



Authentication and Authorisation for Research and Collaboration

## The AARC Project – First 6 months

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Service orientation to data and high-performance computing infrastructures

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## 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/>



Avoid a future in which new research collaborations develop independent AAls

## 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
- Harmonised policies to easy cross-discipline collaboration
- Pilot selected use-cases
- Offer a diversified training package

# Approach

## Integration, policy harmonisation, piloting and training

Design an integrated AAI  
built on production  
infrastructures

Use existing e-  
infrastructures in the  
delivery chain

Work with e-infras and user  
communities to solve  
existing challenges, pilot  
use-cases and get feedback  
on the results



## First Results



- First document describing the approach to the training:
  - <https://aarc-project.eu/documents/milestones/>
- Report on the identified target groups for training and their requirements
  - <https://aarc-project.eu/wp-content/uploads/2015/04/AARC-DNA2.1.pdf>
- End of the month the first online module on federated access
  - <https://aarc-project.eu/documents/training-modules/federations-101/>

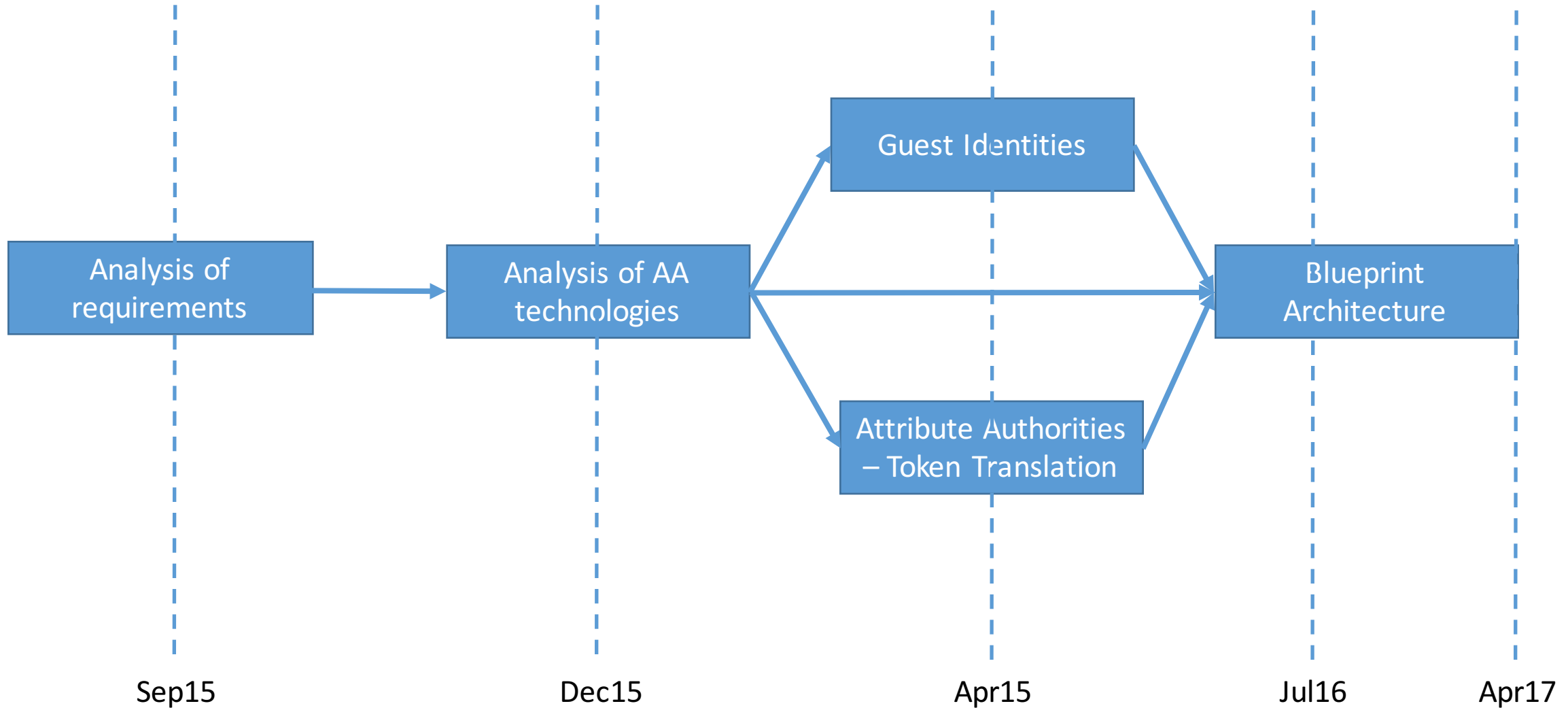
## Policy and Best Practices Harmonisation

- Security Incident on FIM
  - To agree on a generic security incident response procedure for federations
  - Sirtfi Trust Framework to be finalised at the next I2 Tech Exc
- Sirtfi WG:  
<https://wiki.refeds.org/display/GROUPS/SIRTFI>

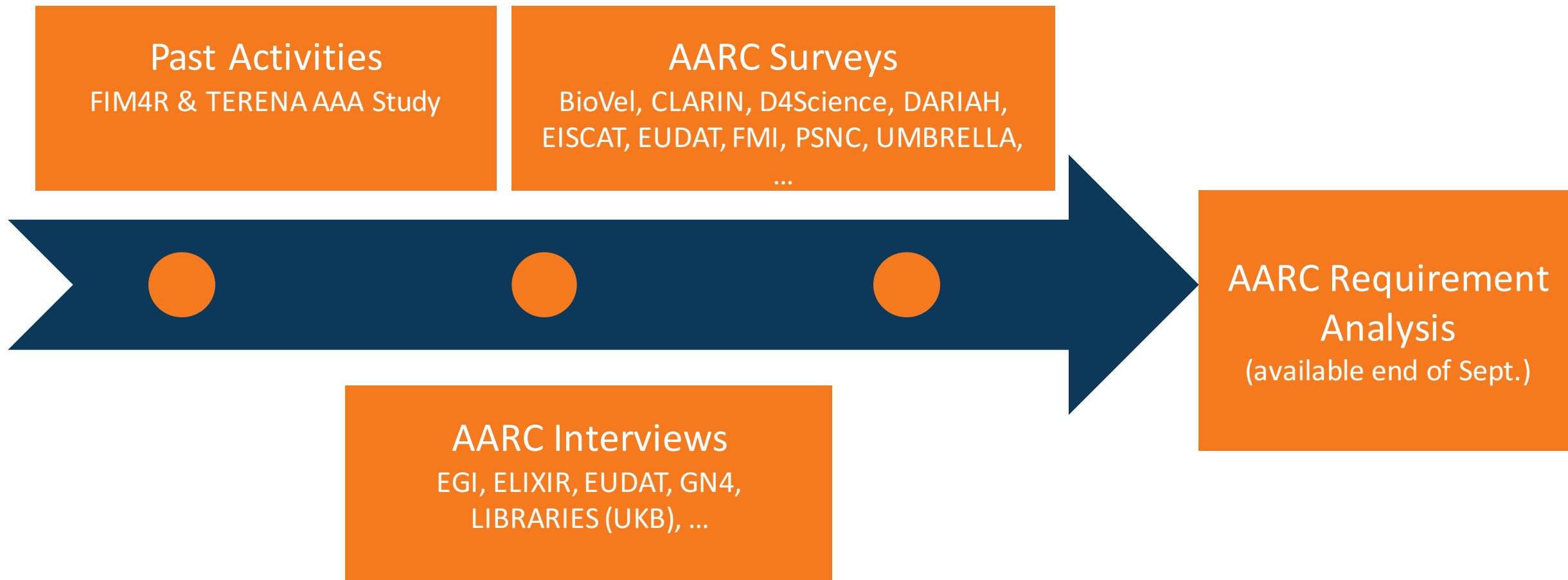
- LoA work
  - To agree on a sustainable LoA framework
  - AARC (through surveys and FIM4R) looking at immediate and longer-term need by SPs and RPs:  
<https://wiki.geant.org/display/AARC/LoA+survey+for+SP+communities>
  - Key challenge is cost of operation, and who bears this costs
- R&E federations and their IdPs looking at the 'service aspect' of providing assurance



# Architecture Design



## Architecture Design – Analysis of requirements



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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

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## Architecture Design – Next steps

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- Continue the interviews with the AARC stakeholders and the parallel work on Guest Identities and Attribute Authorities (AA) & Token Translation Services (TTS)
- End of October first internal draft release of AARC High Level Architecture
- End of December: Analysis of available AA technologies
- January – February: Consultation with stakeholders around the AARC High Level Architecture
- April: Release work on Guest Identities , AAs and TTS
- July: 1<sup>st</sup> version of the AARC AAI Architecture Framework

## Preparation for AARC 2

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- Although the AARC project has only started for a few months, we have started the preparation for AARC2
  - focus on user-driven innovation and pilots on existing e-Infrastructures to respond to user-community challenges
  - Help us identifying use-cases:

<https://docs.google.com/a/terena.org/forms/d/1xHaCINRaizjWfY6K-4-1O9z81NAyBsmxtJNSNGXSICU/viewform>

# Thank you

## Any Questions?

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<http://aarc-project.eu/>

