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WHITE HOUSE OFFICE OF SCIENCE

& TECHNOLOGY POLICY

FEBRUARY 21, 2024





AN OFFICIAL DEFINITION FOR OPEN SCIENCE

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.

















MAKING RESEARCH PRODUCTS & PROCESSES **AVAILABLE TO ALL**

- Since 2013, public access policies for federal agencies with research and development expenditures exceeding \$100M have been guided by an OSTP memo on public access.
- The previous guidance provided for an optional 12-month embargo on research publications and provided for agencies to require researchers to develop data management plans and ensure digital scientific data were stored and publicly accessible.

















ENSURING FREE, IMMEDIATE, AND EQUITABLE ACCESS TO FEDERALLY FUNDED RESEARCH

- On August 25, 2022, OSTP issued updated public access policy guidance affirming: "American investment in such research is essential to the health, economic prosperity, and well-being of the Nation. There should be no delay between taxpayers and the returns on their investments in research."
- The new guidance builds upon much of the 2013 memo by:
 - removing the 12-month publication embargo;
 - strengthening guidance on data and other scholarly material sharing;
 - supporting research integrity and scientific integrity in public access policies; and,
 - setting the stage for implementation through interagency coordination.





















"Openness is fundamental. Security is essential. Freedom and integrity are crucial."



PUBLIC ACCESS AND RESEARCH & SCIENTIFIC INTEGRITY

- The public should be able to identify which federal agencies support given investments in science, the scientists who conduct that research, and the extent to which peer-review was conducted.
- The whole research life-cycle applies: from grants and protocols, to researchers, to research outputs.

















INTERAGENCY COORDINATION FOR IMPLEMENTATION

- Coordination among federal agencies is critical for the success of delivering America's research to the public.
- The NSTC Subcommittee on Open Science (SOS) was chartered to facilitate such coordination between federal science agencies in conjunction with OSTP.
- Examples of tasks for the SOS in the memo:
 - coordinate between federal science agencies to enhance efficiency and reduce redundancy in public access plans and policies, including as it relates to digital repository access
 - consider measures to reduce inequities in publishing of, and access to, federally funded research and data, especially among individuals from underserved backgrounds and those who are early in their careers; and,
 - develop procedures and practices to reduce the burden on federally funded researchers in complying with public access requirements.









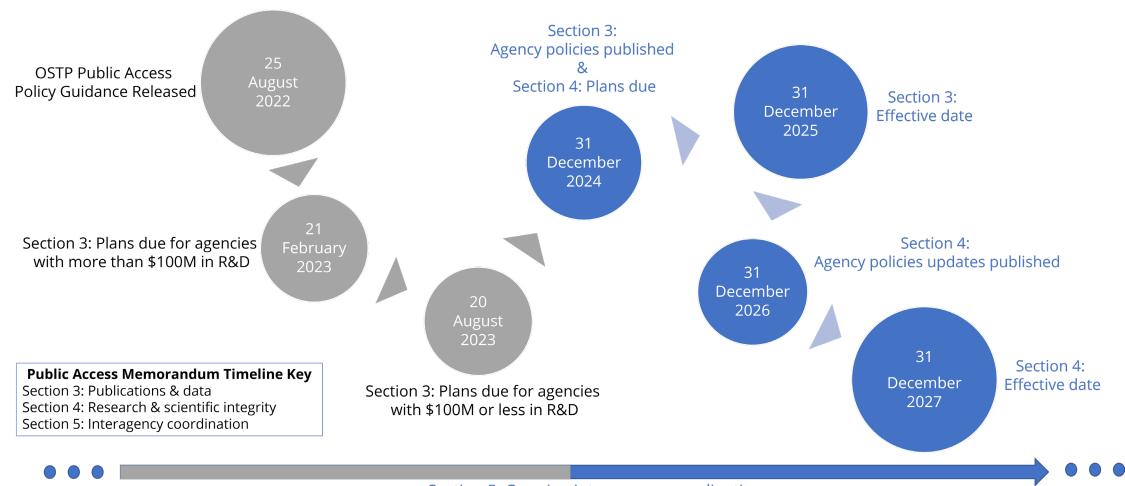








TIMELINE FOR THE 2022 OSTP PUBLIC ACCESS POLICY



Section 5: Ongoing interagency coordination

















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Public Access Plans & Guidance

On August 25, 2022, the White House Office of Science and Technology (OSTP) updated its U.S. public access policy guidance to make the results of taxpayersupported research immediately available to the American public at no cost. The 2022 OSTP Public Access Memo, "Ensuring Free, Immediate, and Equitable Access to Federally Funded Research," expands on OSTP's 2013 guidance to Federal agencies with over \$100 million in annual research and development expenditures. Key policy updates include:

- Removing the optional 12-month publication embargo with plans to ensure federally funded peer-reviewed research articles are made freely available and publicly accessible by default in agency-designated repositories
- Strengthening the data sharing plans of the 2013 Memorandum by making data published in peer-reviewed research articles immediately available upon publication and other research data available within a reasonable timeframe
- Supporting research integrity and scientific integrity in public access policies
- Setting the stage for implementation through interagency coordination through the National Science and Technology Council Subcommittee on Open Science (SOS)

All federal agencies with research and development expenditures are subject to this guidance. OSTP expects agency policies for increasing public access to scholarly publications and scientific data be publicly posted by December 31, 2024 and to go into effect by December 31, 2025. Agencies are expected to update and post their public access policies by December 31, 2026 with additional provisions related to supporting research and scientific integrity.

The listing below provides links to and information on public access plans and guidance, including responses to the 2022 OSTP policy guidance. Please check back periodically as this list will be refreshed as agencies publicly post their new or updated public access plans and policies.

Open All | Close All

Administration for Community Living (ACL) (U.S. Department of Health & Human Services)	+
Agency for Healthcare Research and Quality (AHRQ) (U.S. Department of Health & Human Services)	+
Agriculture (USDA), U.S. Department of	+
Centers for Disease Control and Prevention (CDC) (U.S. Department of Health & Human Services)	+



















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Open Science Announcements from Federal Agencies

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.

Federal agencies are celebrating 2023 as a Year of Open Science, a multi-agency initiative across the federal government to spark change and inspire open science engagement through events and activities that will advance adoption of open, equitable, and secure science.

Help spotlight the value of open science by checking out this toolkit: choose and use images for social media, presentations, posters and virtual backgrounds agency partners may even co-brand, #YearofOpenScience,

Centers for Disease Control and Prevention

Department of Agriculture Department of Commerce

Department of Energy Department of State

Department of Transportation

Environmental Protection Agency

National Aeronautics and Space Administration

National Endowment for the Humanities

National Institutes of Health

National Institute of Standards and Technology National Oceanic and Atmospheric Administration

National Science Foundation

Smithsonian Institution

U.S. Geological Survey

U.S. General Services Administration

White House Office of Science and Technology Policy

















































PRIORITY AREAS & KEY THEMES FOR YEAR OF OPEN SCIENCE ACTIVITIES



Open Science Policy Development



Infrastructure Development or Enhancements



Open Science Training and Capacity
Development



Community
Engagement for
Broadening
Participation in
Open Science



Incentives for Promoting Open Research Practices

















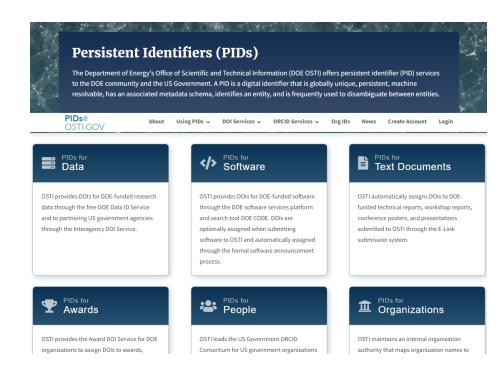




INFRASTRUCTURE DEVELOPMENTS OR **ENHANCEMENTS**



NSF Findable, Accessible, Interoperable, and Reusable Open Science Research Coordination Networks (FAIROS-RCN)



Launch of DOE's PIDs at **OSTI.GOV** Resource













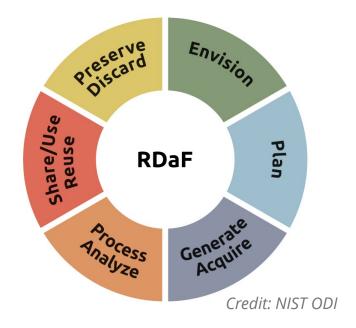




OPEN SCIENCE TRAINING AND CAPACITY DEVELOPMENT



NASA's Open Science 101 Curriculum



NIST Research Data Framework (RDaF)























JULY 11, 2023

Readout of OSTP Open Science Listening Sessions with Early Career Researchers

→ OSTP → NEWS & UPDATES → PRESS RELEASES





















INCENTIVES FOR PROMOTING OPEN RESEARCH PRACTICES























From a Year of Open Science into a Future of Open, Equitable, and Secure Research

