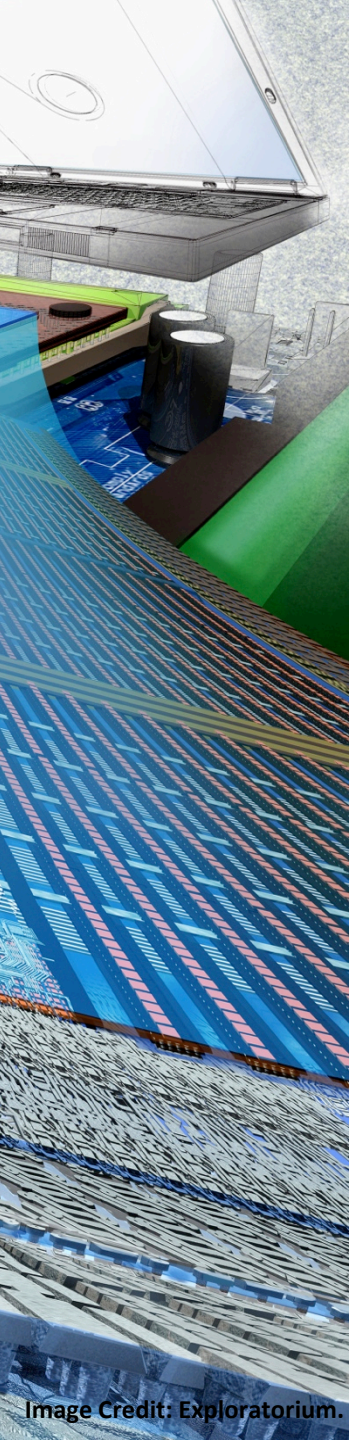


Image Credit: Exploratorium.

NSF's Public Access Initiative

overview and update

Jim Kurose

Assistant Director, NSF

Computer & Information Science & Engineering

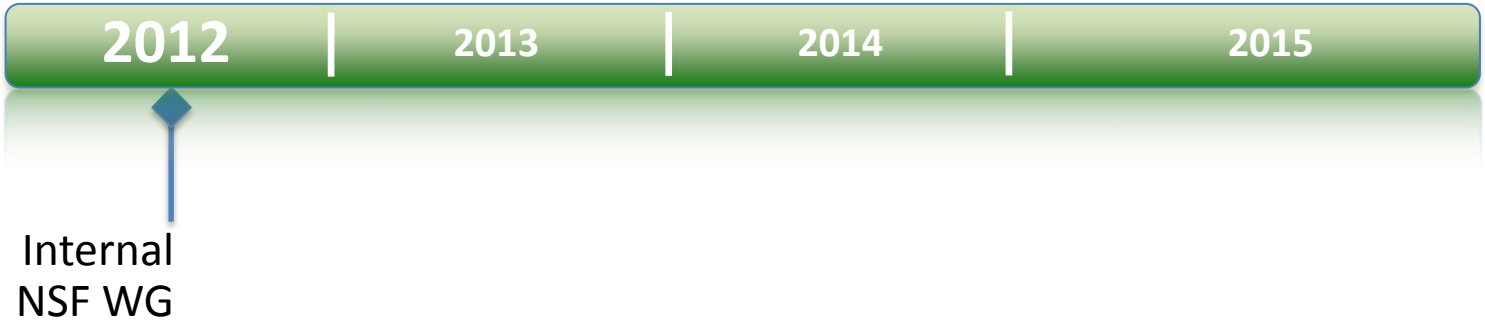
MPS Advisory Committee

Nov 3, 2015

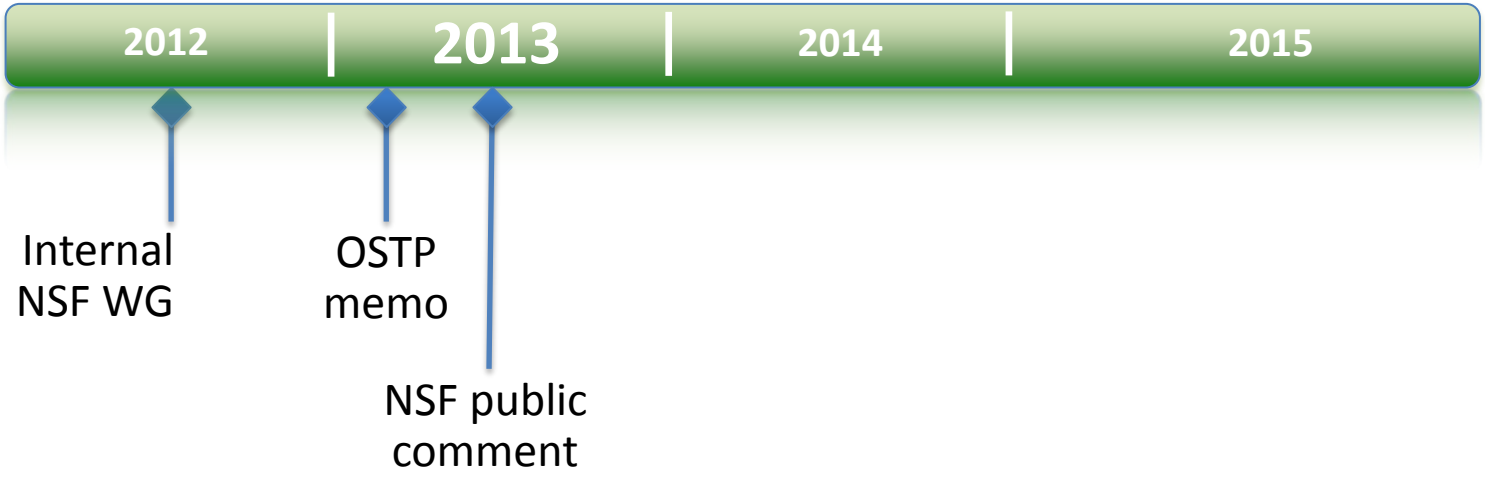
Overview

- NSF public access: a brief history
- NSF’s public access repository
- Public access plan: publications
- Public access plan: data
- Looking forward

NSF Public Access: a brief history

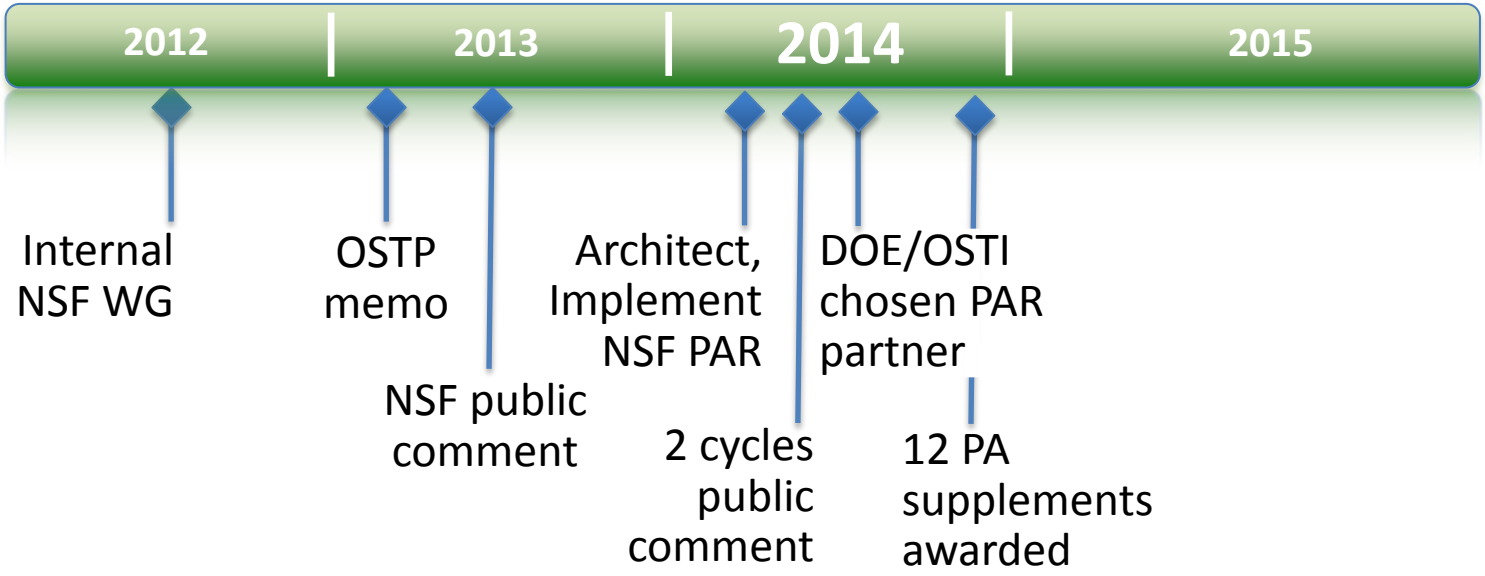


NSF Public Access: a brief history

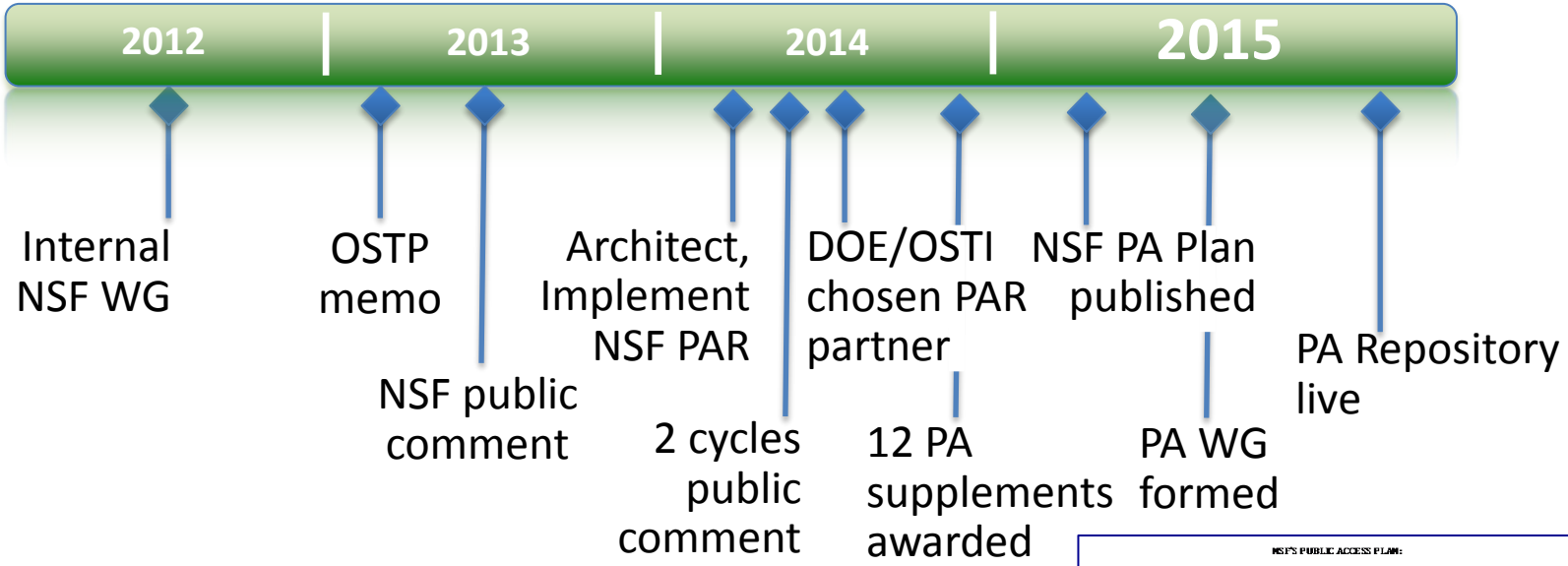


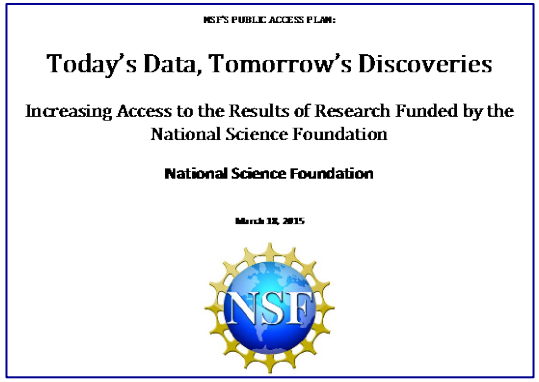
OSTP: directs federal agencies to develop plans to make publicly available to the "greatest extent and with the fewest constraints possible and consistent with law" the "direct results of federally funded scientific research."

NSF Public Access: a brief history



NSF Public Access: a brief history




NSF'S PUBLIC ACCESS PLAN:

Today's Data, Tomorrow's Discoveries

Increasing Access to the Results of Research Funded by the National Science Foundation

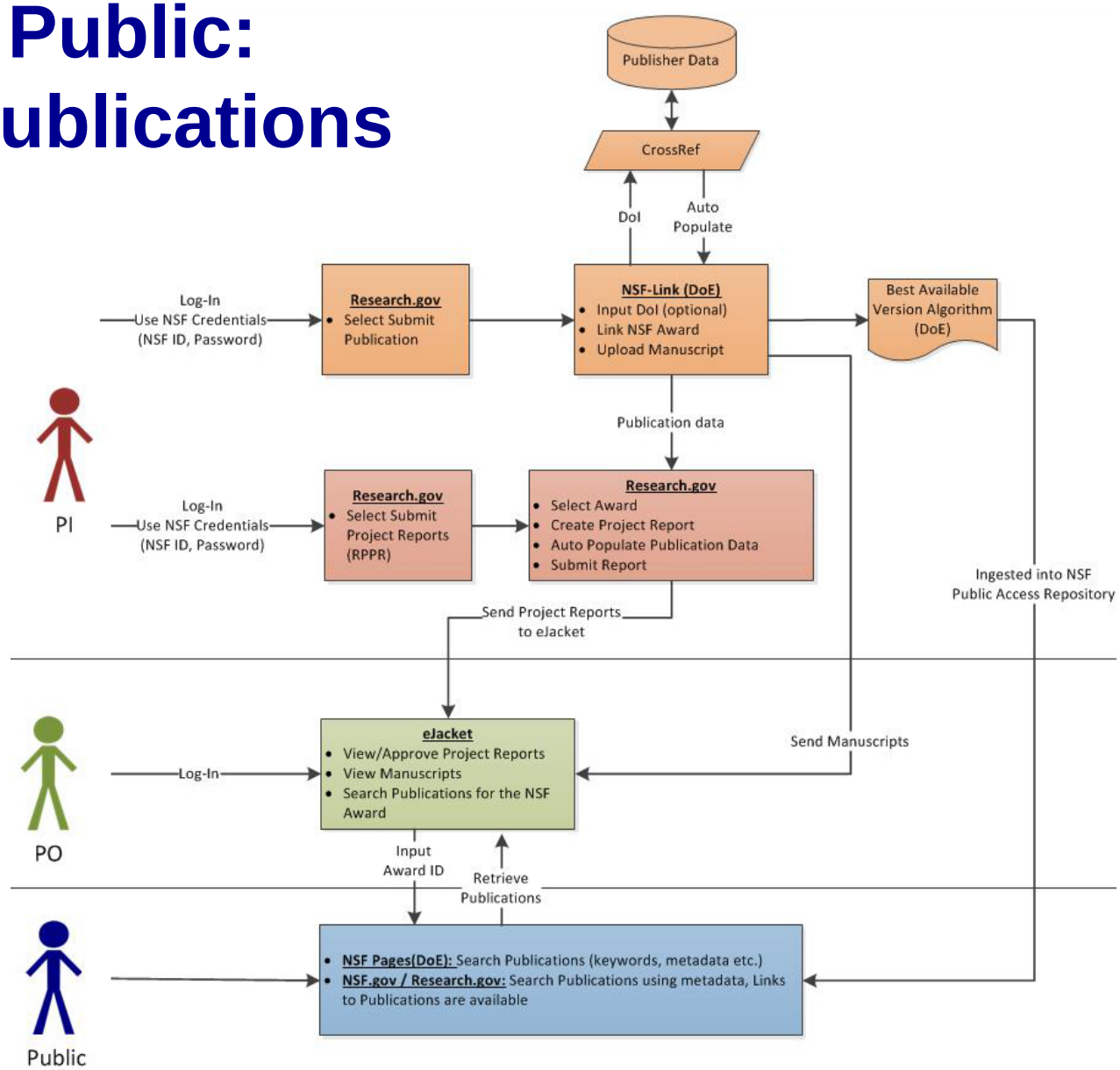
National Science Foundation

March 18, 2015

Requirements: Public Access Repository

- Provide public access to journal, juried conference papers
- Minimize burden on PIs, NSF staff
- Leverage existing systems and workflows:
  - Extensions to internal proposal and award management systems (research.gov; e-Jacket; Award Search; etc.)
  - External systems
    - DOE/OSTI infrastructure for publications
    - Publisher/library services, e.g., CrossRef
    - Potentially others (federated system engaging other Federal agencies, academic libraries, and publishers)
- Extensible to other products of NSF-funded research
- Minimize cost

PI, PO, and Public: access to publications



NFS Public Access Plan: publications

- ✓ Public Access Repository:
  - public access to journal, refereed conference publications
  - soft launch scheduled Nov 23, 2015 (including extensions to research.gov)
- ✓ 2016 Proposal & Award Policies & Procedures Guide (*PAPPG*) revised, published
- ✓ FAQ and website:

http://www.nsf.gov/news/special_reports/public_access/index.jsp

We will gain experience, learn best practices by doing as the NSF Public Access Repository is used

NFS Public Access Plan: data

Data Management Plans:

- “data management is dynamic and practices vary substantially across the broad range of scientific disciplines supported by NSF” [NSF 15-52]
- “What constitutes reasonable data management and access will be determined by the community of interest through the process of peer review and program management. In many cases, these standards already exist, but are likely to evolve as new technologies and resources become available” [Data Management & Sharing Frequently Asked Questions (FAQs)]

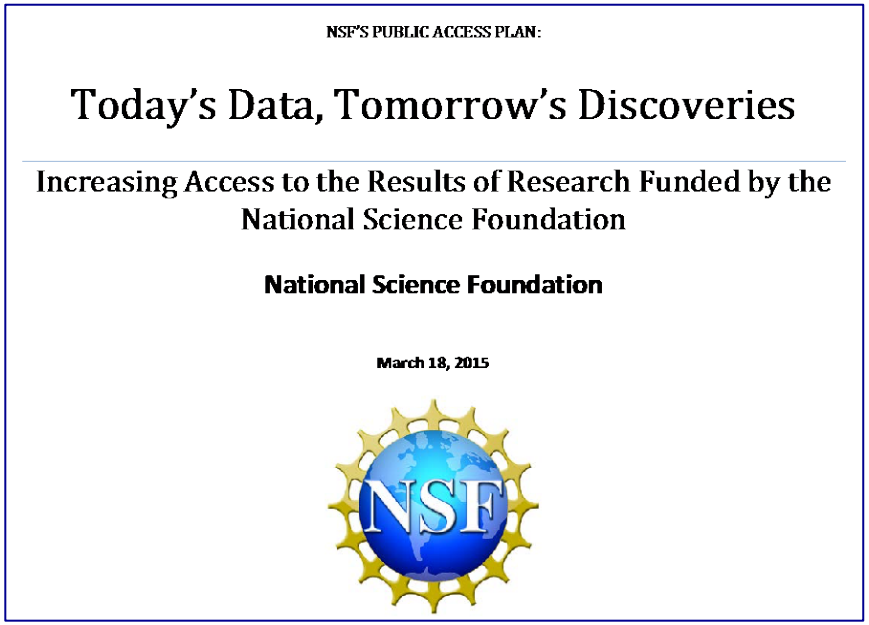
NFS Public Access Plan: data

- Individual directorates (e.g., BIO,CISE) have released updated DMP guidance (GEO underway)
  - per-directorate discussions of DMPs
- Under discussion:
  - foundation-wide workshop?
  - pilots using persistent identifiers?
- PA repository provides extensible mechanism for data, other research products
- Longer term:
  - continued discussion, consultation with multiple agencies
  - roles, responsibilities, business models for data repositories

NFS Public Access: looking forward

- Publications: gaining experience with public access repository, developing best practices
- Data: data management plans
- Longer term discussions:
  - additional research products
  - data repositories

NSF's Public Access Plan: Today's Data Tomorrow's Discoveries [NSF 15-52] describes NSF's current and future Public Access activities


NSF'S PUBLIC ACCESS PLAN:

Today's Data, Tomorrow's Discoveries

Increasing Access to the Results of Research Funded by the National Science Foundation

National Science Foundation

March 18, 2015

Thanks to those who got us here!

- Amy Friedlander
- First Public Access WG
  - M. Gutmann, C. Gabriel, J. Tornow, co-chairs; A. Friedlander, A. Northcutt, M Santonastasso, J. Silverthorne, H. Wactlar, R. Wakimoto
- Technical Teams in NSF/DIS, DOE/OSTI, NSF/BFA, NSF/SBE (25 individuals total)
- ~50 PDs and staff
- Current Public Access WG
  - J. Kurose, A. Northcutt, co-chairs; A, Friedlander, D. Aronson, M. Cavanaugh, M. Cragin, C. Gabriel, E. Kelly, A. Medina-Borka, I. Qualters, E. Wissi, C. Rohlfing (C. Copper), J. Silverthorne, A. Tomkins

BACKUP

What does the plan say?
(consistent with OSTP policy objectives)

- Requires deposit of journal articles and juried conference papers funded by awards resulting from proposals submitted in January 2016 (PAPPG) to be made publicly available no later than 12 months after publication in the NSF Public Access Repository, hosted by DOE/OSTI
- Allows for a waiver to the 12-month embargo
- Retains current DMP requirement, allowance for costs, and data citation and calls for community engagement to support consistent data management best practice
- Supports public search through:
  - Existing award search mechanisms
  - Search capability on the NSF Public Access Repository, hosted by DOE/OSTI
  - Expose metadata to third party search systems (future)
- Leverages current programs, policies, and systems
- Calls for a Working Group to provide oversight
- Establishes a website with the Plan, opportunity for feedback, and FAQs
- Calls for regular updates to the NSB and OSTP/OMB
- Allows for evolution to other products of NSF-funded research

What will/will not change?

- Publication deposit in support of public access is a *new* **requirement**
  - Deposit is separate, but integrated with reporting in Research.gov to minimize burden and support post- award deposit including legacy articles
  - Builds on *existing* reporting requirements
  - Article Processing charges can be requested as a direct cost, as is *current policy*
- Current DMP policies *remain in place* with activities intended to enable consistent identification, description, and management through the directorates/communities

Public Access Supplements, *FY 2014*

Mayernik, Matthew (UCAR)	1449668	GEO	EAGER: Repository Cross-Linking for Open Archiving and Sharing of Scientific Data and Articles
Lehnert, Kerstin	1449298	GEO	Geoinformatics Facilities Support: Integrated Data Collections for the Earth & Ocean Sciences: The Marine Geoscience Data System and the Geoinformatics for Geochemistry Program
O'Grady, Richard (AIBS)	1449499	BIO	A Proposal for Participant Travel Support to a Workshop to Identify Issues Related to Changing Practices Around the Publication of Data
Insight Policy Research Inc	E74979X	OIA	
O'Grady, Richard (AIBS)	1450894	BIO	Proposal for a Workshop on Reducing Barriers for the Management, Integration, and Public Sharing of Large and Complex Data among Biologists Working at Genome-Phenome to Macrosystems Levels
Hovy, Eduard (CMU)	1450545	CISE	A Method to Retrieve Non-Textual Data from Widespread Repositories
Martins, Emilia	1451110	BIO	Evolution of integrated behavior (US-India collaboration)
Webster, Michael	1451374	BIO	Meeting: Advancing the Accessibility of Digital Media for Biological Research in the 21st Century
Ruggles, Steven	1451112	ACI/SBE	DataNet Full Proposal: Terra Populus: A Global Population/Environment Data Network (Supplement)
Attewell, Paul	1455947	EHR	Building an inter-disciplinary research community to prototype computationally-intensive analysis of large scale educational datasets
Hildreth, Michael	1457413	MPS	Workshop Series to Gauge Community Requirements for Public Access to NSF-Funded Resesarch