What Counts: research communication in the new age

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Covid-19 is a forcing function for open science
Funders are immersing themselves in publishing

Are you ready?
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- Wider funder adoption
- Also influencing funders not yet signed on
- Encoding journal policies in a journal selection tool
- Telling authors where to publish
New Funding Initiative: $161M over 3 years

Policies:
- PlanS, including CC-BY
- Mandatory preprint
- Open science
- Considering new forms of credit
Research Output Management (ROM):

- Track and reward open sharing of all research outputs
- Credit beyond the journal article and JIF
- Supporting infrastructure
- Required in publications
Funder Investments:

- Transitioning publications to OA
- Building up alternatives to traditional publishing
Aligning Incentives
Policy and monitoring shifting away from final article and JIF

- NASEM Roundtable
- Open Research Funders Group (ORFG)
How are you evolving?

Are your publishing programs offering solutions?
Or firmly part of the problem?
PID graph

- Persistent identifiers for all people and outputs
- Connecting PIDs to provide maps
- Network of outputs that evolves as the work continues

Introducing the PID Graph by Martin Fenner (DataCite) & Amir Aryani (Swinburne University)
The emerging data landscape

♫ Comply with new guidelines and metrics
♫ Generate reports for funders and institutions
Implement tools to:

- help authors make data more open
- help funders and institutions track and monitor policies

http://dataseer.ai/
Reinvent the article
Publish less but better
Add real value

Executable Research Articles (ERAs)
Publishing that reflects the research process

- **Facilitated living reviews** can replace static one-time articles
- Research communication that reflects collaboration and the evolving research story
Peer Review Reimagined

- Open up peer review
- Publish reviews
- Accept outside reviews
- Give credit for reviewers
Embrace new forms of attribution

- Implement the CRediT taxonomy
- Over 30 publishers have
- Recognize that attribution is not yet credit
Innovate with credit

- Investigate new metrics
- Reward behaviors that improve science

**Incentives: The C-Score**

**Measuring Collaboration**

- Content Sharing: 98 (Average: 51)
- Interactivity: 45 (Average: 43)

**Average**

143
An action plan

_estimators

Coming soon to a publication near you!

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**A New Research Economy**

*Socio-technical framework to transform research communication*

Sarah Greene, Rapid Science; Laurel Haak, Ronin Institute and Mighty Red Barn; Kristen Ratan, Stratos

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**Abstract**

Journal articles have been the gold standard for research and scholarly communication. Specifically, articles in high-impact journals. But, like global trade, tying in to a fixed standard limits wealth distribution and innovation. It is time for the academic community to honor credit for contributions that reflect and drive collaborative innovation.
Thank you

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