Changing a Research Culture

- Policy: Make it required
- Incentives: Make it rewarding
- Communities: Make it normative
- User Interface/Experience: Make it easy
- Infrastructure: Make it possible
ecosystem

UNIVERSITIES

PUBLISHING

FUNDERS

SOCIETIES
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- Communities
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- Policy

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TOP Guidelines

1. Data citation
2. Design transparency
3. Research materials transparency
4. Data transparency
5. Analytic methods (code) transparency
6. Preregistration of studies
7. Preregistration of analysis plans
8. Replication
Some TOP Signatory Organizations

- AAAS/Science
- American Academy of Neurology
- American Geophysical Union
- American Heart Association
- American Meterological Society
- American Society for Cell Biology
- Association for Psychological Science
- Association for Research in Personality
- Association of Research Libraries
- Behavioral Science and Policy Association
- BioMed Central
- Committee on Publication Ethics
- Electrochemical Society
- Elsevier
- Frontiers
- MDPI
- Nature-Springer
- PeerJ
- Pensoft Publishers
- Public Library of Science
- The Royal Society
- Society for Personality and Social Psychology
- Society for a Science of Clinical Psychology
- Ubiquity Press
- Wiley
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Diagram:
- Infrastructure
- User Interface/Experience
- Communities
- Incentives
- Policy
Signals: Making Behaviors Visible Promotes Adoption

Kidwell et al., 2016
Registered Reports

http://cos.io/rr

Design -> Collect & Analyze -> Report -> Publish

PEER REVIEW

http://cos.io/rr, Committee Chair: Chris Chambers
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Societies Shape Community Norms

1. Conference Programming
2. Society Magazines and Newsletters
3. Awards
4. Webinars and training events
5. Journal policies and good practice recommendations and white papers
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Browse Recent Registrations  See more

Local conditions explain variation in plant phenology within species
Margaret Kosmala

The Role of Framing Effects, the Dark Triad and Empathy in Predicting Behavior in a One-shot Prisoner's Dilemma
Paul Michael Deutchman, Jess Sullivan

Promoting School Belongingness and Academic Performance: A Multisite Effectiveness Trial of a Scalable Student Mindset Intervention
Geoffrey Borman, Jon Baron

Does Practicing Cognitive Reappraisal Enhance Impulse Inhibition during Subsequent Risk Taking?
Joao F. Guassi Moreira, Emilla Ninova, Jennifer Silvers

On the role of lower- and upper-bounded contexts in realizing scalar inferences
Stephen Politzer-Ahles, Edward Matthew Husband
Case Example: Psychology

1. Policy: TOP adoption (APS)

2. Incentives: Badges, 18 journals (APA, APS); Registered Reports (APS)

3. Community: Persistent coverage in society magazines (APS, APA); Prominent conference programming; Training sessions/videos (APS)

4. Infrastructure: Data repository on OSF (APA)
Societies can...

1. **Policy**: Become a TOP signatory
2. **Incentives**: Journal partner to pilot badges and Registered Reports
3. **Community**: Symposia at society meetings; Webinars/trainings; Open science stories in society magazine
4. **Infrastructure**: Partner for data/materials repository

Brian Nosek
nosek@virginia.edu

Slides available: [https://osf.io/r9v3p/](https://osf.io/r9v3p/)

Take a picture