UmbrellaID: a community AAI in the EOSC era

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PaN - Photon and Neutron RI environment

Setting the scene before the journey

- PaN community: gathers the scientific analytical facilities such as Synchrotrons, Lasers, Free Electron Lasers and Neutron sources and their user communities

- Large user community (50 000 users) with heterogenous profiles:
  - Scientific field: Biology, Material science, chemistry … Archaeology, nuclear physic, HEP
  - Academic and Industrial users
  - Quite often limited IT support in the users' home organisation

- Yearly data prod from 300TB to 10s of PB per RI, with datasets volumes from 10s of GB to 100s of TB

- Data are openly accessible after a 3 years embargo period

- Relatively small RIs' IT teams, mainly focused on data production (i.e. experiments, computing, FAIR data production and preservation) and scientific support (services for scientists and user support).

- 2 EOSC flagship community projects: PaNOSC and ExPaNDS

AAI - UmbrellaID

UmbrellaID is the AAI of the PaN community since 2012

- Provide a common Authentication and Authorisation Infrastructure that allows users of all PaN facilities to connect seamlessly to digital facility services with a **single, common and persistent unique ID**

- Authorisations remain fully under control of each facility providing the service

- Users are in full control of their personal data

- Technically: 1 logical IdP (infra: 2 IdPs with HA), metadata registry

- Protocols: SAML, Moonshot for non web access
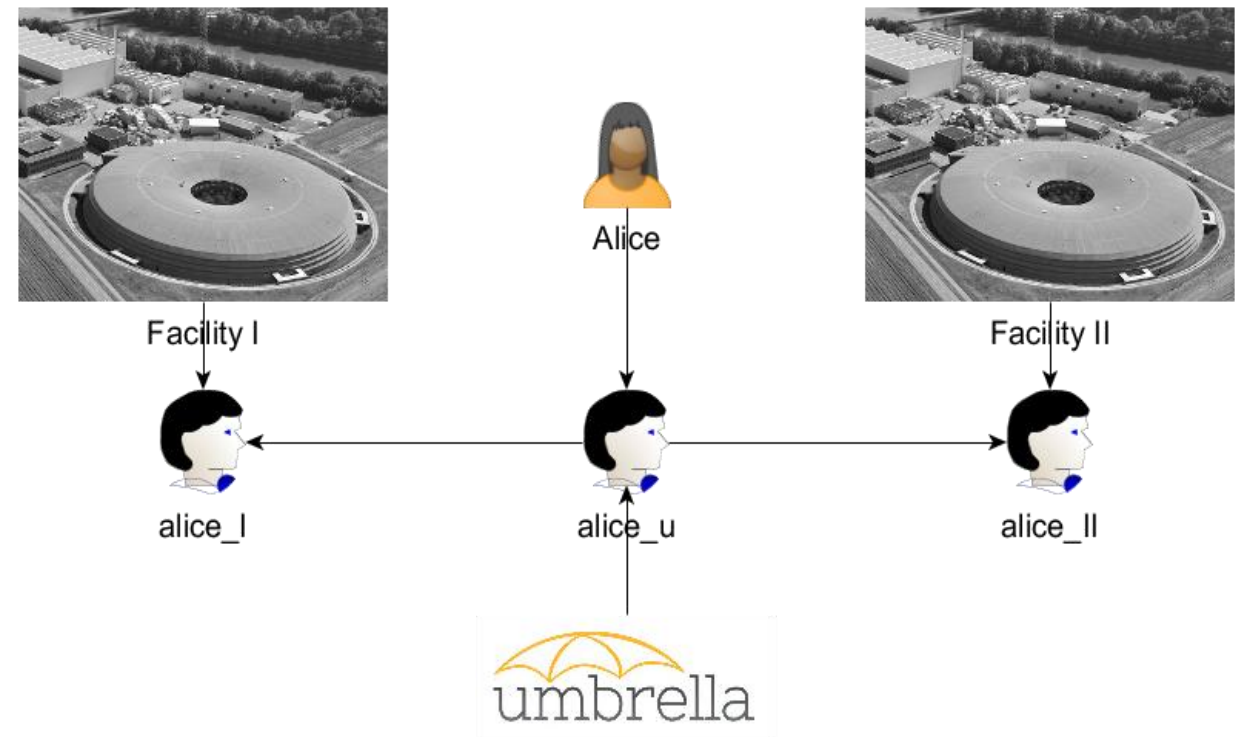
2018: AAI a changing landscape

- Strong common will to join the effort for building EOSC

- What EOSC means in terms of AAI?

- Technology evolution (OIDC …)

- New regulations (GDPR, …), liability of the AAI?

- Security concerns raising up, are we sufficiently staff to offer a professional service?

    "UMBRELLA cannot be held liable for the security of data transmitted on the internet. All liability for indirect damage or damage caused by auxiliary persons of UMBRELLA is excluded." Is this still sufficient?

- …

- And we still have our specific needs (Persistent ID, AuthZ, Moonshot, …)

Need to strengthen our collaboration with key domain actors

Looking for collaboration

July 2019

Autumn 2019

Spring 2020

umbrella

umbrellaID: Confidentiality for a lifetime

Specifications

Initial contact with GÉANT

Validation by the UmbrellaID mgmt. team.

Set up of the dedicated eduTEAMS platform

Validation

Production ready

New services introduced

Summer 2020

Autumn 2020

Spring 2021

Migration of all SP to the new infrastructure

Additional metadata

New IdPs: Orcid, eduGain

Migration of all users
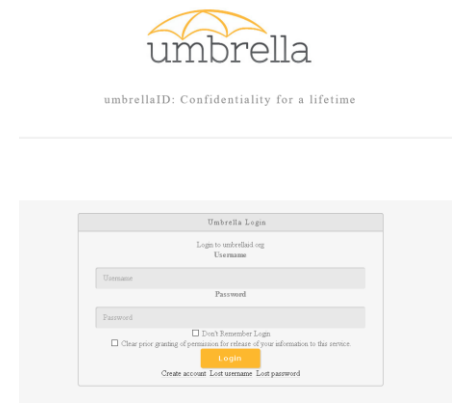
Decommisioning UmbrellaID IdPs

GÉANT

panosc

Where do we stand, 2 years later ?

- This collaboration has been extremely fruitful for the community
  - Ability for the community to face the new challenges
  - Feeling of being understood with our community specificities
  - Alignment with the latest AAI developments
  - Easy access to expertise
  - Integrate our services with EOSC seamlessly

- Contribute to the EOSC construction not only by providing our FAIR data and user services but also by feeding the EOSC AAI specialists with very practical use cases

AARC/EOC model: cross community interoperability ?
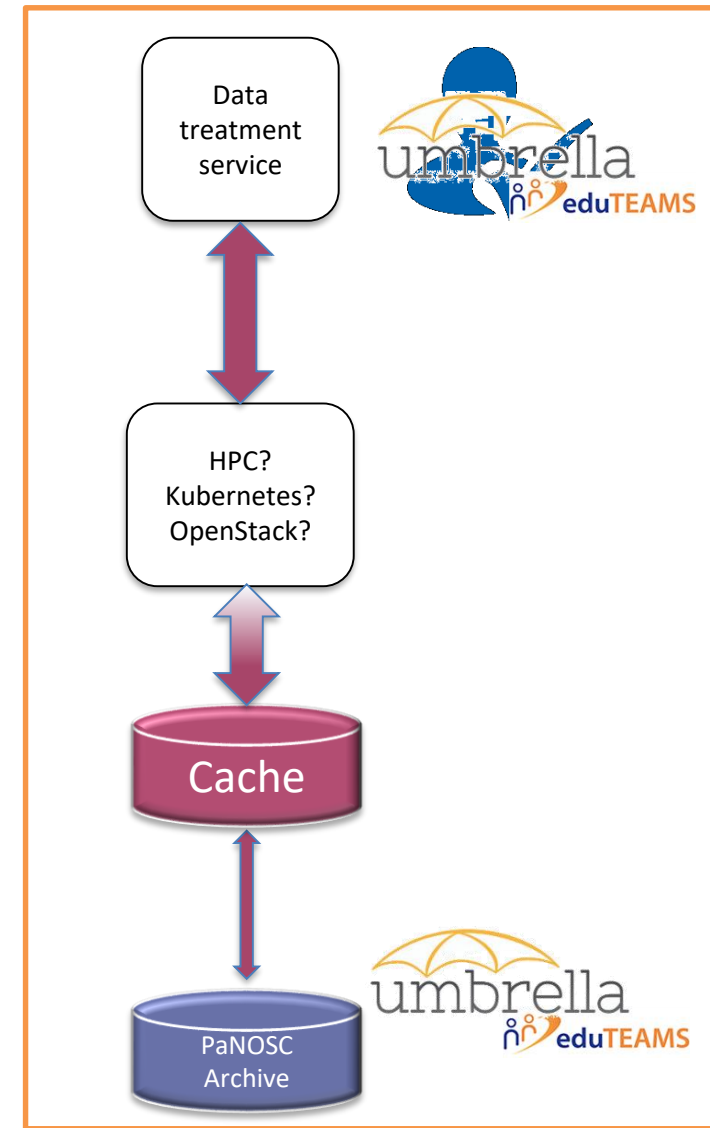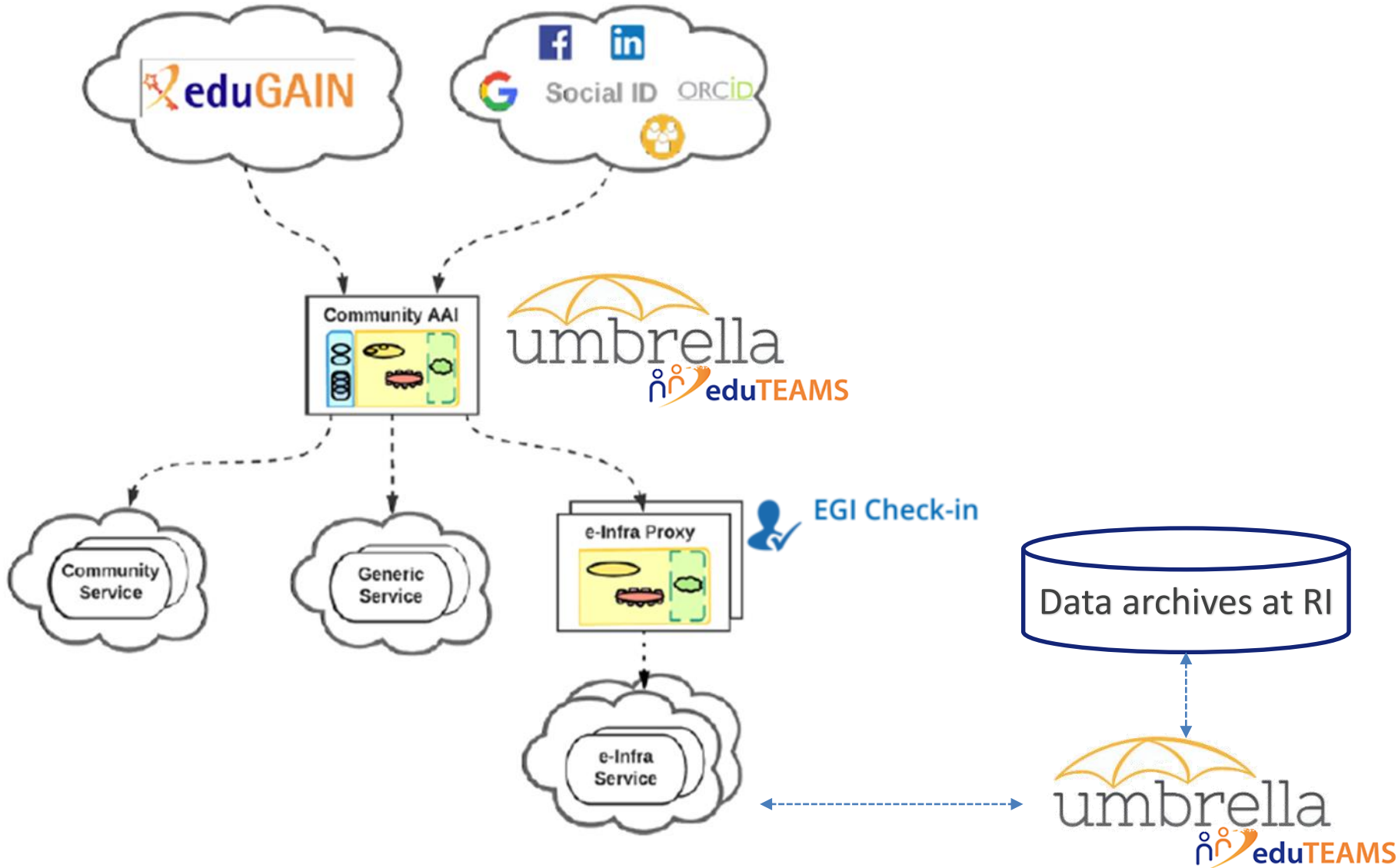
Thank you all for your support

EOSC is really changing the landscape

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