EUDAT B2ACCESS

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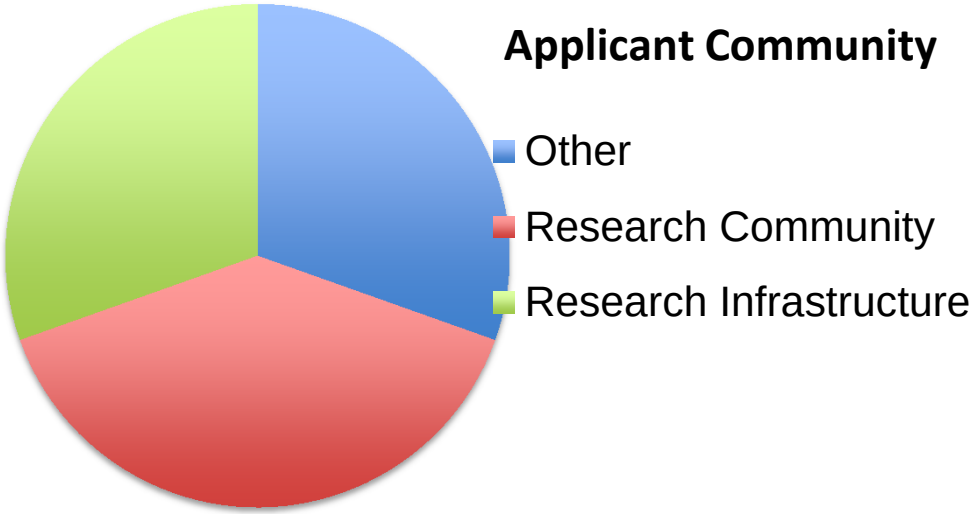
EUDAT *in nuce*

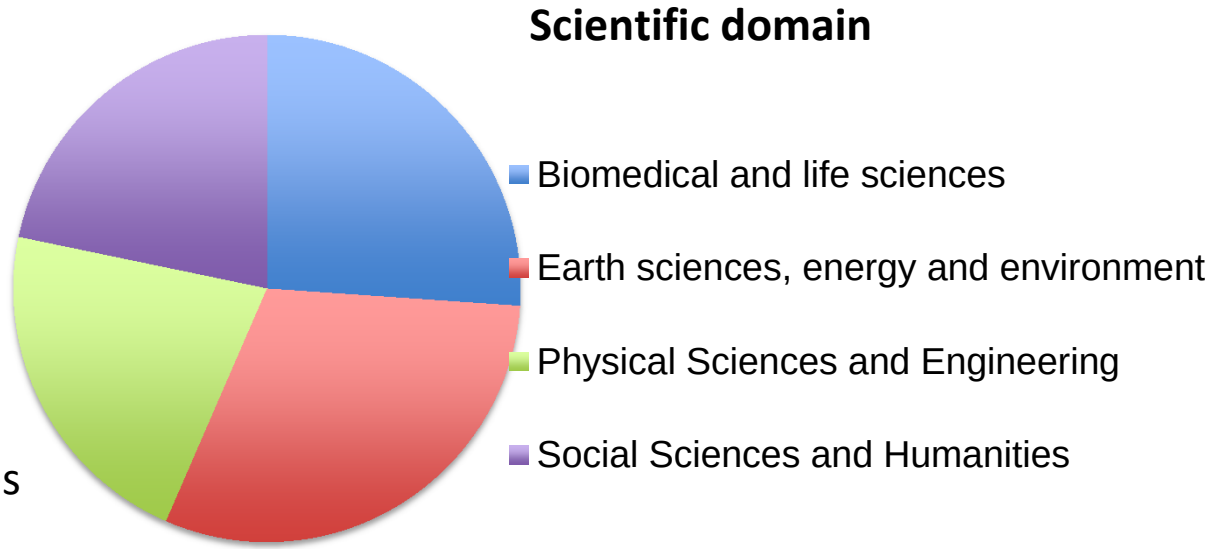
- Multidisciplinary data e-Infrastructure supporting a wide range of research communities & projects

- B2SAFE – data storage and replication
- B2DROP – user file storage
- B2FIND – metadata/search
- B2SHARE – upload and share data
- B2STAGE – move data into and out of other einfra
- B2GETHER – collaborators
- B2ACCESS – account mgmt and SSO

- Data pilots ~ 25 activities

Data pilots overview





Example projects

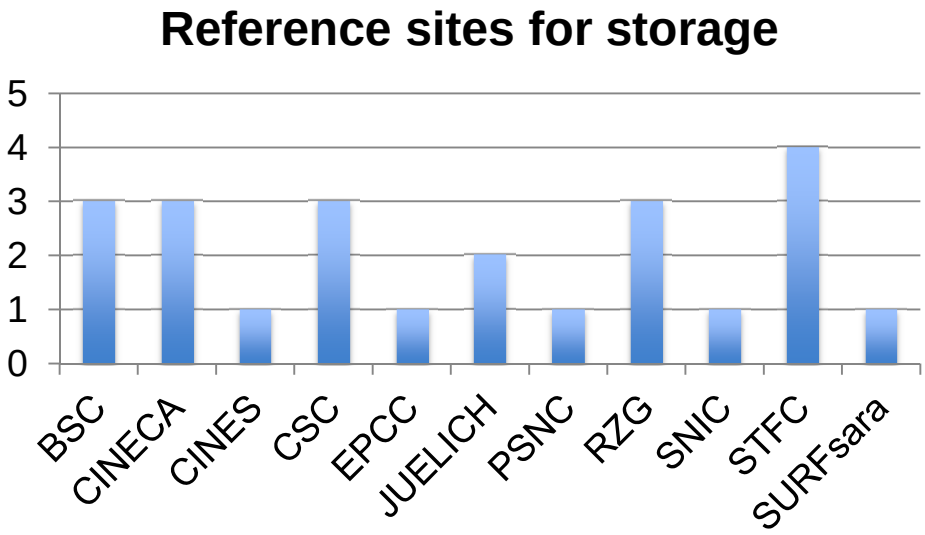
WestLife

Preservation of herbarium species

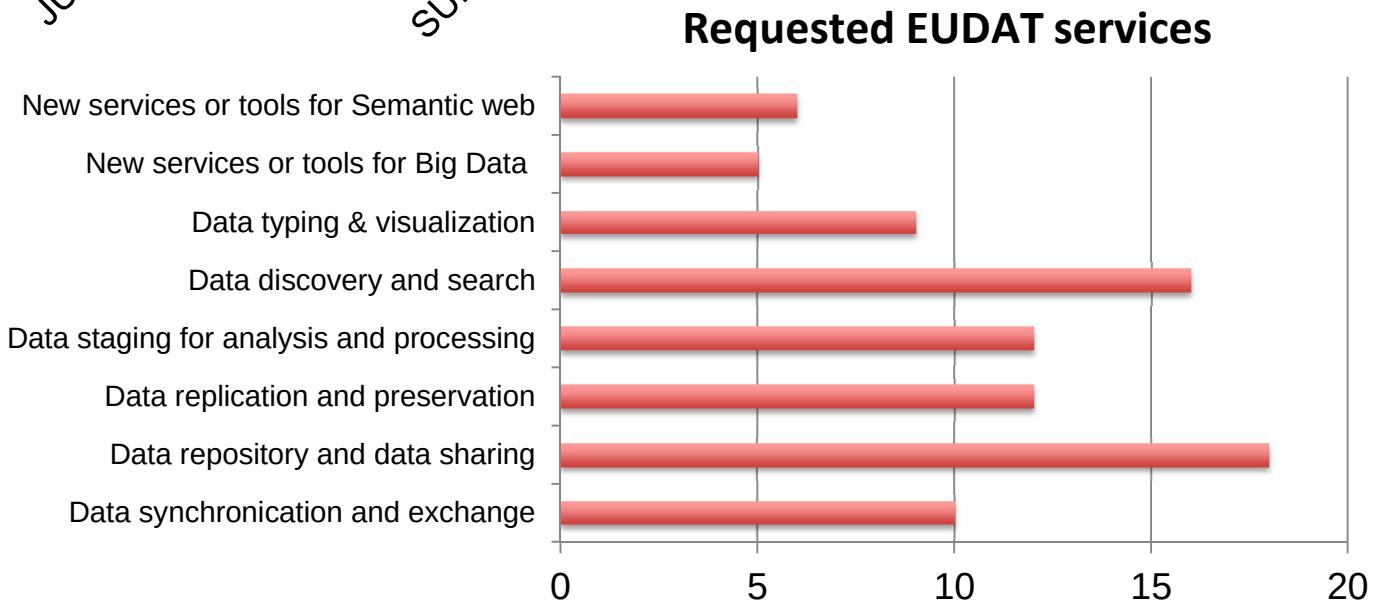
Clinical trials

Cervical cancer & type 2 diabetes

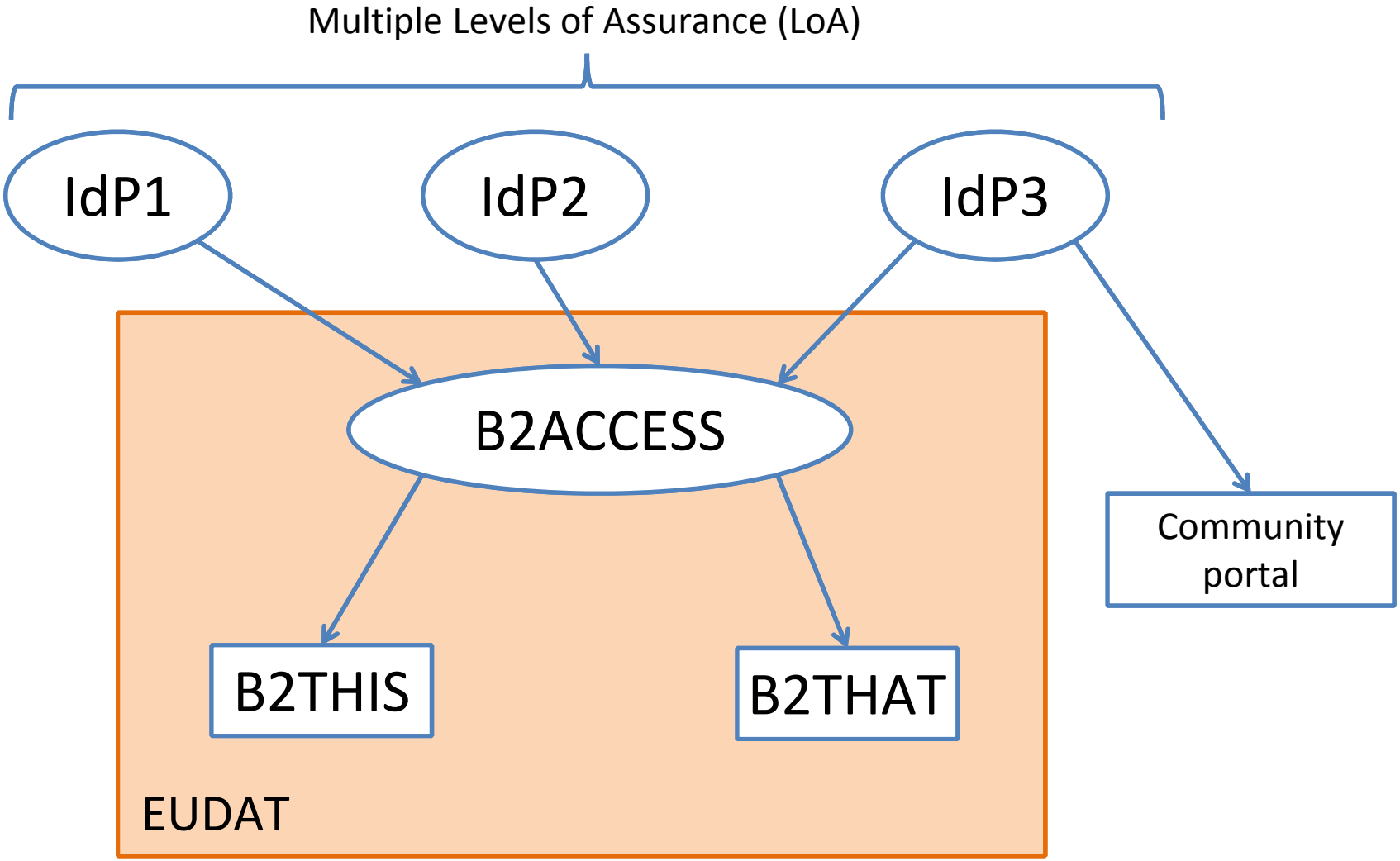
Data pilots overview



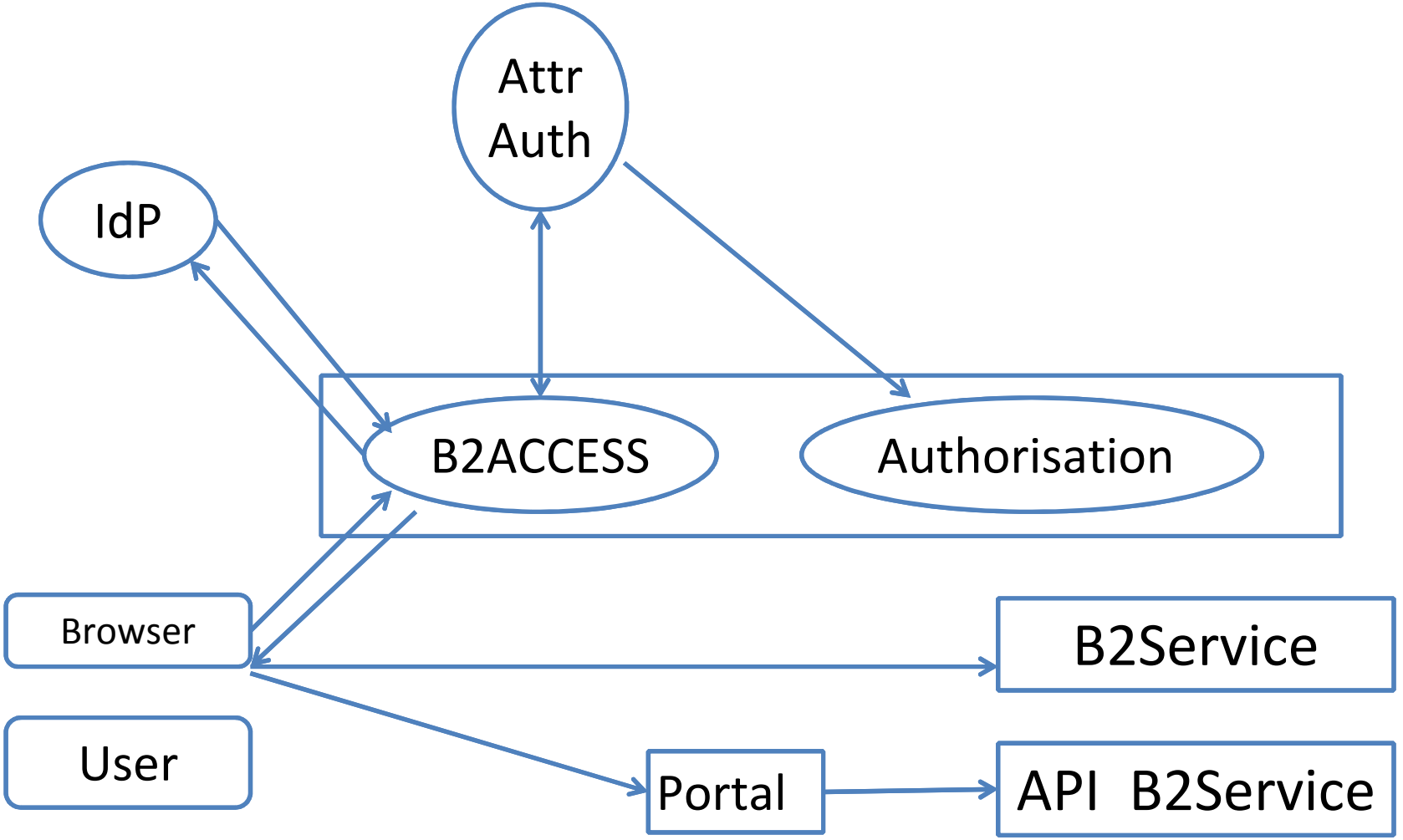
Total storage request 1220-4300 TB



B2ACCESS Overview



B2ACCESS Workflow



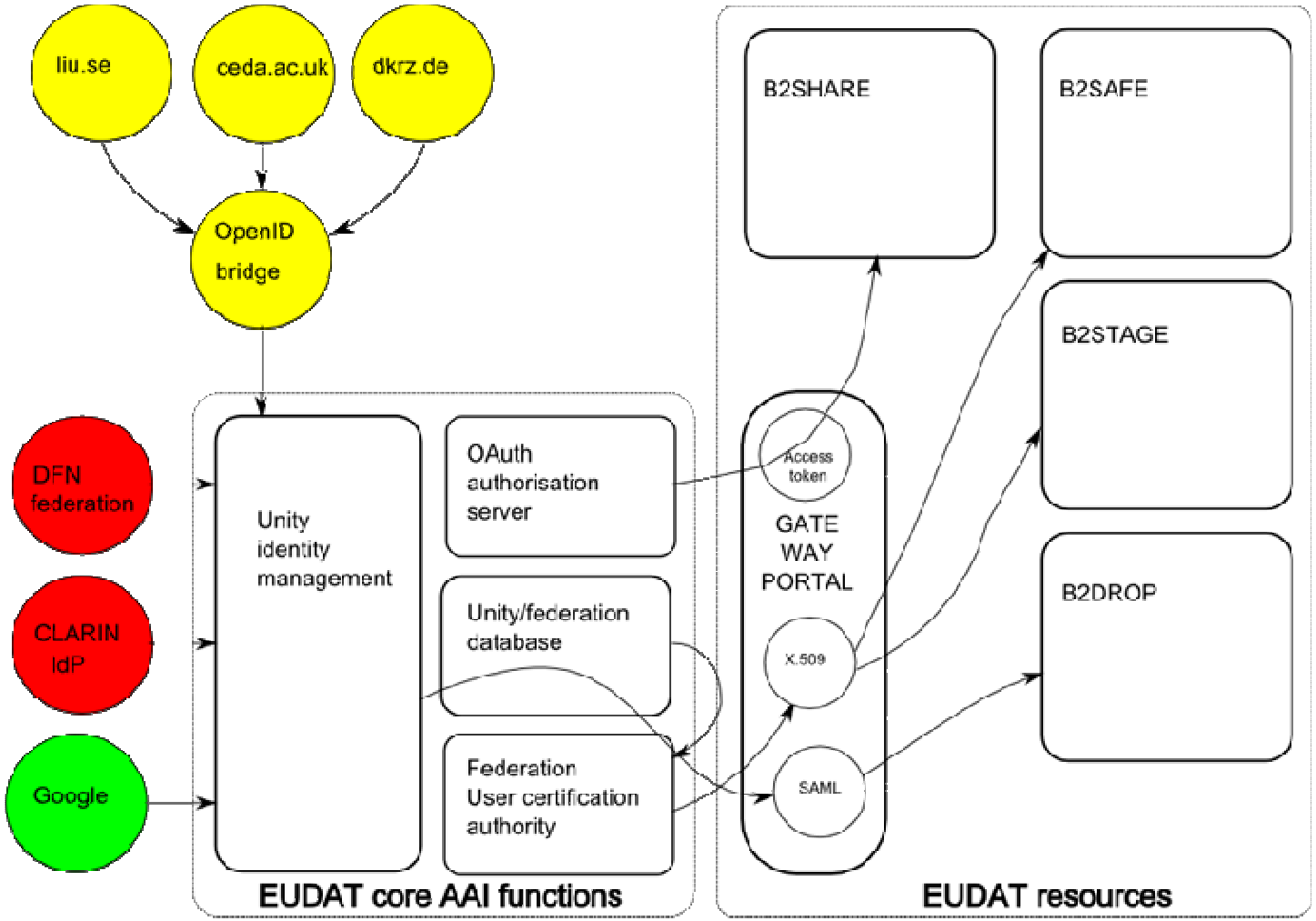
User Slide

- Log in with any of these:
  - Community identities
    - CLARIN, climate,
    - Recently added Instruct (structural biology)
  - Social media and related
    - Google, Facebook, Microsoft Live, GitHub
    - ORCID
  - National Identity Federations
    - = Universities, Academic Research Orgs
    - … via eduGAIN

Technology Slide

- Internally translates to, er, internal credential
- Supporting diverse services
  - OAuth2 / OIDC
  - X.509 (EUDAT's user CA)
  - SAML (WebSSO profile)
- Each carries attributes
  - Attributes are *harmonised*
  - Compensating for external IdPs publishing differently
  - Communicate the LoA to the service

B2ACCESS Architecture Slide



Strategy Slide

- Can B2ACCESS ids be consumed by services not in EUDAT?
  - Yes… (maybe)
  - Policy: eduGAIN compliance (release of attrs.)
  - Or of course you could be an EUDAT community
  - … easy! ☺
- Different models for community portal integration
  - If you have one…
- Future work on multi-LoA sources of information
  - E.g. attribute providers

The (Honest) Evaluation

- If someone offers you username/password
  - Kick them out!
  - Obsolete, insecure, unmanageable
- Future authentication
  - Support federated identity management
  - Multi-LoA authentication
  - Include support for community and social ids
- Future authorisation
- B2ACCESS is not perfect (yet)
  - But every project/einfra is working on similar technology
  - Because it is the future
  - And all einfrastructures should interoperate

Demo

- If there is time…
  - If not, try it yourself
  - You can self register with any (accepted) id
- Preproduction / staging
  - https://eudat-aai.fz-juelich.de:8443/
- Production
  - https://b2access.eudat.eu/
- Support
  - helpdesk@eudat.eu
- Contact
  - jens.jensen@stfc.ac.uk