

European Union's FP7 Programme
DG Connect
Directorate C: Excellence in Science
Unit C1: e-Infrastructure



Deliverable D2.7

AAI Implementation Phase II



A project of the Seventh Framework Programme (FP7)



This project is funded by the European Commission



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Periodical Progress Report

ELCIRA Deliverable: D2.7 - AAI Implementation Phase II

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Abstract: This deliverable will describe the result of project's execution phase in the last 4 months. It will include as well an update of the work plan for the entire project with an update of the risks.



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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

	Name	Member/Activity	Date	Responsible
From	Leandro Guimarães	WP2	17/10/2014	RNP
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1.- INTRODUCTION

Since we first thought about this project, we were sure that this work package was one that would be one of the most complicated to implement, due the complexity of the theme Authentication and Authorization Infrastructure (AAI - Identity Management) and the lack of knowledge and skills in the technical team in the target NRENs.

During the planning phase, we have discovered some heterogeneous environments. There was an NREN that was very interested in the topic, but they lacked the necessary manpower resources to work on it, at the other extreme, there was a NREN that planned to launch an Identity Federation, take it into production and study how to join the eduGAIN interfederation service.

This document will describe the results obtained in AAI implementation in Latin America during the project.

2.- INITIAL SCENARIO

When we have started this work package, we have defined the milestone to start the job; the MoU signed by the NREN's responsible. We thought that doing this we would raise the attention of the project to the member's directors while give the necessary power and support to technical staff to implement a federation. The Figure 1 shows the initial scenario in the beginning of 2013:

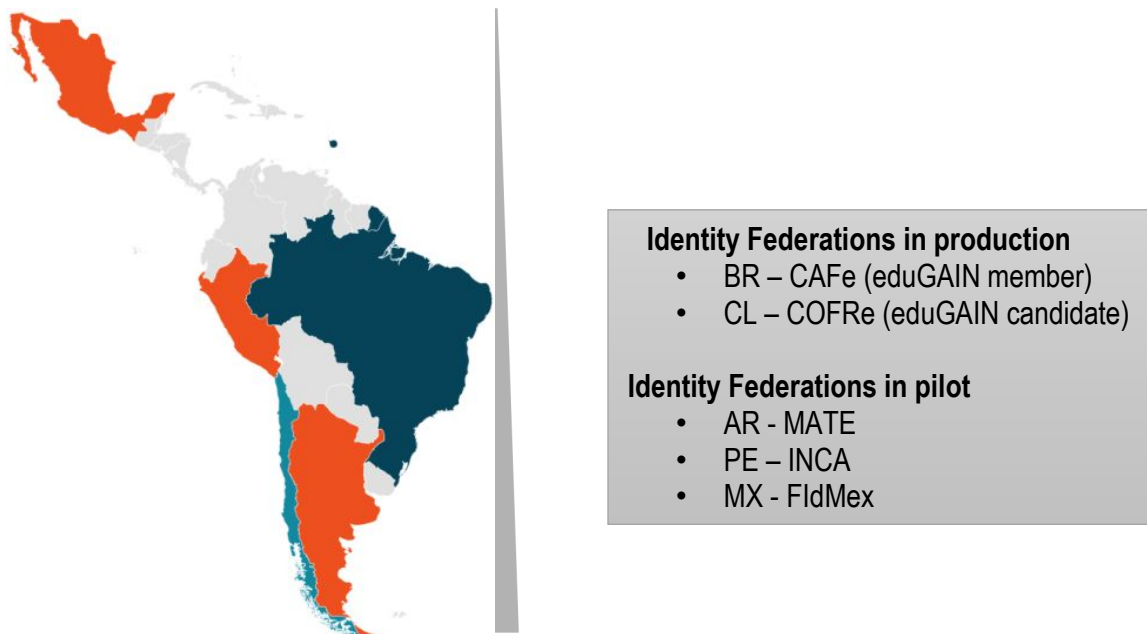


Figure 1: Identity Federation in January 2013.

As described in “Deliverable D2.1 - Roadmap for the delivery and deployment of National AAI in Latin America”, during the kickoff meeting in Lima, Peru in July, 5th, 2012, three countries were identified as federation startups: Chile, Peru and Colombia. After this date, Mexico and Argentina also expressed interest.

The next section will provide more details on the development of federations in Latin America.

3.- CHILE - THE FEDERATED COMUNITY REUNA (COMUNIDAD FEDERADA REUNA OR COFRE)

Since 2011, REUNA (Red Universitaria Nacional) has been working to establish a Chilean Federation to its partners and clients. In this context, since 2012 CONICYT (Comisión Nacional de Investigación Científica y Tecnológica, <http://www.conicyt.cl/>), as a founder member of the Corporation Cincel and BEIC (Biblioteca Electrónica de Información Científica - <http://www.beic.cl/>) Program participant, has adopted the Chilean Federation as central scheme to facilitate access to scientific collections to researchers.

Bellow some information regarding COFRE:

3.1 IDENTITY PROVIDER ORGANIZATIONS

- [Universidad del Bío-Bío.](#)
- [BEIC-CONICYT.](#)
- [REUNA.](#)

3.2 SERVICES PROVIDERS

- [Annual Reviews.](#)
- [Thomson Reuters Web of KnowledgeSM.](#)
- [GISELA Science Gateway.](#)
- [EBSCOHost \(EBSCO\).](#)
- [ScienceDirect](#) and [Scopus \(Elsevier\).](#)
- [Nature.](#)
- [Palgrave Journals.](#)
- [CRCnetBASE \(CRC Press\).](#)
- [SpringerLink](#) and [Springer for R&D \(Springer\).](#)



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The Figure 2 shows the webpage from COFRE, available at: <http://cofre.reuna.cl/index.php/en/>.

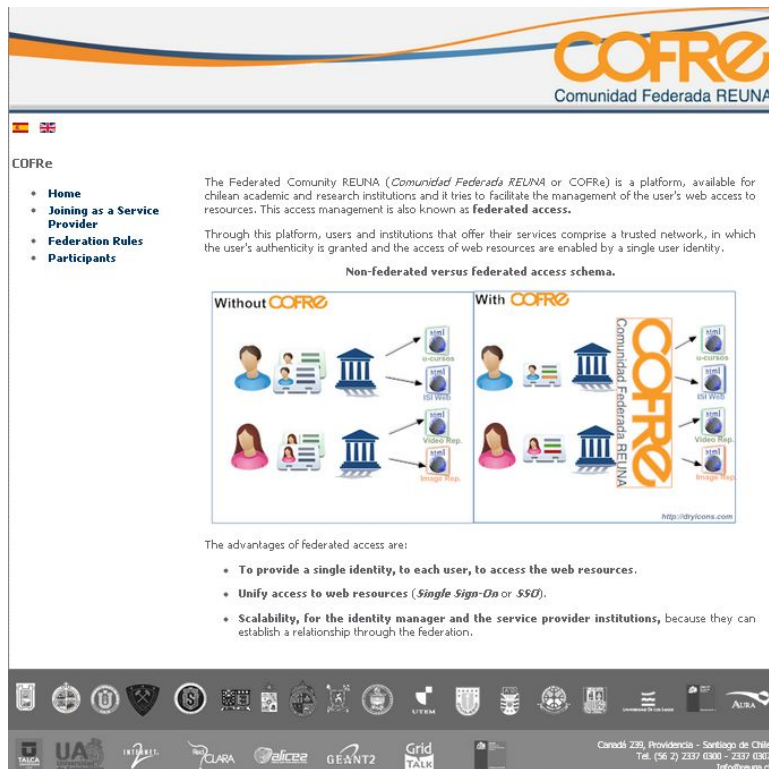


Figure 2: COFRE webpage.

Although work on the Chilean Federation had already begun when the ELCIRA Project started, the WP2 team helped REUNA to transition to production and eventually join eduGAIN.

In September 2013, REUNA has signed the MoU with ELCIRA Project, to cooperate in promoting the establishment and adoption of Identity Federations and additional services based on them (eduroam, eduGAIN, cloud services) in the country. This MoU was a concretion of a work that had been doing since the kick-off meeting in June 2012. In December, 2012, the meeting in Santiago, Chile, has helped to strengthen the relationship between ELCIRA and REUNA even more, so the project team and REUNA technical staff had started to work together in order to make COFRE part of eduGAIN, what was completed on October, 31st, 2013.



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eduGAIN membership status

eduGAIN members

- ▶ **Austria - ACONet Identity Federation**
- ▶ **Belgium - Belnet Federation**
- ▶ **Brazil - CaFe**
- ▶ **Canada - Canadian Access Federation**
- ▼ **Chile - COFRE**
 - eduGAIN policy**
version 2 signed on:2013-06-06
[see the scan](#)
 - eduGAIN policy hardcopy received version**
2
 - Metadata URL**
<http://cofre.reuna.cl/edugain/cofre-edugain-metadata.xml>
[validate this metadata set](#)
 - Registration Authority**
<http://cofre.reuna.cl>
 - Federation page**
<http://cofre.reuna.cl/>
 - Contact email**
cofre@reuna.cl
 - SG delegate**
Alejandro Lara
 - SG deputy**
Sandra Jaque
 - Policy**
<http://cofre.reuna.cl/index.php/en/federation-rules>
 - Supplied English version of the Policy**
yes
 - Registration practice statement**
http://cofre.reuna.cl/images/Docs/identity_federation_rules.pdf

Figure 3: eduGAIN status webpage.



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4.- COLOMBIA – COLFIRE - COLOMBIA FEDERACION DE IDENTIDADES RENATA

The Colombian team in RENATA (Red Nacional Académica de Tecnología Avanzada) had been focused on eduroam implementation initially then started to work on an identity federation. The RENATA IdP was installed, validated, and integrated with active directory, linked to a SP without inconvenience and performing authentication. They have created the Discovery Service and all policies involved to have the Colombian Federation launched. The webpage was created and is available at <http://colfire.co/>.

COLFIRE was accepted officially in eduGAIN in October, 8th, 2014.

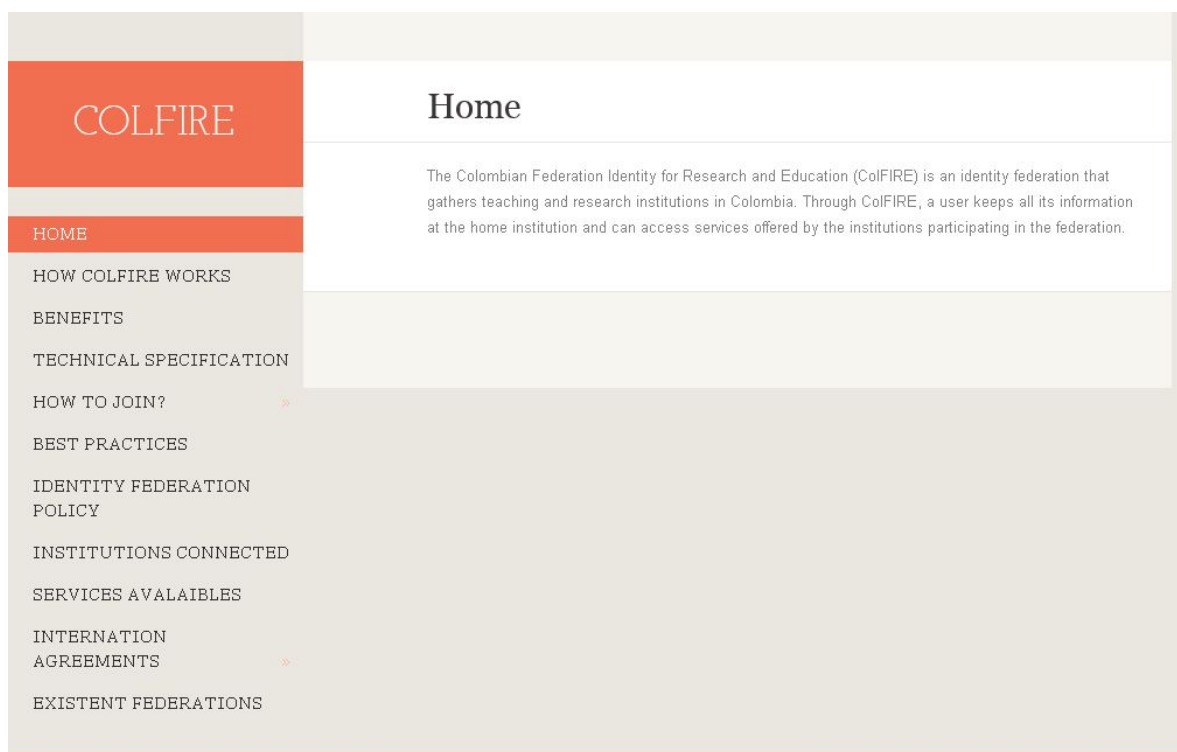


Figure 4: COLFIRE webpage.



Joining eduGAIN

▶ **Argentina - MATE (policy signed - not supplying metadata)**

▶ **Australia - AAF (policy signed - information missing)**

▼ **Colombia - COLFIRE (policy signed)**

eduGAIN policy

version 2 signed on:2014-02-27

[see the scan](#)

eduGAIN policy hardcopy received version

2

Metadata URL

<http://ds.renata.edu.co/edugain/colfire-edugain.xml>

[validate this metadata set](#)

Registration Authority

<http://colfire.co>

Federation page

<http://colfire.co>

Contact email

tecnico@renata.edu.co

SG delegate

[Hernan Daniel Garcia Sifonte](#)

SG deputy

[Lucas Adolfo Giraldo Rios](#)

Policy

http://colfire.co/?page_id=55

Supplied English version of the Policy

yes

Registration practice statement

http://colfire.co/?page_id=55

Figure 5: eduGAIN status webpage.



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5.- ARGENTINA – MATE - MODEL FOR ACCESS TO TECHNOLOGY AND EDUCATION

The MATE Federation is the Identity Federation initiative for the Argentinean education and research institutions. The participation of Argentina in WP2 has started in the beginning of 2014 by InnovaRed (Red Nacional de Investigación y Educación de Argentina), with the support and collaboration of ELCIRA members (Brazil and Chile).

At this early stage, one of main targets is the test Federation infrastructure deployment for Web SSO between the community institutions. The webpage was created and is available at <http://www.federacionmate.gov.ar>.

MATE was accepted officially in eduGAIN in October, 8th, 2014.



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Figure 6: MATE webpage.

Joining eduGAIN

▼ Argentina - MATE (policy signed - not supplying metadata)

eduGAIN policy

version 2 signed on:2014-09-29

[see the scan](#)

eduGAIN policy hardcopy received version

2

Metadata URL

none provided

Registration Authority

<http://www.federacionmate.gob.ar>

Federation page

<http://www.federacionmate.gob.ar/>

Contact email

federacionmate@innova-red.net

SG delegate

[Angel Martinez](#)

SG deputy

[Javier Martinez](#)

Policy

<http://www.federacionmate.gob.ar/?q=en/soporte>

Supplied English version of the Policy

yes

Registration practice statement

<http://www.federacionmate.gob.ar/?q=en/soporte>

Figure 7: eduGAIN status webpage.



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6.- ECUADOR – MINGA

MINGA is the Ecuadorian federation for identity management supervised and administrated by CEDIA (Consortio Ecuatoriano para el Desarrollo de Internet Avanzado), this federation allows Universities, research facilities and CEDIA members to connect and use online services of the federation and others service providers having agreements with CEDIA (thirty party applications like libraries and research advanced services) always using the same identity credentials given by the institution member.

MINGA was not pointed, at the beginning of the project, as a potential federation because the project team have considered that Mexico, Colombia, Argentina and Peru were ahead of Ecuador in Identity Management, however they are very committed in all subjects they join in.

It was a good surprise taking part of its growth, and now MINGA is in production and it is part of eduGAIN. The webpage was created and is available at <https://www.cedia.org.ec/minga/>.

MINGA was accepted officially in eduGAIN in October, 8th, 2014.



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Figure 8: MINGA webpage.



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eduGAIN membership status

eduGAIN members E

- ▶ **Austria - AConet Identity Federation**
- ▶ **Belgium - Belnet Federation**
- ▶ **Brazil - CaFe**
- ▶ **Canada - Canadian Access Federation**
- ▶ **Chile - COFRé**
- ▶ **Croatia - AAI@EduHr (production - information missing)**
- ▶ **Czech Republic - eduID.cz**
- ▶ **Denmark - WAYF**
- ▼ **Ecuador - MINGA**

eduGAIN policy
version 2 signed on:2014-07-21
[see the scan](#)

eduGAIN policy hardcopy received version
2

Metadata URL
<https://minga.cedia.org.ec/metadata/minga-metadata-edugain.xml>
[validate this metadata set](#)

Registration Authority
<https://minga.cedia.org.ec>

Federation page
<http://www.cedia.org.ec/minga>

Contact email
info@cedia.org.ec

SG delegate
[Claudio Chacon A.](#)

SG deputy
[Carlos Guzman](#)

Policy
<http://www.cedia.org.ec/index.php/politicas-de-la-federacion>
<http://www.cedia.org.ec/index.php/policy>

Supplied English version of the Policy
yes

Registration practice statement
<http://www.cedia.org.ec/index.php/mprs>

Figure 9: eduGAIN status webpage.



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7.- MEXICO – FIDMEX (MEXICAN IDENTITY FEDERATION)

The project team started to talk with CUDI (Corporación Universitaria para el Desarrollo de Internet) team in the beginning of 2013, and the situation was very encouraging, due the forward status of Mexican Federation. The Mexican federation is hosted by UNAN (Universidad Nacional Autónoma de México) and is under development.

The Mexican Identity Federation is working to offer the following services:

- FIDMex: An IdP installed: idp.grid.unam.mx

Status: service is in production and is a partner in Identity Pool Grid Federation GrIDP.

- IdP and SP for courses platform DGEST: <https://sp.dgest.gob.mx/moodle>

Status: the service has not been released, under development.

- SP for the UCOL virtual services: <https://entidades.ucol.mx/>

Status: the service has not been released, under development.

- SP Science Gateway – fesc08.lcmdist.unam.mx

Status: under development.

- SP institutional digital repository that allows the publication and dissemination on the CUDI multimedia content

Status: under development.

The Figure 3 shows the webpage from FIDMex, available at:

<https://idf.grid.unam.mx/idp/Authn/UserPassword>.



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IdP Login Page for Mexican Advanced Computing Services for e-Science

This is the login page for getting access to the Mexican Identity Federation, hosted at UNAM.

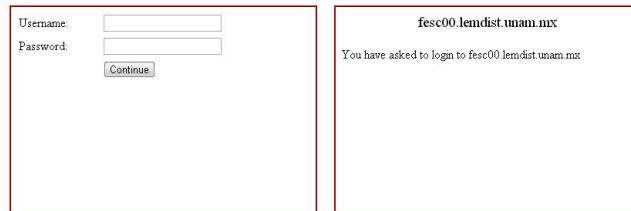


Figure 10: FidMex webpage.

The WP2 is working with technical staff of CUDI and UNAM in order to organize the federation, creating a Mexican Federation, managed by CUDI and operated by UNAM. The scope is assembling the Mexican Federation avoiding functional duplication.

Another duty is develop together with CUDI and UNAM, the necessary governance model and structure, to ensure the sustainability of the service.



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8.- ACTUAL SCENARIO

The eduGAIN voting process was a vote by simple majority from Tuesday 16th September 2014, until Tuesday 30th September 2014. There were 33 eduGAIN members at this point in time. The vote could have ended early if 17 votes in the affirmative were received before that time. Otherwise more positive than negative votes were required by the deadline. Only one (1) vote was accepted from an eduGAIN participant and the delegate/deputy should have determined who votes on behalf of their federation.

The result can be see below:












Participant	Argentina/MATE joining eduGAIN		Colombia/ColFIRE joining eduGAIN		Ecuador/MINGA joining eduGAIN		Updated
	I agree	I object	I agree	I object	I agree	I object	
 cphillips	✓	✗	✓	✗	✓	✗	⌚ 15 days
<i>I was able to sign in and vote here because we are part of eduGAIN.</i>							
 Pål Axelsson	✓	✗	✗	✗	✓	✗	⌚ 15 days
<i>Can't access the ColFIRE web site so I can't evalutate the application.</i>							
 Olivier Salaun	✓	✗	✓	✗	✓	✗	⌚ 15 days
 Zivan Yoash	✓	✗	✓	✗	✓	✗	⌚ 15 days
 Jānis Koreņevskis	✓	✗	✓	✗	✓	✗	⌚ 15 days
 Rhys Smith	✓	✗	✓	✗	✓	✗	⌚ 21 days
 Pascal Panneels	✓	✗	✓	✗	✓	✗	⌚ 22 days
 leandro.guimaraes	✓	✗	✓	✗	✓	✗	⌚ a month
 Alejandro Lara	✓	✗	✓	✗	✓	✗	⌚ a month
 Finn Dorph-Petersen	✓	✗	✓	✗	✓	✗	⌚ a month
 Martins Purins	✓	✗	✓	✗	✓	✗	⌚ a month
Summary	11	0	10	0	11	0	

Figure 11: polling results.

When we have started this work package, we defined a milestone to start the work, the MoU signing which involved the following countries.



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The Figure 12 shows REFEDS map in the October of 2014, available at:
<https://refeds.org/resources/index.html>.

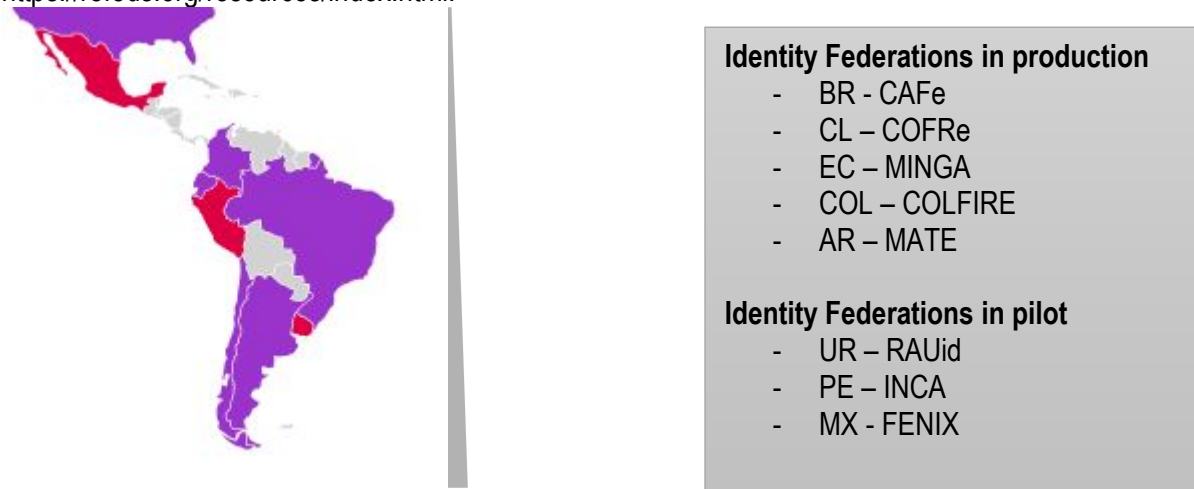


Figure 12: Identity Federation in October 2014.

To help future federations, the following stages were defined for the ELCIRA project and can be use even when the project ends.

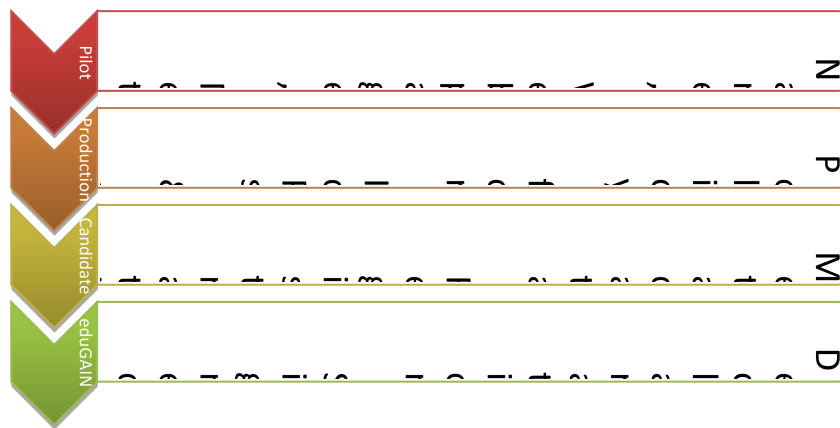
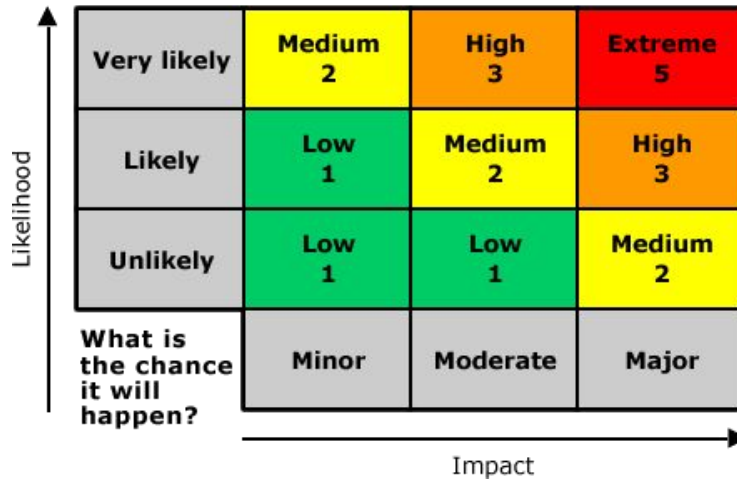


Figure 13: Identity Federation Stages within ELCIRA.

9.- RISK ANALYSIS UPDATE

It will include an assessment of the work plan for the entire project with identified risks and the mitigations to be applied.



Work Plan Item	Risk Assessment	Risk deadline	Mitigation	Risk update
Agreement on the collaboration relationship between the European eduGAIN and ELCIRA (MS2)	1 – Low	October, 2012	eduGAIN has welcomed new LA federations as a federation external to Europe. No barrier should be encountered for other LA federations.	MoU signed in June, 2013 (http://elcira.redclara.net). <i>Risk overruled</i>
Agreements with two NRENs to work on Federation Implementation (MS2)	3 – High	October, 2012	Three (3) specific NRENs have been targeted to overcome any delay in the signing of an agreement.	The MoUs were signed on: Argentina: April 4th, 2013 Costa Rica: April, 17th, 2013 Colombia: May, 22nd 2013 Mexico: June, 5th 2013 Chile: August, 23nd 2013 <i>Risk overruled</i>

Work Plan Item	Risk Assessment	Risk deadline	Mitigation	Risk update
Wiki of the 2 new Federation members (MS2)	1 – Low	October, 2012	REFEDS wiki catalogues all emerging and developing federations.	Still working with federations. <i>Risk overruled</i>
On line Training Material on AAI development for Staff training (D2.2)	1 – Medium	December, 2012	Training materials already exist but in English and Portuguese and the risk of a delay in translation can be overcome with alternative translators.	The training material was developed as described on D2.2 <i>On line Training Material on AAI development for Staff training.</i> <i>Risk overruled</i>
AAI Pilot Operational (MS9)	1 – High	March, 2013	Create commitment in the NRENs in order to implement the federation.	Still working with federations. <i>Risk overruled</i>



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