SHARE
(SHared Access Research Ecosystem)

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(a joint committee of the ARL, the AAU, and the APLU)

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What is SHARE?

- SHARE is a partnership of higher education associations:
  - ARL, AAU, and APLU

- Purpose: Network institutional, disciplinary, and data repositories to:
  - Comply with sponsoring agency requirements for public access and notify them of meeting requirements.
  - Document research objects and render them easily discoverable in a global research context.
  - Promote the use of research objects through computational means to accelerate and improve research.

- Leverages and builds upon the existing research ecosystem.

- Developing research infrastructure in the U.S. to engage in the emerging Global Research Ecosystem
  - Includes: faculties, laboratories, students, libraries, technologies, and other forms of infrastructure.
SHARE Steering & Working Groups

- **Steering Group (17)**
  - Comprised of:
    - Provost, Library directors, CIO, SRO
    - ARL, AAU, APLU, CNI, SPARC, NLM (federal agency rep), consultants

- **Communications**
  - Conveys SHARE’s developments with the scholarly communication community and general public in a timely and transparent manner

- **Workflow**
  - Engage with research community and mandating funders to ensure that the efficiency of the SHARE workflow is optimized

- **Repository Community**
  - Engage with repositories stakeholders to ensure that they are kept apprised of, and can efficiently contribute to, SHARE’s development

- **Technical**
  - Advises SHARE Steering Group on matters of technology, standards, operational policies and procedures, scale, and innovation in the development of SHARE components
Who Benefits?

**Researchers**

- Current funder workflows have 20+ steps
- Multiple funders = tangle of compliance requirements and procedures
- Potential to overwhelm PI’s
- Opportunity space for optimizing workflow
- Better compliance = more information to be discovered, reused, and mined

**Funding Agencies**

- Streamlines receipt of information about funded research outputs
- Increases likelihood of compliance and data integrity
- Metrics and other participation data to help measure impact and compliance
- Discovery layer via IRs or centralized repository a possible access and preservation solution
## Who Benefits?

### Universities
- Optimizes interaction among funded researcher, SRO, and granting agency
- Creates organic link between grant compliance and analytics that universities use for tenure and promotion and other purposes
- Enables institutions with open access policies to better facilitate and track participation
- Increases content in IR
- Better compliance = more information to be discovered, reused, and mined

### General Public
- Makes it easier for public to access, reuse, and mine research outputs and research data
- SHARE’s adoption of standards and protocols will make it easier for commonly used search engines and third-party services to render information discoverable and usable
- Involvement of universities, provides signal of confidence that access will be available over the long term
SHARE Components

Current:
- Notification Service: Project underway

Concurrent planning:
- Registry layer
- Discovery layer
- Aggregation layer
SHARE: Notification Service

Dilemma:
- Stakeholding orgs find it difficult to keep abreast of the release of publications, datasets, other research outputs
- No single, structured way to report research output releases in timely and ubiquitous manner

Outcome and Goal:
- Address the system-wide problem of knowing that research output exists—that an article has been published, a pre-print shared, or a dataset made available
- Enables, in the short-term:
  - Repository Managers to identify articles/papers/reports for deposit
  - University and funding agency grant administrators to determine compliance with public access policies
SHARE Research Release Events

- Source
- SHARE Notification Service
- Reports

SHARE Notification Service Event Report
- Contextual Information
- Event Metadata
- Resource Metadata
SHARE Research Release Events

SHARE Notification Service

Notifications

Consumer

SHARE Notification Service Event Notification

Report Metadata

Event Metadata

Resource Metadata
Future SHARE Components:

Registry layer
- Accommodate research datasets, scholarly and scientific publications
- SHARE leaders foresee that research information systems can be leveraged and modified to meet, in part, the goals of this leg of the program

Discovery layer
- Comprised of new and existing systems
- Optimized by interested parties, improve finding research outputs across repositories
- Leverages and adds value to the more than 400 open access repositories in operation in the United States and over 2,200 worldwide

Aggregation layer
- Moves beyond curation and discovery
- Facilitates mining, analysis, and visualization of large corpora of text, image, and other data as well as other community-driven value added services
- There are “at scale” initiatives that SHARE envisions exploiting in the use and analysis of research content
New Development – Rights Strategy

• …Coordinated with AAU and APLU

• Includes the promotion of university-based open access policies and favorable licensing terms

• Is part of the scaffolding that will enable the layers of SHARE to develop

• SHARE will look to the leadership and experience of SPARC and COAPI on this effort
Recent Grants News:

- $1M Sloan Foundation and IMLS funding
  - Technical Project manager: search underway
  - IMLS desires to see SHARE formalize involvement of federal agencies