19	4

This metric was achieved partially and it is necessary to foster the use of SIVIC and increase the use of SIVIC.



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2.3. WP4 - PROMOTING THE DEPLOYMENT OF EDUROAM SERVICES

WP4 will spread the use of the eduroam standard to interoperate a Global Roaming WiFi Service for academic users.

The following results can be ensured:

At least two (2) and ideally four (4) NRENs will have eduroam implemented and interoperating with the federations for internal use and replication

As predicted by the group, the countries below implemented and federated to eduroam:

- Chile (REUNA - www.reuna.cl)
- Perú (RAAP - www.raap.org.pe)
- Colombia (RENATA - www.renata.edu.co)
- México (CUDI - www.cudi.mx)
- Argentina (Innova|Red- www.innova-red.net)
- Costa Rica (CONARE - www.conare.ac.cr)
- Ecuador (CEDIA - www.cedia.org.ec)

Seven (7) NRENs should sign an agreement to implement eduroam internally within 2 years from the project end.

It is expected that at the end of the project we have at least those NRENs already committed to implement eduroam:

- Colombia (RENATA - www.renata.edu.co);
- Argentina (Innova|Red- www.innova-red.net);
- Costa Rica (CONARE - www.conare.ac.cr);
- El Salvador (RAICES - www.raices.org.sv); (*)
- Ecuador (CEDIA - www.cedia.org.ec).
- Uruguay (RAU - www.rau.edu.uy); (*)
- Mexico (CUDI - <http://www.cudi.edu.mx>);

(*) - The implementation is ready but it is still pending sign the MoU and the statement between the nREN and the Global Committee of eduroam.

This metric was achieved. It's important to mention that countries of the region signed an agreement for the creation of the Latin American Confederation of eduroam (CLATe).



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2.4. WP5 - EXTENDING AND STRENGTHENING THE COLLABORATION PLATFORM

WP5 will provide tools for researchers to improve their interaction on both continents. This will also avoid unnecessary development of similar tools by different projects by providing them with a tool that should become a standard for EU-LA collaboration.

The following are the metrics to measure this impact:

(4) Four new user research and education's communities created each year (a total of 8 research communities during the project lifetime)

Since the report presented on June 2012, about 40 new communities were created. In the following table we refer those communities that are currently showing an important number of members:

Community	Description	Created	Members
Cari-CoP-training	This community was created for the workshop CKLN-Caricom Clusters / Community of practice held October 10th and 11th 2013, at the UWI Cave Hill in Barbados.	10/10/2013	31
RedIC-UCR	REDIC-UCR is a teaching innovation project based on collaboration among different academic units. Its central purpose is to contribute to the transformation of university model teaching in order to improve the student learning, seeking to favor both their best professional performance as its effective integration into society.	25/07/2013	25
RedRepositorioCEDIA	This community aims to integrate the Ecuadorian institutional repositories to the CEDIA main repository.	25/02/2014	15
BICCRonda2014	Festival of Scientific Cinema Community - BICC Ronda 2014.	14/02/2014	14
SCALAC	Advance Computer Service for Latin America and the Caribbean	11/3/2013	14
ObjetosCompactos	The community of compact objects in General Relativity aims to improve collaborative work on Relativistic Astrophysics.	25/08/2013	14
REGULATEL	The Latinoamerican Forum of Telecommunication Regulators are conform by 20 regulatory entities: Argentina, Bolivia, Brasil, Colombia, Costa Rica, Cuba, Chile, Ecuador, ElSalvador, Guatemala, Honduras, México, Nicaragua, Panamá, Paraguay, Perú, Puerto Rico, República Dominicana, Uruguay, Venezuela, España, Portugal e Italia.	4/12/2013	11



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UXTIC	<i>Universidades por las TIC</i> , aims to encourage the use of the TIC for the development of the region.	26/08/2013	9
OECSREN-TF	The Organization of Eastern Caribbean States (OECS) represents nine (9) English Speaking countries in the Eastern Caribbean which include: British Virgin Islands (BVI), Anguilla, St. Kitts & Nevis, Montserrat, Antigua & Barbuda, Dominica, Saint Lucia, St. Vincent & the Grenadines, Grenada, Carriacou & Petit Martinique. These countries have come together to establish an OECS Research and Education Network by establishing a Task Force (TF) consisting of representatives of the post secondary institutions, the Organisation of Eastern Caribbean States, and the CKLN. This forum is set up to facilitate the collaboration among members of the TF.	24/10/2013	9
Open_Distance_Learning	Open Distance Learning has been around the Caribbean for a long time. This Community aims to be a sharing space.	14/11/2013	9
TTRENT-Tech	Technical Community for Trinidad & Tobago National Research & Education Network.	16/01/2014	9
CeVALE2	The Virtual Center for Advanced Studies in High Energy, CeVALE2, is a group of students and researchers from different areas of Physics seeking to collaborate virtually.	30/04/2014	8
ePrevencion	ePrevención Community gives TIC support to the <i>Red Latinoamericana para la Educación en la Prevención de la Salud</i> . This community make use of the infrastructure and services of RedCLARA in order to develop the collaborative work of the Latinamerican Network for the Education on Health Prevention.	12/4/2013	7
ORENVirtualLibraryPilot	A Pilot Project for establishing a Virtual Library in the Caribbean. The Goal of the pilot is to facilitate collaboration between tertiary institutions in the OECS to share indigenous data, information and knowledge resources for learning and research. The project will pilot the Caribbeana concept of a Virtual Library for the C@ribNET communities of emerging NRENS.	11/10/2013	7
EmergingTech	Emerging Technologies that impact National Development.	16/01/2014	6



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(3) Three services approved and implemented in a pilot fashion at M15 at a scale of 60 users and of 3000 users in M22.

At the end of the project, four services were implemented and in production:

- Colaboratorio
- Wiki
- VCE
- Filesender

These services are accessible in <http://colaboratorio.redclara.net/> and actually 3200 users were created in our services.



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2.5. WP6 - FOSTERING THE COLLABORATION BETWEEN EU AND LA RESEARCHERS

In WP6 we will foster collaboration and provide training, tools and support to ensure that end users adopt the technologies developed or integrated in this project.

The following are the impact metrics proposed:

At least 6 User Communities become users of the Portal Services each year (this includes the 4 new communities)

In 2013, there were 10 communities created in the portal, and up to September 30/2014, there are 5 communities created, and two (2) communities pending of creation (e-Salud and BIODiversidad). This means that the goal will be achieved in both Years. The communities already created in the portal are:

Community	Description	Created	Members
REGULATEL	The Latin-American Forum of Telecommunication Regulators is conformed by 22 regulatory entities: Bolivia, Brasil, Colombia, Costa Rica, Cuba, Chile, Ecuador, El Salvador, Guatemala, Honduras, México, Nicaragua, Panamá, Paraguay, Perú, Puerto Rico, Rep. Dominicana, Uruguay, Venezuela, España, Portugal e Italia.	12/04/2013	11
Cari-CoP-training	This community was created for the workshop CKLN-Caricom Clusters / Community of practice held October 10th and 11th 2013, at the UWI Cave Hill in Barbados.	10/10/2013	31
SCALAC	Advance Computer Service for Latin America and the Caribbean	03/11/2013	14
ORENVirtualLibraryPilot	A Pilot Project for establishing a Virtual Library in the Caribbean. The Goal of the pilot is to facilitate collaboration between tertiary institutions in the OECS to share indigenous data, information and knowledge resources for learning and research. The project will pilot the Caribbean concept of a Virtual Library for the C@ribNET communities of emerging NRENs.	10/11/2013	7
ePrevencion	ePrevención Community is gives TIC support to the Red Latinoamericana para la Educación en la Prevención de la Salud. This community make use of the infrastructure and services of RedCLARA in order to develop the collaborative work of the Latin-American Network for the Education on Health Prevention.	04/12/2013	7



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Community	Description	Created	Members
BICCRonda2014	Festival of Scientific Cinema Community - BICC Ronda 2014.	14/02/2014	14
Open Distance Learning	Open Distance Learning has been around the Caribbean for a long time. This Community aims to be a sharing space.	14/11/2013	9
TTRENT-Tech	Technical Community for Trinidad & Tobago National Research & Education Network.	16/01/2014	9
EmergingTech	Emerging Technologies that impact National Development.	16/01/2014	6
OECSREN-TF	The Organization of Eastern Caribbean States (OECS) represents nine (9) English Speaking countries in the Eastern Caribbean which include: British Virgin Islands (BVI), Anguilla, St. Kitts & Nevis, Montserrat, Antigua & Barbuda, Dominica, Saint Lucia, St. Vincent & the Grenadines, Grenada, Carriacou & Petit Martinique. These countries have come together to establish an OECS Research and Education Network by establishing a Task Force (TF) consisting of representatives of the post secondary institutions, the Organisation of Eastern Caribbean States, and the CKLN. This forum is set up to facilitate the collaboration among members of the TF.	24/10/2013	9
RedRepositorioCEDIA	This community aims to integrate the ecuatorian institutionals repositories to the CEDIA main repository.	25/02/2014	15
RedIC-UCR	REDIC-UCR is a teaching innovation project based on collaboration among different academic units. Its central purpose is to contribute to the transformation of university model teaching in order to improve the student learning, seeking to favor both their best professional performance as its effective integration into society.	25/07/2013	25
ObjetosCompactos	The community of compact objects in General Relativity aims to improve collaborative work on Relativistic Astrophysics.	25/08/2013	14
UXTIC	<i>Universidades por las TIC, aims to encourage the use of the TIC for the development of the region.</i>	26/08/2013	9
CeVALE2	The Virtual Center for Advanced Studies in High Energy, CeVALE2, is a group of students and researchers from different areas of Physics seeking to collaborate virtually.	30/04/2014	8



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Training Workshops for the use of Portal Tools provided at least 6 times during the project for over 8 communities each one

The use and dissemination of video tutorials of Filesender, VCEspresso, SIVIC and WIKI services, all in English and Spanish version, have allowed us to reach a huge public and also support directly users in order to solve concerns and empower them to train others colleagues in the used of these services.

Considering videos are a very useful tool, we reviewed the strategy. Instead of organizing training workshops, the dissemination and training has been done by our NRENs, such as Argentina, Ecuador, Costa Rica, Venezuela and Mexico, and also by CKLN community using these videos. The material is very useful to teach their members on how to use the services and also help them to discover these services unknown by many of the NREN users. We could reach more people reducing costs.

Moreover during the project execution we organized the following workshop:

- Training workshop on Collaborative Community Work and appropriation of the Collaborative Portal Tools.

As part of TICAL Conference on July 2013, the Academic Management of RedCLARA organized a workshop with the leaders of the academic communities attending the event. In this activity, more than 20 leaders were trained on the use of the Portal's collaborative tools and we could confirm the interest of the users on this kind of tools as well as we could prove the convenience of this services on the practical and current work of the members of the academic communities.

A total of at least 9 Case Studies on Projects using the e-Infrastructure in a meaningful way

In order to share the practices of the most successful communities, RedCLARA has developed the cases of study where the experiences, procedures and the organizations strategies are registered for the most successful communities. During the project execution we developed the following cases of study:

- LAGO (Large Aperture Gamma Ray Burst Observatory)
- LACLO (Latin American Community of Learning Objects)
- MAPAD2 (MAP & Arts Program for Dance and Performance Digital)
- SCALAC (Advance Computer Service for Latin America and the Caribbean)
- LA REFERENCIA (Latin America network of national systems of institutional repositories)
- RED PARA CRECER (Spreading information about autism and understanding the autistic condition)
- SPRACE (São Paulo Research and Analysis Center)
- CRIA (Reference Center on Environmental Information)
- INBio (National Biodiversity Institute)



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At least 6 Large Scale Events, including the event for the promotion of RU Research Programmes and calls

Since the beginning of ELCIRA Project until now have organized 24 events. These activities are:

Date	Event
August 13, 2014	"The Advanced Network in the academy and the research of Latin America"
March 27, 2014	"The role of academic and professional training in conservation and documentation of sound and audiovisual heritage in Latin America"
March 12, 2014	"e-Health: Strategies, National Programs and Academic Networks"
February 27, 2014	"The preservation and dissemination of sound and audiovisual heritage in Latin America"
January 28, 2014	"Meeting on Audiovisual Web Platform for Science and Technology. Experiences and Proposals in Latin America"
11-Dec-2013	"2nd Virtual Day on The IGUAL Project"
28-Nov-2013	"Social Innovation"
27-Nov-2013	"4th Virtual Day on Autism"
20-Nov- 2013	"Data Science"
13-Nov- 2013	"The IGUAL Project"
24-Oct-2013	"LACNIC IPv6 Certification Initiative (Certiv6)"
23-Oct-2013	"Entrepreneurship and Innovation in Latin America"
25-Sep-2013	"3rd Virtual Day on Autism"
31-Jul-2013	"The Internet of the Future"
19-Jun-2013	Federaciones de Identidad: llave de acceso a servicios TIC para la Academia
29-May-2013	2do. Día Virtual sobre el Autismo
22-May-2013	Hacia la universalidad del acceso abierto
13-Mar-2013	Día Virtual de Objetos de Aprendizaje
27-Feb-2013	Día Virtual sobre el Autismo
23-Jan-2013	Acceso Libre a Laboratorios Complejos Laboratorios Virtuales y Tele-operados
05-Dec-2012	Segundo Día Virtual de e-Cultura
21-Nov-2012	Día Virtual de e-Comunicación
24-Oct-2012	Día Virtual de Física de Altas Energías
12-Sep-2012	Día Virtual de e-Salud

More information at <http://www.redclara.net/emb/eventos.redclara.net/indico>



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3. CONCLUSION

In the following chart we can see a global vision of the goals achieved.

WP Number	Metric	Status
2	2 new federations created and operating in LA	Achieved
2	AAI interoperability and interoperation implemented in a pilot form	Achieved
2	Services consumed by LA AAI from eduGAIN from 0 to at least 2	Achieved
3	At least 4 NRENs will integrate their VC system with the SIVIC Scheduling systems	Achieved
3	SIVIC will interoperate with EduCONF	Achieved
3	The number of inter-regional VCs will increase from a low unknown number to at least 10 per month and beyond	Partially
4	At least two (2) and ideally Four (4) NRENs will have eduroam implemented and interoperating with the federations for internal use and replication	Achieved
4	Seven (7) NRENs should sign an agreement to implement eduroam internally within 2 years from the project end	Achieved
5	Four (4) new user research and education's communities created each year (a total of 8 research communities during the project lifetime)	Achieved
5	Three (3) services approved and implemented in a pilot fashion at M15 at a scale of 60 users and of 3000 users in M22	Achieved
6	At least 6 User Communities become users of the Portal Services each year (this includes the 4 new communities)	Achieved
6	Training workshops for the use of Portal Tools provided at least 6 times during the project for over 8 communities each one	Achieved Replaced by on line and in country trainings
6	A total of at least 9 Case Studies on Projects using the e-Infrastructure in a meaningful way	Achieved
6	At least 6 Large Scale Events, including the event for the promotion of RU Research Programmes and calls	Achieved

We can conclude that ELCIRA could achieve the goals in the most metrics, even surpassing them in some objectives. On the other hand, we have to review the strategies to reach the metrics we could achieve partially.



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