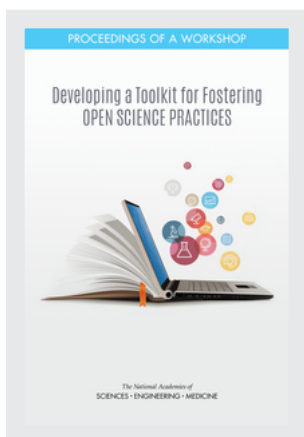


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Developing a Toolkit for Fostering Open Science Practices: Proceedings of a Workshop (2021)

DETAILS

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Appendix C

Toolkit Elements

This appendix includes examples of draft elements of a toolkit that have been developed by members of working groups of the National Academies of Sciences, Engineering, and Medicine’s Roundtable on Aligning Incentives for Open Science. The following materials were developed to stimulate discussions at the November 5, 2020, workshop on Developing a Toolkit for Fostering Open Science Practices:

- I. **Open Science Imperative.** This essay communicates the benefits of open science using approachable language.
- II. **Open Science Signaling Language Template and Rubric.** These resources provide specific language that can be adapted and adopted to signal an organization’s interest in open science activities at specific points of high leverage (e.g., grant applications, job postings).
- III. **Good Practices Primers.** These concise guides offer policy makers a high-level overview of open sharing.
- IV. **Open Science by the Numbers Infographic.** This infographic communicates the benefits of open science in a graphic form.
- V. **Open Science Success Stories Database.** This database compiles research articles, perspectives, case studies, news stories, and other materials that demonstrate the myriad ways in which open science benefits researchers and society alike.

- VI. **Reimagining Outputs Worksheet.** This table enumerates the range of research products stakeholders may choose to consider as they develop open science policies.

The toolkit is primarily intended to assist university leadership, academic department chairs, research funders, learned societies, and government agencies about how such a toolkit might be used, what additional materials are needed, and how such a toolkit should be disseminated for broad adoption. As a result of the workshop, a few sections in the Open Science Imperative and Good Practices Primers have been revised by the working group authors.

V. OPEN SCIENCE SUCCESS STORIES DATABASE³⁸

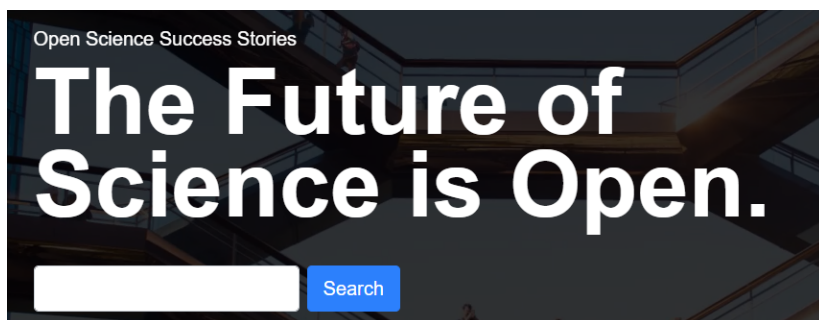
Derrick Anderson, Arizona State University
Greg Tananbaum, Open Research Funders Group

The Open Science Success Stories Database compiles articles, perspectives, case studies, news stories, and other materials that demonstrate the myriad ways in which open science benefits researchers and society alike.³⁹

Scientists, scholars, librarians, department chairs, university administrators, philanthropic program officers, government agency representatives, policy makers, publishers, journalists, and other stakeholders can use the curated resources to understand how open science is positively influencing specific disciplines and communities, as well as how these lessons can be applied to the global scientific endeavor.

The database is being developed by Arizona State University in collaboration with the Open Research Funders Group. An initial version is being made available as part of the background material for the November 5, 2020, National Academies workshop on Developing a Toolkit for Fostering Open Science Practices.

Open Science Success Stories Database:
<https://projectopen.io/>



³⁸ The views expressed are those of the authors and do not necessarily reflect the official policies or positions of their employing organizations.

³⁹ See <https://projectopen.io>.