Increasing Access to the Results of Federally Funded Scientific Research

All federal agencies funding $100M or more annually in extramural research must develop public access plans.

Free public access to peer-reviewed research articles (guideline: 12-month embargo, adapted to agency/discipline need).

Ensure interoperability and long-term stewardship.

Issued February 2013
Agency plans under development with OSTP
DOE issued plan 24 July 2014

Need plans for both articles and data.
CHORUS advances sustainable, cost-effective public access to articles reporting on funded research in ways that benefit all in the scholarly communications community.

- 501(c)(3) not-for-profit membership organization
- Maximizes interoperability by employing widely used standards and infrastructure
- Policy agnostic – works across a spectrum of funder policies, gold and green OA business models, publishing platforms
- Broadens the dialogue among publishers, societies, funders, service providers, researchers, and other stakeholders
Cost-effective Public Access Solution

Builds on Existing Infrastructure

ACCESS
IDENTIFICATION
DISCOVERY
COMPLIANCE
PRESERVATION

CHORUS

Persistent Identifiers
Trusted Archives

Services
Open APIs

Publishing Platforms
Manuscript Tracking Systems

... AND MORE

ORCID

PORTICO

Crossref

eJournalPress

Editorial Manager

SCHOLARONE™

Atypon

Silverchair Information Systems

HighWire

... AND MORE

Advancing Public Access to Research | www.chorusaccess.org
US Agencies & CHORUS

Department of Defense
Announced Partnership on 3 February 2016
Signed Agreement on 18 December 2015

National Science Foundation
Announced Partnership on 30 November 2015
Signed Agreement on 1 October 2015

US Geological Survey
Announced Partnership on 16 November 2015
Signed Agreement on 23 October 2015

Smithsonian
Announced Partnership on 18 August 2015
Signed Agreement on 24 June 2015

NIST
Signed Pilot Agreement on 9 July 2015

US Department of Energy
Announced Partnership on 4 August 2014
Signed Agreement on 15 April 2015

Active discussions with 5-10 other US federal agencies
US Agency Interactions

Ingest bibliographic and compliance metadata via Open API

Securely harvest full text for indexing from publishers

Use dashboards for compliance tracking

Present metadata on agency portal

Use regular email alerts for compliance tracking

Link to full text on publisher sites via DOI

Engage with publisher members on compliance issues
Using IDs

- ORCID
- PIng Pong
- Grant ID
- Publishers
- Content DOI
- Funder ID
- Crossref
- Content DOI
- Funder ID
- Preserved
- CLOCKSS
- Verification Metadata
- PORTICO

Monitor and Audit Public Access

CHORUS
What Do Publishers Need To Do?

1. **Identification**
   - Tag content with Crossref’s Open Funder Registry ID and your embargo metadata

2. **Access**
   - Provide public access to articles on your site posted with your reuse license terms

3. **Preservation**
   - Send content to archiving service

**Discovery**
- Researchers can search and find your content using existing search engines

**Compliance**
- Researchers, Funding Agencies, Institutions can track compliance

Text and Data-Mining Services
200 Research Articles/year
Impact Factor = 12.515

<100 Research Articles/year
Impact Factor = 4.788

250 Research Articles/year
Impact Factor = 9.834

Authors retain copyright
Research articles publicly available 6 months after publication
All articles deposited to PubMed Central with a 6 month embargo
Overall reject 80% of submitted manuscripts
~50% of published articles acknowledge funding by NIH
Implementing CHORUS at RUP

- eJournal Press manuscript submission and peer review software
- automated composition with Sheridan Journal Services
- HighWire platform – moving to HW’s JCORE platform this summer

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**Identification**
- Tag content with Crossref’s Open Funder Registry ID
- Add 6 month embargo metadata

**Access**
- Provide public access to articles 6 months after publication

**Preservation**
- CLOCKSS & Portico

Apply NISO’s *Access License and Indicators* tagging with move to JATS 1.1

How CHORUS Works: Identification

...built into the author’s submission process

- Publisher Host
- Atypon
- Silverchair
- HighWire
- Crossref

and /
or

- Mine acknowledgements
- IDs obtained via Crossref API
- Copyeditors manually tag IDs
- Word → eXstyles → JATS
RUP authors confirm funder IDs at proof

Why RUP has elected **not** to gather funding ID’s at submission

- Majority of submissions are rejected
- Textual information present in acknowledgements
- Other publishers report high error/correction rate
RUP’s CHORUS Dashboard

Today's Indicators
- 69 - Publications to date
- 6.8% - Verified publicly accessible
- 0.0% - Reuse terms available
- 11.6% - Archived

Key Performance Indicators - History
Click on colored data in legend to show or hide key indicator lines

Key Performance Indicators - Breakdown

Agencies
Data below represents articles from Publisher Members reporting on research funded by the agency
Click on colored bars or funder name to view underlying data for that funder and to click through to DOI links to journal articles on publisher’s sites
At Least 764 Access Policies to Track

Less than 25% compliance across institutions*

<table>
<thead>
<tr>
<th>POLICY MAKER TYPE</th>
<th>NUMBER OF KNOWN POLICIES</th>
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<tbody>
<tr>
<td>Funder</td>
<td>79</td>
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<tr>
<td>Funder and Research Organization</td>
<td>53</td>
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<tr>
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<tr>
<td>Research Organization (e.g., University or Research Institution)</td>
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<tr>
<td>Sub-unit of Research Organization (e.g., Department, Faculty, or School)</td>
<td>70</td>
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<tr>
<td><strong>Total Known Policies</strong></td>
<td><strong>764</strong></td>
</tr>
</tbody>
</table>

Numbers via ROARMAP 05/05/16

Slide courtesy of David Crotty, OUP