

# CHORUS

*Advancing Public Access to Research*

## STM Innovations Seminar

3 December 2014

Howard Ratner, Executive Director

CHOR Inc.

[www.chorusaccess.org](http://www.chorusaccess.org)

Identification • Discovery • Access • Preservation • Compliance

# Open Access Funder Mandates

courtesy of Oxford University Press

## OSTP

Federal agencies with \$100m+ budget must:

- Develop a mechanism to make research results available within 12 months of publication
- Make unclassified data available to the public

## HEFCE

- From 1<sup>st</sup> April 2016
- Deposit AAM in repository on acceptance (12/24 month embargo)
- Gold – no specific licence, no new funding

## RCUK

Compliant if:

- Gold – CC-BY, immediate access
- Green – CC-BY-NC, 6/12 months if gold unavailable, 12/24 months if gold available but no funding

## Wellcome Trust

- Deposit in PMC and Europe PMC within 6 months of publication
- Provides funds for APCs
- Requires CC-BY for gold

## European Commission

Research funded by Horizon 2020 made accessible from 2014:

- Gold (APCs can be reimbursed)
- Green – 6/12 months after publication

## European Research Council

- Deposit of articles in an appropriate research repository within 6 months

## Howard Hughes Medical Institute (HHMI)

- Deposit in PMC within 12 months of publication

## National Institutes of Health (NIH)

- Deposit in PMC within 12 months of publication

## FWF (Austria)

- Gold – CC-BY, funding available
- Deposit AAM in sustainable subject/institutional repository under CC-BY-NC.
- 6 (or 12) month embargo
- Deposit in Europe PMC required for life sciences

## Chinese Academy of Sciences (CAS)

- Deposit in institutional repository within 12 months of publication

## Telethon Italy

- Deposit in Europe PMC within 6 months of publication
- Will cover APCs where appropriate

## Australian Research Council (ARC)

- Free availability after 12 months in institutional repository
- No central compliance checks
- Author versions and final versions acceptable

# 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



American Chemical Society

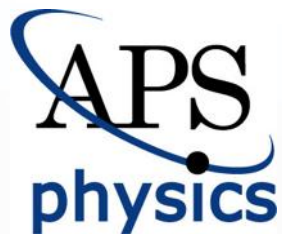


IEEE



Association for Computing Machinery

THE ROYAL SOCIETY



CHORUS  
Members



aap

ASSOCIATION OF AMERICAN PUBLISHERS, INC.



SILVERCHAIR  
INFORMATION / SYSTEMS

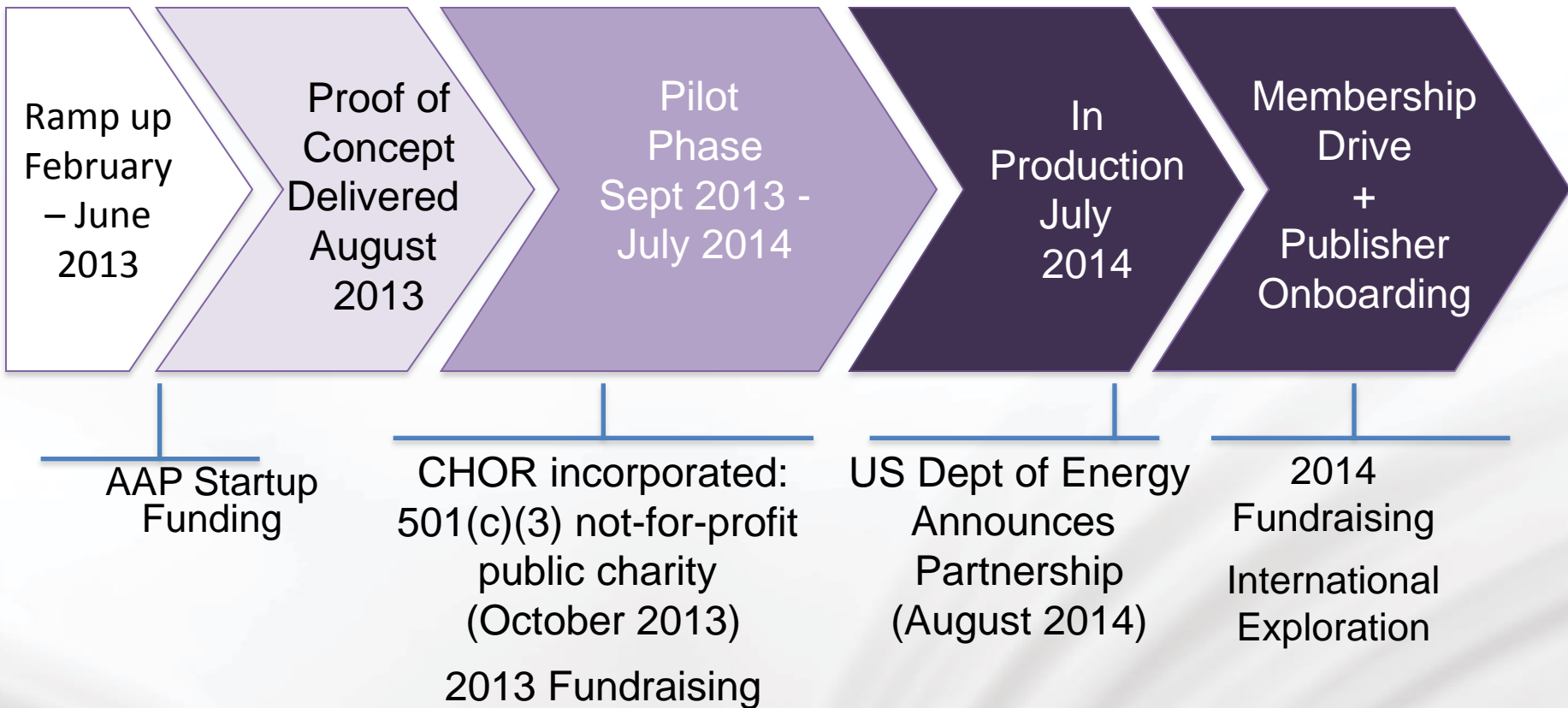
WILEY

PLUS OVER 130 SIGNATORIES

CHORUS

Advancing Public Access to Research | [www.chorusaccess.org](http://www.chorusaccess.org)

# CHORUS





# US Agencies & CHORUS

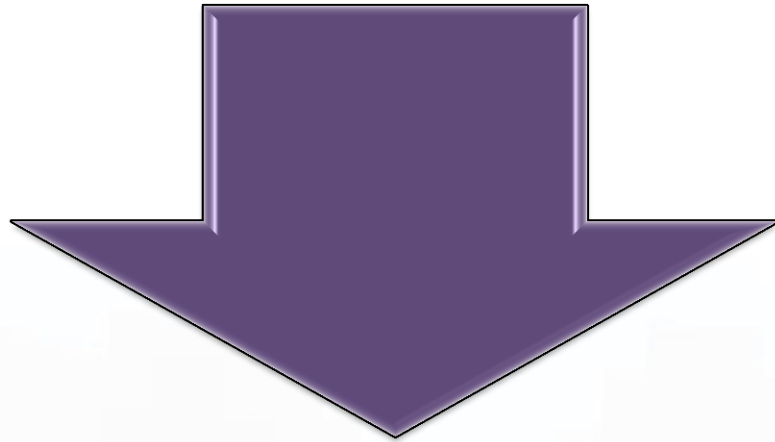


US Department of Energy  
Announced Partnership  
with CHORUS in August 2014

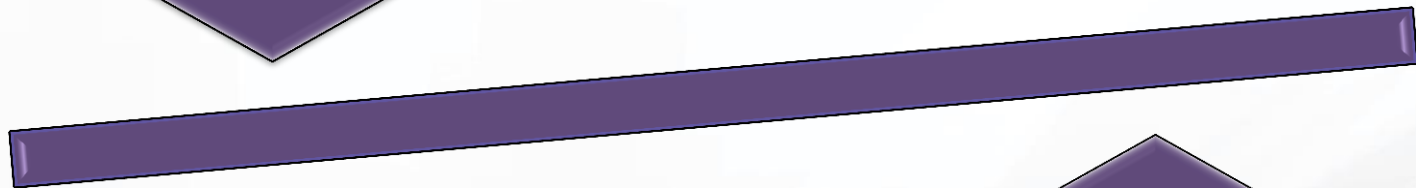


Active discussions with 5-10  
federal agencies

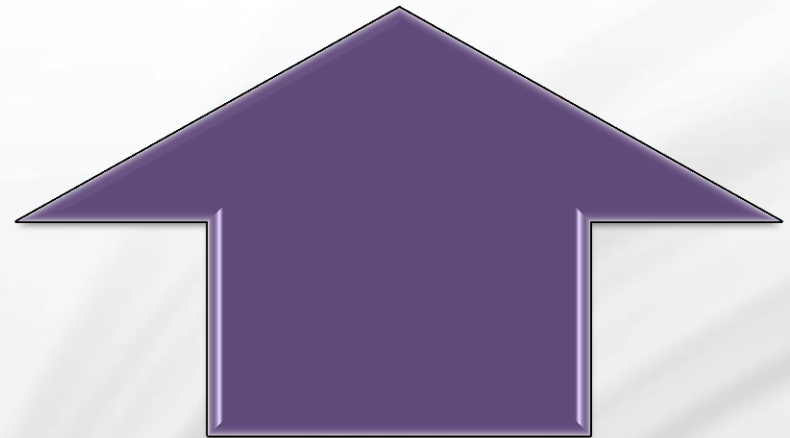
# Why CHORUS?



**Sustainable, scalable path to public access**  
**Addresses the priorities of researchers, funders, publishers, and academic institutions & libraries alike**



**Free to academic institutions & libraries and the public**  
**Cuts overhead for funders**  
**Contains costs for publishers**



# How Does CHORUS Help?

**Identification**

**Discovery**

**Compliance**

Alan  
Agency

Rachel  
Researcher

**Preservation**

**Access**

Lottie  
Librarian

Penny  
Publisher

Peter  
Public



# How Does CHORUS Help?

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Alan  
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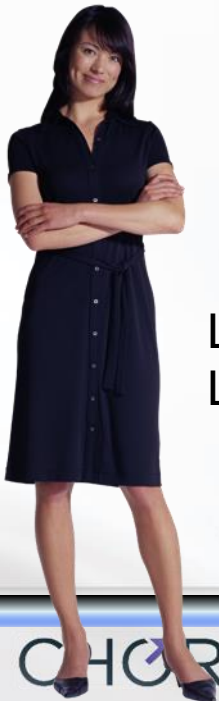
**Preservation**

**Access**

Lottie  
Librarian

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Publisher

Peter  
Public



# Cost Effective Public Access Infrastructure

*Builds on existing infrastructure of the scholarly community*





# How CHORUS Works: Access

Embargo Period Expires  
or Author/Funder Pays for Public Access

Accepted Author Manuscript  
becomes publicly accessible



via  
**Publishers  
Sites**



Version of Record  
becomes publicly accessible

# How CHORUS Works: Identification

*...built into the author's submission process*



**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



**cross** **fund** **ref** **ref**





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Previous Next

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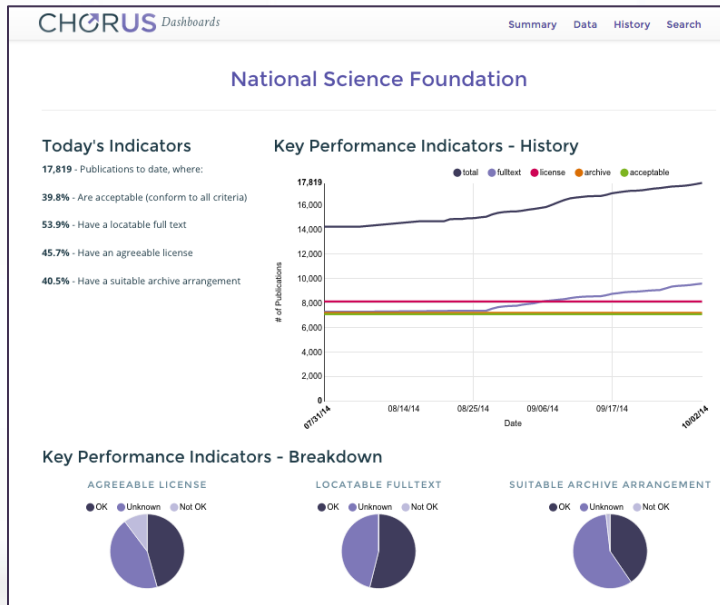
**fund** ref

# Discovery

CHORUS Search interface showing search results for 'National Science Foundation'. The results list various directorates and a specific article: 'Advances in the Chemistry of Oxaziridines'.

Below, a screenshot of the PAGES website search results for 'penguin'. The results list three items related to CP violation and pseudoscalar mesons.

# Compliance



# Preservation





# Identification

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**fund** **ref**

# Discovery

CHORUS Search

search.chorusaccess.org/?q=10000001&us-only=t

NATIONAL SCIENCE FOUNDATION

Advances in the Chemistry of Oxaziridines

Journal article published 27 Aug 2014 in Chemical Reviews volume 114 issue 16 on pages 8016 to 8036

Research funded by National Institutes of Health | National Science Foundation

Author: William Kevin S. Michaels David J. Yoon Tehshih P. (http://dx.doi.org/10.1021/cr40041n) Actions

Protonic effects on the dynamics and outcomes of scientific collaborations

DEPARTMENT OF ENERGY

PAGES

Search for: penguin

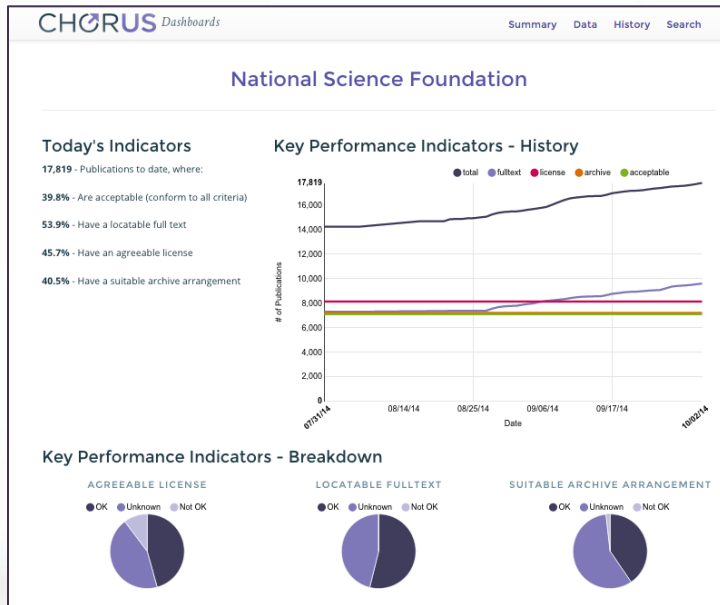
Total Results: 63

1. Size of direct CP violation in singly Cabibbo-suppressed D decays  
Brod, Joachim; Kagan, Alexander L.; Zupan, June Liu; Mar 2012, American Physical Society

2. CP asymmetries in singly-Cabibbo-suppressed D decays to two pseudoscalar mesons  
Bhartsharya, Shubanjyoti; Gronau, Michael; Rander, Ranjan; Jonathan L. Mar 2012, American Physical Society

3. Shift in weak phase  $\phi$  due to CP asymmetries in D decays to two pseudoscalar mesons  
Bhartsharya, Shubanjyoti; Gronau, Michael; London, David; Rander, Ranjan; Jonathan L. Apr 2013, American Physical Society

# Compliance



# Preservation

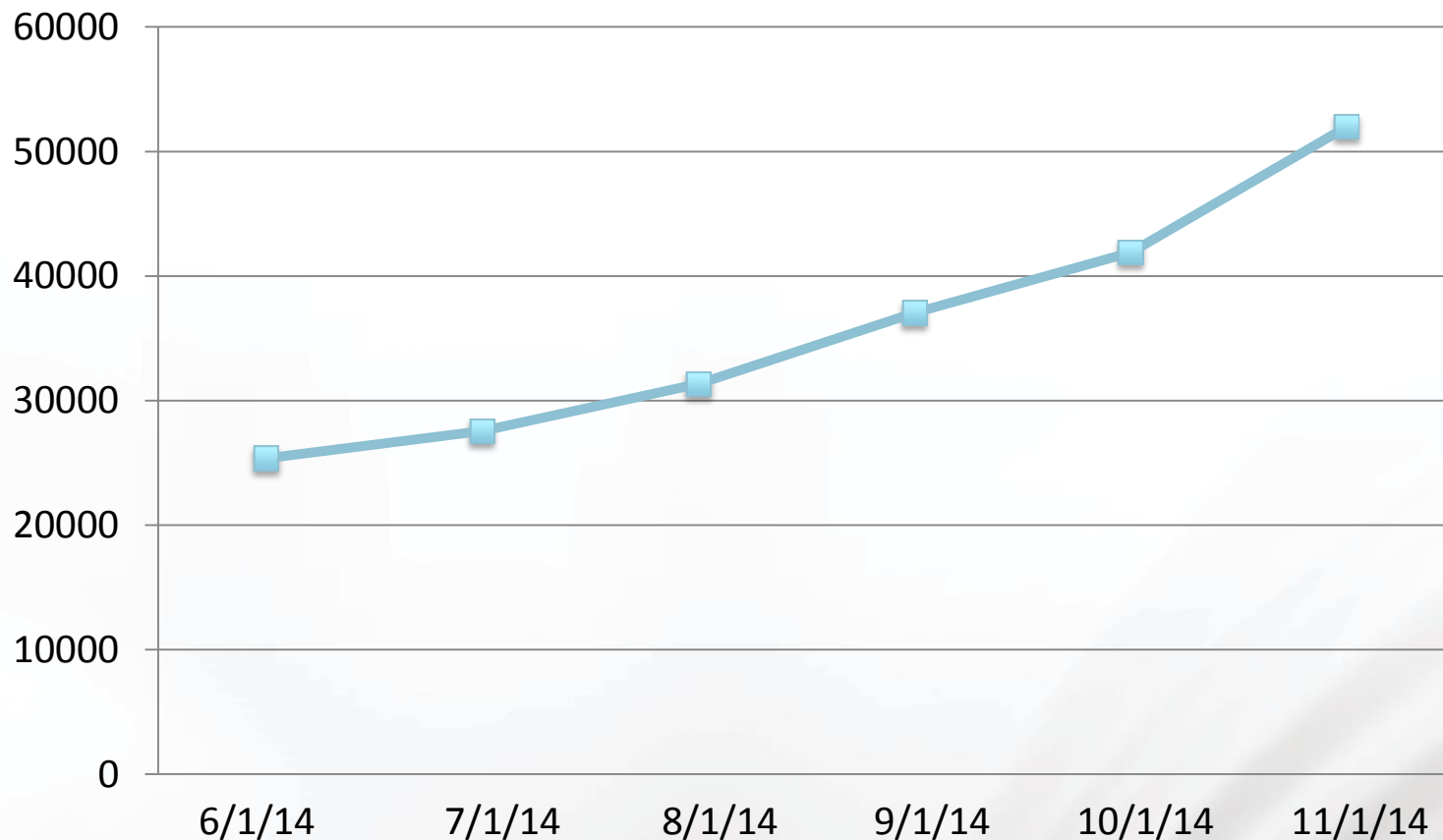
PRESERVED IN

CLOCKSS

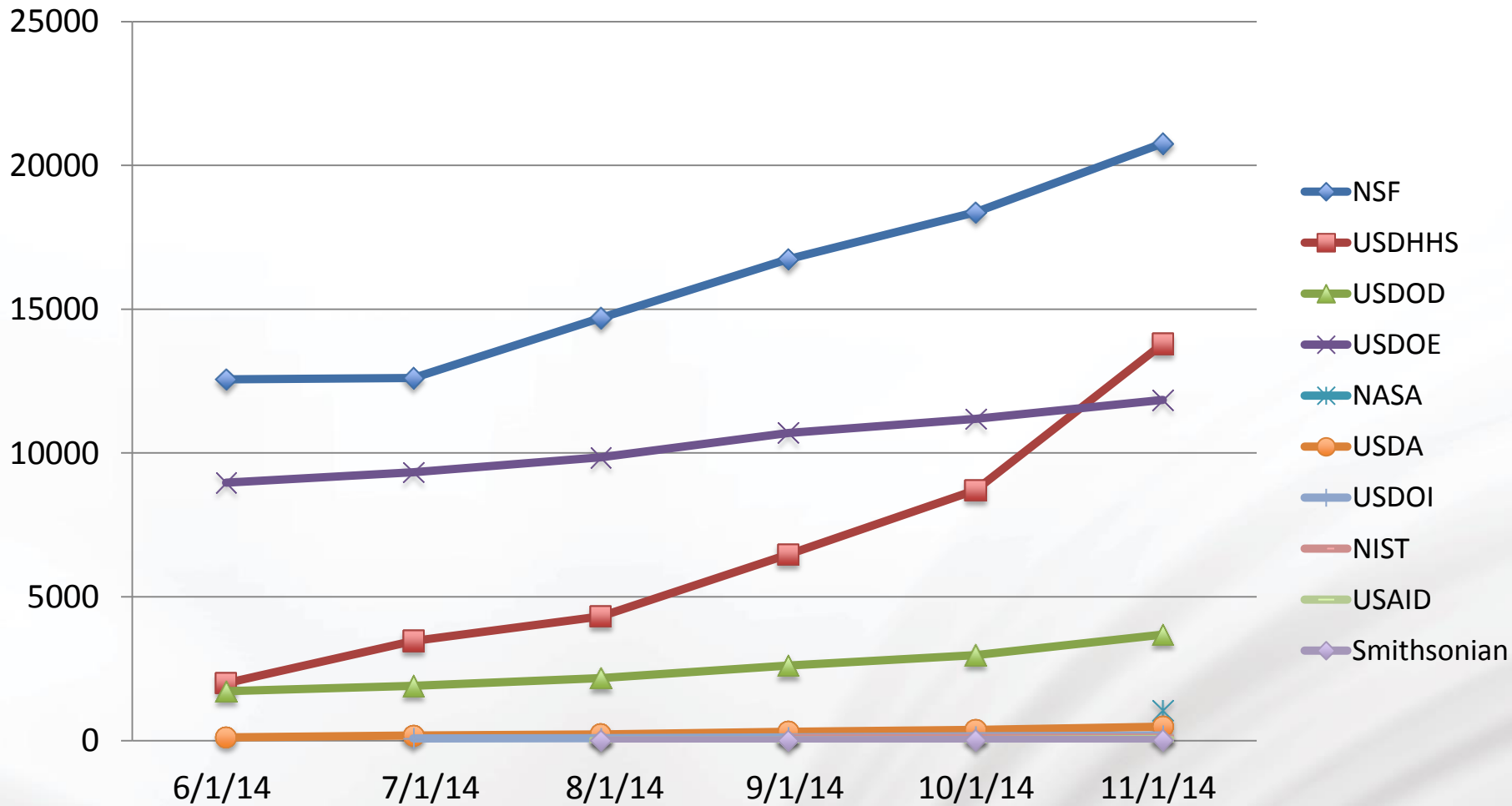
PORTICO

Government maintained or other 3rd-party dark archive

# Total Articles Monitored



# Monitored Articles by US Agency



# CHORUS + SHARE

- CHORUS objective: interoperate with scholarly repositories and other systems providing access to scholarly articles
- Agreed to work jointly on persistent identifiers, metrics, and notification system
- Exploring more areas of collaboration
- Active member of SHARE workflow working group

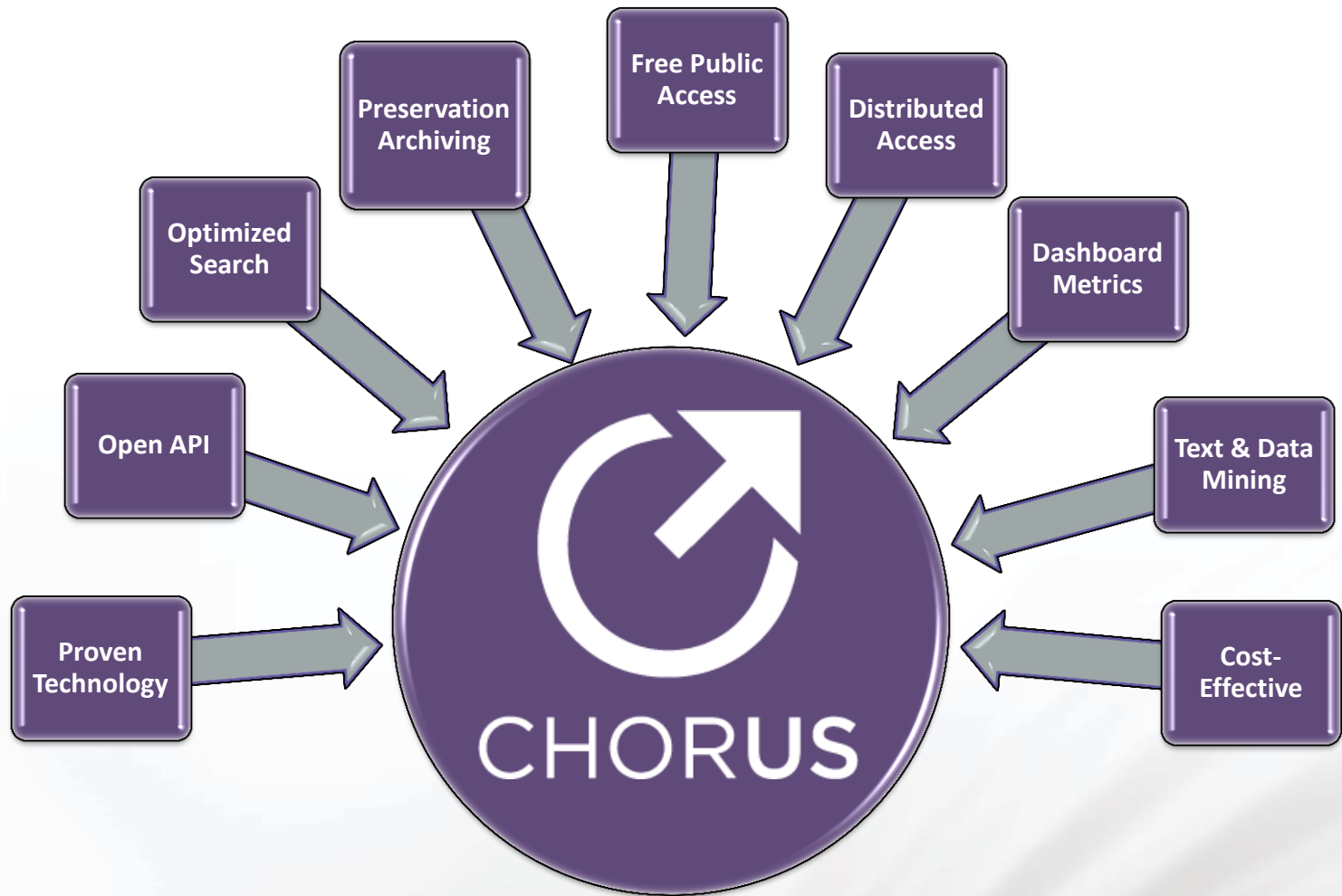


# CHORUS + Data

- 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







# What Do Publishers Need To Do?

**1 Identification**  
Tag content with CrossRef's FundRef Agency Identifiers 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

**JOIN  
CHORUS**

**Discovery**  
Researchers can search and find your content

**Compliance**  
Researchers can easily comply with their agencies



# CHORUS

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## Thank you!

Register for CHORUS NYC Implementation Workshop  
on 18 December 2014  
[www.chorusaccess.org](http://www.chorusaccess.org)

Howard Ratner | [hratner@chorusaccess.org](mailto:hratner@chorusaccess.org)  
Follow us on Twitter: [@chorusaccess](https://twitter.com/chorusaccess)

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