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Directorate General for Communications Networks, Content and Technology
eInfrastructure

Magic

Middleware for collaborative Applications and Global vIrtual Communities

Deliverable D3.1

Collaboration portal implemented for 2 new NRENs

This project is co-funded by the Horizon 2020 Framework Programme of the European Union

A project implemented by RedCLARA

Progress Report

MAGIC Deliverable: D3.1 Collaboration portal implemented for two (2) new NRENs

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Abstract: The MAGIC project, in its work package 3, has the goal to deploy Colaboratorio service instances in several NRENs. The initial commitment was to achieve two new instances, and it was accomplished and over-achieved with a total of 3 NRENs, in 2 regions. The new implementations of Colaboratorio were done in Ecuador (CEDIA), Costa Rica (CONARE) and Nigeria (NgREN).

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For more information on MAGIC, its partners and contributors please see http://www.magic-project.eu.

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DELIVERABLE ROUTE

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1. INTRODUCTION

RedCLARA as member of the global academic and research networking community, has been working for several years in deploying and implementing services for its communities. The Colaboratorio service is one of the most remarkable advances regarding this work. The service can be described as an application market focused on the communities, and its implementation can help to bring together communities in different regions. Nowadays, the Colaboratorio offers services like a communities management framework based on Jomsocial, a Webconference system based on MCONF, a Wiki service, the Filesender (developed/funded/supported by the NRENs AARNet, BELNET, HEAnet, SURFnet, and UNINETT), a Videoconference scheduling service called SIVIC, and tools for news, funds notifications, and events management. This effort brings all the created content, and collaboration efforts in a common space provided by the NRENs for the NRENs. This report contains a description of this work, and references of three (3) new Colaboratorio implementations that are part of the future work in the MAGIC project.

2. DOCUMENT AMENDMENT PROCEDURE

Requests for amendments to this document must be made to the editor, Gustavo Garcia (RedCLARA), and copied to the Management of the MAGIC project.

3. GLOSSARY

AARNet	Australian NREN
BELNET	Belgium NREN
CEDIA	Ecuadorian NREN
CKLN	Caribbean Knowledge and Learning Network
CONARE	Costa Rica's NREN
EC	European Commission
EU	European Union
EU-LAC	Europe, Latin America and the Caribbean
DNS	Domain Name System

HEAnet	Ireland NREN
NgREN	Nigerian Research and Education Network
NREN	National Research and Education Network
RENATA	Colombian NREN
SURFnet	The Netherlands NREN
UNINETT	Norway NREN
WACREN	West and Central Africa Research and Education Network

4. REFERENCES

[R1 MAGIC Website http://www.magic-project.eu

5. EXECUTIVE SUMMARY

The Colaboratorio service has been implemented in the past at RedCLARA (Latin-America), the Caribbean (CKLN), and Colombia (RENATA). During the first phase of the MAGIC project, the work package 3 team has deployed the Colaboratorio in three new NRENs: Ecuador (CEDIA), Costa Rica (CONARE) and Nigeria (WACREN/NgREN). The Argentinean NREN is also in pilot, so that future implementations are already in preparation. The original goal for the reporting period was to have two (2) new implementations. The promotion of the MAGIC project, and the interest in working with the international community, was the key factor to surpass the committed number of implementations. Another important element, is the inclusion of NgREN - the Nigerian NREN - which makes the African continent as the third region to implement the Colaboratorio service.

6. DESCRIPTION OF THE INTEGRATION WORK

The Colaboratorio service integration works as a traditional service provider (SP) role in an identity federation. The service is provided by an specific organization, and database resides in the service provider infrastructure. Nevertheless, in addition to the SP integration using the SAML2, the Colaboratorio uses a HTML/JavaScript/Iframe integration allowing customer portal to use the service as their own. The following figure shows how the integration is done, and the interfaces in each part. It is worth mentioning that Colaboratorio's goal is allowing

to each NREN to provide feeds for content and services. The Colaboratorio can include local services in the interface (Colombia's NREN is a good example of using this), allow to use RSS feeds for news and events (under development), and integrate NREN service instances for applications like Videoconference scheduling or Web-conference.

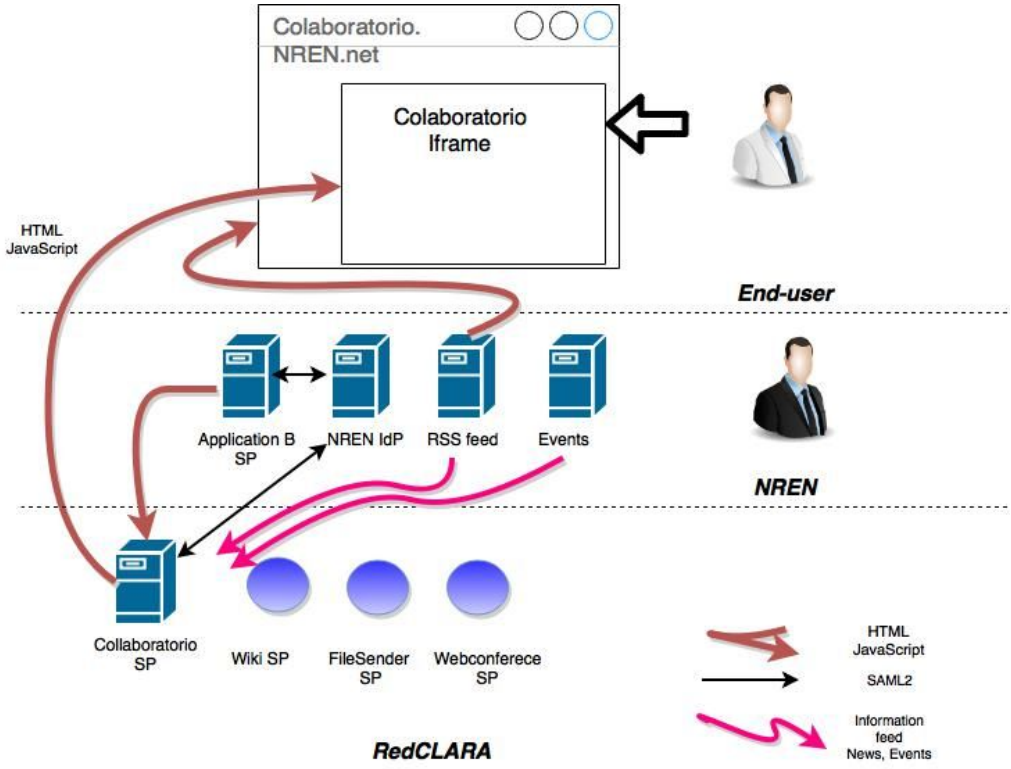


Figure N°1. Architectural description.

7. INTEGRATED SERVICES

All the integrations reported in this document include the following services:

Communities portal: Is an application portal that allows to create and manage communities. Each community member in the portal can share information, post messages, create events, invite other members, and use applications in the communities context.

VCEspresso: Is a web-conference service based in the MCONF branch of the Bigbluebutton application. The MCONF application work in a federated network of Web-conference servers where multiple servers can be use to provide specific services or redundancy. The VCEspresso allows multiple video, and audio conferences with content sharing and recording capabilities, all associated to the communities in the Colaboratorio.

Wiki: The wiki service is based on Mediawiki with a customized interface to Colaboratorio. The Wiki is used for creating web content in a collaborative way.

FileSender: The Filesender application allows sharing big files. The user can upload a file and share the link with a group of users. The Filesender is a application developed/funded/supported by the NRENs AARNet, BELNET, HEAnet, SURFnet, and UNINETT.

Indico: All events in the Colaboratorio are automatically created in an event management system based on Indico. The Indico can handle all aspects in an event like participants, registration, presentations, schedule and many others.The Indico is an application developed by the CERN.

8. THE NEW IMPLEMENTATIONS

In this sections are shown the Colaboratorio instances which were developed, are described. The total number of users in the Colaboratorio has increased by more than 80% since 2014. One of the NRENs that contributed considerably in this respect was RENATA from Colombia with a total of 2441 users. Also, Ecuador, Costa Rica, WACREN, CKLN and Argentina that contributed with 1118 users.The following table shows a summary of the users registered in the Colaboratorio by

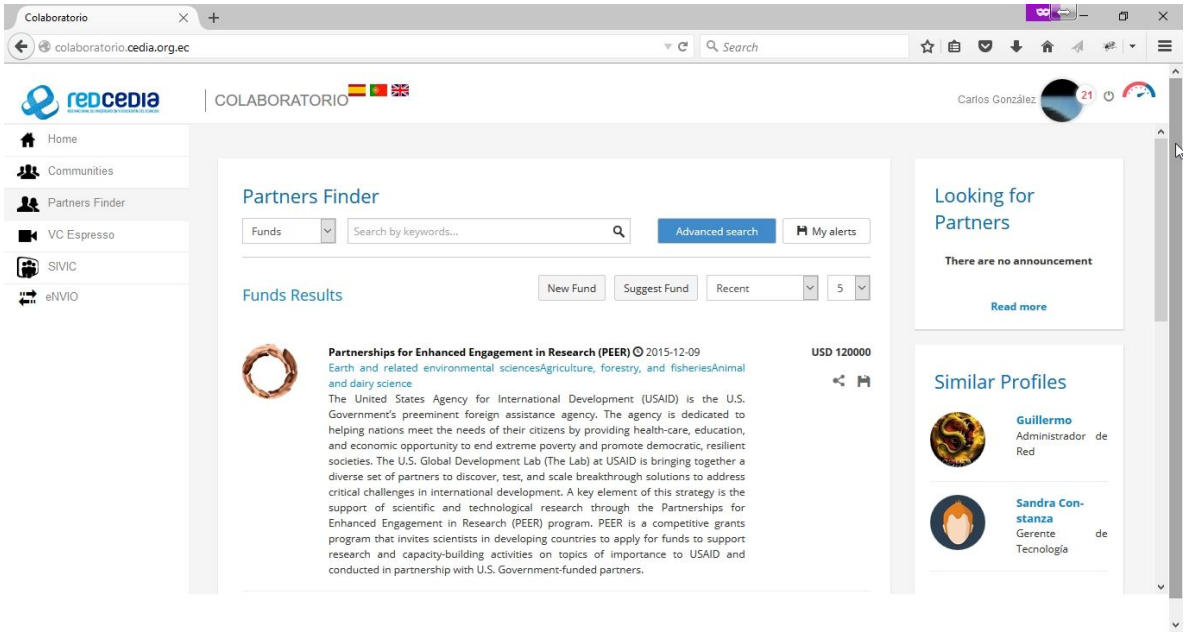
NREN or organization. It is worth noting that NgNREN/WACREN implementation is very recent and thus the number of active users is expected to grow.

NREN/Organization	Country/region	User count
CEDIA	Ecuador	313
CKLN	Caribbean	154
CONARE	Costa Rica	436
InnovaRed	Argentina	208
RedCLARA	Latin-America	2636
RENATA	Colombia	2441
WACREN	West-Africa	5
TOTAL		**6193**

In the following sections, are shown the implementations carried out by the NRENs with the support of the MAGIC WP3 working group are shown.

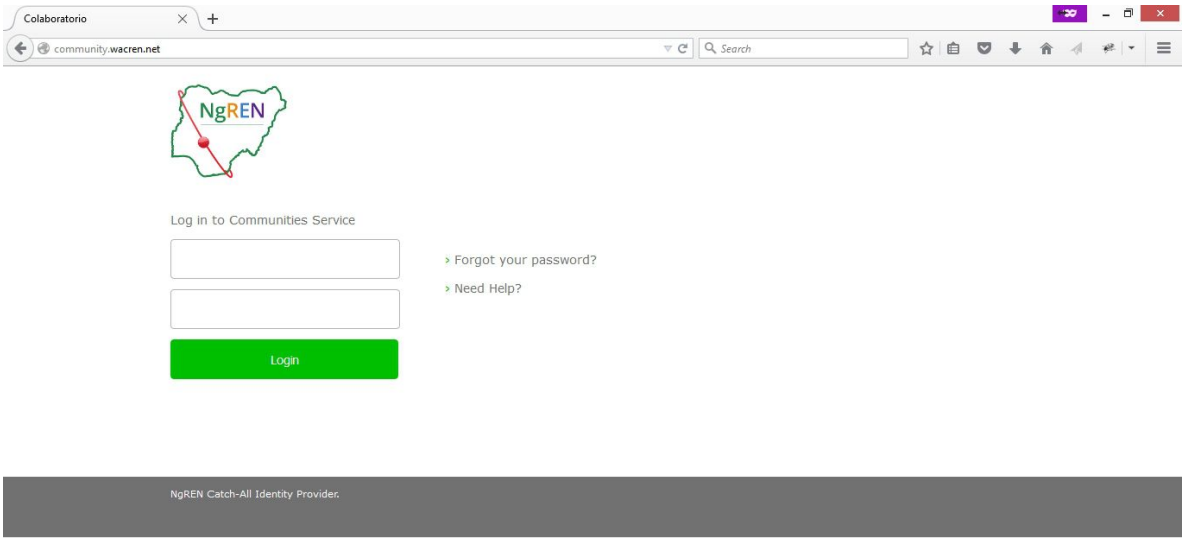
8.1. CEDIA

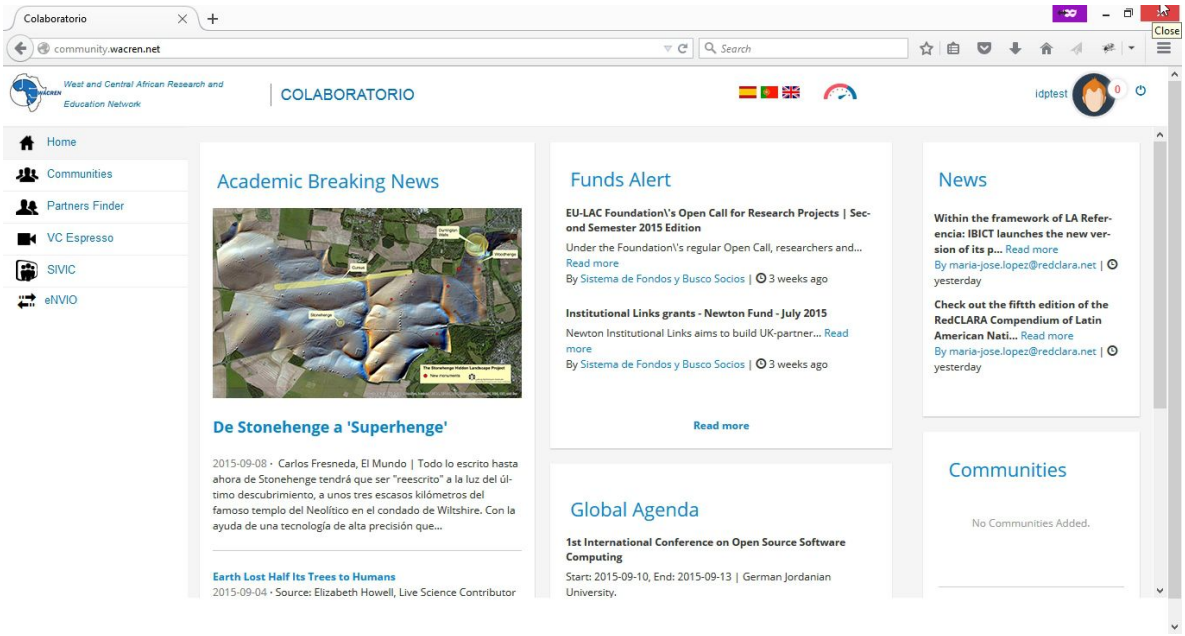
URL	http://colaboratorio.cedia.org.ec
Implemented on	August 2015
Responsible	Claudio Chacón claudio.chacon@cedia.org.ec



8.2. WACREN

URL	http://community.wacren.net
Implemented on	July 2015
Responsible	Omo Oaiya omo@wacren.net





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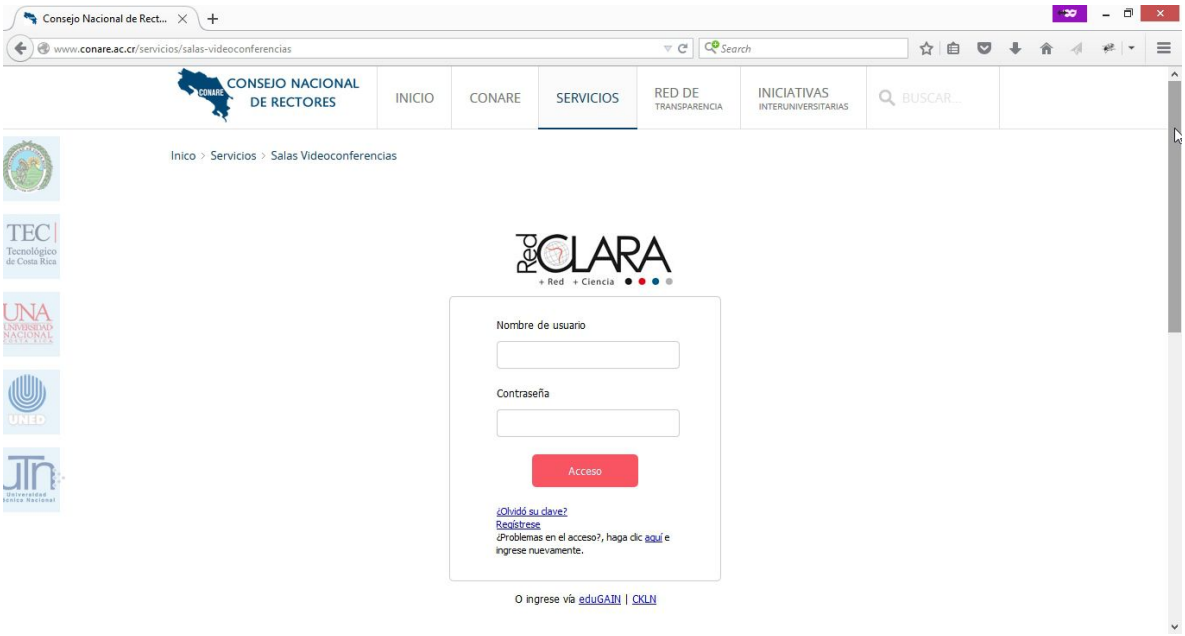
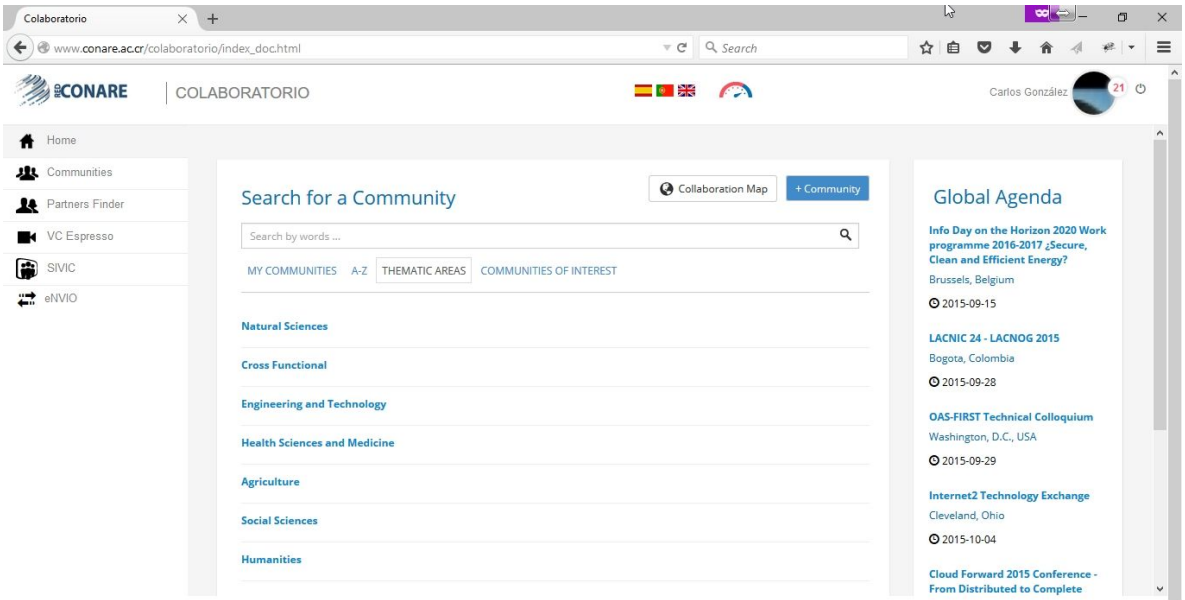
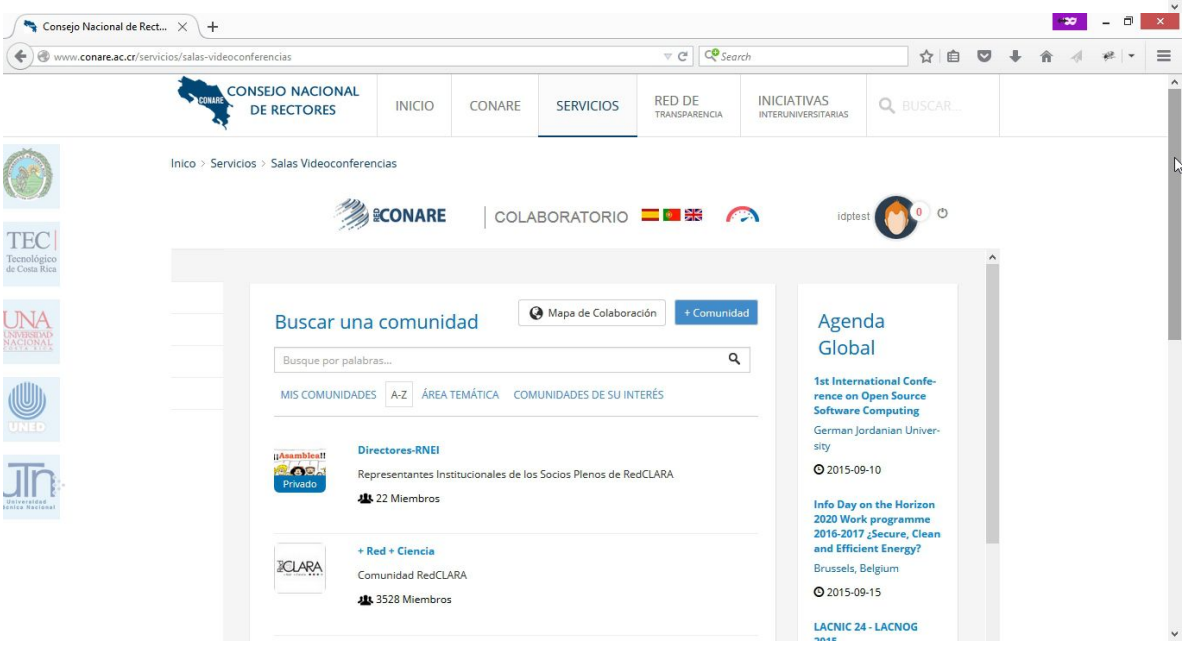
8.3. CONARE

URL	http://www.conare.ac.cr/colaboratorio/index_doc.html
Implemented on	August 2015
Responsible	Danny Silva dsilva@conare.ac.cr







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9. UNDERGOING INTEGRATIONS

In addition to the described work, the MAGIC project team has also made initial contacts and the evaluation work is on going with CUDI (Mexico), ASREN (Arab States) and UbuntuNet (Eastern and Southern Africa). While INNOVARED (Argentina) has a testing environment in place and further advance is expected in the following months.

10. CONCLUSION

The Colaboratorio service is growing, both in terms of geographical spread and in terms of the numbers of users. The MAGIC project is playing and important role in its development and adoption, while the deployments carried out by the NRENs themselves help to improve the service by providing feedback. The next steps in the MAGIC development will be:

a) To promote the adoption of Colaboratorio in other regions like South Africa, Middle East, and Europe.
b) To improve inter-operability by defining and working in the group management standards
c) To add more services, provided by different NRENs