

Open Science Across Borders: India vs. U.S. Institutional Approaches plenary session: *U.S. Institutional Approaches*

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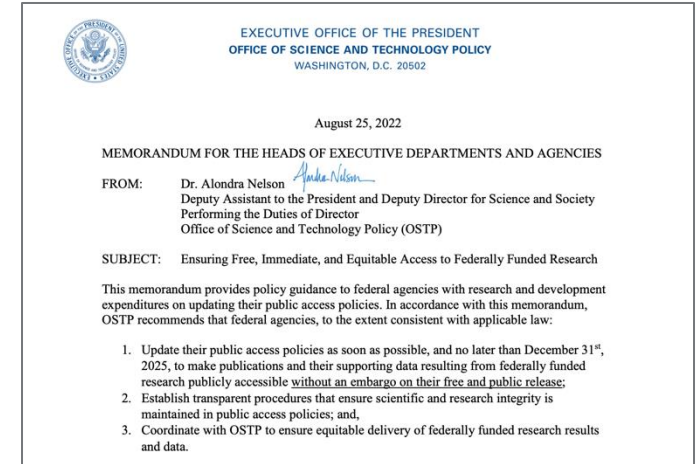
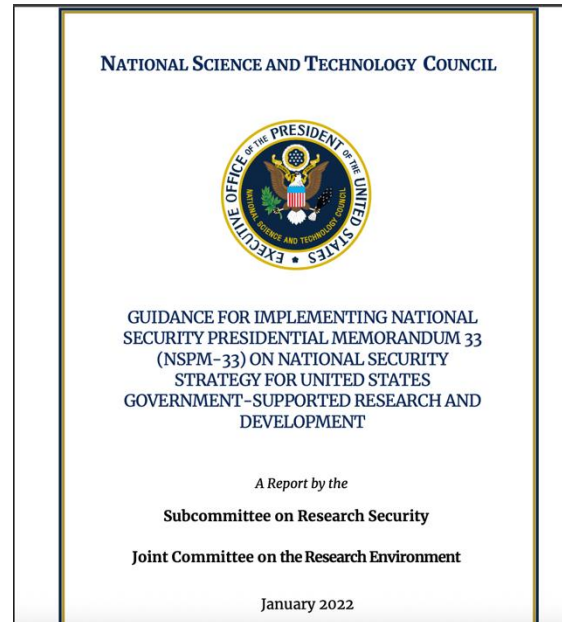
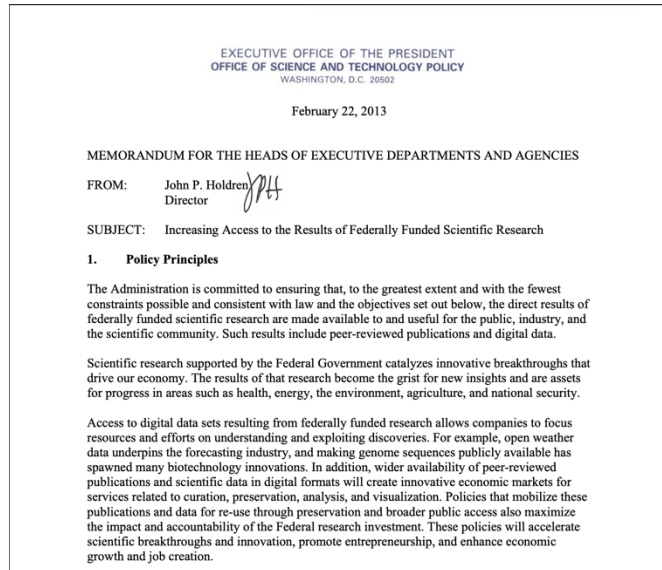
Presented on
September 26, 2025
USETDA 2025 Conference

Outline

- National legislation and policy, open-access and open science platforms, collaborative initiatives
- Obstacles and opportunities for promoting open science
- Libraries and library leaders' roles in promoting open science

National legislation and policy,
open access and open science platforms,
and collaborative initiatives

National legislation and policy



- [Office of Science and Technology Policy \(OSTP\) Memo \(2013\)](#)
 - [We the People Petition | America COMPETES Reauthorization Act of 2010 \(P.L. 111-358\)](#)
- [Guidance For Implementing National Security Presidential Memorandum 33 \(NSPM-33\) On National Security Strategy For United States Government-Supported Research And Development \(2022\)](#)
- [Office of Science and Technology Policy \(OSTP\) 'Nelson' Memo \(2022\)](#)
- [Federal purpose license \(§ 200.315 Intangible property\) in place since 1976](#)

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The TOP Guidelines were created by journals, funders, and societies to align scientific ideals with practices.

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Browse Publication and Data Sharing Requirements by Federal Agency

This is a community resource for tracking, comparing, and understanding both current and future U.S. federal funder requirements for sharing research publications and research data. Click below to review and compare agencies' public access plans for publications or data sharing requirements.

Tracking and Understanding **Publication Sharing Policies** [View Requirements](#)

Tracking and Understanding **Data Sharing Policies** [View Requirements](#)

OPEN ACCESS AND OPEN SCIENCE PLATFORMS & INFRASTRUCTURE

- **U.S. government agencies** data and publication sharing requirements and portals
- **Non-profit organizations** collaborating with researchers, institutions, government, publishers
- **Publishers** requiring dataset deposit or publication, providing diamond, green open access

Collaborative Initiatives

HELIOS

Higher Education Leadership
Initiative for Open Scholarship
cohort of colleges and universities

Center for Open Science

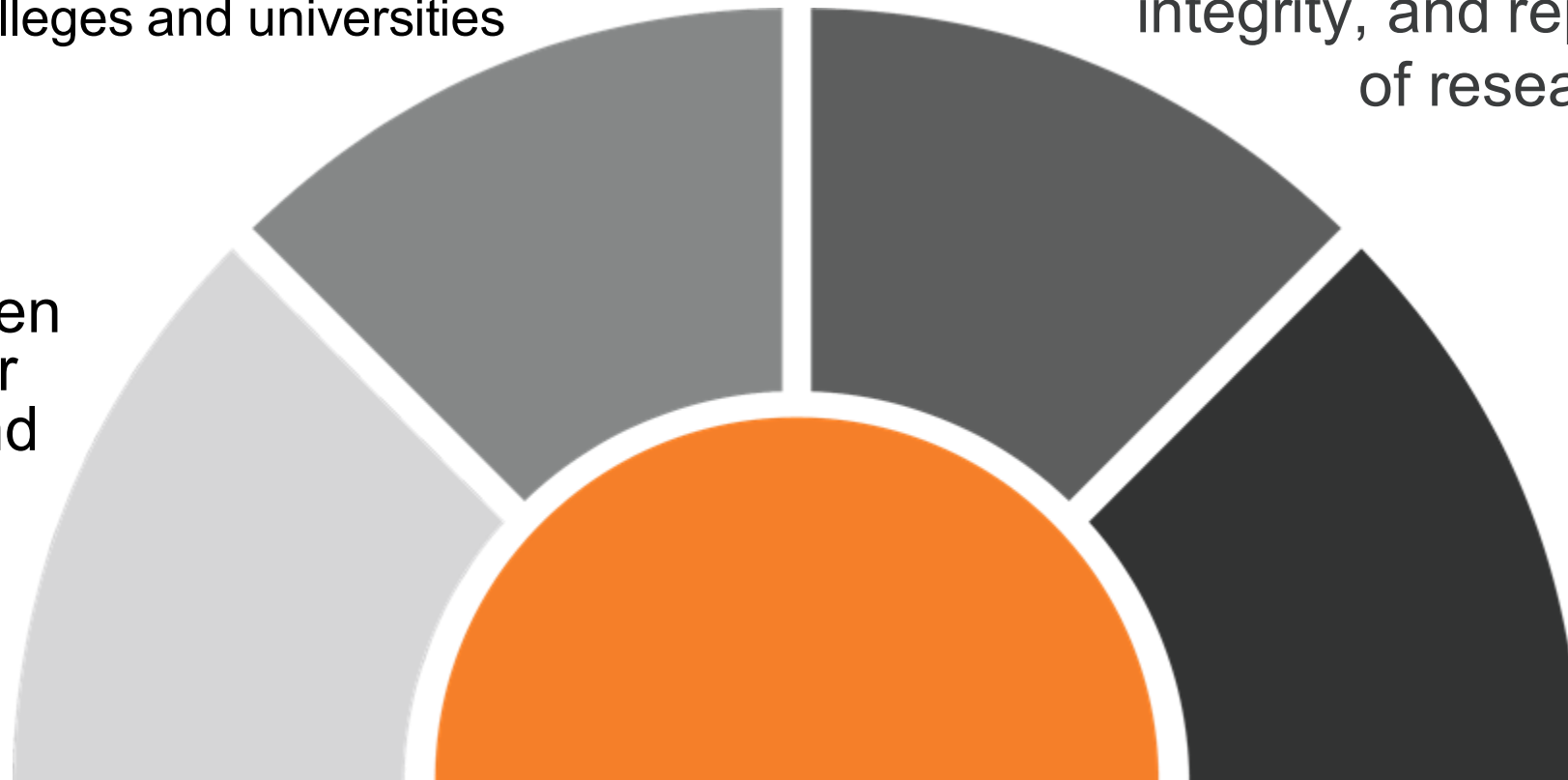
To increase openness,
integrity, and reproducibility
of research

SPARC

Supports open
systems for
research and
education

TOME

A collaborative
exploration of
open scholarly
monograph
publishing



Obstacles and opportunities for promoting open science

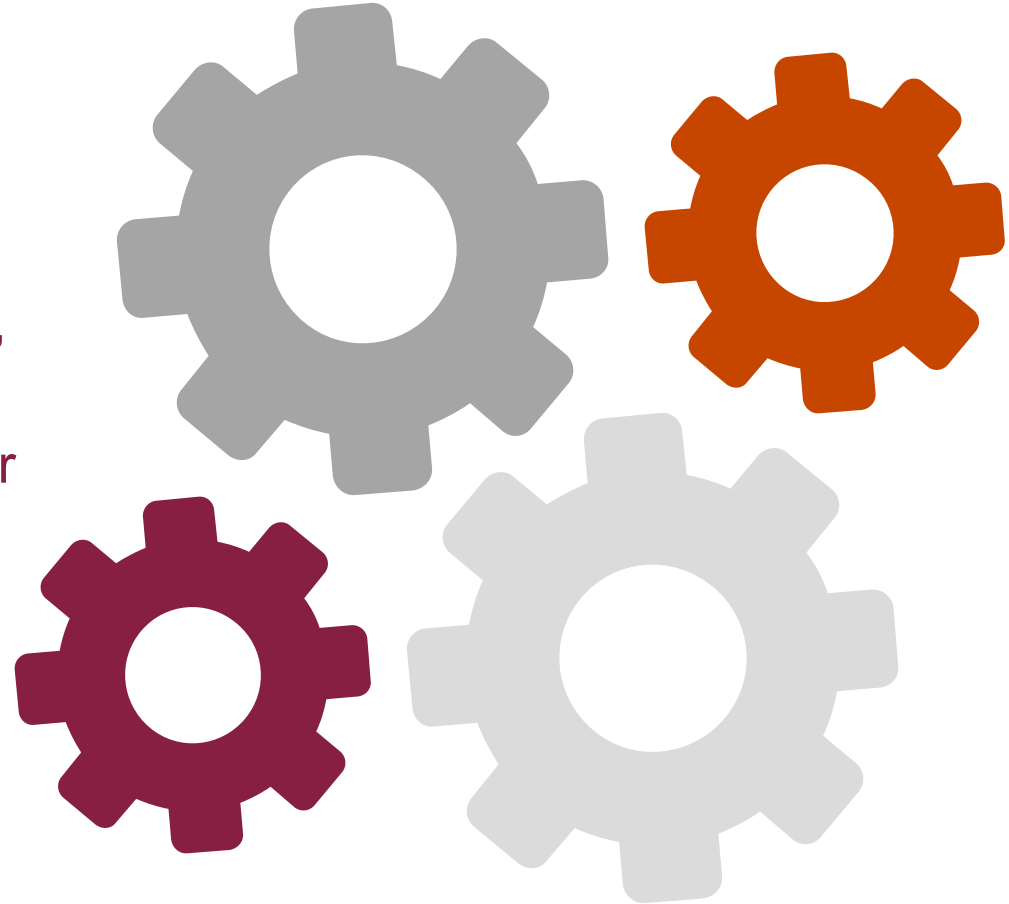


OBSTACLES

- Culture change: academic practices and incentives, disciplinary differences
- Shifting priorities for funding, international collaboration, research security
- Cost
- Technical infrastructure
- Scholarly communication system and publishing models

OPPORTUNITIES

- Increasing adoption by researchers
- Increasing incentives and requirements from funders, publishers, government
- Open funding for research across topics
- Opportunities to increase public involvement in, awareness, and use of research
- Opportunities to update academic incentives for promotion, tenure
- Opportunities to increase interoperability ([ORCID](#), [ROR](#))
- New partnerships ([USRN](#))
- Open Science training and by our communities and government agencies ([NASA Open Science](#))



Libraries and library leaders' roles

Libraries and library leaders' roles in promoting open science

- Embedding open throughout library services and initiatives
- Providing training, education, public engagement events
- Developing and managing technical infrastructure (*eTDs, scholarly and data repositories, scholarly publishing, profile and research information management (RIM) systems*)
- Provide access to community, coalition infrastructure
- Developing and promoting licensing for open use
- Building institutional culture
- Partnerships (*institutional, professional associations, coalitions*)
- Policy contributions and building public awareness

Q & A
and
Open Floor Discussion

Q&A and Open Floor Discussion

Share **your perspectives and examples** for promoting **open science**:

- National legislation / policy
- Open access / open science platforms
- Collaborative initiatives
- Obstacles
- Opportunities
- Libraries / Institutions and library / institutional leaders' roles in promoting open science