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

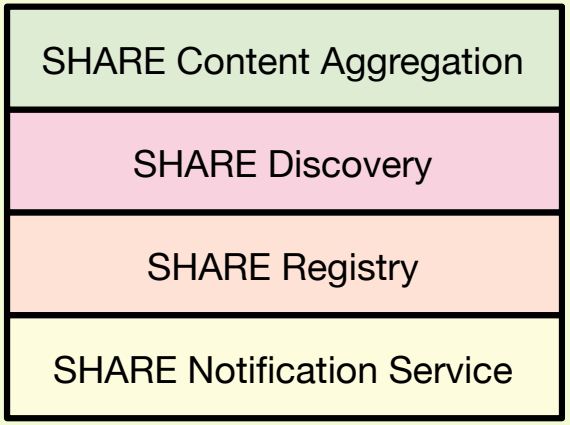
SHARE Components

Current:

- Notification Service: *Project underway*

Concurrent planning:

- Registry layer
- Discovery layer
- Aggregation layer



SHARE: Notification Service

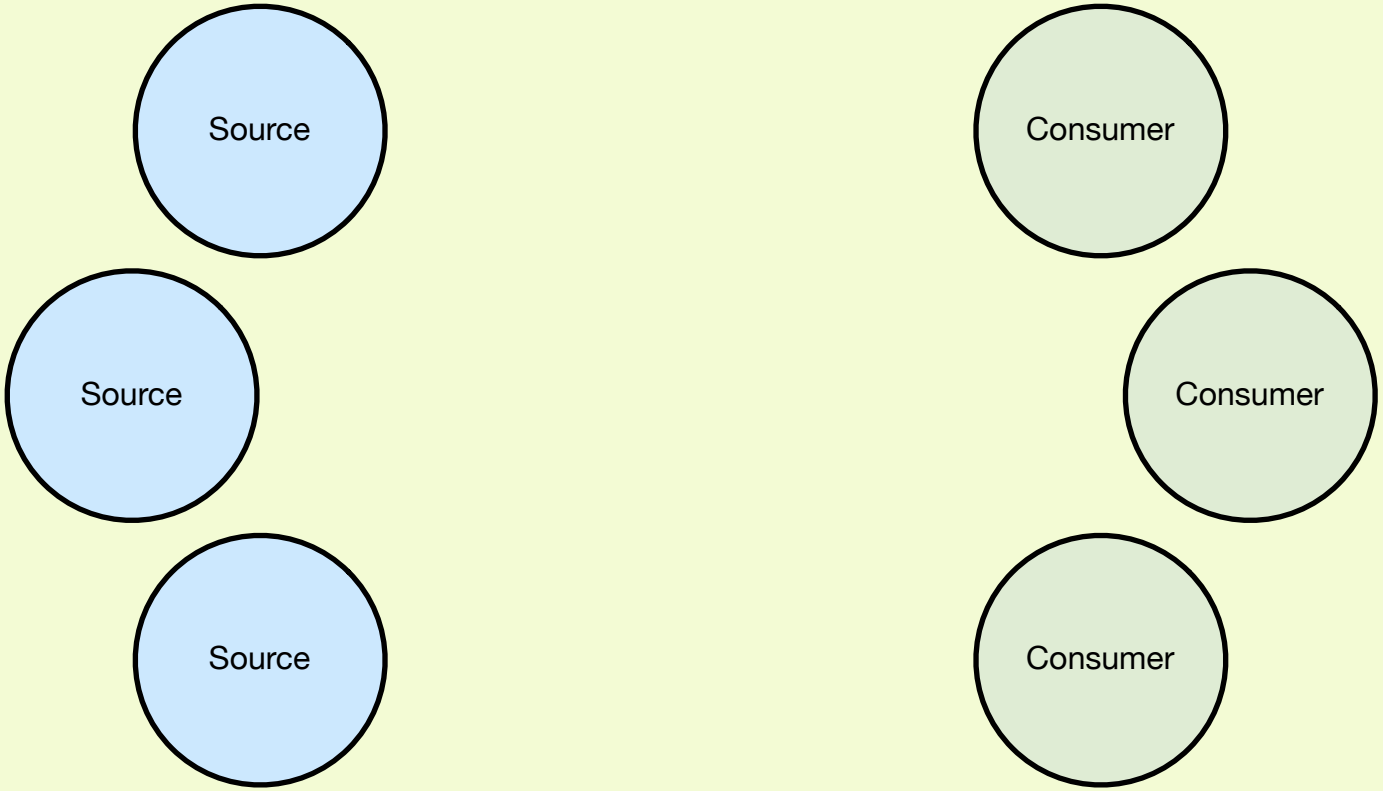
Dilemma:

- 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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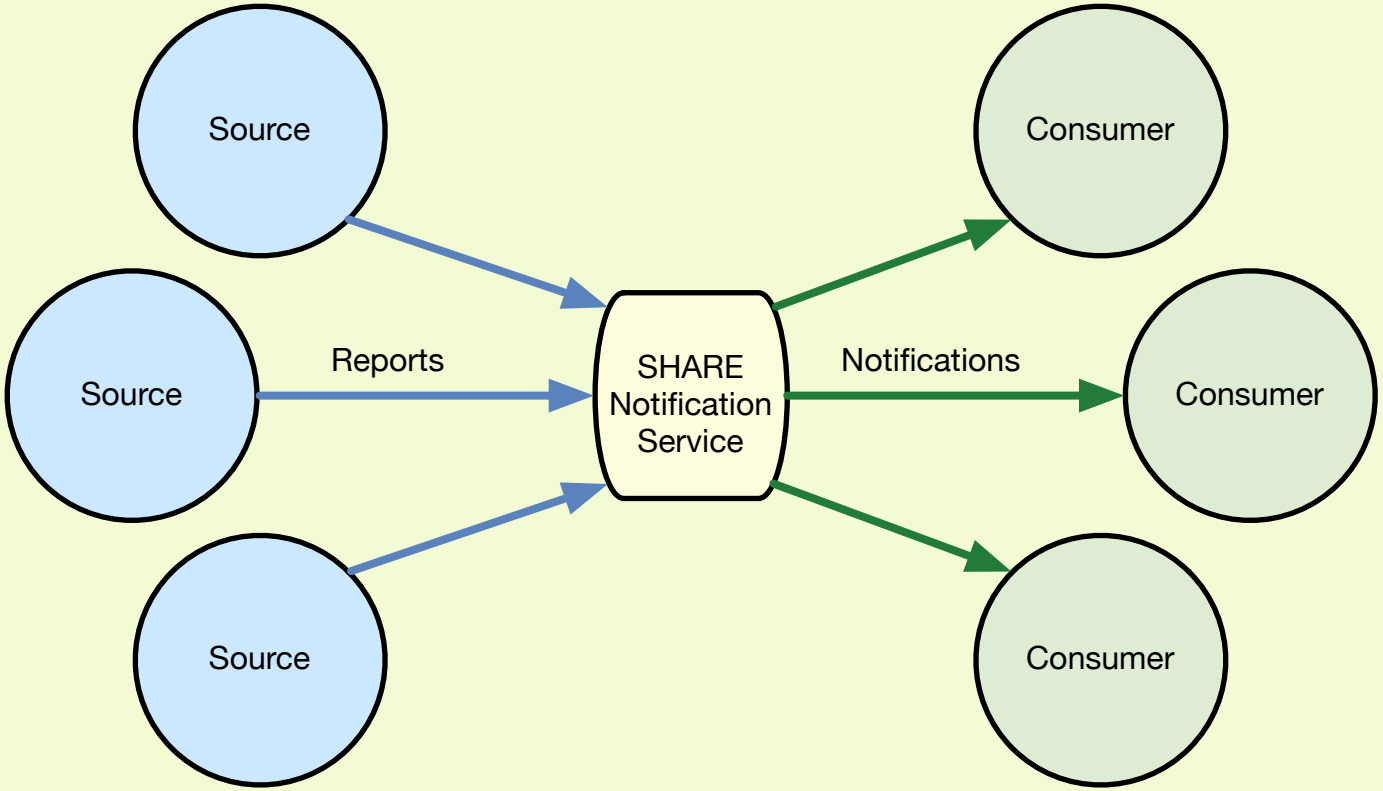
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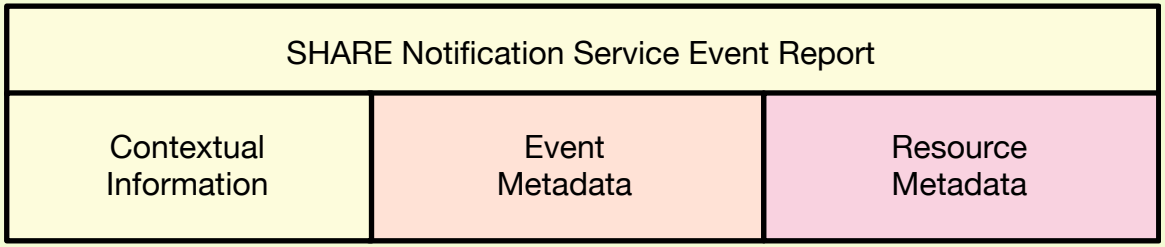
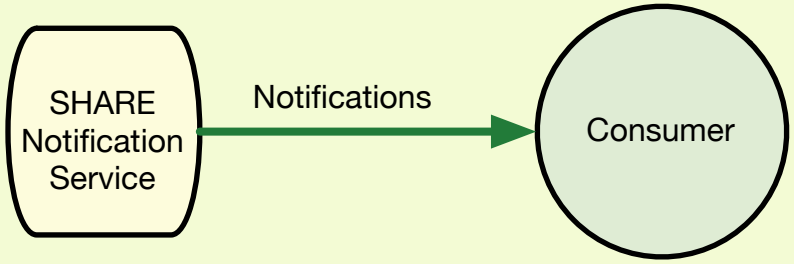
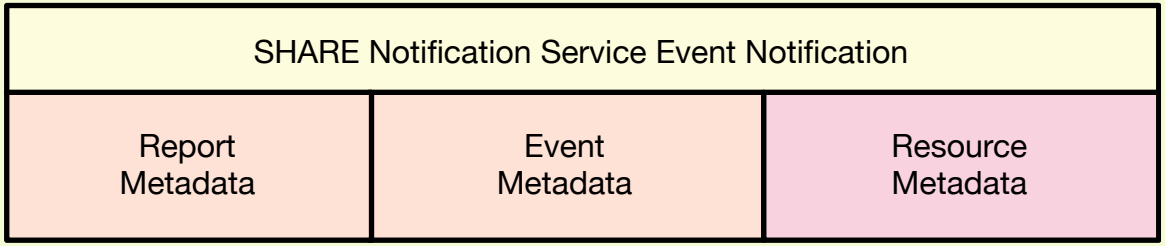
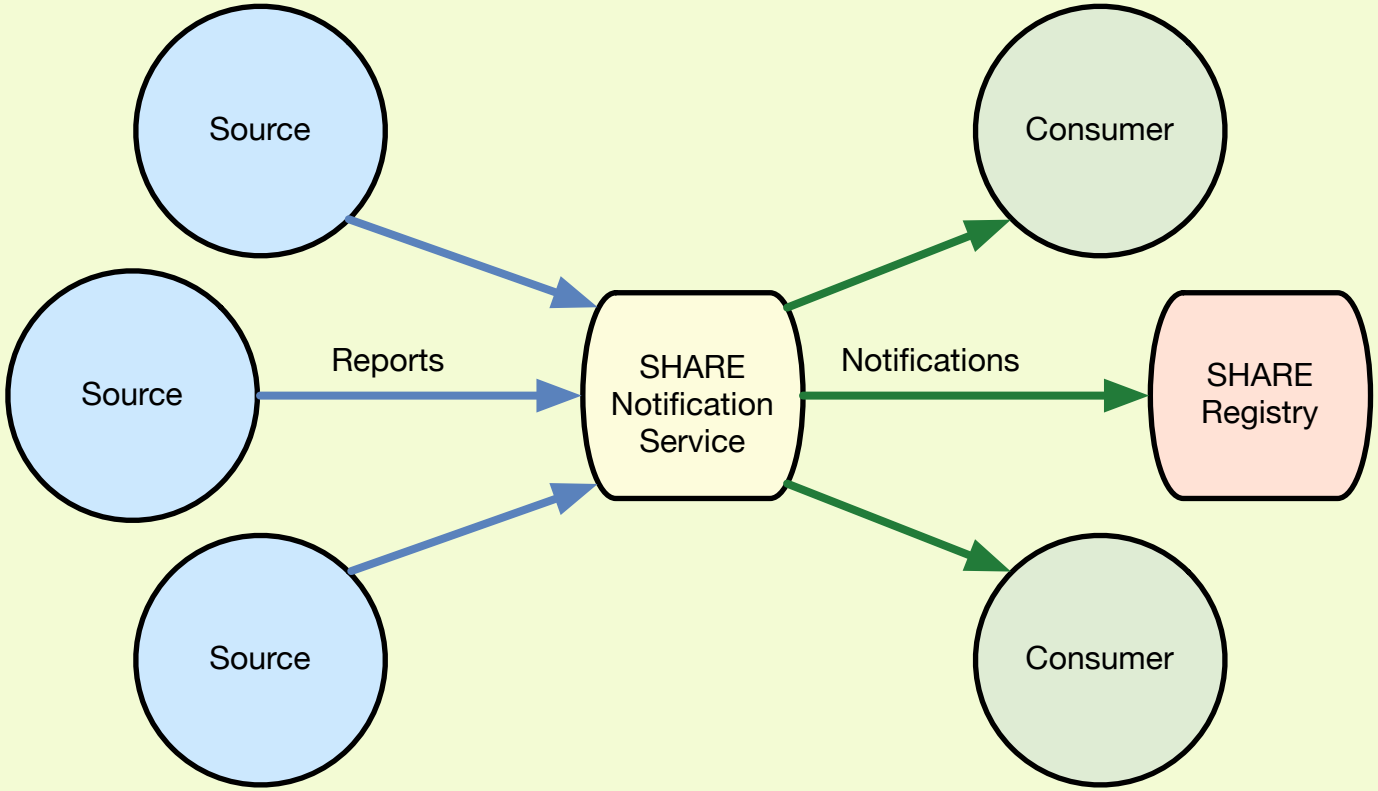
SHARE Research Release Events



SHARE Research Release Events



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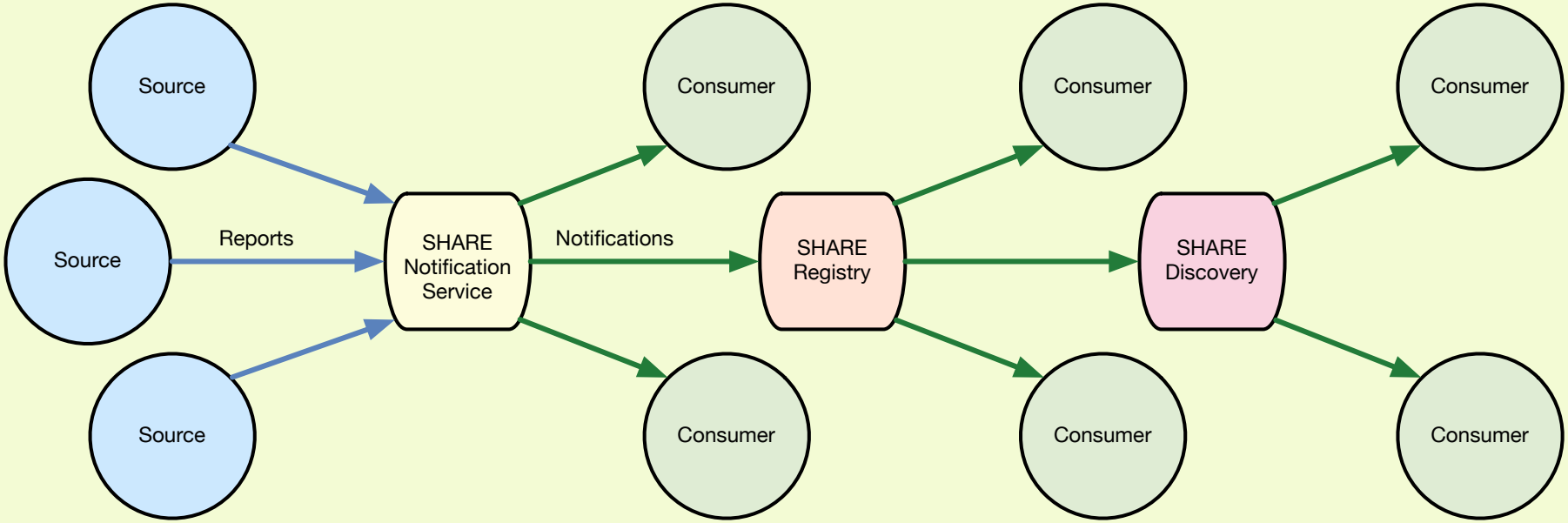
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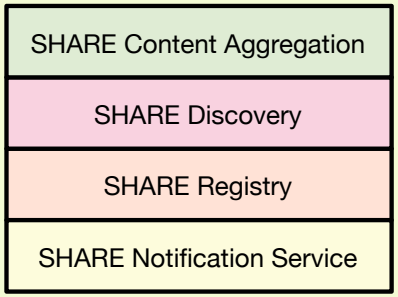
Future SHARE Components:



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 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

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