

FIM4DARIAH

5th FIM4R Meeting, Villigen 20.03.2013

Peter Gietz, DAASI International GmbH
DARIAH-DE / DARIAH-EU VCC 1 e-Infrastructure

Agenda

- Intro DARIAH
- DARIAH AAI
- European Role model for DARIAH-EU



What is DARIAH?

- DARIAH: Digital Research Infrastructure for the Arts and Humanities
- One of the few ESFRI research infrastructures for the humanities
- DARIAH's mission is to develop, maintain and operate an infrastructure in support of ICT-based research practices
 - Infrastructure is administration, software and storage services but also Curricula and Methodology
- Working with communities of practice
 - To ensure that best practices, methodological and technical standards are followed

Countries participating in DARIAH

- Austria
- Croatia
- Denmark
- France (Host Country)
- Germany (Coordinator)
- Greece
- Ireland
- The Netherlands (Coordinator)
- Slovenia
- Serbia
- ...



To National Ministries
Interested in Supporting DARIAH



Memorandum of Understanding

Dear Sir or Madam,

Desiring to further strengthen Europe's position in research in the world, and to intensify scientific cooperation across disciplinary and national boundaries, the Ministère de l'Enseignement Supérieur et de la Recherche (France) and the Bundesministerium für Bildung und Forschung (Germany) take great pleasure in inviting you on behalf of all DARIAH partners and associated partners to sign the Memorandum of Understanding.

In January 2011 DARIAH will embark on its Construction Phase as part of the ESFRI process. The expression of our international agreement with a joint signature of a non-binding Memorandum of Understanding is an important step forward in the process of establishing DARIAH ERI (European Research Infrastructure Consortium). Moreover, the signature promotes the project within the national roadmaps.

We sincerely hope that you will sign the Memorandum of Understanding by the end of September to show that your country is interested in participating in the DARIAH ERI to benefit from its Digital Research Infrastructure for the Arts and Humanities.

Yours faithfully,

Michel Lebouche et Jacques Dubucs
Ministère de l'Enseignement Supérieur et de la Recherche
Direction générale pour la Recherche et de l'Innovation



Angelika Willms-Hergert
Bundesministerium für Bildung und Forschung
Referat für Geistes-, Sozial- und Kulturwissenschaften



DARIAH collaboration

Affiliated projects

- CENDARI, DASISH, EHRI, NeDiMAH

Sibling initiatives

- BAMBOO, CLARIN, TEI

Cultural heritage initiatives

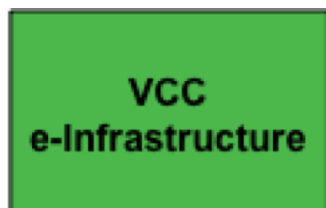
- Europeana, DC-Net

Technological initiatives

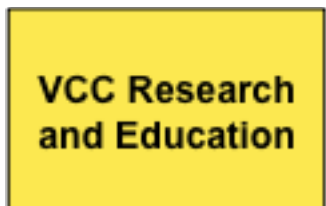
- EGI, EUDAT



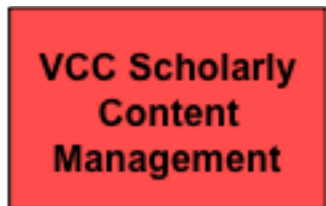
DARIAH Virtual Competency Centres (VCCs)



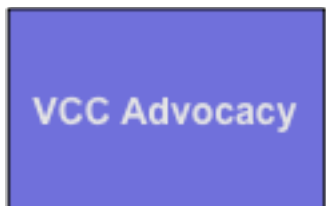
- To establish a shared technology platform for Arts and Humanities research



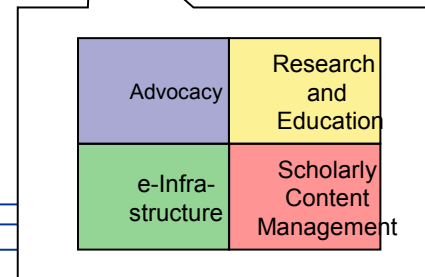
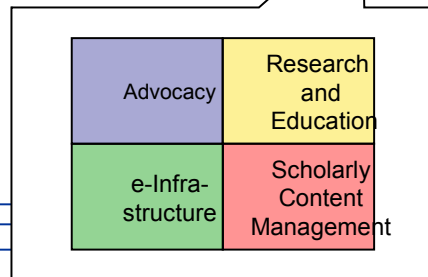
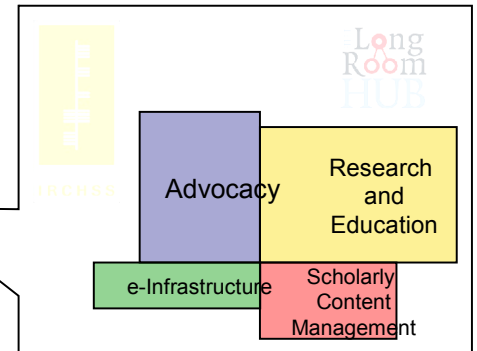
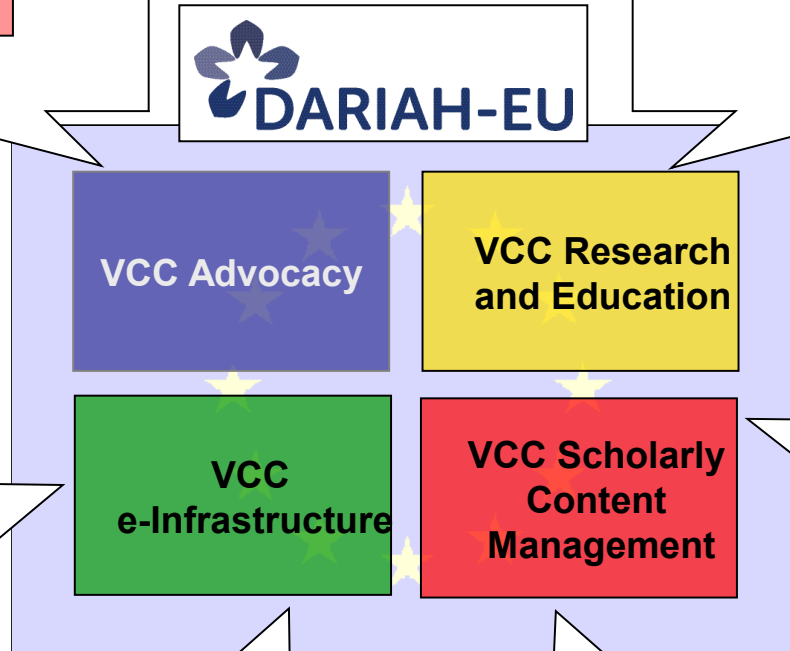
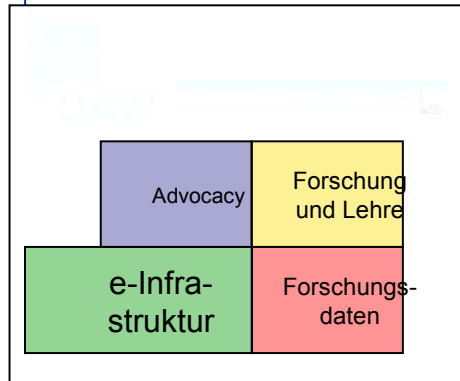
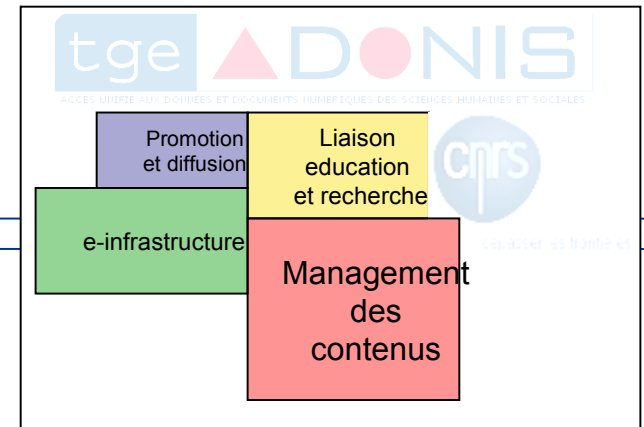
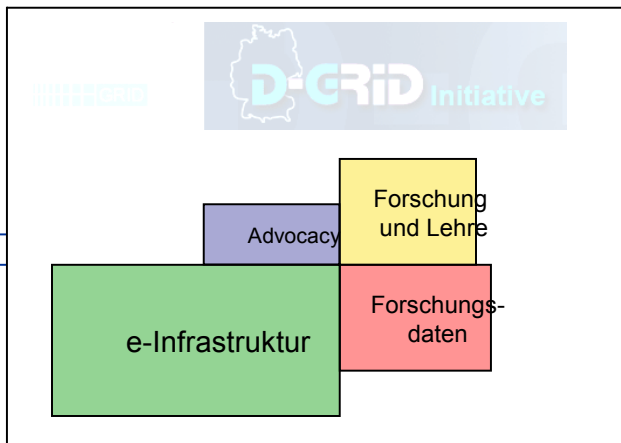
- To expose and share researcher's knowledge, methodologies and expertise



- To facilitate the exposure and sharing of scholarly content



- To interface with key influencers in and for the Arts and Humanities



... more countries DARIAH-nn ...

AAI requirements

- The AAI service must be easy to use, ideally using their own institutional credentials (if available)
- Single sign-on to all (DARIAH) resources, tools and services in an ideal world, researchers could use the same credential in any 'academic' context.
- Authorisation granularity
 - e.g. access to 'sensitive data': EHRI (European Holocaust Research Infrastructure)

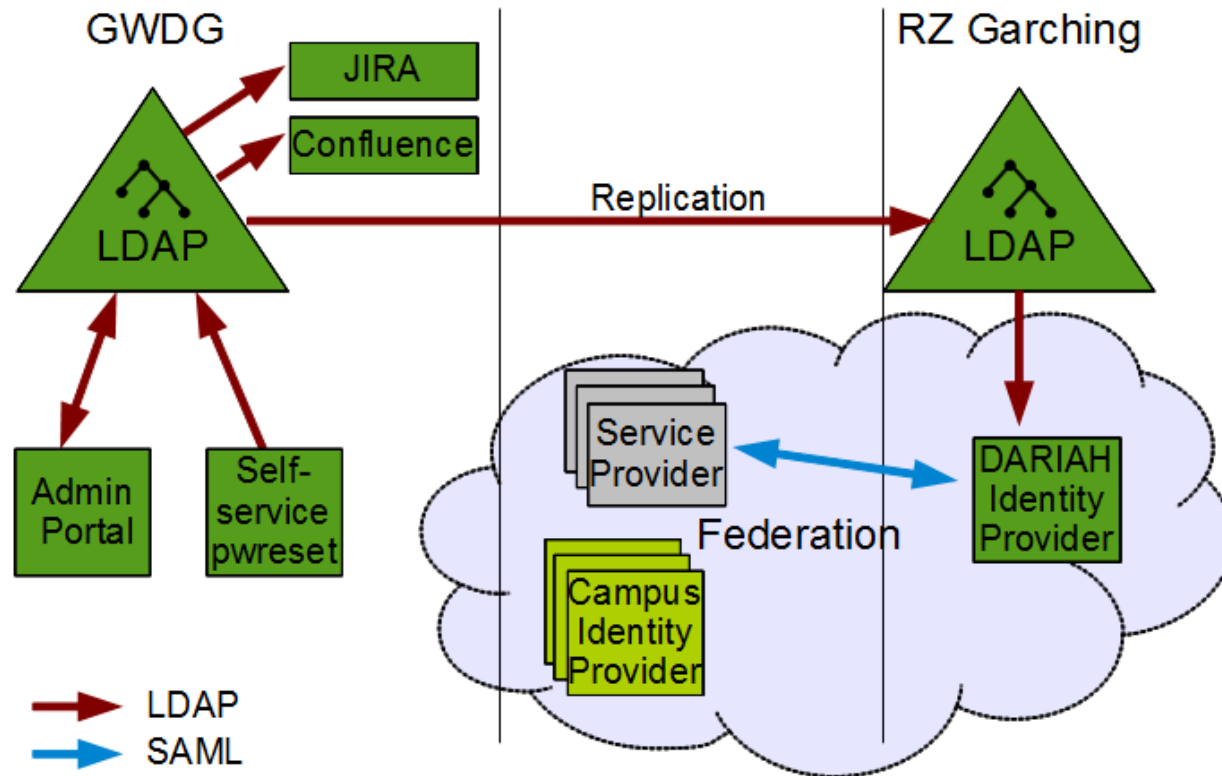
DARIAH AAI Practice

Current AAI set-up: a first version of an AA infrastructure has been deployed, based on two standards:

- LDAP
 - for authentication and authorization attributes
 - deploying Open Source Software OpenLDAP
- SAML
 - for AAI within a federation
 - including Web Single Sign-On feature
 - deploying Open Source Software Shibboleth



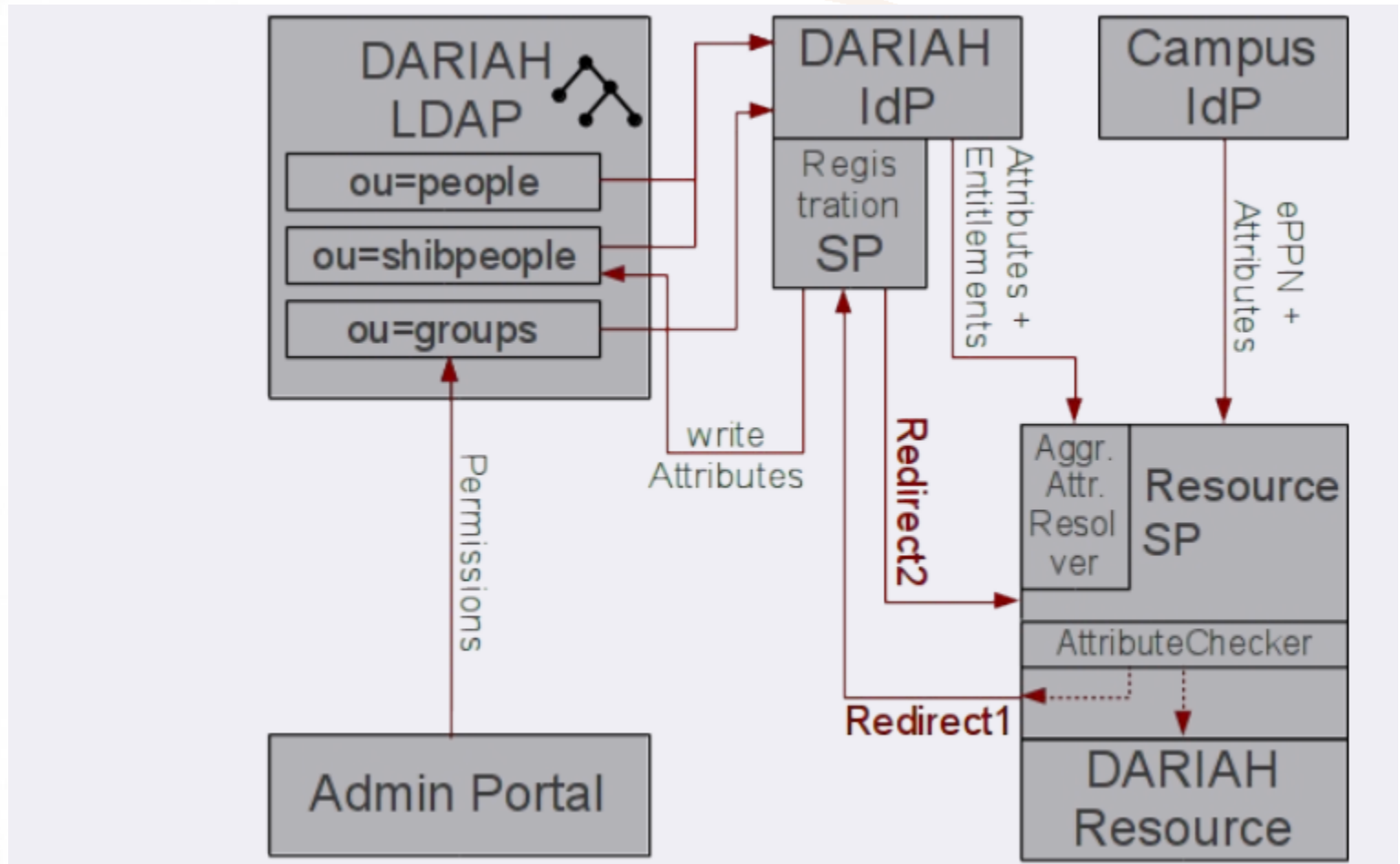
Current Set-Up



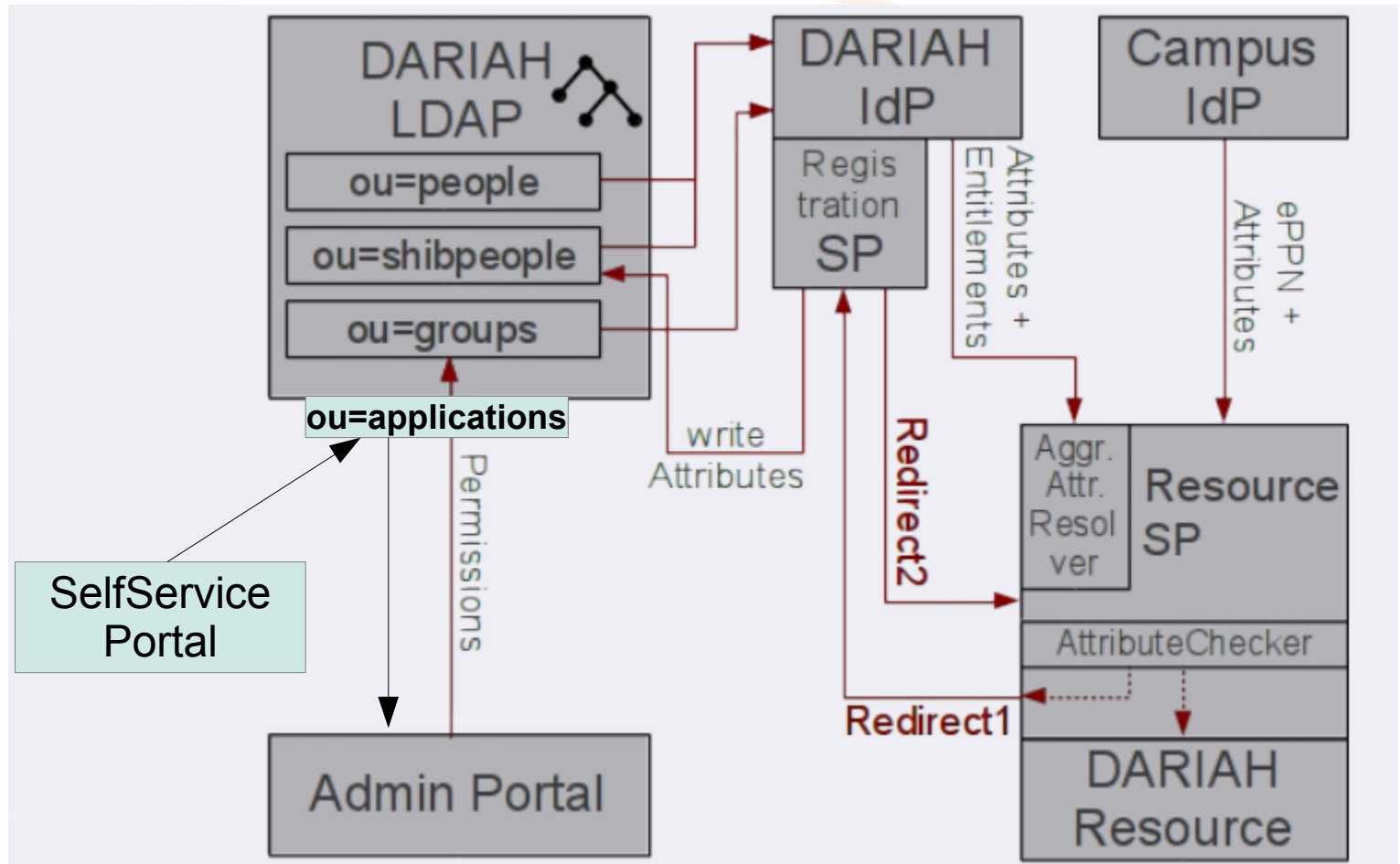
Authorization features

- Use of the Higher-Education SAML-based federations
- No change to campus IdPs except trust / attribute filters
- Standard Shibboleth SP to protect applications, however with special configuration:
 - aggregates attributes from campus and central IdP
 - require minimum set of attributes, otherwise redirect to registration application at central SP
- Central LDAP with authZ groups managed by admin portal
- Central IdP gets data from central LDAP and releases both user attributes and entitlements (based on groups) to SPs
- Central Registration SP writes manually completed user attributes to central LDAP

VO Management and FIM in DARIAH



VO Management and FIM in DARIAH



Current Challenges

- Not every institution signs federation contracts
- Not every Identity Provider releases personal attributes (not even eduPersonPrincipleName)
- Not every resource provider allows anonymous usage
- A European humanities federation is just at its start (CLARIN federation, DASISH activities, eduGain)

IdPs that do not release ePPN

- Due to data protection and privacy issues, some IdP maintainers decide to only release a pseudonymous ID that is
 - cryptic
 - unique for that particular user and SP combination
 - e.g. eduPersonTargetedID (ePTID) or persistentID
- We are working on a solution where user self-asserts any attribute at the DARIAH registration SP
- Use a mapping table
 - SP1' ID1 maps to Registration SP IDX
 - SP2' ID2 maps to Registration SP IDX as well
 - When SP2 sends an Attribute Query for ID2, IdP maps ID2 to IDX, where all user attributes can be found

➤ This is work in progress!

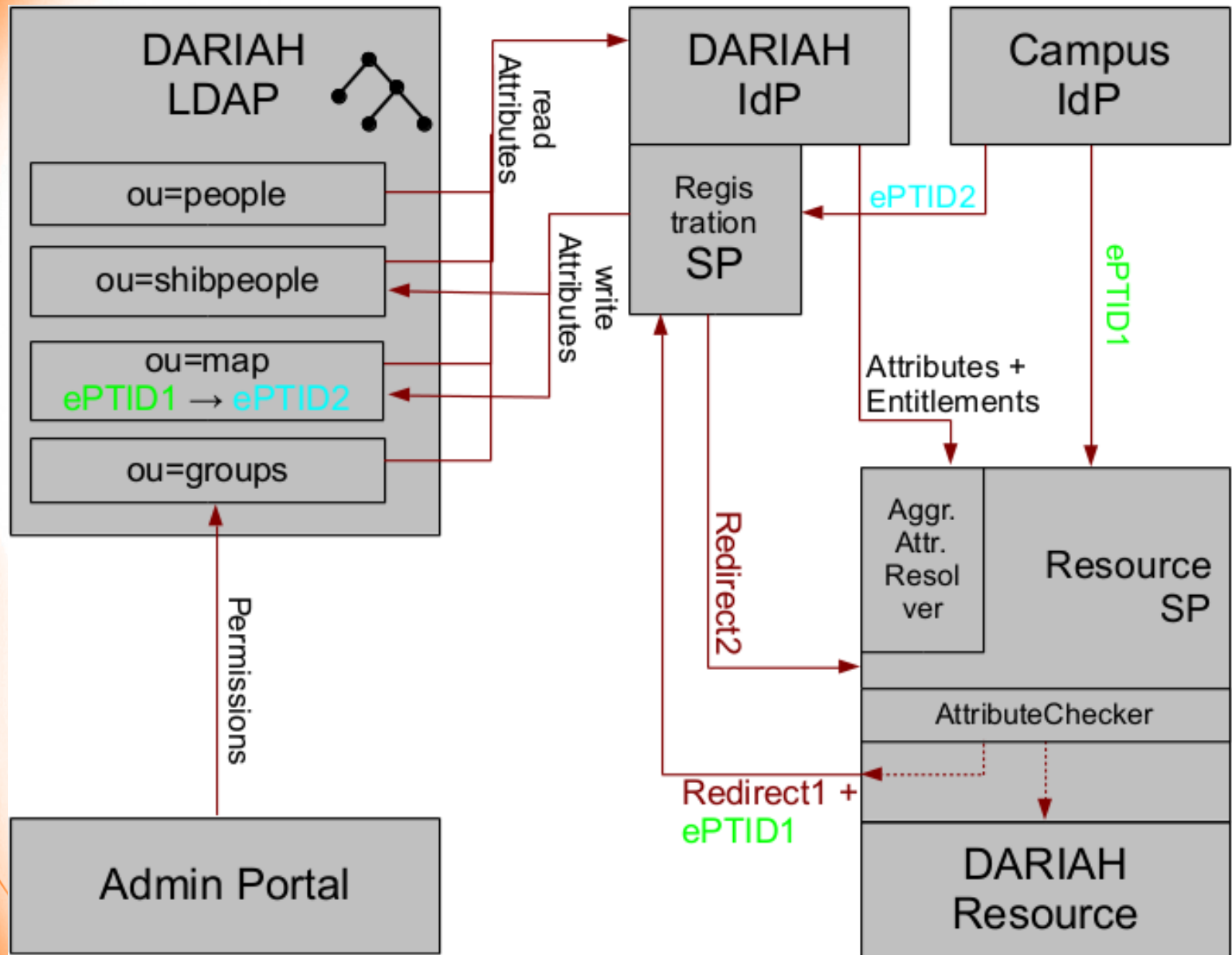


DARIAH-EU

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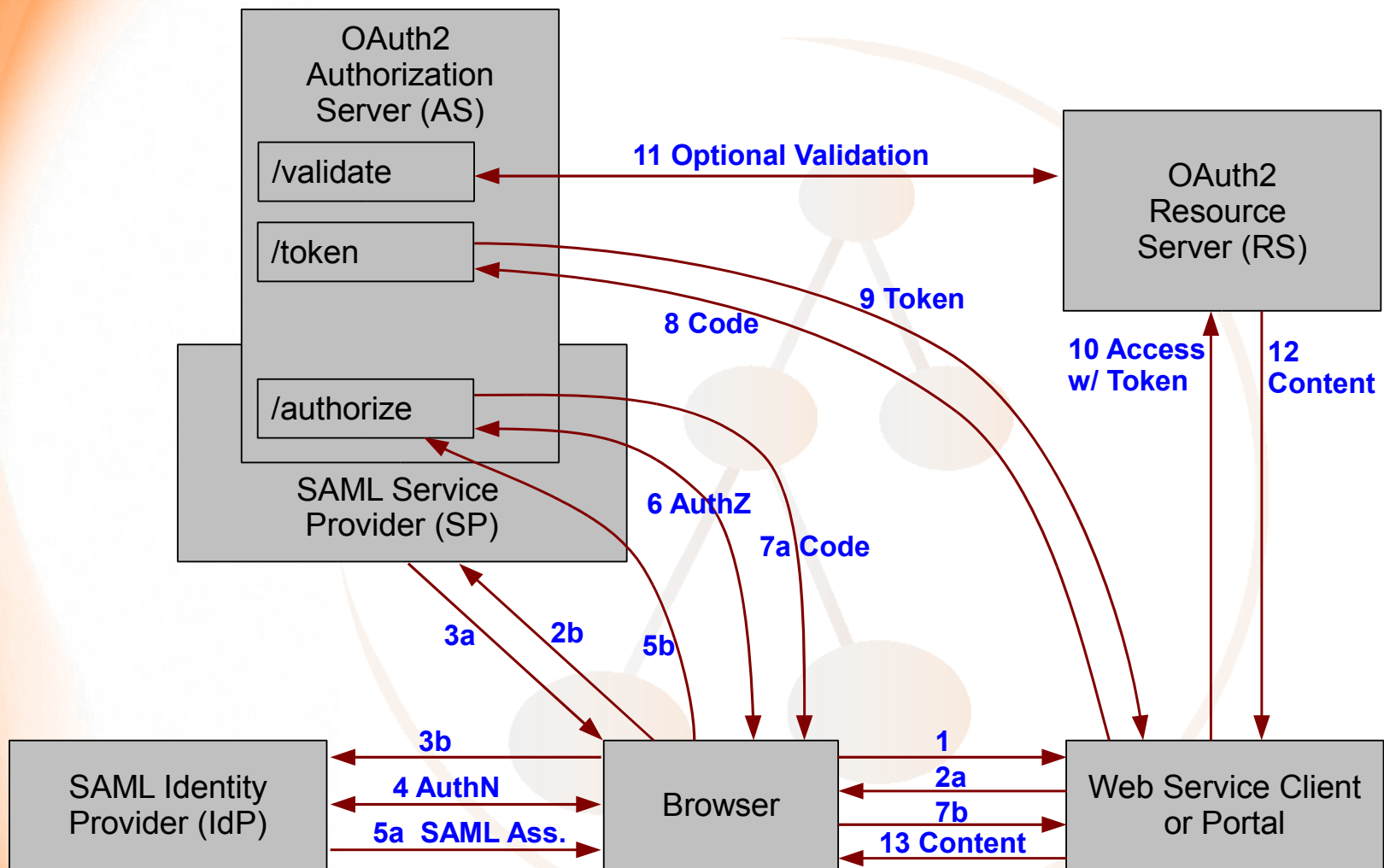


IdPs that do not release ePPN



Plans

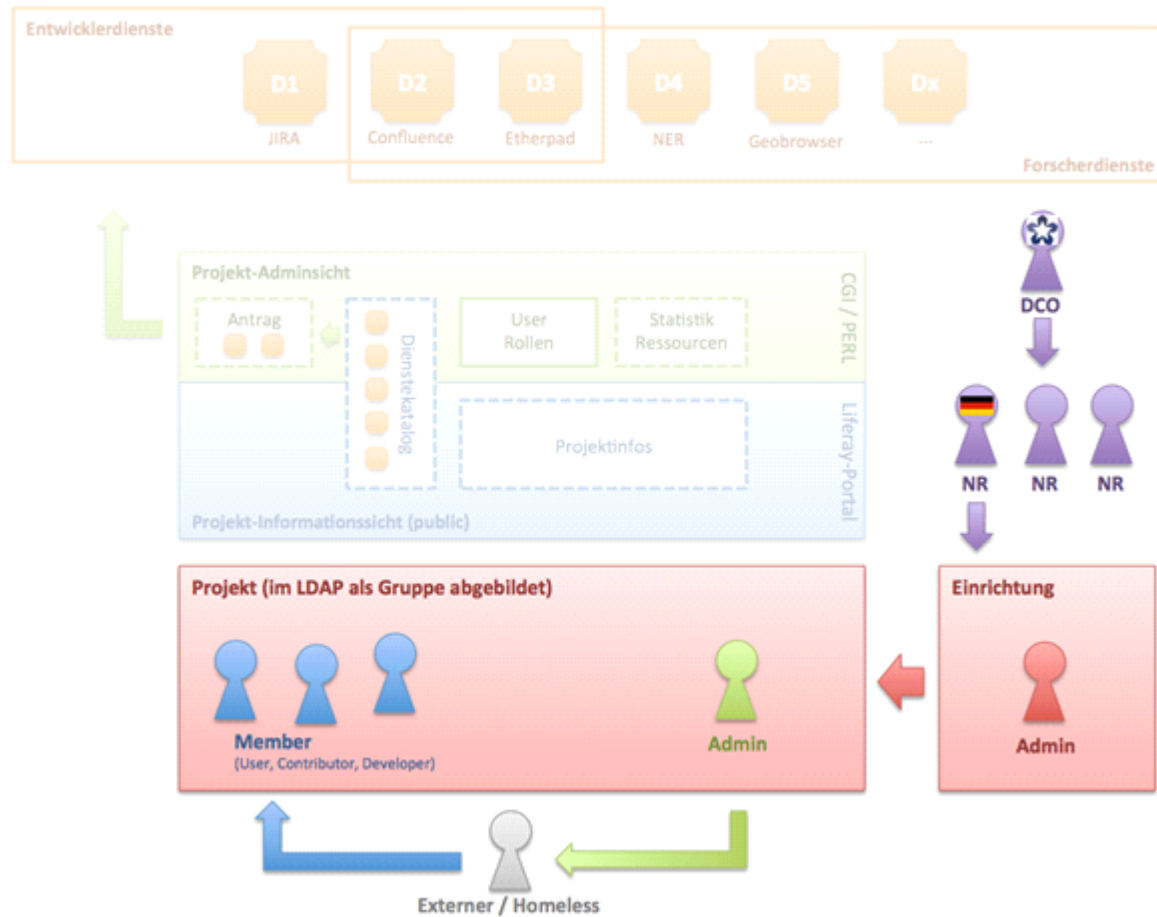
- It is planned to include technologies like OAuth2 and OpenID Connect into the DARIAH SAML based infrastructure
 - A) a SAML based Authentication within an OAuth2-Infrastructure
 - B) an OpenID based authentication in a SAML based infrastructure
- Experiments on these technologies have been performed quite successfully:
 - A) using APIS, ndg, and FKooman OAuth2 Frameworks
 - B) using simpleSAMLphp
- Besides OAuth2 SAML-ECP was tested for Web Services which is no real option because of lack of deployment and configuration burdens in Shibboleth



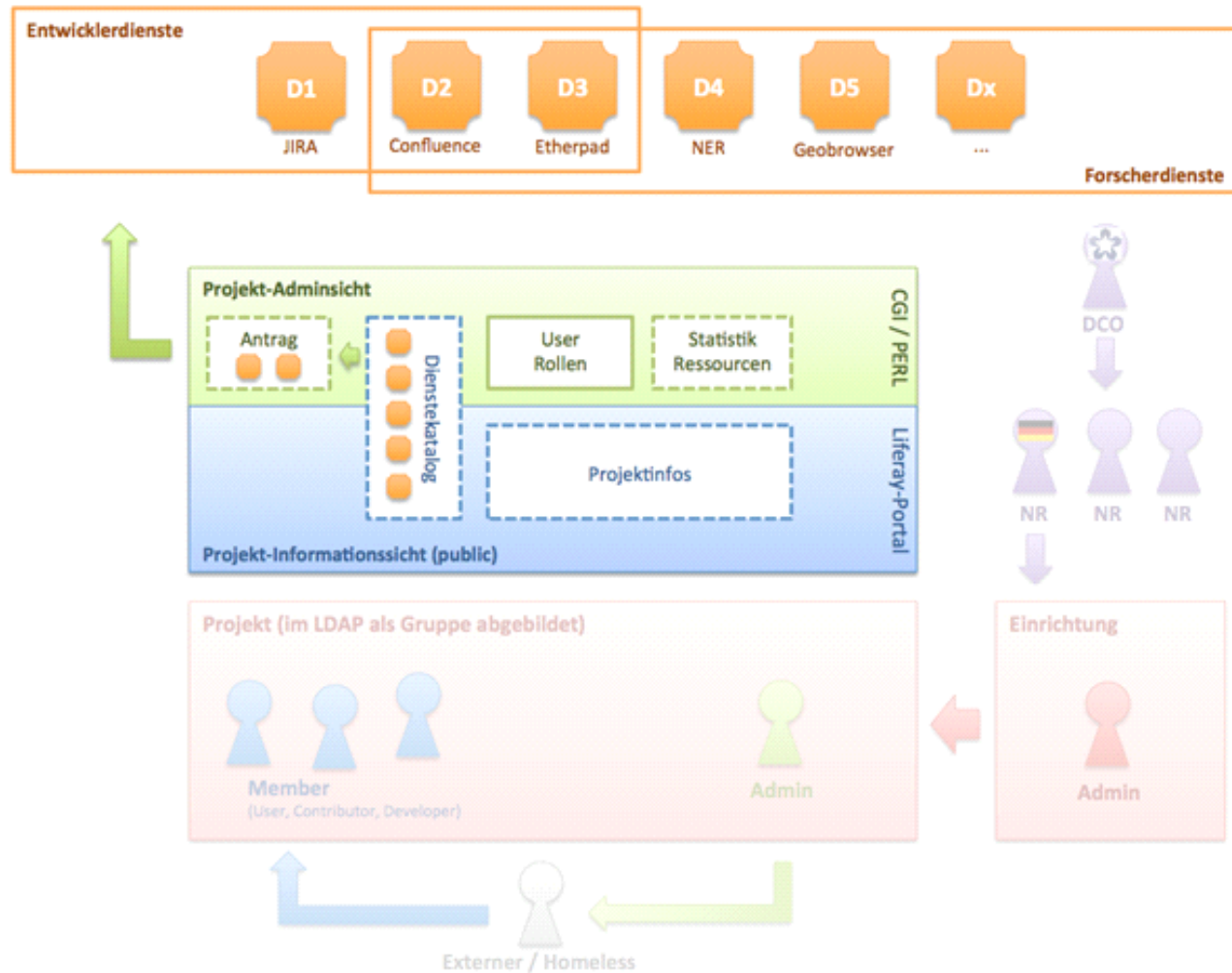
More Plans

- Get a EU-wide federation going
- Support GEANT Data Protection Code of Conduct
- Develop and implement a hierarchical role model

Role model



Role model



Thank You for Your Attention!

- Questions?
- DARIAH
 - www.dariah.eu
- DAASI International GmbH
 - www.daasi.de
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