

A bid to commercialize a rare natural blue—ethically p. 1100

Beryllium bonding in a crystalline compound pp. 1106 & 1147

Changing transcription over the life span of *Drosophila* p. 1145

Science

\$15
16 JUNE 2023
SPECIAL ISSUE
science.org

AAAS



LIGHT
POLLUTION

Behind the Scenes at the Science Journals

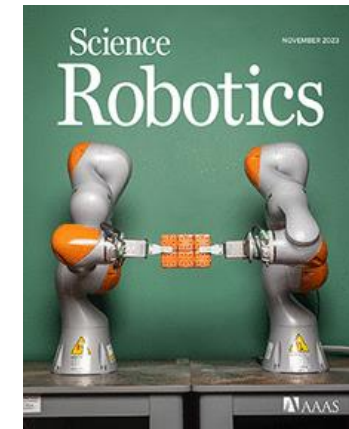
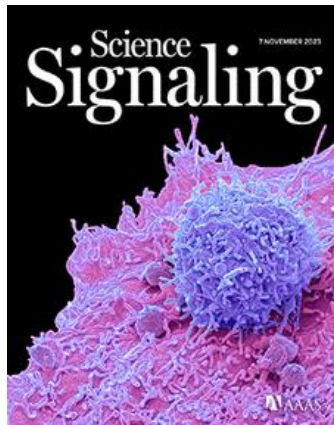
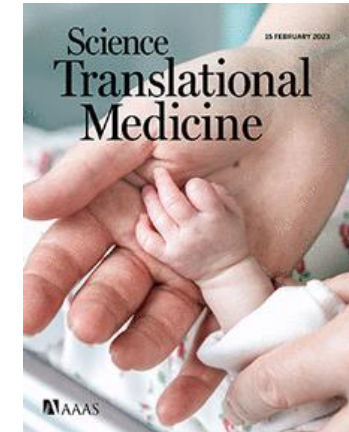
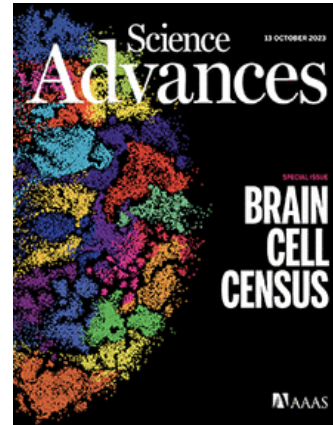
Valda Vinson, PhD
Executive Editor, *Science Journals*

Published by



A boldly inclusive, mobilized, and global scientific community that ignites, enables, and celebrates scientific excellence and science-informed decisions and actions

The *Science* Journals



Communicating with clarity

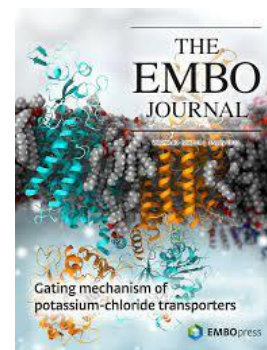
“Scientists can’t expect to get their message across to nonscientists if they can’t get it across to each other.” Holden Thorp





bioRxiv
THE PREPRINT SERVER FOR BIOLOGY

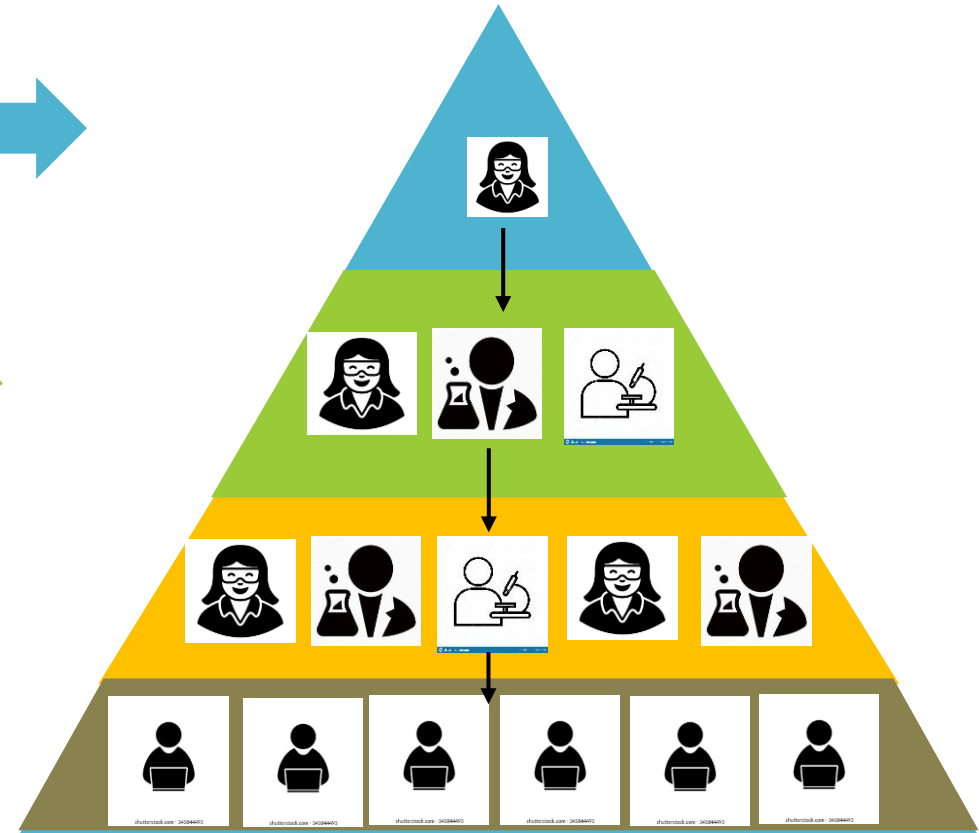
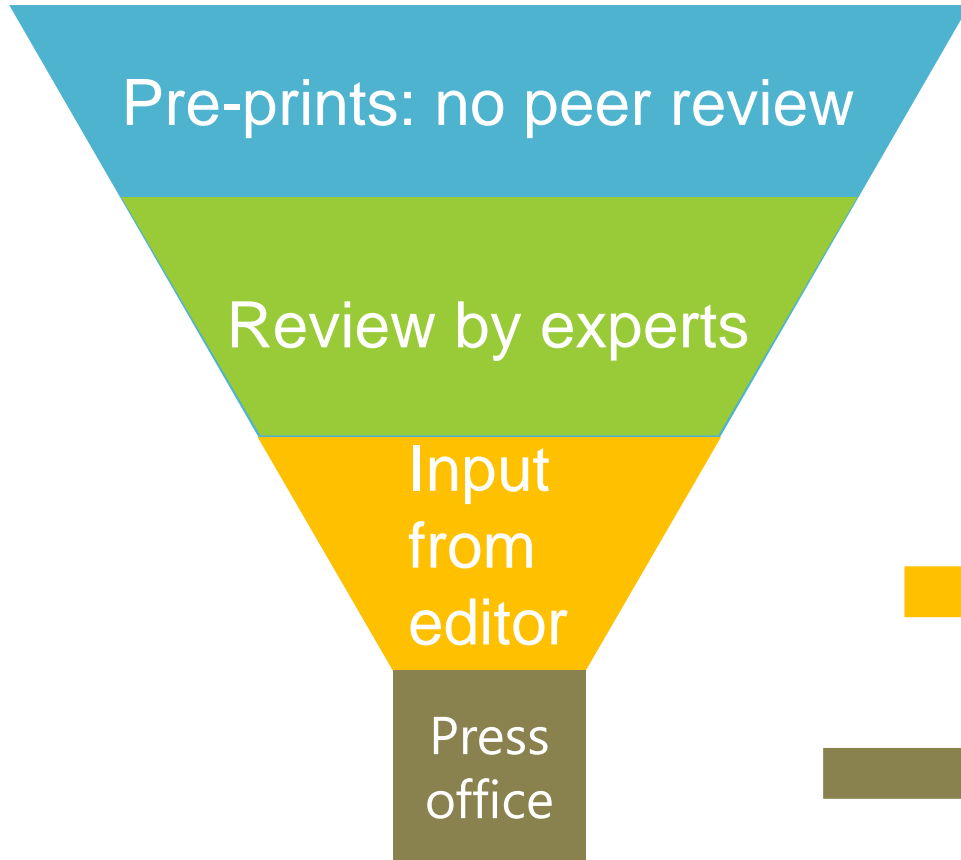
medRxiv
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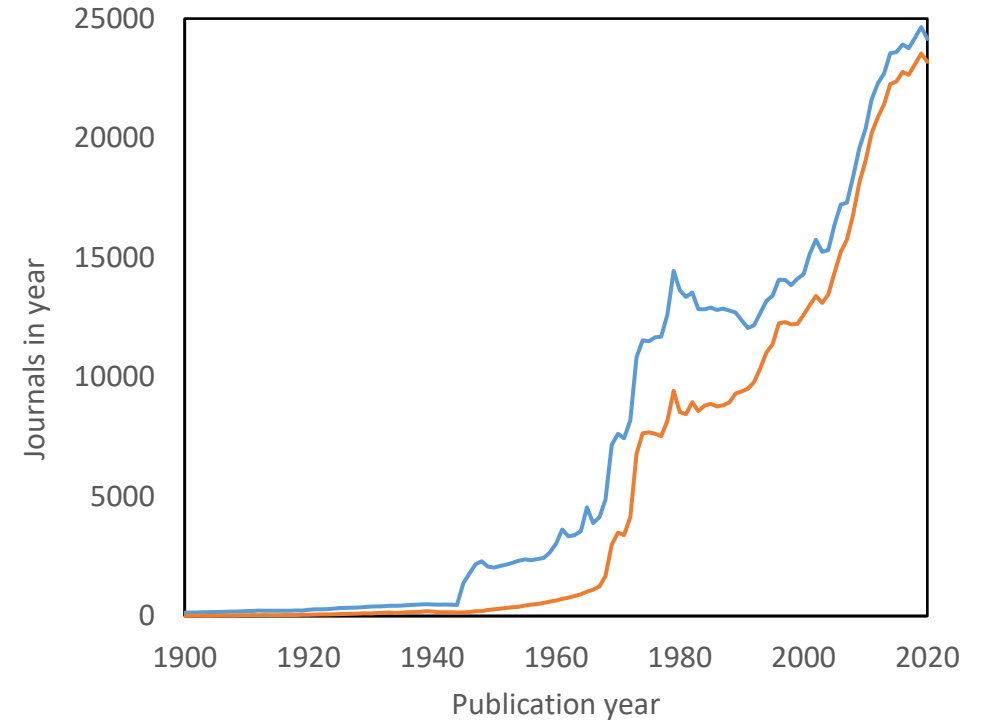
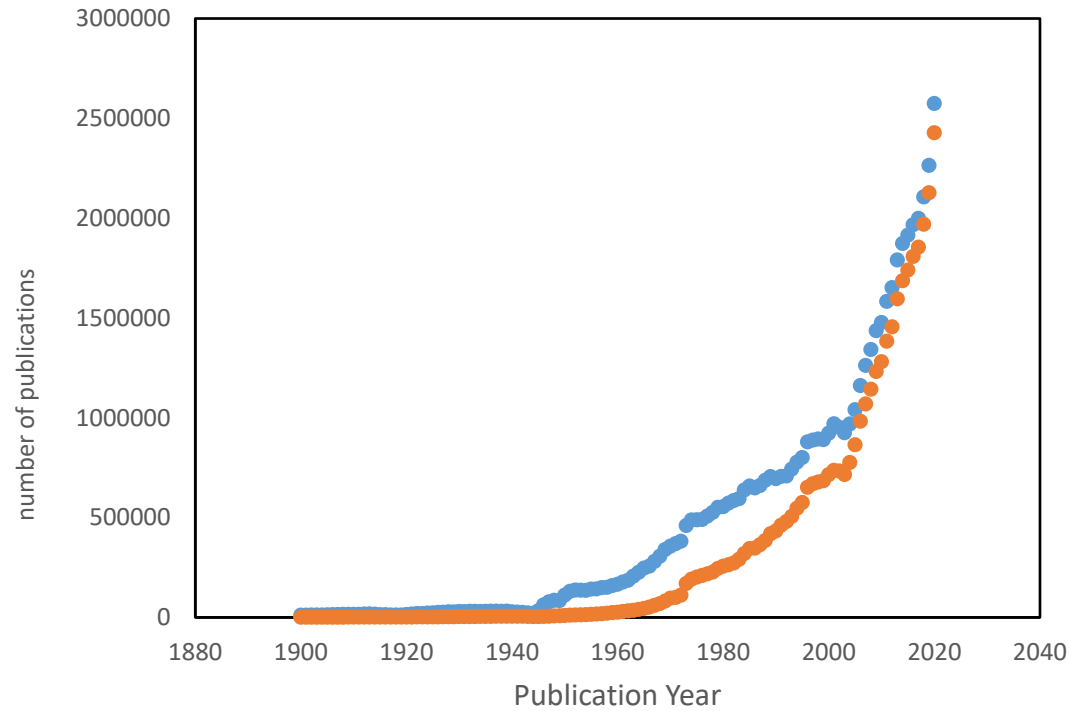
Papers



Readers



Growth in articles and journals in Scopus 1900 - 2020



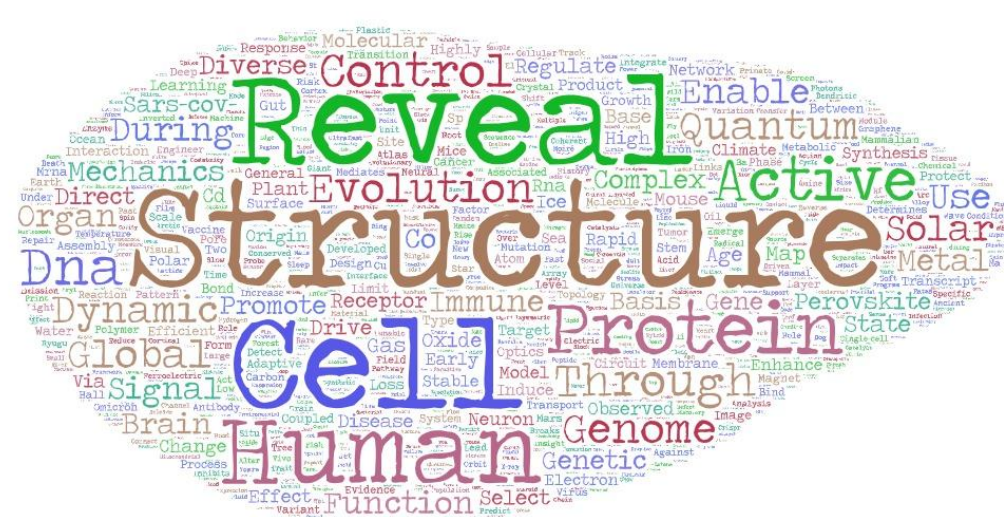
Blue – all articles or journals, Orange – Articles/Journals with 500+ character abstracts

From <https://direct.mit.edu/qss/article/3/1/37/109076/Scopus-1900-2020-Growth-in-articles-abstracts>

Picking a journal



Right audience



Right Scope and Focus

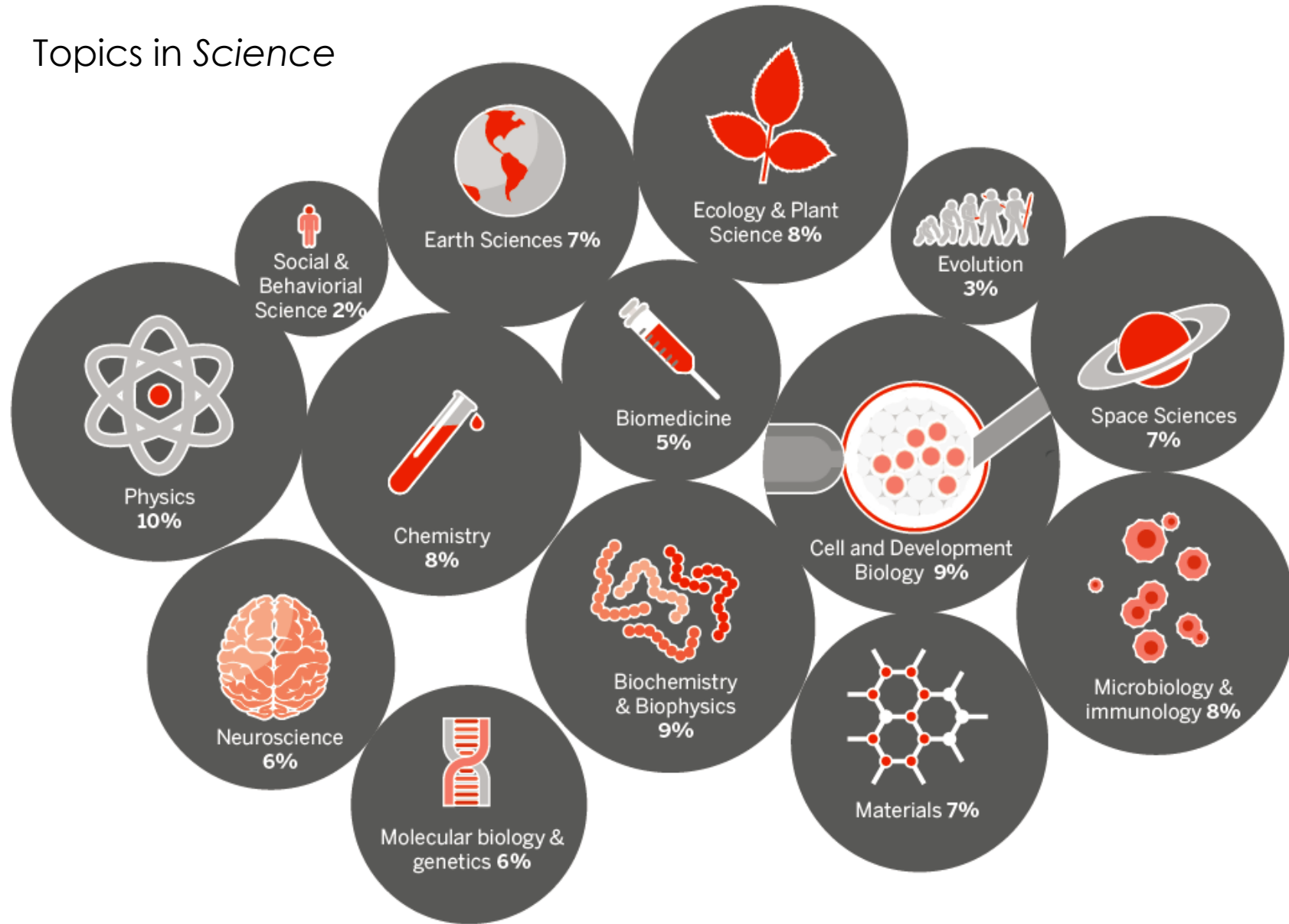


Journal quality

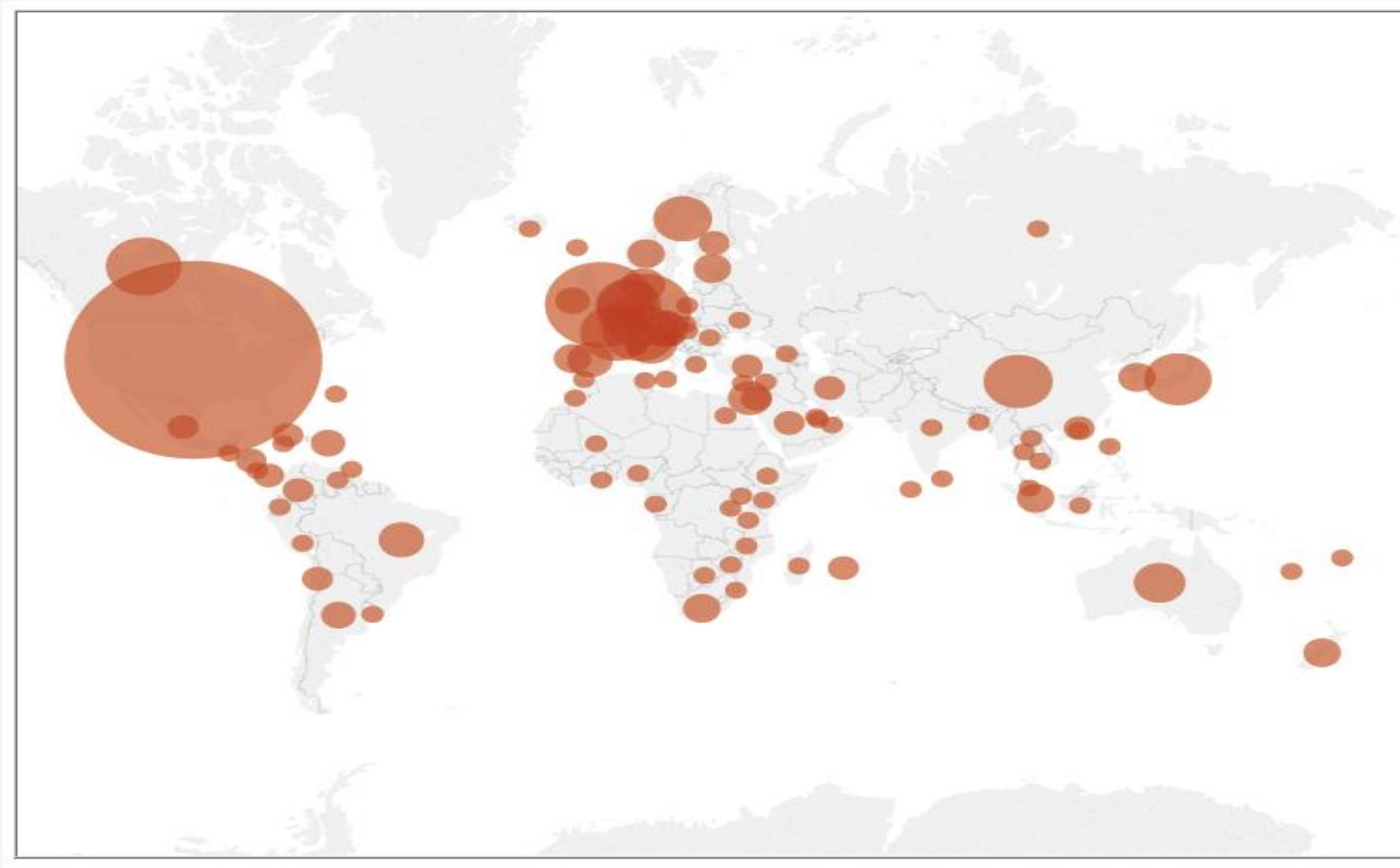


Journal selectivity

Topics in Science



Papers published in the last decade



Many papers are multidisciplinary
Many papers are multinational

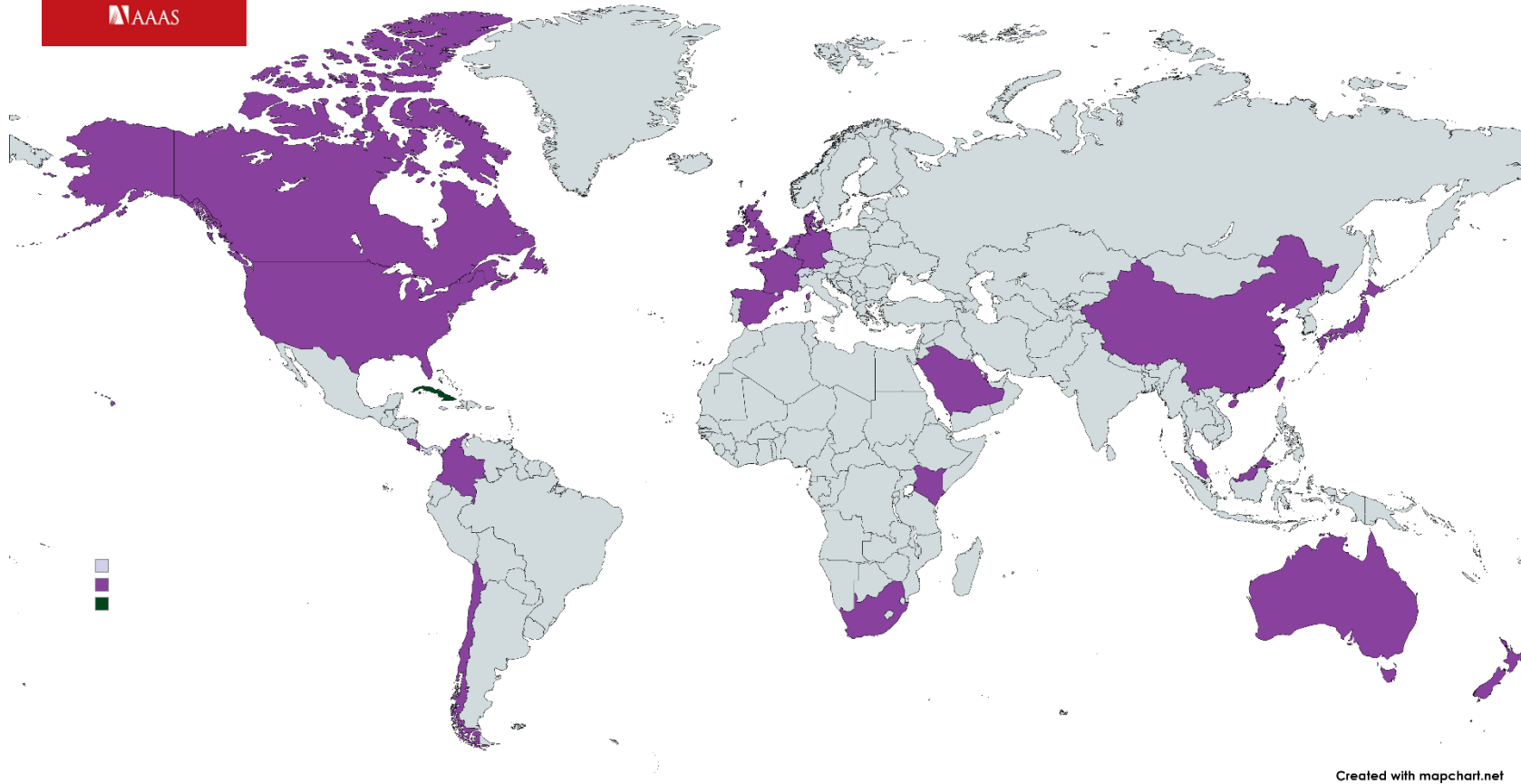
A boldly inclusive, mobilized, and **global scientific community** that ignites, **enables**, and celebrates **scientific excellence and science-informed decisions and actions.**





Widespread diversity deficits of coral reef sharks and rays

Genomic insights into the early peopling of the Caribbean

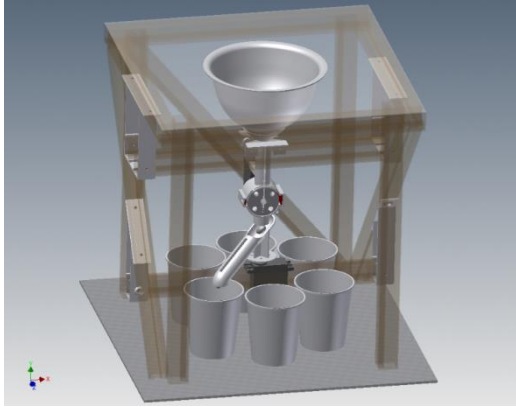


Imperfect bodies sink imperfectly when settling in granular matter.



Coordination-induced polymerization of P=C bonds leads to regular (P-C)_n polycarbophosphanes

E. coli “super-contaminates” narrow ducts fostered by broad run-time distribution



Select

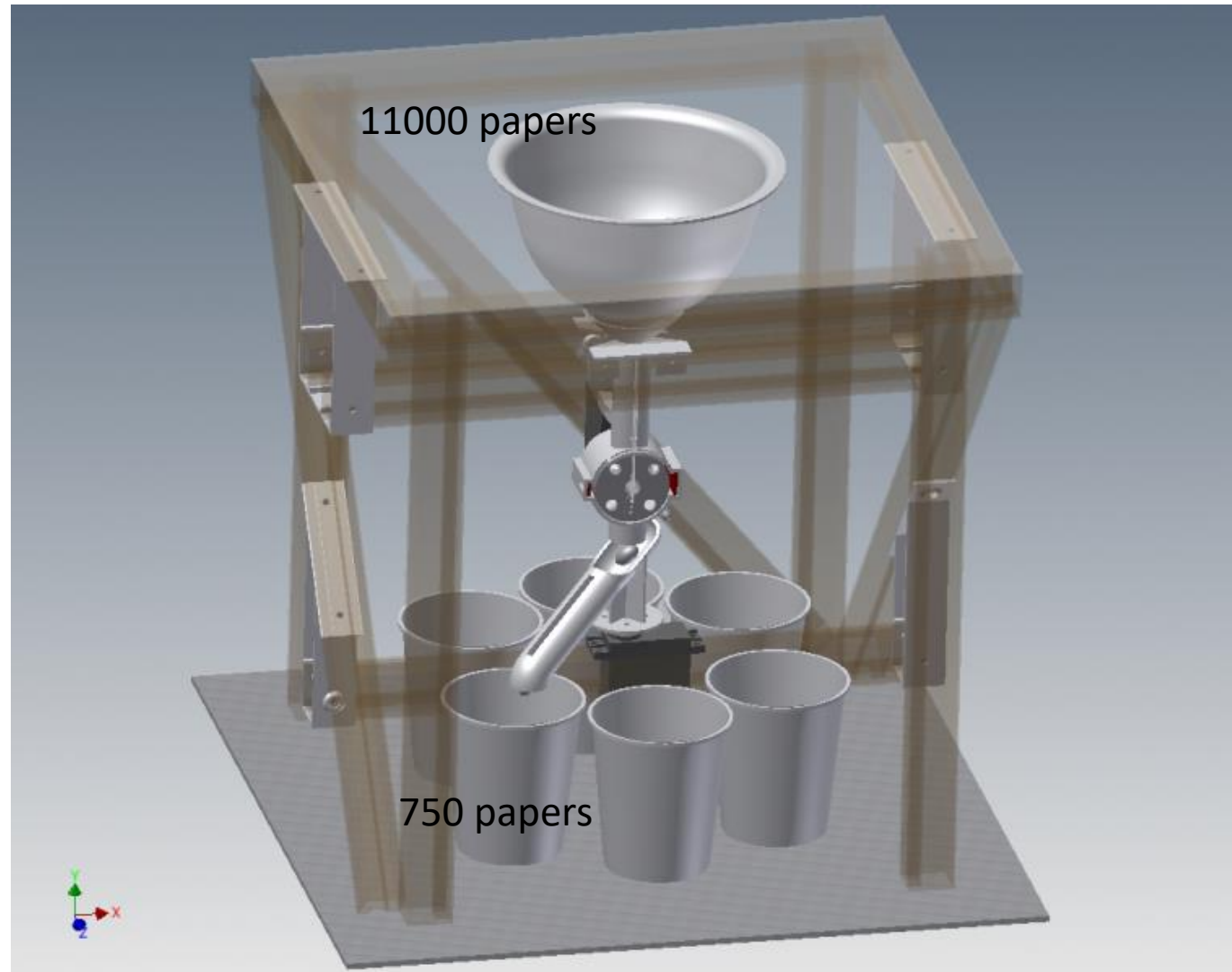


Enrich



Share

Select - Editors and Reviewers...



THE TEAM

Science

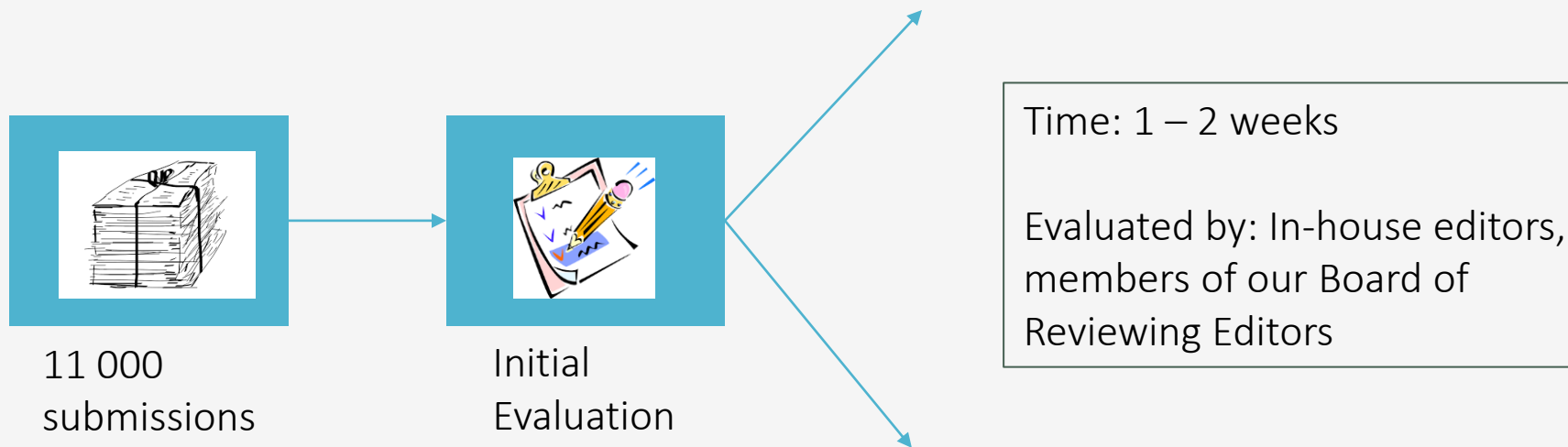


What happens to my paper?

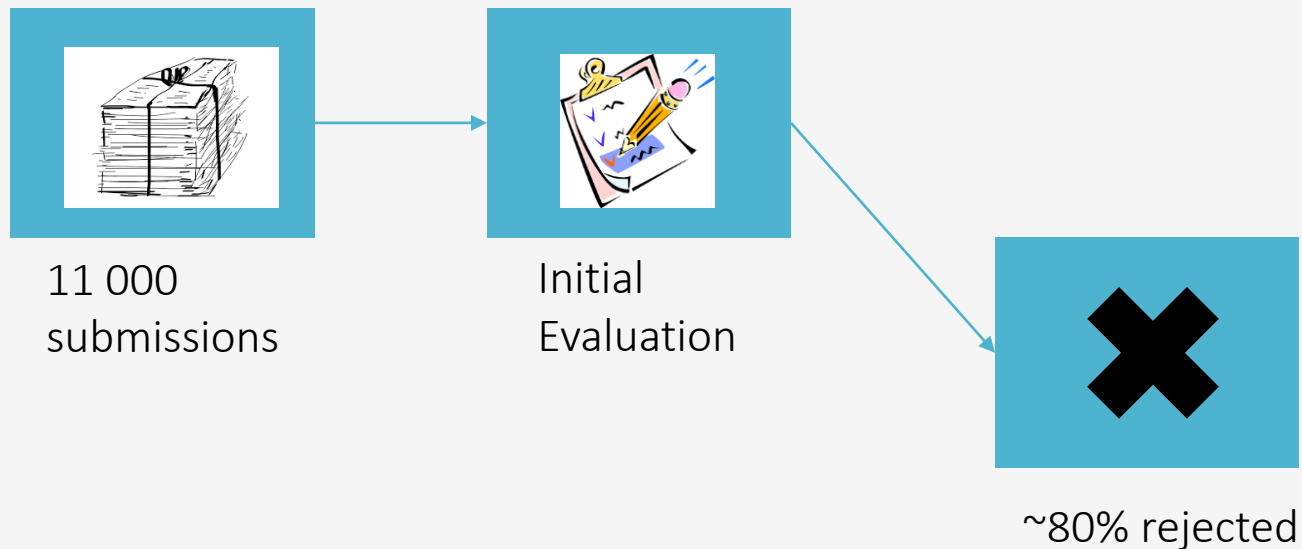


11 000
submissions

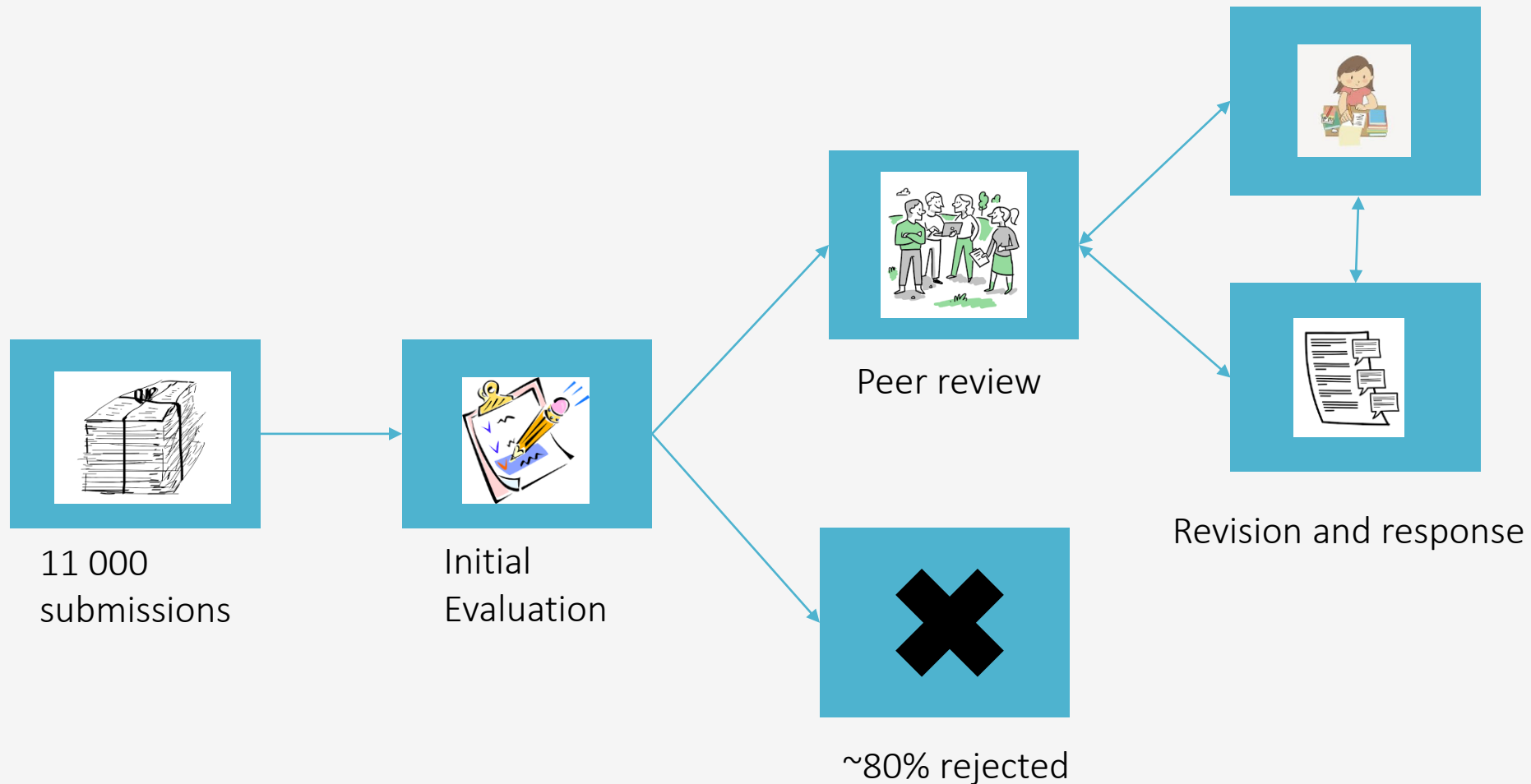
What happens to my paper at *Science*?



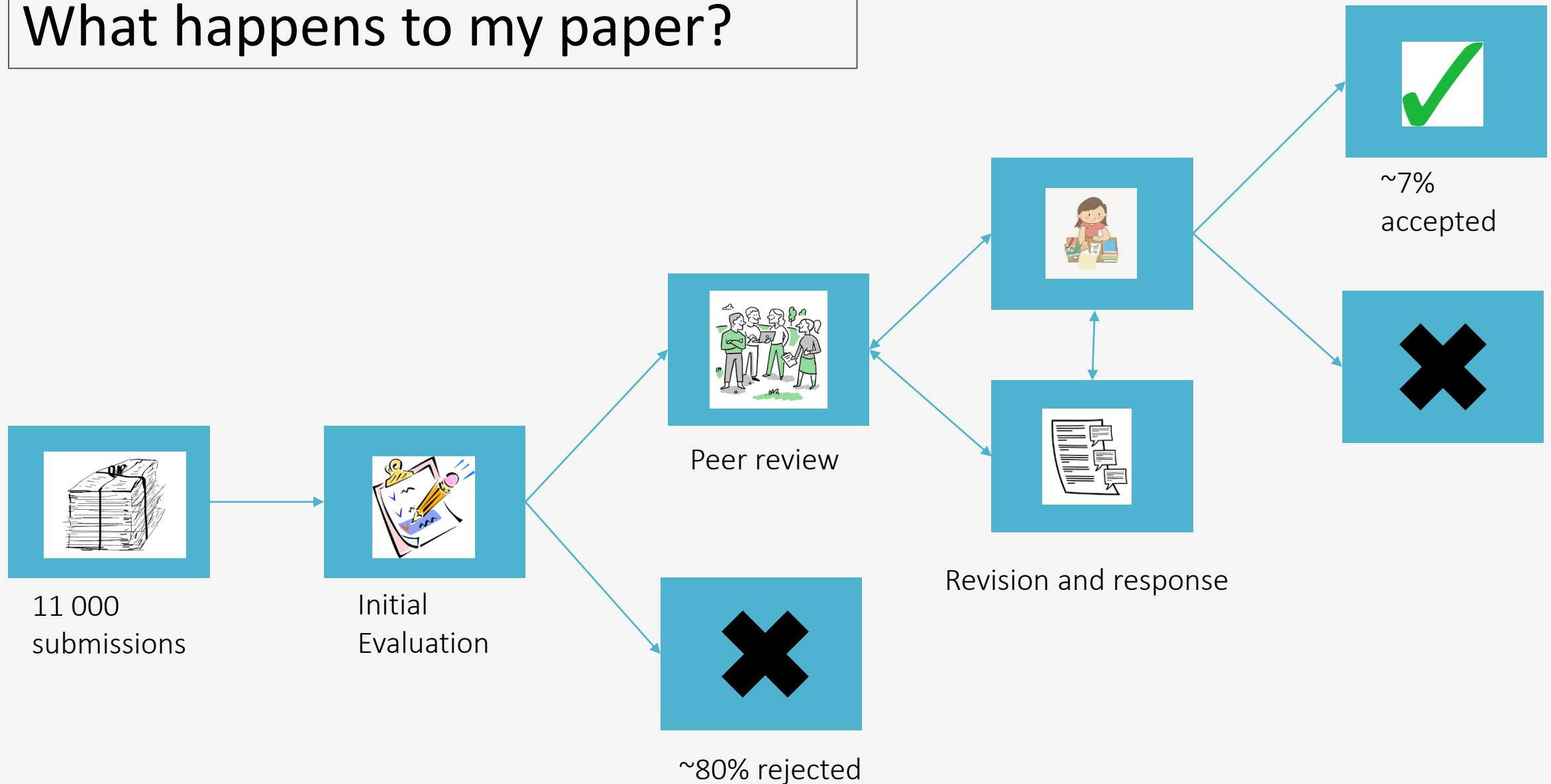
What happens to my paper?



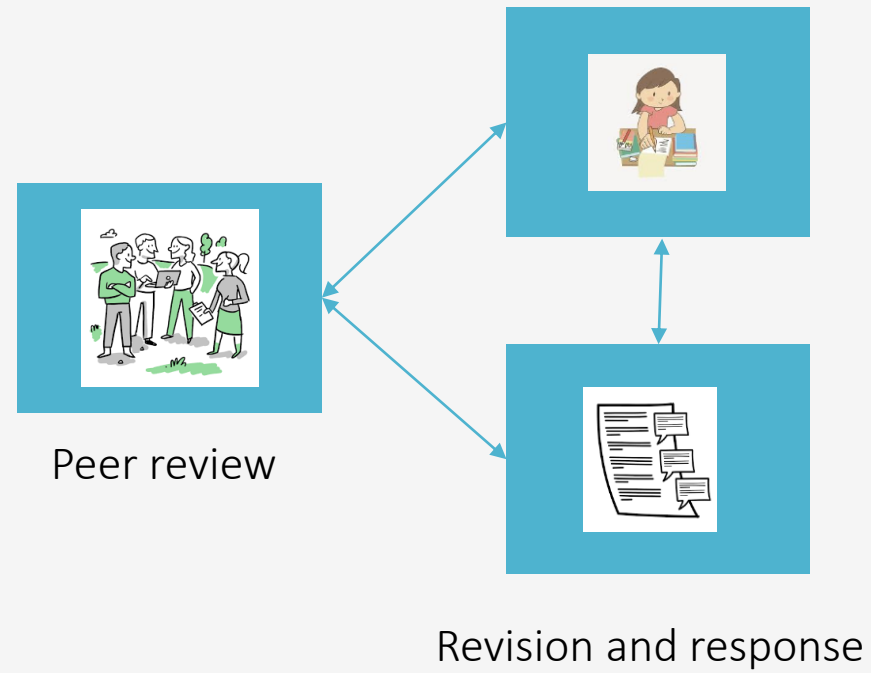
What happens to my paper?



What happens to my paper?



The Review Process



Choosing Reviewers



Source: <https://www.clipart.email/download/8788917.html>

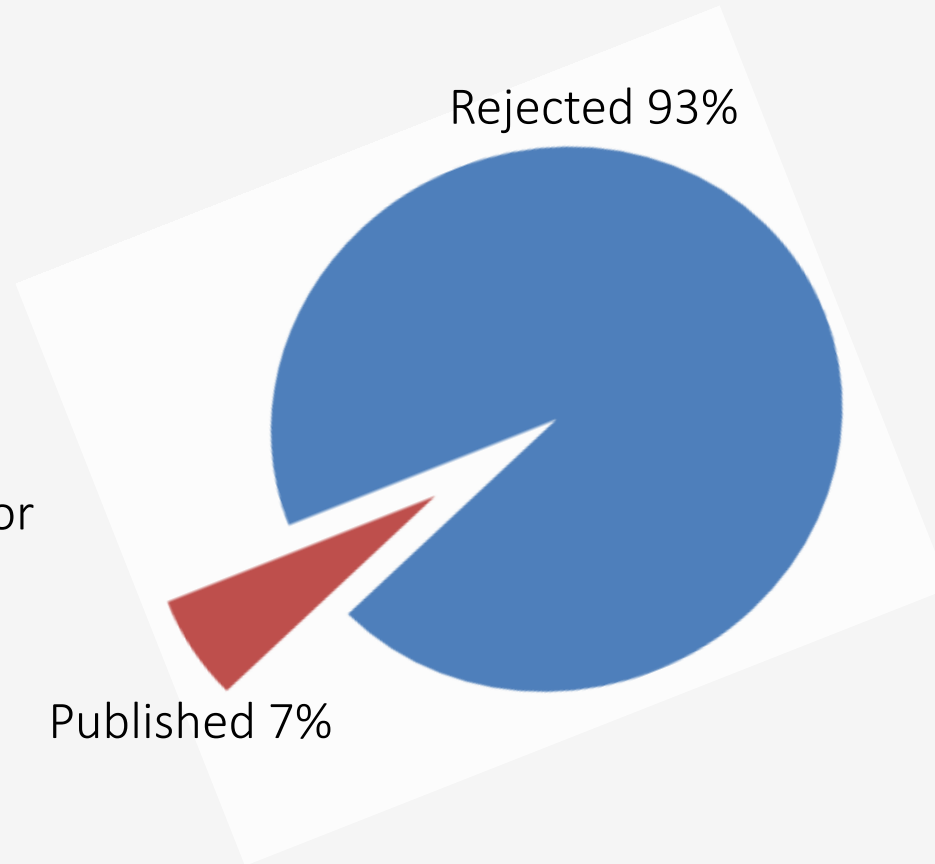
- **Editor's knowledge**
- **Board suggestions**
- **Database searches**
- **Author suggestions**
- **Expertise**
- **Diversity**
- **No COI**

Common reasons for rejecting a paper

Better suited to a specialist audience

Most exciting parts too speculative

Reviews not as enthusiastic as for other papers being considered



Adds to field, but doesn't advance it significantly

Enrich

Technical
edit

Checklist

Detailed
methods

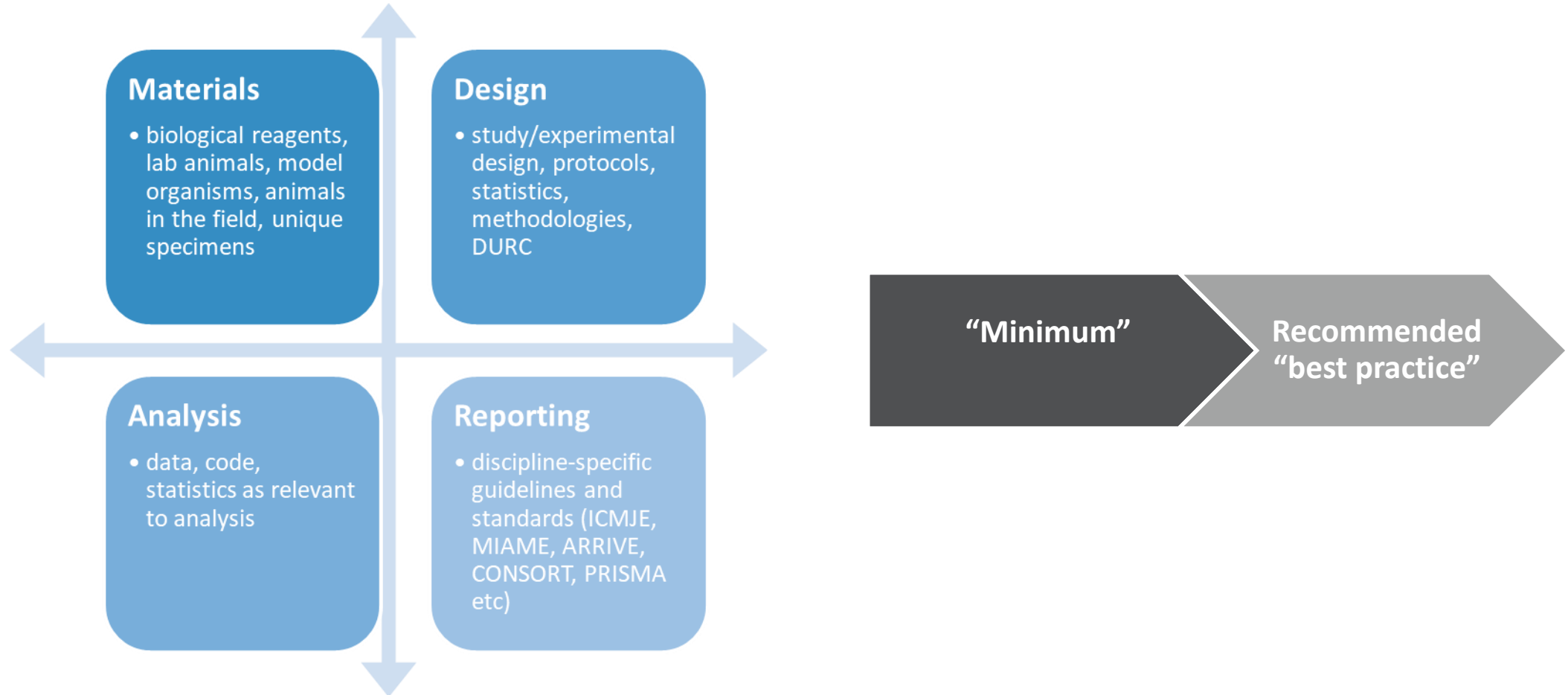
Code and
data



Pro^ofig



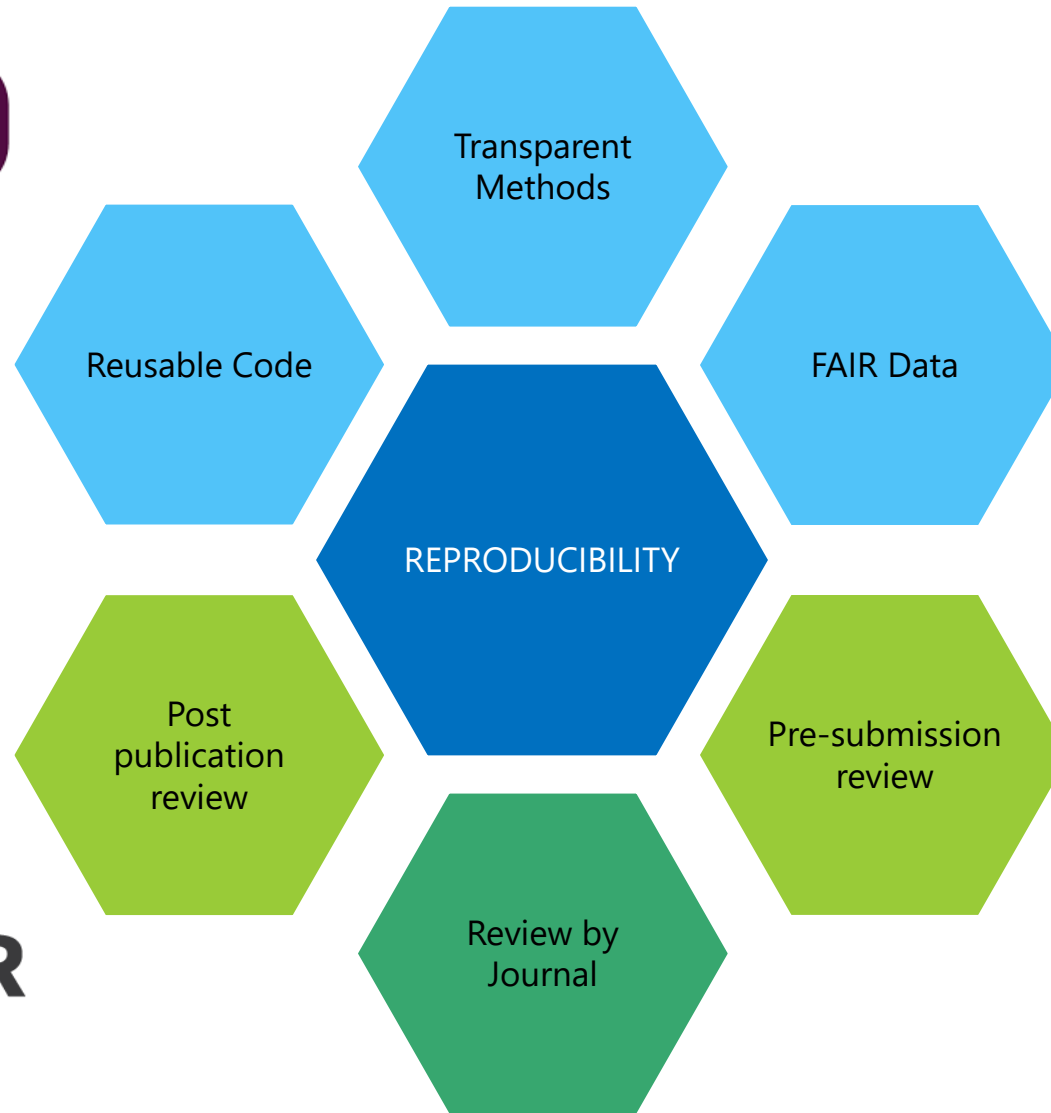
MDAR – Materials, Design, Analysis Reporting



Proofig



RCSB PDB
PROTEIN DATA BANK



PUBPEER
The online journal club

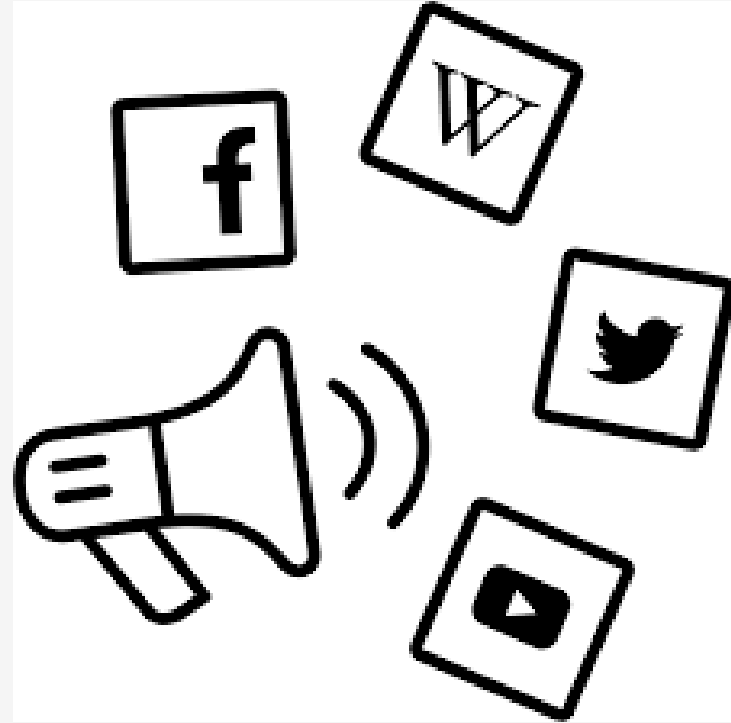
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Science's data policies

- All data must be available at the time of publication
- Use public repositories for data/code – API with Dryad



- Specific statement in acknowledgements about data availability
- All reasonable requests for materials must be fulfilled



Share

*"Real access to scientific information
depends entirely on making it
understandable to the intended audience."*

-Sudip Parikh,
Current AAAS CEO



A Science paper's value goes beyond availability

- Editors work to make manuscripts understandable by a broader audience.
- We have a press office that communicates the work to the media and gives authors guidance on promoting their work.
- Our free newsletter Science Adviser communicates science to a broad readership

<https://www.science.org/content/page/scienceadviser>

Thank You

