

The Secret Life of Science

Responsible Research and Reproducibility
Transparency and Trust

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Executive Director (US)



ripeta

Founder & CEO

Trust



Responsible Science

How does the publishing
ecosystem influence
scientific trust?

Badge

Signal of Legitimacy



Badge

Signal of Legitimacy



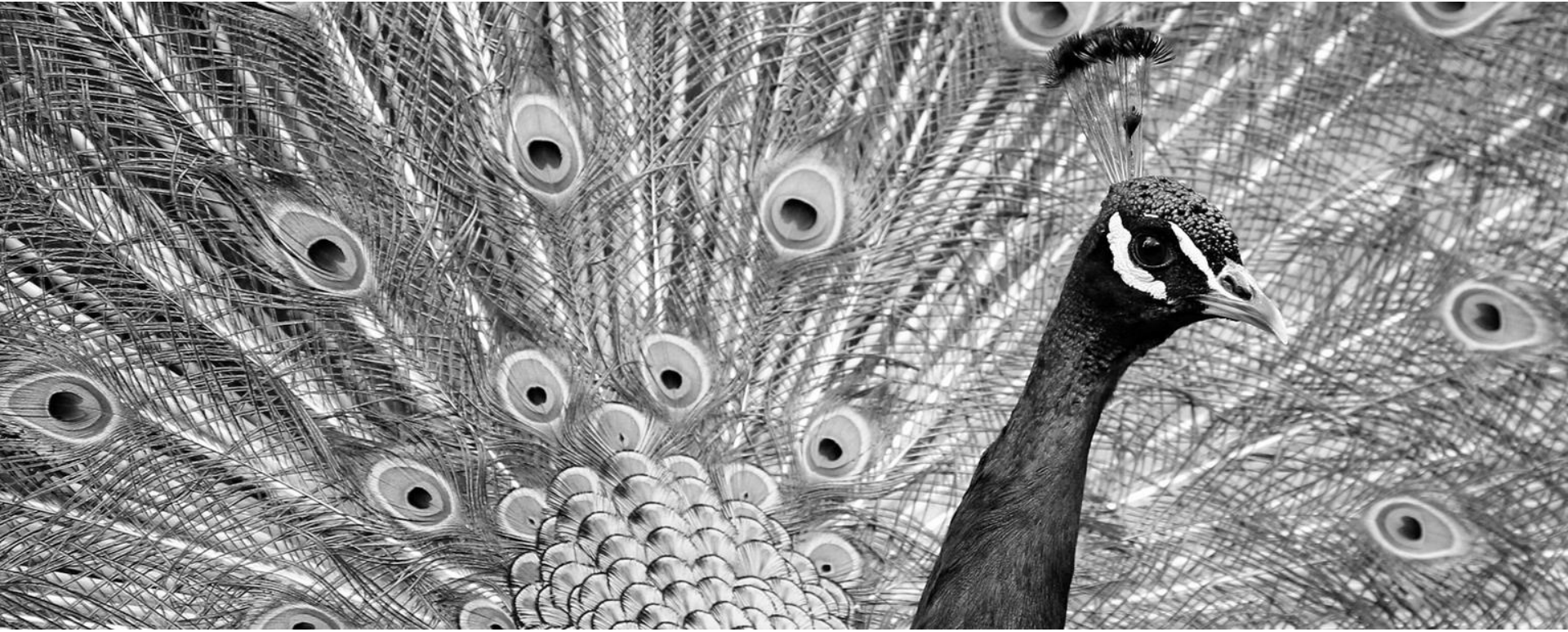


Journals and Publishers

Handshake

Signal of Agreement





Peer Review



Protocol Trust as a Societal Contract



Methods

Transparency as a Solution

Reproducibility

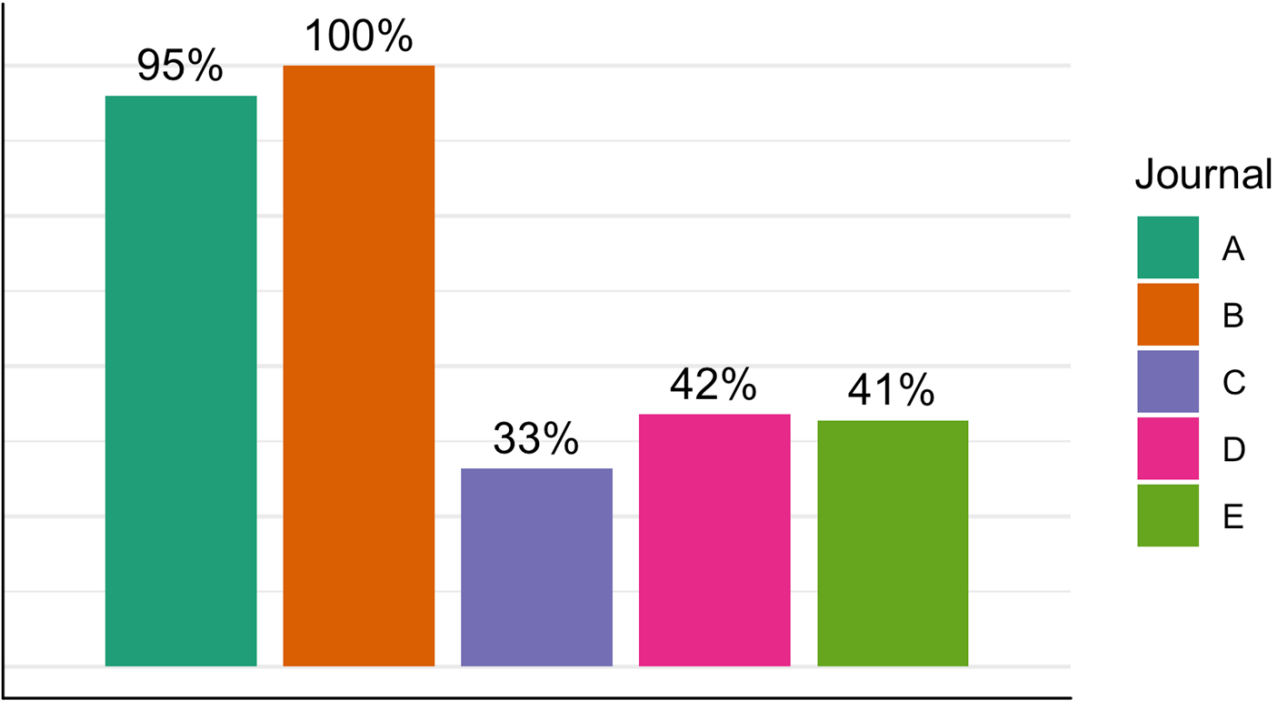
Data

Code

Software

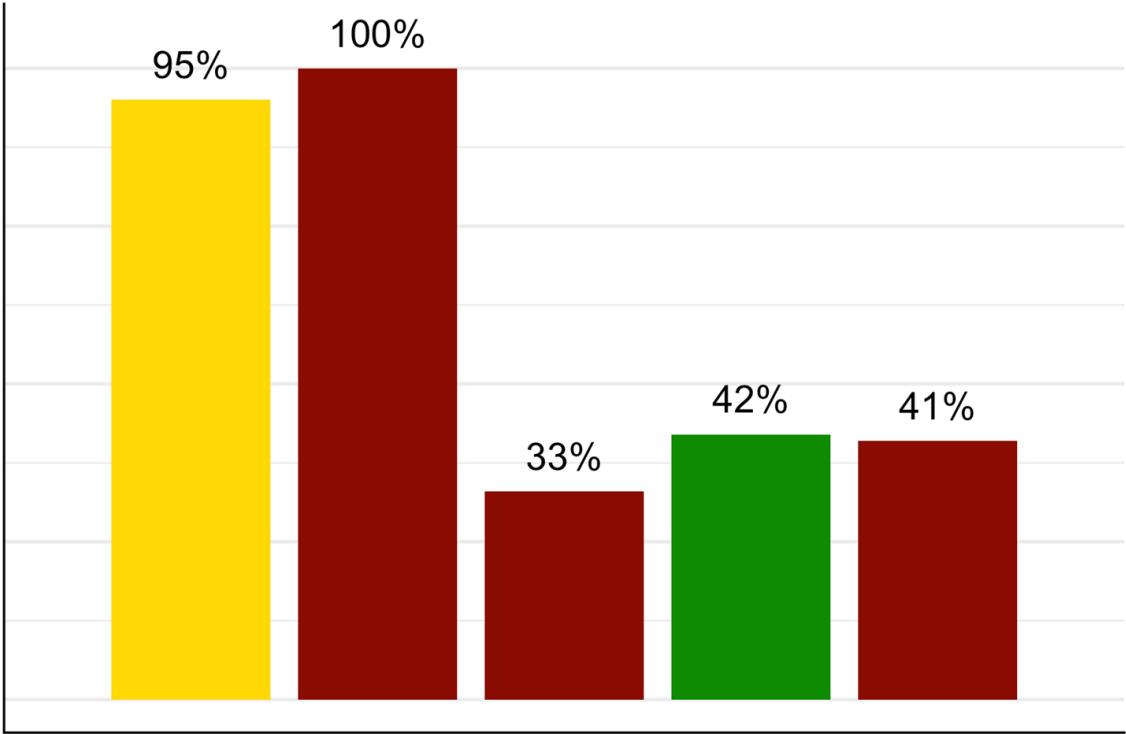
Data Availability Statements

RipetaResults



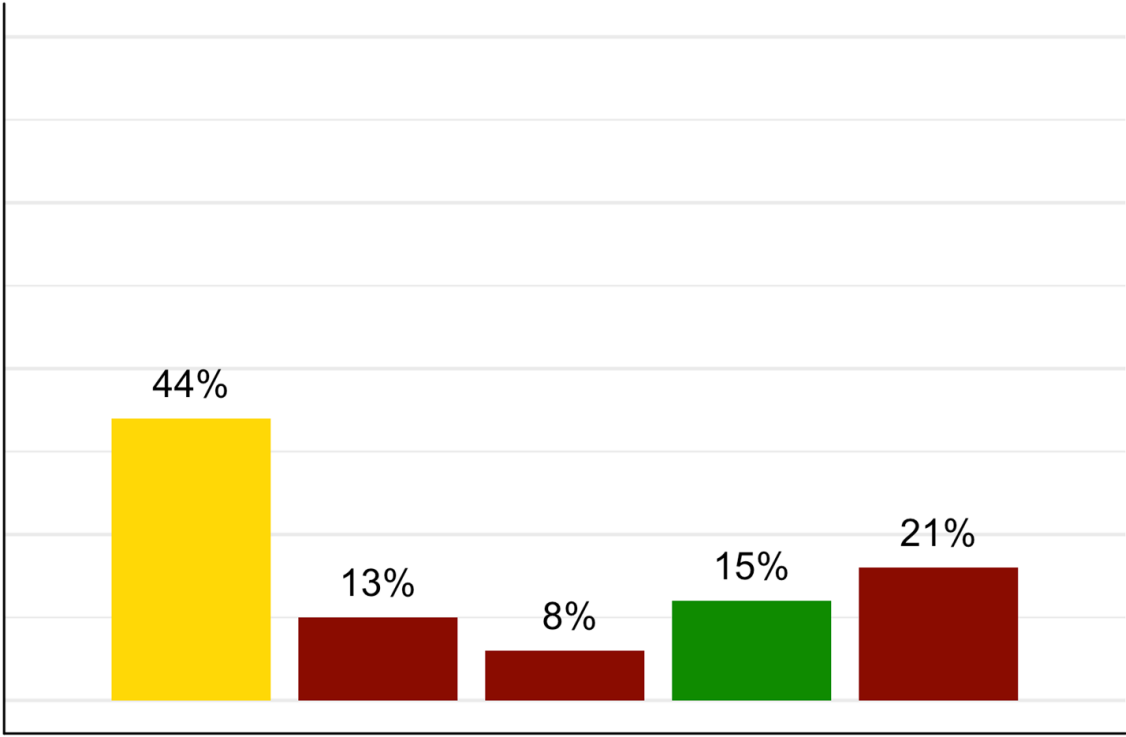
Data Availability Statements

RipetaResults

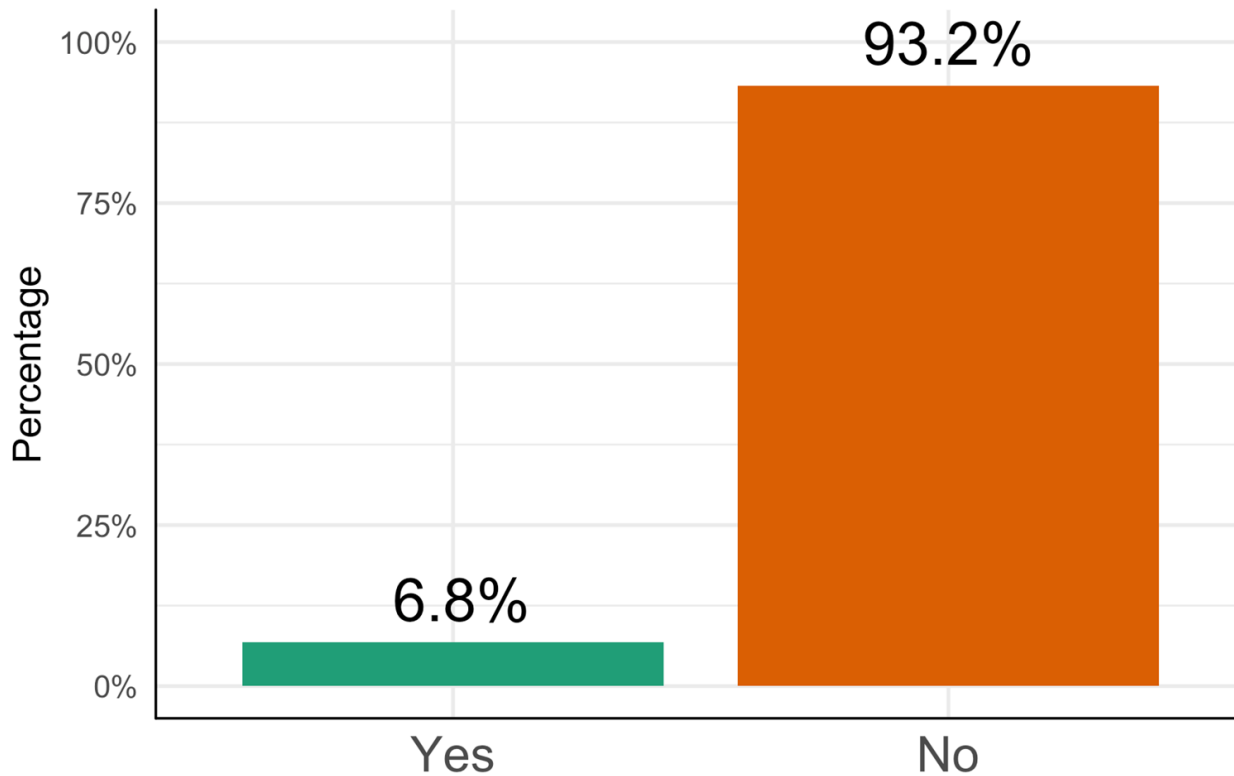


Availability of Data

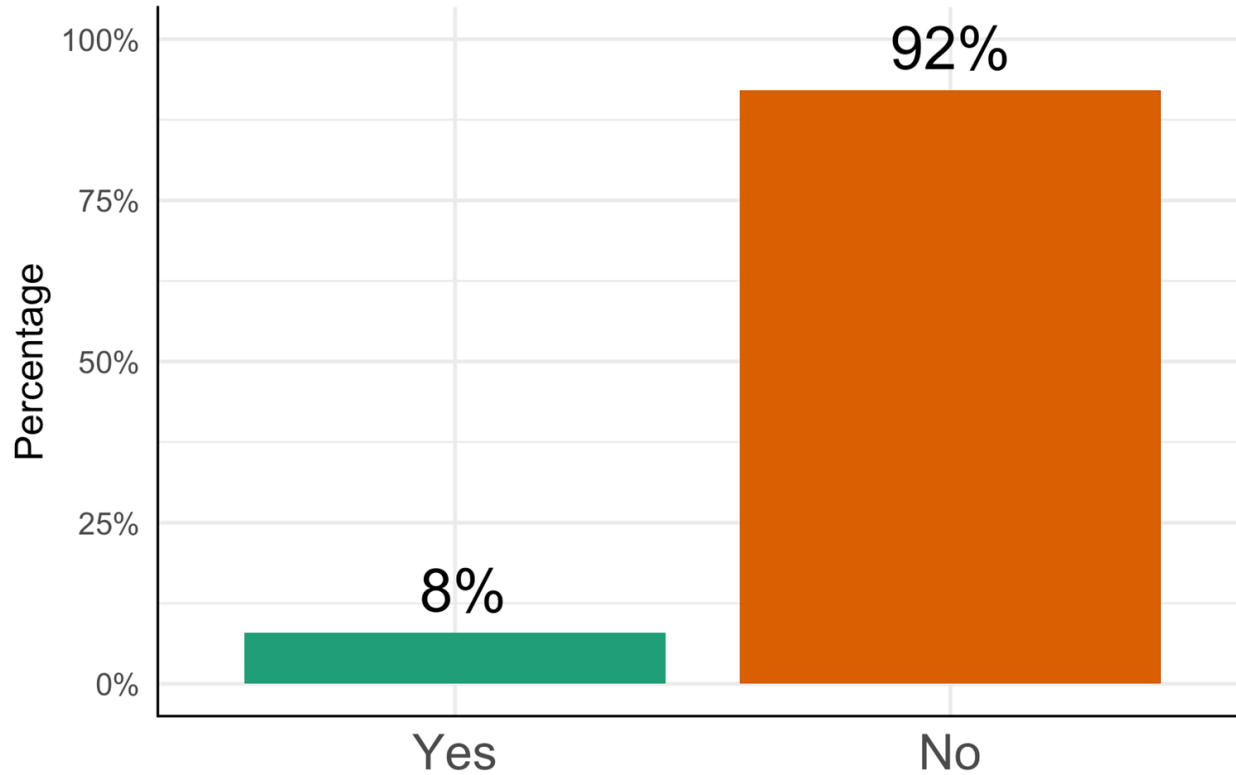
RipetaResults



Analysis Code Shared



Analysis Software Stated



Innovation

Improving the **reproducibility** of science
with **minimal burden** on scientists and
those evaluating research.

US Environmental Protection Agency

Strengthening Transparency in Regulatory Science

EPA Proposed Rule

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 30

[EPA-HQ-OA-2018-0259; FRL-9977-40-ORD]

RIN 2080-AA14

Strengthening Transparency in Regulatory Science

AGENCY: Environmental Protection Agency (EPA).

ACTION: Supplemental notice of proposed rulemaking.

SUMMARY: This supplemental notice proposes clarifications, modifications and additions to certain provisions included in the April 30, 2018 Strengthening Transparency in Regulatory Science-notice of proposed rulemaking (83 FR 18768). This notice proposes definitions for “reanalyze,” “independent validation,” “data” and “models” and clarifies that the proposed rule applies to all data and models underlying pivotal science used to support decision making. In this notice, EPA is also proposing alternate approaches to the public availability provisions for data and models that would underly decisions. Finally, EPA is proposing 5 U.S.C. 301 as sole authority for taking this action.

DATES: Comments must be received on or before [*insert date 30 days after date of publication in the Federal Register*]

Good science is science that can be replicated and independently validated, science that holds up to scrutiny. That is why we're moving forward to ensure that the science supporting agency decisions is transparent and available for evaluation by the public and stakeholders.

- Andrew Wheeler

EPA Rule - Leaked Document

- Data/models made publicly available to be valid applies to *all* studies
- Applies retroactively
- Weighing option

*The [EPA], however,
declined to share a copy of the updated proposal...*

- Washington Post

Defense or Offense

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