



Advancing Public Access to Research

Supporting US Funder Compliance

COGR Meeting, 9 June 2016

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[@chorusaccess](#) | www.chorusaccess.org

Access • Discovery • Compliance • Identification • Preservation

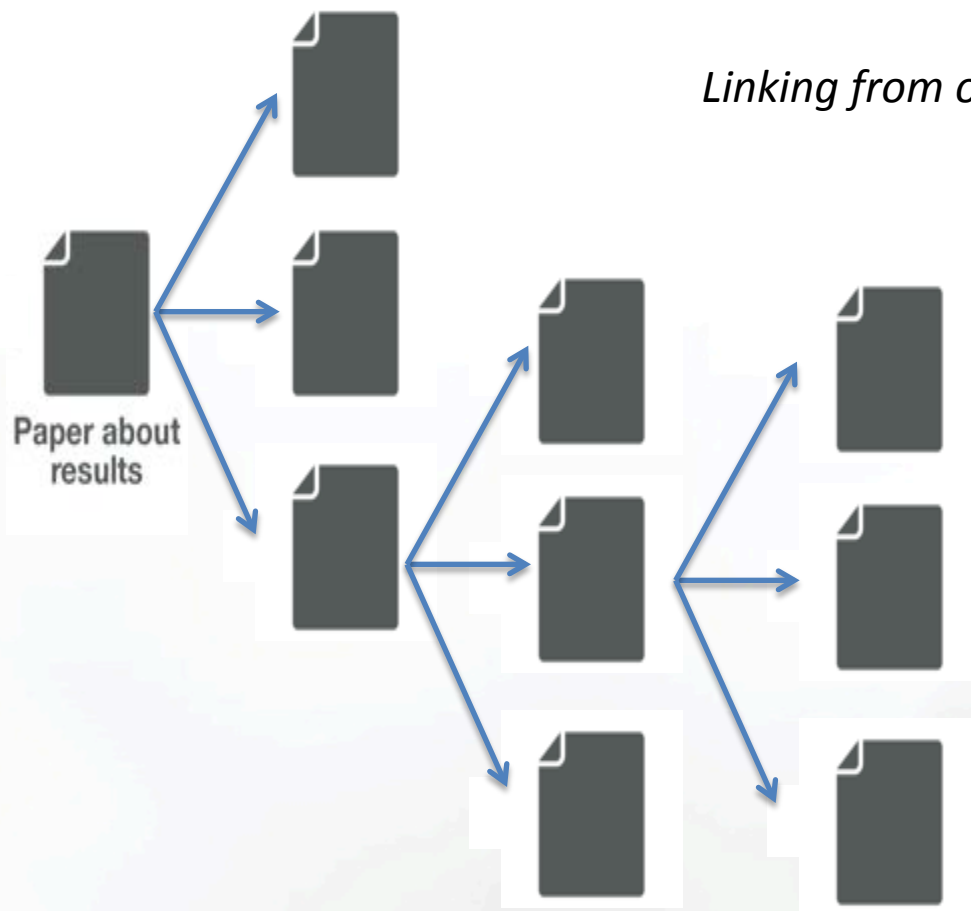


A Story about Efficiencies





A Story about Efficiencies



Linking from one paper to another at scale



Crossref

Current Mission statement:

“Crossref’s goal is to be a trusted collaborative organization with broad community connections; authoritative and innovative in support of a persistent, sustainable infrastructure for scholarly communication”

Where Crossref started

- Not-for profit: founded in 2000
- Set up by publishers to enable reliable reference linking.
- Bringing together publishers and their data for the benefit of the whole community.
- 16-member international board of directors from membership
- Based in Oxford, UK and Boston, USA

What Crossref does


- Network for scholarly community (over 5,000 publisher members)
- Run services publishers cannot do individually
- Facilitator for industry technical innovation
- Extended to include other data and services that address the status and relationships of and between scholarly works of all kinds.
- Engage many types of organizations: Publishers and “non-publisher” publishers; Commercial and non-profits; OA & Subscription; Funders; Researchers; Libraries

The DOI

- Digital Object Identifier
- Solves link rot (broken links)
- Uniquely identifies a piece of content
- Actionable
- Trademark of the International DOI Foundation (IDF)
- ANSI/NISO Standard Z39.84-2005 (R2010)
- ISO Standard 26324:2012



**81,000,000
content items**

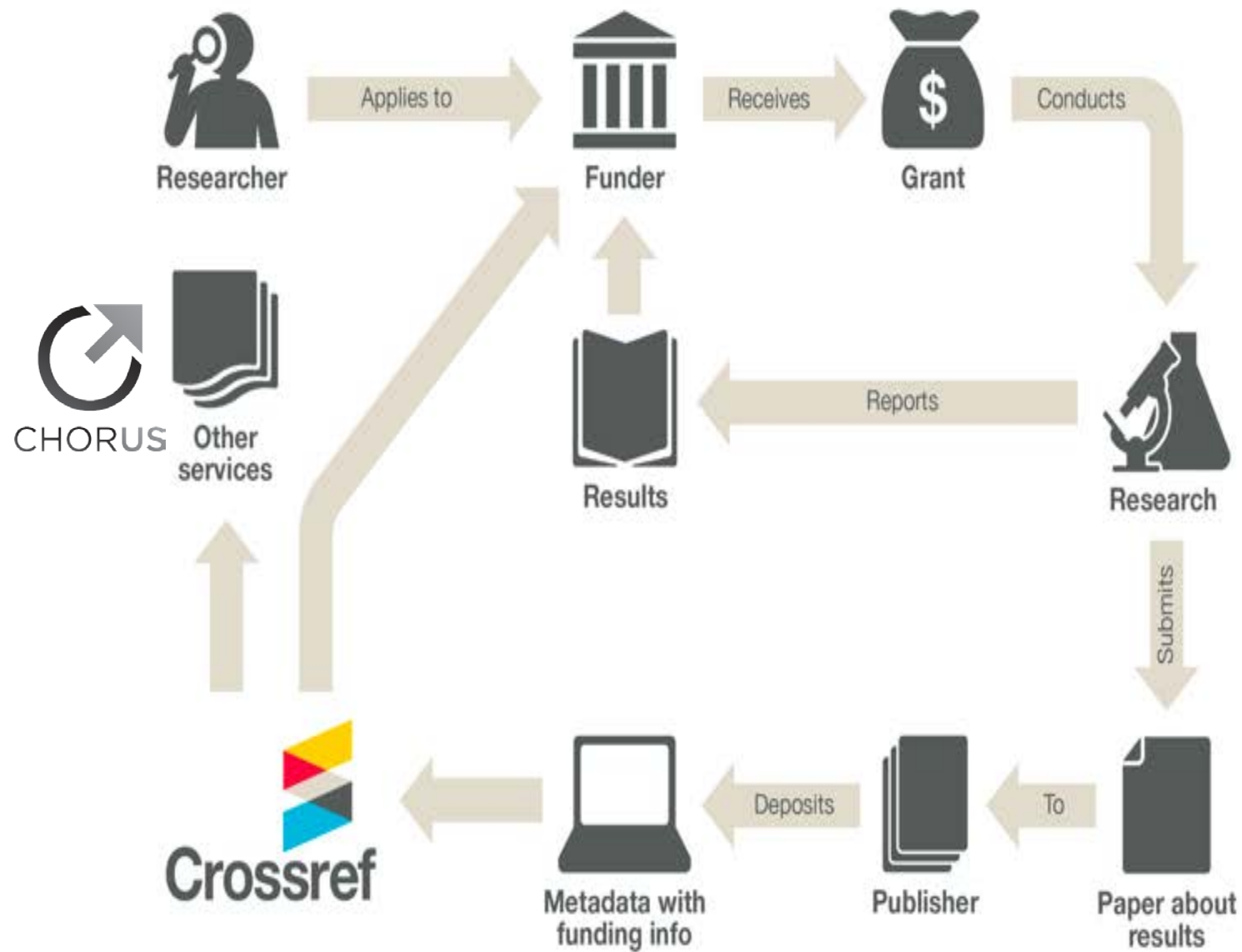


**Over 1 billion DOI
resolutions per
year**

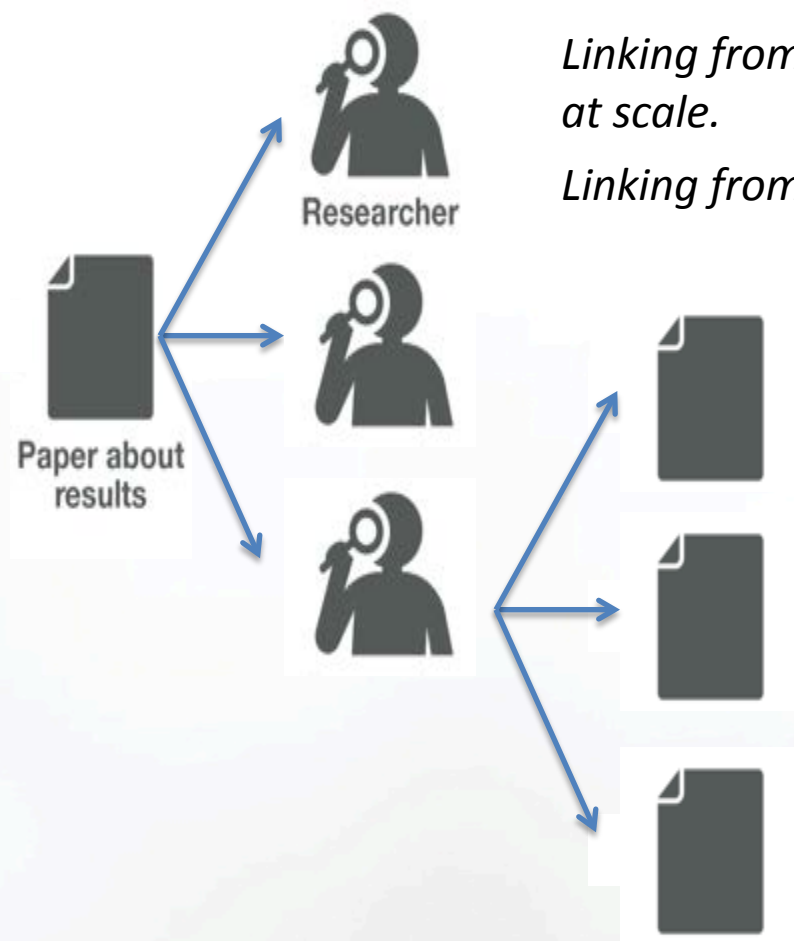


DOIs aren't just for articles

- Journals
- Books
- Conference proceedings
- Standards
- Technical reports
- Working Papers
- Theses and dissertations
- Components (figures, tables)
- Datasets (supplementary data)
- Databases



A Story about Efficiencies



Linking from a paper to its author information at scale.

Linking from a researcher to their papers at scale.



ORCID's vision is a world in which all who participate in research, scholarship, and innovation are uniquely identified and connected to their contributions and affiliations across disciplines, borders, and time.



What is ORCID

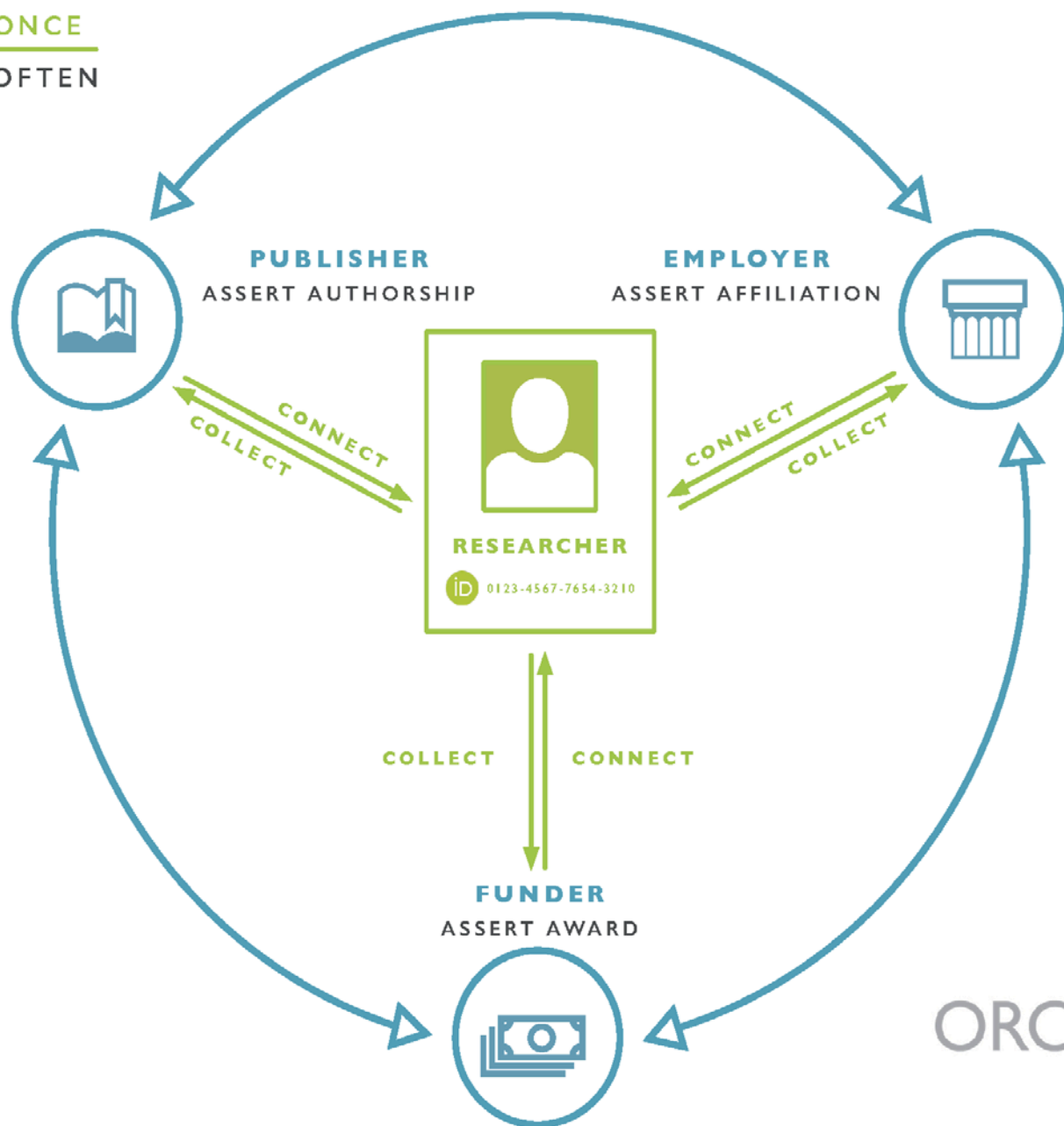
- ✓ ORCID is an open, not-for-profit organization that serves the research community by collaborating and innovating with organizations like yours.
- ✓ We provide unique ORCID identifiers free of charge to individuals, allowing them to reliably and clearly connect all participants in the research, scholarship, and innovation process with their contributions across time, disciplines, and borders



1. Reduce/eliminate need for researcher disambiguation within and between systems
2. Enable automatic system-to-system updates for researcher reporting
3. Validate your researchers' affiliation, awards, or works – building trust in the overall research infrastructure
4. Improve speed and accuracy of research reporting
5. Maintain connections with researchers despite name/affiliation changes
6. Ensures your researchers comply with funders and publishers requiring ORCID
7. Learn from other organizations' experiences and share your own
8. Be eligible for public recognition of good ORCID integrations
9. Get involved and help shape ORCID's future priorities and goals
10. Play your part in making the Internet work better

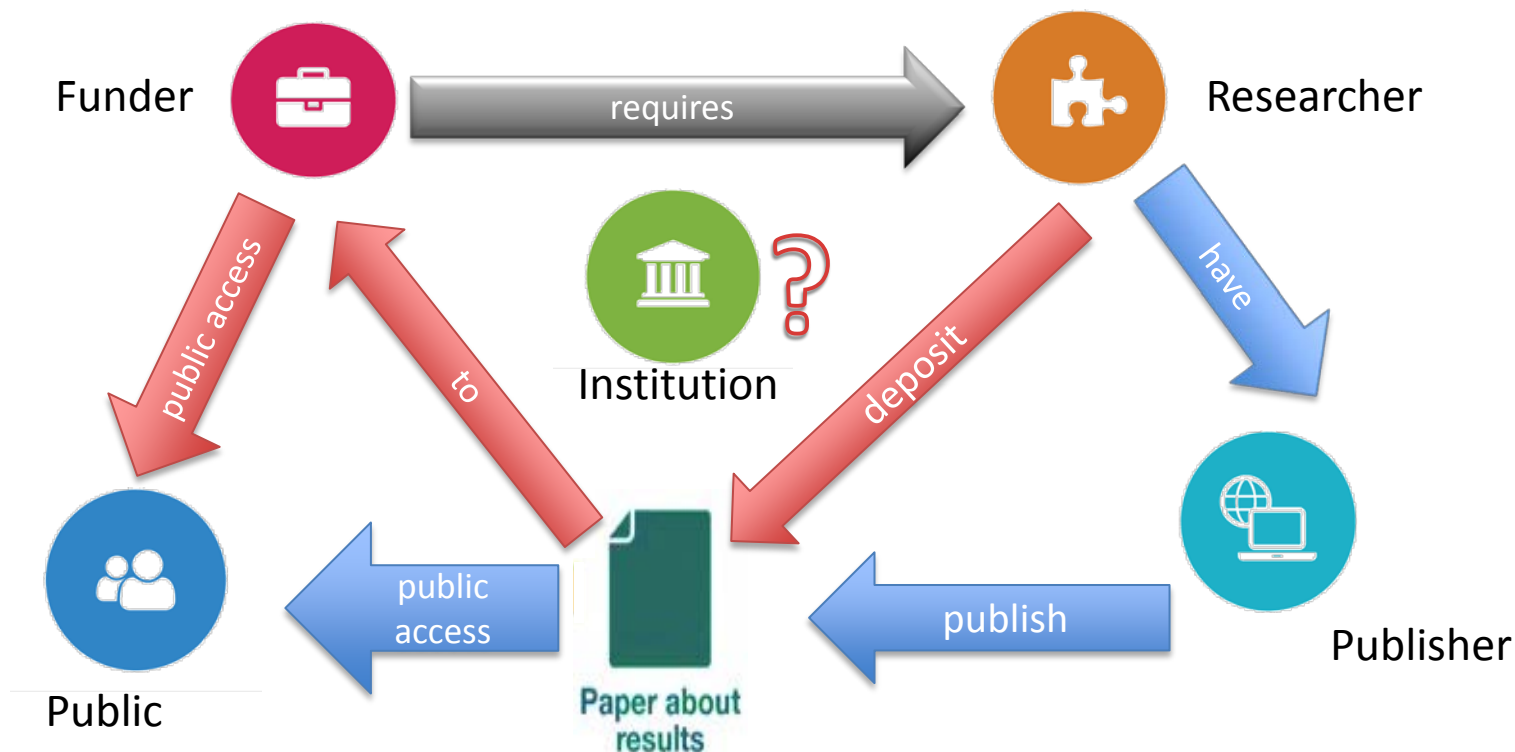
INTEROPERABILITY

ENTER ONCE
REUSE OFTEN



A Story about Efficiencies

Funders requires grantees to either deposit accepted manuscript or final articles for public access or have publisher make accepted manuscript or final article publicly accessible



Global approach to open access

Canada

Active in OA discussions and looking at gold and green

- Tri-Agency policy: gold or 12 month deposit mandate
- Gates Foundation: gold open access

United States

Federal funders formulating policies to meet OSTP directive, e.g.

- NIH (gold/green; deposit to PMC in 12 mo)
 - DOE (green or gold; public access in 12 mo. via PAGES & CHORUS)
 - NSF (gold/green; public access in 12 mo.)
- CHORUS working with DOD, DOE, NSF, Smithsonian, NIST, USGS

Europe

- UK funder mandates focused on gold (Research Councils UK & Wellcome Trust)
- VSNU driving expansion in gold open access
- Green open access mandates in Italy & Spain
- All EU members formulating open access policies at either national, funder or institutional level.

Latin America

- Focus on green open access
- Argentina: MINCYT introduced 6 month deposit mandate
- Brazil: Government formulating green open access policy
- Mexico: OA legislation passed to support repository development

Africa

- Developing repositories
- Publishers enabling philanthropic access
- New open access journals to support local research needs
- Some institutions have open access mandates, but no policies from any funders or Governments

Asia Pacific

- China: CAS & NSF; gold or green open access, deposit within 12 months
- ARC & NHMRC in Australia have 12 month self-archive mandate, as does A*Star in Singapore
- Other funders considering policy



CHORUS

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

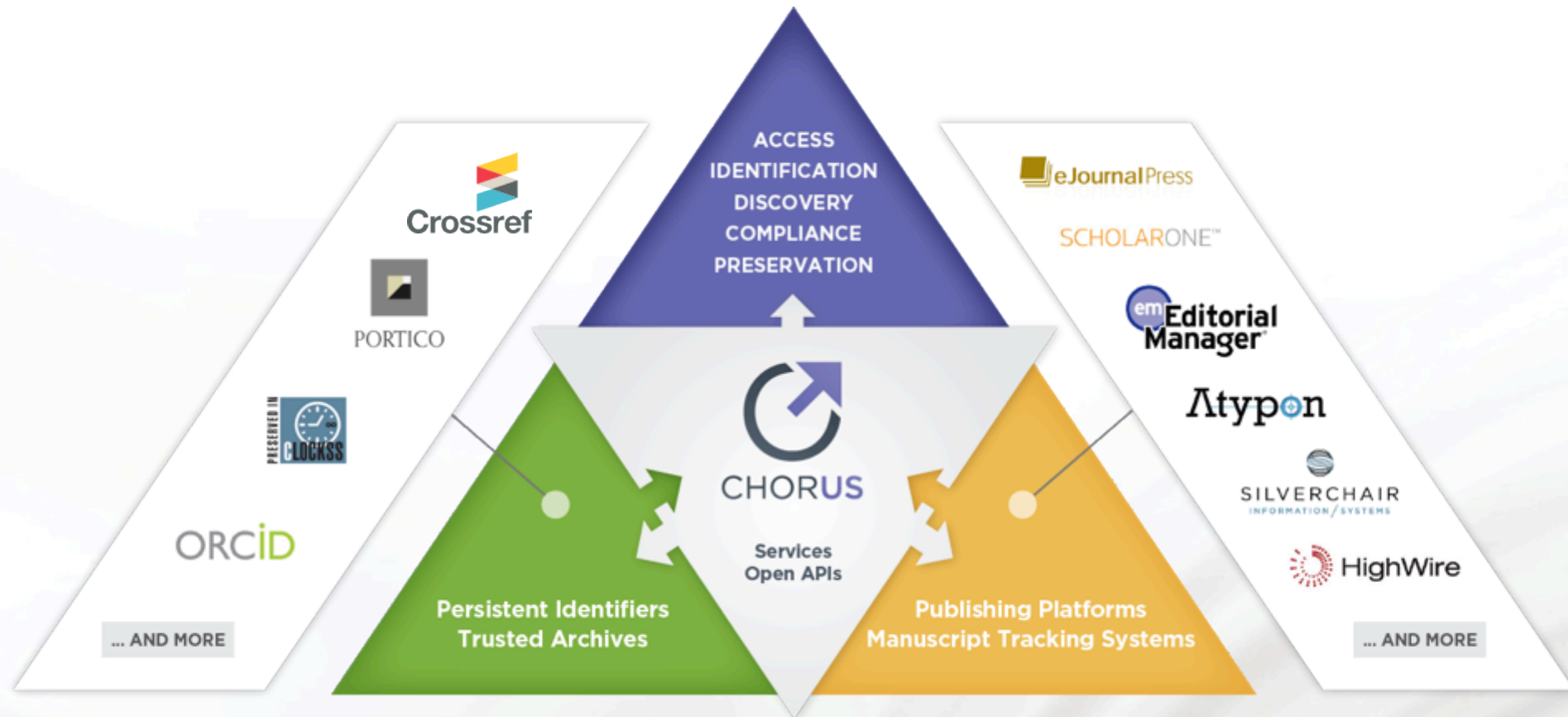
- 501(c)(3) not-for-profit membership organization
- Leverages existing infrastructure
- Promotes collaboration and compliance
- Sparks innovation
- Broadens the dialogue among publishers, societies, funders, service providers, institutions, and other stakeholders

How Does CHORUS Help?



Cost-effective Public Access Solution

Builds on Existing Infrastructure





American Chemical Society



THE ROCKEFELLER
UNIVERSITY
PRESS



Association for
Computing Machinery



Taylor & Francis Group
an informa business



THE
ROYAL
SOCIETY
WILEY

IOP Publishing

SOCIETY OF EXPLORATION
— GEOPHYSICISTS —



PLUS OVER 118
SIGNATORIES



AMERICAN
PSYCHOLOGICAL
ASSOCIATION



Atypo



CAMBRIDGE
UNIVERSITY PRESS



IEEE

semantico

siam



SPRINGER NATURE



AAP} PROFESSIONAL
AND SCHOLARLY
PUBLISHING



The Association of
Learned & Professional
Society Publishers

SILVERCHAIR
Information Systems



HighWire

Cenveo.
publisher services

US Agencies & CHORUS



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



**Smithsonian
Institution**

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



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



NIST
Signed Pilot Agreement
on 9 July 2015



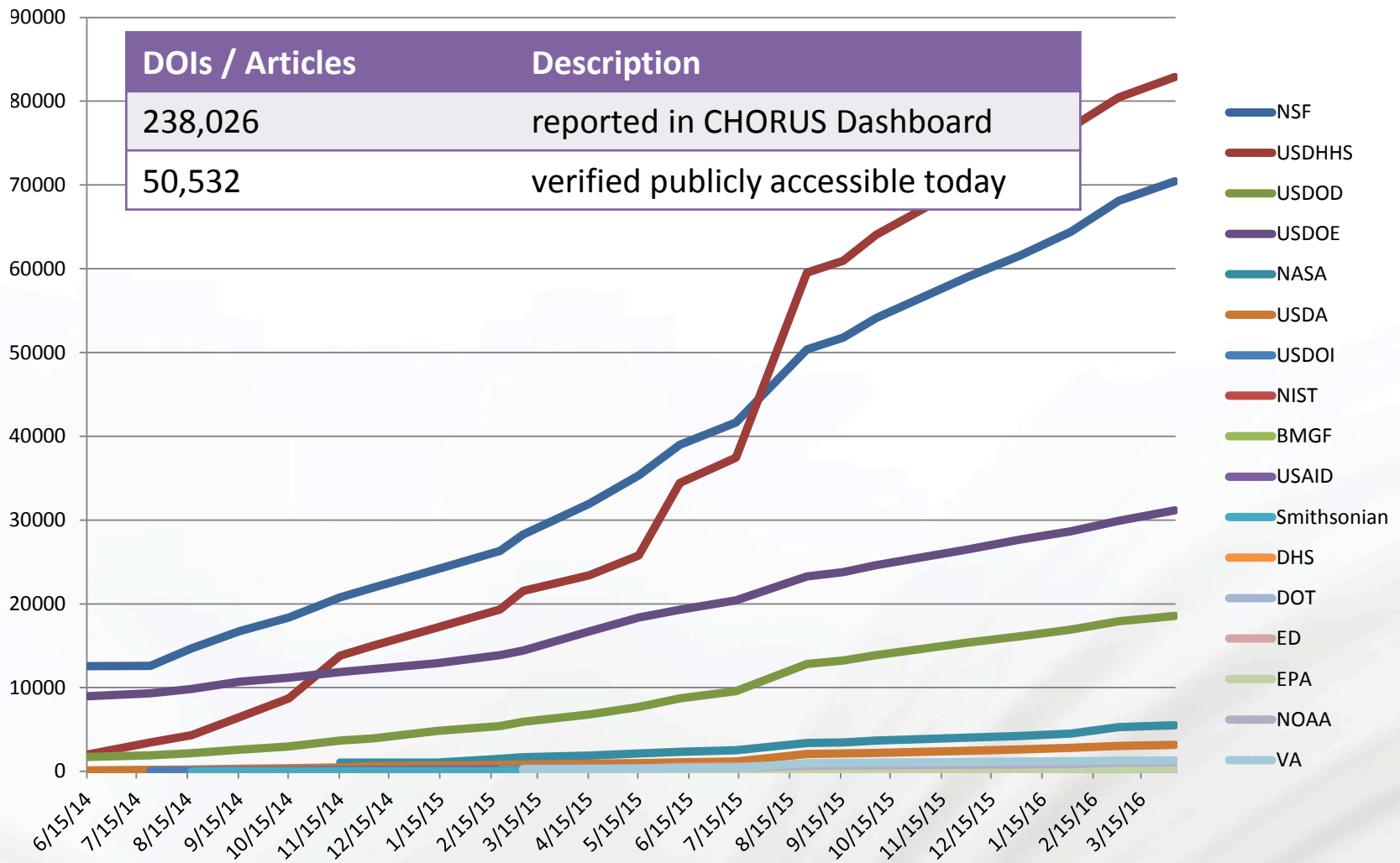
US Geological Survey
Announced Partnership
on 16 November 2015
Signed Agreement on
23 October 2015



**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

Monitored Articles by US Agency



as of 6/7/16



What Funding Agencies are Saying...

When you're a federal agency and there's a data call... it's a huge resource drain. ***With CHORUS, because they're collecting this data continuously and in a consistent way, all that's automated for us, and that's a big plus.***

Keith Kirk
USGS

Given the extremely limited budget science agencies have because of the flat funding...for over a decade, ***we needed to have a cost-effective solution...for all these agencies it's a grand experiment.***

Jeffrey Salmon
DOE

...DOE has been providing public access to research since 1947. This has meant keeping up with and implementing radically changing technology across decades...***Formalizing our collaboration can only propel our acquisition process leading to more comprehensive coverage of the landscape of articles.***

... I'd like to combine the usage statistics from PubMed Central with CHORUS's usage statistics to get a good idea of what our total usage is, so our library staff knows where to put their subscription money.

Katherine Sharpless
NIST

Jim Kurose
NSF

...we [NSF] are very much looking forward to working with CHORUS to help further our public access goals.

Reported by Lisa Peet
Library Journal, 1/21/16



How CHORUS Works: Access



Embargo Period Expires
or Author/Funder Pays for Public Access

Accepted Author Manuscript
becomes publicly accessible



Version of Record
becomes publicly accessible



Identification

Funding Information

Please enter the funder name, grant number and the grant recipient. Authors listed in the dropdown menu were added during the Add/Edit/Remove Authors submission step. Click the "+" icon to add another funder. When you are finished, click the "Next" button.

Funder Name	Grant Number	Grant Recipient	Action
Howard Hughes Medical Institute	HH 2055681	Dr. Mary François Smith	
National Science Foundation	KK9898-5476	Robert Jones	
National Institutes of Health (US)	897-42-98	Sarah Wilkes	

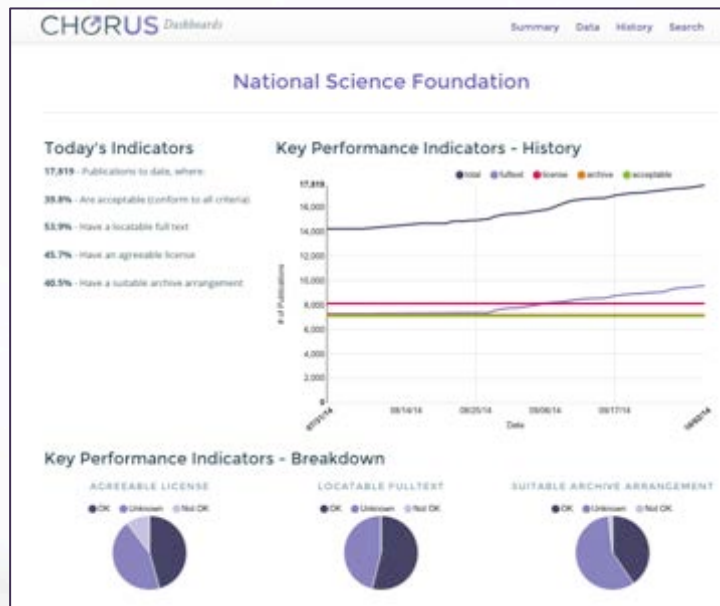
Previous Next

Metadata from
Crossref

Discovery

CHORUS Search results for National Science Foundation. The interface shows a list of publications, including "Advances in the Chemistry of Quasiprimes" by William Stein, Michael Davis, and Kevin Tashiro. A detailed view of the article is shown on the right, including the title, authors, and a list of keywords.

Compliance

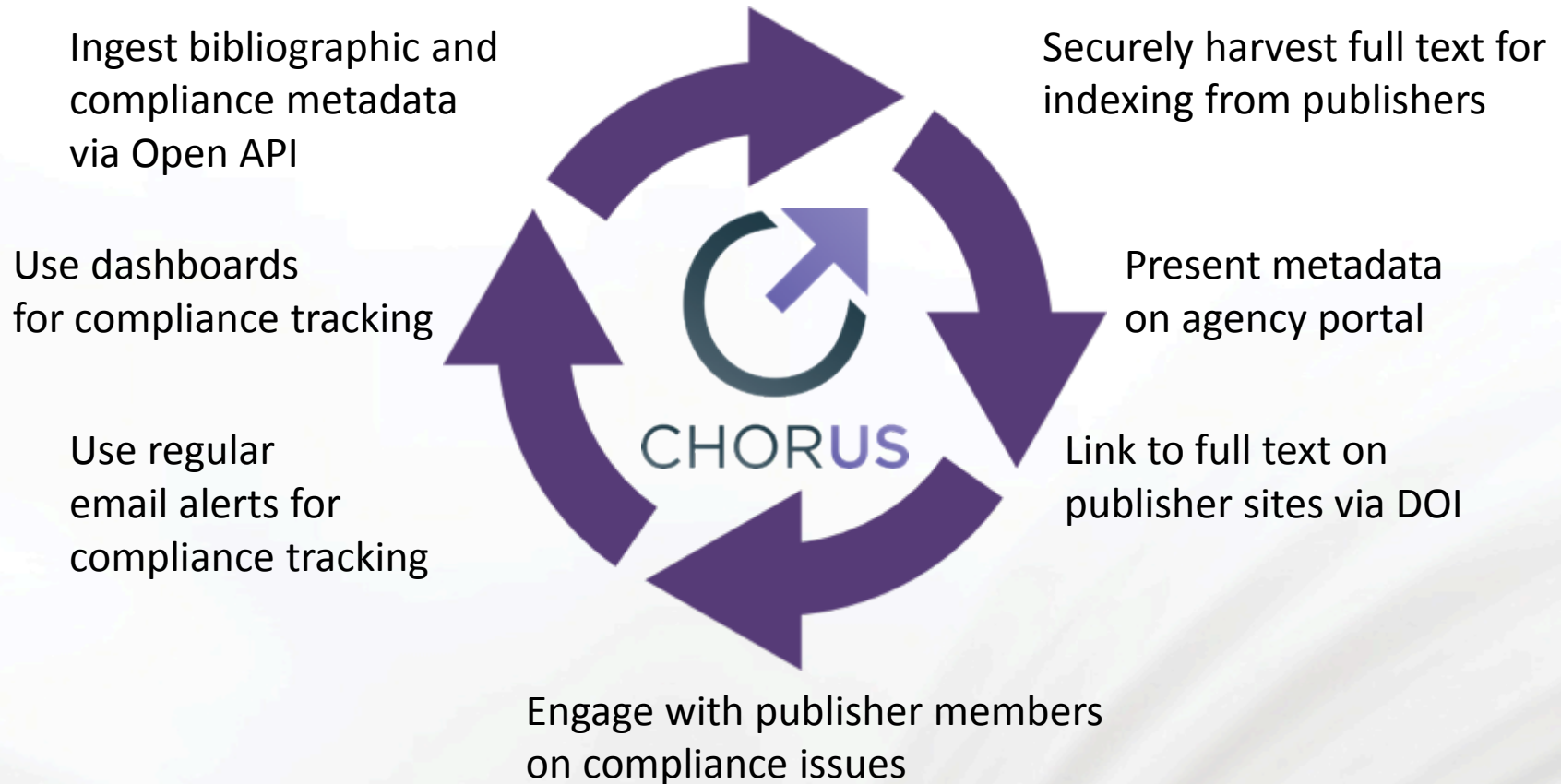


Preservation





US Agency Interactions





CHORUS + SHARE

- SHARE and CHORUS – work is complementary, not competitive
- CHORUS objective: interoperate with scholarly repositories and other systems providing access to scholarly articles
- Agreed to work jointly on persistent identifiers, metrics, and SHARE Notify system
- Exploring more areas of collaboration
- Active member of SHARE joint working group



CHORUS + Data

- Value cross-linking data and articles
- CHORUS infrastructure can link to data repositories
- Unclear if there is one unified mechanism for data and publications
- Simplify procedures for researcher compliance and funding agency monitoring
- Member RDA-WDS Publishing Data Services Working Group
- CHORUS to use standard identifier schemes





CHORUS + Academic Institutions: *Much to Learn, Much to Offer*

Active engagement with librarians and the Office of Research through an Academic Advisory Group can:

- Provide key stakeholder perspectives
- Inform the development of new CHORUS capabilities that
 - » help track faculty research output
 - » relieve administrative burden
 - » provide metrics on university research impact
- Do all of the above sustainably and cost-effectively



Librarian



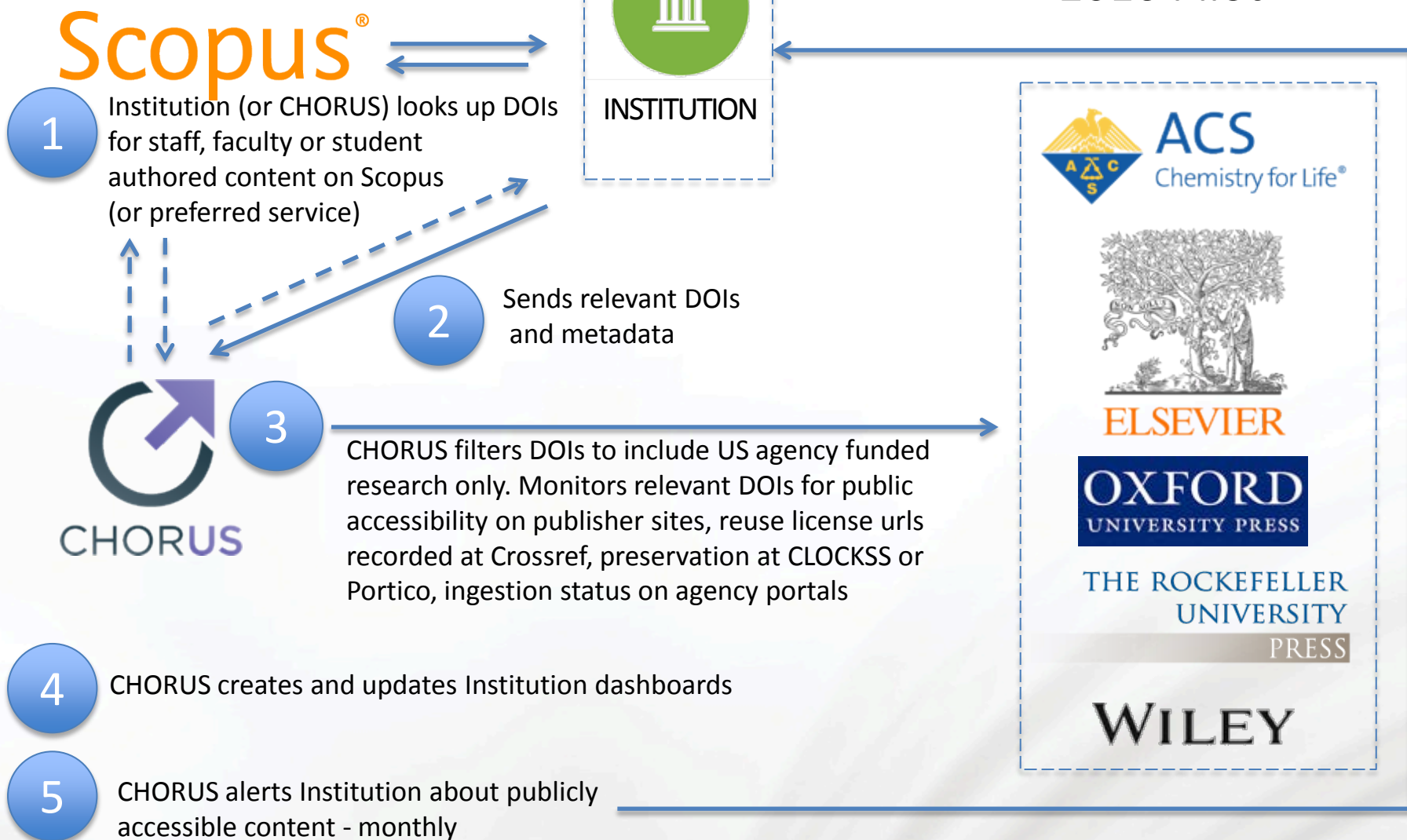
Office of
Research

CHORUS Institution Pilot



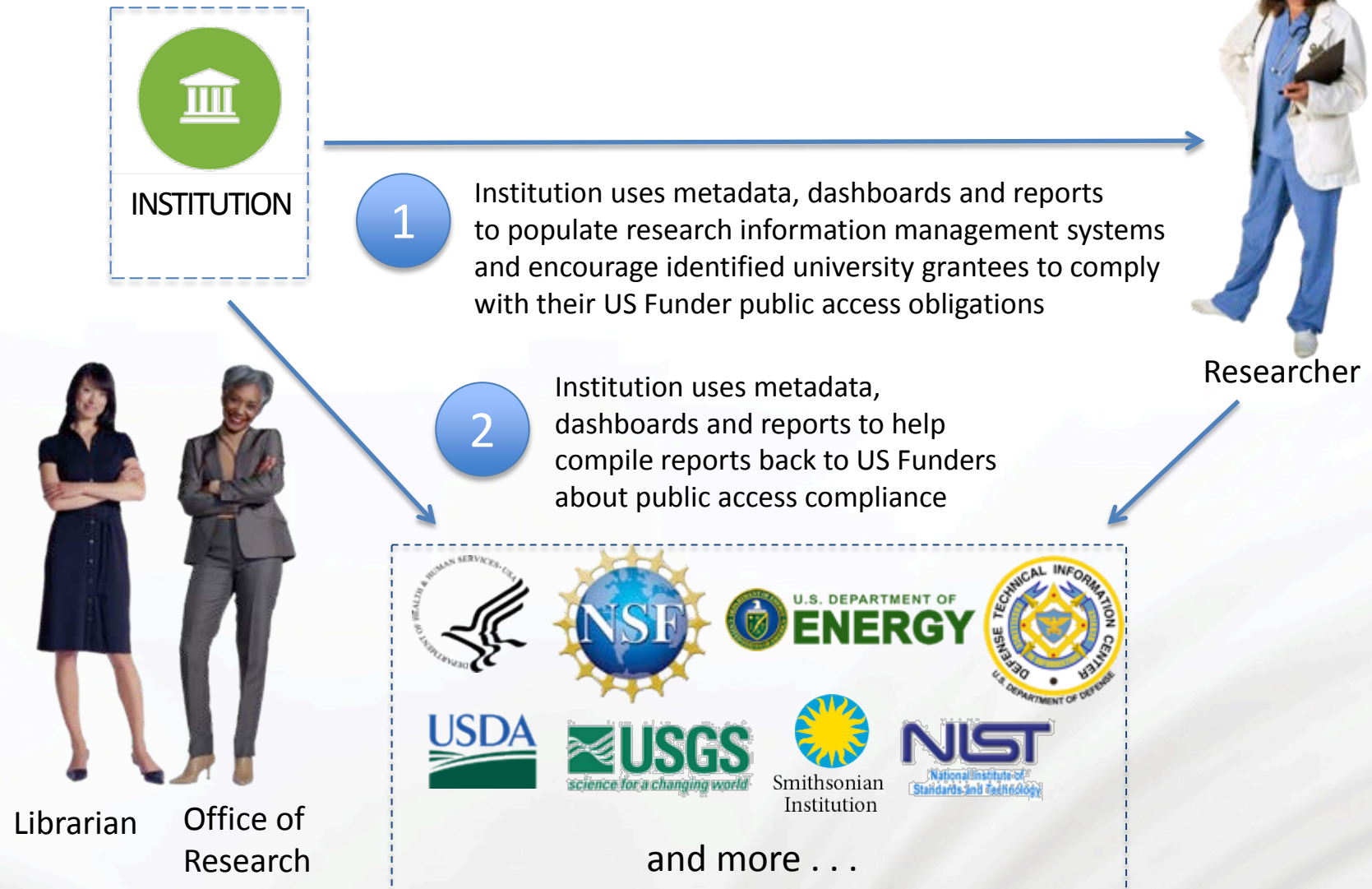
Identification

CHORUS Institution 2016 Pilot



Compliance Support

CHORUS Institution 2016 Pilot





Summary

- 1. Meets the OSTP Public Access guidelines**
- 2. Established partnerships with funding agencies**
 - *Help us grow as an authorized solution for meeting US agency policy requirements for grants and contracts*
- 3. Free to agencies**
 - *Keep agency money for research*
- 4. Efficient for universities**
 - *No added compliance burden for faculty*



Advancing Public Access to Research

Join our institution pilot and Academic Advisory Group

Contact: Howard Ratner
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