

Implications for Data Repositories in Enabling Open Science

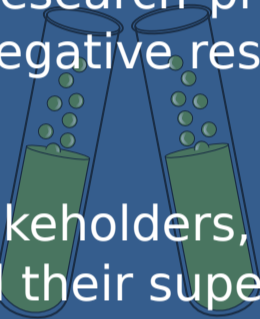
Dr Will Fyson Prof Simon Coles Prof Les Carr

As highlighted at OR2016, the repository community needs to move beyond Open Access to begin to accommodate Open Science. Data repositories are one tool for helping to enable the benefits of Open Science, but how they should be deployed to maximise their potential needs to be carefully considered...

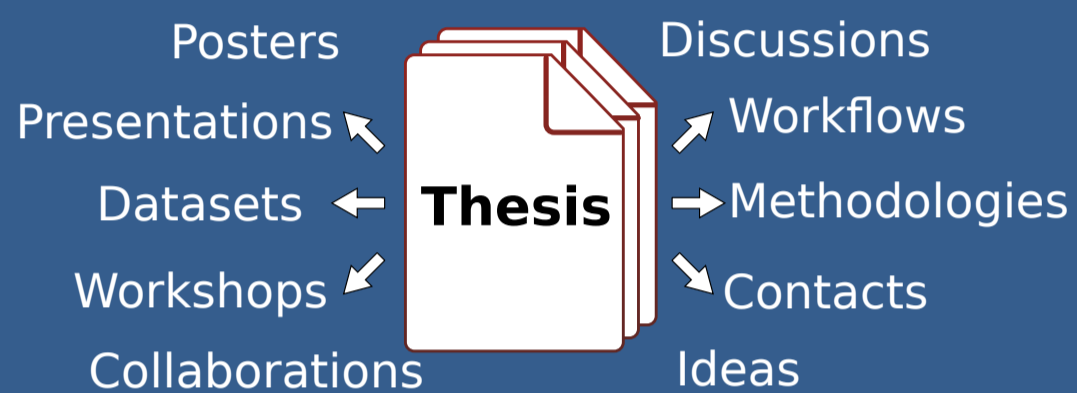
Open Science

There are many benefits to open science, from helping reproducibility through to more efficient research processes and the publication of negative results.

But to many stakeholders, such as researchers and their supervisors, the benefits are unclear. We need to understand how to promote new technologies — this requires understanding the interactions and motivations underpinning scholarly



Disaggregation



To investigate attitudes towards managing and sharing data, stakeholders were interviewed about the idea of disaggregation — extracting content from conventional scholarly artefacts such as journal articles and theses.

Thematic Analysis: Reputation and Workflows

Analysis of the interviews resulted in findings that backed up previous literature and informs recommendations for facilitating Open Science...

Reputation is the driving force in academia — high impact publications are the end goal

Funders require data management plans

Should avoid burdening researcher after publication



Data repositories should act as a knowledge management tool

Help researcher secure publications through good, open research practises

Data repository as knowledge management tool leads to more efficient labs and greater oversight

Challenges

- Granularity of permissions allowing flexible control over data access and sharing
- Data repository needs to be flexible and readily customisable
- How to transition from working data to openly publishable data...?