

# State of OCM

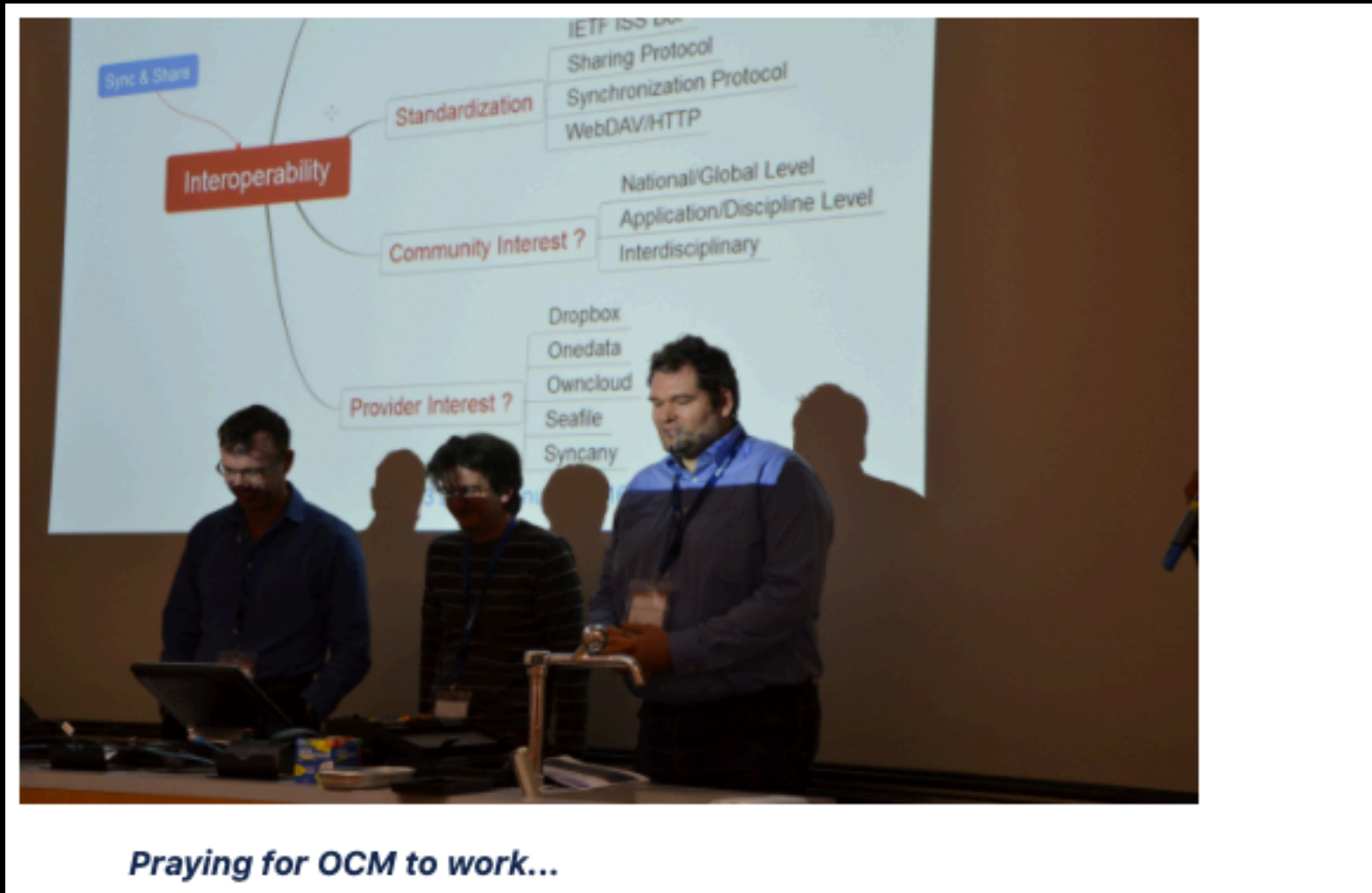
What is going on?

Hugo Labrador (CERN)

# Why OCM?

- **Extend** native sync and share functionalities beyond local borders
- In a **vendor neutral** way
- In an **open collaboration spirit**






Praying for OCM to work...



2018

 [cs3org / OCM-API](https://github.com/cs3org/OCM-API)

OpenCloudMesh API

☆ 21 stars    🍴 4 forks

2016

First beta version

2017

2020

v1.0.0



OPENCLOUDMESH

2015

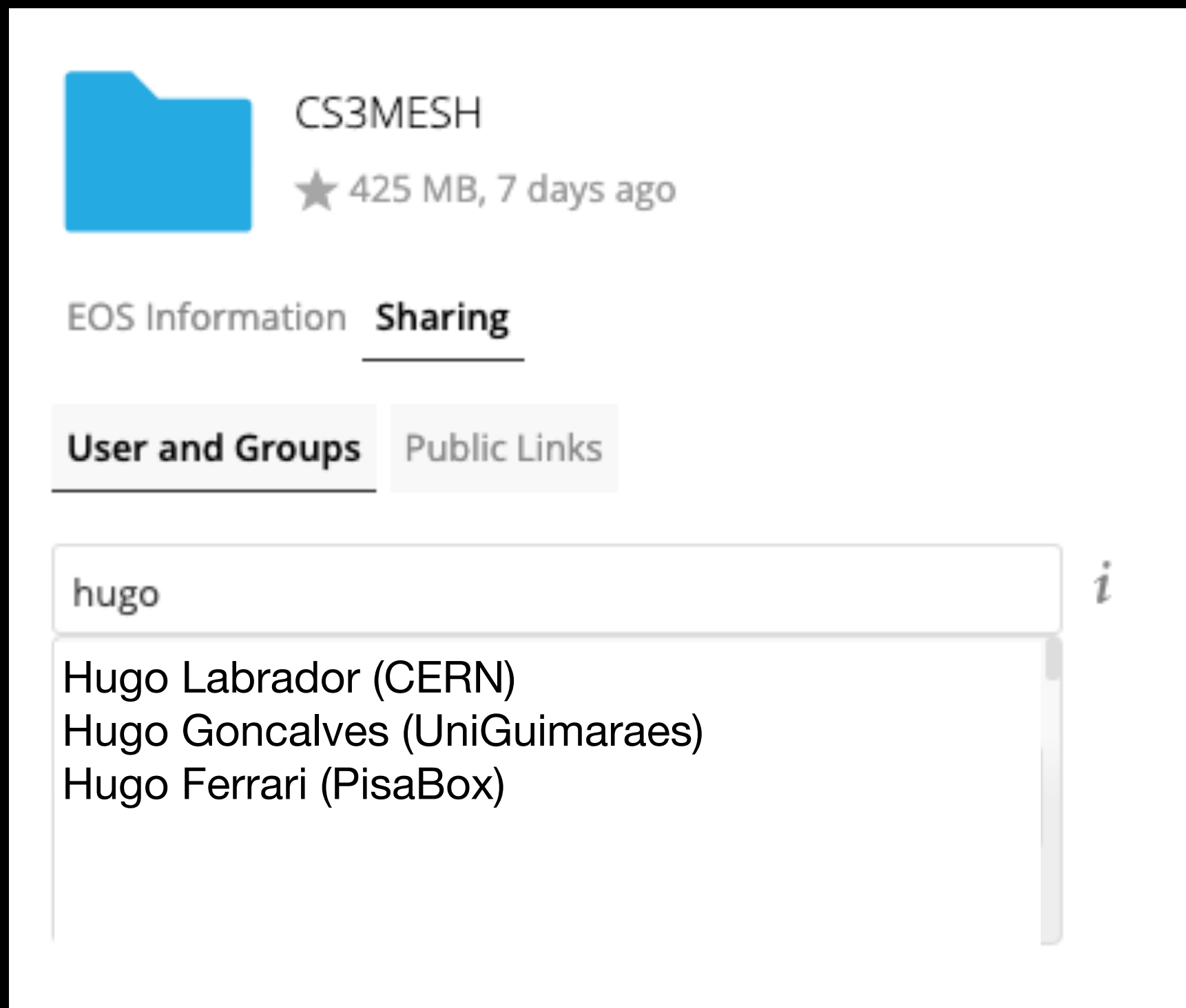
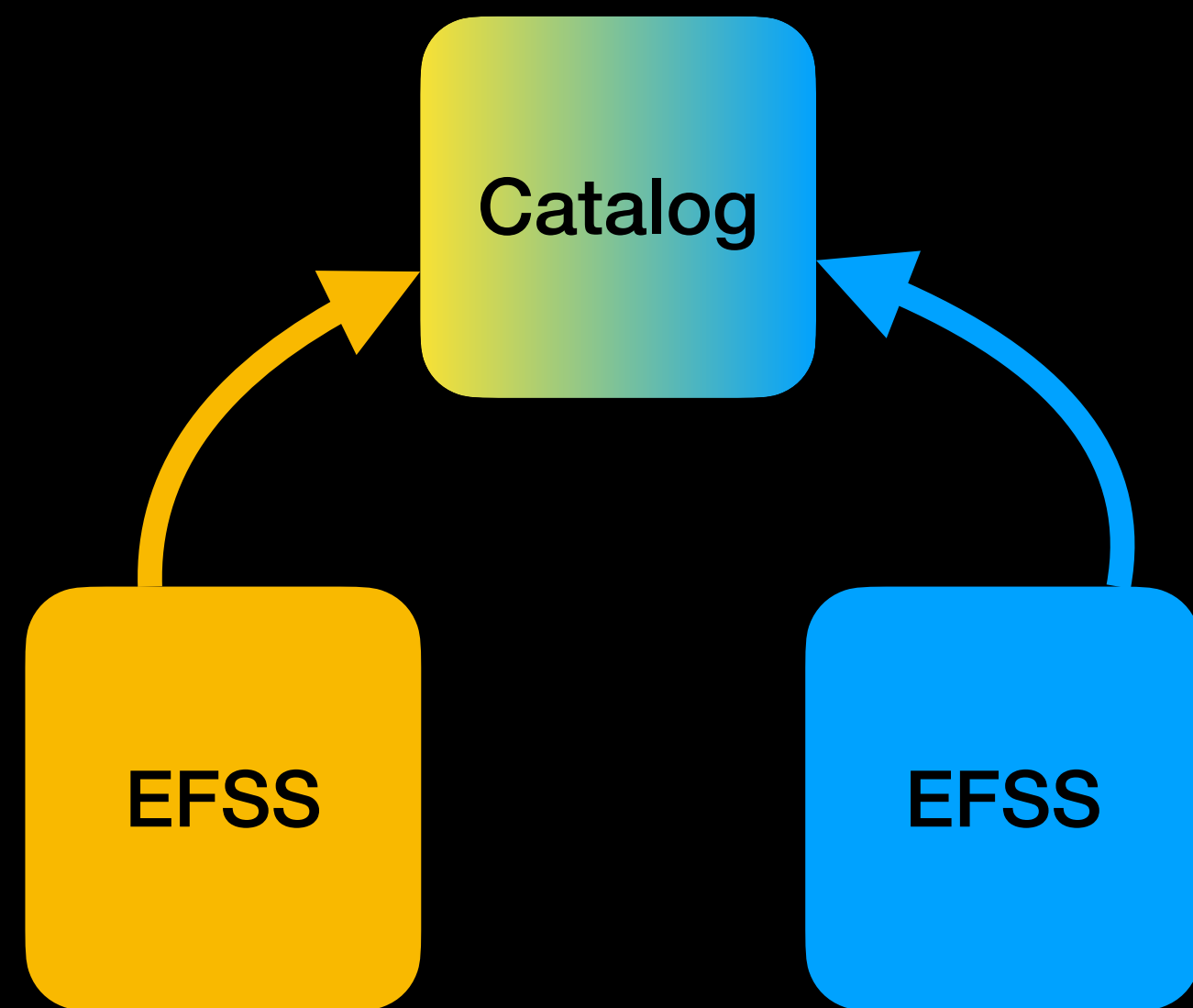
Birth

Testing framework  
Governance  
User discovery

Testing framework  
Governance  
User discovery

# User Discovery

with a centralised user catalog



User Experience



Privacy

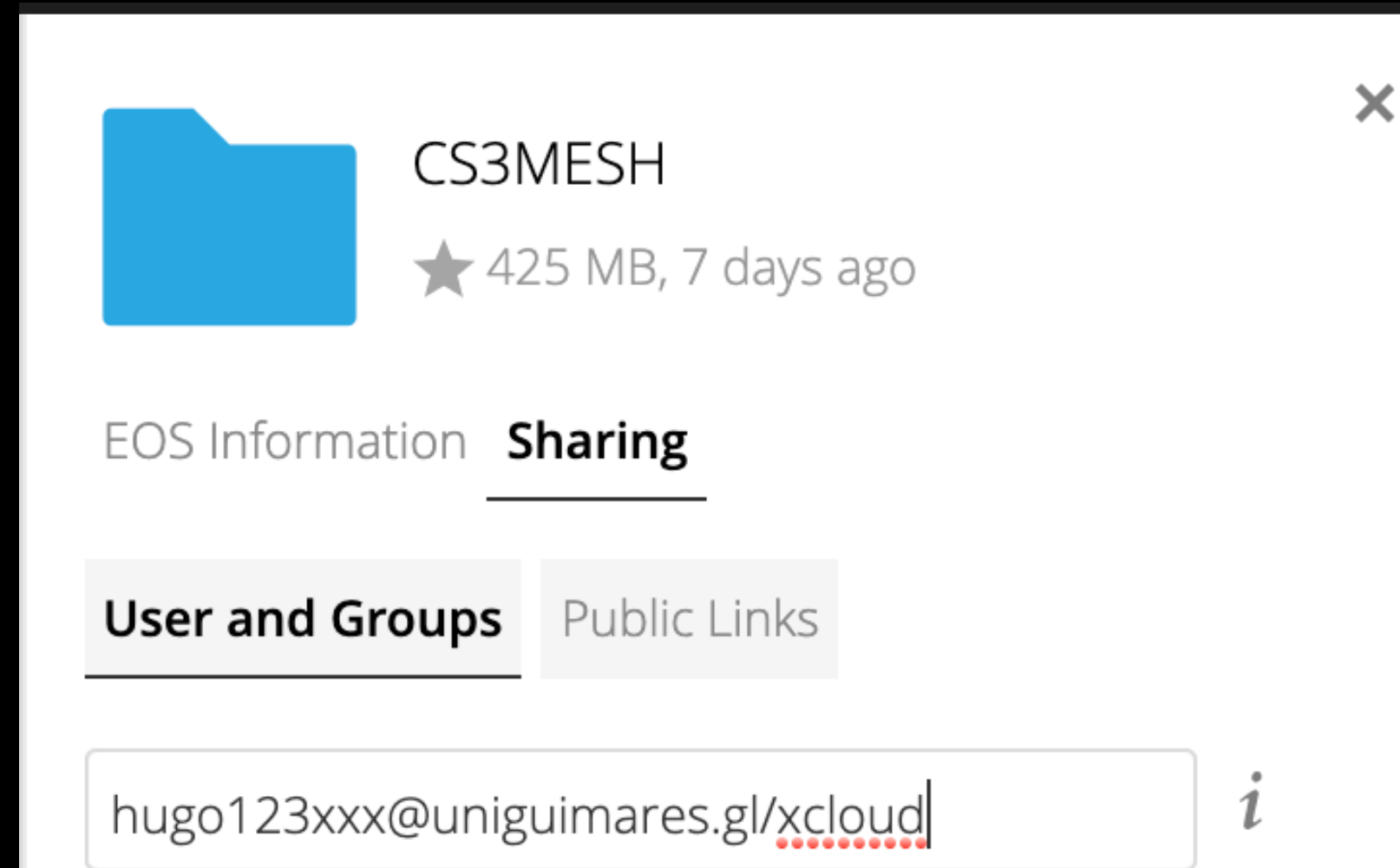
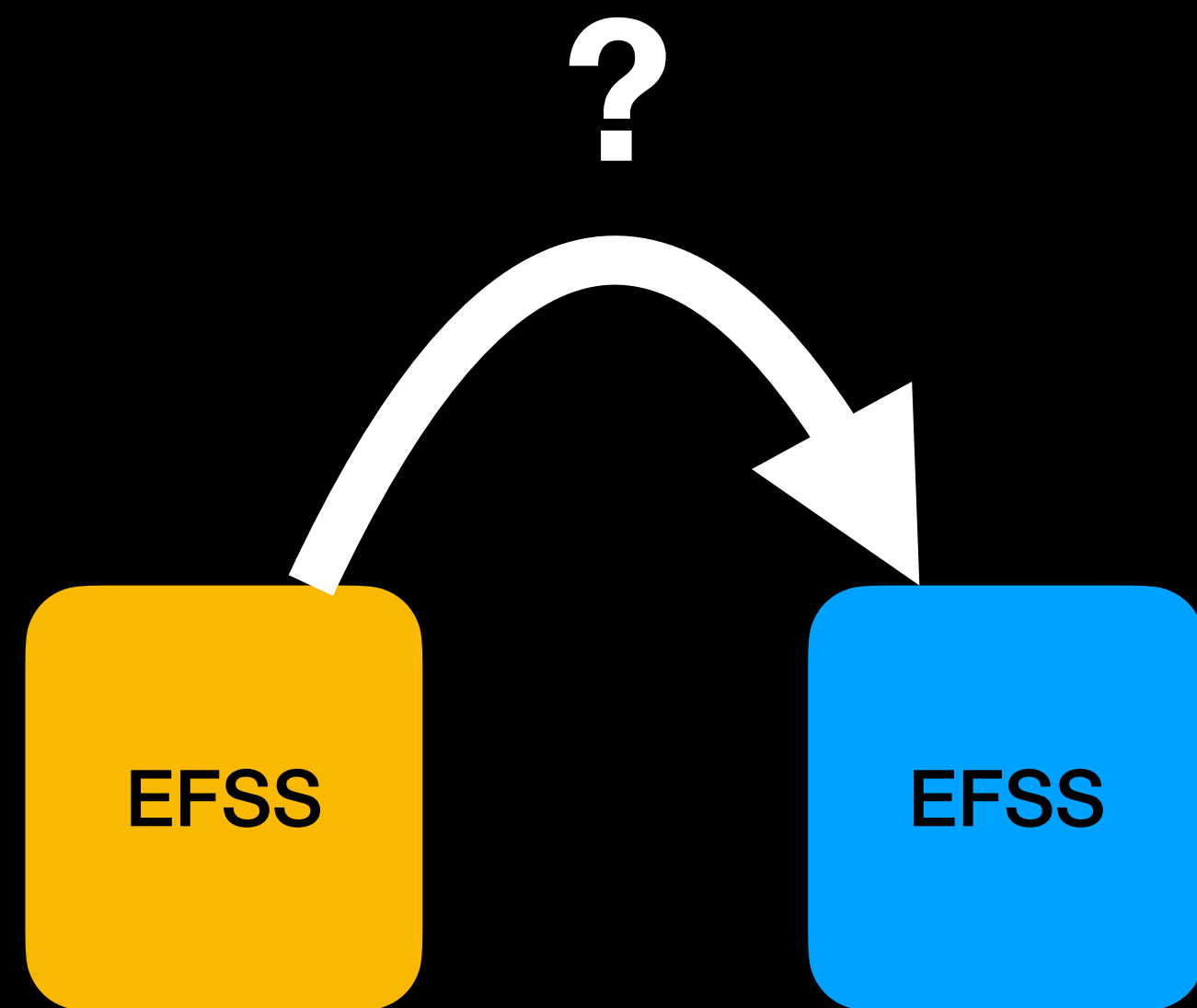


Scalability

# User Discovery with federated global IDs

How do I know the internal unique user ID at the remote site?

How do I know the remote site hostname?



User Experience



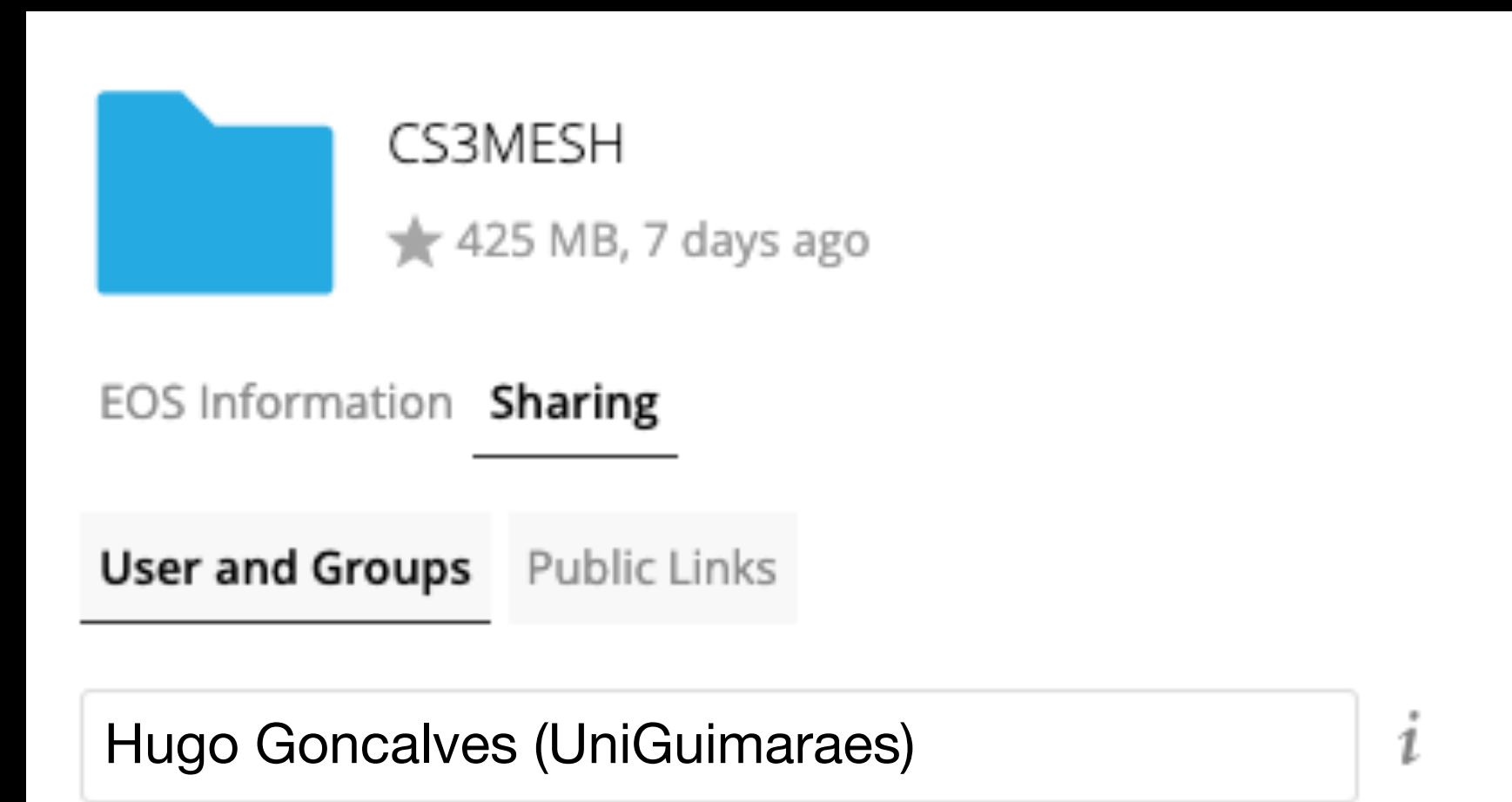
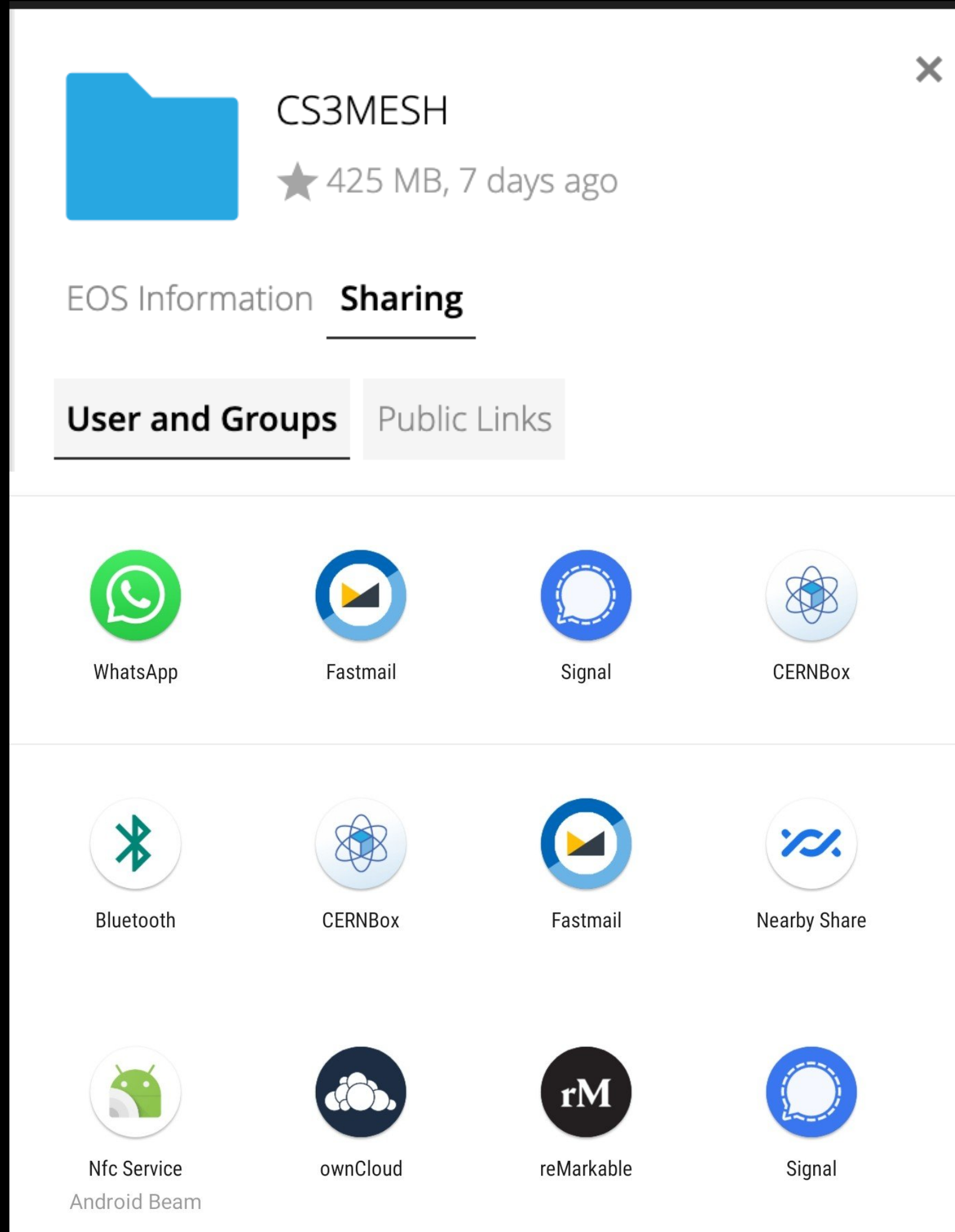
Privacy



Scalability

# User Discovery

## with Invitation Workflow



User Experience



Privacy

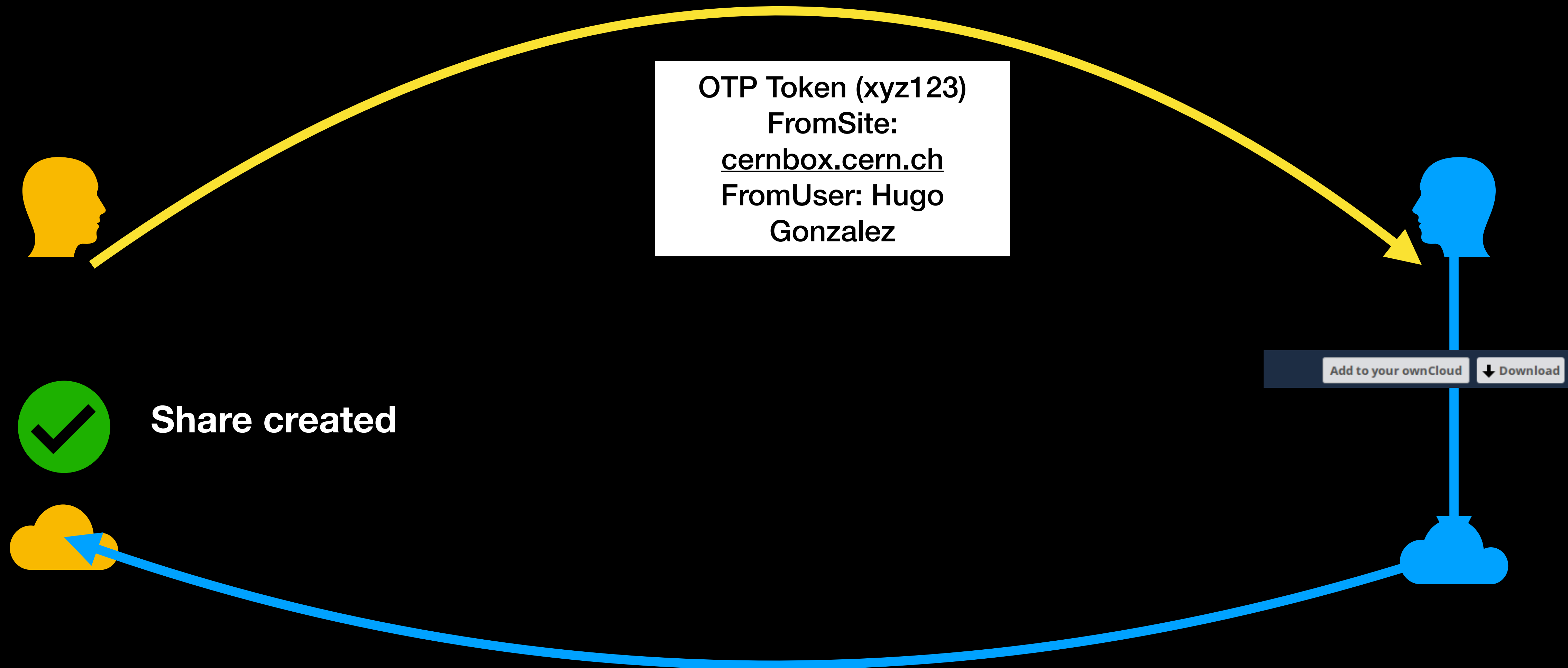


Scalability



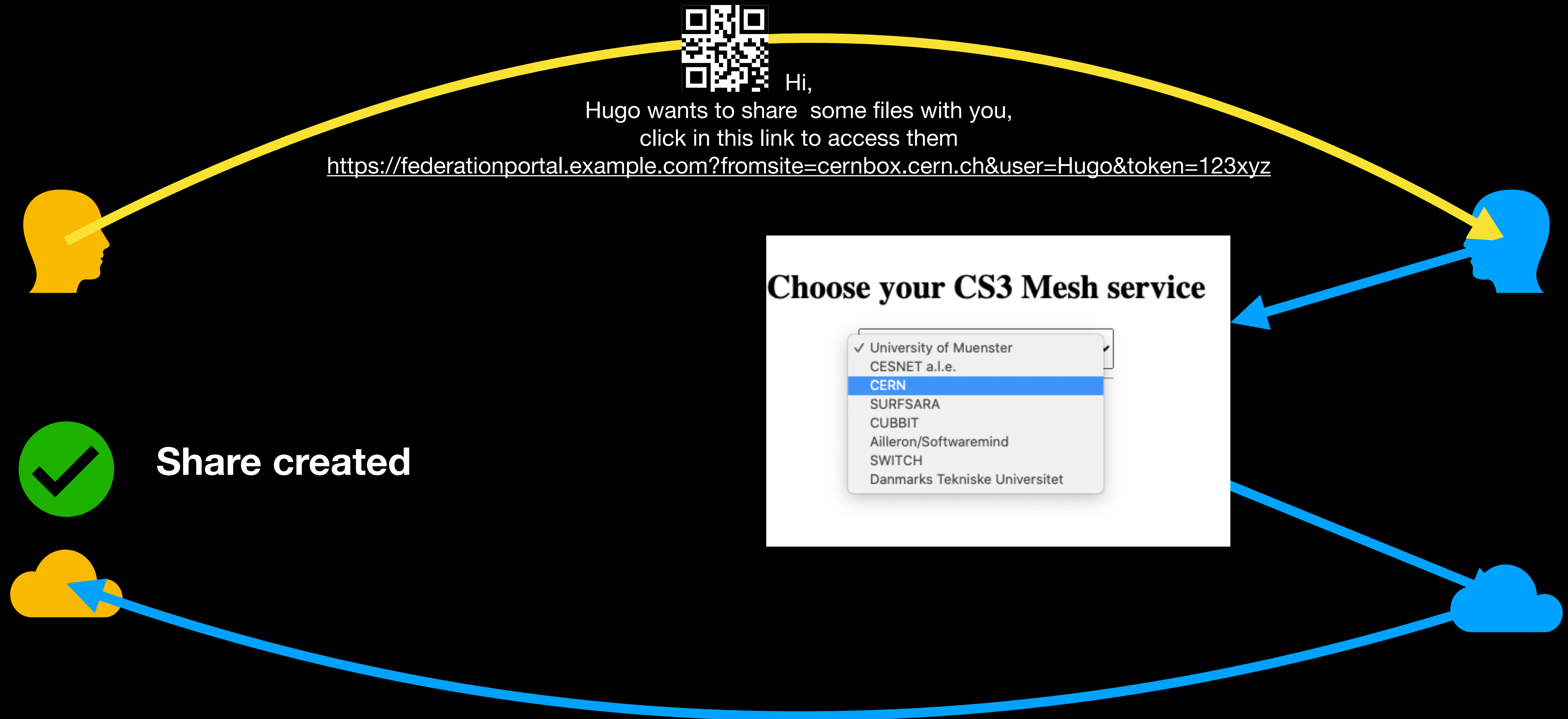
# User Discovery

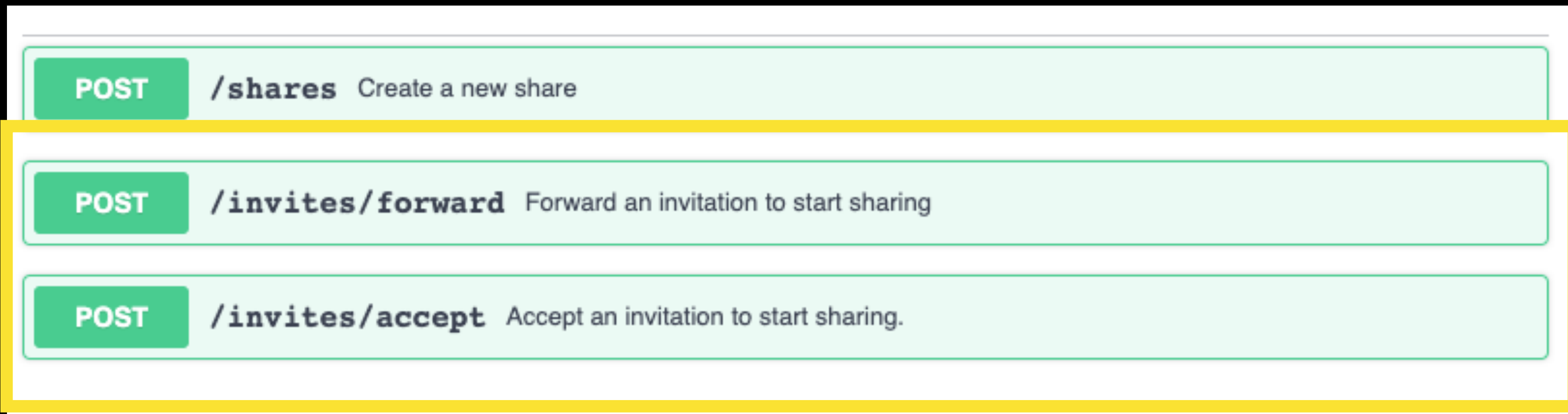
with Invitation Workflow in a non-trusted federation



# User Discovery

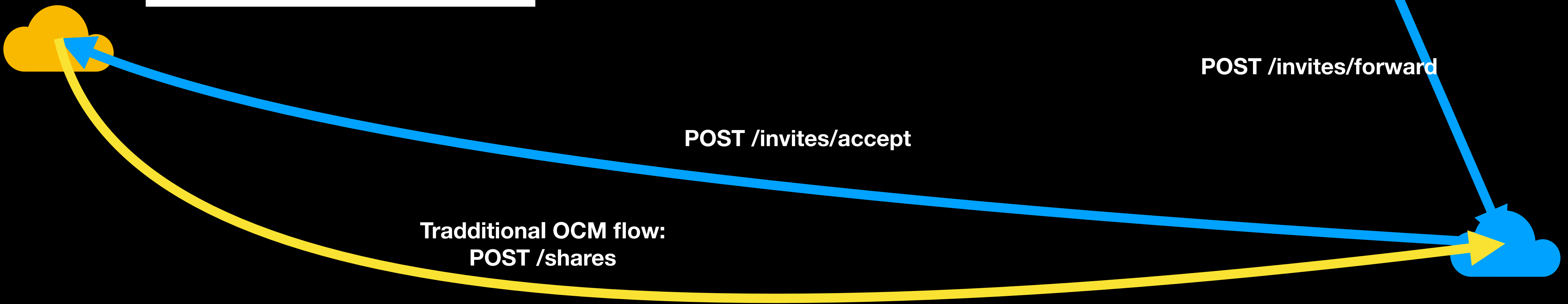
## with Invitation Workflow in a trusted federation





OTP Token (xyz123)  
FromSite: cernbox.cern.ch  
FromUser: Hugo Gonzalez  
RecipientSite: cesnet.cz  
RecipientUser: David Antos  
RecipientUserID: dantos

OTP Token (xyz123)  
FromSite: cernbox.cern.ch  
FromUser: Hugo Gonzalez



# Takeaways

- OCM is a critical protocol for ScienceMesh
  - Many use-cases piggy backing on it (data tx, guest access)
    - TOMORROW ON THE SCIENCEMESH WORKSHOP
- Invitation workflow is a modern compromise between usability and privacy
- Extension is **vendor-neutral**, lot of room for **vendor-innovation** for creating and sending the invitation (QR code from phone, Mattermost, InstantMessaging ...)
- <https://github.com/cs3org/OCM-API/pull/41>