



**Data
Schools**

Open and Responsible (Data) Science Citizenship

Recap of Lessons (1): Open Science and Responsible
Conduct of Research
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Open and Responsible (Data) Science Citizenship

● Track 1

- What is Responsible Conduct of Research (RCR)?
- What is Open Science (OS)?
- How do RCR and OS fit together?
- How can I integrate RCR and OS practices into my research?
- How can I start RCR/OS discussions in my home institution?

● Track 2

- How do RCR and OS fit into the broader concept of open and responsible (data) science citizenship?
- How do my daily research activities contribute to my identity as an open and responsible (data) science citizen?
- How can I, as a (data) science citizen, contribute to the broader ethical discussion on data science?
- How do I teach (data) science citizenship?

What is Responsible Conduct of Research?



Expanding the Reach of Responsible Research



Increase trust in science, don't waste public resources



Get constructive feedback



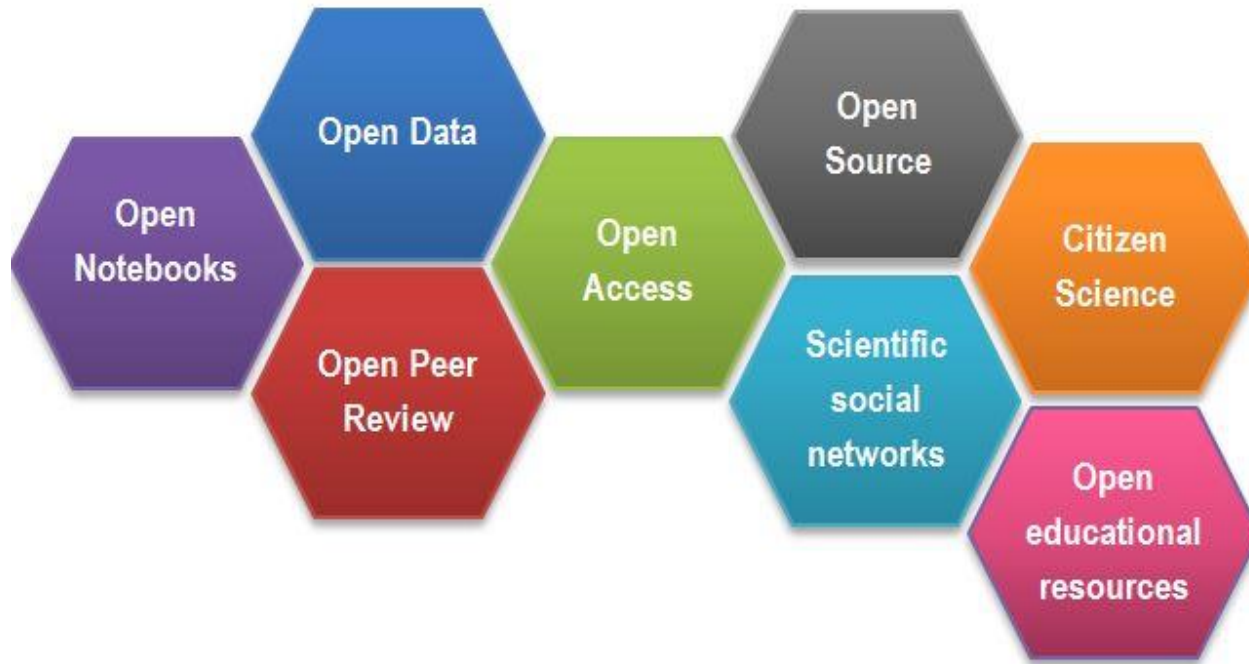
Be international and inclusive



Increase the speed of discovery

Pictures from freepik.com by @brgfx, @makyzz; flaticon.com by Icon Pond, Dimitry Miroliubov

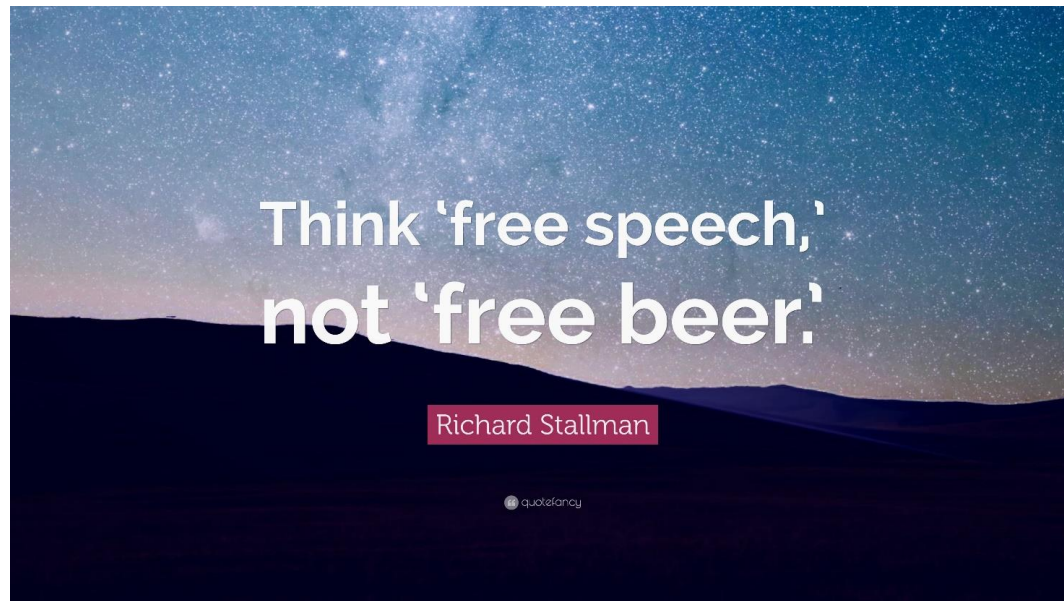
Open Science/Research



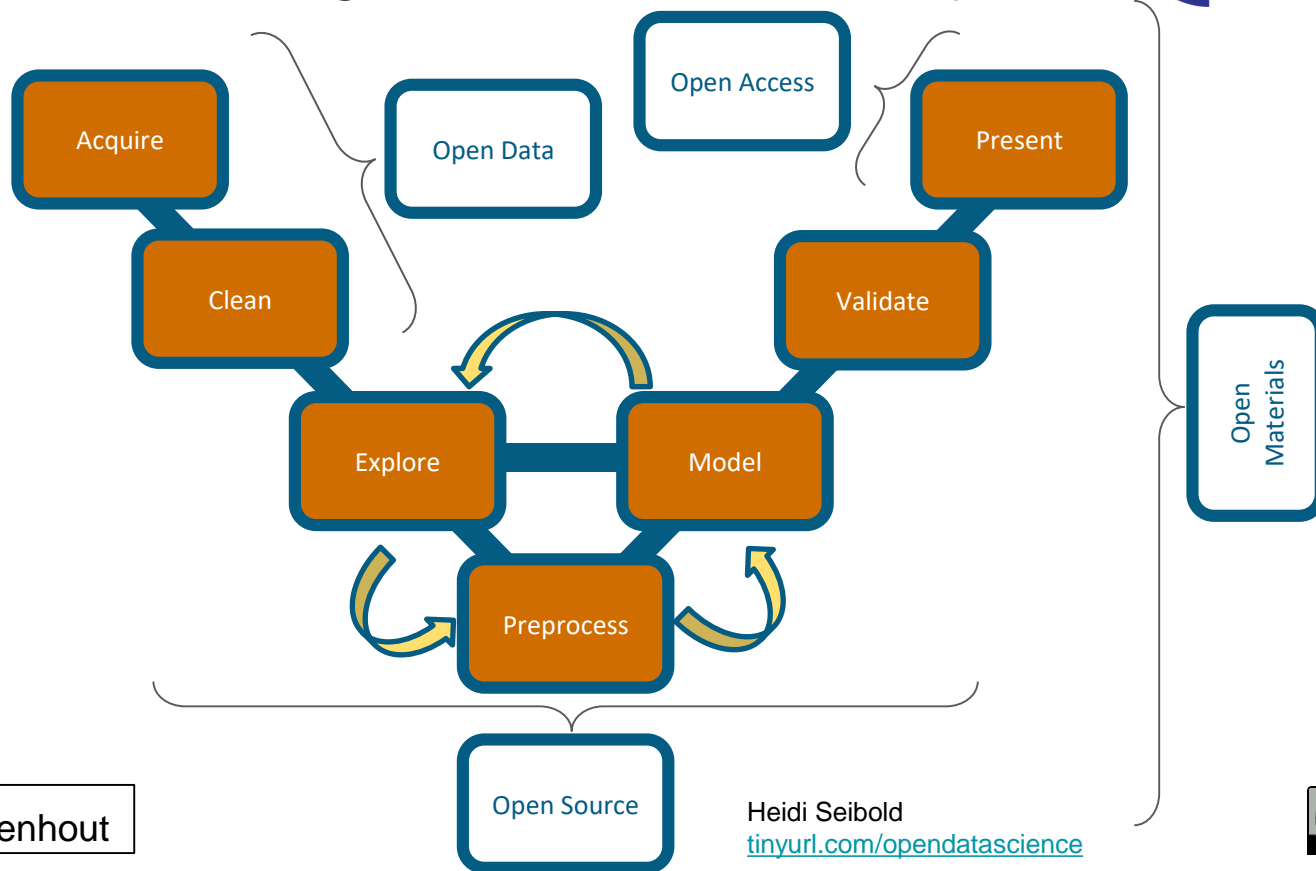
Openness as Libre not Gratis

Gratis versus Libre

"**Free**" means there is no cost, where **libre** means "at liberty", referring to the freedom to modify source code. **Libre** doesn't mean **gratis**. **Libre** can mean available. **Libre** can mean without restriction



Openness Through the Research Cycle



Openness as an Extension of Responsibility

Open Lab Books:

Transparency in research practices

Sharing and openness: enhance transmission of values

Open Peer Review:

Transparency in peer review leads to better dialogue and collegial behaviour

Open Access: Improves availability of research outputs

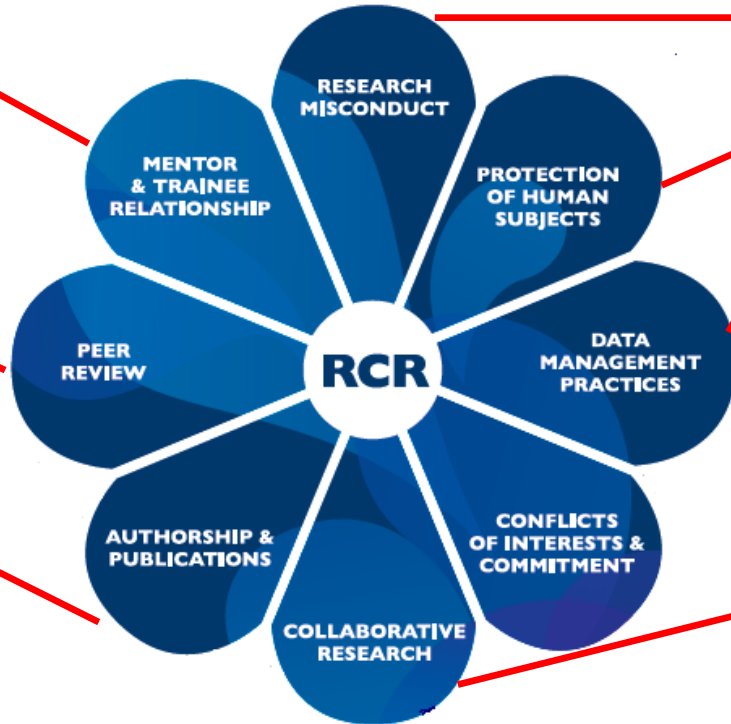
Open publishing: leads to improved citations, credit and collaboration

Open Data and Open Methodologies:

Improve transparency and reproducibility of research

Open Science Tools:

Improve collaboration





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