Systems Integration for Open Access and Data Services

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Outline

• The problem...
  – Open Access and Data submissions
  – Reporting: funders, HEFCE, REF
  –Disconnected systems

• Integrated solution
  – Pilot Overview
  – Connected systems
  – Benefits

• Questions
The problem...

**OA publications**
In-house submission form
Manual deposits into the repository

**Research datasets**
External submission form
Manual deposits into the repository

**HEFCE/REF reporting**
Publications and grants entered into Elements (CRIS)

**Reporting to funders**
Outputs and grants information entered into Researchfish
Open Access services

OA publications
‘on acceptance’ deposits.
Complex, manual workflow

• Researchers submit articles via our in-house system
• OA team interacts with researchers via our helpdesk system
• OA team performs mediated, manual deposit in the institutional repository
Researchers submit data via one system, hosted externally.

- Data team interacts with researchers via our helpdesk system.
- Data team performs mediated, manual deposit in the institutional repository.

Research datasets
Datasets supporting publications
Complex, manual workflow.
• Duplicated effort for researchers as they need to:
  – enter their OA publications in Symplectic as well
  – Link them to grants

• There is no link between OA publications in the repository and the same publications in Elements
Funders reporting

- We are one of the pilots involved in the ‘Researchfish interoperability’ project
- Publications and grants information in Elements will be pre-loaded into Researchfish

Reporting to funders
Outputs and grants information Entered into Researchfish
Academics workflow (disconnected systems)

1. **OA Articles**
   - Upload Author Accepted Manuscripts

2. **Data**
   - Upload supporting data

3. **Research Outputs**
   - Add / Claim publications
   - Add grants and link to publications

4. **Reporting**
   - Submit research outputs and grants

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- **Apollo**
- **Apollo**
- **Elements**
- **Researchfish [PILOT]**
Limited reporting owing to the repository structure

Associating academics with their publications is highly difficult (i.e. we do not have an author registry in the repository)

Very manual workflows (updating publications, linking datasets to publications, etc.)

Researchers have to access a range of disconnected systems
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Research Outputs

Add / Claim publications
Add grants and link to publications

• Publications duplication
• Complex, time-consuming reporting (i.e. data from Elements and the repository need to be matched manually)
• Difficulties with compliance reporting (i.e. accounting for multi-departmental collaborations)
• Researchers need to enter the publication information twice (Elements and the repository)
Researchers need to enter outputs and grants information in Symplectic and Researchfish.

Researchers find reporting via Researchfish complex and time-consuming.
The Pilot…

2016
Sept - Oct

STAGE 1
Test deposits internally
Scope out workflows
Develop training materials

2016
Nov - Dec

STAGE 2
Researchers from Pilot Depts.
submit via Elements
Feedback and assess support materials

2017
Jan - Mar

STAGE 3
Assessment and refinement phase

2017
April -

STAGE 4
University rollout
The systems...

- **Symplectic Elements (v5.1.2)**
  - Integration with the repository via Repository Tools (from Symplectic)
  - Custom metadata crosswalks to map repository items to publications in Elements
  - Customisation of deposit forms for accepted publications, dataset and conference (limited as Symplectic is a ‘closed’ system)

- **Apollo (DSpace repository – v5.5)**
  - Integration with the helpdesk system (internal, bespoke development in the repository)
  - Metadata enhancement/customisation

- **Zendesk Helpdesk system**
The integrated solution

1. Open Access publications
2. Supporting Data
3. Add grants and link to publications

https://symplectic.admin.cam.ac.uk

Elements

Apollo
https://www.repository.cam.ac.uk

Researcher profiles (To come soon...)

Researchfish [PILOT]
• Upload all their research outputs from a single system
• Add grants and links to publications
• Link to their ORCID profiles
• Obtain DOIs for their datasets and publications
• Reduced administrative burden
Benefits for the team

- Fewer systems to access and manage
- Enhanced internal workflows
- Faster and easier processing of research outputs
- Enhanced compliance reporting
- Staff can focus on supporting researchers with open access and data management
Thanks!

Questions