Gestione dell’identita’ nella comunità della Ricerca e dell'Educazione in Europa

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The Global Nature of Research

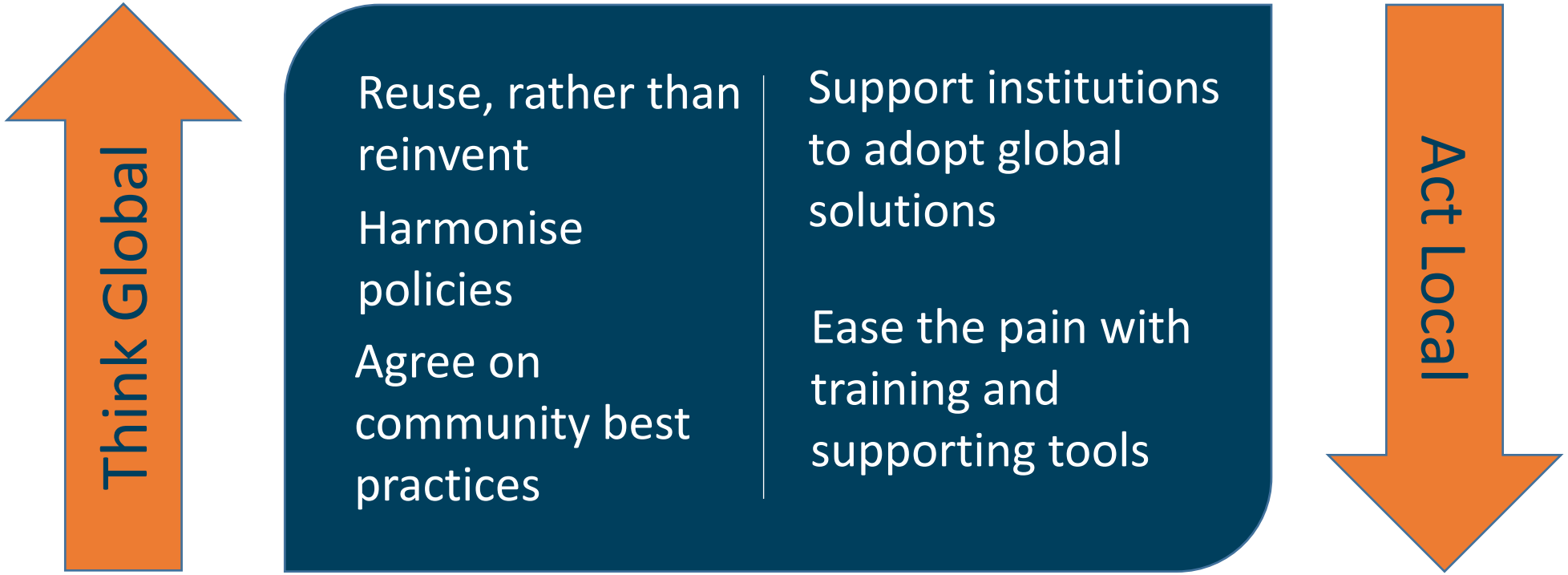
No Researcher works in isolation

LIGO and VIRGO:

- More than 90 universities

Balance

Think Global, Act Local



Think Global - GÉANT

Key Aspects

Identity is a key aspect of the service delivery for the whole R&E community.

Trust is critical to ensure the uptake of services, particularly in a federated and cloud environment

e-Infrastructures and research infrastructures recognise the need to harmonise existing approaches to enable service delivery across e-Infrastructures.

GÉANT T&I Strategy

Enhance collaboration within the global R&E community by meeting users' needs for T&I for networks, services and applications.

Support the needs of other strategic interests for NRENs, e-Infrastructures, ESFRI projects, Cloud, and life-long and government eID.

Enable collaboration between the R&E community and other sectors, on terms favourable to the R&E community to reduce costs.

GÉANT Approach as Facilitator for the NRENs

1. Operate T&I systems for global R&E:
- Integrate national initiatives
- Develop these further in response to user requirements.

2. Harmonise deployed AAIs:
- Agree on common strategies and policies
- Development roadmaps and marketing to meet user and operational needs.

3. Facilitate open global cross-sector systems for T&I:
- Use global R&E's scale to incentivise market to provide solutions suitable for our users.
- Facilitate R&E's adoption of these solutions adding additional value where necessary.

From Local to Global - T&I Infrastructures

eduGAIN

- To enable federated access to services operated by national R&E identity federations
- In production since 2011

eduroam

- To enable federated access to the network
- In production since 2004

Built on national infrastructures!

Think Global - AARC

The AARC Project

Authentication and Authorisation for Research and Collaboration

- Two-year EC-funded project
- 20 partners
  - NRENs, e-Infrastructure providers and Libraries as equal partners
- About 3M euro budget
- Starting date 1st May, 2015
- https://aarc-project.eu/

AARC Approach

Avoid a future in which new research collaborations develop independent AAIs

Impacts

- Create a cross-e-infrastructure ‘network’ for identities
- Reduce duplication of efforts in the service delivery
- Improve the penetration of federated access

Outputs

- Design of integrated AAI built on federated access
- Harmonise policies to easy cross-discipline collaboration
- Pilot selected use-cases
- Offer a diversified training package

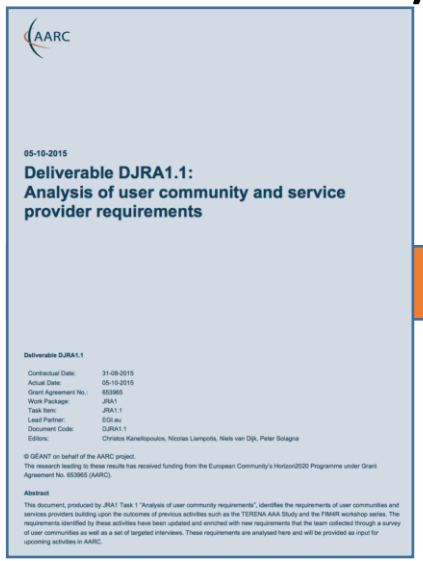
Very Common Scenario

- A **research community internationally distributed;**
- **Increasing number of services** need authentication and authorisation;
- A **solution** is needed:
  - But the **focus of researcher should be on that research area** and not on AAI
- There are some solutions available, but…

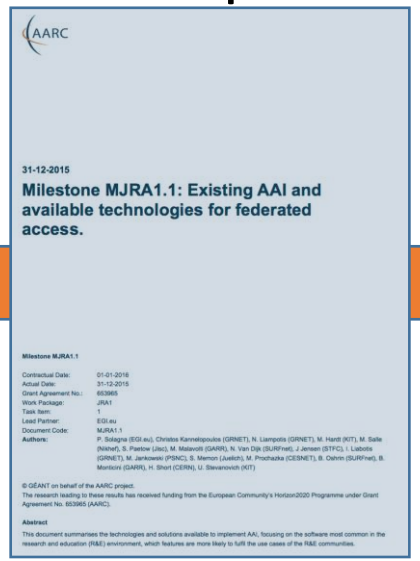
It would be nicer if there was also compatibility & interoperability

AARC Approach

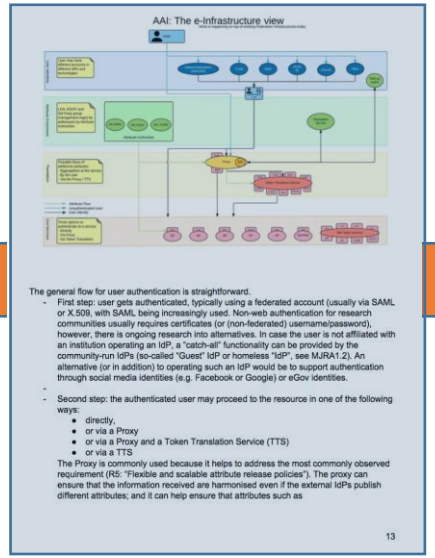
Requirements User Community



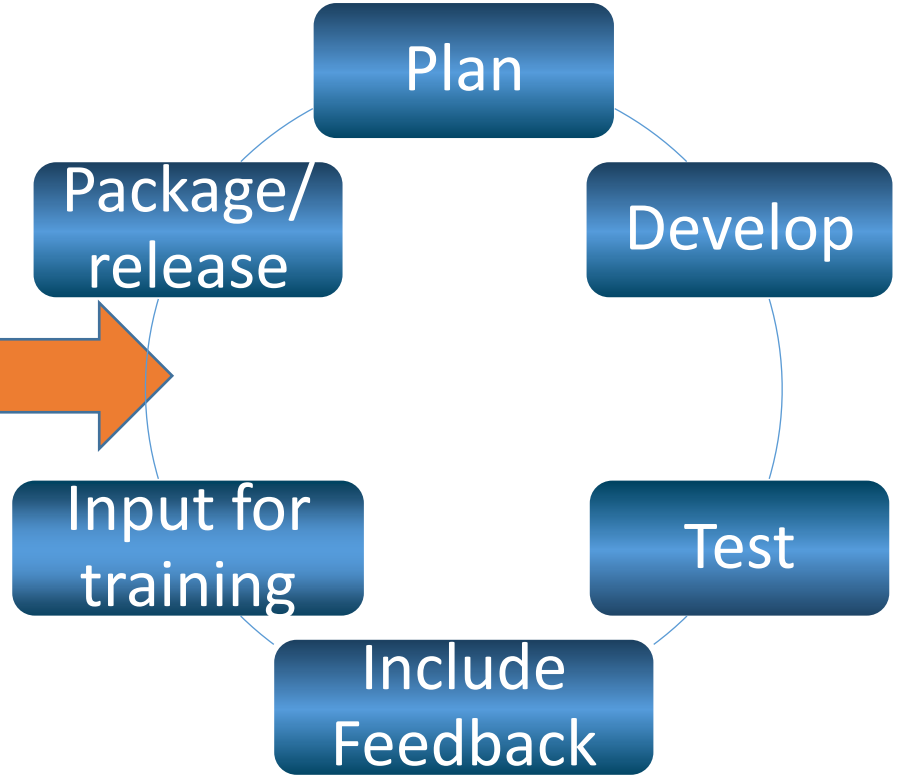
Overview Available AAI Components



Draft Blue-Print Architecture



Pilots With Communities



aarc-project.eu

Requirements

Attribute Release	Attribute Aggregation	User Friendliness	SP Friendliness
Credential translation	Persistent Unique Id	User Managed Information	Credential Delegation
Levels of Assurance	Guest users	Step-up AuthN	Best Practices
Community based AuthZ	Non-web-browser	Social & e-Gov IDs	Incident Response

Trust and Identity Players

GÉANT	AARC	Other R&E Projects/Groups	Policy Groups
• Operates global T&I infras with the support of NRENs: • eduGAIN • eduroam (EU) • FaaS • Support for VOs	• Support international collaboration • Integrated architecture • Policy harmonisation • Training • Piloting	• EC funded projects • ESFRI projects • r-e-Infras • ORCID • Gov IDs	• REFEDS • Kantara • IGTF • ISOC • IETF • Etc.

Act Locally

Key Role of NRENs

Backbone for all global infrastructures

NRENs exists to support their customers

NRENs exists to support their customers

NRENs services are built on standards, security and privacy

Universities and institutions that contribute to big picture

Summary

- Federated Approach is the way to go (but the technology may change)
- Right time for cross infrastructures collaboration
- AARC has shown that a framework in place facilitate collaboration
- Much more awareness about AAIs, but the lack of attributes is an issue that has to be addressed