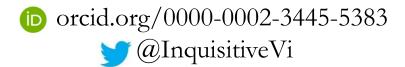
Early Career Researcher's view on Open Science

Vinodh Ilangovan









What do Early Career Researchers Want?

- Do great research.
- A good environment to do science/research.
- Possibilities of realistic career progression.
- Research funding to realize research goals.

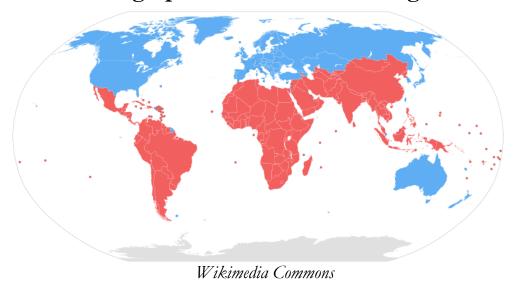
Open practices accelerate discoveries



Open practices support inclusivity



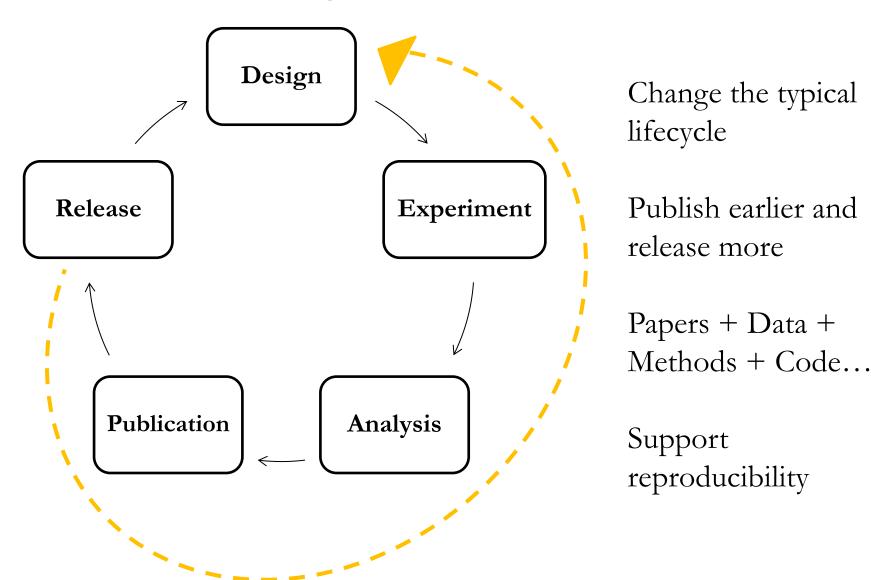
Geographical skew of knowledge



Open Science is a trait for Good Science



Open all stages of Research Cycle



Epistemic Caveat

Doing 21st century science



Documenting with 20th century tools



Communicating the 17th century way

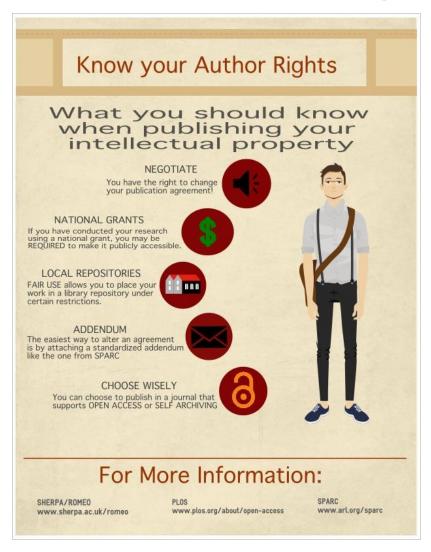


Force11.org

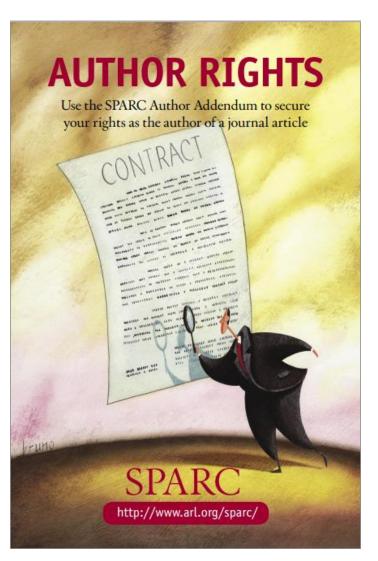
Evaluating in a primitive fashion



Know your rights as an author



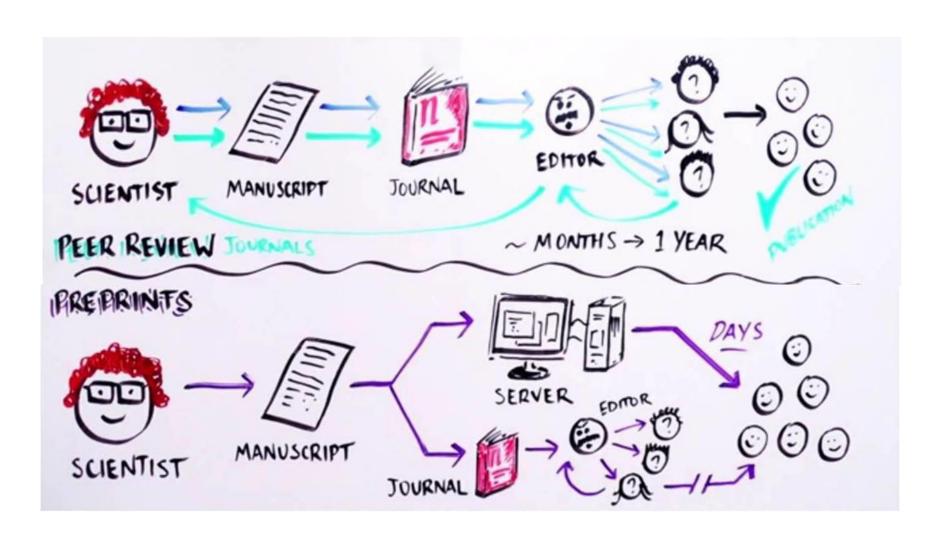
http://openaccess.commons.gc.cuny.edu/2014/03/07/you-know-what-you-write-but-do-you-know-your-rights/



http://www.sparc.arl.org/resources/authors/addendum



Peer review and Preprints



Advantages of Preprints



Stars are aligning for Preprints

















AgriXiv
PaleorXiv
PsyArXiv
SocArxiv
energXiv
LawArxiv

Change in the culture of Peer-review



https://prereview.org/

JIF are religious!



Illustration by John R. McKiernan, CC-BY whyopenresearch.org/gallery

A variety of descriptive metrics



Article level metrics



Researcher level metrics





H-index Google Scholar i10-index

Is Research evaluation objective?



http://www.ascb.org/dora/

For Research Institutions

- When hiring and promoting, state that scientific content of a paper, not the JIF of the journal where it was published, is what matters
- Consider value from all outputs and outcomes generated by research

For Researchers

- Focus on content
- Cite primary literature
- Use a range of metrics to show the impact of your work
- Change the culture!

Science without Open is an anecdote

COMMENT OPEN ACCESS

When will 'open science' become simply 'science'?

Genome Biology 2015 **16**:101 https://doi.org/10.1186/s13059-015-0669-2

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