AEGIS - AARC Community - EOSC AAI Update

Christos Kanellopoulos, GÉANT

David Groep, Nikhef

What has AARC2 achieved ?

Champion federated access - Make federated access the main access means for eScience by addressing technical and policy challenges and promoting its usage

Run pilots with research collaborations in AARC2 (and beyond) - Support research communities to scope their requirements and deploy matching solutions based on the AARC BPA.

Support for global policies – Develop key policy frameworks to minimise diverging policies and allow for interoperability of infrastructures

Promote AARC results and make them sustainable - Entrust operations with existing research and e-infrastructures whenever possible

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AARC Blueprint Architecture Implementations

AARC Engagement Group for InfrastructureS
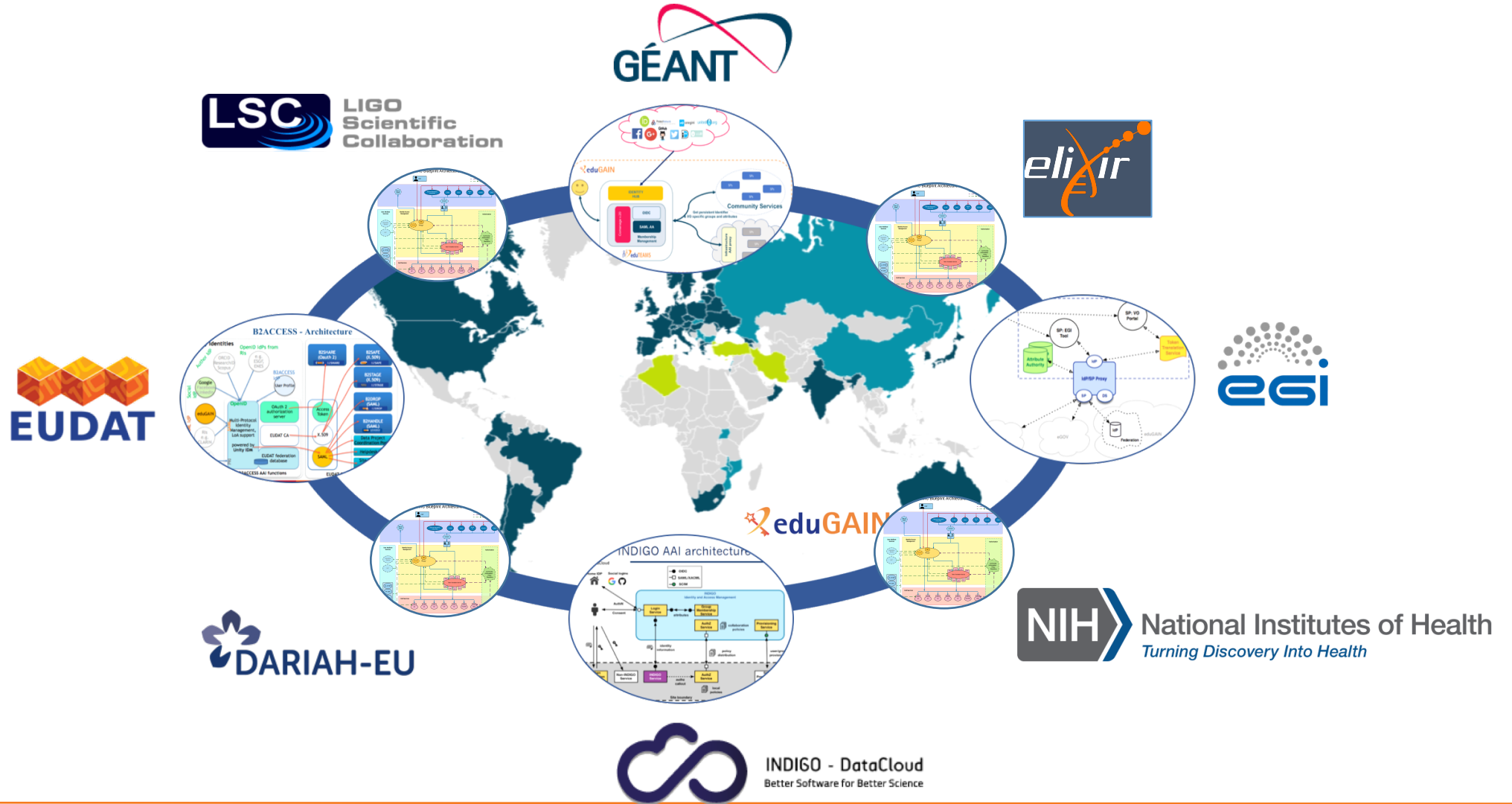
- Representatives from research and e-Infrastructures who operate AAI services for the communities they support
- A communication channel with and across the infrastructure providers
- Promote a consistent vision for federated access
- Facilitate activities so that infrastructures adopt and implement harmonised solutions and avoid 're-inventing the wheel"

**As more infrastructure are adopting the AARC results, the membership of AEGIS will be expanding.**

Sustainability: beyond the AARC project

aarc-project.eu

aarc-community.org

European Union HORIZON 2020 PROGRAMME

EOSC-hub / GEANT 4.2
Collaboration Agreement

Version 0.4, 25 May 2018

EOSC-hub   GÉANT

AAI Infrastructures coordination	GN4-2 and EOSC-Hub to provide support experts from the two projects resources to participate in the works of AEGIS	WP5.1 WP6.1	JRA3 SA2

Sustainability: beyond the AARC project

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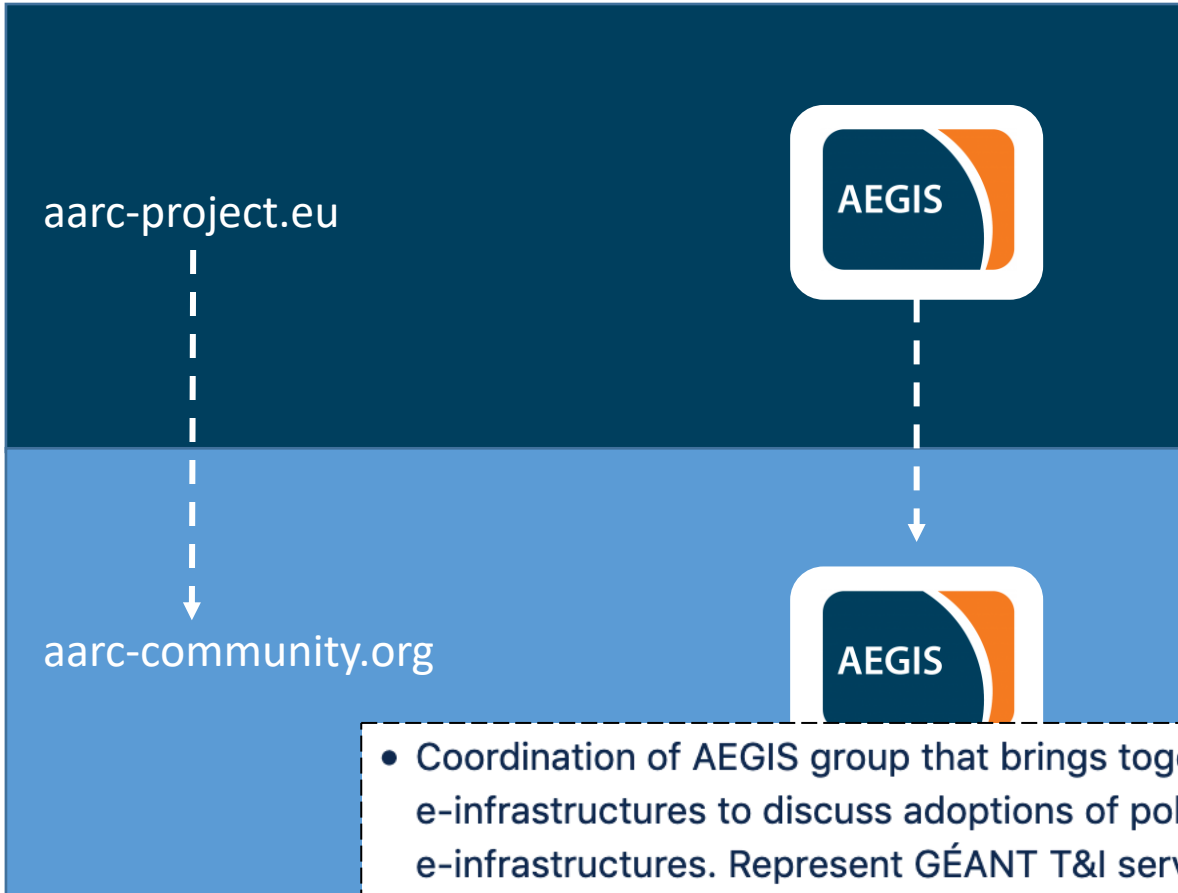
T4 - T&I Enabling Communities

Created by Maarten Kremers, last modified by David Groep on May 25, 2019

"This task will engage with the research communities, identity federations and other relevant communities for WP5 as a whole. The aim of this task is to provide a bidirectional channel with key stakeholders to understand their requirements and use them to drive the evolution of the T&I services and validate new features."

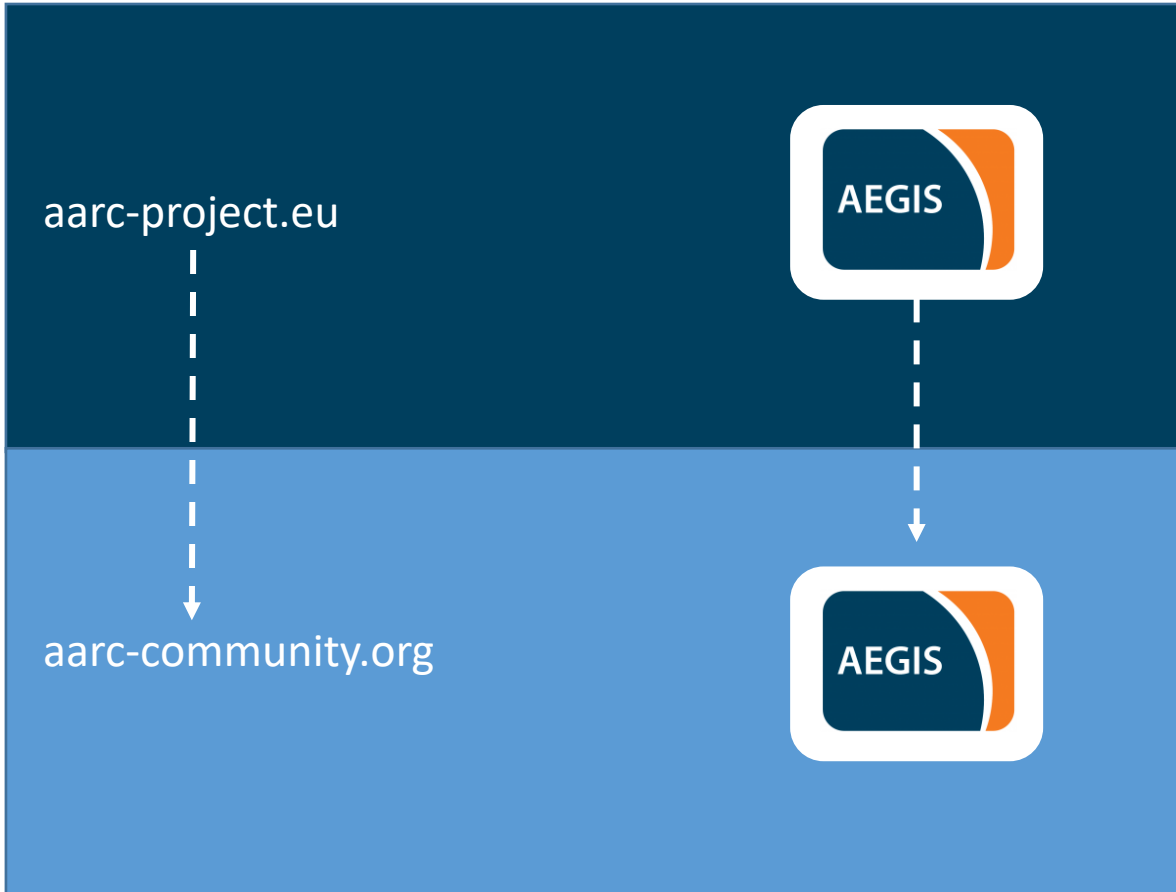This task will address the following work areas:

- Engagement with key stakeholders, such as eScience and identity federations.
- T&I business development coordination in collaboration with the other services in this WP and with WP3.
- Contributions to the wider efforts to improve interoperability of research and e-infrastructures (i.e. Federated Identity Management for Research Collaborations (FIM4R), European Open Science Cloud (EOSC), Research and Education FEDerations group (REFEDS), WISE).
- Engagement with other different sectors (i.e eGov/eIDAS, industry) and with other e-infrastructures to promote federated access and discuss interoperability use-cases.

and this will be address by mens of:

- Community requirements validation for the T&I services and products, particularly those resulting from Task 2.
- eScience (and research) Global Engagement: liaison and contribution to external projects and initiatives such as EOSC-related projects, FIM4R, REFEDS and WISE, etc., and inform the overall project team abreast of relevant developments.
- Coordination of AEGIS group that brings together global representatives from AAI operators in research and e-infrastructures to discuss adoptions of policy and technical best practices that facilitate interoperability across e-infrastructures. Represent GÉANT T&I services (i.e. eduTEAMS and eduGAIN) in the AEGIS group.
- Coordination of and contribution to the maintenance of the AARC/AARC2 project relevant results in line with the process defined by the AARC2 project.

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Sustainability: beyond the AARC project

aarc-project.eu

aarc-community.org

AEGIS Charter

The **AARC Engagement Group for Infrastructures** (AEGIS) brings together representatives from research and e-infrastructures, operators of AAI services to bridge communication gaps and make the most of common synergies.

AEGIS ultimately enhances the wider and more effective uptake of AAI recommendations by infrastructures in their federated access solutions, so that they can focus on providing other support for research activities.

Objectives and Scope of AEGIS

- Consult the expertise of participants for feedback on AAI activities;
- showcase ongoing implementation efforts of the AARC Blueprint Architecture;
- promote a consistent vision for federated access;
- facilitate activities for the adoption of harmonised solutions and avoid 'reinventing' the wheel;
- report on the adoption of and provide guidance on the AARC guidelines;
- provide a home for the adoption and further development of the AARC Blueprint Architecture;
- maintain, develop, and organisationally support the AARC community;
- liaise with other entities in the AAI ecosystem.

Participation

There are two ways to participate in AEGIS:
- Members - Research and e-infrastructures and other organizations responsible for the operation of AAIs for international research collaborations following the AARC

Sustainability: beyond the AARC project – AEGIS Charter Objectives and Scope

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Participation

- **Members** - Research and e-infrastructures and other organizations responsible for the operation of AAIs for international research collaborations following the AARC guidelines relevant to their interoperability with AEGIS peers. Each member can appoint up to two individuals to represent the organization in AEGIS.

- **Observers** - AEGIS welcomes parties that may have an interest in using AARC guidelines or that are in the process of implementing an AAI that follows the AARC BPA. Observers should be invited by an AEGIS member and endorsed by the AEGIS membership. Observers do not vote nor endorse documents.

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Working Areas

Work areas are supported by topical groups that will submit pertinent results to AEGIS for endorsement. AEGIS focuses on interoperability for authentication and authorisation for research and collaboration infrastructures. In light of this, two main areas have been identified: an **architecture area** and **a policy area**. Both areas take as a starting point the final results of the AARC2 project; both areas are responsible for the maintenance of the AARC guidelines suite. Each area will have two co-chairs that are AEGIS ex-officio members.

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Delivery Platforms in AARC2
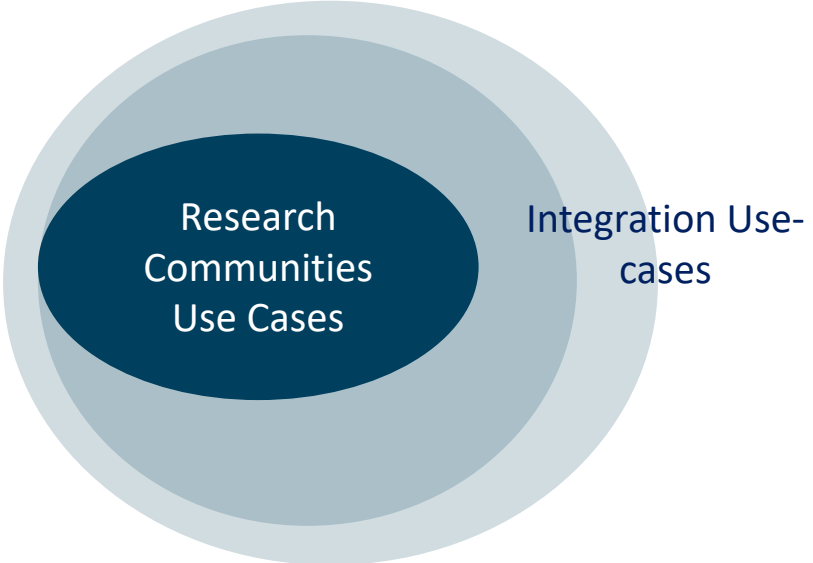
AEGIS **AARC**

AARC Engagement Group for Infrastructures (AEGIS) ⟷ Research/e-Infrastructures

AEGIS Working Areas

Architecture | Policy

Research Communities Use Cases

Integration Use-cases

FIM4R ⟷ Research Communities

Delivery Platforms in AARC2

AARC Engagement Group for Infrastructures (AEGIS)	⟷	Research/e-Infrastructures

Architecture	**Christos Kanellopoulos**
	Nicolas Liampotis
Policy	**David Groep**
	Dave Kelsey

AEGIS Working Areas

Integration Use-cases

FIM4R	⟷	Research Communities

AARC Recommendations in AEGIS

Document	AARC Identifier	Date first presented	Date approved
Guidelines on expressing group membership and role information	AARC-G002	2017-11-13	2017-11-15
Exchange of specific assurance information between Infrastructure	AARC-G021	2018-03-12	2018-03-12
Guidelines for evaluating the combined assurance of linked identities	AARC-G031	2018-05-14	2018-07-09
Specification for expressing resource capabilities	AARC-G027	2018-12-10	2018-12-10
Implementing scalable and consistent authorisation across multi-SP environments	AARC-I047	2019-03-11	2019-03-11
A specification for IdP hinting	AARC-G049	2019-03-11	2019-04-08
Guidelines for expressing affiliation information	AARC-G025	2019-03-11	2019-10-14

AEGIS Architecture Working Area

Approved

AARC Blueprint Architecture 2019

Abstract

The AARC Blueprint Architecture (BPA) provides a set of building blocks for software architects and technical decision makers who are designing and implementing access management solutions for international research collaborations. This document describes the evolution of the AARC Blueprint Architecture, starting with a summary of the changes since AARC-BPA-2017. The current iteration of the BPA focuses on the interoperability aspects, to address an increasing number of use cases from research communities requiring access to federated resources offered by different research and e-Infrastructures. Hence the introduction of the Community AAI, which streamlines researchers' access to services. These typically include services offered to members of a specific community, as well as infrastructure services that may be shared with other communities. Users can authenticate to the Community AAI primarily via institutional credentials from national identity federations in eduGAIN, but, if permitted by the community, can also use other Identity Providers.

Table of Contents

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Work in Progress

Recommendations for OpenID Connect/OAuth2 token-based access across different infrastructures~~Specification for validating externally issued OAuth2 tokens~~

Abstract

This document provides a specification ...

- EOSC Working Groups
  - official part of the EOSC Governance structure
  - community-sourced approach to the current challenges of the EOSC.

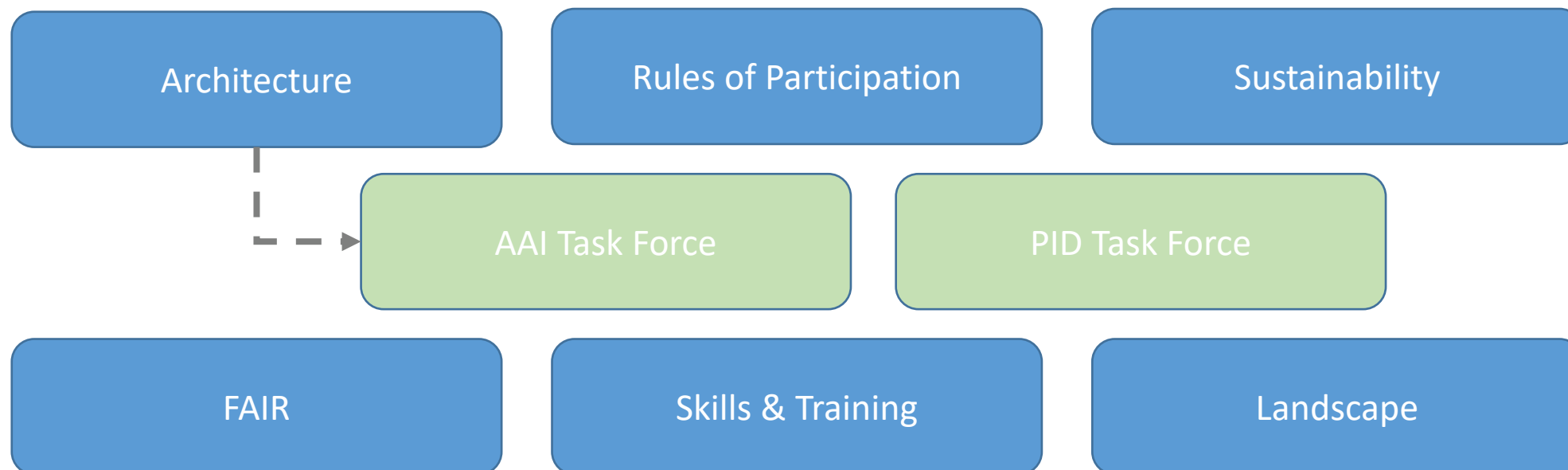|		
Architecture	Rules of Participation	Sustainability

FAIR	Skills & Training	Landscape

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  - community-sourced approach to the current challenges of the EOSC.

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AAI Task Force	PID Task Force

FAIR	Skills & Training	Landscape

- D1 - EOSC AAI Problem Statement – Requirements Analysis
  - M1 [Q4-19]: Liaison with other bodies (inside and outside EOSC) - Liaison with other EOSC WGs, H2020 projects, community bodies like AEGIS

- D2 - EOSC AAI Baseline Expectations - First Principles

- D3 - Inventory of existing material

- D4 - EOSC AAI Architecture
  - M2 [Q1-20]: EOSC AAI architecture draft - First draft of the proposed EOSC AAI

- D5 [Q3-20]: EOSC AAI rules of participation / governance - Description of EOSC AAI Governance (LudekM (member, not coordinating)

D4 - EOSC AAI Architecture

As a starting point, this document is based on the AARC Blueprint Architecture 2019 (AARC-BPA-2019). *The goal of the EOSC AAI is not to define a new AAI architecture, but rather to define an AAI architecture that follows the AARC BPA and the AARC Interoperability Guidelines and to work with the international community through AARC and AEGIS and shape the upcoming versions of the Blueprint Architecture to meet the evolving needs of EOSC.*

D4 - EOSC AAI Architecture

Challenges – Areas of further work:

- The wording "community attribute services" is oversimplifying the important architectural component(s) of Attribute Providers (AtP)

- *Cross proxy validation of Tokens*

- *Scaling to large number of e-Infrastructure Proxies*

Thank you
Any Questions?

Christos.Kanellopoulos@geant.org

http://aarc-project.eu/