Organization Information in the Wild

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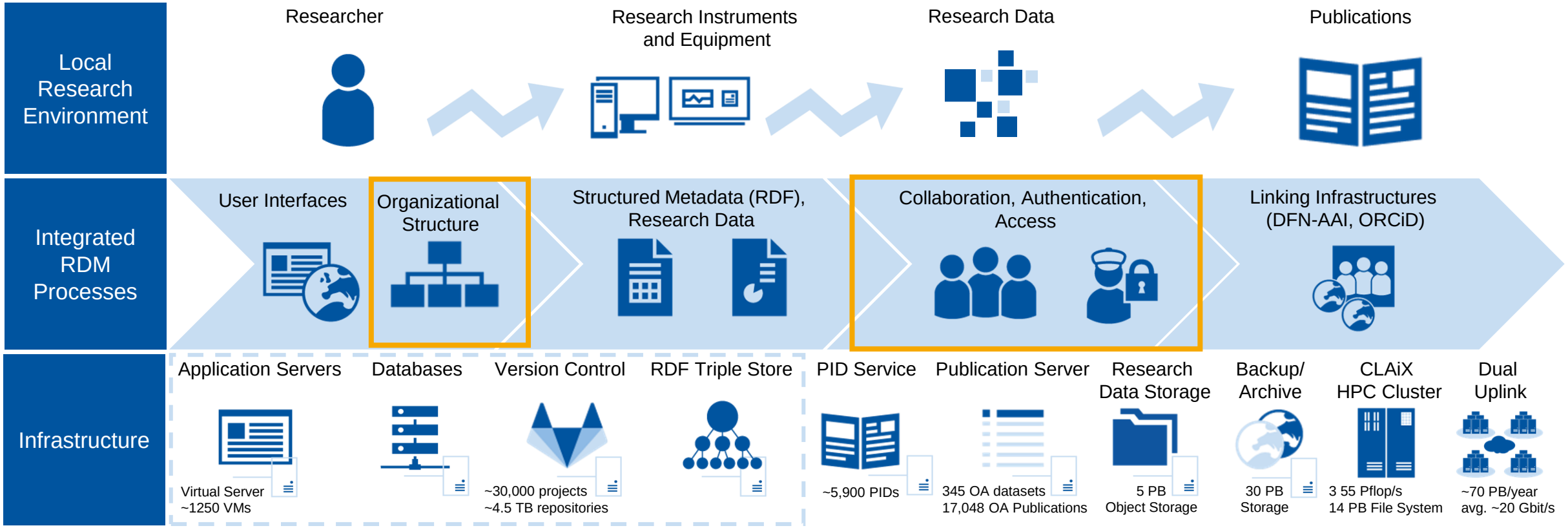
IT Center | RWTH AACHEN UNIVERSITY

Project: RDM – Research Data Management

Technology



Politze, Marius; Claus, Florian; Brenger, Bela; Yazdi, M. Amin; Heinrichs, Benedikt; Schwarz, Annett (2020): How to Manage IT Resources in Research Projects? Towards a Collaborative Scientific Integration Environment. In European Journal of Higher Education IT 2020-1.

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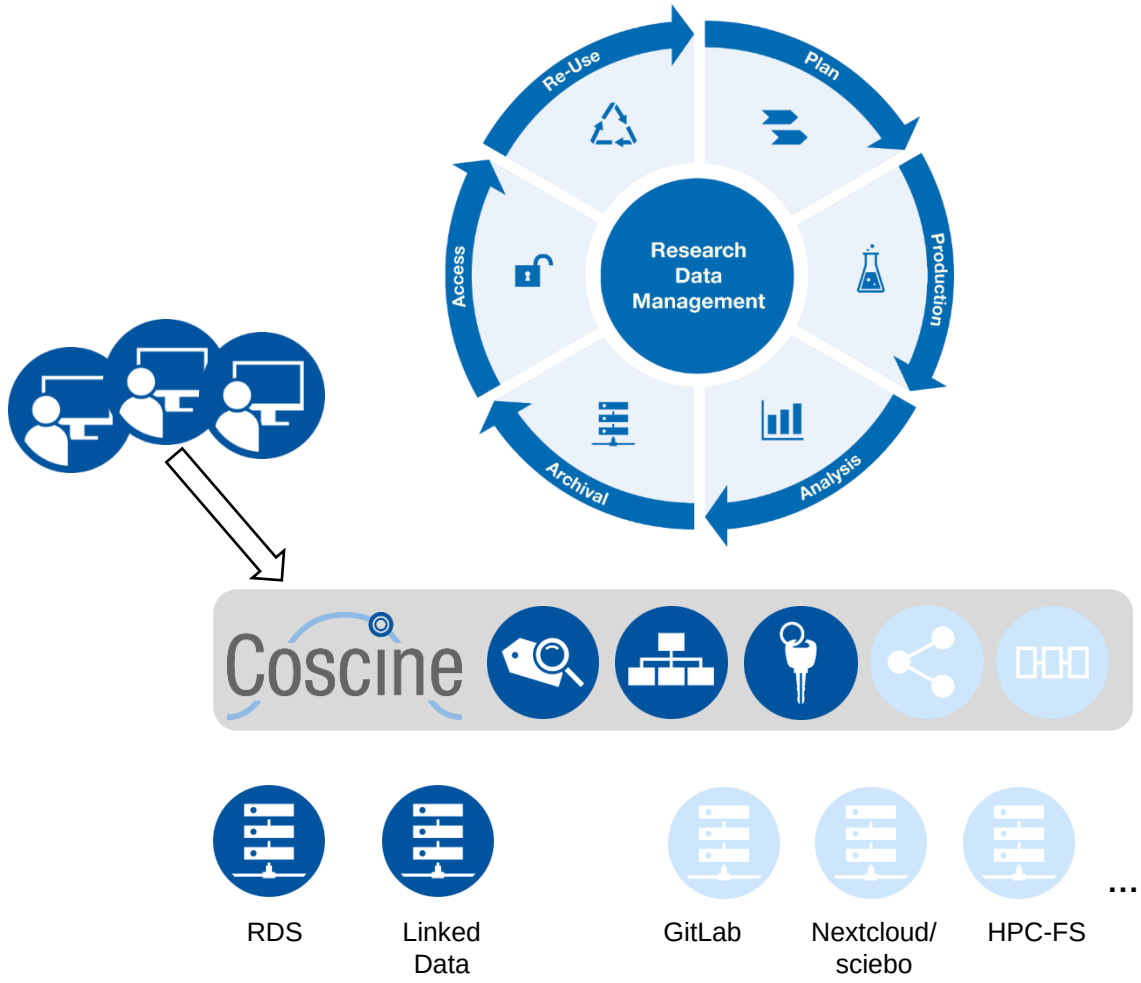
Collaborative Scientific Integration Environment: Integration environment Coscine

Onboarding for RDM services
- Research Data Storage (RDS-NRW), Archiv, GitLab, …
- Web interface with DFN-AAI Sign-On

Support for RDM base processes
- Project and member management
- Flexible metadata schemas and search

Organizational structures and roles
- Technical Administrators
- Data Stewards and Research Data Managers

Open source platform
- Developed and hosted at RWTH Aachen University
- Available for other universities



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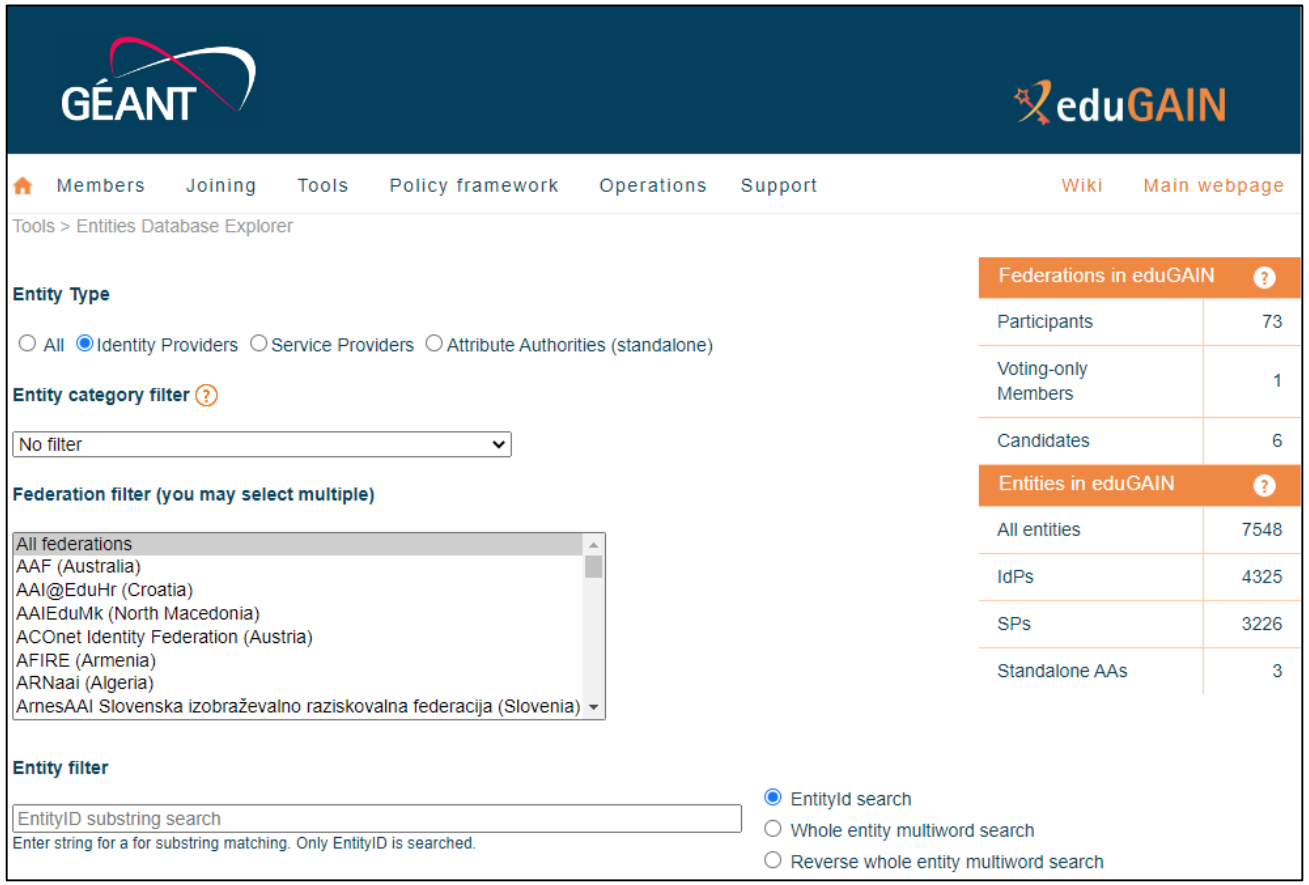
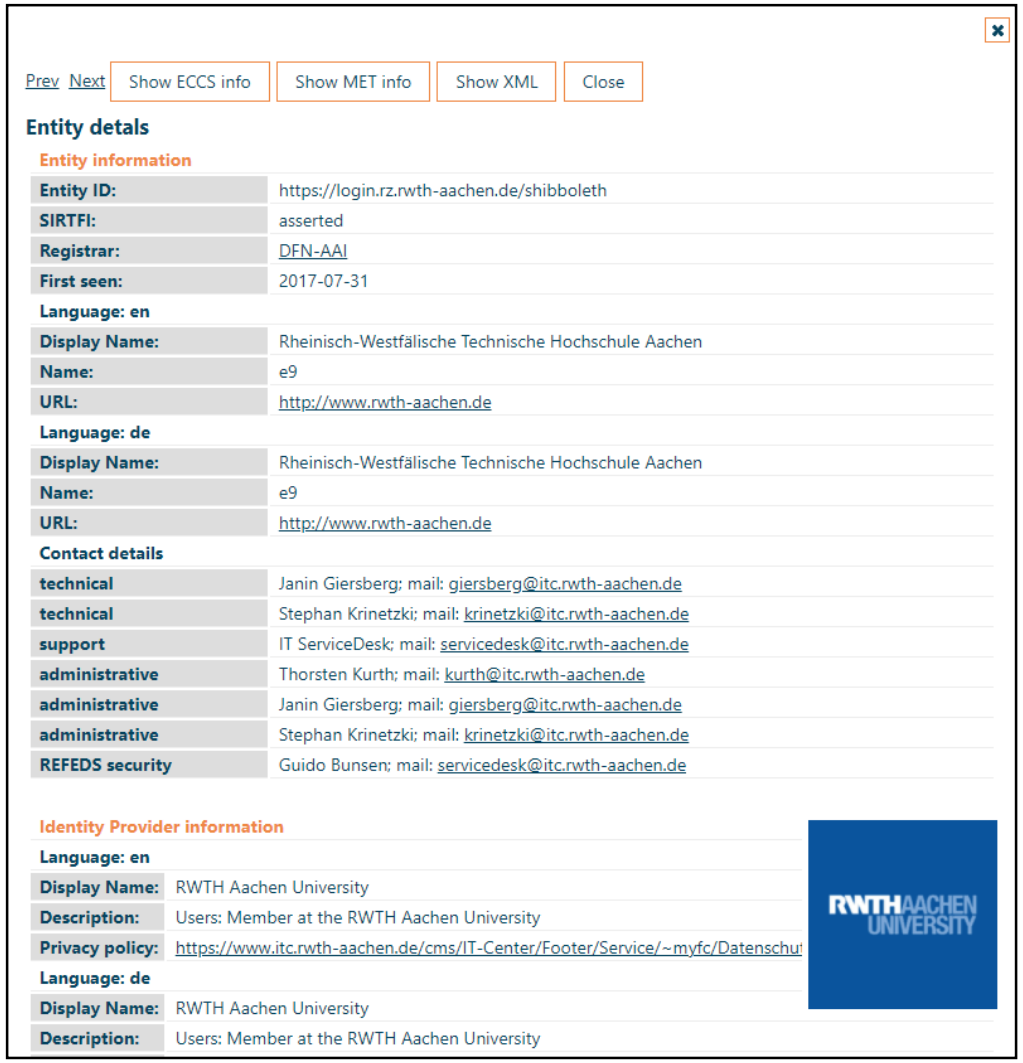
eduGAIN AAI and Its' Subsidaries





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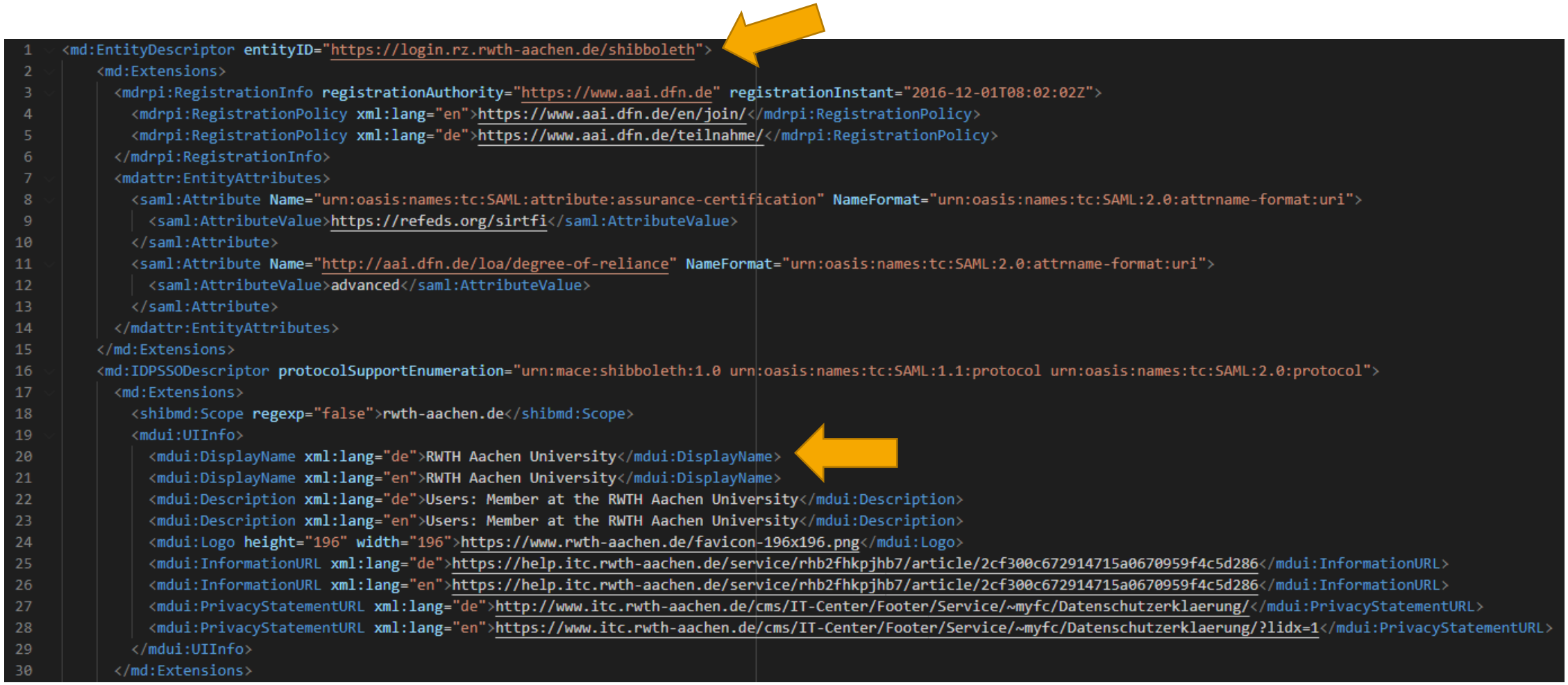
eduGAIN Metadata on Organizations



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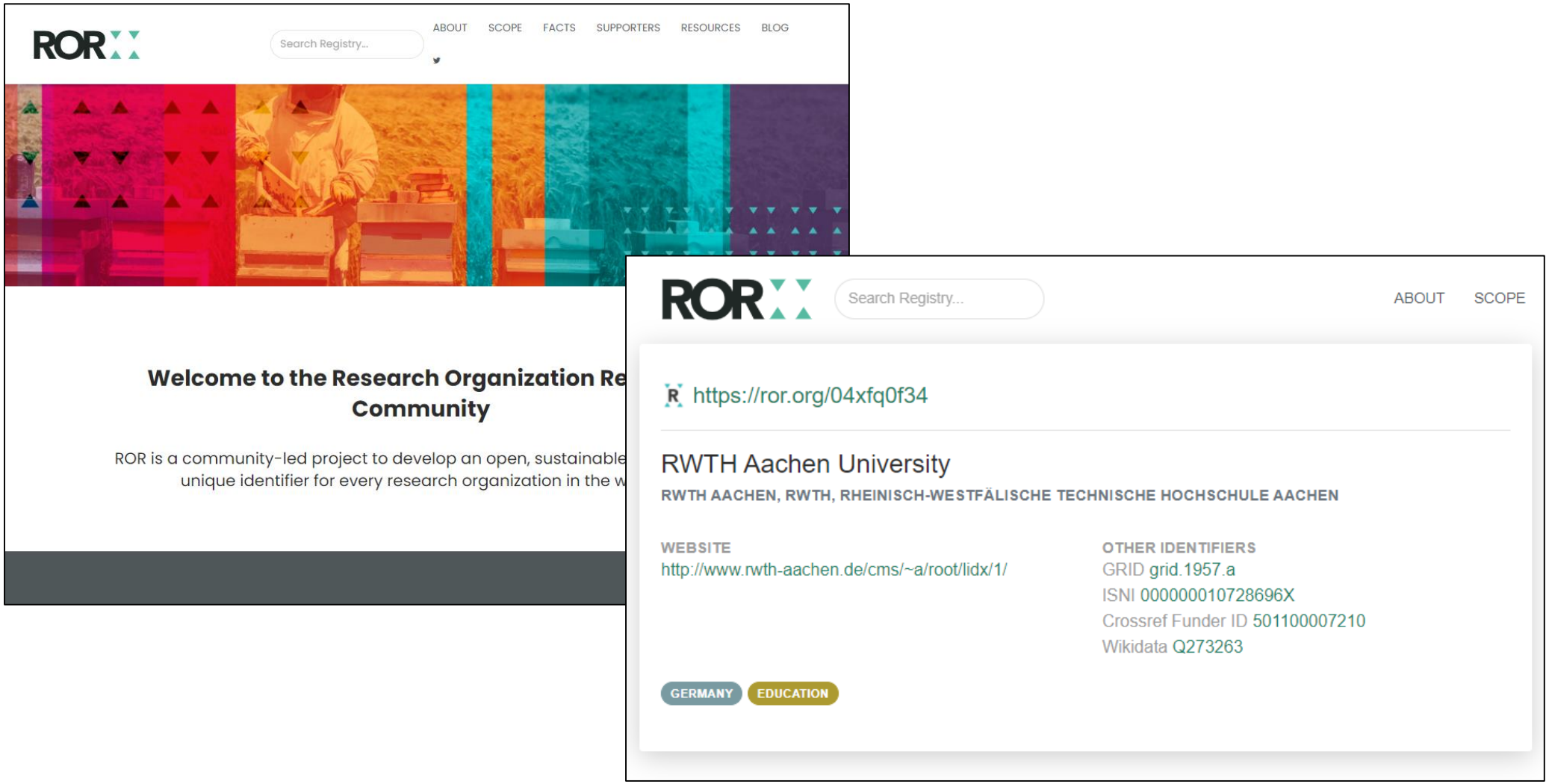
ROR – Research Organization Registry



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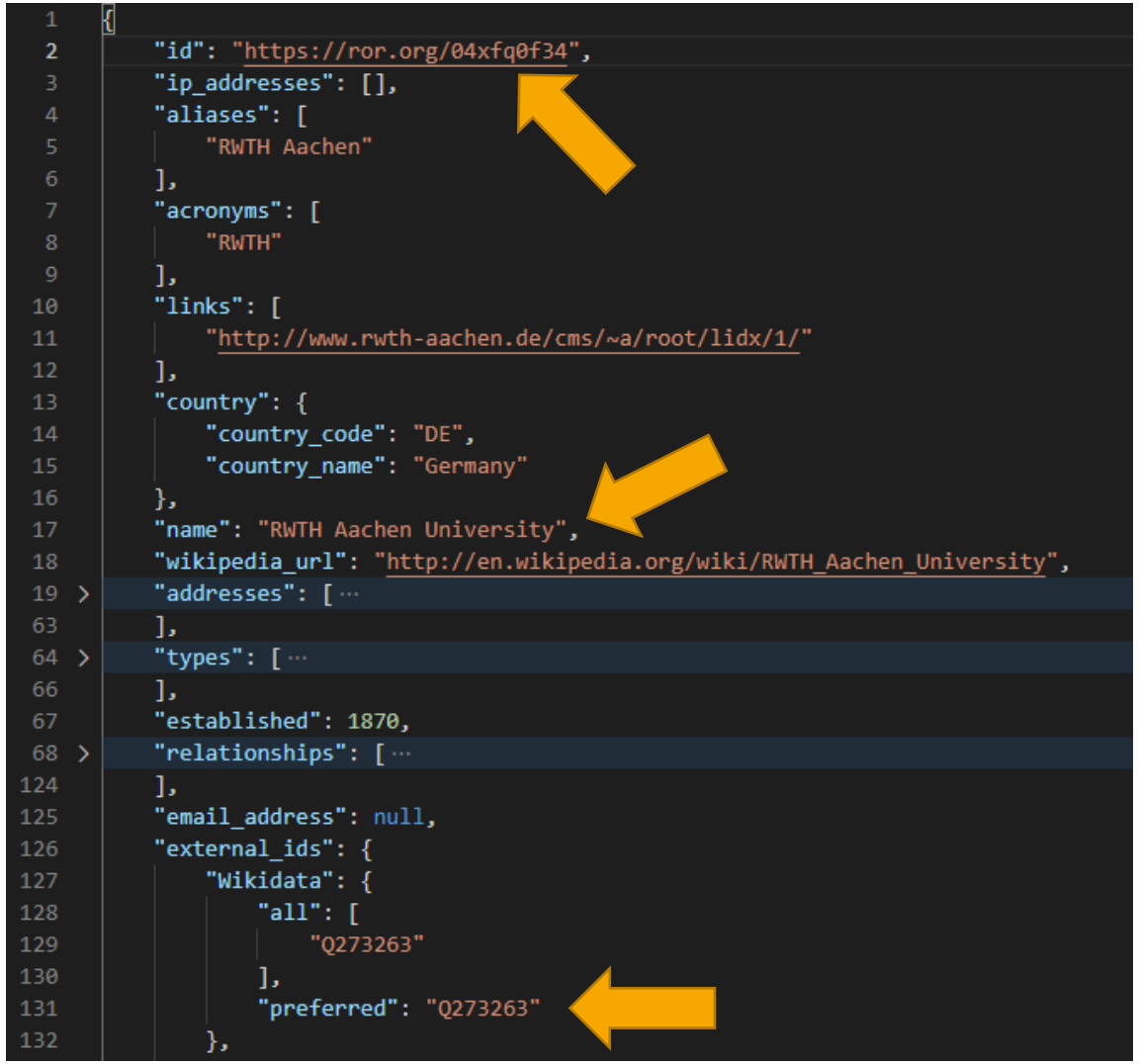
Closer Look at ROR Metadata



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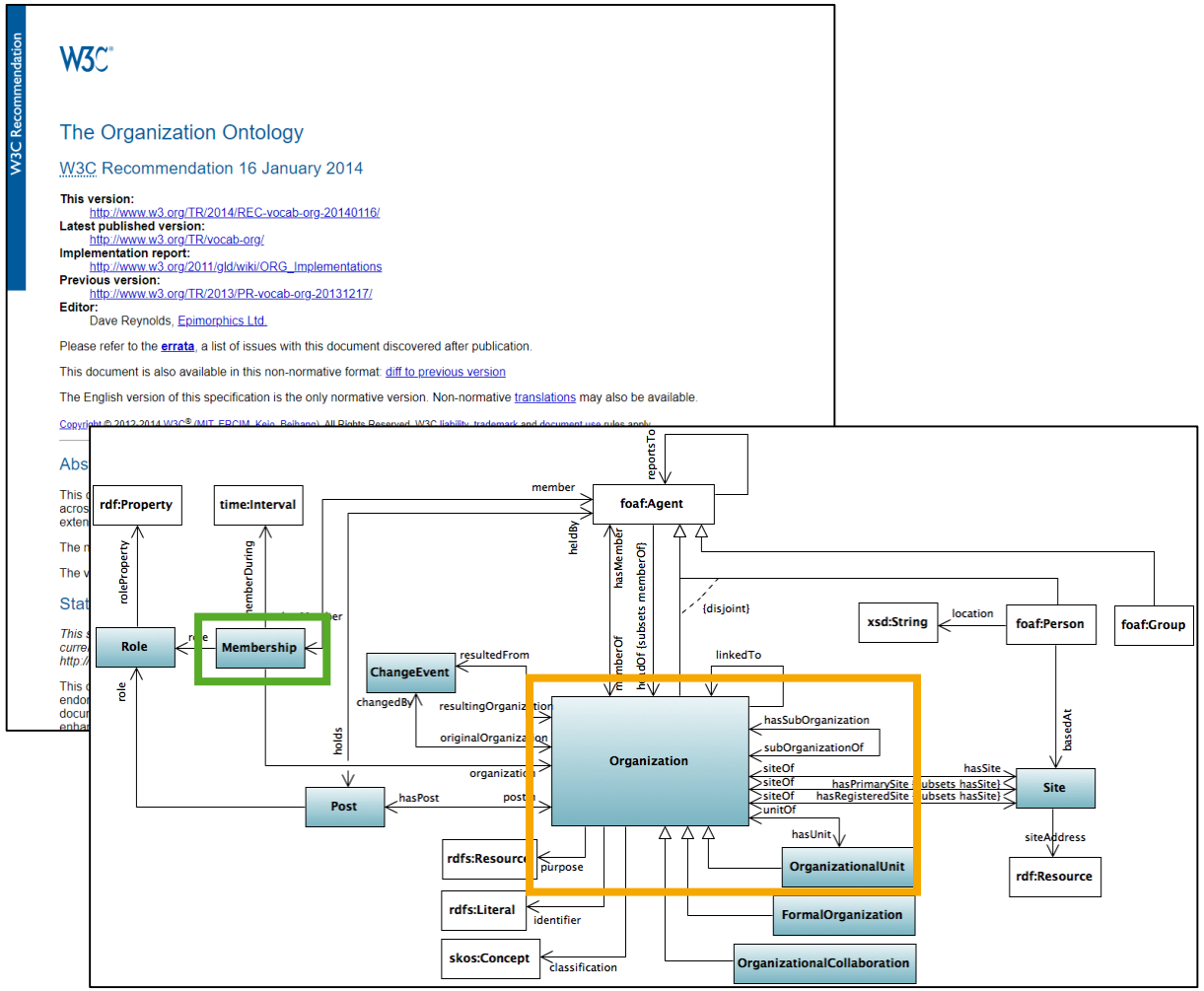
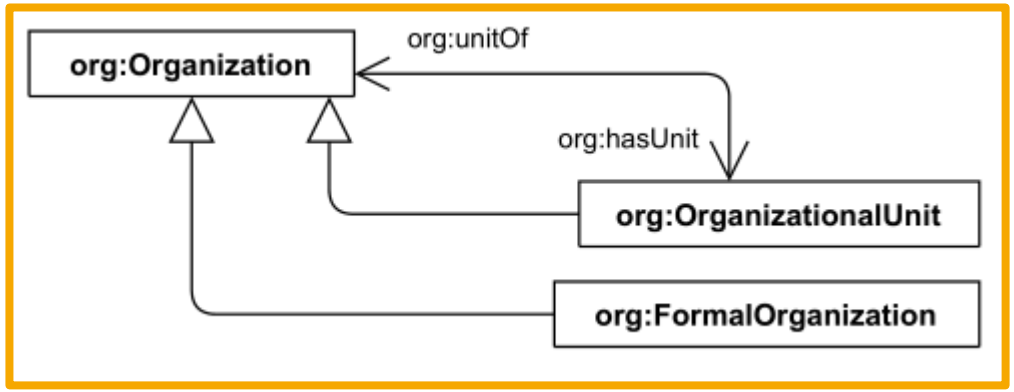
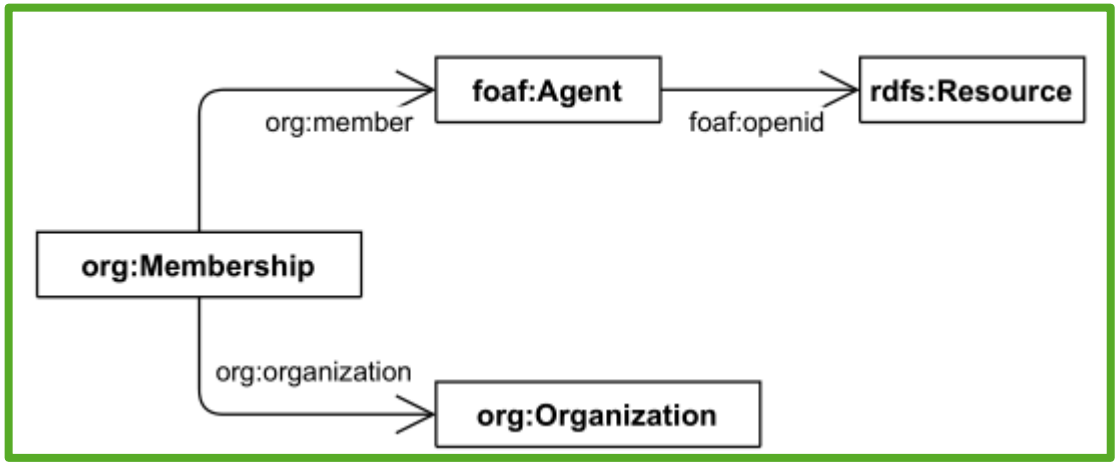
Modeling Organizational Structures: ORG – The Organization Ontology







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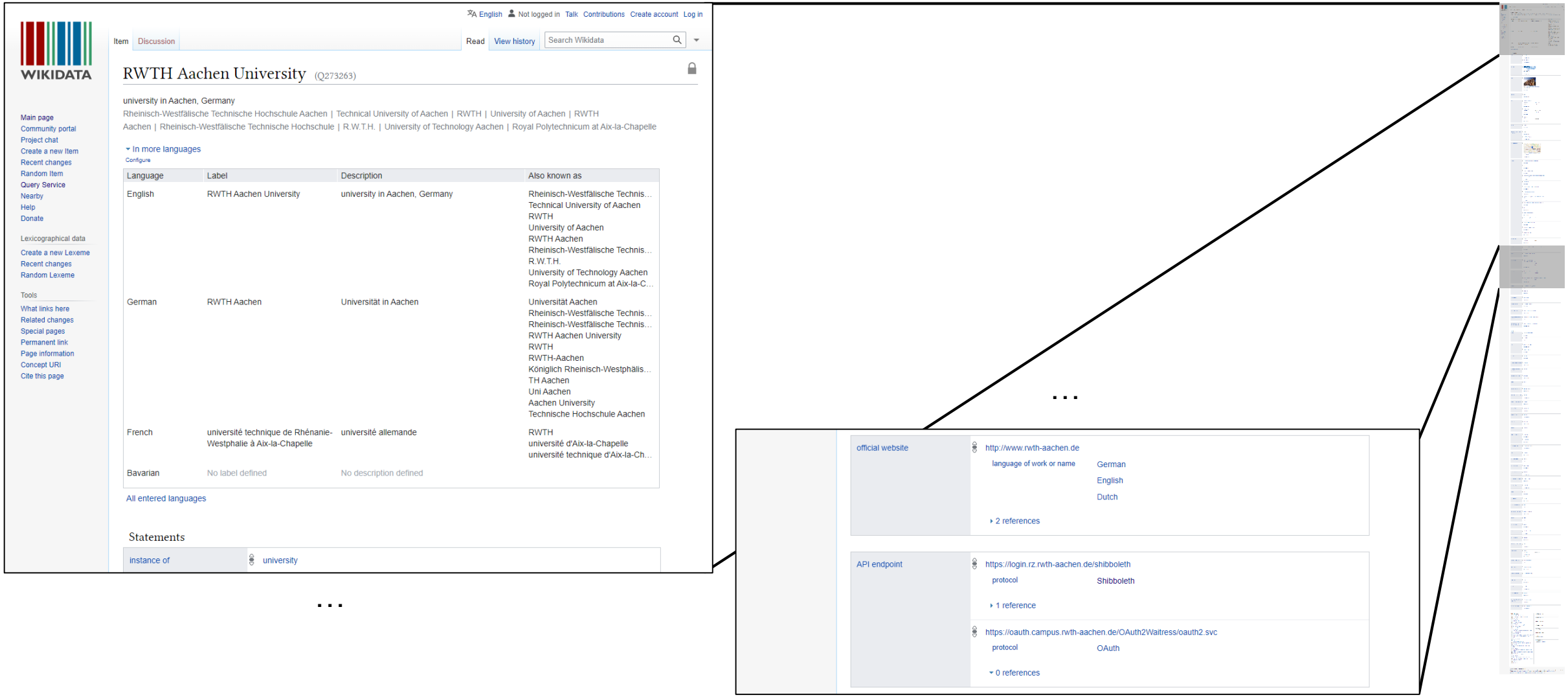
Wikidata: Semantic Information About Organizations



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Closer Look at WikiData Metadata

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wd:Q273263 wdt:P131 wd:Q1017,
    wd:Q1198 ;
wdt:P1075 wd:Q2476561 ;
wdt:P373 "RWTH Aachen University" ;
wdt:P31 wd:Q3918,
    wd:Q875538 ;
wdt:P625 "Point(6.0780555555556 50.777777777778)"^^geo:wktLiteral ;
wdt:P910 wd:Q8617495 ;
wdt:P646 "/m/01kc1q" ;
wdtn:P646 <http://g.co/kg/m/01kc1q> ;
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...

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wdt:P154 <http://commons.wikimedia.org/wiki/Special:FilePath/RWTH%20Logo%203.svg> ;
wdt:P4293 "co/031390" ;
wdt:P6366 "887968799" ;
wdtn:P6366 <http://ma-graph.org/entity/887968799> ;
wdt:P2003 "rwthaachenuniversity" ;
wdt:P6773 "301724" ;
wdt:P6782 "04xfq0f34" ;
wdt:P1155 "60016653" ;
wdt:P5785 "999983962" ;
wdt:P3608 "DE121689807" ;
wdt:P7859 "lccn-n79074273",
    "lccn-n80040320" ;
wdt:P6269 <https://login.rz.rwth-aachen.de/shibboleth>,
    <https://oauth.campus.rwth-aachen.de/OAuth2Waitress/oauth2.svc> ;
wdt:P8189 "987007266914305171" ;
wdt:P949 "000111104" ;
wdt:P2740 "RWTH-Aachen-University" ;
wdt:P4871 "10293" ;
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Bringing it Together

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  org:identifier "https://login.rz.rwth-aachen.de/shibboleth" .

<https://ror.org/04xfq0f34#ORG-42NHW> a org:OrganizationalUnit ;
  rdfs:label "IT Center" ;
  org:identifier <org-id:ORG-42NHW> ;
  org:identifier <ikz:022000> .

<https://ror.org/04xfq0f34#TrU...qp> a foaf:Person ;
  foaf:name "Marius Politze" ;
  foaf:openId <SAML:TrU...qp@rwth-aachen.de> .

[] a org:Membership ;
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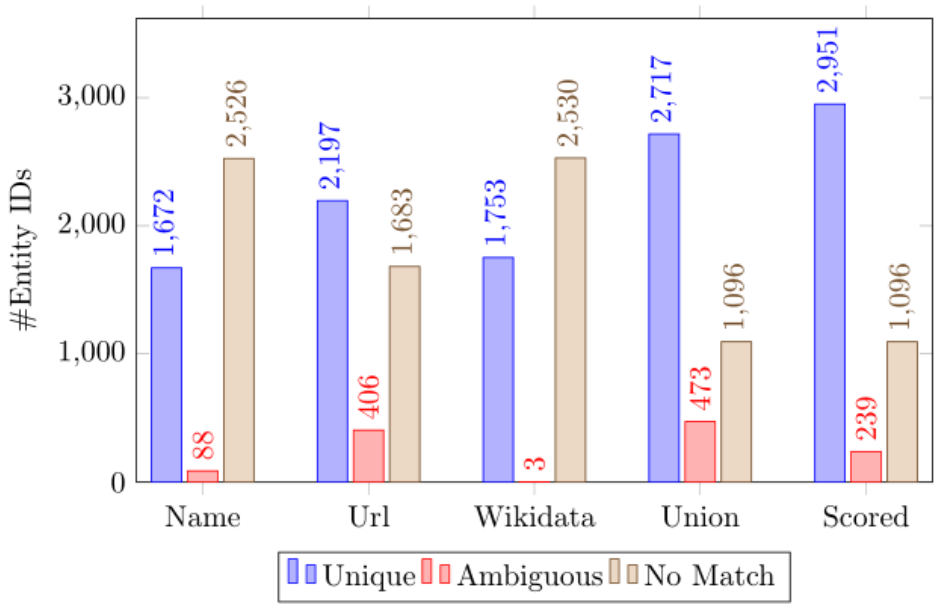

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Conclusion

- Several (not really) competing organization IDs
- Can be widely mapped to each other based on available data
- We need to bring together the practical IDs in use like eduGAIN entity IDs and curated sources like ROR
- ORG offers a standardized model and allows to model internal organizational units and memberships
- Next Goal: Build a “Open Data” Repository to curate machine-readable organization information

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Thank you for your attention

Vielen Dank für Ihre Aufmerksamkeit