



Authentication and Authorisation for Research and Collaboration

## **SA1 Update, approach & discussion on pilots**

<http://tinyurl.com/net39et>

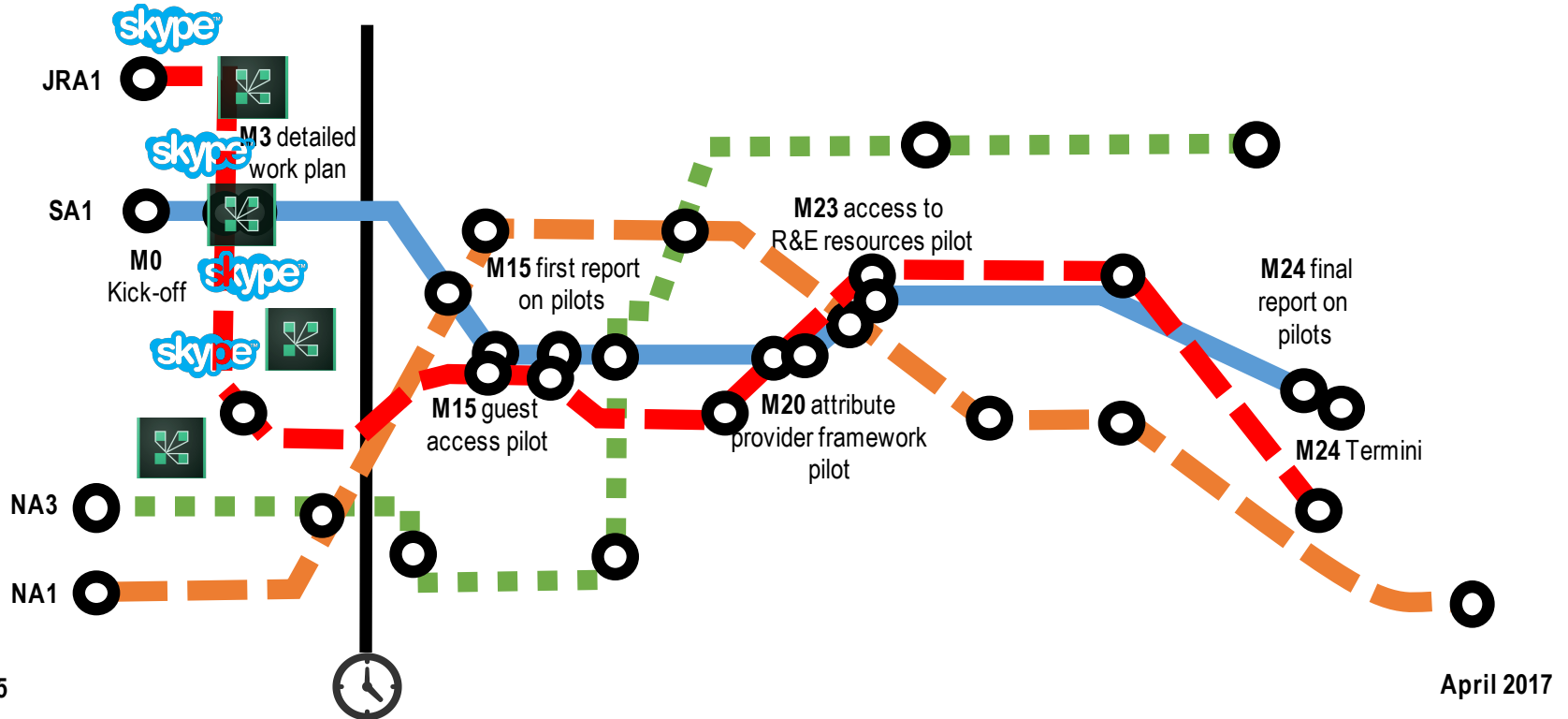
- Demonstrate that the solutions identified and proposed by JRA1 and NA3 are effective in addressing the requirements of the communities
- Proof of concepts will involve services from the main e-infrastructures in Europe
- Show to what extent different technologies used by the e-infrastructures and service providers are compatible and interchangeable
- (Re-)using not building

# Agenda SA1 slot(s)



09.00-11.00	Task/topics
Paul 10m	<b>Task0 Introduction pilots</b> progress so far....
Niels 10m	<b>Task0 Pilot environment:</b> formal/test environment, exchange of certificates, other configuration....
Mario 40m	<b>Task1 Guest access</b> <ul style="list-style-type: none"><li>• Proposed setup for library use cases</li><li>• How to Kick-start eGOV ID integration in AARC</li><li>• IdPaas...</li></ul>
Niels 10m	<b>VOPaaS and available components/services in 2016 available for AARC pilots</b>
Peter 40m	<b>Task2 Attribute management</b> <ul style="list-style-type: none"><li>• Authorities (delegation/sources)</li><li>• Aggregation</li><li>• SP attribute consumption</li></ul>
11.30-13.00	
Michal 25m	<b>Task3 Access to resources</b> <ul style="list-style-type: none"><li>• Integration with Commercial services (scoping and approach)</li><li>• Token translation services:<ul style="list-style-type: none"><li>• LDAP facade</li><li>• Unity IdM</li></ul></li></ul>
Mischa/Tom 20m	<ul style="list-style-type: none"><li>• CI-Idon TTS</li></ul>
Niels 10m	<b>ORCID and Role in AARC</b>
Paul 15m	<b>Wrap up + Planning for pilots/prospect</b> [table with 3mo planning + interaction with other tasks]

# Update: approach + work done so far + work ahead



May 2015

April 2017

**M3** MSA1.1 Specify the work to be undertaken in collaboration with JRA1 and NA3:

<https://aarc-project.eu/wp-content/uploads/2015/10/MSA1.1-v8FINAL.pdf>

Details/task, see wiki:

- ▼ AARC Pilots - private
  - › Pilot Projects
- ▼ SA1.1 Guest identities
  - SA1 Task 1 Subtask 1: Long Tail of Science ( Social, eGOV-IDs)
  - SA1 Task 1 Subtask 2: Guest IDPs and Catch-all federation
  - › SA1 Task 1 Subtask 3 : Libraries pilot
- SA1.2 Attribute Management
- ▼ SA1.3 Access to resources
  - Commercial Service integration
  - Token Translation Services (TTS)

## Results ahead

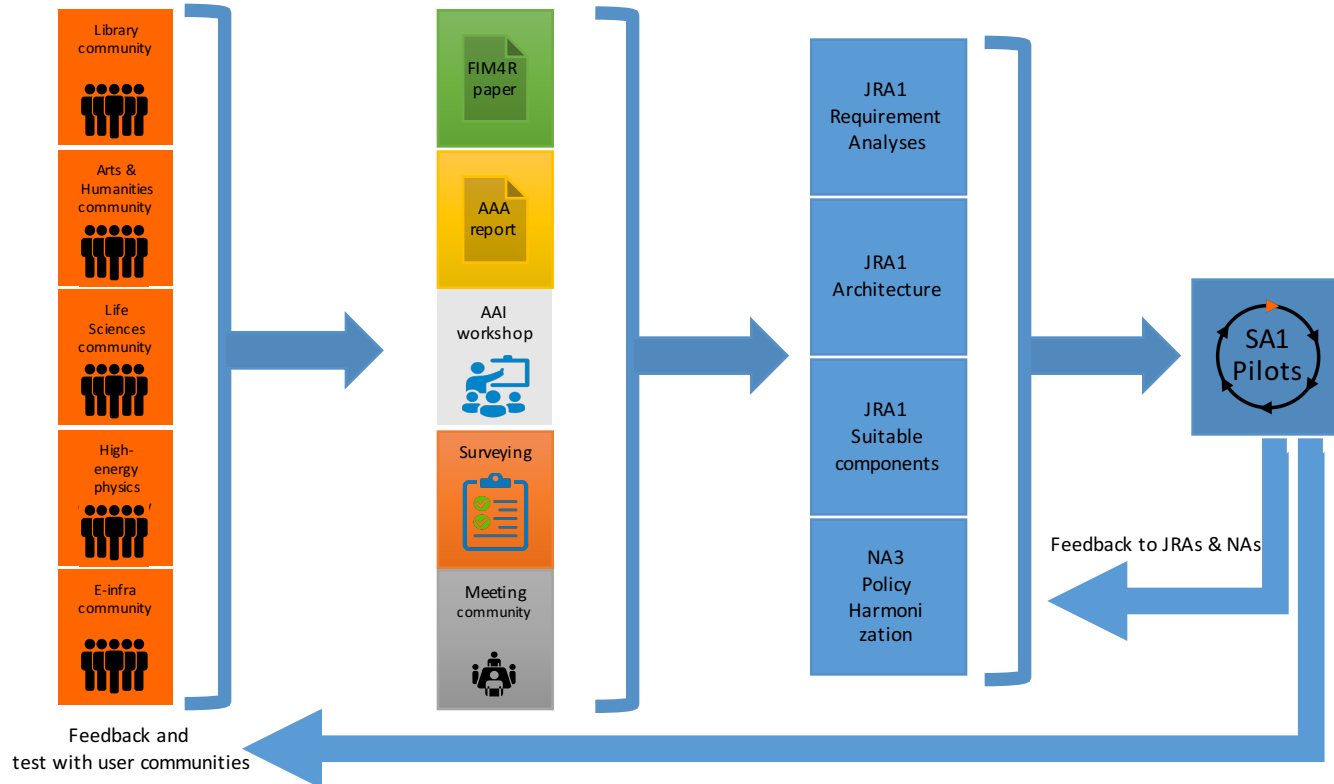
**M15** DSA1.1 Pilots to support guest users solutions

**M20** DSA1.2 First report on the Pilots deployed by SA1

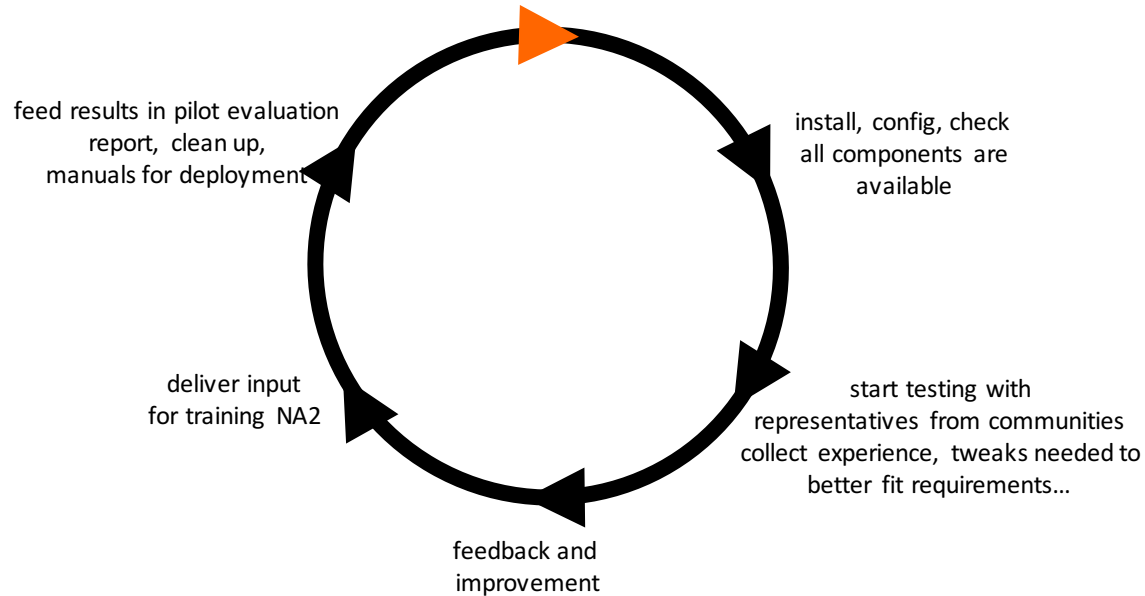
**M23** DSA1.3 Final pilot on attribute provider framework

**M24** MSA1.2 Report on the user testing and future recommendations

# Flow: Communities → JRA/NA activities → SA1 pilots → Feedback



planning of pilots. timing start-end  
needed resources and engagement  
of users/communities collaborate with JRA1

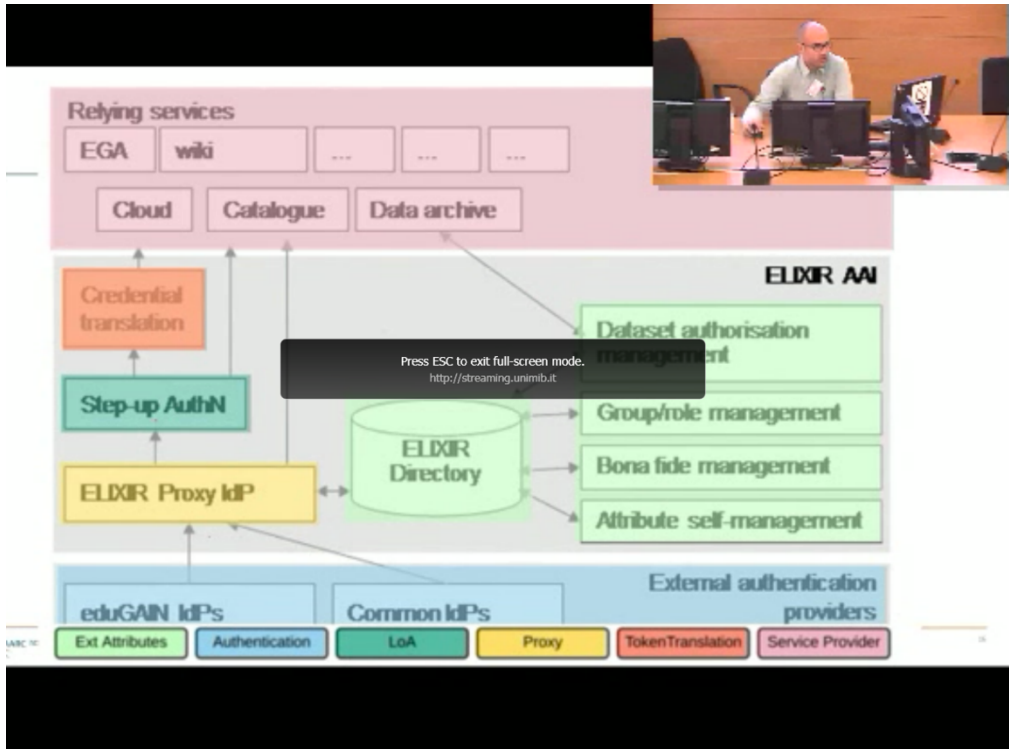


## Example pilot description...

<b>Name of the pilot</b>	<i>Enable federated access to library resources</i>
<b>Organisation(s) involved (names, roles)</b>	<i>Univ of..., mr X, Hd of library.....+ mr Y, local fed. operator</i>
<b>Description</b>	<i>This pilot will focus on solutions to better bridge the current hybrid and therefore confusing practice of IP based and institutional account based access. Library representatives [names] will actively collaborate and test/assess the proposed solution(s)</i>
<b>Pilot goals</b>	<i>Improve user experience, Increase adoption (and use) of federated identity, Lower current administrative burden of library/ICT managers. Lead time will be 3mo and includes testing, commenting and reporting of results/experience MUST – At least x “new” library service accessed with fed. account no matter location of the user MUST – Library “walk by users” have access to library resources when on-site SHOULD – Well branded, consistent portal as main entry for users</i>
<b>Required resources</b>	<i># hours from community to assess suitability of proposed solutions, provide feedback # hours from AARC partner to guide pilot process # VMs to run solutions Setup (configuration, DNS, certificates)</i>
<b>Contact data</b>	<i><a href="mailto:mrX@universitylibrary.xx">mrX@universitylibrary.xx</a> <a href="mailto:mry@AARCpartner.yy">mry@AARCpartner.yy</a></i>



# Establish some (archi)structure



Ext. Attributes

Authentication

Token Translation

Service Provider

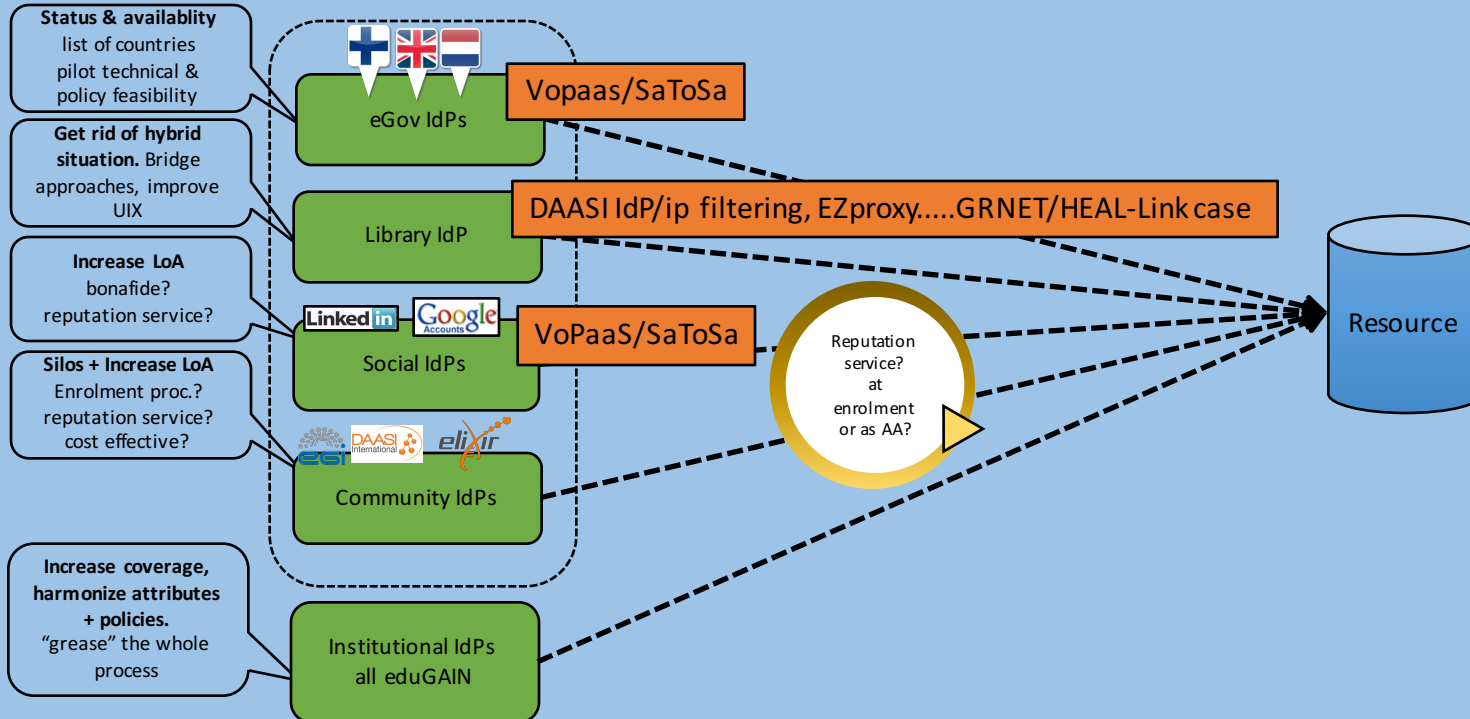
LoA

Proxy

?Reputation?

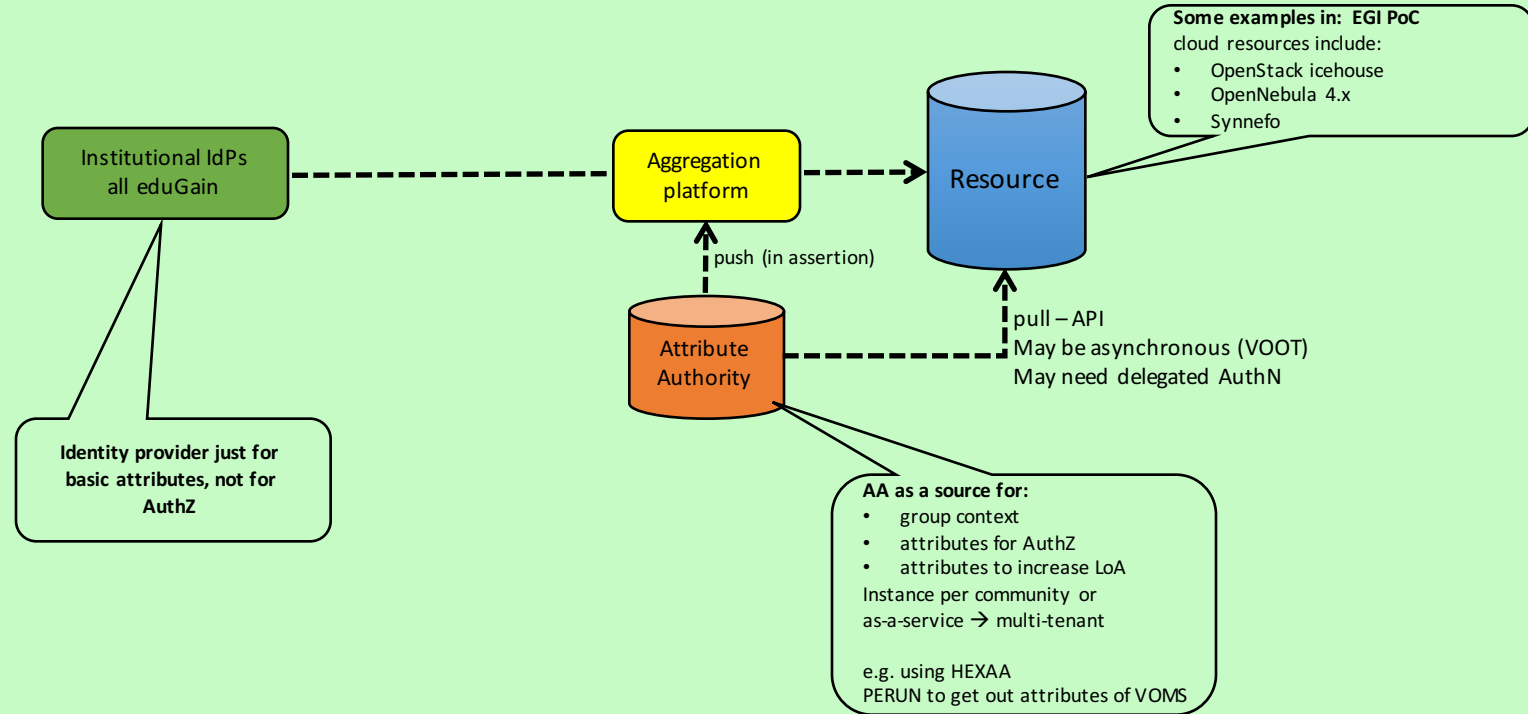
# To explore the use of guest identities

## Authentication



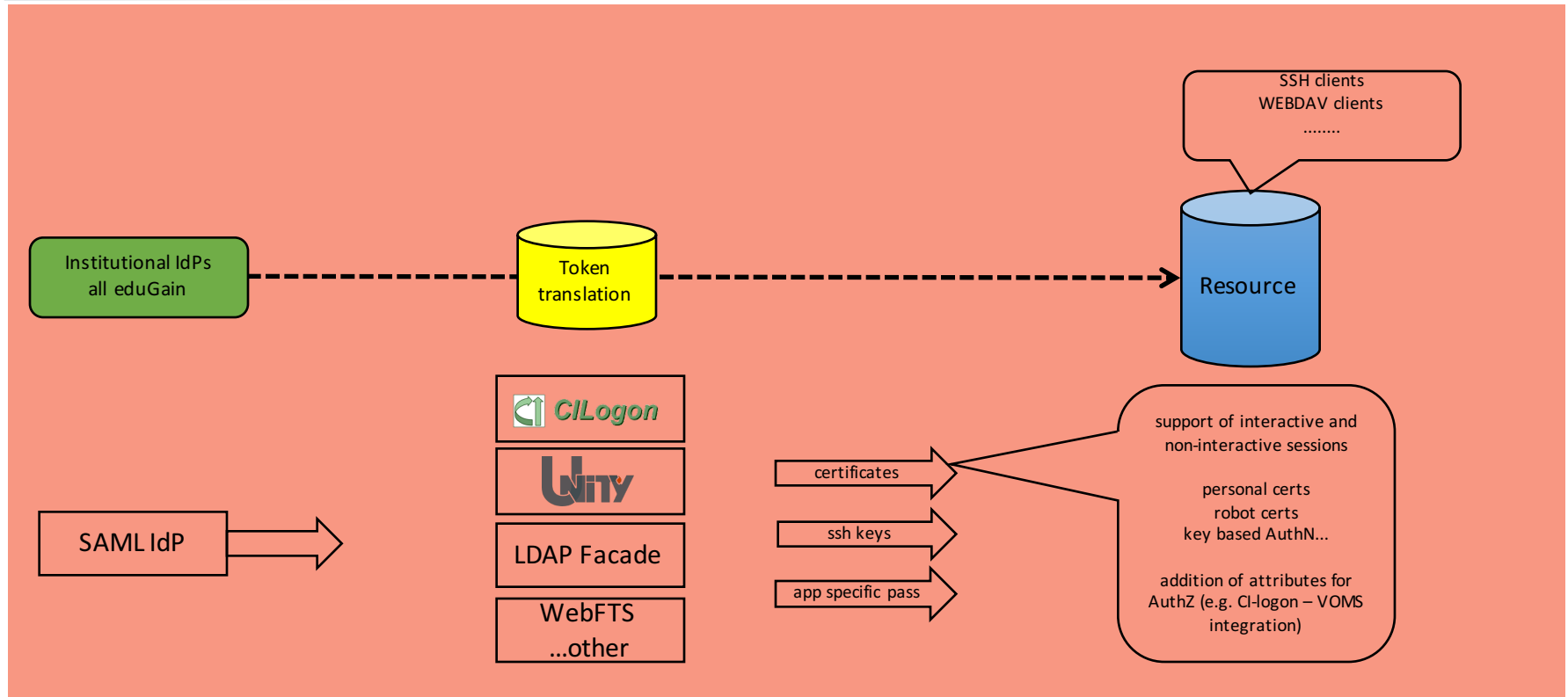
# To research how attribute providers fit into the blueprint, such that user attributes can be aggregated from multiple authoritative sources

## Ext. Attributes



# To assess the integration of security token translation services to offer seamless authentication among heterogeneous systems

## Token Translation



# Partnerships/pilot connection with commercial service providers (CSPs)



## Service Provider

How to scope – pilot? Enable enrolment to our AAI


Where to start with identification of suitable providers?

- Focus on Helix Nebula (see doc n=12) most have 3 – 5 datacenters
- Focus on GN Cloud catalogue
- Focus on the small(er) local ones (????)
- European based (????)

Problems discovered

- Awareness about eduGAIN → NA2 training (+ managing expectations)
  - Need for a develop environment + guidelines for implementation → test env. + training
  - Confusion about local enrolment, no homogeneous policy framework → GN4/NA3?
  - IdPs do not automatically trust SPs → GN4/NA3? (differs from country to country)
  - Centralized discovery service → Pilot SA1
  - Attributes we can offer → limited(1), at least unique ID
- P 27 of requirements document further elaborates on SP requirements

# Planning: guided by work in other activities....availability of....



**05-10-2015**

**Deliverable DJRA1.1:  
Analysis of user community and service provider requirements**

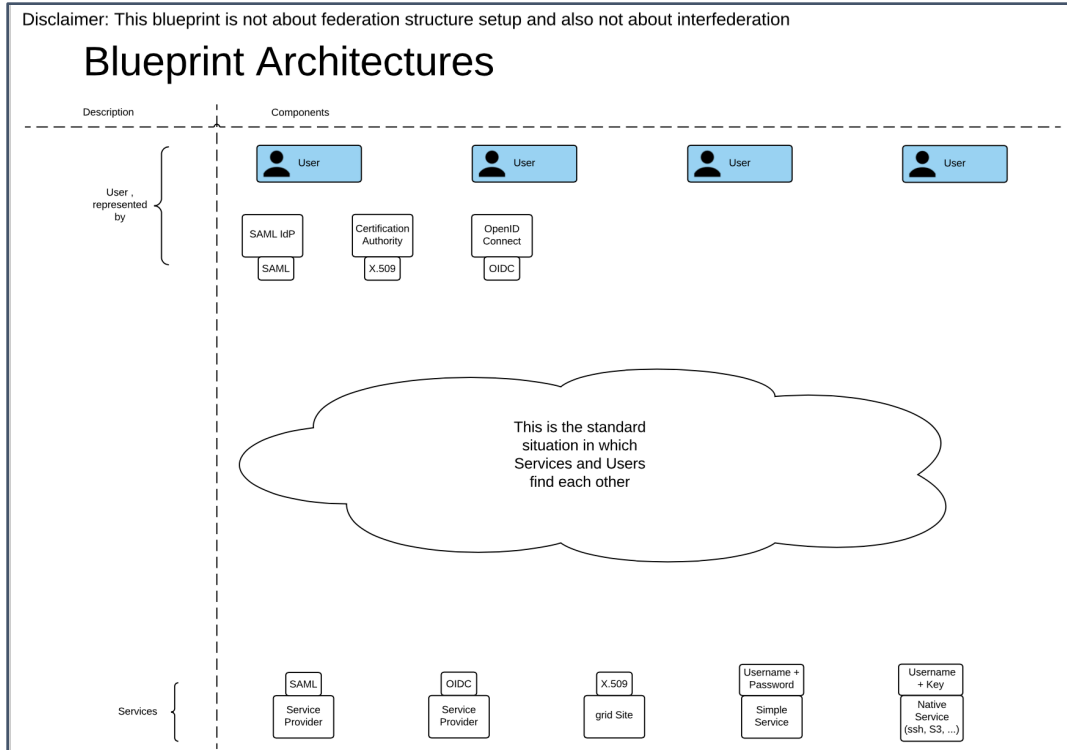
**Deliverable DJRA1.1**

Contractual Date: 31-08-2015  
Actual Date: 05-10-2015  
Grant Agreement No.: 653665  
Work Package: JRA1  
Task Item: JRA1.1  
Lead Partner: EDU.eu  
Document Code: DJRA1.1  
Editors: Christos Kanellopoulos, Nicolas Liampotis, Niels van Dijk, Peter Solagna

© GEANT on behalf of the AARC project.  
The research leading to these results has received funding from the European Community's Horizon2020 Programme under Grant Agreement No. 653665 (AARC).

**Abstract**

This document, produced by JRA1 Task 1 "Analysis of user community requirements", identifies the requirements of user communities and services providers building upon the outcomes of previous activities such as the TERENA AAA Study and the FIMAR workshop series. The requirements identified by these activities have been updated and enriched with new requirements that the team collected through a survey of user communities as well as a set of targeted interviews. These requirements are analysed here and will be provided as input for upcoming activities in AARC.



## Activities in SA1 Pilots - planning<sub>1</sub>

---

For the activities in SA1 we roughly applied the following division:

- Y1: focus on “proof of technologies”  
Pilots consist of tests with single (groups) of solutions. Assess suitability from a functional & technical point of view, maturity and ability to integrate in the blue print architecture
  
- End of Y1 + Y2: focus on “proof of integration” as a more matured (common denominator) architecture becomes available

# Activities in SA1 Pilots: planning<sub>2</sub>


DJRA1.2 Blue  
Print architecture

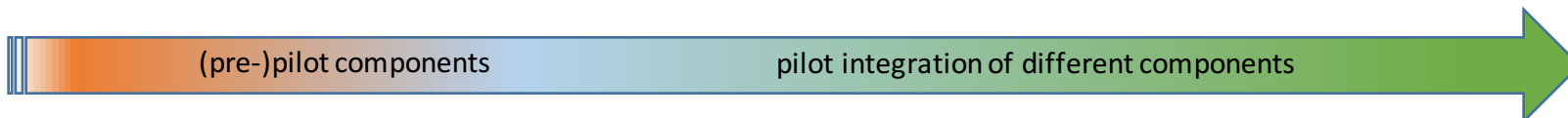


DJRA1.1  
Requirements

MJRA1.1 Existing AAI and  
available technologies for federated access.

NA3.1 Differentiated LoA recomm.  
DNA3.3 Recomm. Sustainable models

Q4-2015	 Q1-2016	guest access pilot M14 Q2-2016	first report on pilots M15 Q3-2016	attribute provider framework pilot M20 Q4-2016	access to R&E resources pilot M23 Q1-2017
Pre-pilot work: access to library resources	Guest access: Library proxy (?)	Guest access: Social IDs	Guest access: eGov IDs	Integration test: Community A	Inter-community sharing of resources
Pre-pilot work: e-gov/social ID	Guest access: Community IDs	Guest access: Reputation service?		Integration test: Community B	
Pre-pilot work: attribute management	orcid SP (SN + IDEM)	voPAAS (COmanage) on boarding		Integration test: Community C	
Pre-pilot work: token translation	Attributes: COmanage/other?	Attributes: Aggregation			
Pre-pilot work: commercial provider	Token translation: CI-logon	Attributes: SP consuming attributes?	Token translation & attributes: CI-logon + VOMS (other sources?)		
Pre-pilot work: ?	Commercial service: ?	Orcid as an AA	CI-logon2 + COmanage (aas)		





# Thank you Any Questions?

paul.vandijk@surfnet.nl



<https://aarc-project.eu>



© GÉANT on behalf of the AARC project.

The work leading to these results has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 653965 (AARC).