Enabling collaborative access to data and resources
Federated Identity and Access Management (FIAM)

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1 Challenge: how to provide access to each other's shared resources in a safe and scalable way?

In cross-institutional collaborations, a suitable and scalable infrastructure for authentication and authorisation to shared resources is needed. We have piloted an approach based on federated identities and **COmanage** to centralize group and key management and to handle access to web and non-web resources.

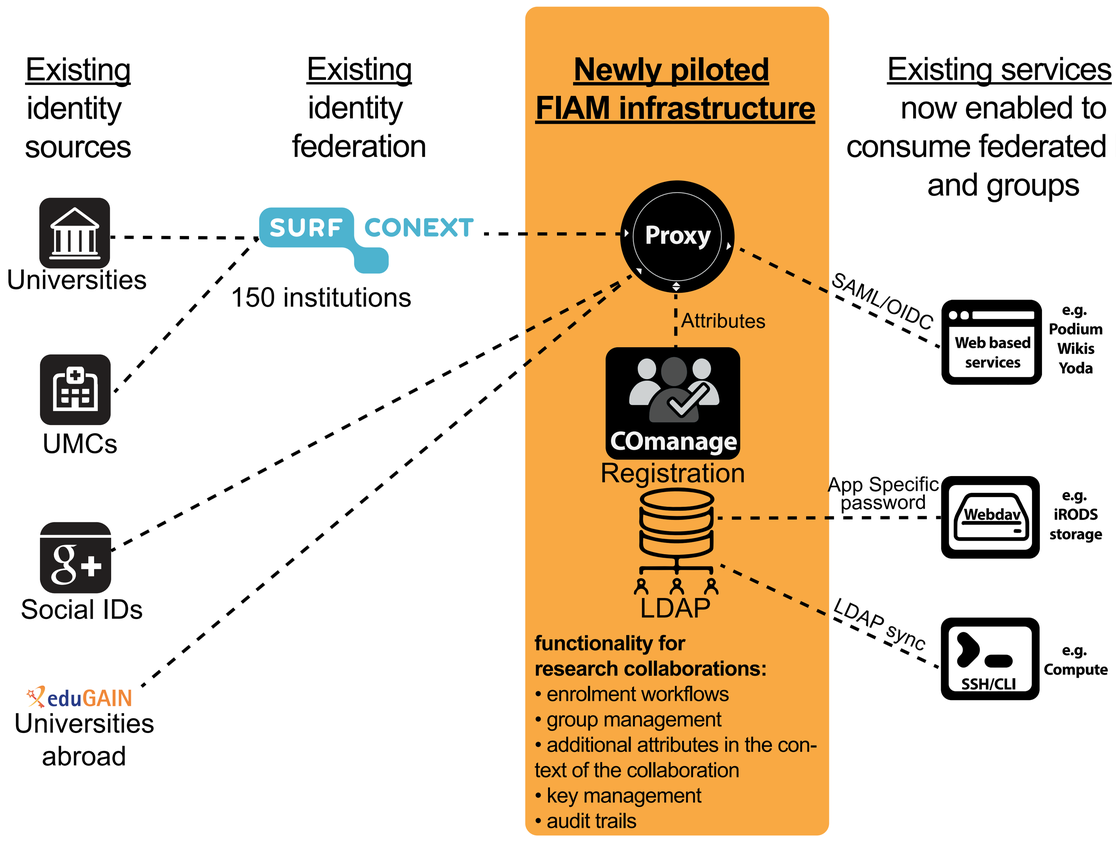
2 Three distinct roles in access management scenarios

A **researcher:** wants to participate in project X and wants to become a user on shared project X resources

A **resource owner:** restricts access to protected project X resources and delegates access management to the principal investigator

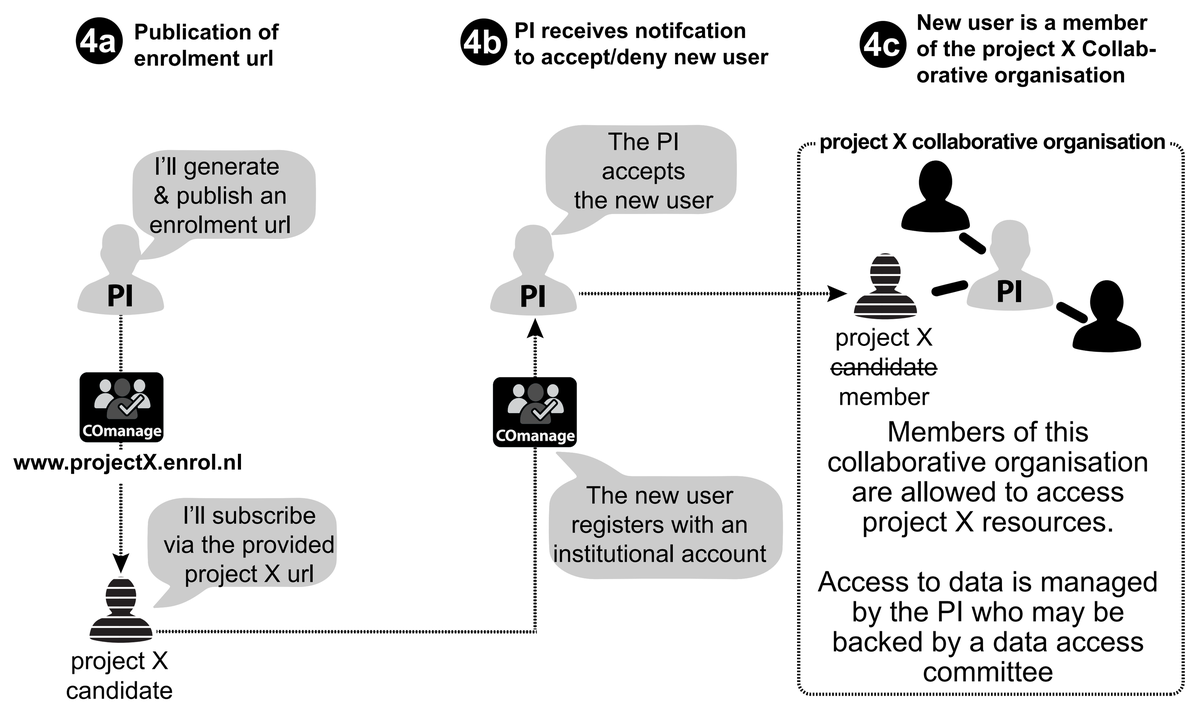
A **principal investigator:** manages the collaboration, accepts or invites users, manages groups, potentially delegates tasks to designated officers or committees

3 Available identity sources, e-infrastructure and new solutions to manage access to services

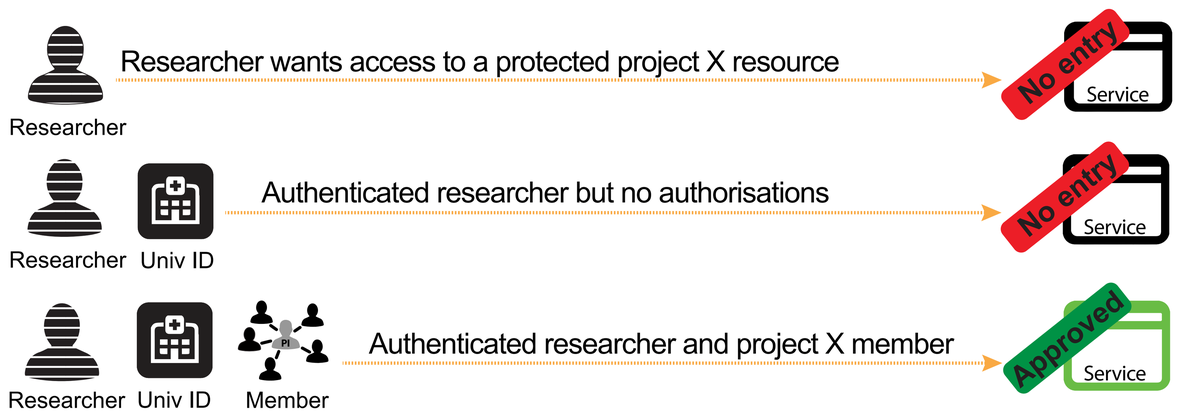


4 Workflow: PI authorises enrolment of new members and manages collaboration groups

The piloted solution provides single sign on and enables federated access to web and non-web resources of project X. In addition, additional user and group attributes, in the context of the collaboration, can be registered.



5 Recap: verified identity + enrolment in group membership = access



6 Conclusions

With this approach, researchers can sign in to federated services using their own trusted institutional account. Resource owners can open up their resources to members of the collaboration, including users of remote institutions, with the knowledge that the identities of external users have been checked. PIs dont need to chase resource owners for manual account creation.

More info:

Acknowledgements: