

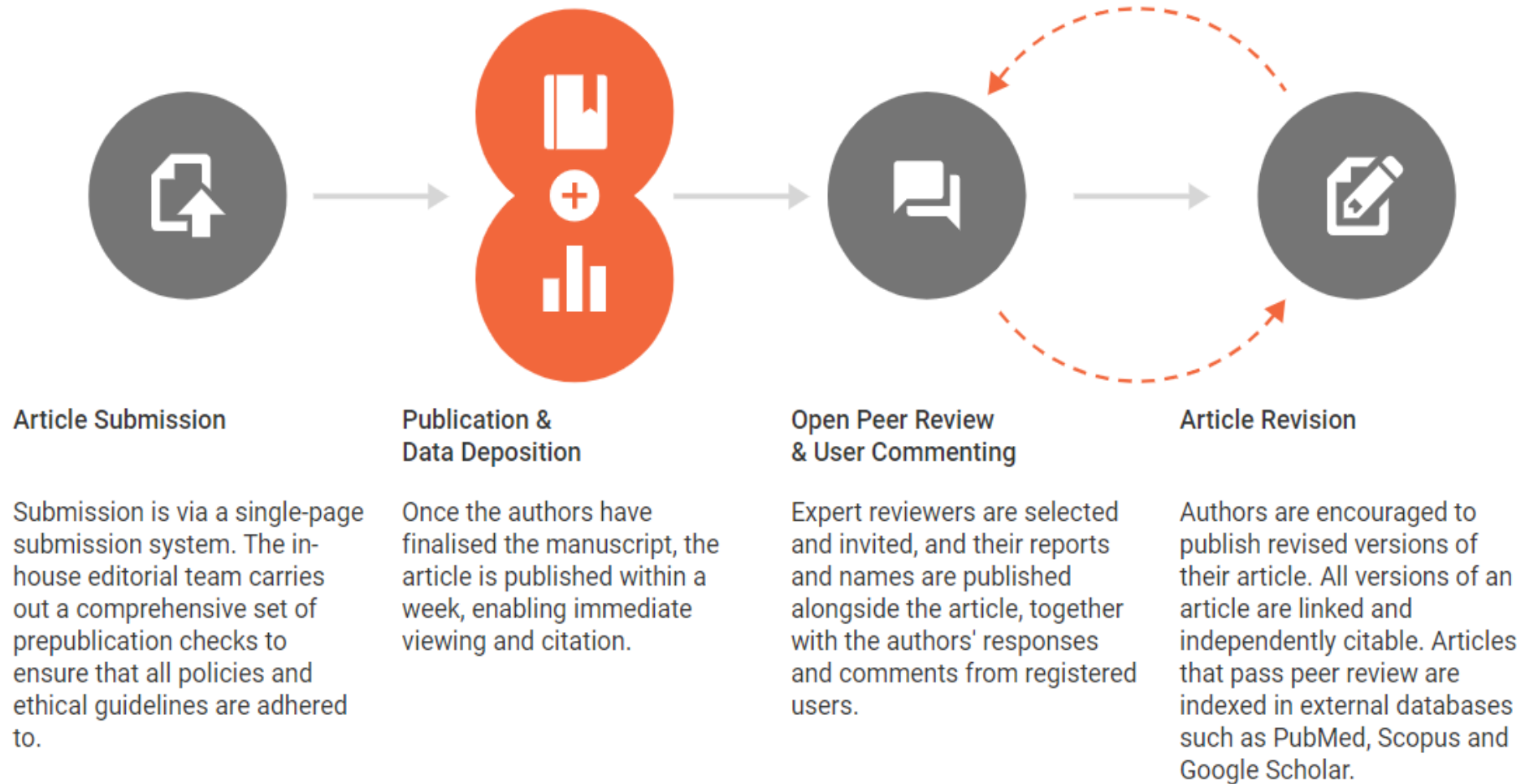


Open Science: catch phrase, or a better way of doing research?

Dr. Rebecca Grant, Head of Data & Software Publishing, F1000

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The F1000 publishing model





Brief Reports



Case Reports



Case Studies



Clinical Practice
Articles



Correspondence



Data Notes



Editorials



Genome Notes



Living Systematic
Reviews



Method Articles



Opinion Articles



Policy Briefs



Registered
Reports



Research Articles



Reviews



Software Tool
Articles



Study Protocols



Systematic
Reviews

How do researchers work in the Open Science paradigm?

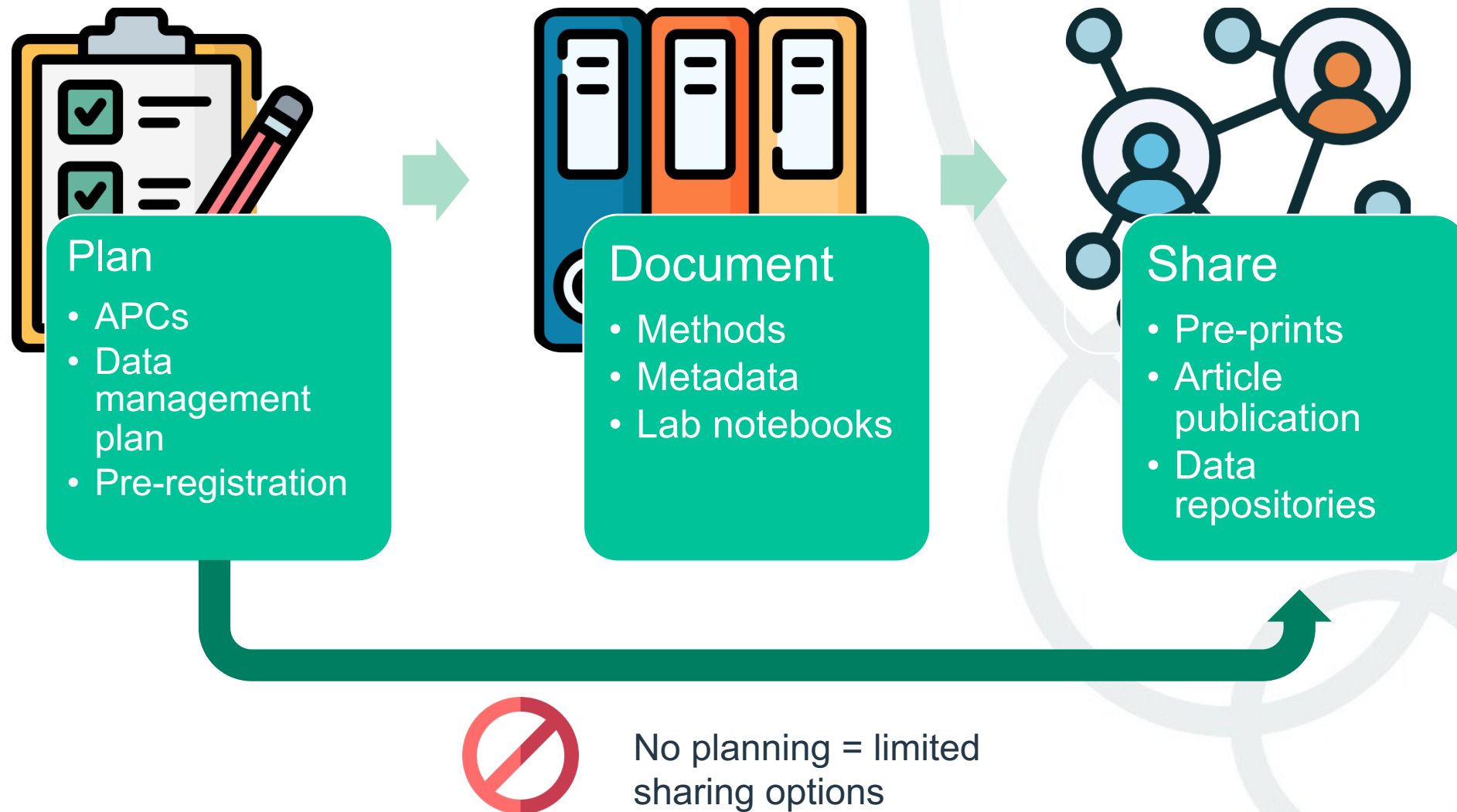
“Open science practices should [be] omnipresent in all stages of the research process from the kernel of an idea to the production of a final research report..”

Hagger, ‘Developing an open science ‘mindset’,’ *Health Psychology and Behavioral Medicine* (2022), <https://doi.org/10.1080/21642850.2021.2012474>

“Awareness of [Open Science] practices is particularly low at early stages of the scientific life cycle. This lack of awareness can lead to ‘path-dependencies’, wherein historical decisions influence the suite of possible future outcomes”

Gownaris et al. ‘Barriers to Full Participation in the Open Science Life Cycle among Early Career Researchers,’ *Data Science Journal* (2022), <http://doi.org/10.5334/dsj-2022-002>

Open Science as a linear workflow

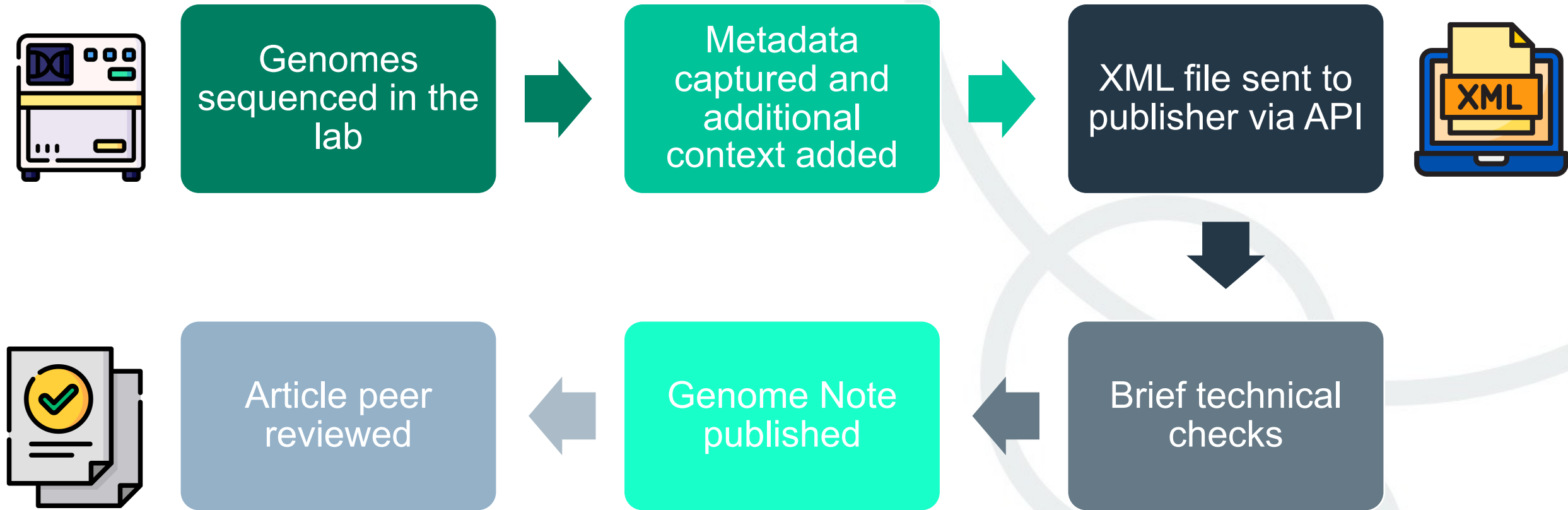


Building Innovation in Open Science Publishing

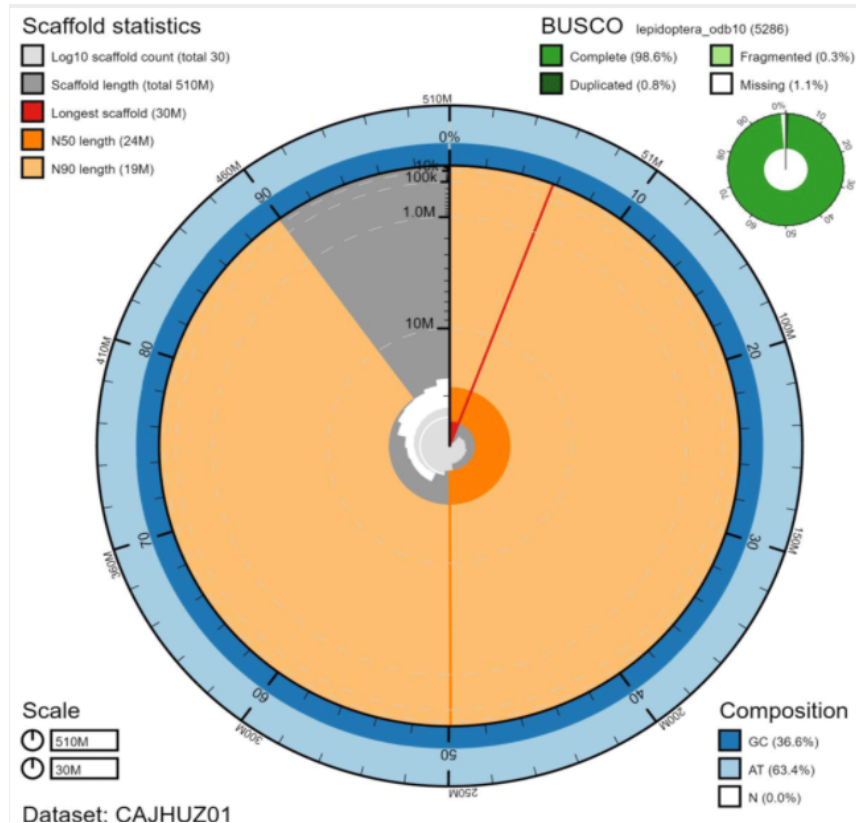


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Automated publication from lab to publishing platform



Automated benchmarking to support peer review



- Automated benchmarking report provides metrics on continuity, structural accuracy, base accuracy, functional completeness and chromosome status.
- Supports peer reviewers to assess the genome note.
- Available in article figures for all future readers.

Innovation and collaboration in publishing

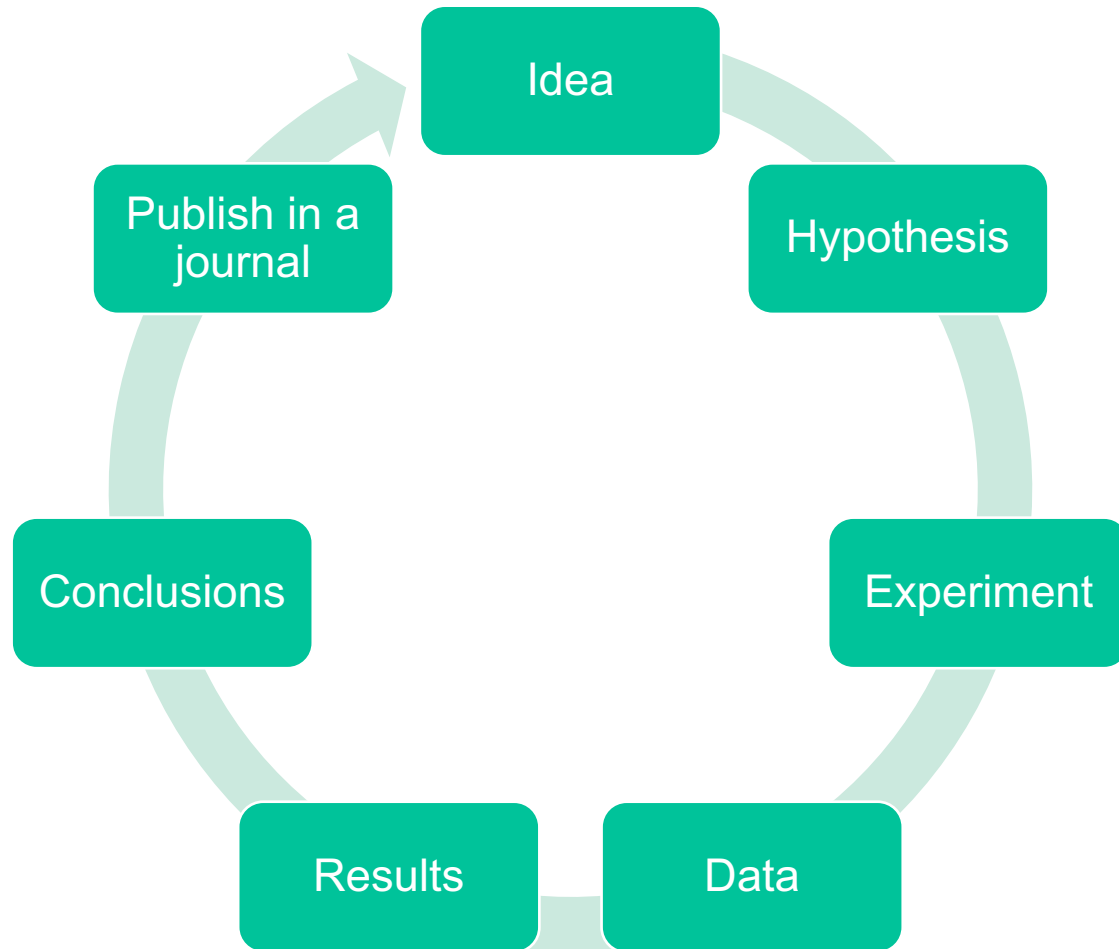


Industry
and
community

Technical

Policy

Developing new Open Science publishing workflows



- Opportunities for automation of processes
- Technical solutions can create less friction in publication workflows (e.g. data repository integration with journal editorial submission systems)
- Stakeholders include publishers, policy-makers, researchers, technical providers
- Researcher awareness from beginning of a project is important

Thank you

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