UNIVERSITY OF CAMBRIDGE

OSC Office of Scholarly Communication

Cambridge use case: Integrating RSpace and Apollo repository

Dr Agustina Martínez García
Repository Integrations Manager
Office of Scholarly Communication
am857@cam.ac.uk

doi:10.17863/CAM.21103

CC BY

Digital Notebooks - how to provide solutions for researchers
TU Delft Library
16th March 2018

Outline

- Trial overview
- Background: systems at Cambridge
- ELN and repository integration
- Benefits & challenges
- Next steps
- For discussion: future solutions?

Office of Scholarly Communication

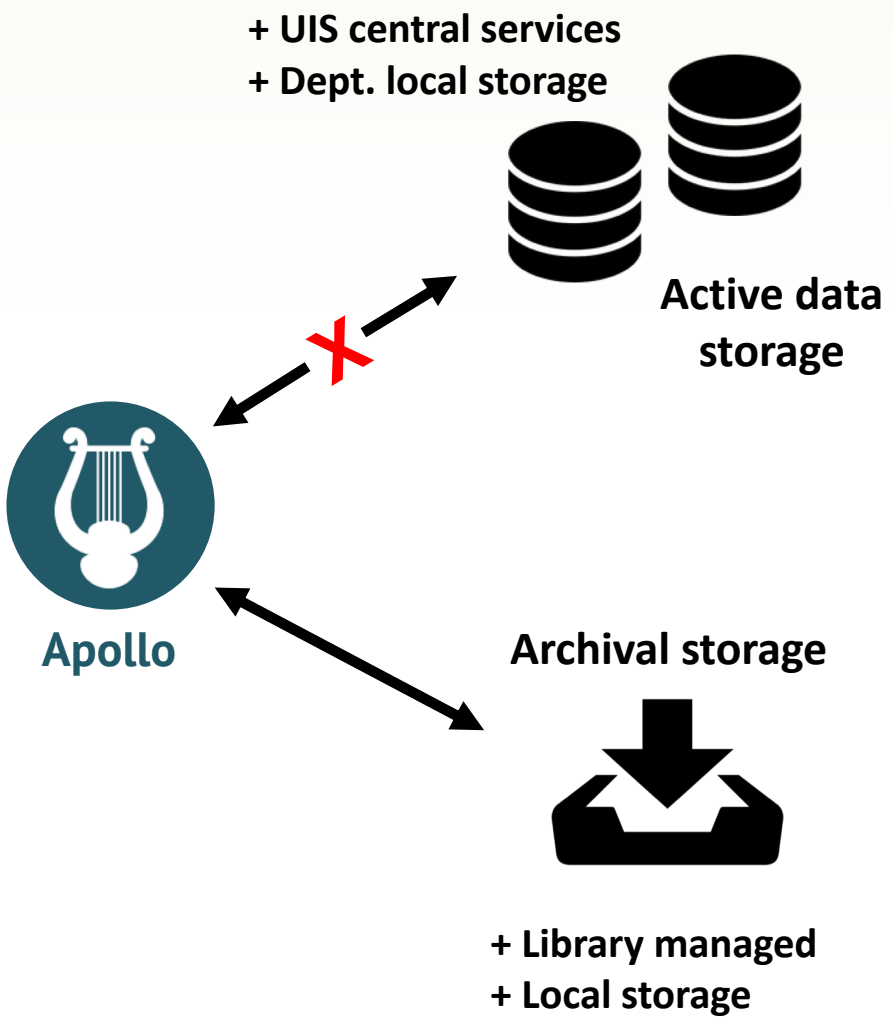
Trial overview (I)

- Exploratory work of main ELN solutions
  - Particular focus on a set of features:
    - Authentication mechanisms
    - Multi-platform and mobile device support
    - **Storage options**
    - **Export options**
    - Licensing models

Trial overview (II)

- Four ELN providers were shortlisted
  - LabArchives
  - RSpace
  - Scinote
  - OSF
- Meeting providers and discuss trial participation and product features
  - Focus on export options: integration with repositories

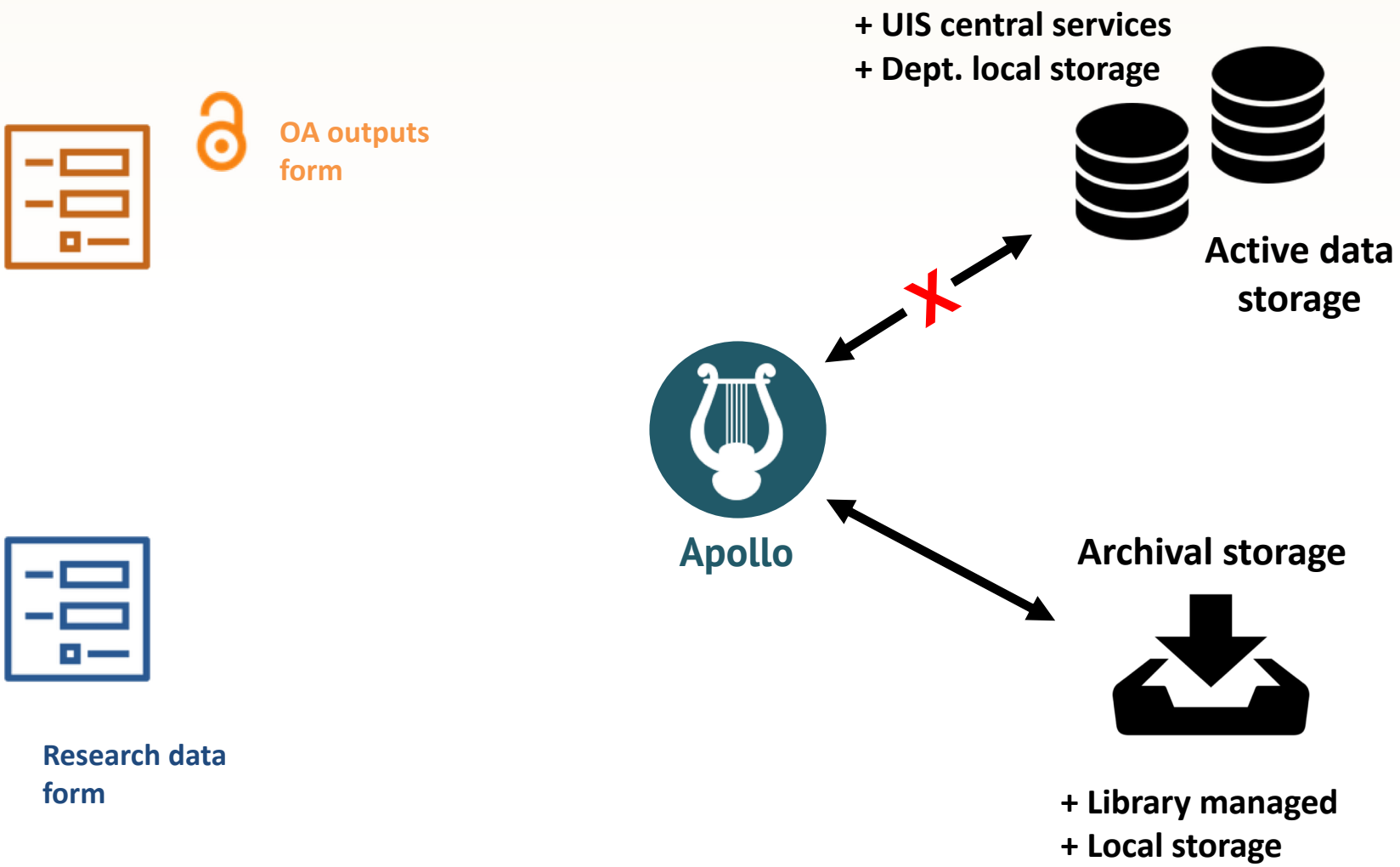
Background: systems at Cambridge (I)



Prior to repository upgrade: disconnected systems

OSC
Office of Scholarly Communication

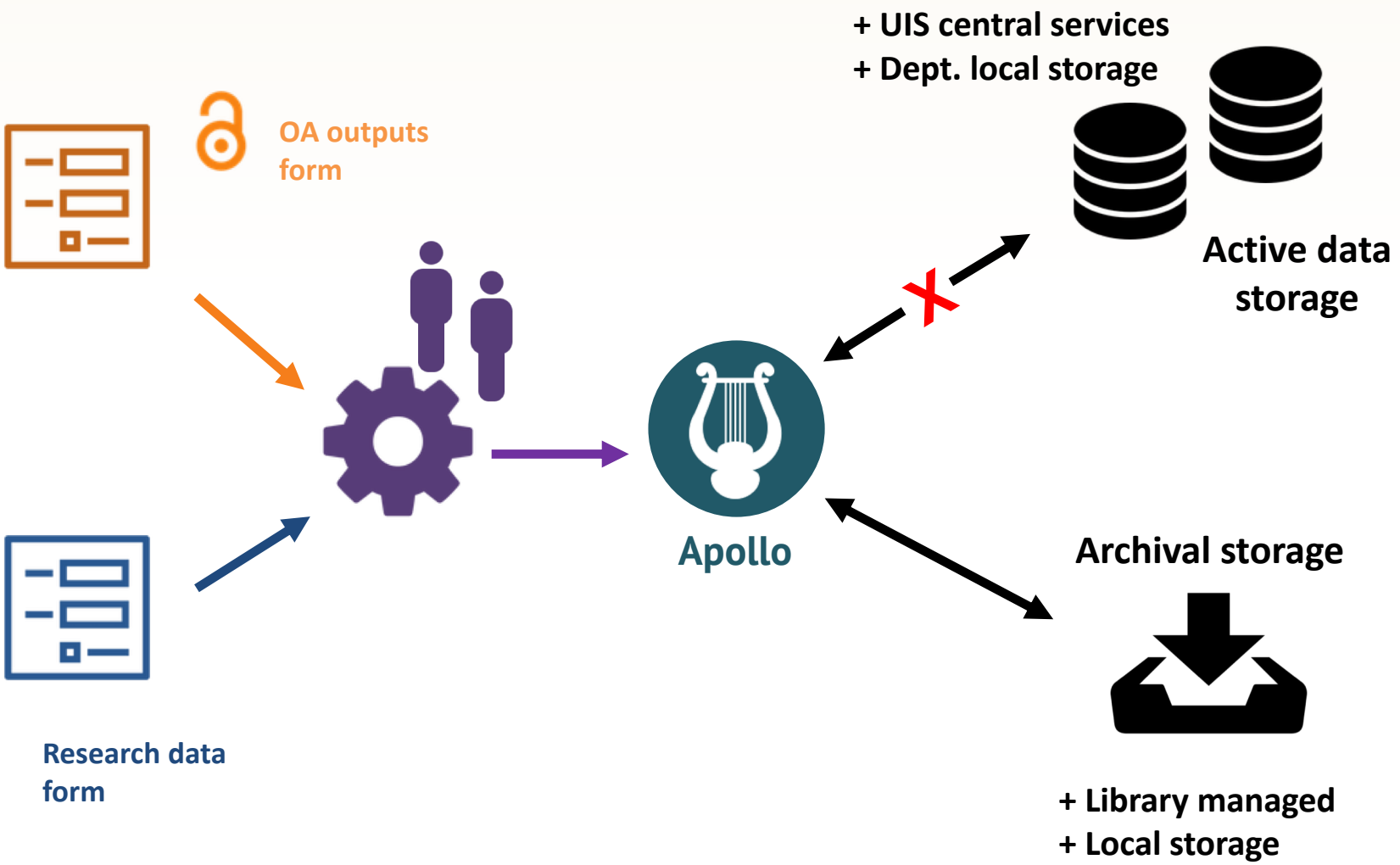
Background: systems at Cambridge (I)



Prior to repository upgrade: disconnected systems

OSC
Office of Scholarly Communication

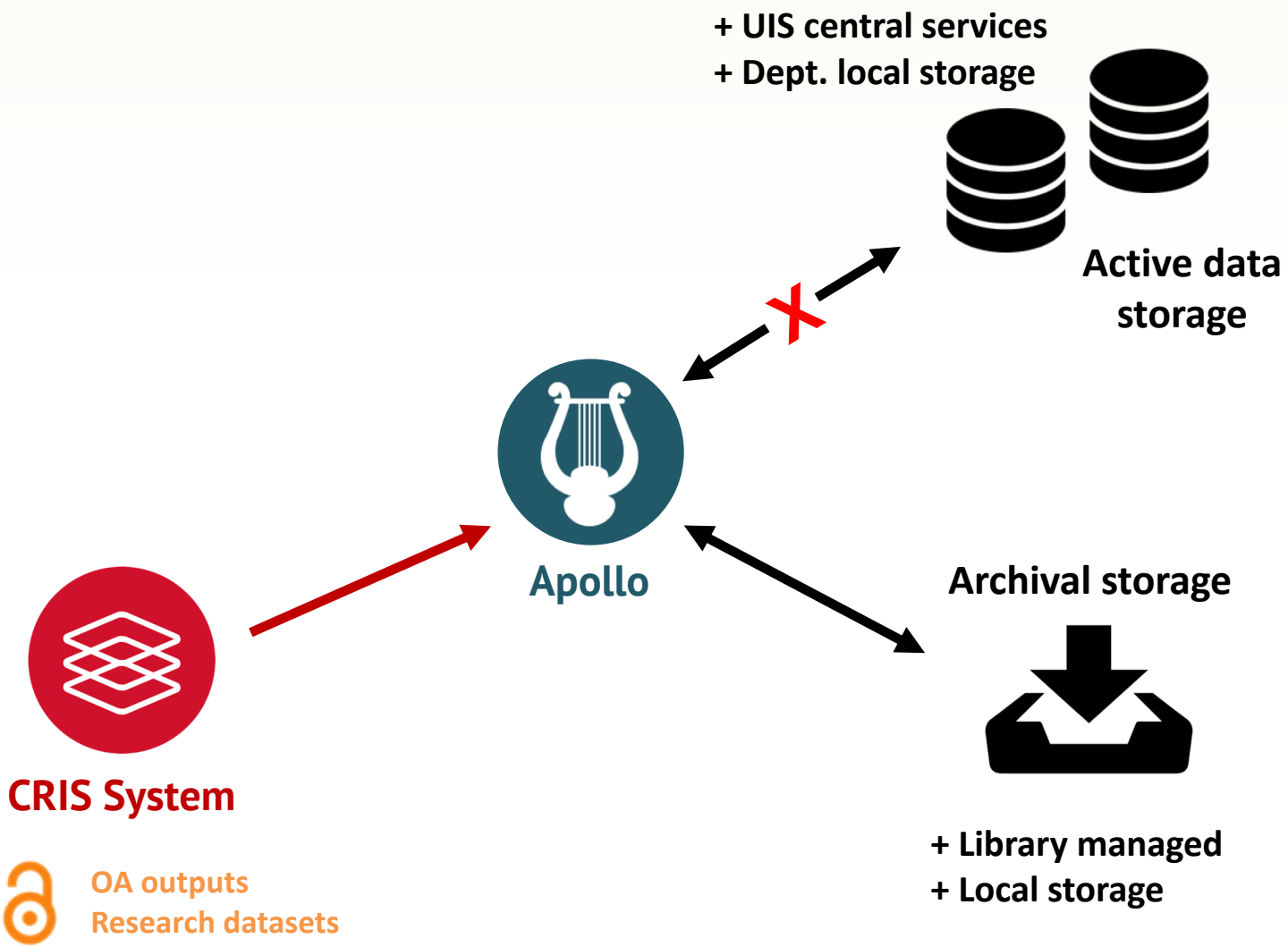
Background: systems at Cambridge (I)



Prior to repository upgrade: disconnected systems

OSC
Office of Scholarly Communication

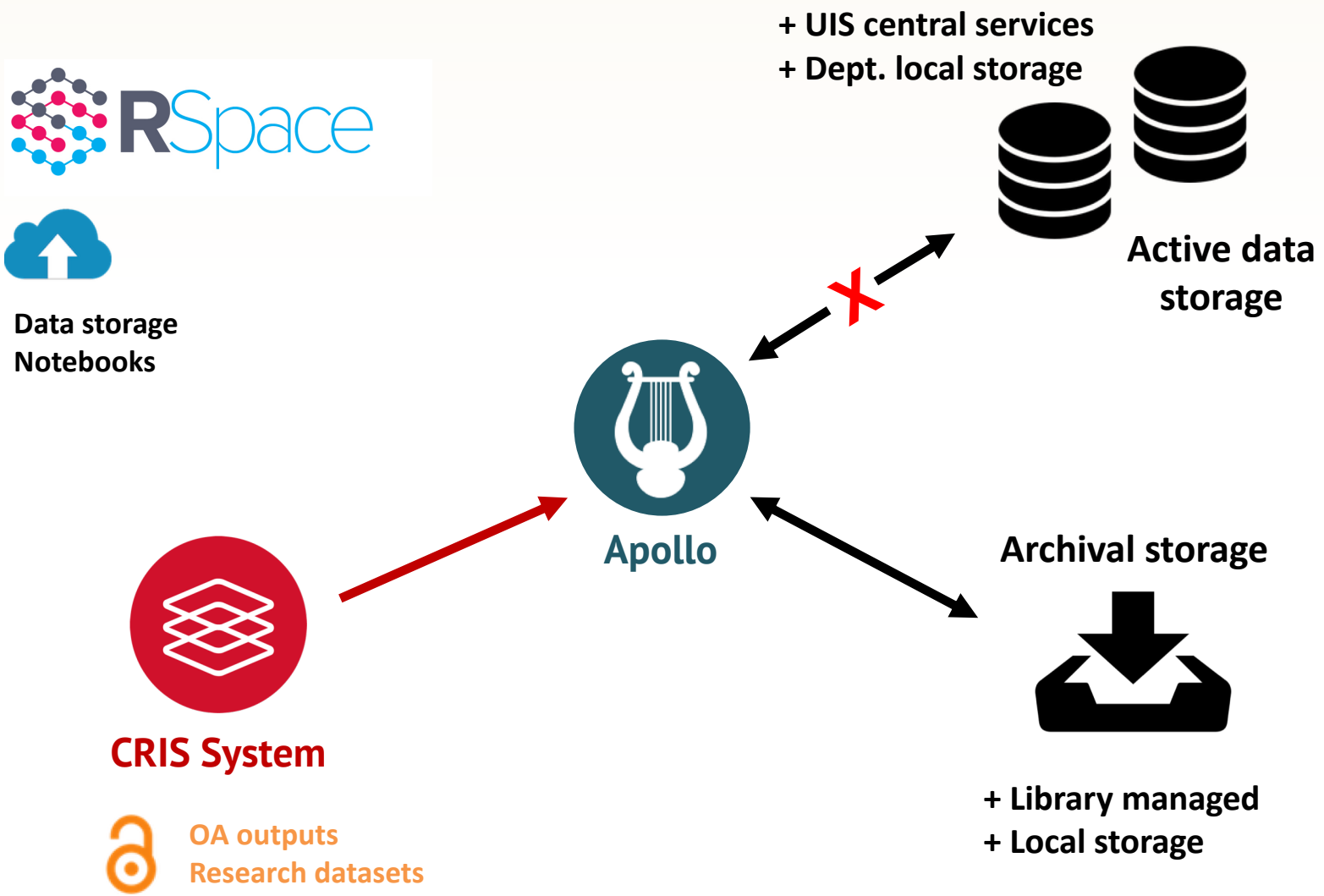
Background: systems at Cambridge (II)



Automated submission, integration with CRIS system

OSC
Office of Scholarly Communication

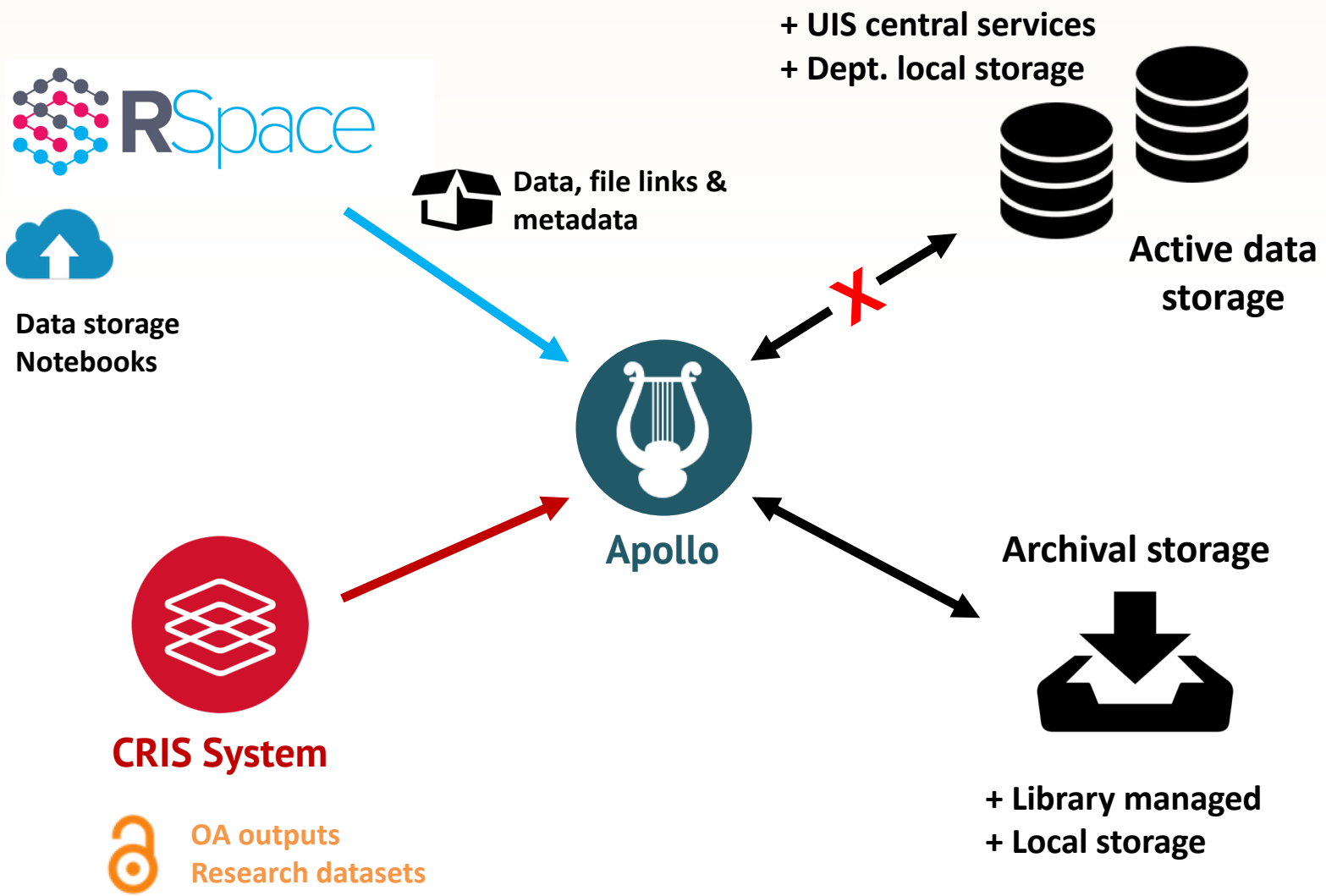
Background: systems at Cambridge (II)



Automated submission, integration with CRIS system

OSC
Office of Scholarly Communication

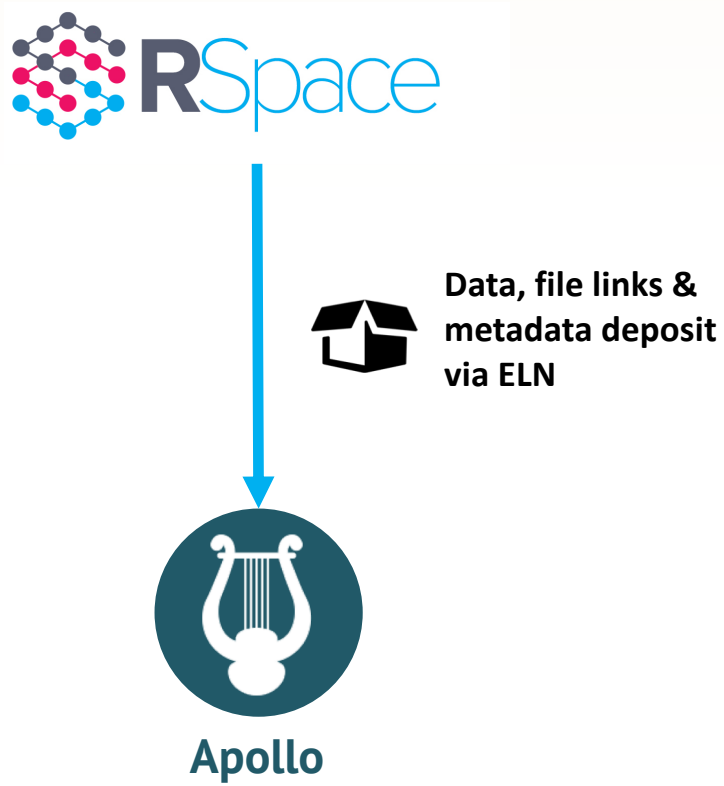
Background: systems at Cambridge (II)



Automated submission, integration with CRIS system

OSC
Office of Scholarly Communication

ELN and repository integration



- **RSpace**
  - Dedicated Cambridge instance (v1.48.0)
  - Shibboleth Single Sign-on
  - Cloud storage
- **Apollo repository**
  - DSpace platform (v5.6)
  - Open-source
  - Local storage
  - Trial “staging” instance

OSC
Office of Scholarly Communication

ELN and repository integration: deposit

- The deposit process …
  1. Users select notebook / files to be exported,
  2. Users provide minimal metadata
  3. Notebook is packaged and sent to the repository
- Demo time!

Office of Scholarly Communication

Benefits & challenges

Benefits

- Suppress the need for yet another platform for research data sharing and long-term storage
- Better data curation: datasets are curated during the research process
  - Internal links, underpinning data and documentation are exported

Challenges

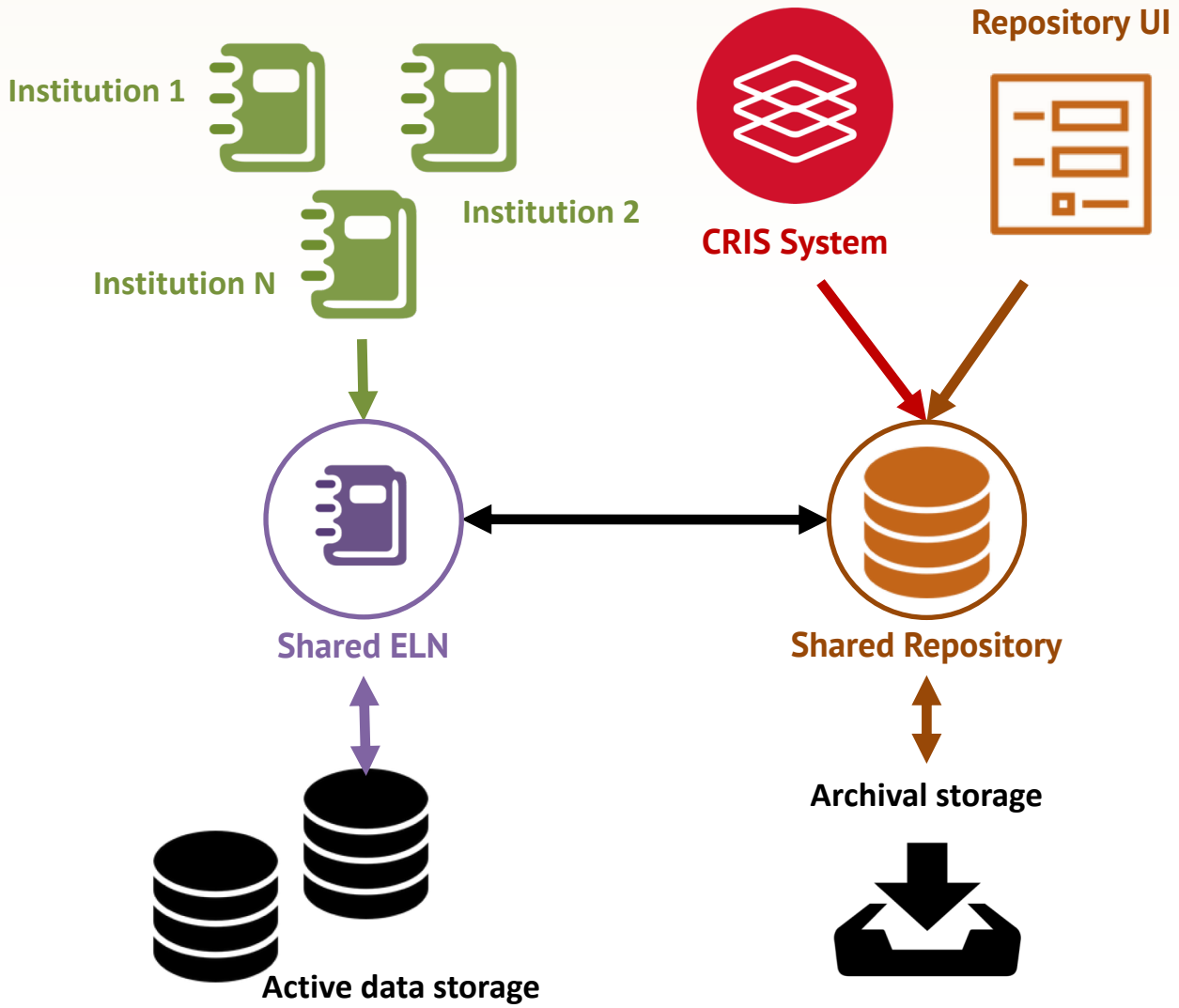
- Coping with large datasets
- De-centralised active data stores
- Preserving the ELN structure in the repository

Next steps

- Focus of the integration between active research data and archival data storage
- Develop a pilot with researchers currently using Rspace
  - Research groups currently using the community edition
  - Shown interest in knowing more about repositories
- Jisc Research Data Shared Service (RDSS)

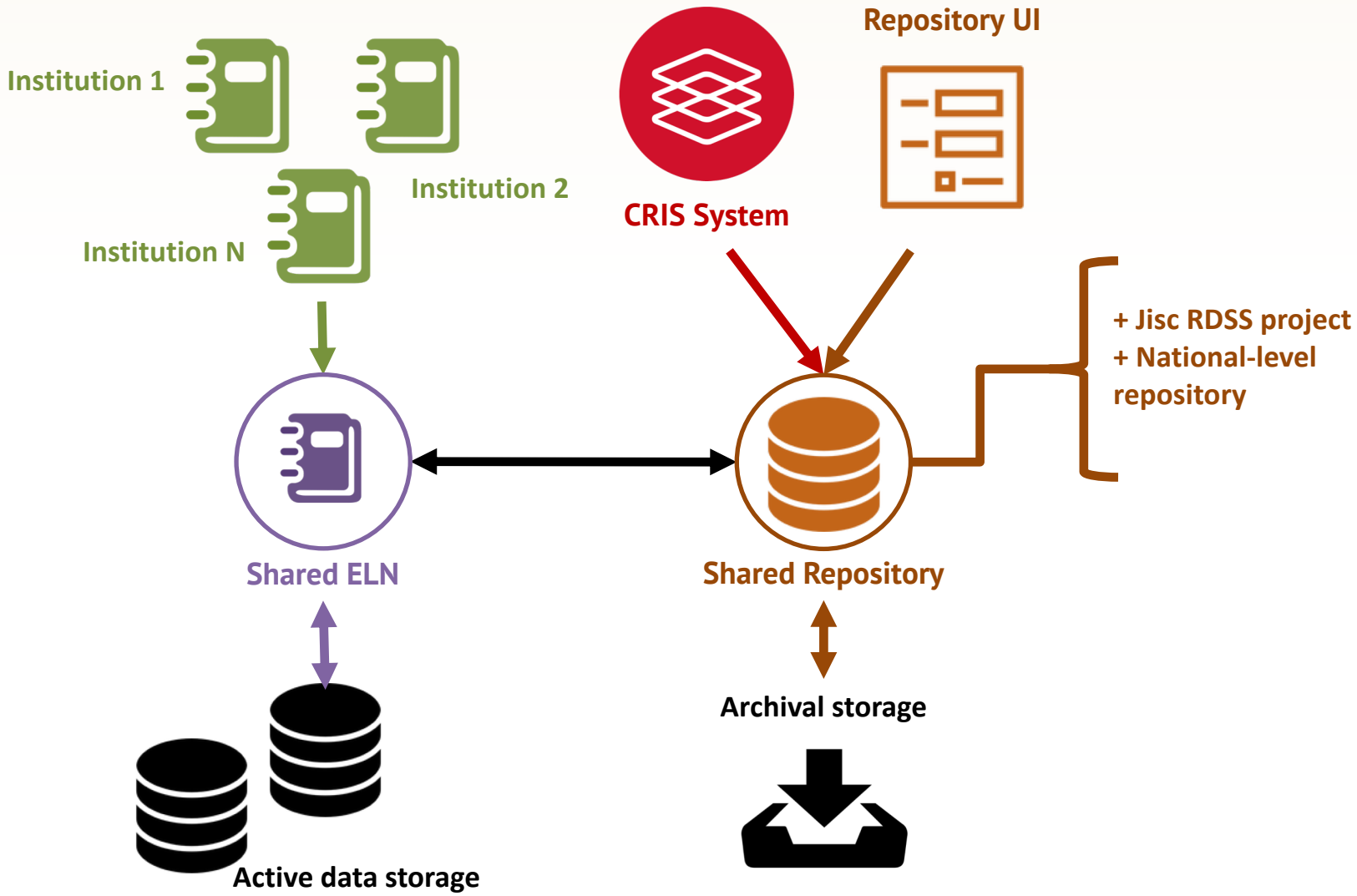
OSC
Office of Scholarly Communication

Future solutions?



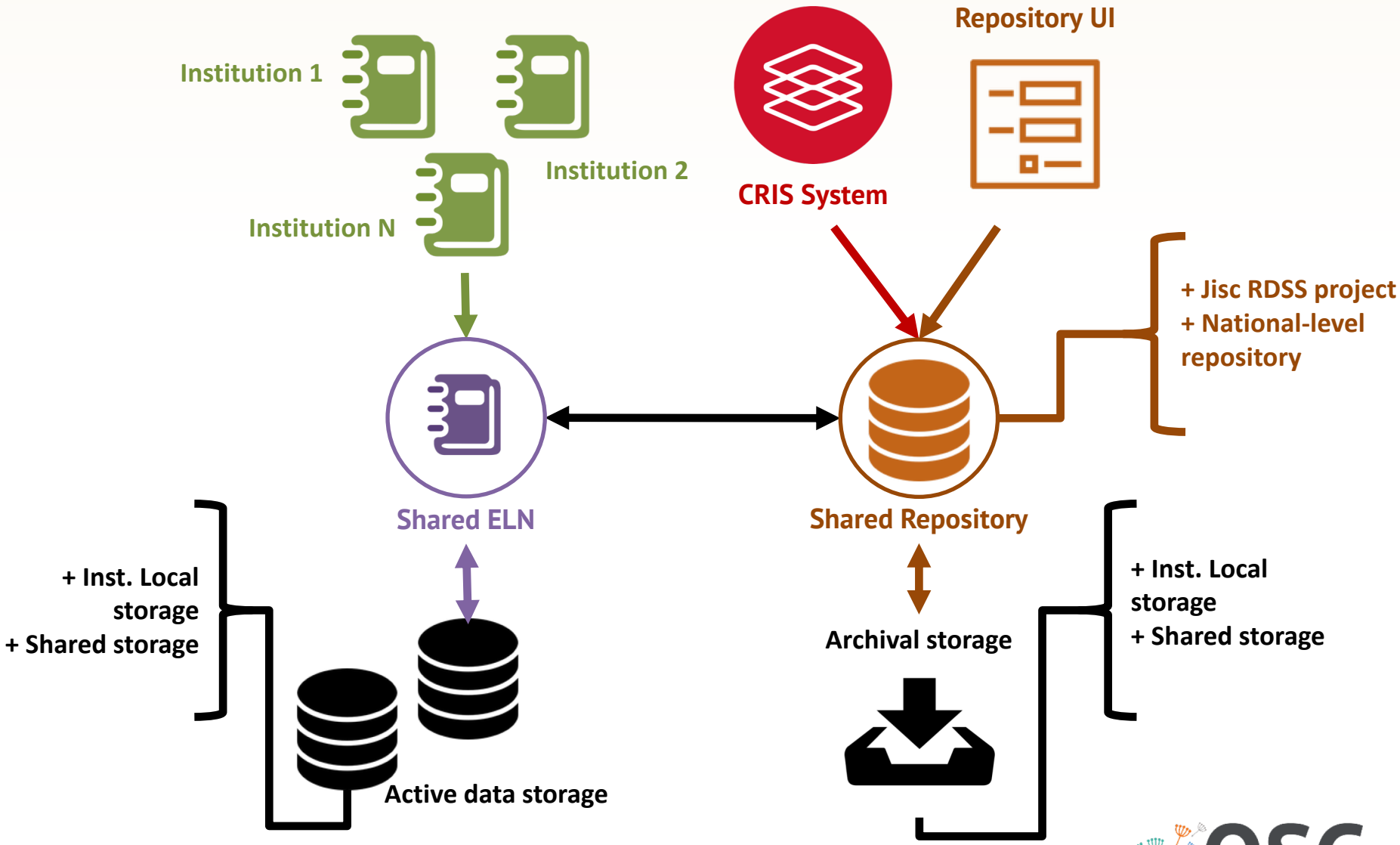
OSC
Office of Scholarly Communication

Future solutions?



OSC
Office of Scholarly Communication

Future solutions?



OSC
Office of Scholarly Communication

UNIVERSITY OF CAMBRIDGE

OSC
Office of Scholarly Communication

Thanks!

CC BY