

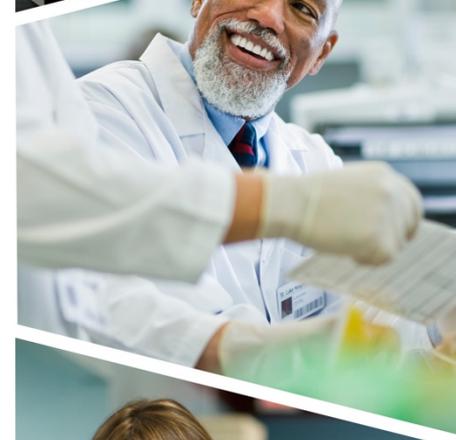
Development of a Proposed NIH Data Management and Sharing Policy

January 9, 2017

Federal Demonstration Partnership (FDP)

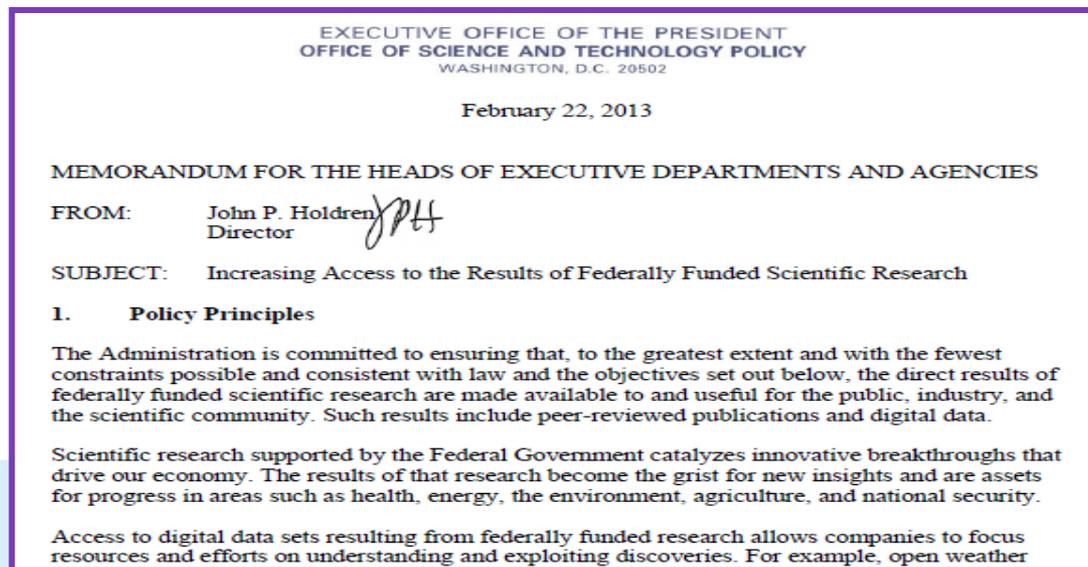
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Background

- Feb. 2013: White House Office of Science and Technology Policy (OSTP) released memorandum entitled “Increasing Access to the Results of Federally Funded Scientific Research”
 - Development of agency Plans
 - Applies to peer-reviewed publications and digital scientific data

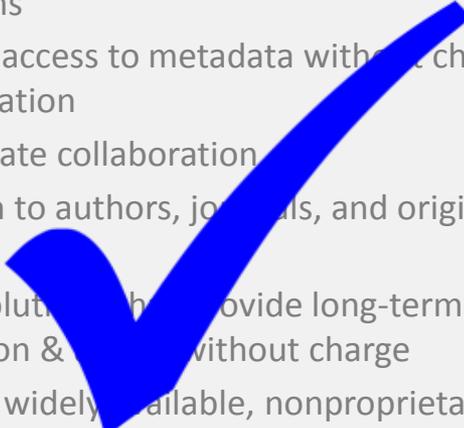


Objectives of the Holdren Memo

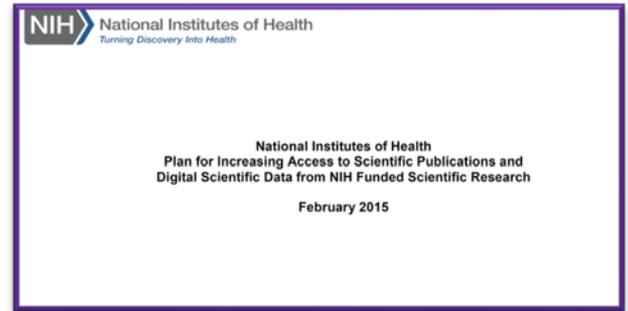
Digital Data

- Maximize free access while
- Protecting privacy and confidentiality, national security
- Recognizing intellectual property rights
- Balancing costs & benefits of long-term preservation
- Require data management plans (DMPs)
- Allow inclusion of costs in applications for funding
- Ensure appropriate evaluation of DMPs
- Monitor compliance by investigators
- Encourage deposit of data in public repositories, where possible
- Cooperate with the private sector
- Develop approaches for data citation & attribution
- Support training, education and workforce development
- Assess long-term needs for preservation and options for repositories

Scholarly Publications

- Public can read, download, analyze in digital form
 - 12-month post-publication embargo as guideline, with stakeholder petitions to change
 - Easy public search, analysis of, and access to publications
 - Full public access to metadata without charge upon first publication
 - Public-private collaboration
 - Attribution to authors, journals, and original publishers
 - Archival solutions that provide long-term preservation & access without charge
 - Uses widely available, nonproprietary standards/formats
 - Provides access for persons with disabilities (consistent with Section 508 of Rehabilitation Act)
 - Enables integration and interoperability with other Federal archival solutions and other appropriate archives
- 

The NIH “Public Access Plan”



Feb. 2015: NIH Plan released

- **Peer-reviewed publications - NIH Public Access Policy**
- **Considerations for Digital scientific data**
 - Requiring submission of data management plans (DMPs) by all NIH-funded research investigators, regardless of funding level
 - Evaluating data sharing plans during peer review process
 - Encouraging supported researchers to deposit data in established public repositories and to use existing data standards
 - Developing approaches to ensure the discoverability of data resulting from NIH-funded research
 - Promoting interoperability and openness of digital scientific data generated or managed by NIH
 - Exploring the development of a data commons

NIH Priority-Setting for Data Management and Sharing

- **Plan ≠ Policy**
- **Vast amount of data types generated with NIH funds**
- **Many federal and international efforts underway in data sharing, open data, open science**
- **NIH identified need to assess value, benefits, and costs of sharing different data types**
 - **Engage the public to help establish priorities (e.g. RFI, presentations, discussions)**

RFI on Strategies for NIH Data Management and Sharing (NOT-OD-17-015)

- **Section I: Data Sharing Strategy Development**
 - What, when, and how data should be managed and shared
 - Value in sharing different types of data
 - Barriers and how to overcome them
- **Section 2: Inclusion of Data and Software Citation in NIH Research Performance Progress Reports and Grant Applications**
 - Impact of citations on reporting and the need for technical guidance
 - Strengthen and incentivize data and software sharing
- **General feedback on relevant topics**
- **Released November 14, 2016, comments due by January 19, 2017**

Considerations for a *Proposed* NIH Data Management and Sharing Policy

- **Data Management Plans**
 - Required, regardless of funding level
 - Evaluated during peer review
 - Machine-readable and updateable
 - Made publicly available (e.g., RePORTER)
- **Request budget in application to support data management plans**
- **Use of publicly accessible data repositories for archiving and preserving scientific data**
- **Enable appropriate citation of data**
 - Registration of datasets to facilitate access and appropriate credit to data generators



Next Steps for NIH

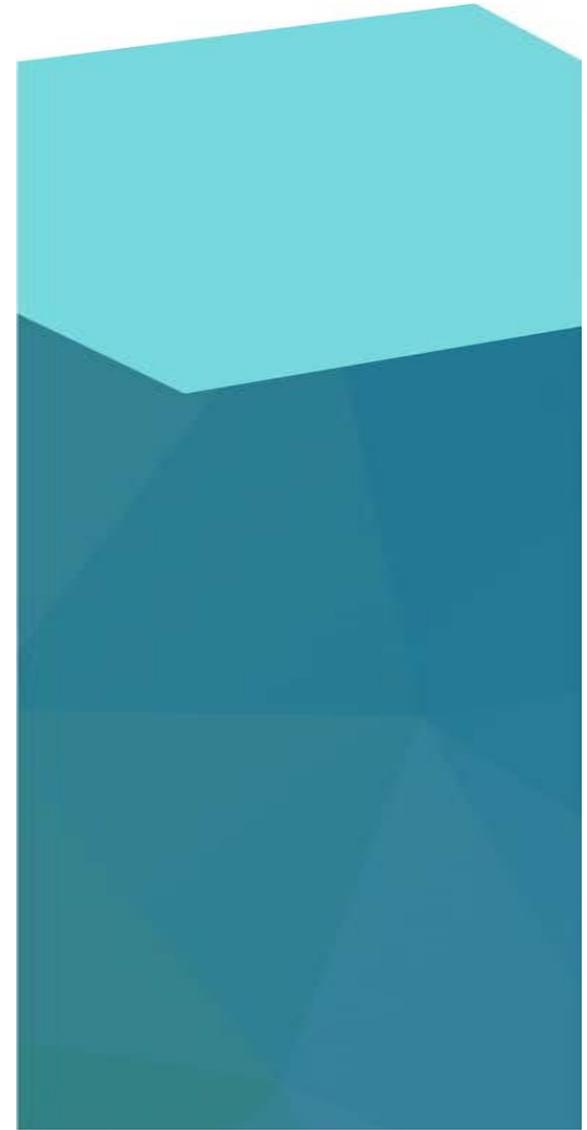
- Confer with other Federal agencies
- Issue draft policy for public comment
- Analyze comments and finalize policy
- Issue final policy and guidance, along with education, training, tools, etc.
 - Implement any changes to systems, forms, procedures, etc.

Additional NIH Data Sharing Activities

- **NIH Data Commons**
- **Trans-NIH BioMedical Informatics Coordinating Committee (BMIC)**
- **Big Data 2 Knowledge (BD2K) Initiative**
 - Resource Indexing (e.g., BioCADDIE, Data Discovery Index)
 - Funding Opportunities (e.g., curation, community-based standards, technologies)

Additional Resources

- For General Inquiries:
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JPKim@nih.gov (OER)
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Questions

