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SHARE (SHared Access Research Ecosystem) Keynote

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SHARE: A HIGHER EDUCATION SOLUTION

Caroline Whitacre
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SHARED ACCESS RESEARCH ECOSYSTEM

• The OSTP memorandum of February 2013.

• John Holdren directed each Federal agency with >$100m in federally funded research to develop a draft plan for the public access of peer-reviewed publications and digital data within 6 months.
Those 23 draft plans were developed and are starting to be made public.

Possible mechanisms for complying with directive:
- Expansion of existing NIH PMC
- Individual institutional approach (at PI level)
- Publishers system (CHORUS)
- Consortium of higher education institutions
SHARED ACCESS RESEARCH ECOSYSTEM

• A partnership of higher education associations: AAU, APLU, ARL

• A community-facing initiative involving IT professionals, librarians, research officers, digital repository managers, scholarly societies, publishers, private funders, and more
FORMATION AND CONTEXT OF SHARE

• Steering group formed to plan the SHARE project – fall 2013
• Composed of librarians, IT experts, reps from AAU, APLU and a research officer
• Working groups formed for technical, repository community, workflow, rights and communications
PROBLEM STATEMENT

• Difficult to keep abreast of the release of publications, datasets, and other research outputs

• No single, structured way to report research output releases in timely and ubiquitous manner

• My personal concern: multiple sets of rules researchers have to abide which differ by funding agency
ADDRESSING THE PROBLEM

• The first project SHARE is addressing is a notification system
• Aims to notify stakeholders when research release events occur – publications, presentations, release of data, etc.
• Let key stakeholders know in a timely, structured and comprehensive manner
CHALLENGES

Preservation of, access to, & reuse of research outputs
CHALLENGES

Infrastructure

Preservation of, access to, & reuse of research outputs

Workflow

Policy
CHALLENGES

Infrastructure

Preservation of, access to, & reuse of research outputs

Workflow

Multiple siloed systems = Administrative burden

Policy

Varied repository platforms/capacities
Standards and Protocols
Identifiers

Public access
Open access
Copyright
Data management & sharing
PROBLEM SPACE

Knowing who is producing what, and under whose auspices, is critical to a wide range of stakeholders - funders, sponsored research offices, government agencies, tenure and promotion committees, and repository managers, and the research community.
SHARE COMPONENTS

December 2013:

Notification Service
Registry – curated metadata
Discovery
Mining and Reuse

Alfred P. Sloan Foundation Planning Grant
EARLY 2014

- Joint grant from IMLS and the Sloan Foundation: March, 2014 through September, 2015

- $1,000,000 to develop Notification Service and long term SHARE vision
CENTER FOR OPEN SCIENCE

Mission alignment with development partner

“We foster openness, integrity, and reproducibility of scientific research”

Charlottesville, VA-based nonprofit technology start-up
TYPES OF RESEARCH RELEASE

EVENTS

Articles

Preprints

Data Sets
CONSUMERS OF RESEARCH RELEASE EVENTS

- Sponsored Research Offices
- Campus Repositories
- Funders
Welcome! You have found the technical home of SHARE Notification Service development. Please remember that we are in the very early stages of development, not even out of the prototype phase yet, so much of what is documented here will likely change in significant ways before we go into beta and full production. We would love to hear your ideas, just leave them as issues here on GitHub.

The current SHARE Notification Service demo is (usually) available at http://share-dev.osf.io. It includes:

- demonstration search interface (just to explore the data, the NS is not really about search)
- demonstration RSS feed (see Using the RSS Feed)
- and some XML lists that are a start at self-documentation (capabilities, resources, and changes)

Remember that this is all running in development mode, so it may go up and down and experience changes in the underlying data without warning.

Other resources that may be of interest include:

- SHARE Notification Service Project Plan and Architectural Overview
- SHARE Use Cases (DRAFT)
- SHARE Knowledge Base
- SHARE website at ARL
- Wiki for the Working Groups (requires login)
BENEFITS OF NOTIFICATION SYSTEM

• To track and connect a principal investigator with an award, and the research output resulting from that award.

• To enable repository managers to identify manuscripts for deposit, and University and funding agency grant administrators to determine compliance with public access policies.
BENEFITS TO RESEARCH OFFICERS

• Optimizes interaction among funded researcher, SRO, and granting agency
• Creates organic link between grant compliance and analytics for tenure and promotion and other purposes
• Enables institutions with open access policies to better facilitate and track participation
NOTIFICATION SERVICE STATUS

Initial data harvest from:

- Clinical Trials
- DOE’s SciTech and Pages
- PloS
- UC eScholarship
- Wayne State Digital Commons
- VtechWorks
- NLM PubMed Central
- CrossRef
- arXiv
- DataONE
PROTOTYPE PLANS FALL 2014

Plans for prototype expansion include 10 more campus sites from DuraSpace and bepress, inclusion of more data sets, addition of DMPTool data.

“Push API” and further subscription methods to the prototype.
GOVERNANCE

www.arl.org/share

Advisory Board & Executive Committee

Director: Tyler Walters
Operations Group

Community Working Groups
For Systems via Protocol & API

SHARE Notification Service → SHARE Registry → SHARE Discovery

- timely, structured, comprehensive
- organized and related source of linked data
- searchable and friendly
AGGREGATION/REUSE

Infrastructure

Preservation of, access to, & reuse of research outputs

Workflow

Policy