



Adding AAI functionality to your Beacon implementation

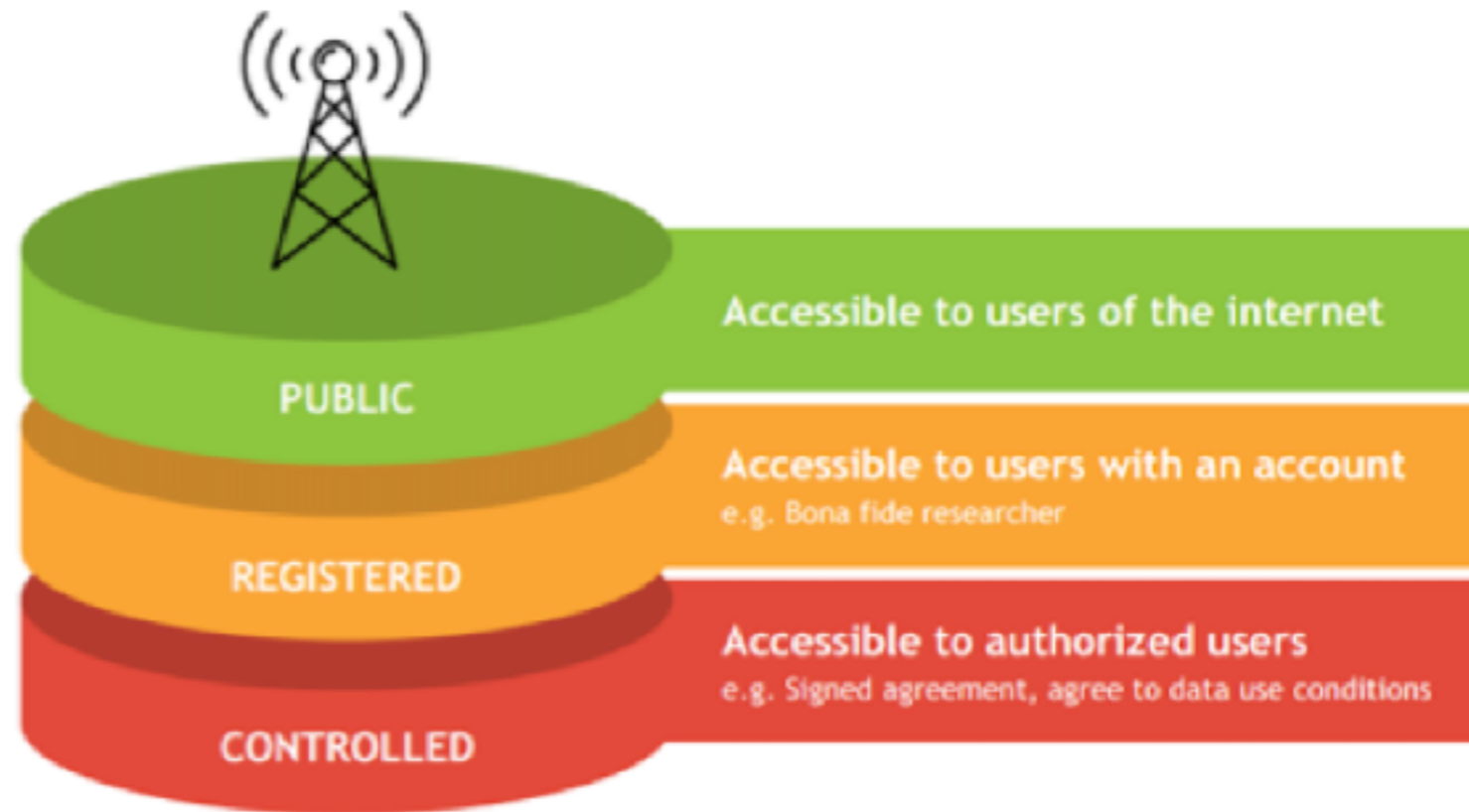
ELIXIR All Hands 2018, Beacon workshop



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www.elixir-europe.org

Three-level access tiers



Registered access with ELIXIR AAI – current status

- Support for authenticating user and consuming **bona fide status** attributes from ELIXIR AAI implemented in reference implementation
- ELIXIR AAI support for bona fide status is in production
 - <https://www.elixir-europe.org/services/compute/aai/bonafide>
- First Beacons providing registered access are in production
- Design document: <https://docs.google.com/document/d/1KHgEHESnjvB4-4Cz0CF3NkSpC8we4x5gA8-T6SdAPP4/edit#heading=h.cb5ubd7viep7>



How to obtain bona fide researcher status in ELIXIR AAI

- Three different options
 1. Your home organisation confirms you are a researcher. This requires you log in to ELIXIR using your linked account from your Home Organisation that releases your affiliation information.
 2. A person who satisfies (1) vouches for your bona fide status. That requires you fill in an application here and forward it to the person.
 3. You demonstrate you have publications in EuroPMC. This is done by matching your linked ORCID ID with EuroPMC.

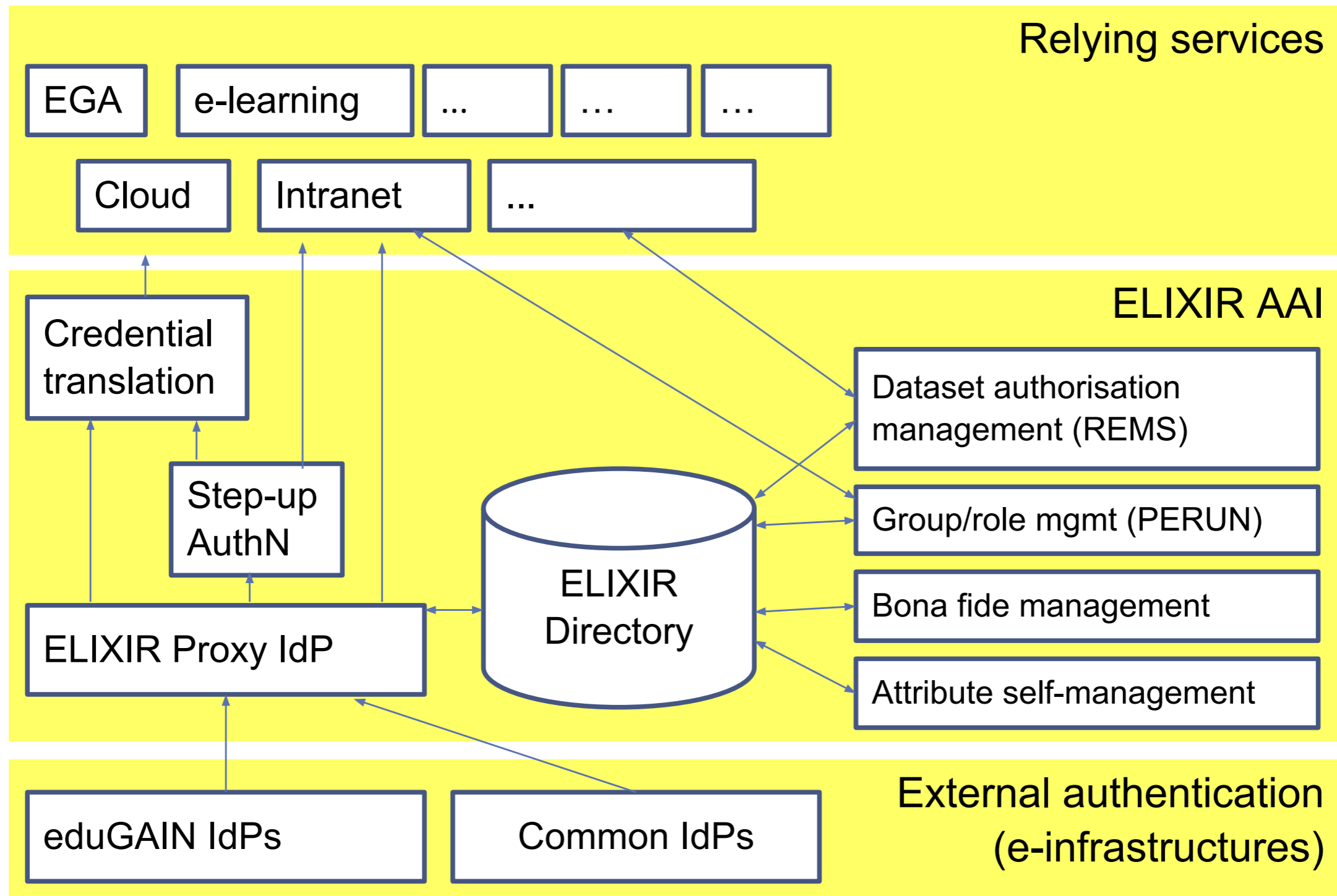


Background: ELIXIR AAI

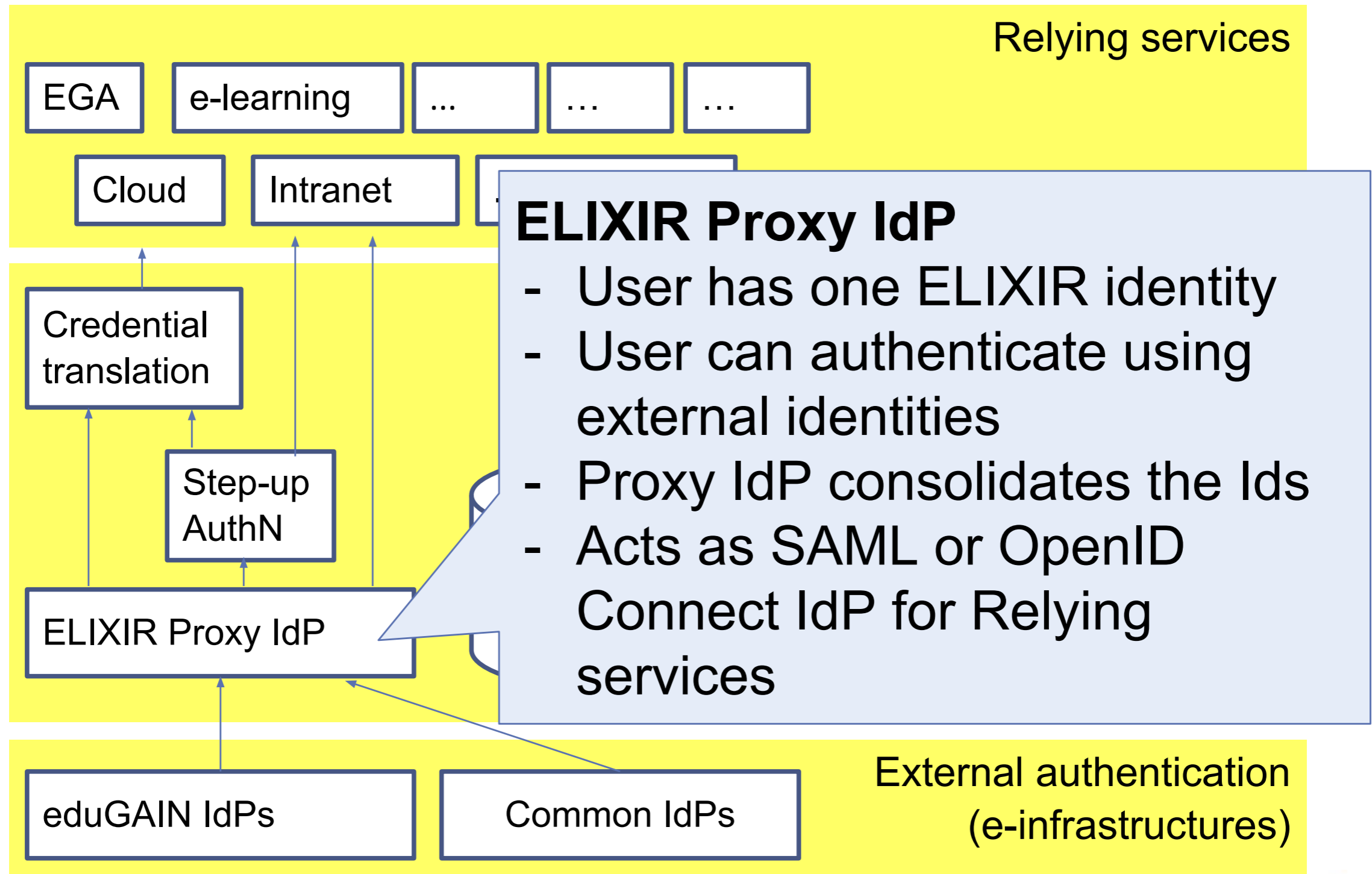
- Authorization and Authentication Infrastructure (AAI) which allows **single-sign-on** services using user's ELIXIR ID
- OAuth2/Open ID standards based solution which implies security and for example there's **no need to pass user credentials to the service**
- These standards are widely adopted and for example Google and Facebook uses them
- Future plan include for example support two-factor authentication



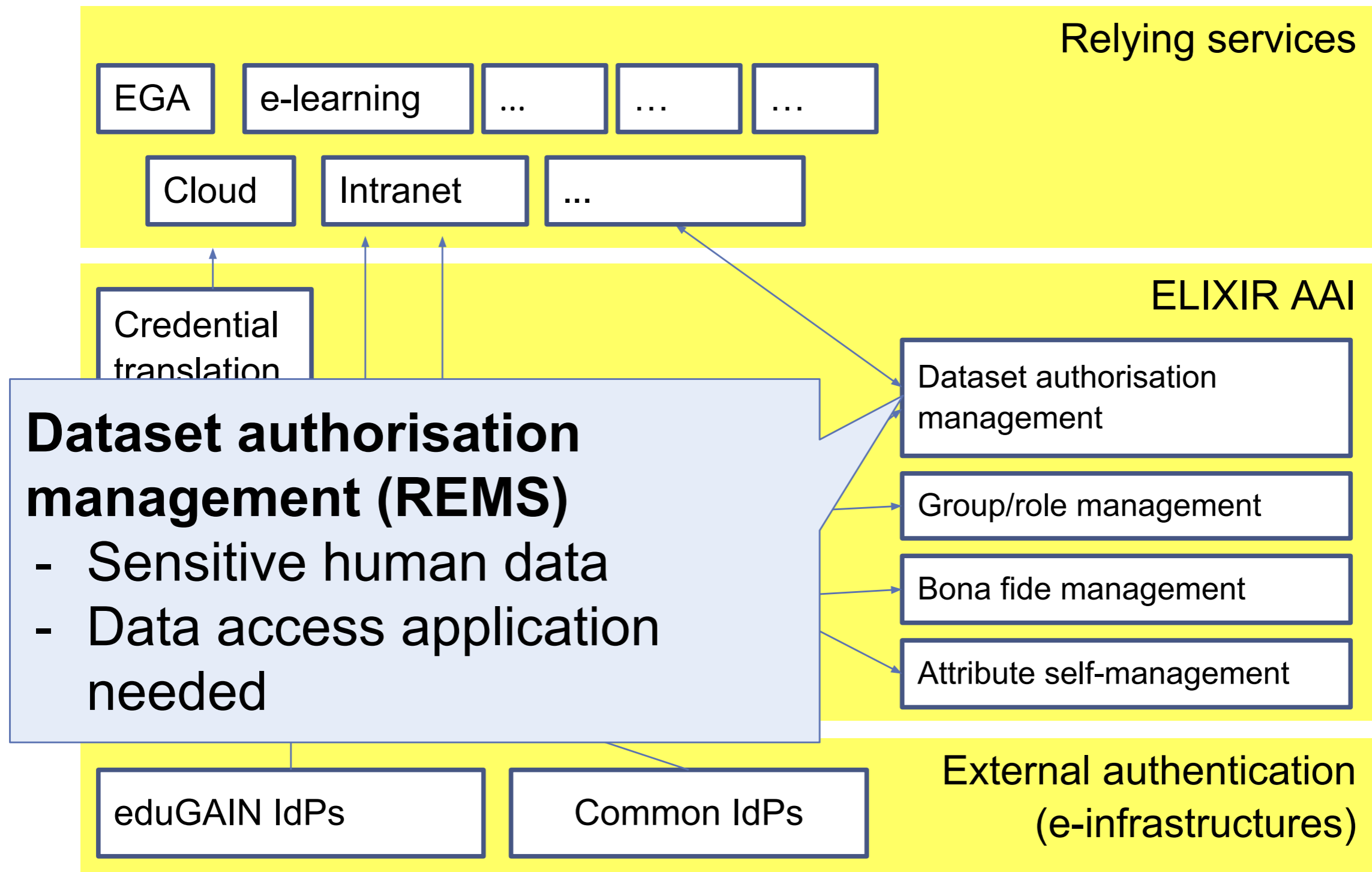
ELIXIR AAI design



ELIXIR AAI design



ELIXIR AAI design



REMS – Background

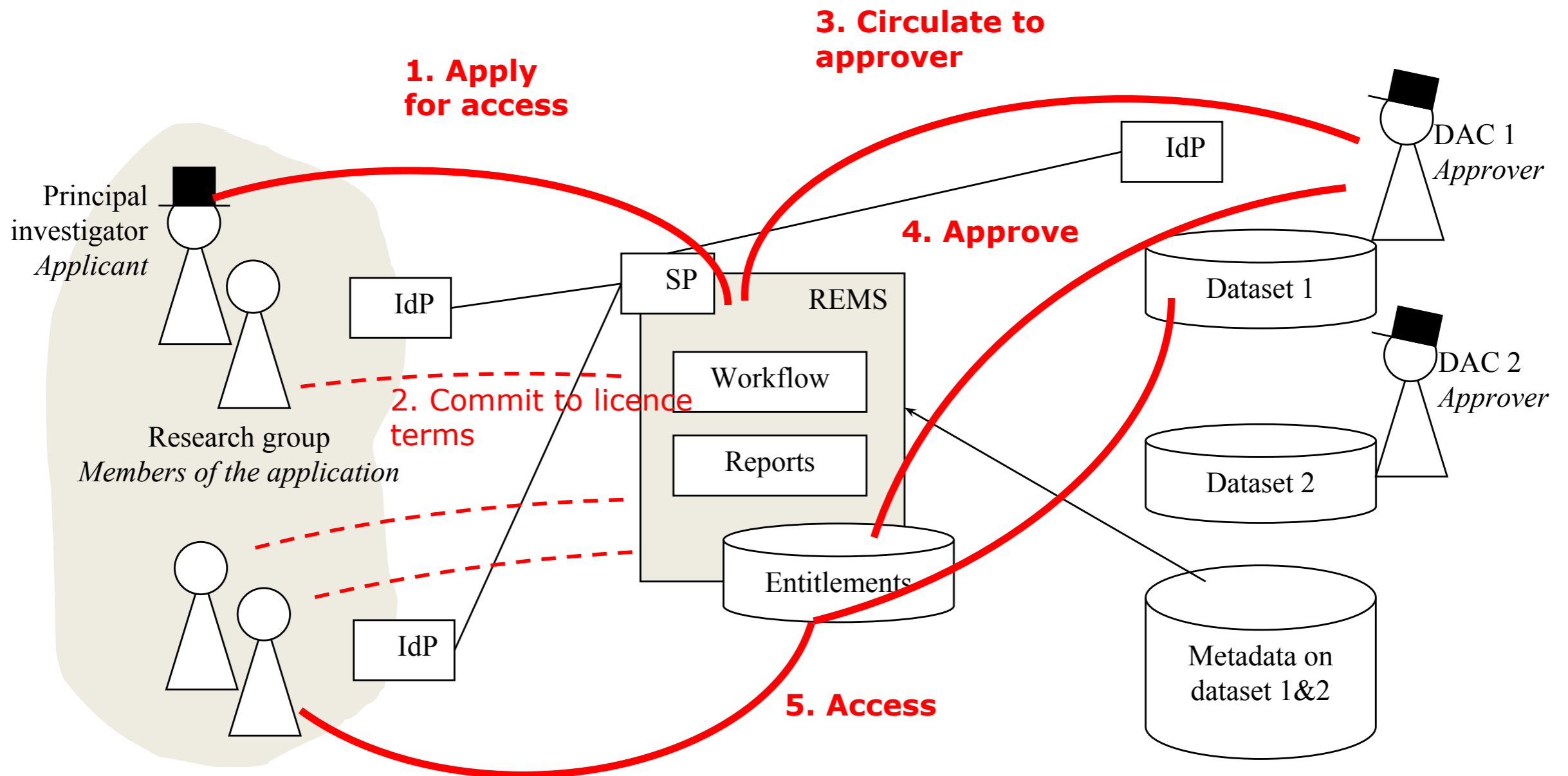
- REMS is a tool managing access rights to research data:

”Researchers applying for an access right to a dataset logs into the system by using their home organisation's credentials, fill in a data access application, and agree to the terms of use for this dataset and REMS then circulates the application to the owners of the dataset” and also

- **Also for vouching the bona fide status in ELIXIR AAI**
- REMS is developed by ELIXIR-FI (development lead by Tommi Jalkanen) and used for example by EGA / EMBL-EBI
- The implementation is open sourced and there is a test instance hosted by ELIXIR-FI
- Introduction video: <https://www.youtube.com/watch?v=mDBrrg75alo&feature=youtu.be>



The REMS concept



How this looks in practise

- <http://elixir-beacon.csc.fi>
- <https://www.elixir-europe.org/services/compute/aai/bonafide>



Adding AAI functionality to your Beacon implementation

- There is a guide “How to connect a service to the ELIXIR AAI” in ELIXIR website
- However the shortcut is:
 - Register new client to ELIXIR AAI
 - Provide proper configuration to your Beacon (reference implementation)
 - Sent an email to aai-contact@elixir-europe.org and tell that your ELIXIR AAI client would like to use bona fide status information



Controlled access

- So far the focus has been on registered access because discovering datasets is the key thing in Beacon
- However it is useful to do searches to datasets which you already have access
- An idea how to do this: Follow “Architecture for delivering dataset permissions on ELIXIR AAI” model





Thank you!

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