



PLOS

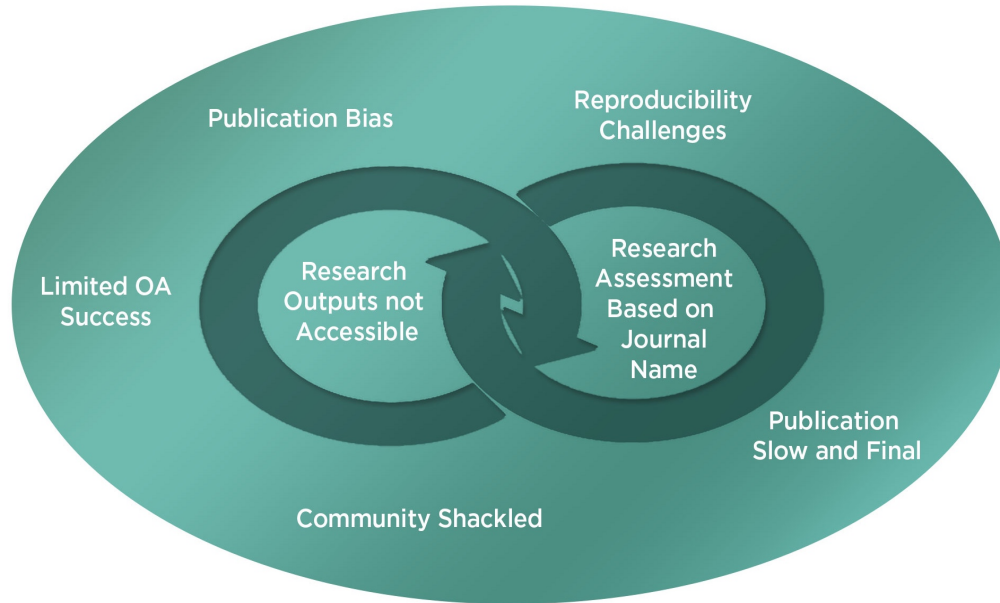
Deconstructing the
Prestige Economy:
Our Role in Catalyzing Change

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Fiesole Retreat, April 4, 2019

The Twin Problems of Assessment and Access





Four core concepts

1. Embracing open science
2. New “signals of trust”
3. Publishing as a process, not an event
4. Investment in the future of research

Facilitate publication of more research outputs

FAIR and robust linking infrastructure (Standards)

Categorization that impacts mode of assessment

1. Open Science

2. Communities

Future proof change: inspire and support pockets of future adopters

Use prestigious journals as levers

3. Business Models

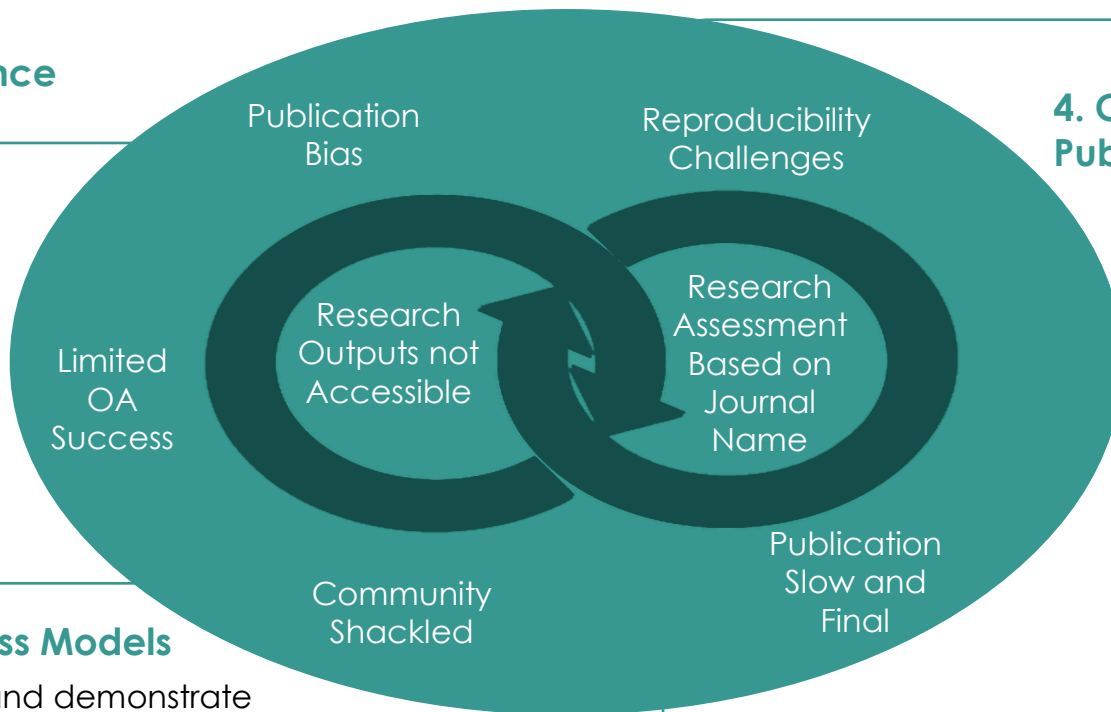
Develop and demonstrate new OA models

4. Changes to Publishing Process

Apply **new signals of trust** to articles, other outputs, individuals

Publishing as a Process: at different stages of research cycle

Living articles (Versions)



Data Availability Declines Over Time

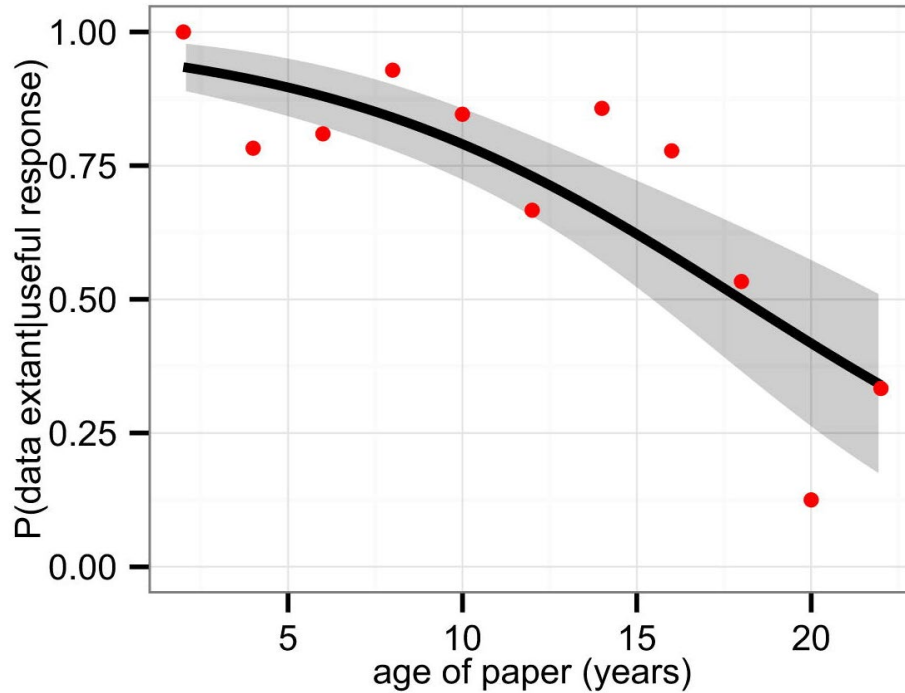


Image: Nature doi:10.1038/nature.2013.14416

Probability of finding the data associated with a paper declined by **17% every year**

Vines, Timothy et al. "The Availability of Research Data Declines Rapidly with Article Age." *Current Biology* (June 1, 2014)

ALMOST ALL DATA
LOST 10-15 YRS
AFTER PUBLICATION

Results of PLOS policy

>110,000

papers published
with a data
statement at
PLOS

<0.1%

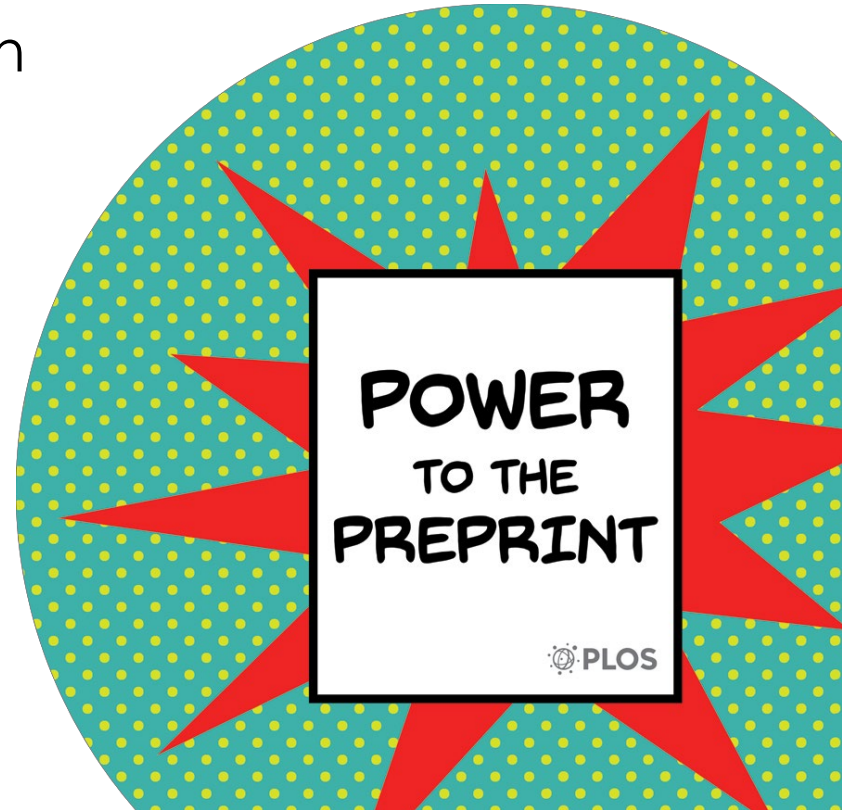
of submissions
rejected due to
authors'
unwillingness or
inability to share
data

~33 MILLION

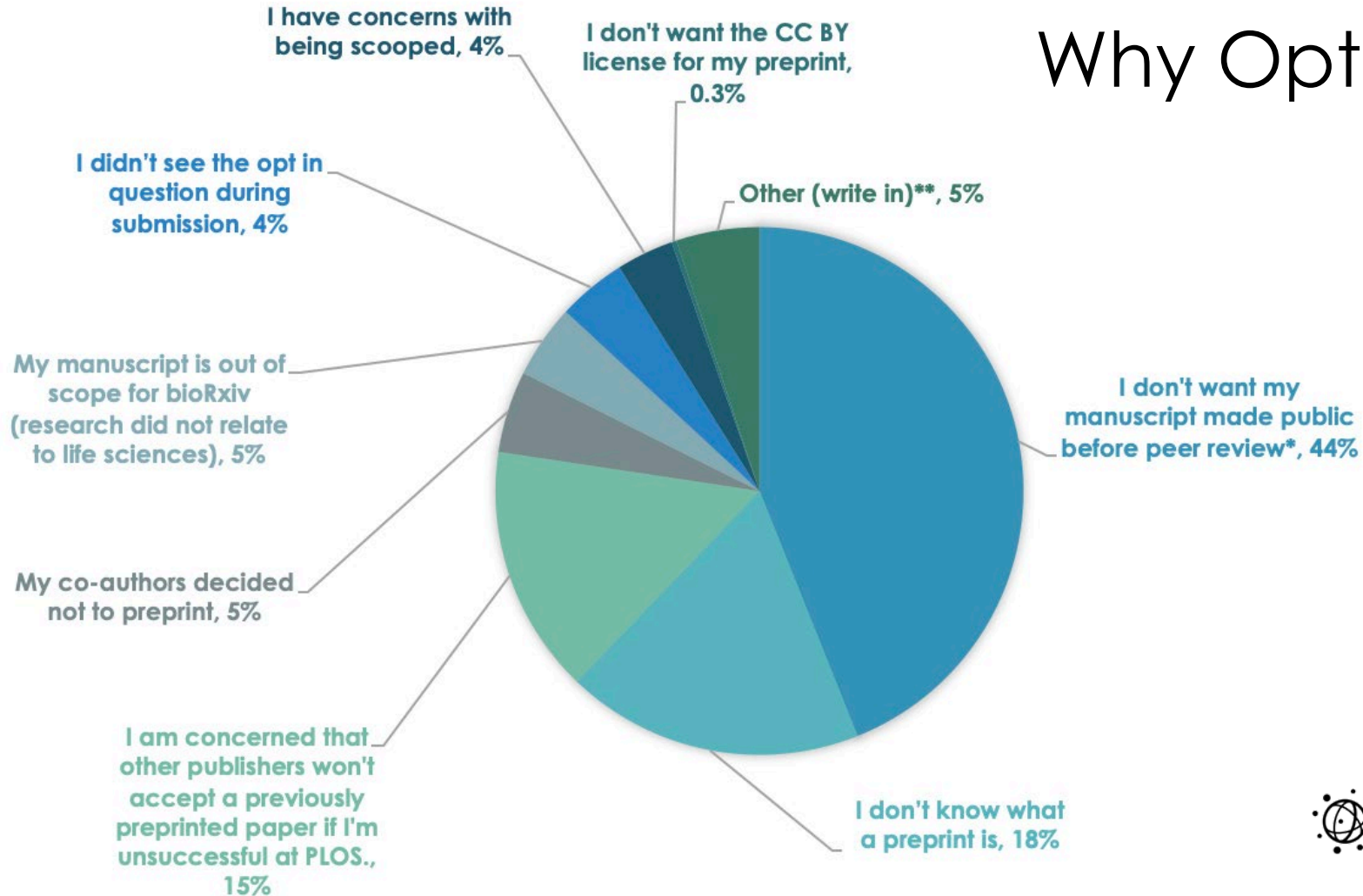
views &
downloads over
past 12 months
via Figshare
alone

Preprints at PLOS

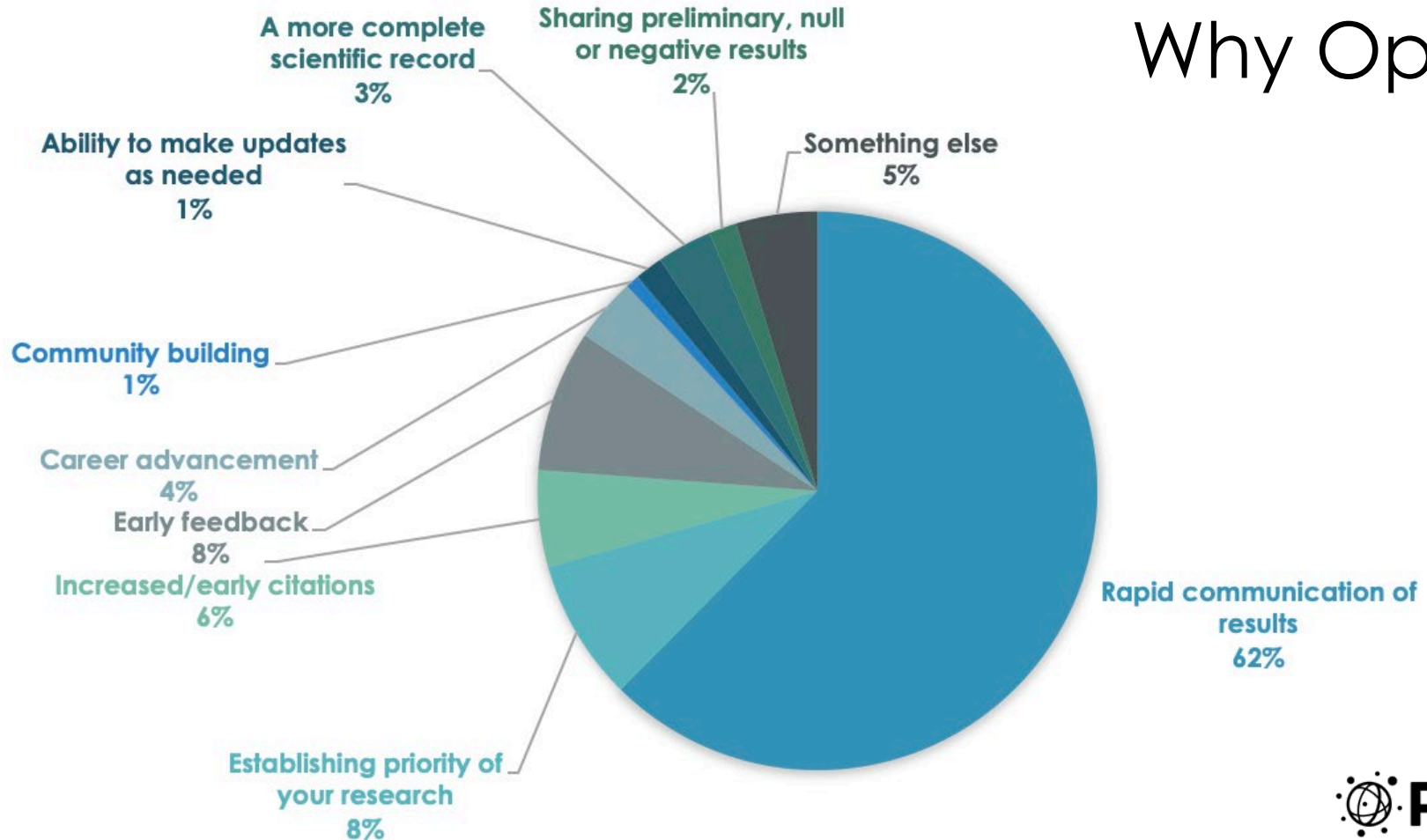
- Key to earlier sharing of research
 - Especially so for ECRs
- Uncoupling dissemination and assessment
- Partnership with bioRxiv launched in March 2018
 - ~4,500 PLOS-originated preprints in year 1
 - Representing 15% of eligible papers



Why Opt Out

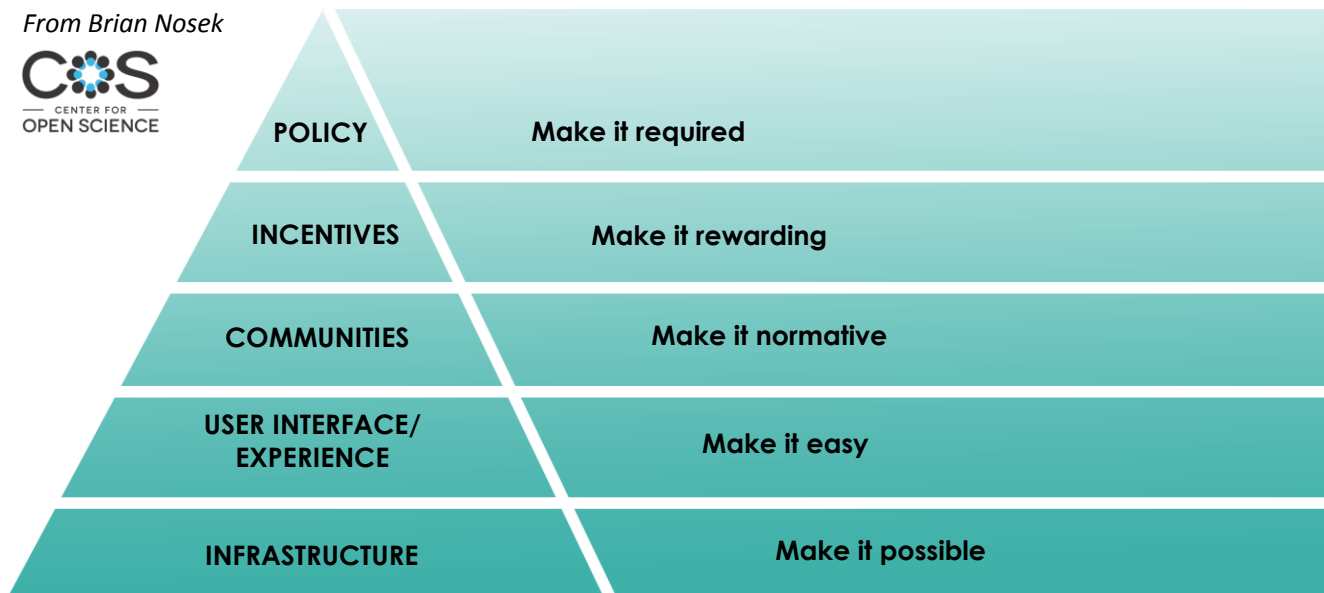


Why Opt In



Changing a Research Culture

From Brian Nosek





Put the researcher at the center

“This changes EVERYTHING. Well done,” tweeted Veronique Miron at the University of Edinburgh.

“I think this is the first time a scientific journal has ever made me cry,” tweeted Van Eck. “This will change the career trajectory for many a disillusioned scientist. Thank you.”



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