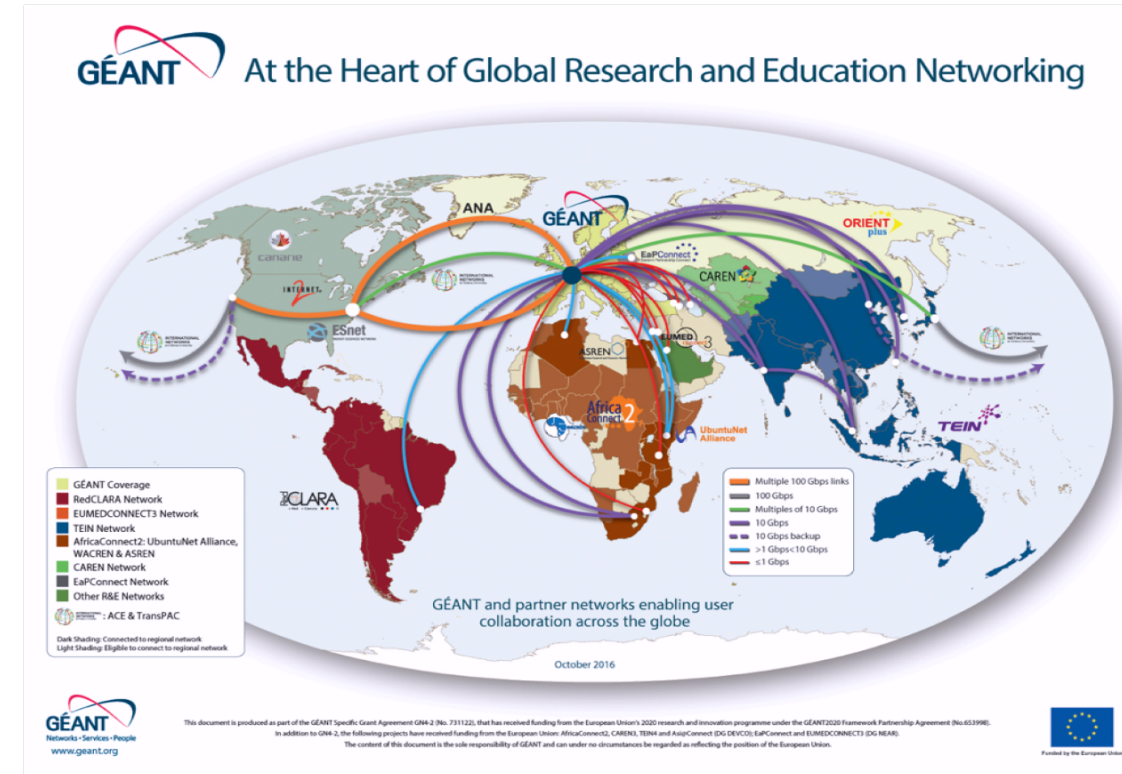


- The way researchers collaborate within scientific communities can vary significantly from community to community
- The ability to access and share resources is crucial for the success of any collaboration
- Advanced Research and Education (R&E) needs advanced IT services

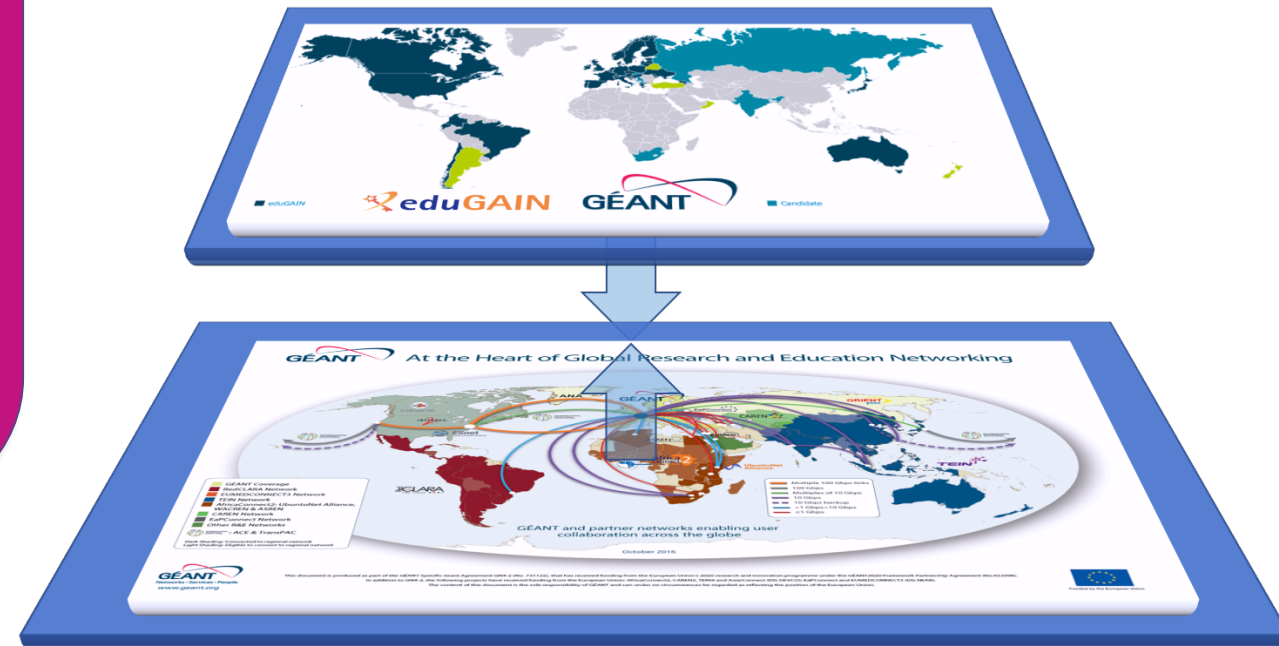


GÉANT Network – A global infrastructure enabling collaboration on a global scale

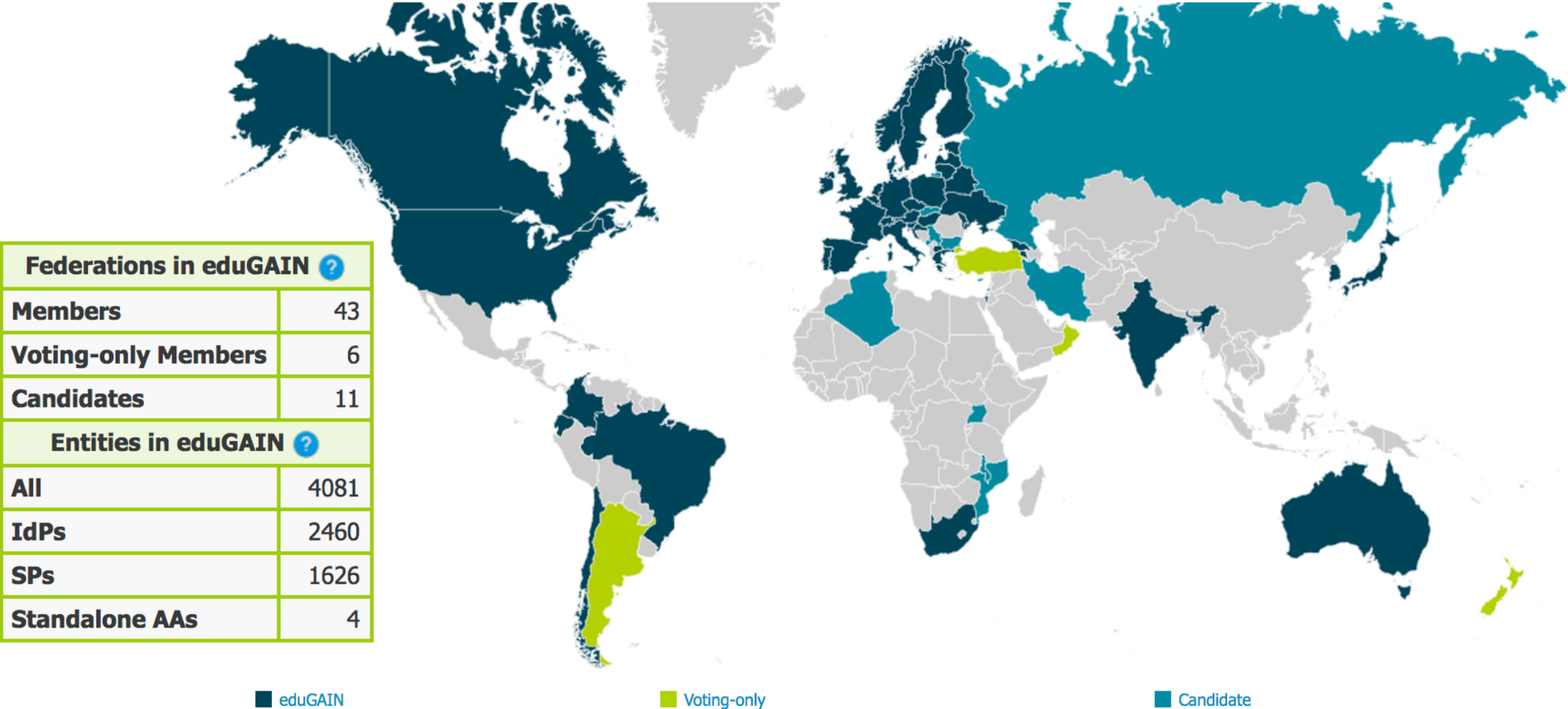
- GÉANT and the NRENs connect over 50 million users at 10,000 institutions across Europe
- Interconnecting with all world regions, reaching to over 100 countries.
- A global infrastructure enabling European researchers to collaborate on a global scale



- Interconnects identity federations around the world, simplifying access to content, services and resources
- Researchers can use a single digital identity provided by the home organization



eduGAIN – A global network of academic identities



Example flow using Federated Identity Management

The screenshot shows a web browser window with the following elements:

- Browser Tab:** Dashboard - GÉANT federated co
- Address Bar:** GÉANT Association (NL) | https://wiki.geant.org/#all-updates
- Navigation Bar:** Spaces, Discussion, Blogs, and a search bar.
- User Menu:** A dropdown menu containing a question mark icon and a "Log in" link, which is circled in red.
- Main Content:**
 - All updates:** A list of updates from various users, including Kurt Baumann, Mandeep Saini, Héder Mihály, Stefan Winter, and Laura Durnford.
 - Welcome to Confluence:** A section with a document icon and text explaining that Confluence is for team collaboration and knowledge sharing.

A red arrow points from the "Log in" button to the "Welcome to Confluence" section.

Example flow using Federated Identity Management

Select your identity provider

English | Bokmål | Nynorsk | Sámeigiella | Dansk | Deutsch | Español | Svenska | Suomi | Français | Italiano | Nederlands | Lëtzebuergesch | Čeština | Slovenščina | Hrvatski | Magyar | Język polski | Português | Português brasileiro | Türkçe | 日本語 | 繁體中文 | ελληνικά | Lietuvių kalba | Åarjelh-saemien giele | русский язык

GÉANT

Random picture from TNC2009 in Málaga

All | eduGAIN | Chile | Nordic countries | Spain | UKfederation | US | Italy | NZ | AU | NL | Social networks

Guest providers | Miscellaneous

Incremental search...
GEANT

GEANT Staff Identity Provider

Networks • Services • People | Privacy Policy

Example flow using Federated Identity Management

GÉANT Staff Identity Provider

A service has requested you to authenticate yourself. Please enter your username and password in the form below.

Username

Password

Login

Copyright © 2007-2017 GÉANT

GÉANT Staff Identity Provider

GÉANT Service Provider Proxy requires that the information below is transferred.

Remember

Yes, continue No, cancel

Information that will be sent to GÉANT Service Provider Proxy

User information

Surname
Kanellopoulos

description
Project Development Officer

Given name
Christos

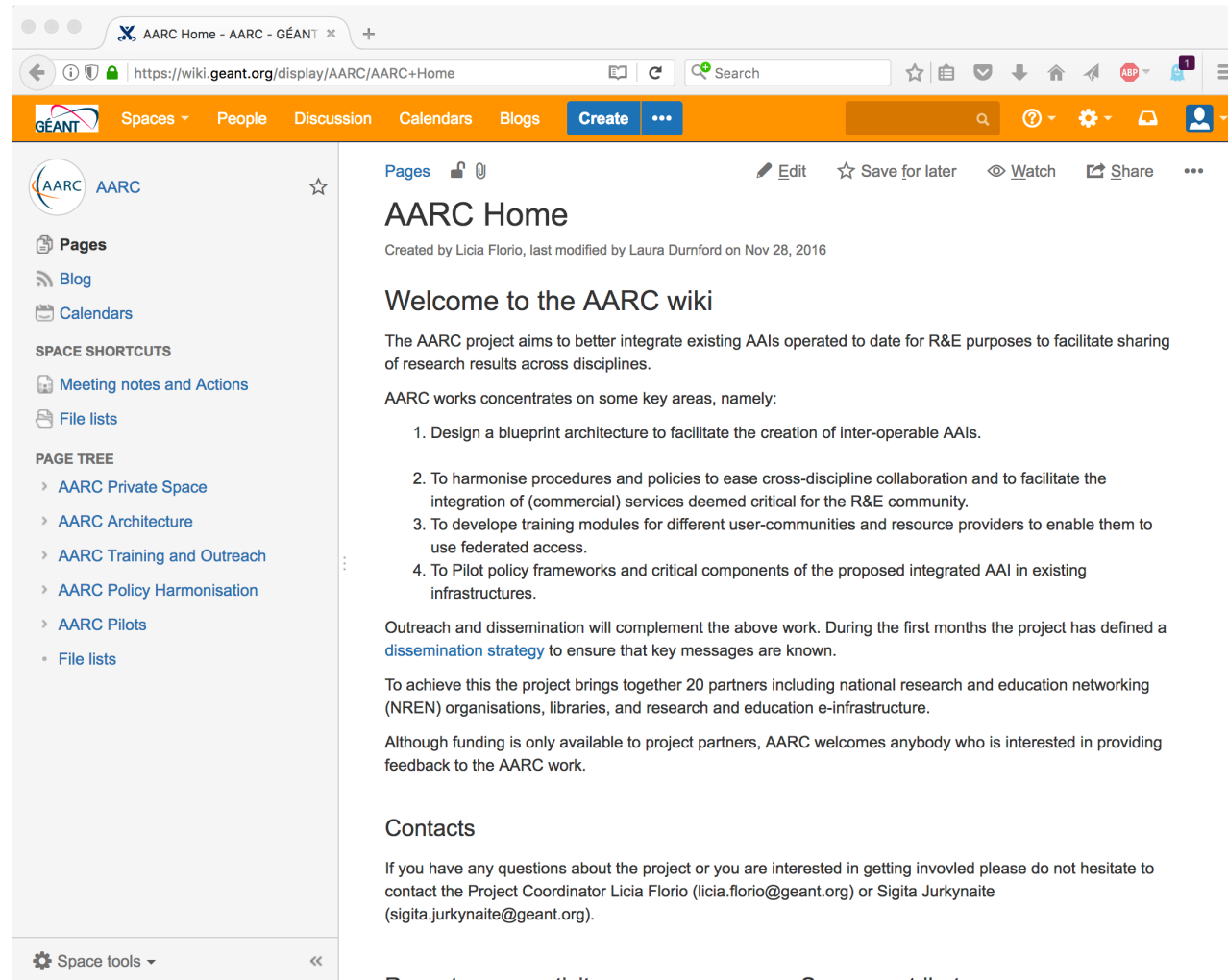
Display name
Christos Kanellopoulos

Mail
christos.kanellopoulos@geant.org

Person's principal name at home organization
christos.kanellopoulos@geant.org

Persistent pseudonymous ID
d5debd32732266a82a26aad007380091a1f4ec5c

Example flow using Federated Identity Management



The screenshot shows a web browser displaying the AARC Home page on the GÉANT wiki. The browser's address bar shows the URL <https://wiki.geant.org/display/AARC/AARC+Home>. The page features a navigation bar with options like Spaces, People, Discussion, Calendars, Blogs, and a Create button. The main content area is titled "AARC Home" and includes a welcome message, project goals, and a list of key areas of focus. The left sidebar contains a page tree with categories like "AARC Private Space", "AARC Architecture", "AARC Training and Outreach", "AARC Policy Harmonisation", and "AARC Pilots".

AARC Home
Created by Licia Florio, last modified by Laura Durnford on Nov 28, 2016

Welcome to the AARC wiki

The AARC project aims to better integrate existing AAls operated to date for R&E purposes to facilitate sharing of research results across disciplines.

AARC works concentrates on some key areas, namely:

1. Design a blueprint architecture to facilitate the creation of inter-operable AAls.
2. To harmonise procedures and policies to ease cross-discipline collaboration and to facilitate the integration of (commercial) services deemed critical for the R&E community.
3. To develop training modules for different user-communities and resource providers to enable them to use federated access.
4. To Pilot policy frameworks and critical components of the proposed integrated AAI in existing infrastructures.

Outreach and dissemination will complement the above work. During the first months the project has defined a [dissemination strategy](#) to ensure that key messages are known.

To achieve this the project brings together 20 partners including national research and education networking (NREN) organisations, libraries, and research and education e-infrastructure.

Although funding is only available to project partners, AARC welcomes anybody who is interested in providing feedback to the AARC work.

Contacts

If you have any questions about the project or you are interested in getting involved please do not hesitate to contact the Project Coordinator Licia Florio (licia.florio@geant.org) or Sigita Jurkynaite (sigita.jurkynaite@geant.org).

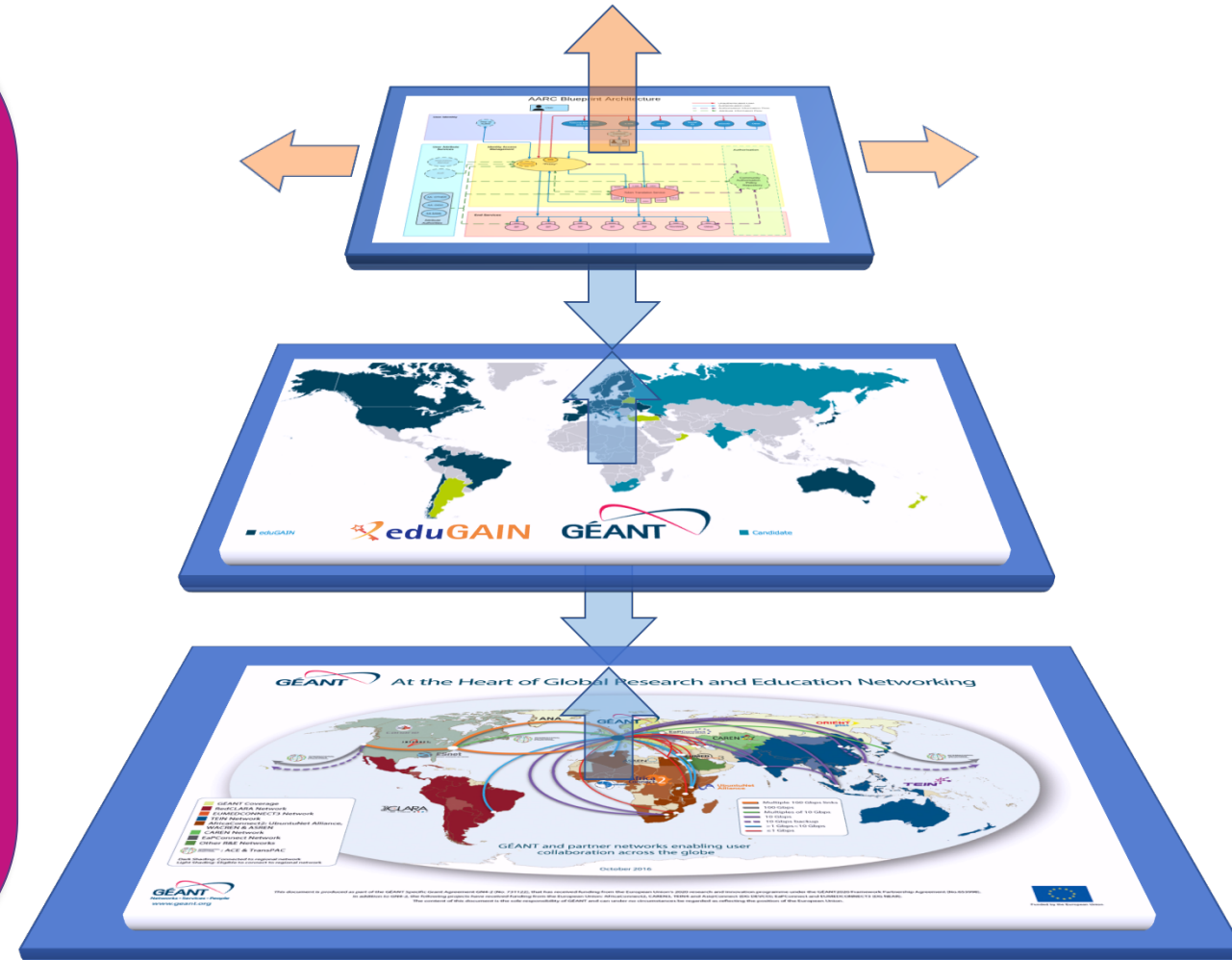
Federated Identity Management for Research

- Access services using **identities from their Home Organizations** when available.
- Secure integration of **guest identity solutions** and **support for stronger authentication** mechanisms when needed.
- **Access** to the various services should be granted **based on the role(s)** the users have in the collaboration.
- Users should have **one persistent identity** across all community services when needed.
- **Ease of use for users and service providers.** The complexity of multiple IdPs/Federations/Attribute Authorities/ - technologies should be hidden.



AARC Blueprint Architecture - Enabling an ecosystem of solution on top of eduGAIN

- A Blueprint Architecture for authentication and authorization
 - A set of architectural and policy building blocks on top of eduGAIN
- eduGAIN and the Identity Federations
 - A solid foundation for federated access in Research and Education



Reduces work

- Authentication-related calls to Penn State University's helpdesk dropped by 85% after they introduced federated access

Provides current data

- Studies of applications that maintain user data show that the majority of data is out of date. Are you "protecting" your app with stale data?

Insulation from service compromises

- In FIM data is pushed to services as needed. If those services are compromised the attacker can't get everyone's data.

Minimize attack surface area

- Only the IdP needs to be able to contact user data stores. All effort can be focused on securing this one connection instead of one or more connections per service.

Thank you

Any questions?

