Enhancing Open Access at Cambridge
Apollo repository, CRIS integrations and more…

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Repository and CRIS Interoperability, OR 2019, June 10-13, 2019
Outline

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

- Apollo – Cambridge’s Institutional Repository
- Symplectic Elements – Cambridge’s CRIS
- Zendesk – OSC helpdesk support system
Repository and CRIS integrations

**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

**Open Access (OA)**
- Article and data deposits via CRIS

**OA workflows**
- Submission management
- Communication with researchers

**Elements**

**Apollo**
Benefits after integration

For researchers

- **‘One stop’ shop**: OA deposits, grants linking and researcher profiles

Open Access policies and funder compliance

- Enhanced reporting and data from a single source

Enhanced visibility of outputs

- DOI registration and richer publications metadata
  - ORCID identifiers; grants information
  - Populated ORCID profiles via DataCite Auto-update
Remaining challenges

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

- 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)

- Review file versions
- Automatic embargo
- Self-archiving policies
- Journals’ embargoes
- Author receives notification
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 than 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

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

Let's break it down:

1. Get publication
2. Version and OA location
3. Update record

Unpaywall

Elements
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-month reporting window, with by-weekly data extracts
  - 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
# Jisc Publications Router Elements
## Integration pilot
### Initial analysis

<table>
<thead>
<tr>
<th>Reporting period</th>
<th>29(^{th}) March – 14(^{th}) May 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of router notifications</td>
<td>4,983</td>
</tr>
<tr>
<td>Total number of unmatched records</td>
<td>8</td>
</tr>
<tr>
<td>Total number of Router duplicates</td>
<td>1,655</td>
</tr>
<tr>
<td>Total notifications with files</td>
<td>863</td>
</tr>
</tbody>
</table>
Jisc Publications Router Elements
Integration pilot

Metadata coverage by source

- Web of Science (Lite)
- SSRN
- Scopus
- RePEc
- PubMed
- MLA
- Manual
- Jisc PubRouter
- Google Books
- Europe PubMed Central
- Dimensions for Universities
- DBLP
- CrossRef
- arXiv

[Bar graph showing coverage metrics for different sources]
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!