Openness Profile: Modelling Research Evaluation for Open Scholarship

SHARC Session 20 April 2021
Research Data Alliance, 17th Plenary, Edinburgh
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Who is Knowledge Exchange?

Mission: “To enable open scholarship by supporting an information infrastructure on an international level”
Outline

- Why is an Openness Profile needed, and what would it look like?
- A framework to incentivise open scholarship
- What needs to happen to make it a reality
Why an Openness Profile is needed

... and what it would look like
Contribution and provenance across the scholarly value stream

- Funding & Grants
  - Research outputs
    - Data structures
    - Research infrastructure
    - Reports
    - Computer programs
    - Posters

- Publications

- Impact & Evaluation
  - Social benefit
  - Tech transfer
  - Economic impact
  - Citations
  - Evaluation framework contributions (EG REF)
  - Research funding
Connections provide answers

Q. Supervisor: How well does my postdoctoral fellow make their analysis code available?
A. Connect researcher profile with code repositories

Q. Funder: What percentage of projects that we fund are consistently publishing data sets?
A. Connect articles to projects to grants and objects in repositories

Q. Researcher: Which institution has a culture of openness?
A. Connect organisational IDs to repositories and researcher outputs
Openness Profile Workflow (concept)
Key integrations with existing PID systems
A framework to incentivise open scholarship
Project scope

Part 1
Semi-structured interviews

Part 2
Plenary meeting including all stakeholders

Part 3
Group 1: PID Experts
ORCID Datacite Crossref RAID
Group 2: Stakeholders with potential use-cases
Funders inc. NWO Institutions Research orgs +consortia
Group 3: Groups that have already made progress
OPERAS U Helsinki Curtin U

Expected outcomes
Identify areas of cooperation for greater interoperability and automation
Create a shared understanding of community validated use cases to drive further development
Share learnings and/or technology to build on ongoing work or pass on to other pioneers
18 months, 48 organisations, 80 people

**PID providers**
- iD
- RAiD
- CERIF

**Publishers**
- 5 Organisations including trade associations
- STM

**National Research Orgs**
- 5 Organisations including members of KE
  - KE

**Universities**
- 18 institutions from across the world
  - C
  - Hanken

**Funders**
- 8 Organisations government and private
- FNS
- NSF
- Workwise

**Others**
- 8 Stakeholders and private companies
- Miro
- Zoom
- Mentimeter

*Interviews, discussions and workshops involving > 80 people
Multi-channels help every voice be heard*
Use-Case Canvases

Institutions

Goal: Comply with mandates and national level evaluations

Requirements:
- Interact with users (HR, software agents, etc.)
- Gather requirements
- Create outputs

Funders

Goal: Demonstrate openness of programmes and policies

Requirements:
- Access to evaluation
- Workflow integrations
- Different interaction types

National Research Organisations

Goal: Surface and promote openness

Requirements:
- Easy to find
- Different interactions and user types

Knowledge Exchange (KE)

MORE+ BRAINS
The openness profile reference model
What needs to happen

Our recommendations
The importance of community consensus

Avoid the standards/ taxonomy proliferation trap by working across stakeholders to create community buy-in

With apologies to Randall Munroe: xkcd.com
Taxonomies
Research workflows
We are not alone!
Our main recommendations

Overarching:
- Stakeholder summit
- Working group
- Sponsor

Specific stakeholders:
- **Funders**: drive technical investment, expand range of metrics and outputs
- **NROs**: standards, community governance, support best practices in CRISs/institutional repositories
- **PID providers**: shift towards more ‘workflow’ oriented approach, work on scalability, balance community interests among different stakeholders
- **Institutions**: invest in research information management capabilities - both technical and skilled staff, update evaluation criteria to include open contributions
Next steps

• The summit
• (How) do you want to become involved?

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