



**CS³
MESH⁴
EOSC**

Connecting European Data




User-friendly OCM Invitation and Sharing in CERNBox

Elizaveta Ragozina



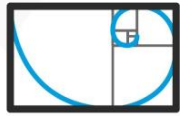
CS3MESH4EOSC has received funding from the European Union's Horizon 2020 Research and Innovation programme under **Grant Agreement No. 863353**.



- # Elizaveta @ CERNBox wants to share data with Albert @ Marineford
- # Sends an invitation to Albert via email
- # Albert reveals his identity by accepting
- # Mutual sharing 

Video

1. Clear



Aesthetic & Minimalist Design

2. Familiar



Consistency



Visibility of System Status



Match Between System & the Real World



Recognition Rather than Recall

3. Empower



Flexibility & Efficiency of Use

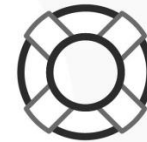


Help & Documentation



User Control & Freedom

4. Avoid errors



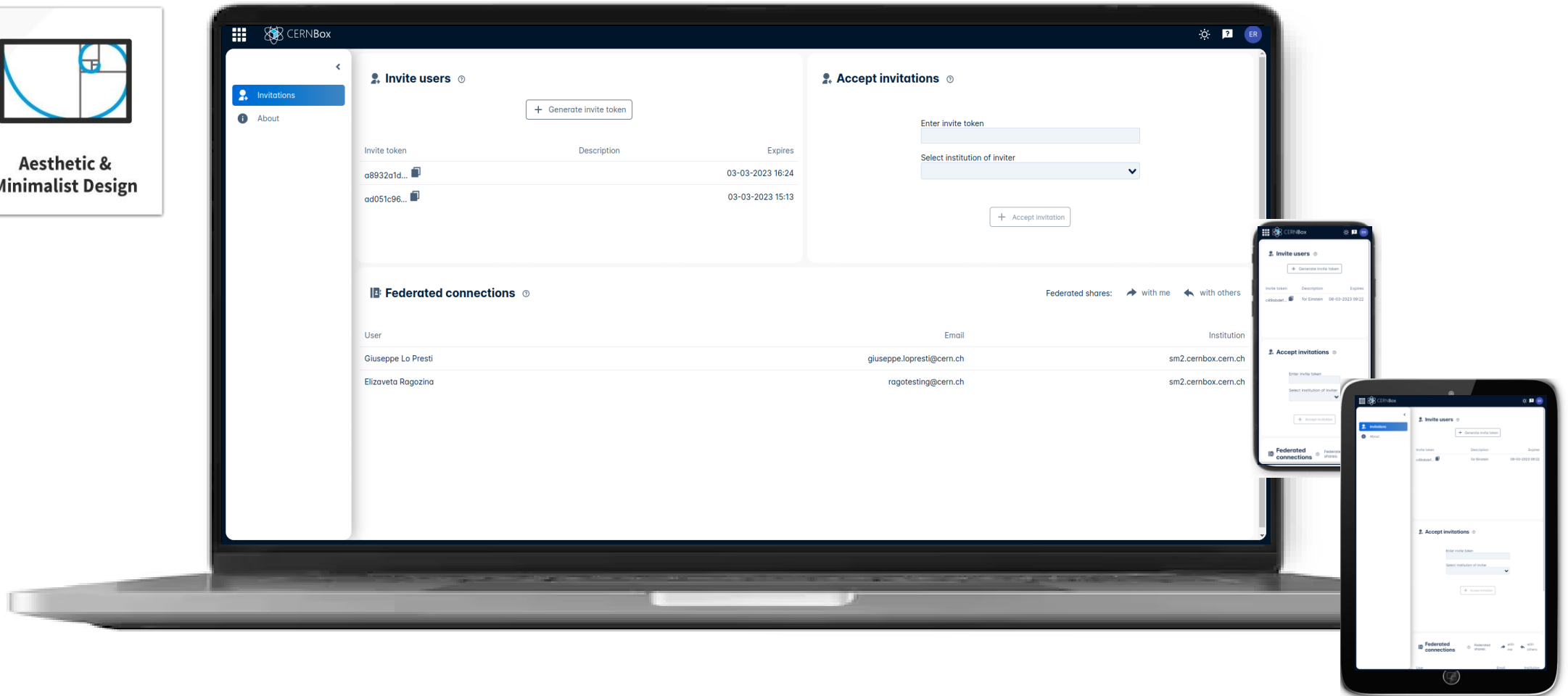
Help Users Recognize & Recover from Errors



Error Prevention

10 heuristics by Nielsen

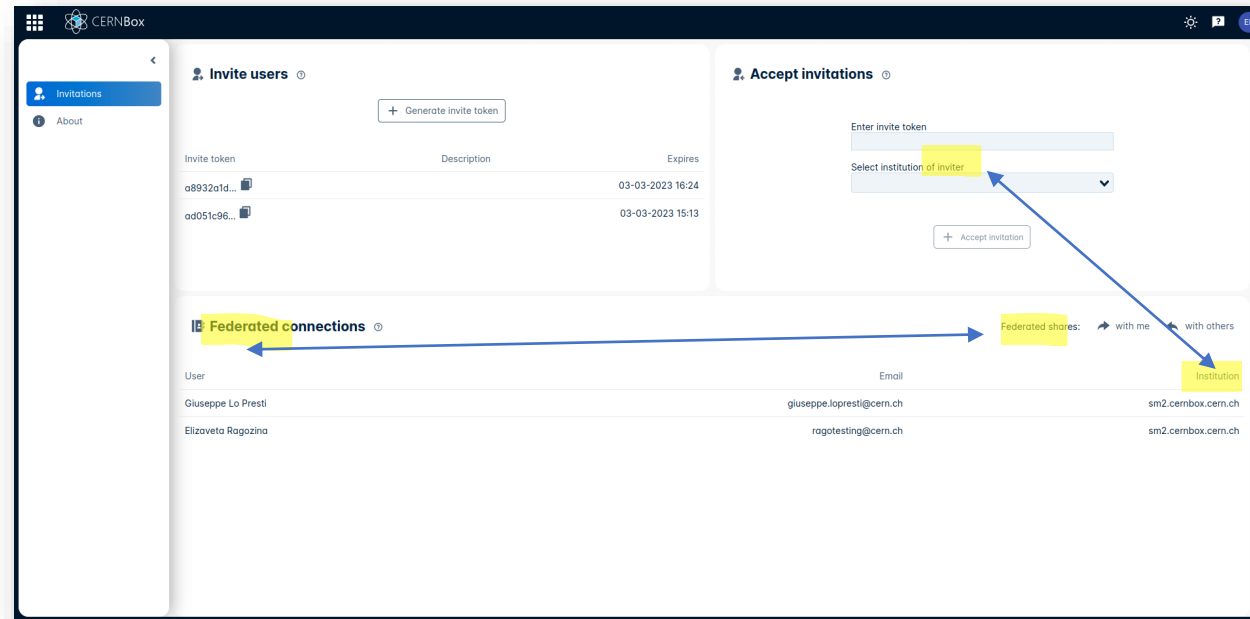
1. Make it clear





- # Reusage of ownCloud UI components
- # Wordings

ownCloud Design System



- # Federated sharing is integrated into usual sharing



Status through notifications and information highlights

Federated connections ⓘ Federated shares: → with me ← with others

User	Email	Institution
Hugo Gonzalez Labrador	hugo.gonzalez.labrador@cern.ch	sm2.cernbox.cern.ch
Giuseppe Lo Presti	giuseppe.lopresti@cern.ch	sm2.cernbox.cern.ch
Elizaveta Ragozina	ragotesting@cern.ch	sm2.cernbox.cern.ch

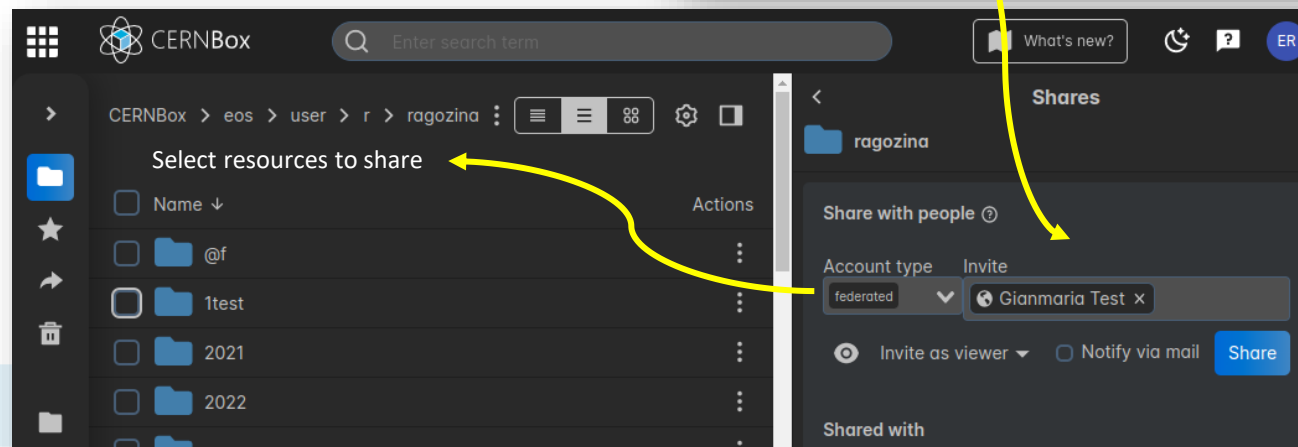
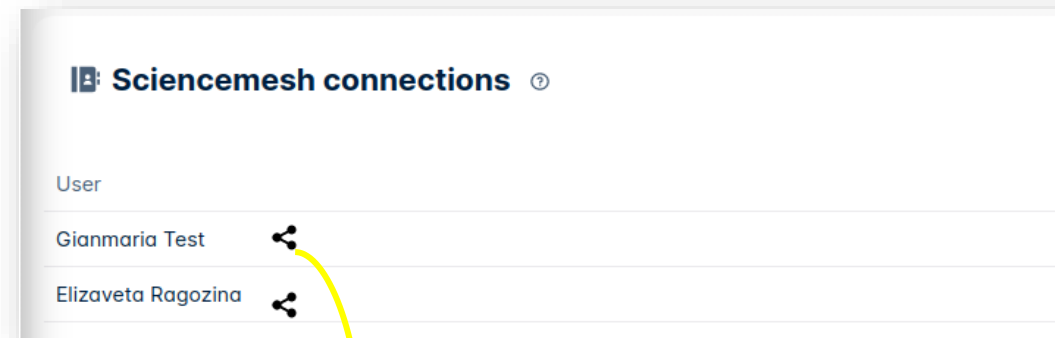
📘 New federated connection
You can share with and receive shares from Hugo Gonzalez Labrador @ Marineford now



User's language, familiar icons

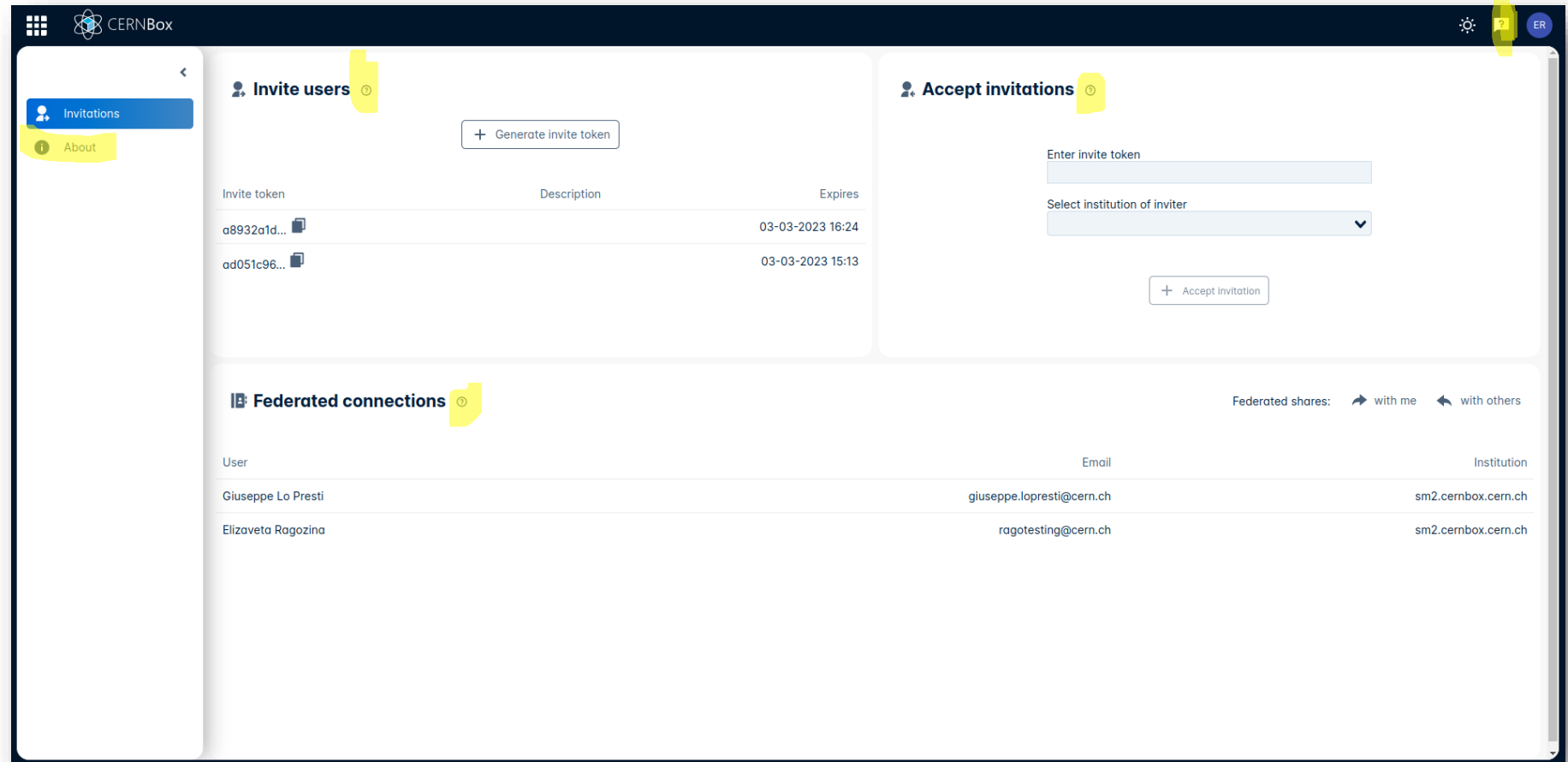


Inverted sharing workflow
(planned)





- # Flexibility to select how to send and accept invitations
- # Efficiency support: token gets copied to clipboard on creation
- # Scroll & focus to accepting area when in role of the invitee



The screenshot shows the CERNBox user interface. The top navigation bar includes the CERNBox logo, a settings icon, a notification bell, and a user profile icon labeled 'ER'. The main content area is divided into three sections:

- Invite users:** Features a '+ Generate invite token' button and a table of active invitations.
- Accept invitations:** Includes a text input for 'Enter invite token', a dropdown for 'Select institution of inviter', and a '+ Accept invitation' button.
- Federated connections:** Shows a list of users with their email addresses and institutions, and options to share 'with me' or 'with others'.

Invite token	Description	Expires
a8932a1d...		03-03-2023 16:24
ad051c96...		03-03-2023 15:13

User	Email	Institution
Giuseppe Lo Presti	giuseppe.lopresti@cern.ch	sm2.cernbox.cern.ch
Elizaveta Ragozina	ragotesting@cern.ch	sm2.cernbox.cern.ch



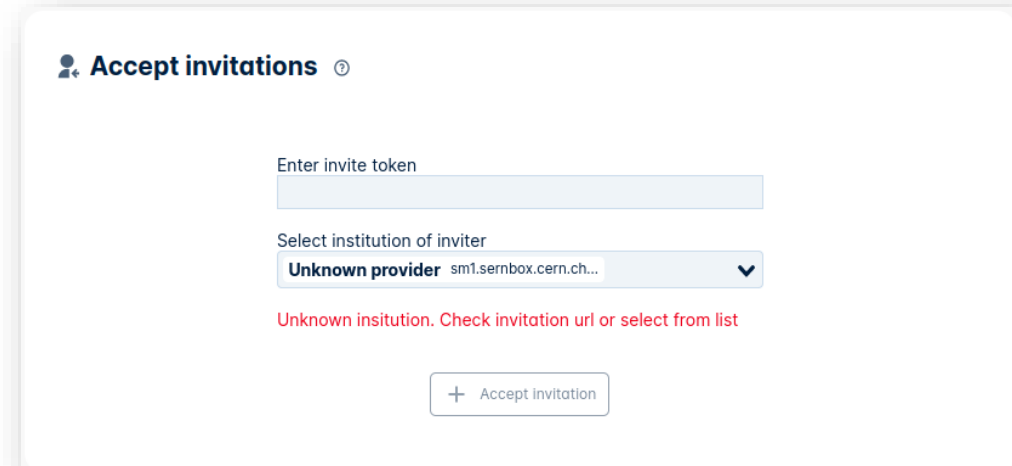
"Undo" actions: remove tokens, connections, shares (planned)

Scienmesh connections ⓘ

User	
Gianmaria Test	🔗 X
Elizaveta Ragozina	🔗 X



Prevent forms from submitting by unknown/ missing information



Accept invitations ⓘ

Enter invite token

Select institution of inviter
Unknown provider sm1.sernbox.cern.ch... ▼

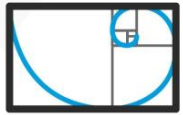
Unknown insitution. Check invitation url or select from list

+ Accept invitation



Meaningful user-friendly error messages (in progress)

1. Clear

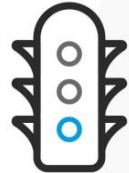


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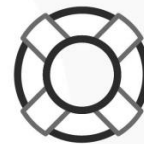


Help & Documentation

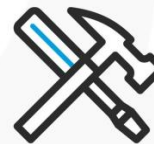


User Control & Freedom

4. Avoid errors



Help Users Recognize & Recover from Errors



Error Prevention

Usability

+

Usefulness

Accessibility

Findability

Plan

- UI polishing
- User tests!
- Converge with oCIS

Idea

- Converge with SM community

Plan

- UI polishing
- User tests!
- Converge with oCIS

Idea

- Converge with SM community

Don't reinvent the wheel

- Same invitation workflow for everyone
- Converge on concept, then on implementation
- Would make it easier to join the SM club

- Modern tech: microfrontends
- APIs spec (/sciencemesh/...)





Frontend

ownCloud Design
System

Backend

- Implementation for REVA
- Invitation + Sharing + Apps (Gianmaria)

OCM APIs

- Working prototypes, do cumentation (Samuel)
- Version 2 (Gianmaria, Giuseppe)
- OCM extension in CS3APIs



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Thank you!
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