

Why should I waste my time with research data management?

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Metadata (structure)

- Who am I?
- Why are we here (and where is here)?
- Where do we want to go?
- Who (and what) can help us
- Conclusions/takeaways/discussions



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Why are we here (and where is here)?

- Digitization of scholarship
- (Conflicting) mandates
- Perverse incentives
- Scarce resources
- Etc.....



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What's our evidence?



Data Availability Project

Mandated data sharing policy resulted in more sharing but no more reproducibility.

Impact of an Intervention to Improve Compliance in PLoSOne, Dr Emily Sena and colleagues

“In the massively competitive tenure process, data is power.”
Mark Hahnel,
State of Open Data, Digital Science,
2019



Knowledge Exchange

Open Scholarship Programme



Where do we want to go?

- Automation of scholarly systems
- Aligned mandates
- Reduction in wasted work
- Wide participation



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What does it look like?

- Contributorship rather than authorship
- Range of semantically linked first class research outputs
- Range of research oriented careers – varied skills
- (Possibly) slower, but more reproducible, science



Who (and what) can help us

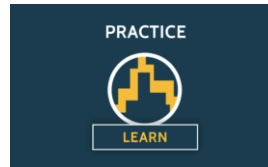
- Present company
- Research Data Alliance
- STM Association/publishers
- Funders: national, private, allied organizations
- Senior institutional administrators





Handbook of the Commons

- If you have to cut and paste, the commons is broken
- Versioning must be supported; an identifier should always resolve to the latest version
- People are objects in the commons too: Single sign-on via ORCID
- All scholarly objects should come with the ability to provide feedback, e.g., through annotations, discussions
- Assume people are drivers and not mechanics: tools should promote knowledge synthesis and creation
- Get rid of stupid: Knowledge producers should be producing knowledge, not formatting references (cut down friction)
- All research objects should come with and return machine-readable citation level metadata
- All links should be bidirectional
- Assume your tool/platform/content will be used with others!



Conclusions

- More 'research on research'
- Culture of sharing and re-use – from secondhand to 'up-cycling'
- All researchers need to be able to drive (and have somewhere to go)
- More cross-functional groups with better understanding of each others' expertise and role



Thank you!

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