

Openness Profile:

Modelling Research Evaluation for Open Scholarship

SHARC Session 20 April 2021
Research Data Alliance, 17th Plenary, Edinburgh
Fiona Murphy & Phill Jones of MoreBrains





Who is Knowledge Exchange?

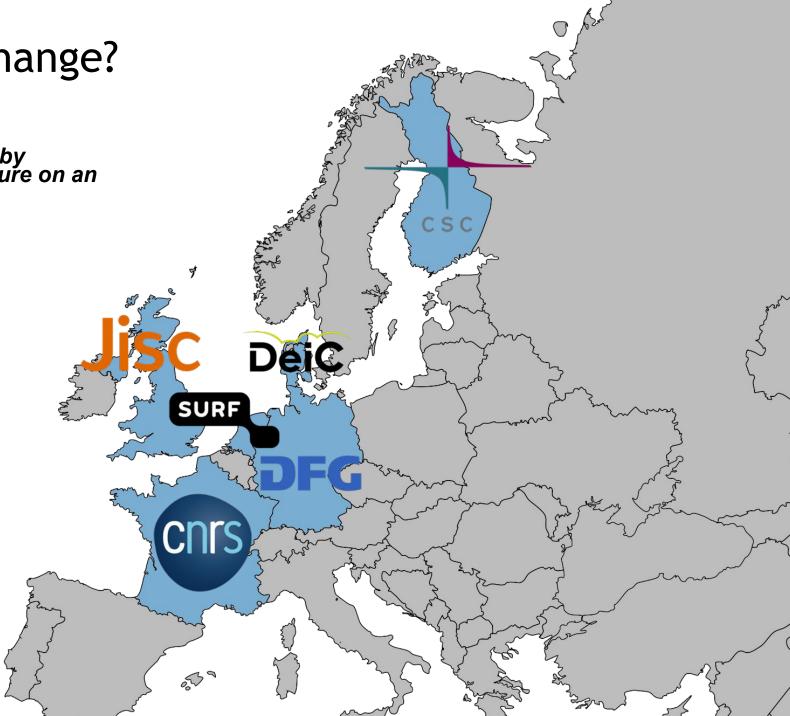
Mission: "To enable open scholarship by supporting an information infrastructure on an international level"











Outline

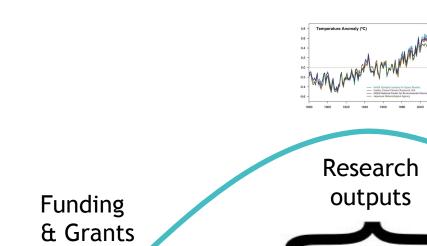
- Why is an Openness Profile needed, and what would it look like?
- A framework to incentivise open scholarship
- What needs to happen to make it a reality







Contribution and provenance across the scholarly value stream



- Data structures
- Research infrastructure
- Reports
- Computer programs
- Posters









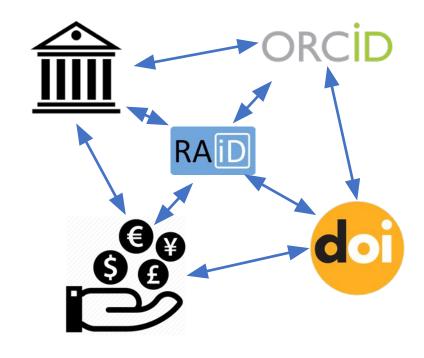
- Social benefit
- Tech transfer
- Economic impact
- Citations
- Evaluation framework contributions (EG REF)
- Research funding





Connections provide answers

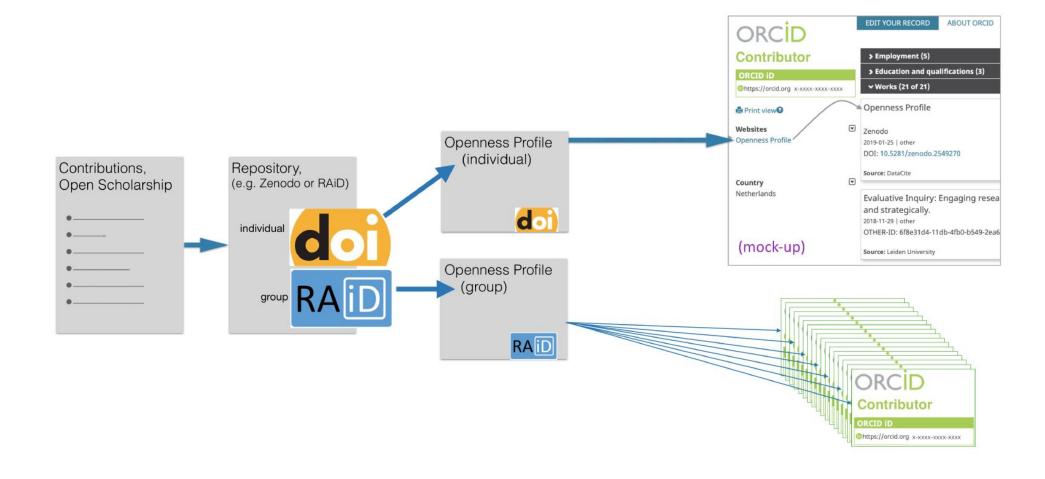
- Q. Supervisor: How well does my postdoctoral fellow make their analysis code available?
- A. Connect researcher profile with code repositories
- Q. Funder: What percentage of projects that we fund are consistently publishing data sets?
- A. Connect articles to projects to grants and objects in repositories
- Q. Researcher: Which institution has a culture of openness?
- A. Connect organisational IDs to repositories and researcher outputs







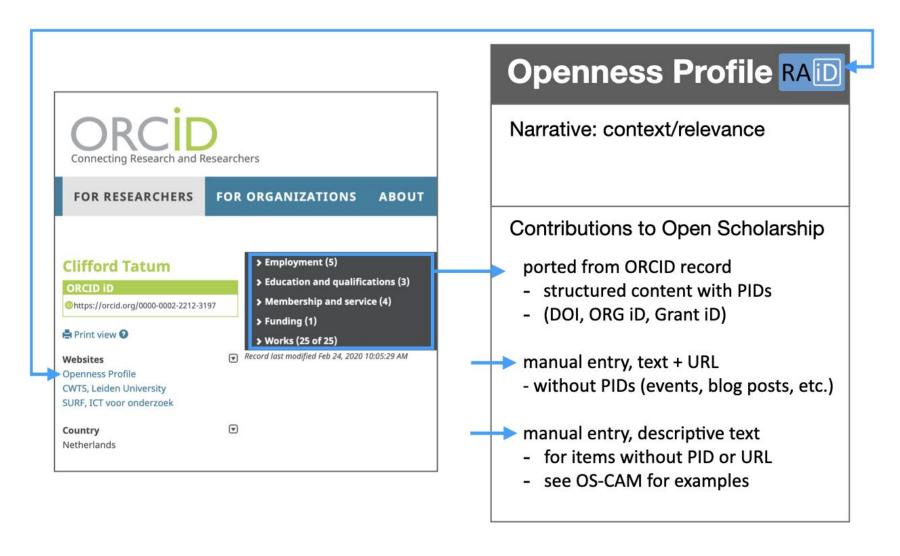
Openness Profile Workflow (concept)







Key integrations with existing PID systems









Project scope

Part 1

Part 2

Part 3

Expected outcomes



Semi- structured interviews





Group 1: PID Experts

ORCID Datacite Crossref

RAiD

Identify areas of cooperation for greater interoperability and automation

Plenary meeting including all stakeholders

Group 2: Stakeholders with potential use-cases

Funders inc. NWO

Institutions

Research orgs +consortia

Create a shared understanding of community validated use cases to drive further development

Group 3: Groups that have already made progress

OPERAS

U Helsinki

Curtin U

Share learnings and/or technology to build on ongoing work or pass on to other pioneers





18 months, 48 organisations, 80 people

PID providers









Publishers

5 Organisations including trade associations



National Research Orgs

5 Organisations including members of KE



Universities

18 institutions from across the world







Funders

8 Organisations government and private









8 Stakeholders and private companies





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







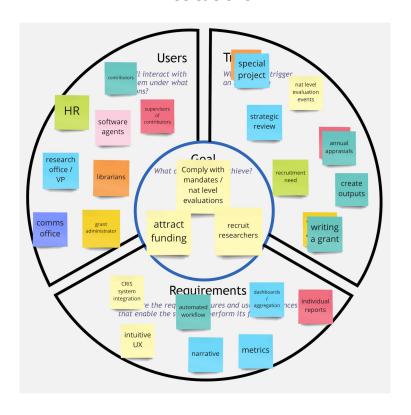




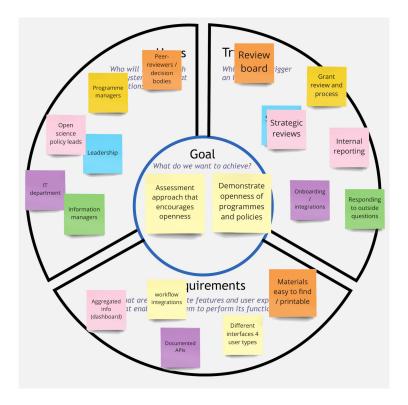


Use-Case Canvases

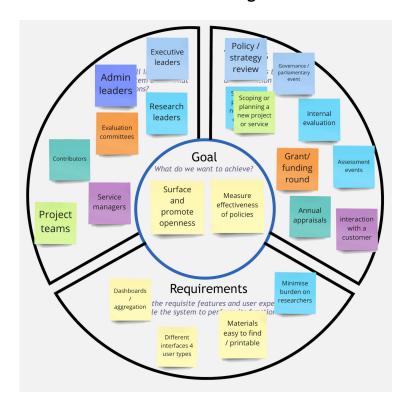
Institutions



Funders



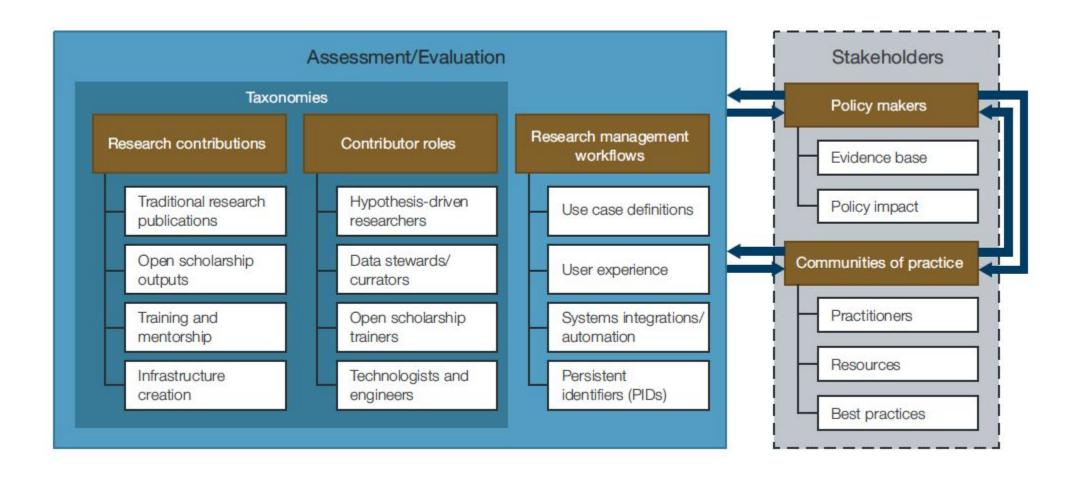
National Research Organisations







The openness profile reference model









The importance of community consensus

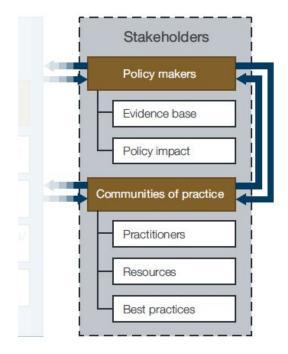
HOW STANDARDS PROLIFERATE: (SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC.)

SITUATION: THERE ARE 14 COMPETING STANDARDS.





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



With apologies to Randall Munroe: xkcd.com



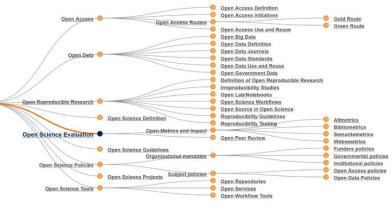


Taxonomies

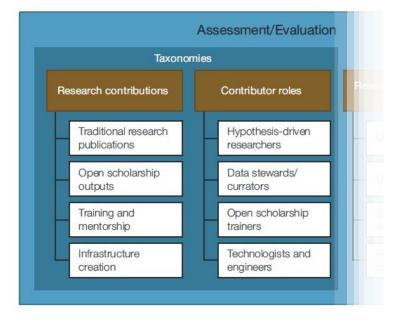








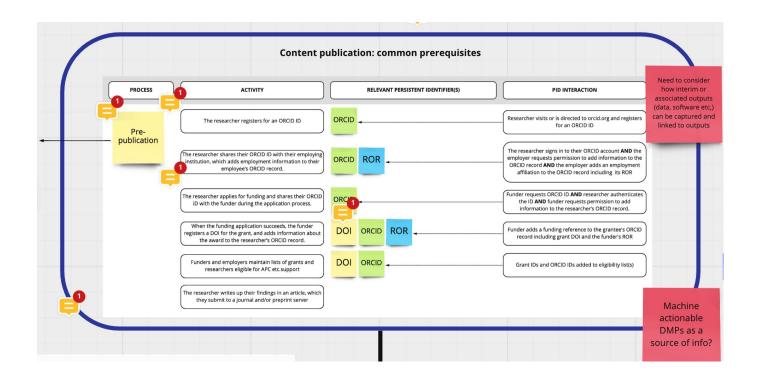


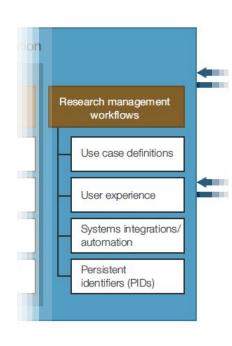






Research workflows









We are not alone!









Exploring Open Access eBook Usage





UNIVERSITÄT BIELEFELD



























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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Project Page: https://www.knowledge-exchange.info/event/openness-profile

