

# Agenda – Day Two

## 09:00 – 11:00 Bringing the Campuses to the Federation

- 09:00 Recap of Day One
- 09:30 Technologies at the Federation Level
- 10:00 Use Cases (Libraries)
- 10:00 Policies at the Federation Level
- *10:30-11:00 Tea Break*
- *11:00 Discussion*

## 12:00 – 13:30 Lunch

## 13:30 – 16:00 Federations in Practice

- 13:30 eduroam, eduGAIN and Social Identity Mapping
- *14:00 Global Outreach*
- 14:30 Business Plan
- *15:00-15:30 Tea break*
- *15:30 Discussion*

# WHY IDENTITY MANAGEMENT AND FEDERATIONS

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Brook Schofield, GÉANT

# Why Identity Management & Federation

**Brook Schofield**

eduGAIN Product Manager

GÉANT

Hong Kong

1<sup>st</sup> August 2016

# The computer lab



Image URL: [http://www.fox.temple.edu/cms\\_about-fox/technology/it/resources/computer-labs/](http://www.fox.temple.edu/cms_about-fox/technology/it/resources/computer-labs/)

# The Situation on Campus: Lots of Applications



- Applications for students and researchers
- Applications require authentication and authorization

# Identity Management...

- A solution to the exploding password systems
- Don't create “one more” in the hope that I will become “one less”.
- Pick an existing one
  - `/etc/passwd`
  - Library Management System
  - Student Enrolment System
- Pick tools that match your skillset



# More than one choice is good...

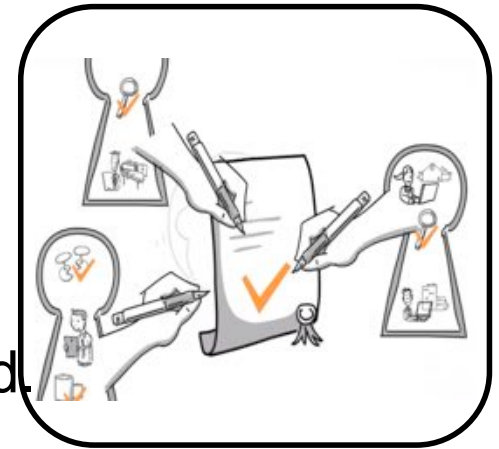
- [simpleSAMLphp](#)
  - PHP
  - Multi-lingual support
- [Shibboleth](#)
  - IdP is Java, SP is C/mod\_shib
  - Runs within Apache Tomcat/Java
- [PySAML2](#)
  - Python



- Benefits are greater than using LDAP.
- Many plug-ins or modules available for common tools.

# What NOT to focus on?

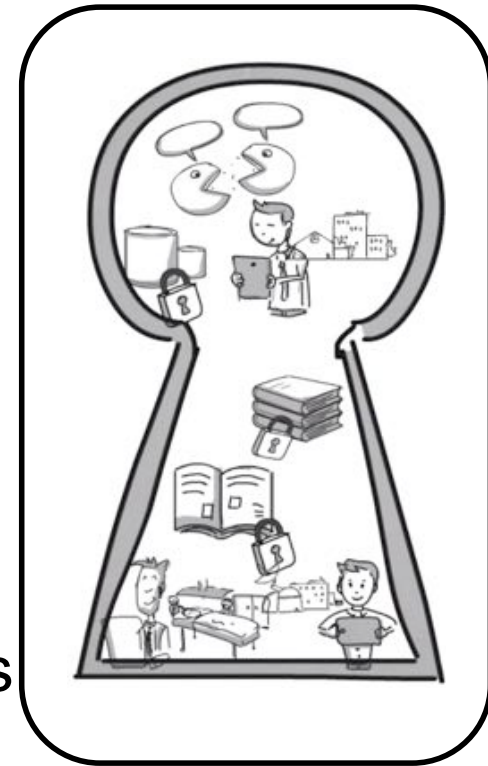
- Waiting until ...
  - NRENx has their federation in “production”.
  - NRENy is a member of eduGAIN.
  - A “killer app” is found.
- “Other” or Future Federation Technologies
  - OpenID Connect + OAuth are being explored.
  - Hub & Spoke gateways already exist.
- Policy vs Technical
  - You can focus on one (or the other, or both).





# What to focus on?

- Federating your campus systems
  - Talk to your researchers, staff & students
- Investigate key services
  - Intranet and Website
  - Webmail
    - Google Apps for Education, Microsoft 365
  - e-Learning – Moodle, Desire2Learn
  - Talk to your librarian about Journal Access
- Find your own “killer app”.



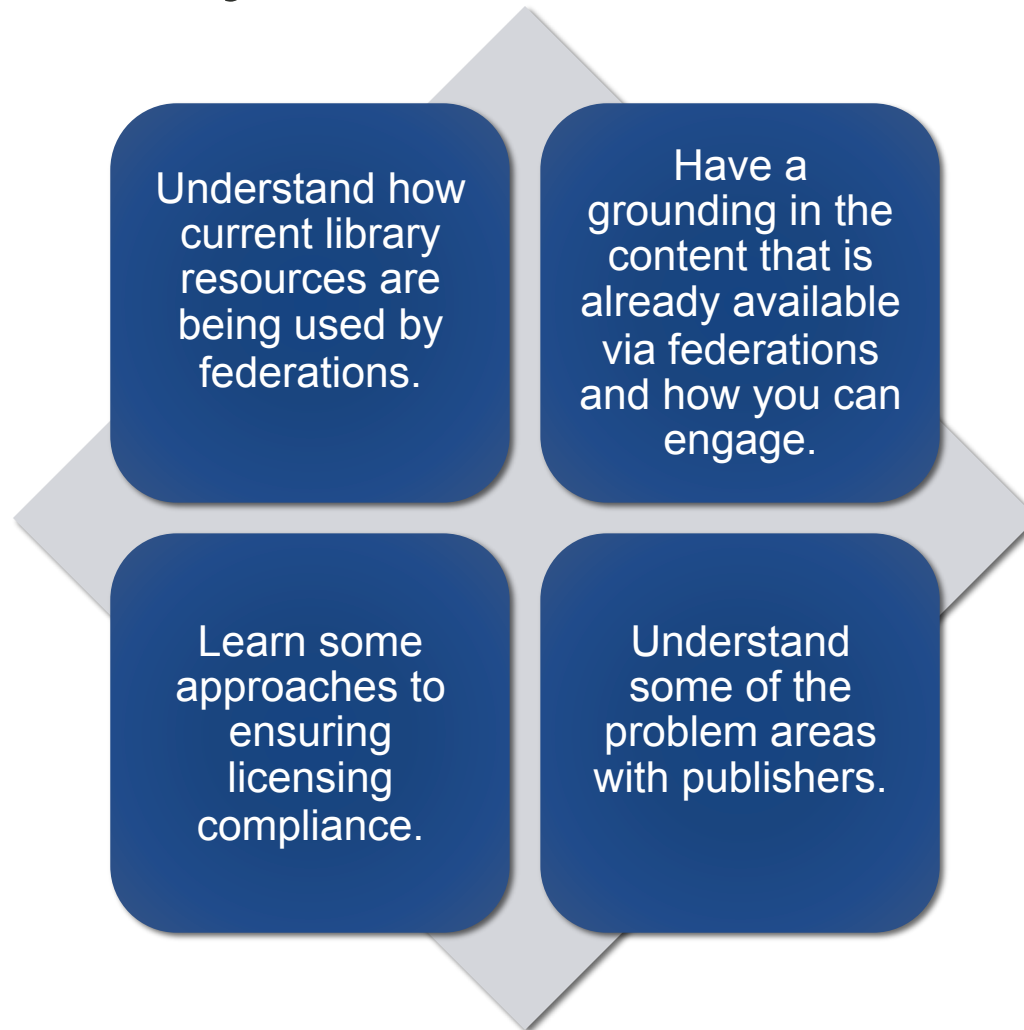
# DIGITAL LIBRARY CONTENT AND LICENSING

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Nicole Harris, GÉANT



# Learning Objective – Digital Library Content and Licensing



# Connecting People to Resources

# What can I use?

12507 Entities

3760 Identity Providers

8747 Service Providers

# MET is your friend!

## Most federated entities



Export ▾

EntityID	Type	Display Name	Federations	Number of Federations
<a href="http://shibboleth.ebscohost.com">http://shibboleth.ebscohost.com</a>	SP	EBSCO Information Services	ACOnet Identity Federation (eduID.at)   AmesAAI Federation   Australian Access Federation   Belnet Federation   CAF Federation   CARSI Federation   COFRe Federation   DFN-AAI   eduGAIN   Edugate Federation   eduID.cz   eduID.hu Federation   Fédération Éducation-Recherche   GakuNin Federation   Haka   IDEM federation   InCommon Federation   PIONIER Federation   RCTSaai Federation   SiR Federation   SWAMID Federation   SWITCHaai Federation   UK Access Management Federation   FEDUrus Identity Federation	24
<a href="https://sp.tshosting.com/shibboleth">https://sp.tshosting.com/shibboleth</a>	SP	Web of Knowledge	ACOnet Identity Federation (eduID.at)   AmesAAI Federation   Belnet Federation   CAF Federation   CARSI Federation   COFRe Federation   DFN-AAI   eduGAIN   Edugate Federation   eduID.cz   Fédération Éducation-Recherche   GakuNin Federation   IDEM federation   InCommon Federation   RCTSaai Federation   SWAMID Federation   SWITCHaai Federation   Tuakiri Federation   UK Access Management Federation   FEDUrus Identity Federation	20
<a href="https://e5.onthehub.com">https://e5.onthehub.com</a>	SP	e5.onthehub.com	ACOnet Identity Federation (eduID.at)   AmesAAI Federation   Australian Access Federation   Belnet Federation   CAF Federation   DFN-AAI   eduGAIN   Edugate Federation   Fédération Éducation-Recherche   GakuNin Federation   GRNET Federation   Haka   IDEM federation   InCommon Federation   RCTSaai Federation   SWAMID Federation   SWITCHaai Federation   Tuakiri Federation   UK Access Management Federation	19

<https://met.refeds.org/>

# MET is your friend!

## Federations summary

Total: 39

Export ▼

Name	Country	Entities	IDP	SP
<a href="#">AAI@eduHr Federation</a>	Croatia	3	1	2
<a href="#">ACOnet Identity Federation (eduID.at)</a>	Austria	146	42	106
<a href="#">AmesAAI Federation</a>	Slovenia	271	57	214
<a href="#">Australian Access Federation</a>	Australia	253	52	196
<a href="#">Belnet Federation</a>	Belgium	109	40	69
<a href="#">CAF Federation</a>	Canada	110	39	71
<a href="#">CAFe Federation</a>	Brazil	162	129	33
<a href="#">CARSI Federation</a>	China	133	84	49
<a href="#">COFRe Federation</a>	Chile	31	5	26
<a href="#">DFN-AAI</a>	Germany	490	218	272
<a href="#">Edugate Federation</a>	Ireland	147	42	106
<a href="#">eduID.cz</a>	Czech Republic	284	73	210
<a href="#">eduID.hu Federation</a>	Hungary	89	25	63


# MET is your friend!

Metadata Explorer Tool

**EBSCO Information Services**

Information retrieved from federation:

Entity ID:	<a href="http://shibboleth.ebscohost.com">http://shibboleth.ebscohost.com</a>
Entity type:	SP
Registration authority:	<a href="http://www.heanet.ie">http://www.heanet.ie</a> (since 11/10/2011)
Registration policy:	None
Federations:	<a href="#">ACOnet Identity Federation (eduID.at)</a>   <a href="#">ArnesAN Federation</a>   <a href="#">Australian Access Federation</a>   <a href="#">Belnet Federation</a>   <a href="#">CAF Federation</a>   <a href="#">CARSI Federation</a>   <a href="#">COFFE Federation</a>   <a href="#">DPN-AAI</a>   <a href="#">eduGAIN</a>   <a href="#">EduGate Federation</a>   <a href="#">eduID.cz</a>   <a href="#">eduID.hu Federation</a>   <a href="#">Fédération Éducation-Recherche</a>   <a href="#">GakuNin Federation</a>   <a href="#">Haka</a>   <a href="#">IDEM federation</a>   <a href="#">InCommon Federation</a>   <a href="#">PIONEER Federation</a>   <a href="#">RCTSaai Federation</a>   <a href="#">SIR Federation</a>   <a href="#">SWAMID Federation</a>   <a href="#">SWITCHaai Federation</a>   <a href="#">UK Access Management Federation</a>   <a href="#">FEDUrus Identity Federation</a>

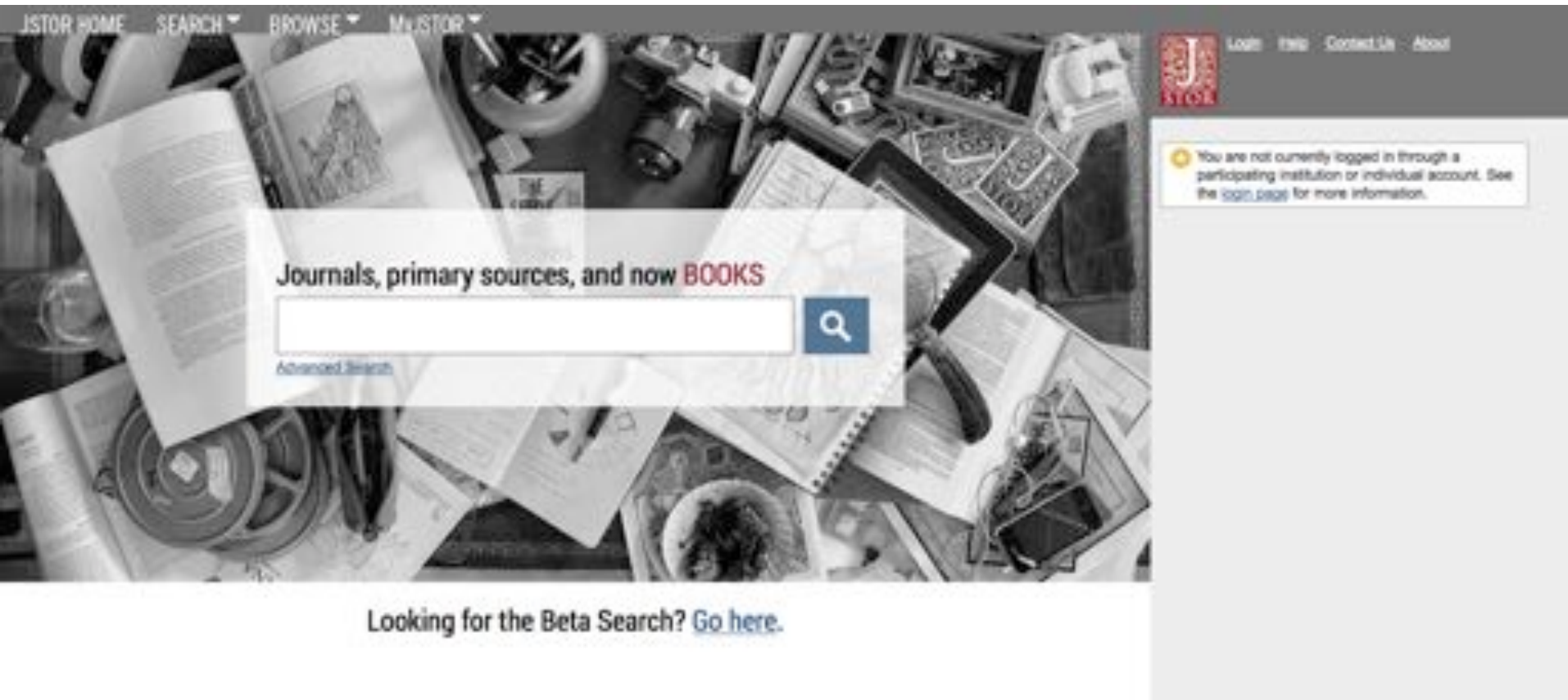


Entity properties:

Display name:	EBSCOhost
Description:	As the leading database and eBook provider for libraries and other institutions more than 375 full-text and secondary research databases and more than 300,000 eBooks and audiobooks available via the EBSCOhost platform EBSCO provides unparalleled access to world-renowned content in all subject areas including magazine and journal articles available via EBSCOhost
Information URL:	No information provided.



# Library Resources for Universities

The image shows the JSTOR homepage with a background collage of academic materials like books, a microscope, and a film reel. A central search bar is overlaid with the text "Journals, primary sources, and now BOOKS". The top navigation bar includes links for JSTOR HOME, SEARCH, BROWSE, and MyJSTOR. A login notification is present on the right side.

JSTOR HOME SEARCH BROWSE MyJSTOR

JSTOR

Log in Help Contact Us About

You are not currently logged in through a participating institution or individual account. See the [login page](#) for more information.

Journals, primary sources, and now **BOOKS**

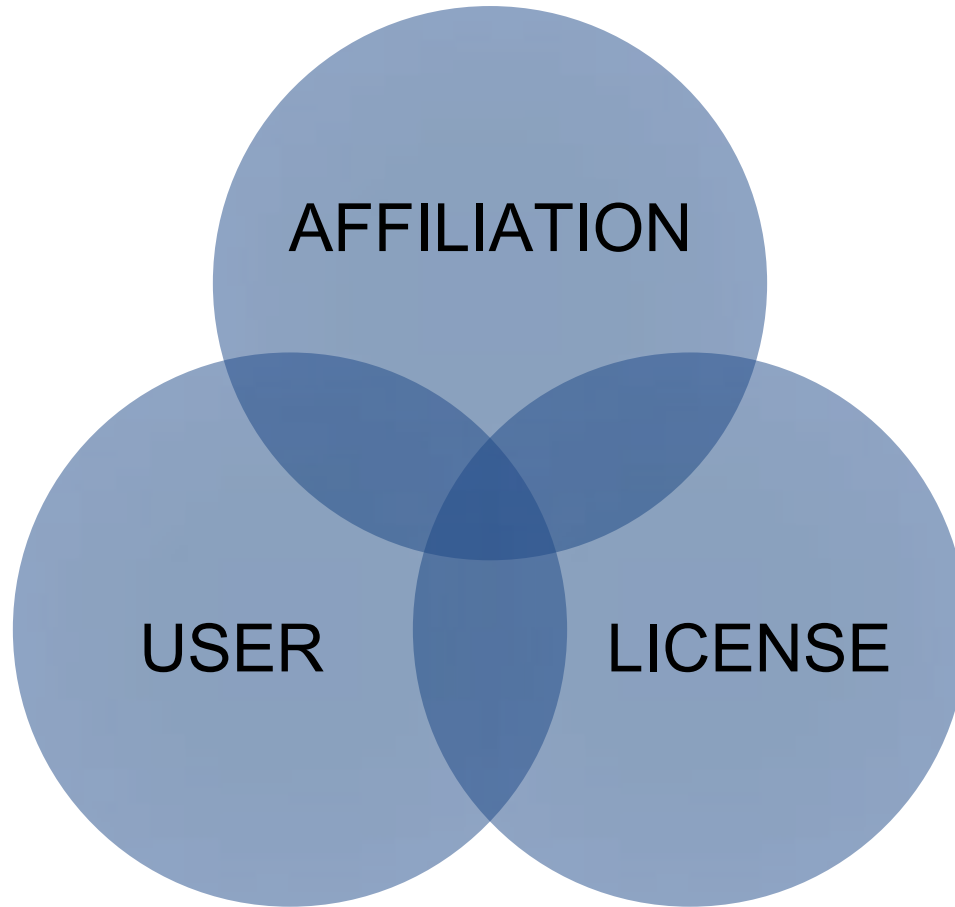
[Advanced Search](#)

Looking for the Beta Search? [Go here.](#)

# Library Resources for Schools



# Why is it a good fit?



# Licensing – Jisc Collections

“provide access to the Material by UK Access Management Federation for Education and Research compliant technologies as a member of /and to join the UK Access Management Federation for Education and Research, subject to securing any necessary permissions, licences or consents (including, without limitation, any necessary permissions, licences or consents in respect of Intellectual Property Rights).”

# Issues - Discovery

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Username:

Password:

☒ Remember me

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OpenAthens login

Login via your institution

Other institution login

Forgotten username or password?

3,415 ScienceDirect

Health and Biological Sciences

Business, Management and Accounting

Decision Sciences

Economics, Econometrics and Finance

Browse all titles

## Login via your institution

You may be able to login to ScienceDirect using your institution's login credentials. [Learn more](#)  
We will remember your login preference the next time you access ScienceDirect from this computer.

- Select your region or group
- ACOnet Identity Federation (Austria)
  - Ames AAI (Slovenia)
  - Australian Access Federation (AAF)
  - Belnet R&E Federation (Belgium)
  - CAFe Federated Academic Community - Brazil
  - COBISS AAI Federation
  - COFRé - Comunidad Federata REUNA (Chile)
  - Canadian Access Federation
  - China CERNET Federation (CARSII)
  - China CSTCloud Federation
  - Corporate Customers
  - Croatian Research and Education Federation - AA@Edu.hr
  - Czech Academic Identity Federation (eduID.cz)**
  - Danish Universities and Higher Education (WAYF)
  - Dayton IT Test Federation
  - Dutch Universities
  - French universities and grandes écoles (RENATER)
  - German Higher Education & Research (DFN-AAI)
  - HEAL-Link(aai) (Greece)

Select your region or group

Go

name from the results below to login.

[View All Institutions](#)

# discovery.refeds.org

## REFEDS DISCOVERY GUIDE

REFEDS demonstrates the most effective way to present federated identity to users of your site, with best practice and examples of how to provide the best experience.

### BEST PRACTICE GUIDE

In just 4 simple steps you can learn the key recommendations from the NISO ESPRESSO report and find out how to implement federated login in a way which protects your brand, improves user satisfaction, and increases successful logins.



### DISCOVERY DEMO

See a guided demo of how to implement the best practice guide with visual demonstrations of how to, and how not to, use federated login effectively.



[VIEW THE BEST PRACTICE GUIDE](#)

[VIEW THE DISCOVERY DEMOS](#)



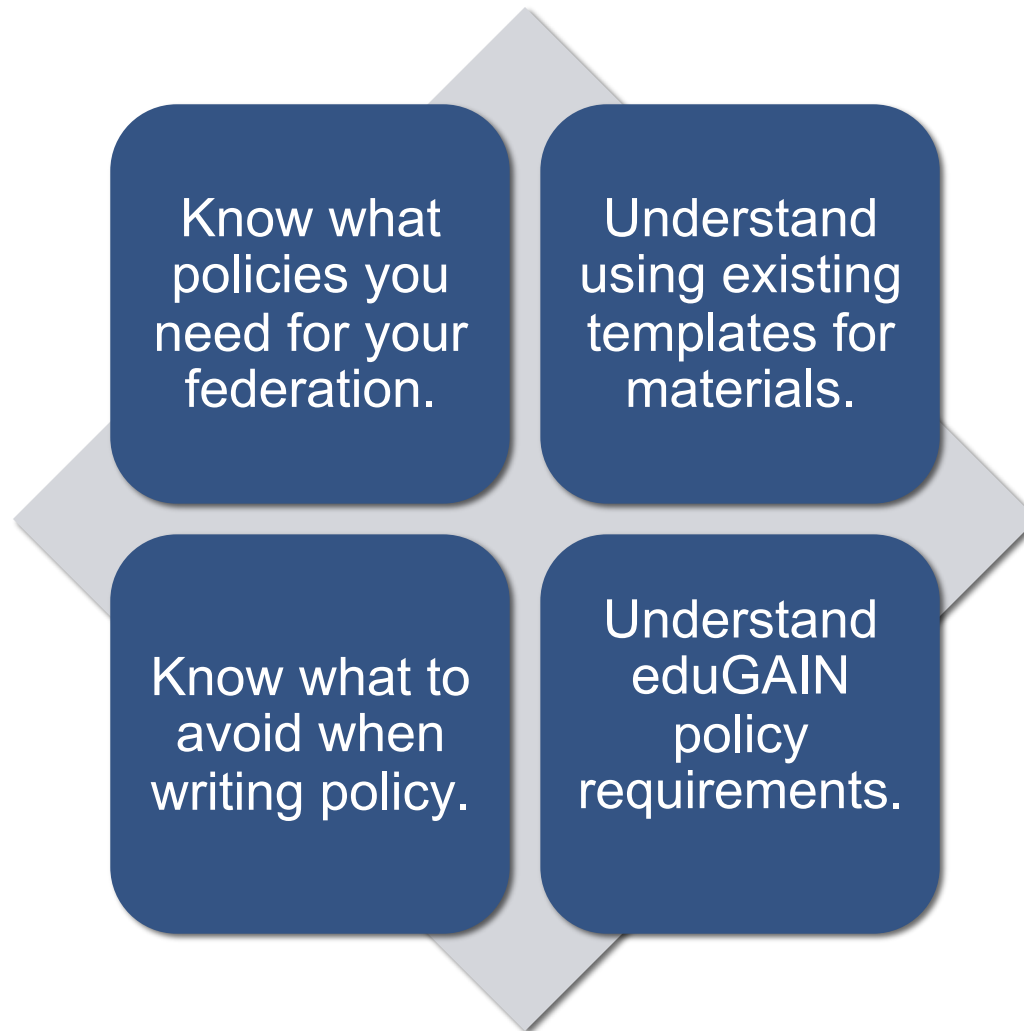
# POLICIES AND PRACTICES FOR A FEDERATION

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Nicole Harris, GÉANT

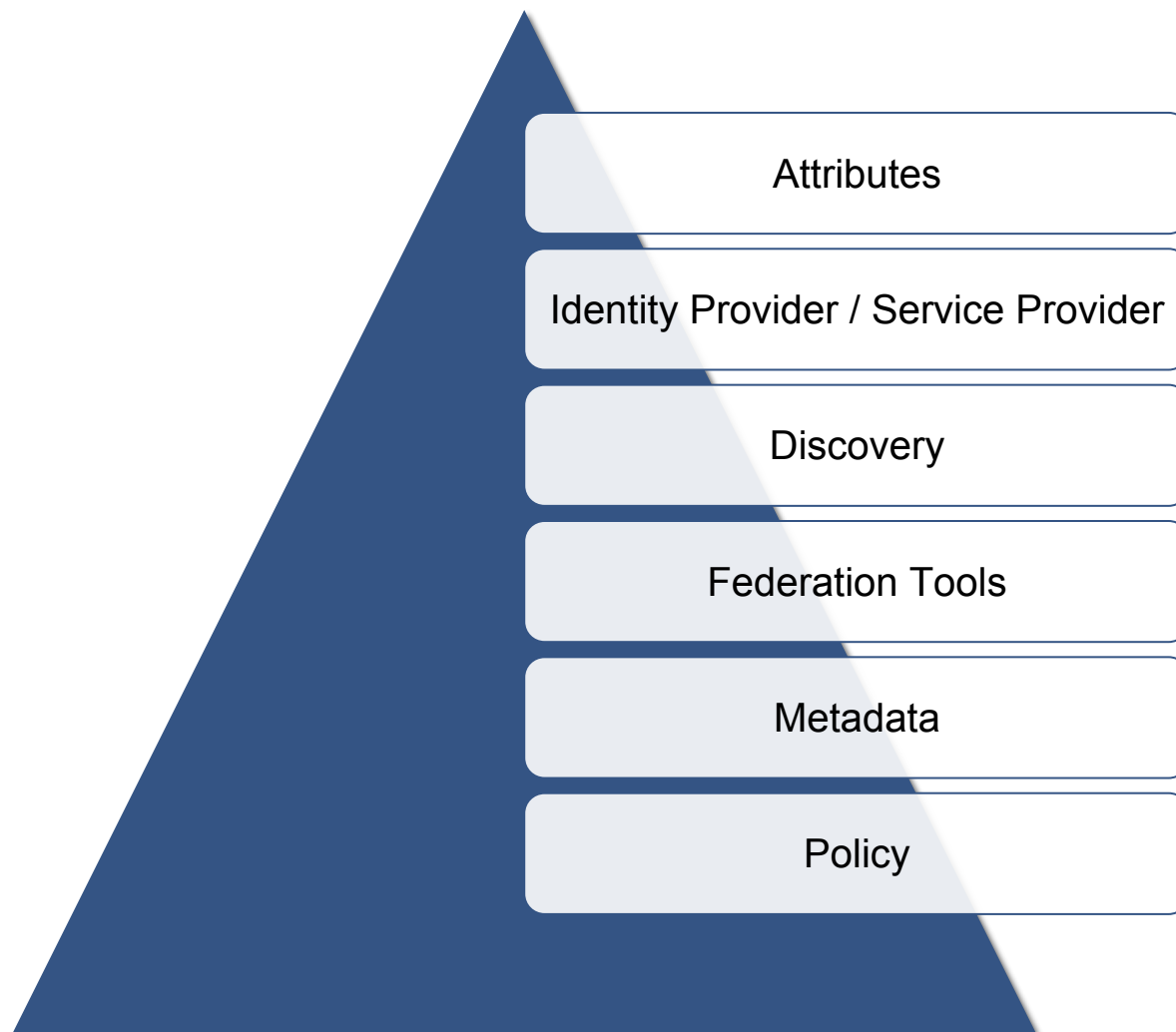


# Learning Objectives - Policies and Practices

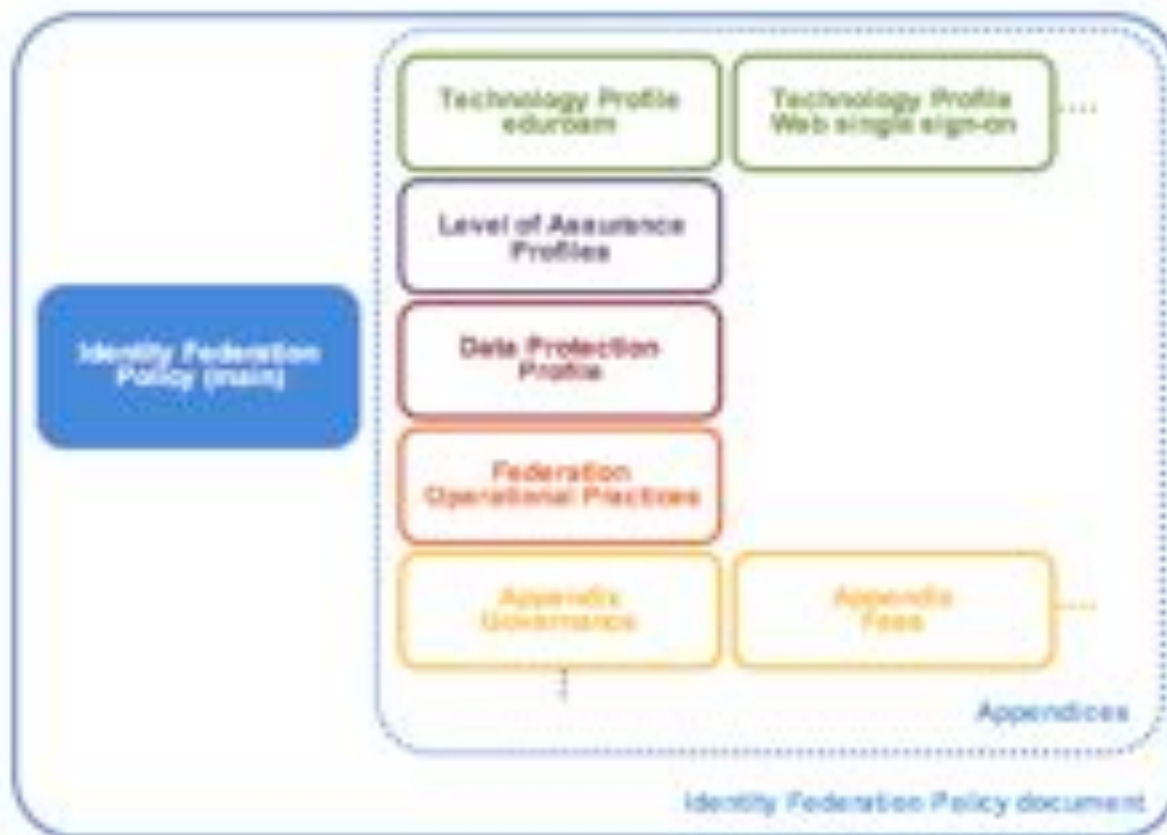




# Building Blocks of Federation



# Document Structure



# Federation Policies



UK Access Management Federation for  
Education and Research

## Rules of Membership

1<sup>st</sup> August 2011



### TERMO DE COMPROMISSO PARA ADESAO A FEDERACAO CAFe

Pelo presente, a organizao identificada neste Termo, ora denominada PARTICIPANTE, adoe a este documento e assume a responsabilidade pela utilizao dos servios disponibilizados pela Comandade Acadmica Federada, doravante denominada simplesmente CAFe, sobre os "Polticos de Uso da Federao CAFe: provedores de servio", e os "Polticos de Uso da Federao CAFe: provedores de identidade", conforme adiante descrito.

**PARTICIPANTE** (**nome da instituio**) (com sede na **localidade**), neste ato representado por (**nome completo do titular**), doravante denominado (**titular da instituio**).

O presente Termo considera que:

- a) A Federao CAFe e composta por um conjunto de instituies que, sobre uma infraestrutura de autenticao e autorizao multi-institucional, estabelece uma rede de confiana que simplifica e assegura a comunicao federada; e
- b) A CAFe tem como finalidade o gerenciamento dos processos de disponibilizao, confiabilidade e monitoramento do Servio da CAFe, assim como apoiar a homologao visando a adeso de novos Provedores de Identidade e Provedores de Servio na Federao CAFe, bem como o suporte a atualizao e monitoramento contnuos;
- c) a **NIE** e a **PARTICIPANTE** tm interesse comum na manuteno e desenvolvimento da Federao CAFe com o objetivo de simplificar o processo de Autenticao e Autorizao entre as instituies participantes;
- d) a **PARTICIPANTE** tem interesse em integrar a Federao CAFe como Provedor de **provedores de servio** para beneficiar da comandade de identidade, proposta e cultura.

Por tanto, a **PARTICIPANTE** se obriga e se compromete a que se segue:

### 1 - DO OBJETO

1.1 - O presente Termo tem por objeto estabelecer as diretrizes de participao, a serem realizadas com o apoio recebido, da CAFe.

RediRIS Identity Service

Conditions of Use for Identity Providers

### RediRIS Identity Service Conditions of Use for Identity Providers Version 1.0 – 20080220

I, the undersigned, as applicant for the identity transfer services provided by the RediRIS Identity Service (RIS), to be used by the identity provider, identified by its URL, unique ID, and public key included at the end of this document, referred to in the rest of this document as "the Applicant" declares that:

1. Knows and accepts the rules, procedures and technical requirements for the connection of their identity management system with the RediRIS identity service, as specified at <http://www.rediris.es/ucp/>. Applicant accepts the appropriate changes that may take place, and that will be communicated with the Applicant through the service website, and directly to the RediRIS Official Liaisons ("Personas de Enlace con RediRIS", referred to as "PELs" in the rest of this document) of the corresponding affiliated institution.
2. Knows that breaking these conditions can imply the discontinuation of the service.
3. Declares that data included in this document are accurate, apart from or omission in good faith.
4. Commits to permanently update the information included in this document, informing the PELs of any change that takes place.
5. Assumes that RediRIS, in all procedures related to service provision, will act according to the data provided in this document.
6. Knows and accepts that any delay or error in the data included in this document can be cause of the discontinuation of the service.
7. Knows and accepts that once the service is active it can be revised in case of violation of the requirements.
8. Knows and assumes that the service can be revisited in case of serious technical negligence.
9. Declares that, according to their best knowledge, the connection of the identity provider identified below with the RediRIS Identity Service does not harm the rights of any third party.
10. Knows and accepts that the service is provided by RediRIS in non-commercial terms for its users in the research and academic community, and that RediRIS shall not be held liable for any damage incurred, directly or indirectly, by the usage of the service.
11. Knows and assumes that RediRIS will perform personal data processing according to Ley Orgnica 15/1999 on Personal Data Protection and the regulations developing it.
12. Knows and assumes that the rights to access and rectification can be exercised according to the above mentioned regulations. The rights to cancellation and opposition can only be exercised after the discontinuation of the service, since personal data processing by RediRIS is required for the use of the RediRIS Identity Service.



# All the Federation Policies



# What is a Federation “Policy”?

The Federation Policy document defines the Federation by defining the Federation Members’ obligations and rights to be able to use available Federation Technologies for electronic identification and for access to attribute and authorisation information about End Users in the Federation.

# Contents of Policy

## Definitions and Terminology

## Introduction

## Governance and Roles

- Governance
- Obligations and Rights of Federation Operator
- Obligations and Rights of Federation Members

## Eligibility

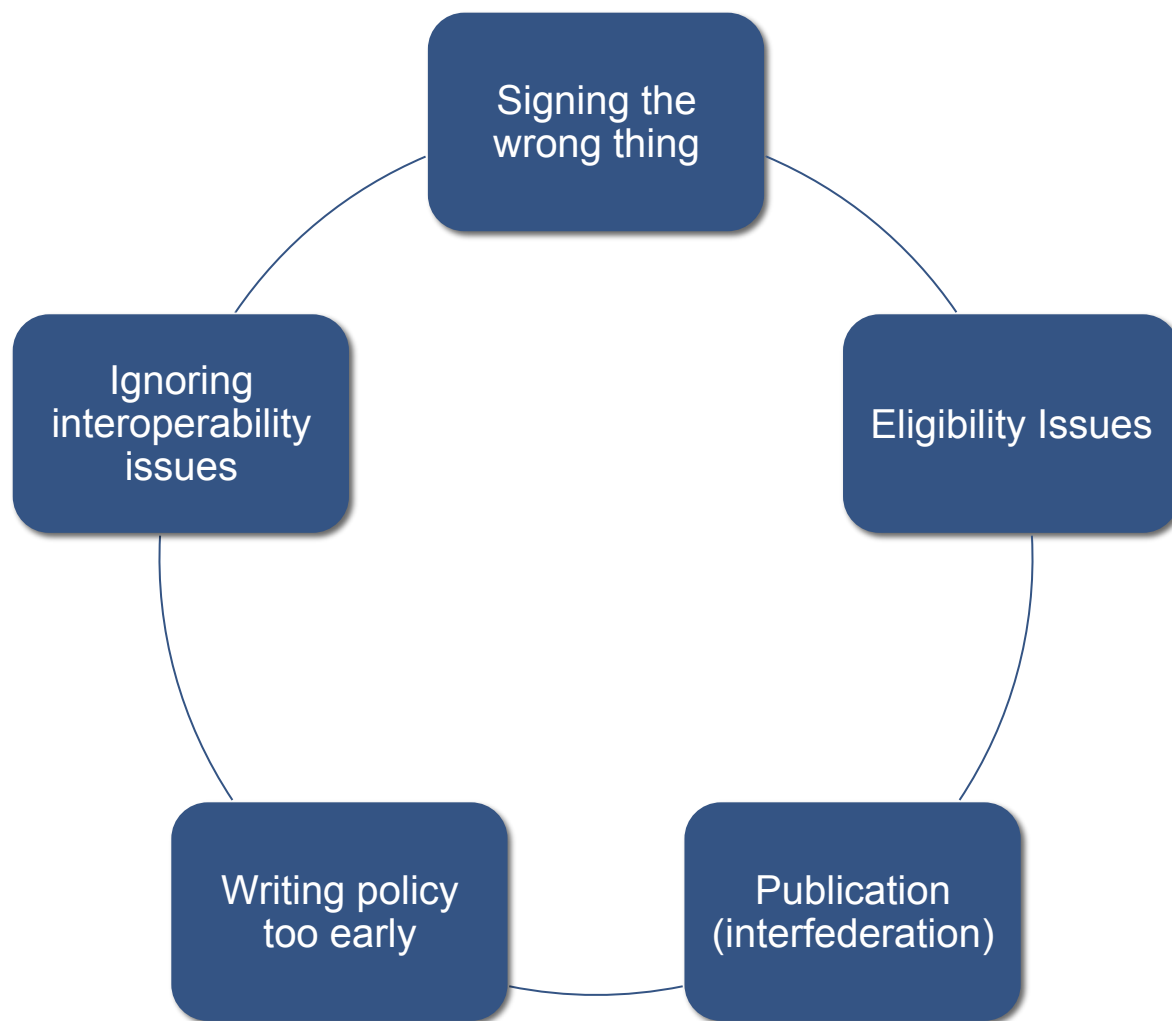
## Procedures

- How to Join
- How to Withdraw

## Legal conditions of use

- Termination
- Liability and indemnification
- Jurisdiction and dispute resolution
- Interfederation
- Amendments

# Common Mistakes



# Eligibility





# Publication



“The Member grants the Federation Operator the right: to publish and otherwise use and hold the Metadata for the purpose of administering the operation of the Federation; to publish the Member’s name for the purpose of promoting the Federation.”

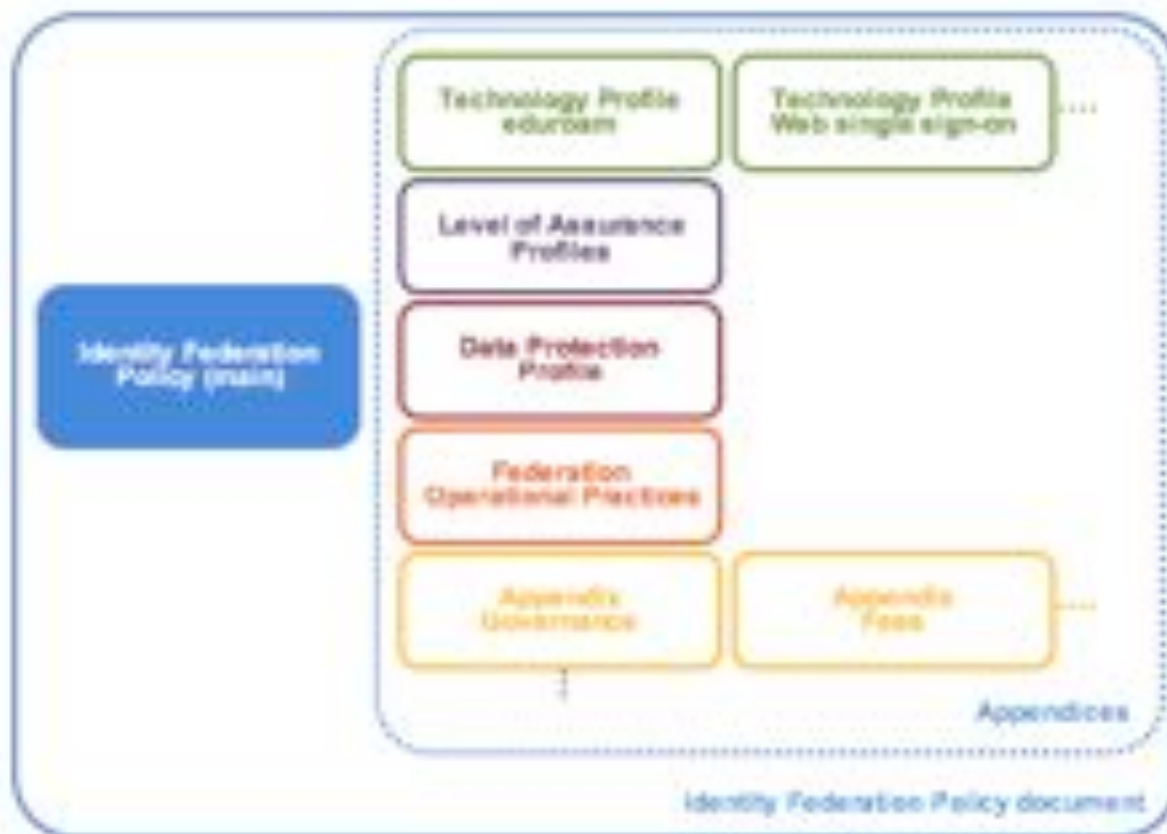


“In order to facilitate collaboration across national and organisational borders SWAMID MAY participate in interfederation agreements.”



“This Agreement governs the Edugate Federation’s national access management federation only. For the avoidance of doubt this Agreement does not apply to interfederation access, confederation access or metadata exchange.”

# What else do you need?



# REFEDS templates and support

## Federation-Best-Practice Home

Created by Nicole Harris, last modified on Dec 11, 2015

REFEDS offers a wide range of advice and guidance on best practice for research and education federations. This space is divided into the following sections:

### ① Value Proposition

REFEDS has created a document describing the value proposition for federations. This is a good place to start if you are considering implementing an identity federation and need more background information and support.

### ① Business Case

JISC created a Business Case document to help identify Providers make the case internally for the work required to implement SAML. The document was written at the beginning of the UK Access Management Federation but is still valid and a valuable resource.

### ① Policy Template

The GÉANT project created a Federation Policy Template to help new and emerging federations quickly understand the requirements for federation policy and to support an interoperable approach to policy creation and implementation. Federations are encouraged to use this template.

### ① Metadata Registration

Understanding the Metadata Registration Practices of federations is key to understanding the trust framework for the federation. REFEDS and GÉANT have created a template Metadata Registration Practice Statement and federations are encouraged to use this template. This statement is a requirement for federations joining eduGAIN.

<https://wiki.refeds.org>

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# DISCUSSION

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Heather Flanigan, REFEDS & NSRC

Nicole Harris, REFEDS & GÉANT

Brook Schofield, GÉANT

Terry Smith, AAF

# EDUROAM, EDUGAIN AND SOCIAL IDENTITY MAPPING

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Brook Schofield, GÉANT

# **eduroam, eduGAIN and Social Identity Mapping**

**Brook Schofield**

eduGAIN Product Manager

GÉANT

Hong Kong

1<sup>st</sup> August 2016

# The computer lab



Image URL: [http://www.fox.temple.edu/cms\\_about-fox/technology/it/resources/computer-labs/](http://www.fox.temple.edu/cms_about-fox/technology/it/resources/computer-labs/)



# University Modem Pool



Image URL: <http://www.epicycle.org.uk/weblog/2003/feb2003-2.htm>

Image URL: <http://encyclopedia2.thefreedictionary.com/modem>

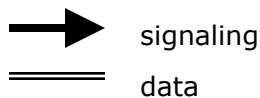
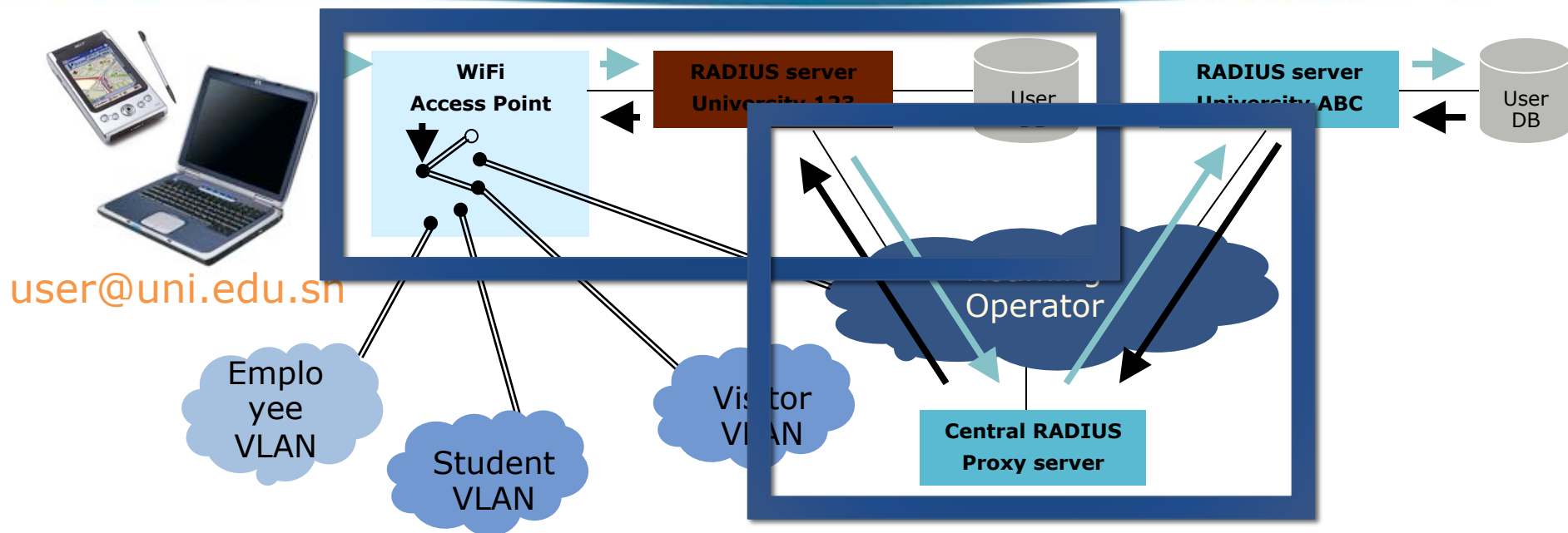


education roaming

Secure Wireless Service  
for Research and Education

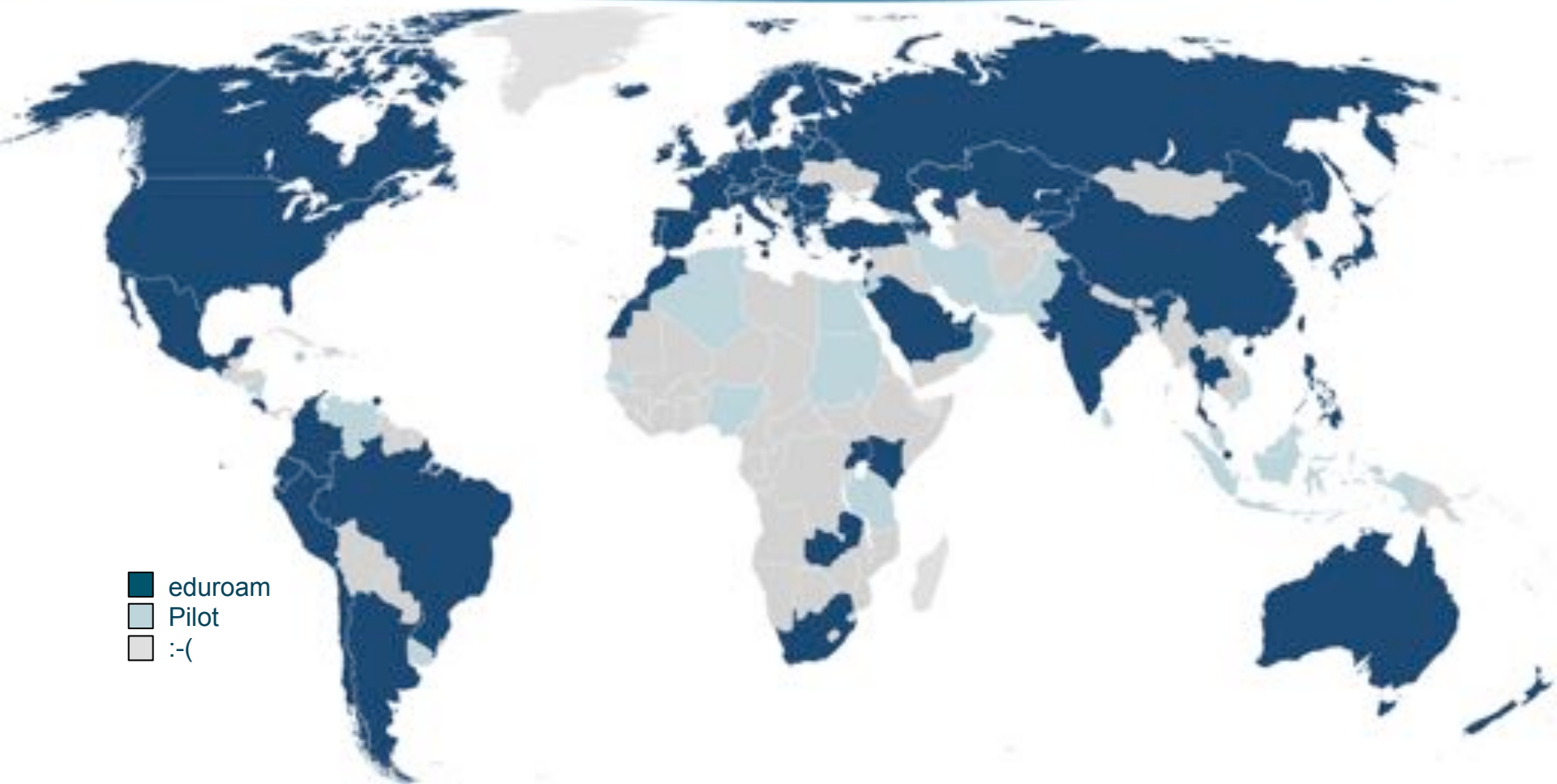


# eduroam Infrastructure



- Trust based on national policy
- Security based on 802.1X/RADIUS
- VLAN assignment to separate users

# Where is eduroam?









Altitude 727m

Lat 51.5030°

Lon 1.5446°

Dist 4 meters

Heading 28.4 (2009 to 20.4.2009)

Select first/next value

# eduroam in Asia/Pac

- 5 production deployments  
Kenya, Morocco, Uganda  
South Africa, Zambia
- 7 pilot deployments  
Nigeria, Senegal, Algeria, Egypt,  
Sudan, Tanzania, Tunisia.

# Back into the computer lab



Image URL: [http://www.fox.temple.edu/cms\\_about-fox/technology/it/resources/computer-labs/](http://www.fox.temple.edu/cms_about-fox/technology/it/resources/computer-labs/)



# The Situation on Campus: Lots of Applications



- More applications for students and researchers
- Applications require authentication and authorization

# Solution #1: LDAP

- Centralised Password & Account Storage
- Re-use of Accounts/Password across applications
- Focus password security at one location
- One account for all applications



Image URL: <http://www.volkanoransoy.com/>

# Solution #2: Web Single Sign-On (SSO)

- Centralised Account Login
- Re-use of Accounts across applications without another login (while your session is valid)
- No Man-in-the-Middle password attack from LDAP connected applications
- Still limited to the campus...

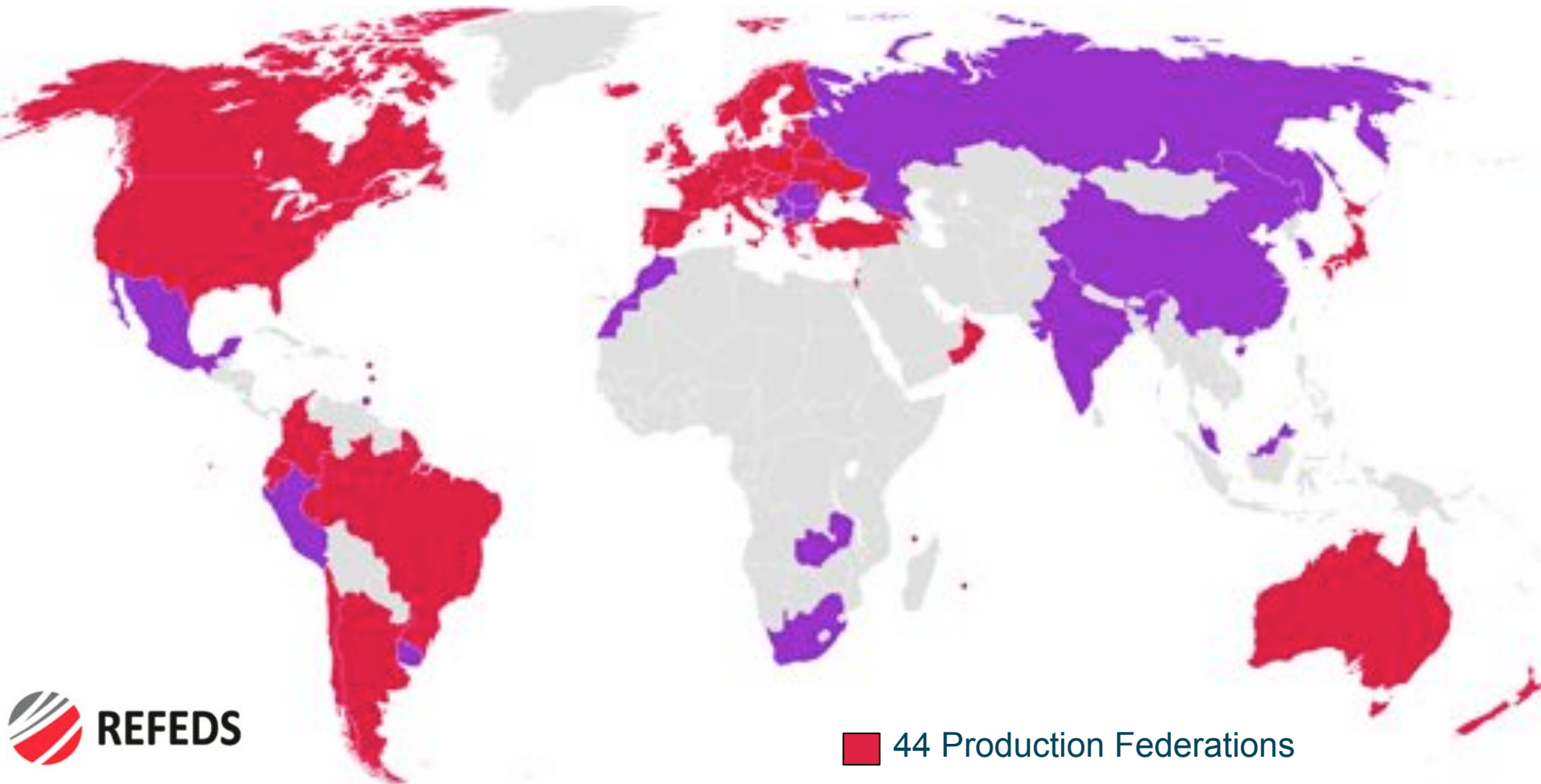


# Solution #3: Federations

## Lots of Federations



# Identity Federations: World Wide





# No interconnection between federations

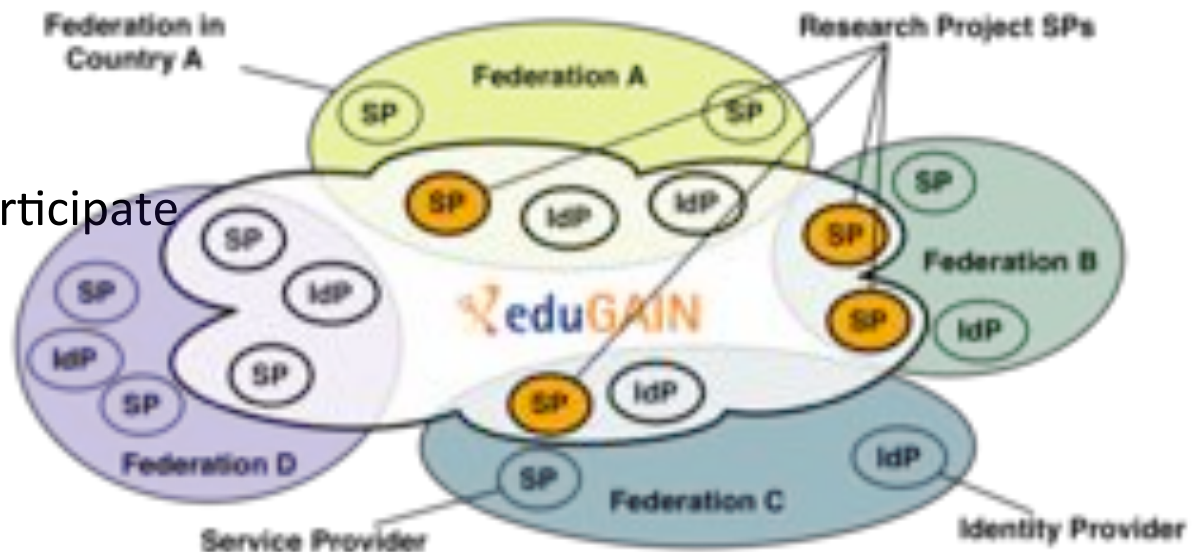


# Global Authentication Infrastructure

 eduGAIN

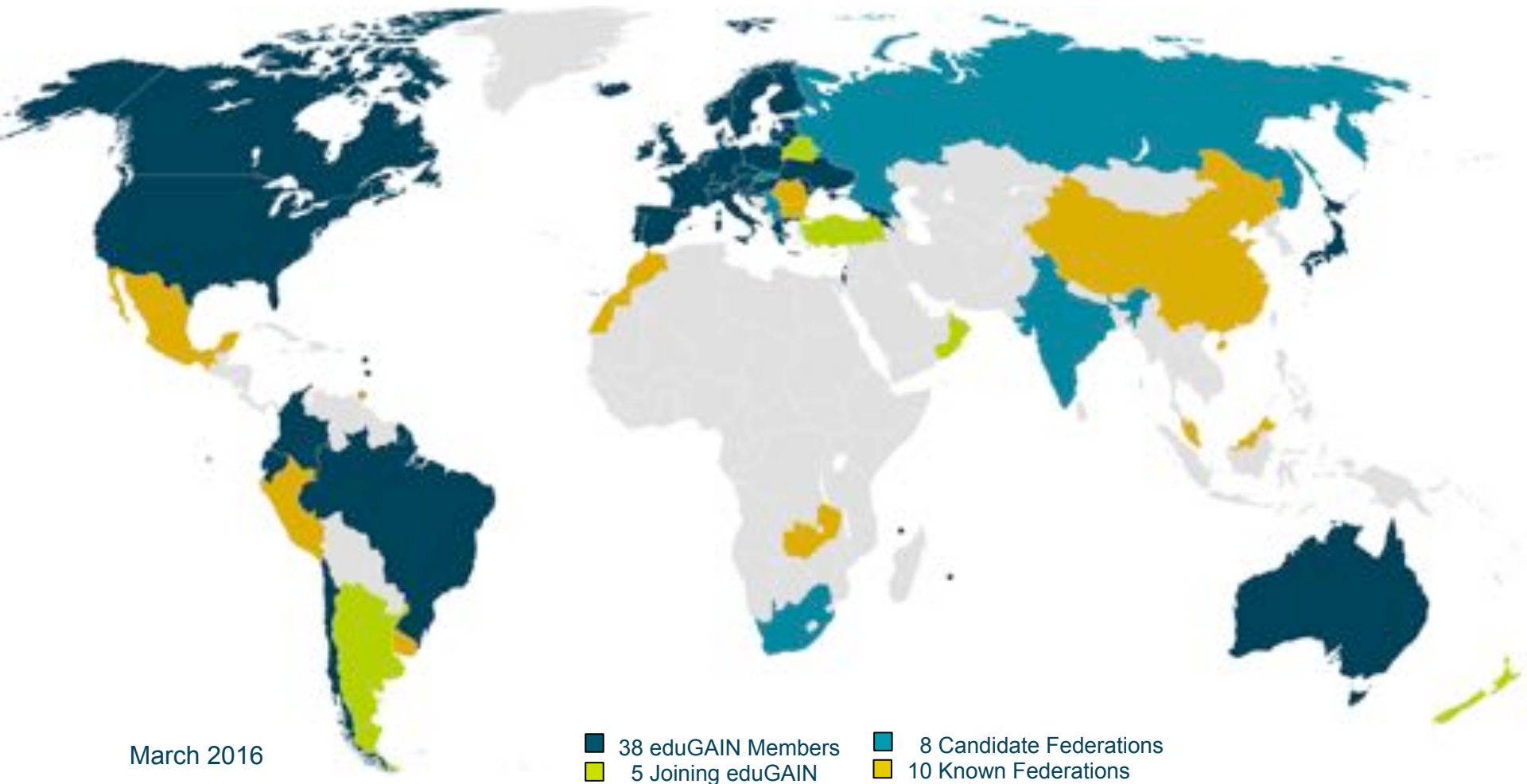
# eduGAIN: Global Authentication Infrastructure

- Contribute the valuable resources from your federation to a global pool
- Services:
  - Free
  - Licenced
  - Project Specific
- People:
  - Allow everyone to participate



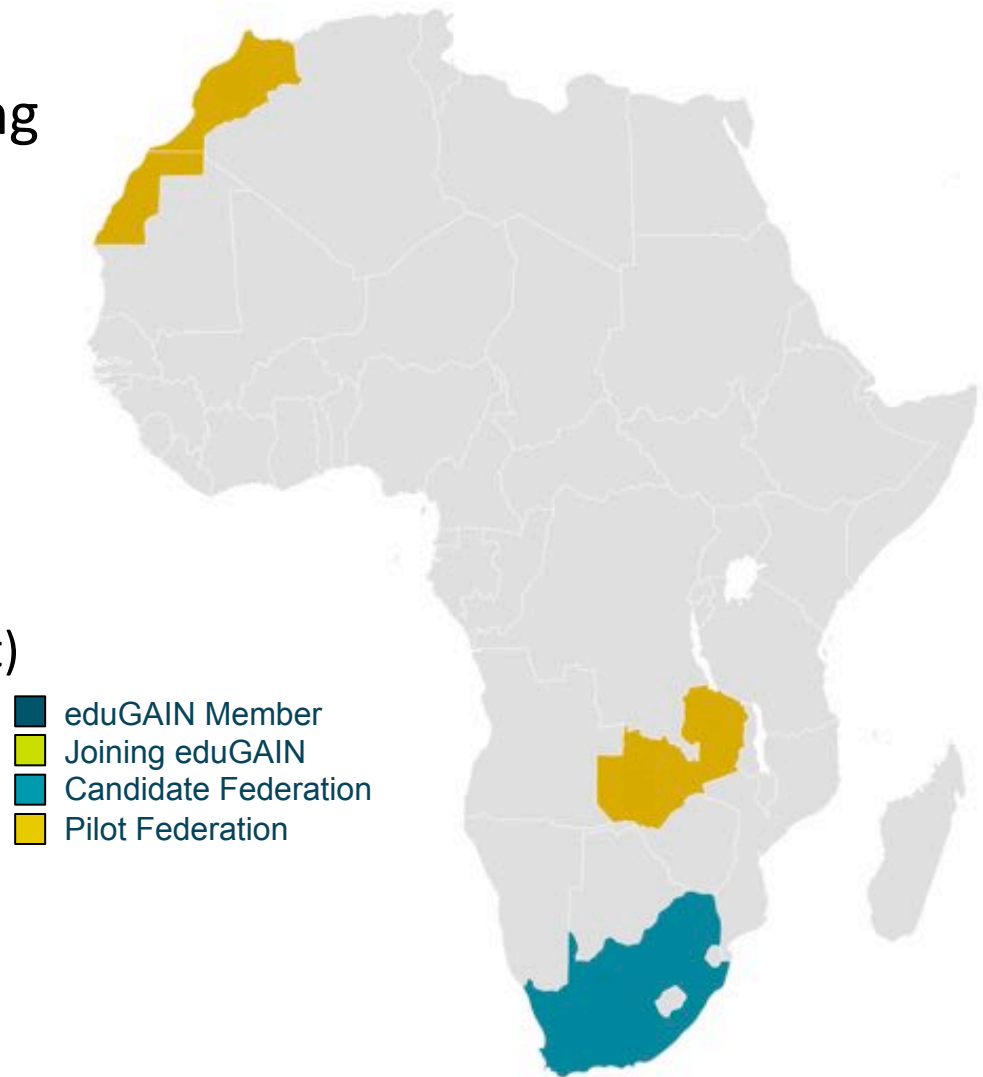


# eduGAIN & Federation Status



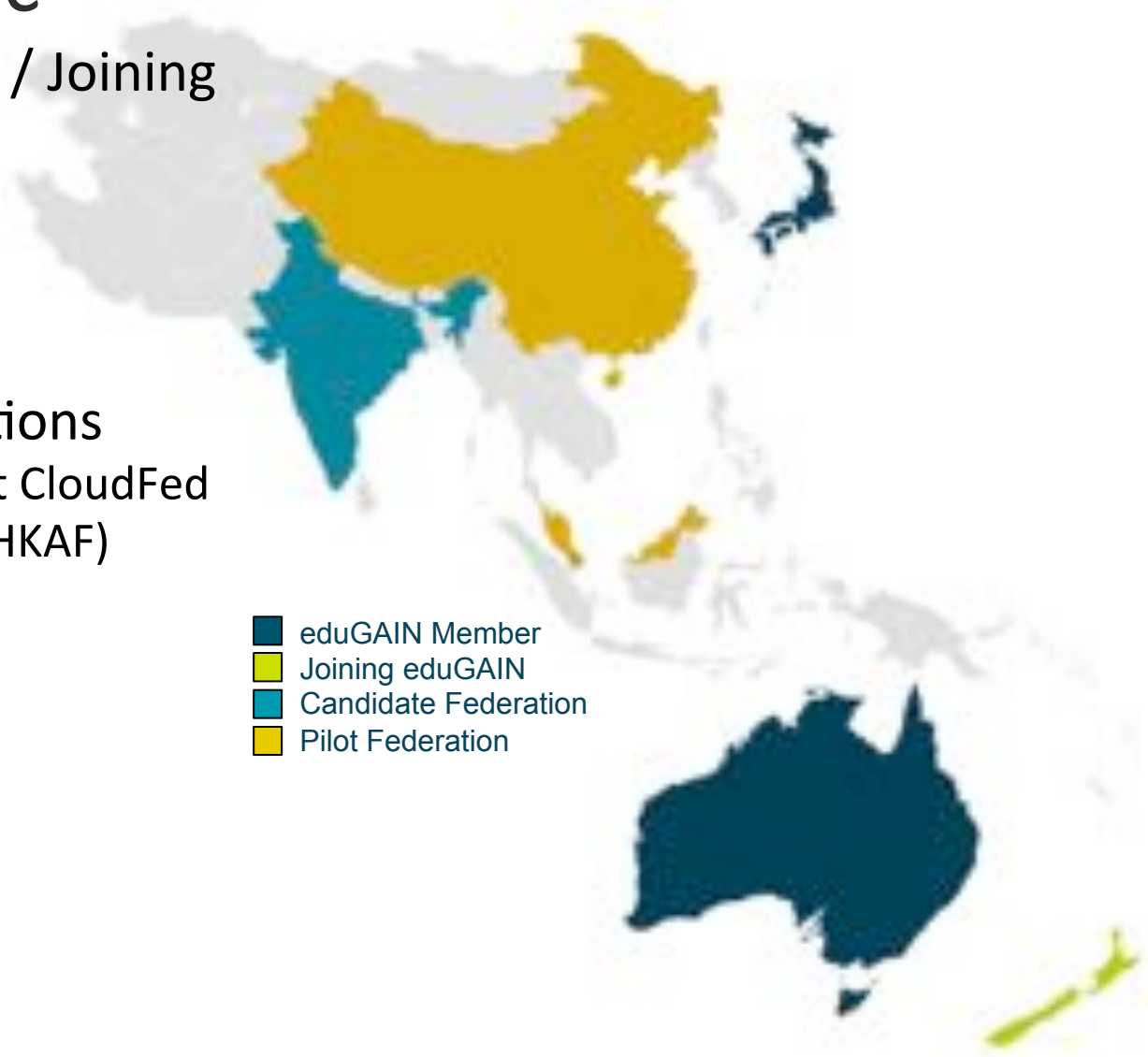
# Identity Federations and Africa

- eduGAIN Participant / Joining
  - None 😞
- eduGAIN Candidate
  - South Africa
- Pilot/Known Federations
  - Morocco → eduIDM
  - Zambia (supported by SURFnet)
  - *NgREN Federation*
  - *WACREN EduID*



# Identity Federations and Asia/Pacific

- eduGAIN Participant / Joining
  - Australia (AAF),  
Japan (GakuNin),  
NZ (Tuakiri)
- eduGAIN Candidate
  - India (InFed)
- Pilot/Known Federations
  - China (CARSI + CSTNet CloudFed)
  - Hong Kong + Macau (HKAF)
  - Malaysia (SIFULAN)
  - Singapore (SGAF)
  - *Taiwan (?)*



# Federation Development Criteria

Pilot

- Name, Webpage, Metadata Feed

Production

- Policy for IdPs & SPs

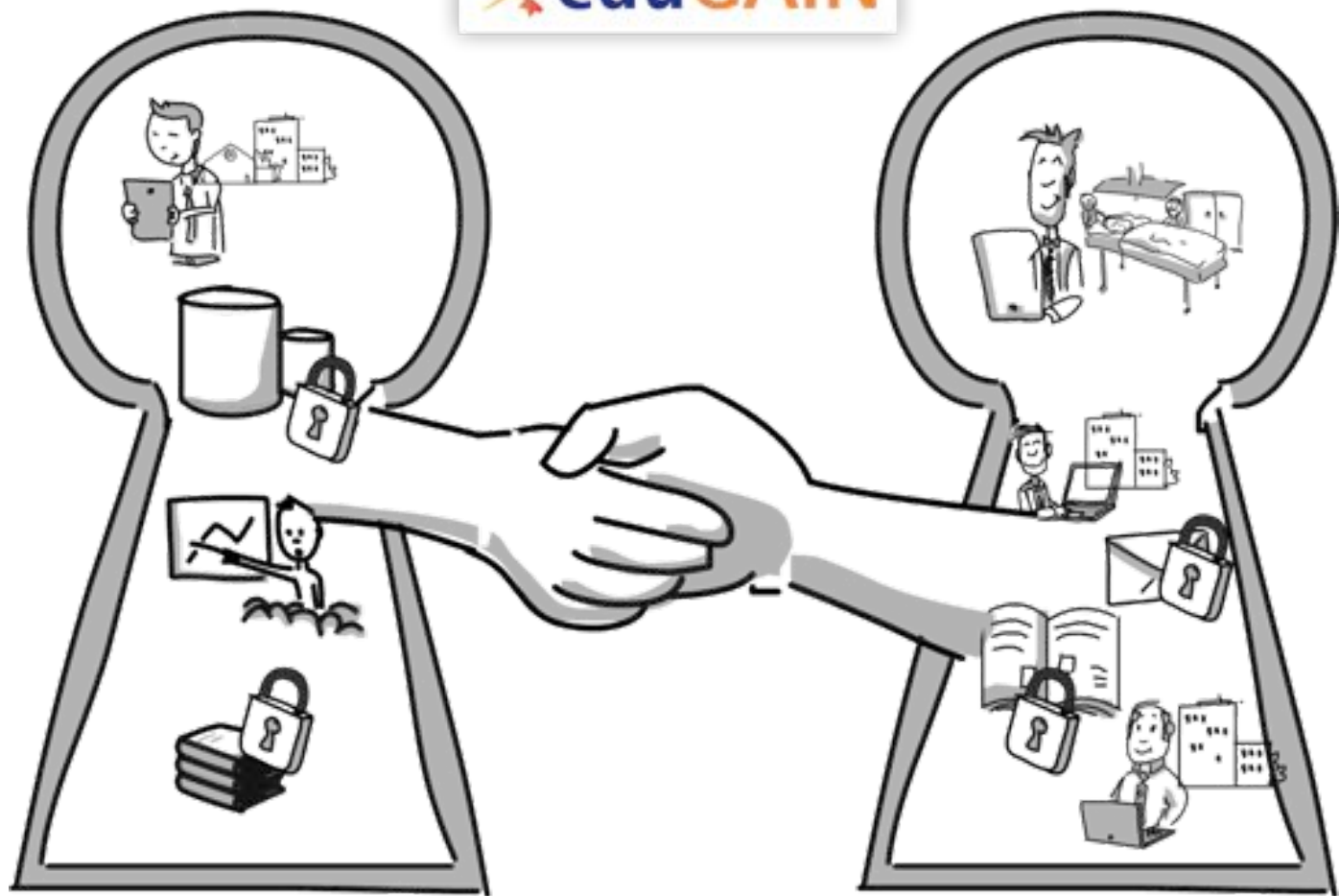
Candidate

- Metadata Registration Practice Statement

eduGAIN

- Declaration Signed, Metadata Feed Validated

# We're here to help...



[edugain@geant.org](mailto:edugain@geant.org)

# Social Identities...



A family of services



# GLOBAL OUTREACH AND PARTICIPATION

---

Nicole Harris, GÉANT



Lots of federations...



44 Production Federations  
17 Pilot Federations



“the voice that articulates the mutual needs of research and education identity federations worldwide”

# refeds.org

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## Happy 10th Birthday REFEDS

[Read More..](#)

The mission of REFEDS (the Research and Education FEDerations group) is to be the voice that articulates the mutual needs of research and education identity federations worldwide. The group represents the requirements of research and education in the ever-growing space of access and identity management, working with and influencing the direction of other organisations on behalf of our participants.

REFEDS participants are from a wide range of backgrounds, but all share an interest in developing access and identity management technology, policies and processes. Many participants represent national identity federations and many come from National Research and Education Networks (NRENs).



Support Documents



The REFEDS Community



Unlocking Attributes






# REFEDS vs eduGAIN








# With thanks to our sponsors

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# To Do....

Sign-up to the mailing list:

[https://lists.refeds.org/sympa/info/refeds.](https://lists.refeds.org/sympa/info/refeds)

Tell us about your federation and add to the map:

[https://refeds.org/federations.](https://refeds.org/federations)

Give us your metadata feed for MET:

[https://met.refeds.org/.](https://met.refeds.org/)

Come to our meetings and participate!



# What do we do?

ENTITY  
CATEGORIES

FIM4R / SIRTFI

FEDERATION  
TEMPLATES

VIRTUAL  
ORGANISATIONS

MONITORING

SPECIFICATIONS  
AND SCHEMAS

# What do our users want us to do

1. User Friendliness
2. Homeless Users
3. Different Levels of Assurance
4. Community based authorization
5. Flexible and scalable attribute release policies
6. Attribute Aggregation & Account Linking
7. Federation solutions based on open and standards based technologies
8. Persistent & Unique User Identifiers
9. User managed Identity Information
10. Up to date identity information
11. User groups and roles
12. Step up authentication
13. Browser and non-browser based federated access
14. Delegation
15. Social media identities
16. Integration with e-Government infrastructures
17. Service Provider Friendliness
18. Effective Accounting
19. Policy Harmonization
20. Federated Incident report Handling
21. Sufficient Attribute release
22. Awareness about R&E Federations
23. Semantically harmonized identity attributes
24. Simplified process for joining identity federation
25. Best practices for terms and conditions

# REFEDS Training Log



Pages / Outreach Home

Tools

## Training Materials

Created by Nicole Harris, last modified on Mar 07, 2016

The following resources can be used for training associated with federations. Some of this material was created by REFEDS and some by other organisations. Please note the acknowledgements and licenses.

- [Getting Started - Business Case](#)
- [Getting Started - Federation 101](#)
- [Community Use Cases](#)
- [Building a Federation](#)
- [For ISPs / SPs](#)

### Getting Started - Business Case

Resource	Description	Audience	Authors / Licenses
<a href="#">Value Proposition for Identity Federations</a> (supporting slides)	High level overview of the value of identity federations.  Slides create for APAN training event by Heather Flanagan for NSRC.	Decision Makers	Heather Flanagan for REFEDS. Creative Commons CC BY 3.0.
<a href="#">Jisc Business Case Toolkit</a> (supporting slides)	Business Case for adopting SAML based federations at institutions.	Decision Makers / Project Managers.	Curtis and Cartwright for JISC. Unknown license.
<a href="#">Jisc Institutional Preparedness Report</a>	An approach taken by Jisc to assess the readiness of its organisations to adopt federated access. Approach could be reused.	Decision Makers.	Curtis and Cartwright for JISC. Unknown license.

# New Year's Resolutions



★ ★ 2016 ★ ★

NEW YEAR'S

RESOLUTIONS

## TOP 6 RESOLUTIONS

January is a great time for New Year's Resolutions.  
Why not make these for your federated entities today?





Implement Research and  
Scholarship Entity Category



Upgrade your  
Software



STOP  
Using SAML 1



Join  
eduGAIN



Improve  
Discovery




Use the  
Code of Conduct

# Attribute Release

<https://wiki.refeds.org/display/ENT/Guidance+on+justification+for+attribute+release>

# Reasons to Release Data (UK)

<b>CONSENT</b>	The data subject has unambiguously given his consent.
<b>CONTRACTUAL</b>	Processing is necessary for the performance of a contract to which the data subject is party.
<b>LEGAL OBLIGATION</b>	Processing is necessary for compliance with a legal obligation to which the data controller is subject.
<b>VITAL INTEREST</b>	Processing is necessary in order to protect the vital interests of the data subject.
<b>PUBLIC INTEREST</b>	Processing is necessary for the performance of a task carried out in the public interest or in the exercise of official authority vested in the controller or in a third party to whom the data are disclosed.
<b>LEGITIMATE INTERESTS</b> 	Processing is necessary for the purposes of the <b>legitimate interests</b> pursued by the controller or by the third party or parties to whom the data are disclosed.

# 7 Step Plan

## STEP ONE

- Check that Legitimate Interests is the best approach.

## STEP TWO

- Qualify the legitimacy of the request – lawful, clearly articulated, real need.

## STEP THREE

- Determine whether the processing is necessary to achieve the goal.



# 7 Step Plan

## STEP FOUR

- Balance the data controller's needs against the interests of the subjects.

## STEP FIVE

- Identity safeguards you can put in place (tech design etc).

## STEP SIX

- Demonstrate (publish) compliancy.

## STEP SEVEN

- Allow the user to opt-out.



*The NSRC cultivates collaboration among a community of peers to build and improve a global Internet that benefits all parties. We facilitate the growth of sustainable Internet infrastructure via technical training and engineering assistance to enrich the network of networks.*

*Our goal is to connect people.*

**[www.nsrc.org](http://www.nsrc.org)**