

# Enhancing Open Access at Cambridge

Apollo repository, CRIS integrations and more...

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## | Outline

- Overview of systems at Cambridge
  - Repository and CRIS integrations
- Enhancing OA workflows
  - Fast Track
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- Enhancing publications metadata
  - Jisc Publications Router Elements Integration pilot
- Next steps

# Overview of systems at Cambridge

## Apollo - University of Cambridge Repository

This repository holds the research output of members of the University of Cambridge. It is delivered and managed by the University Library's Office of Scholarly Communication team.



- Apollo – Cambridge's Institutional Repository

- Symplectic Elements – Cambridge's CRIS

- Zendesk – OSC helpdesk support system

Welcome to the University of Cambridge Open Access support site

Search and browse our FAQs or [submit a support request](#) if you can't find the answer to your problem.

If your paper has been accepted for publication please [upload it via Symplectic Elements](#).

[Open Access FAQs](#)

[Symplectic Elements FAQs](#)

# Repository and CRIS integrations



**Elements**



## Open Access (OA)

Article and data deposits  
via CRIS



**Apollo**



## OA workflows

- Submission management
- Communication with researchers

## Repository ↔ Elements

- Via Repository Tools 1 (RT1) connector
- CRIS – Repository metadata crosswalks
- Automatic update of repository records

## Repository → Helpdesk

- Via Zendesk API
- Ticket creation and update
- Receive updates from Elements

# Remaining challenges following from integration

## Technological

- System dependencies: cannot upgrade DSpace beyond v5.x due to incompatibility with the RT1 connector
- Duplicates in Elements due to multiple submissions: e.g. accepted and published versions, co-authors uploading multiple times, etc.

## Data related

- Limited configuration of metadata updates: “all or nothing”
- Varied coverage from external metadata sources

## Operational

- Large volume of deposits and repository time-consuming review processes
- Complex user interface for researchers in CRIS system

# Enhancing OA workflows: Fast Track

The screenshot displays the 'Fast Track Deposits' web interface. At the top, there is a navigation bar with 'Home', 'Help', 'Admin', and 'My processed items'. Below this is a 'Publication summary' section with the following details:

Field	Value
Title	Biological activity of topographical space
Publisher DOI	Not available
Elements ID	104960
Acceptance date	Not available
Journal Title / Conference name	Not available

Below the summary is the 'Required information' section, which includes an 'Uploaded File(s)' table:

File name	What's this version?	Delete?
1710-08442.pdf	Accepted version	Delete

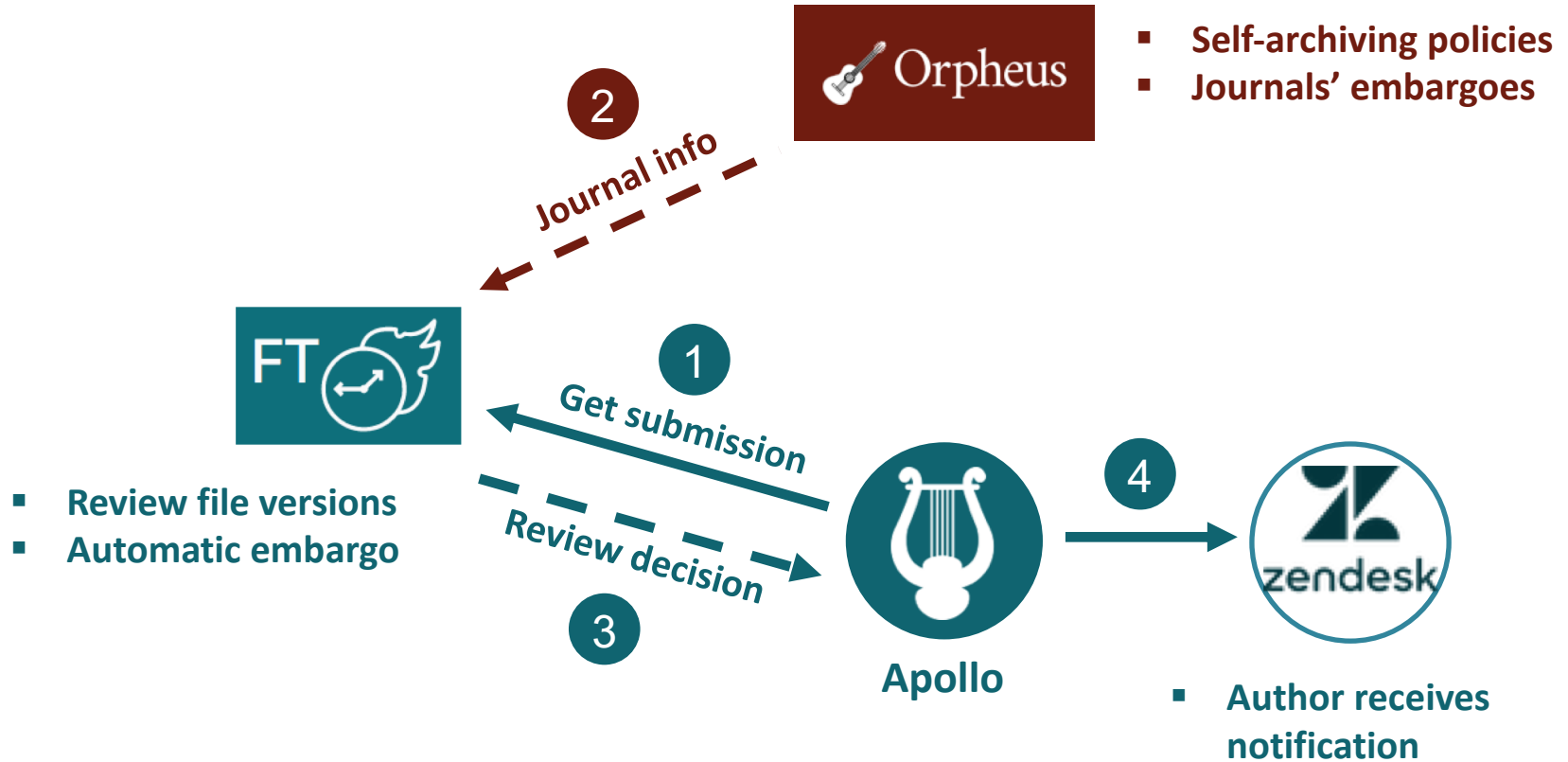
The 'Describe this manuscript' section contains four radio button options:

- Accepted version: Final author version, after formal acceptance but before copy-editing/proofing
- Published version: Final published version, after copy-editing/proofing
- Submitted version: Version before peer-review changes and formal acceptance
- Proof version: Version after copy-editing/proofing but before publication

There is a 'Comments for the OA team' text area and a 'Submit decision' button. At the bottom, there are sections for 'Not sure about the version for this article?' with a 'Skip this item' button, and 'Refer to the Open Access team' with a 'Refer items to OA team' button.

- Simple web interface to review OA submissions
  - Via DSpace API
- Reduced processing times
- Enhanced communication with researchers
- Automated embargo (Orpheus integration)
  - REST API

# Enhancing OA workflows: Fast Track (II)



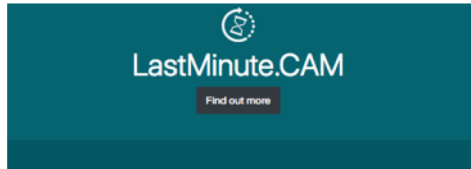
# Enhancing OA workflows: Fast Track (III)

Since launching Fast Track in August 2018...

- Drastic reduction in processing times (~70% less time)
  - Deposit backlog cleared! (> 4,000 publications)
  - More that 8,000 publications processed
- Training librarians and administrators on OA deposits
  - Journal policies
  - Manuscript versions
- Blog post: <https://unlockingresearch-blog.lib.cam.ac.uk/?p=2536>



# Enhancing OA workflows: LastMinute.CAM



**Publication Information**

Publication in Elements: 1064080

Publisher DOI: 10.1016/j.ijpx.2018.100004


Journal: International Journal of Pharmaceutics: X

Title: Predicting capsule fill weight from in-situ powder density measurements using terahertz reflection technology

Acceptance date: 2018-12-19  
Acceptance date is key in determining whether publication comply with the Open Access policy.

Online publication: 2019-01-04

Print publication:

**!** This publication has not been deposited in Apollo. You can upload the accepted version of this publication via Symplectic Elements. 

**Is the publication publicly available in another repository?**  
We have queried Uppsyswell to find an open access version of your article and found results! Can you check that the information below is correct?

File version:  More information about file versions is available [here](#)

- Simple web interface to update publications' information in Elements
- Via Elements API
- Enhanced researcher experience
- Collect key information in a timely manner
- Enhance compliance reporting

# Enhancing OA workflows: LastMinute.CAM (II)

- Add key metadata
- Available OA elsewhere?



- Search by DOI and retrieve OA location
- Targeting OA publications with missing dates (acceptance, publication)
- Publications are updated in Elements with dates, and 'OA location URL' and 'OA location file version'

# Jisc Publications Router Elements Integration pilot

- Pilot with Jisc Publications Router, Symplectic, and two institutions: Cambridge and Sheffield Hallam University
- Main Aims
  - Assess effort required to implement the solution
  - Monitor data being passed between systems
    - Overall volumes of data
    - Proportion of new/unique content coming from different sources
    - Volume of duplicate records

# Jisc Publications Router Elements Integration pilot

- The approach
  - Two different repository technologies (ePrints and DSpace)
  - CRIS – Repository connection via RT2 connector
    - Configuration of harvest and deposit workflows
  - Live connection between repository and Jisc Publications Router\*
  - Custom script development in Elements reporting database

\* *Cambridge test instance vs. using the live repository instance*

# Jisc Publications Router Elements Integration pilot

## Router → Apollo

- SWORD v2 deposits
- Metadata crosswalks
- Metadata parsing
- On-deposit curated task

## Apollo → Elements

- DSpace API connection
- OAI harvesting
- Dedicated collection in repository
- Harvest crosswalks



Publications Router



Apollo



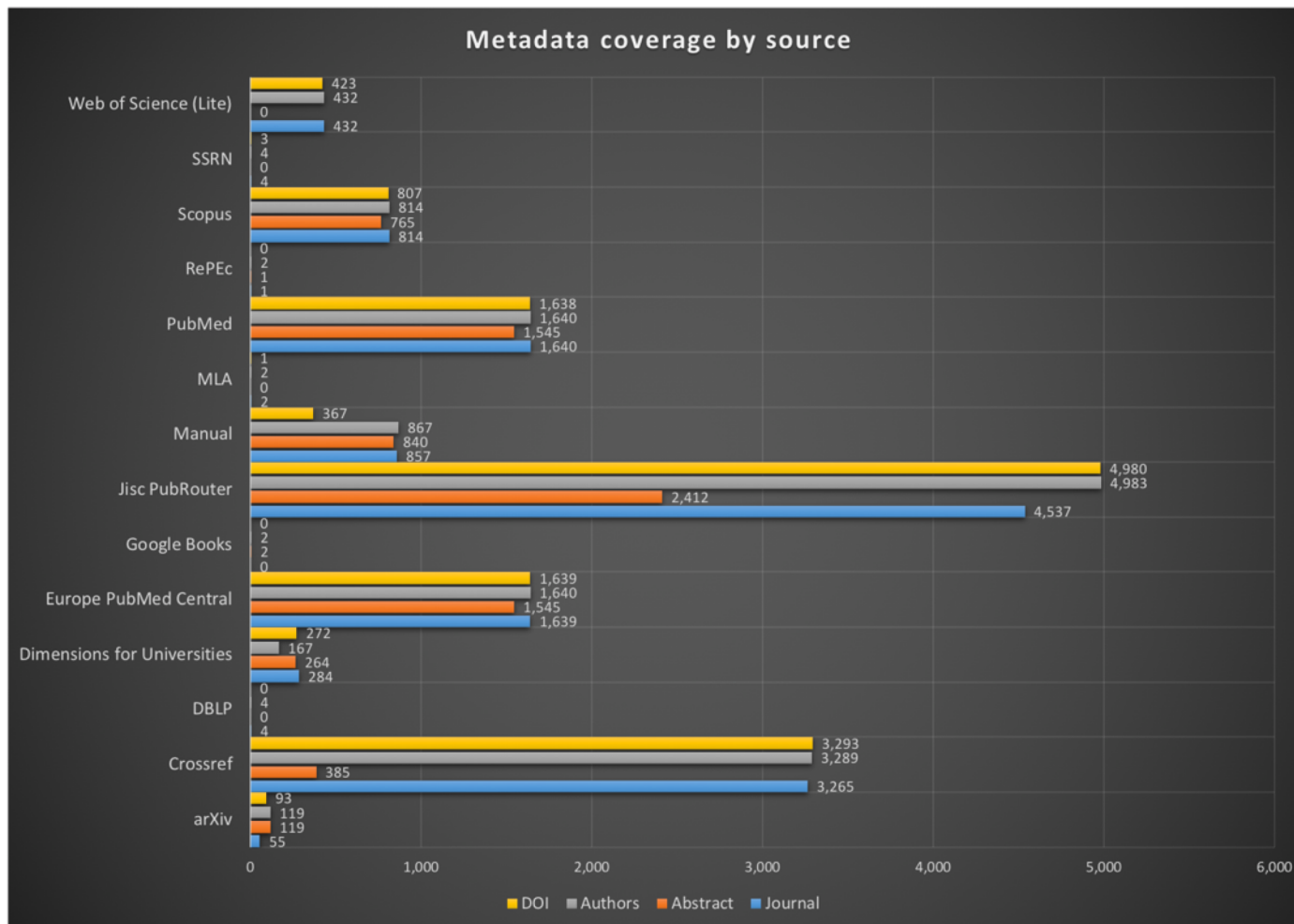
Elements

# Jisc Publications Router Elements Integration pilot

## Initial analysis

Reporting period	29 <sup>th</sup> March – 14 <sup>th</sup> May 2019
Total number of router notifications	4,983
Total number of unmatched records	8
Total number of Router duplicates	1,655
Total notifications with files	863

# Jisc Publications Router Elements Integration pilot



# Next steps

- **Repository - CRIS integrations**
  - Migrate CRIS – repository connector to **RT2**
    - Repository – CRIS integration decoupled from repository
    - Enhanced and highly configurable **metadata crosswalks and updates**
- **Jisc Publications Router - Apollo**
  - Configure and enable a live connection between Apollo and Router
  - Extended Router – Elements pilot



*Thanks!*