

2023

NASA's Year of Open Science

NASA Transform to Open Science Mission

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2023

The United States White House announces **2023 A Year of Open Science**

A multi-agency initiative across the US Federal Government to spark change and inspire open science engagement through events and activities that will advance adoption of open science.



- ✦ **NASA**
- ✦ **National Oceanic and Atmospheric Administration**
- ✦ **National Science Foundation**
- ✦ **Department of Energy**
- ✦ **General Services Administration**
- ✦ **National Endowment for the Humanities**
- ✦ **National Institutes of Health**
- ✦ **National Institute of Standards and Technology**
- ✦ **US Department of Agriculture**
- ✦ **US Geological Survey**



A Common Definition

Open science is the principle and practice of making research products and processes available to all, while respecting diverse cultures, maintaining security and privacy, and fostering collaborations, reproducibility and equity.



2023 Year of Open Science: Goals

1. Establish a path towards a strategic plan for open science
2. Improve the transparency and equity of reviews
3. Account for open science activities in evaluations and incentives
4. Engage underrepresented communities in the advancement of open science



2023 Year of Open Science



Goal 1

**Establish a path
towards a strategic
plan for open science**



Goal 2

Improve the transparency
and equity of reviews



2023 Year of Open Science



Goal 3

Account for open science activities in evaluations and incentives



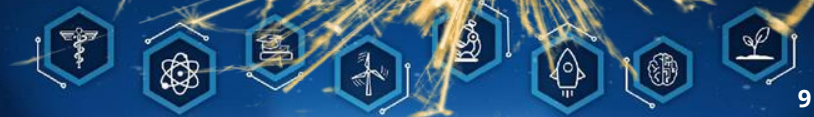


Goal 4

Engage underrepresented communities in the advancement of open science



2023 Year of Open Science



NASA is supporting scientists to integrate open science principles into the entire research workflow

Infrastructure

Policy

NASA's
Open-Source
Science
Initiative

Funding

Community



NASA's Transform to Open Science (TOPS)

a \$40 million 5-year mission to accelerate adoption of open science

TOPS' Strategic Goals:

- Support 20K researchers to earn NASA's digital open science certification
- Double the participation of historically excluded groups across NASA Science
- Enable five major scientific discoveries through open science principles



Engagement



Capacity Sharing



Incentives



Coordination



The NASA Open Science Certificate identifies researchers who use key open science skills

- Able to use digital tools to perform open science (e.g., ORCID, Zenodo, Github accounts)
- Familiar with data management and software management plan best practices and resources
- Grow connections across a community of open science practitioners

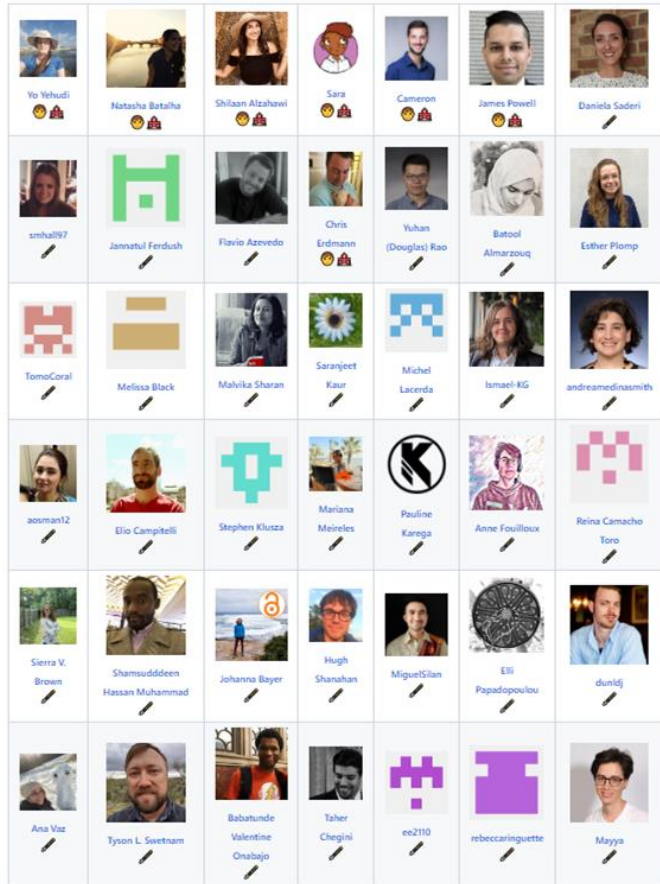
Open Science 101: A community-developed introduction to open science with inclusivity, accessibility, and diversity at the forefront.

Join us in
adopting
open science



“Somewhere,
something incredible
is waiting to be known.”
-Carl Sagan





This project follows the all-contributors specification. Contributions of any kind welcome!

Many thanks to the global community of open science experts who shared their knowledge and experiences with us!

