



Advancing Public Access to Research

Complementing Public Access

Wiley Executive Seminar
July 2017

Howard Ratner, Executive Director, CHORUS

Mark Robertson, President Wiley Japan; Vice President and Publishing Director, Research;
Asia-Pacific Executive Director Wiley Australia

Conflict of Interest (COI) of the Presenters : No potential COI to disclose

Access • Discovery • Compliance • Identification • Preservation

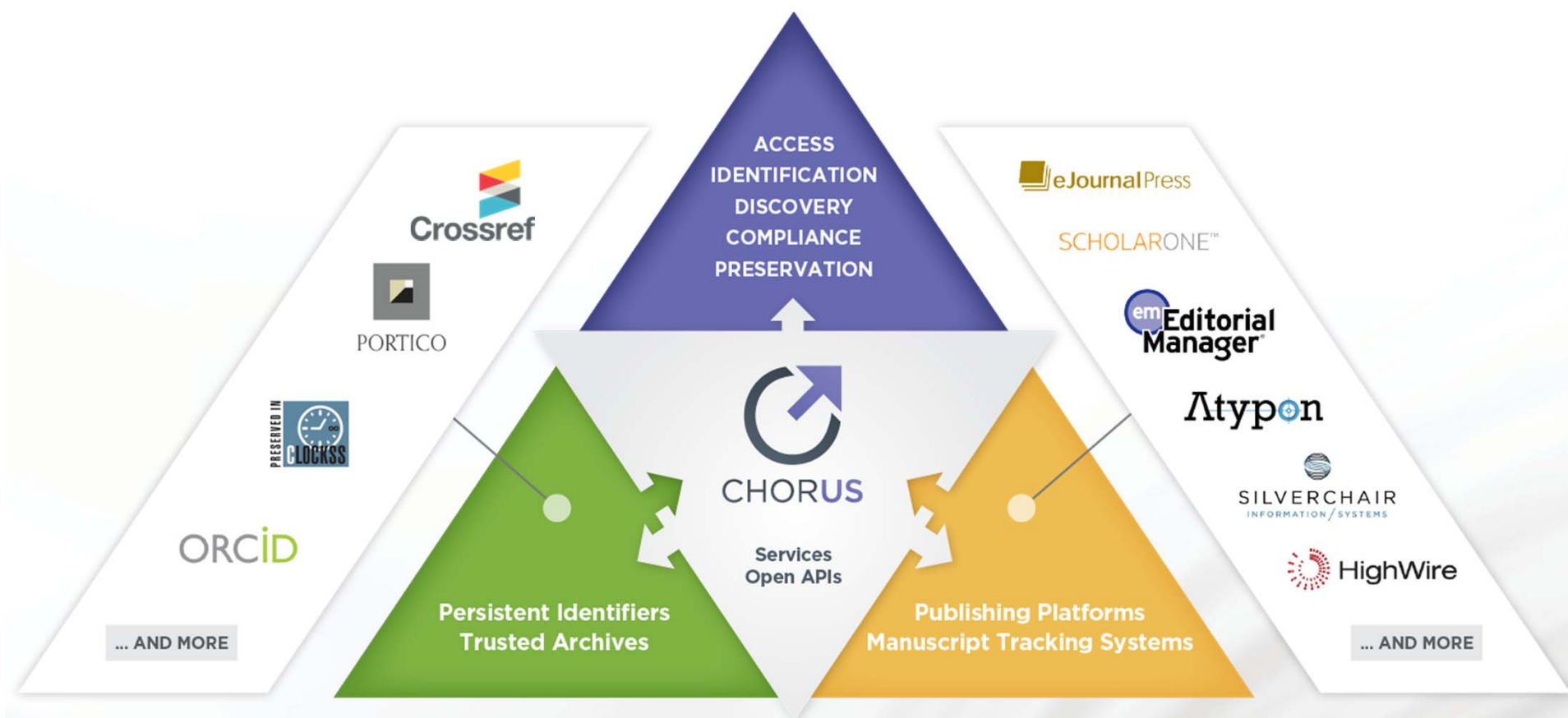
CHORUS

CHORUS is creating a future where the output of funded research is easily and permanently discoverable, accessible and verifiable by anyone in the world.

- 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



CHORUS

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US Agencies & CHORUS



US Department of Agriculture
Signed Letter of Agreement
on 27 October 2016



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
Institution**

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*

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



American Chemical Society



Association for Computing Machinery



Taylor & Francis Group
an informa business



SOCIETY OF EXPLORATION
— GEOPHYSICISTS —



Hindawi



IOP Publishing



THE
ROYAL SOCIETY
WILEY



CAMBRIDGE
UNIVERSITY PRESS



SPRINGER NATURE



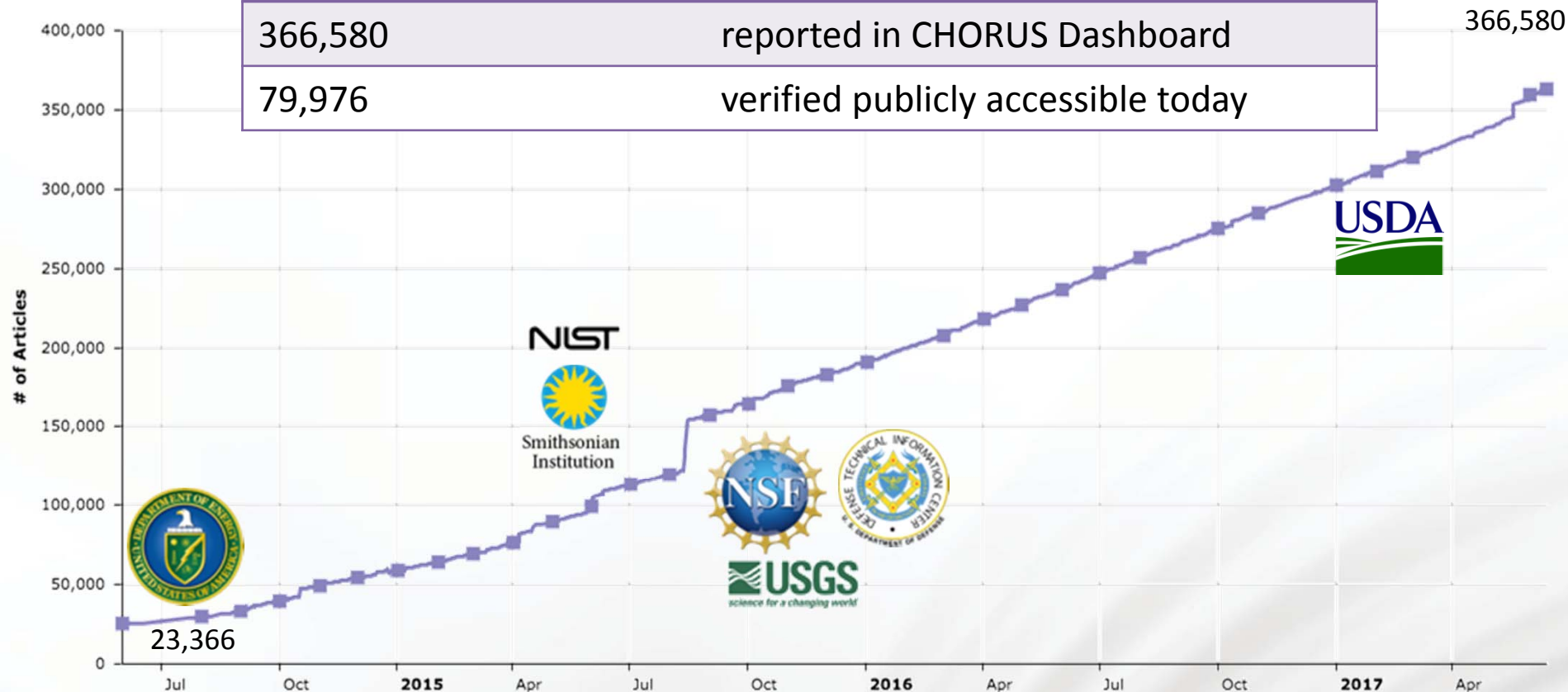
The Association of
Learned & Professional
Society Publishers



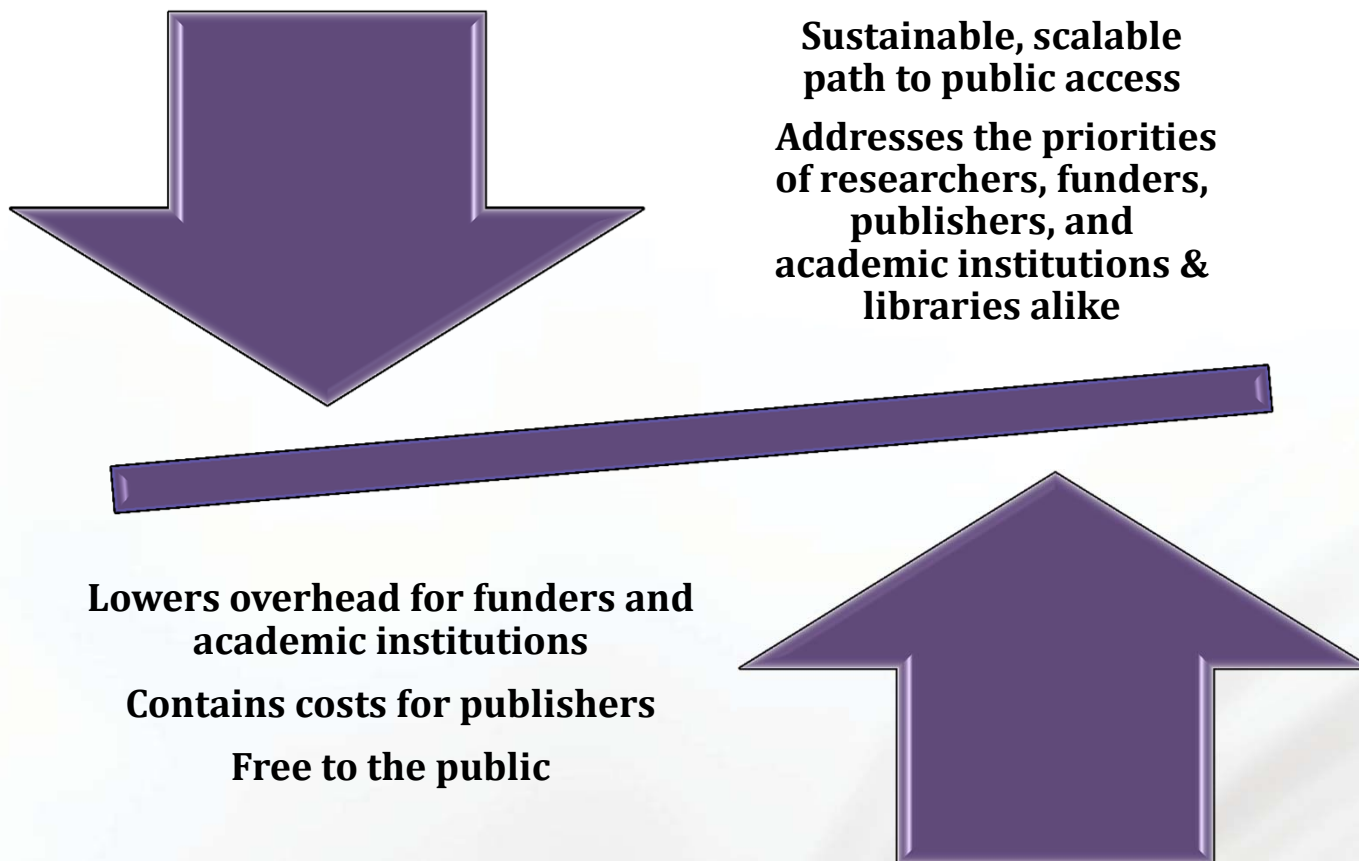
Cenveo
publisher services

Total CHORUS Articles Monitored

DOIs / Articles	Description
366,580	reported in CHORUS Dashboard
79,976	verified publicly accessible today



Why CHORUS?



How Does CHORUS Help?

Identification

Discovery

Compliance

Preservation

Access

Agency

Researcher

Librarian

Office of
Research

Publisher

Public

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How CHORUS Works





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



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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

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

NATIONAL SCIENCE FOUNDATION

ADVANCES IN THE CHEMISTRY OF OXADINONES

Journal article published 27 Aug 2014 in Chemical Reviews volume 94 issue 16 on page 8918 to 8928

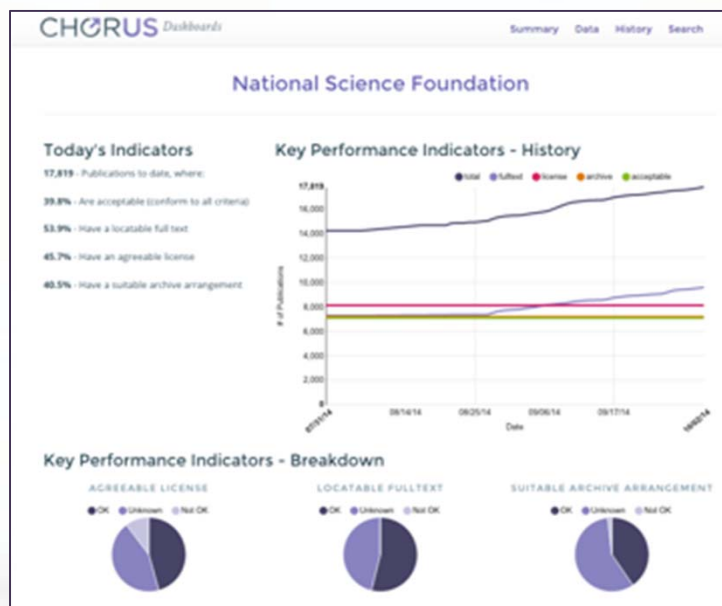
Research funded by National Institutes of Health, National Science Foundation

Authors: Williams, Ryan L, McQuinn, David, Yang, Yuhua R

DOI: 10.1021/cr400307a

Full Text Available

Compliance



Preservation



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National Science Foundation

Click on Data link above to view underlying data and to click through to DOI links to journal articles on publishers' sites.

deposits
identifying
funding



Today's Indicators

98,551 - Publications to date, where: ?

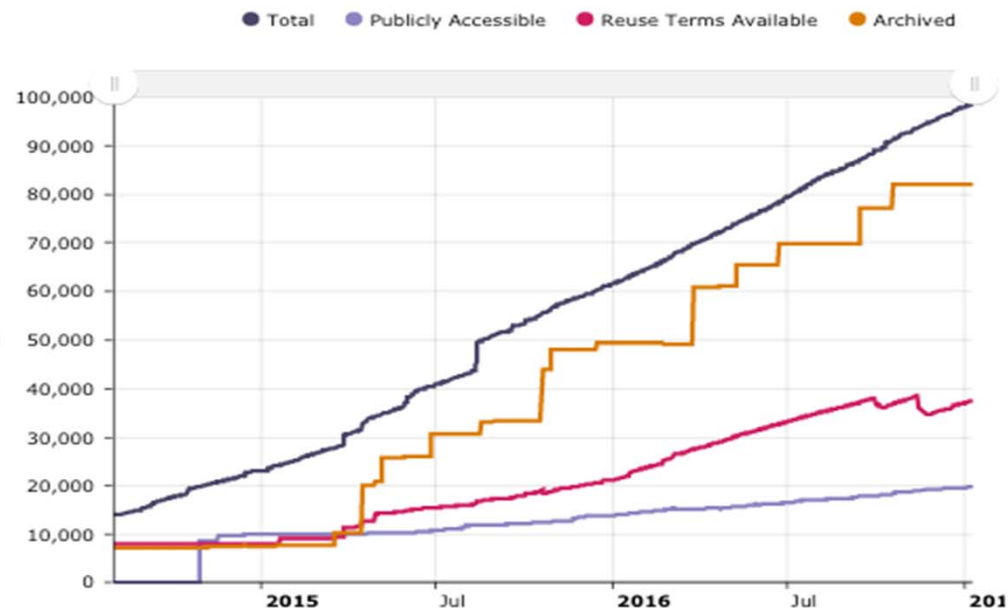
20.0% - Verified publicly accessible ?

38.1% - Reuse terms available ?

83.4% - Archived ?

Key Performance Indicators - History

Click on colored dots in legend to show or hide key indicator lines



Key Performance Indicators - Breakdown

VERIFIED PUBLICLY ACCESSIBLE ?

● Yes 19,748 ● Unknown 78,803

Content tested
for public
accessibility



records
having
reuse terms
posted

ARE REUSE TERMS AVAILABLE? ?

● Yes 37,526 ● Unknown 61,025



ARCHIVED ?

● Yes 82,196 ● Unknown 16,355

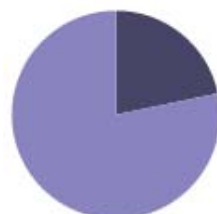


deposits
made
to dark
archives

Key Performance Indicators - Breakdown

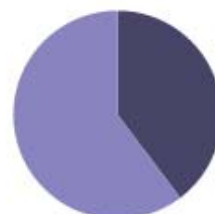
VERIFIED PUBLICLY ACCESSIBLE ?

● Yes 15,307 ● Unknown 55,145



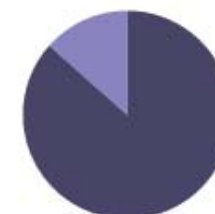
ARE REUSE TERMS AVAILABLE? ?

● Yes 27,987 ● Unknown 42,465



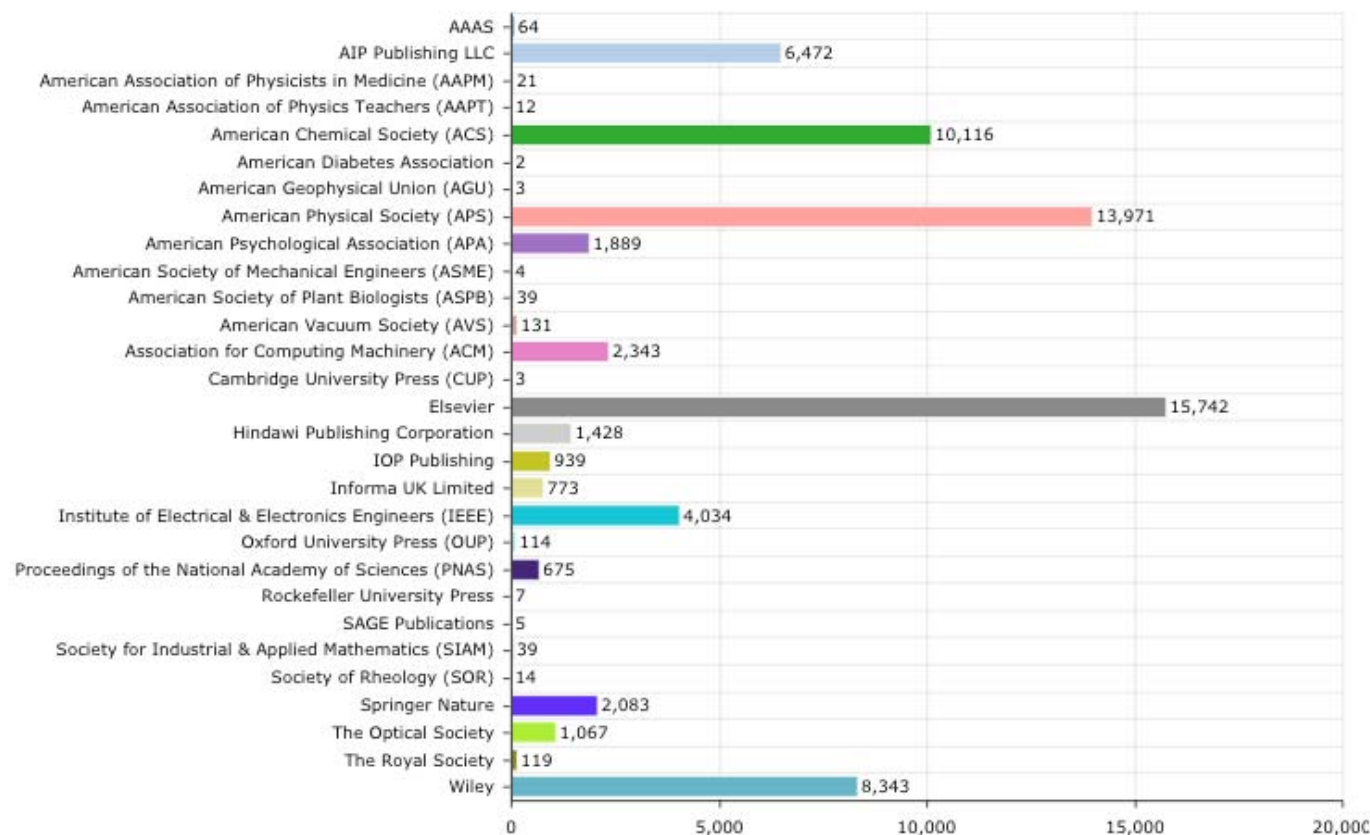
ARCHIVED ?

● Yes 60,992 ● Unknown 9,460



Publishers

Data below represents articles from Publisher Members reporting on research funded by the agency



National Science Foundation

Data represents number of articles that meet specific criteria audited on the specified date.
Click on any number below to view underlying data and access DOI links that click through to articles on publishers sites.

Indicator History



Show 25 entries

Search:

Date	#	Verified Publicly Accessible		Reuse Terms Available		Archived		Passed Overall Audit
		Yes	Unknown	Yes	Unknown	Yes	Unknown	
4/4/2016	70452	15307	55145	27987	42465	60992	9460	13292
4/3/2016	70409	15301	55108	27966	42443	60992	9417	13288
4/2/2016	70364	15274	55090	27933	42431	60992	9372	13278
4/1/2016	70290	15274	55016	27898	42392	60992	9298	13278
3/31/2016	70147	15274	54873	27821	42326	60948	9199	13138
3/30/2016	70067	15274	54793	27769	42298	60948	9119	13138
3/29/2016	69990	15274	54716	27716	42274	60948	9042	13138
3/28/2016	69860	15274	54586	27622	42238	60948	8912	13117
3/27/2016	69830	15274	54556	27595	42235	60947	8883	13117
3/26/2016	69773	15274	54499	27553	42220	60947	8826	13091

Showing 1 to 25 of 818 entries

Previous 1 2 3 4 5 ... 33 Next

National Science Foundation

Record level information about Publisher Member content.
Click on DOIs to be taken to articles on publisher site.

Indicator History Details

4/4/2016

PUBLICLY ACCESSIBLE - YES



Show 25 entries

Search:

DOI	Publication Date	Publisher	Funders	Author(s)	Article Title	Journal Name
10.1002/2013gb004599	12/2013	Wiley	1. National Aeronautics and Space Administration 2. National Science Foundation	Doney Scott C.,Lima Ivan D.,Lindsay K.,Mahowald N.,Marinov Irina,Moore J. K.	North-South asymmetry in the modeled phytoplankton community response to climate change over the 21st century	Global Biogeochemical Cycles
10.1002/2013gb004641	10/31/2013	Wiley	1. National Aeronautics and Space Administration 2. National Science Foundation 3. Natural Environment Research Council	Balch William M.,Bates Nicholas R.,Bowler Bruce,Drapeau Dave,Lyczsckowski Emily,Painter Stuart C.,Poulton Alex J.,Young Jeremy R.	The 2008 Emiliana huxleyi bloom along the Patagonian Shelf: Ecology, biogeochemistry, and cellular calcification	Global Biogeochemical Cycles
10.1002/2013gl057311	11/19/2013	Wiley	1. National Science	Brenner Owen,McNamara	Observed changes in hurricane-driven	Geophysical Research

Showing 1 to 25 of 15,267 entries

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CHORUS Pilots



University of
Denver

Launched Sept 2016



Launched July 2016



Australian Government

Australian Research Council



LA TROBE
UNIVERSITY

Launching March 2017

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Institution Pilot Aims

September 2016 – April 2017



Identification

- Identify and collect metadata for articles written by institution staff, faculty and students and published by CHORUS pilot member publishers in October 2015 - January 2017
Filter and sort by US agency funding

Compliance

- Develop institutional dashboards, alerting and reporting
- Collaborate to create mechanisms to track and report on compliance

Engagement

- Generate interest and involvement of other stakeholders in the project
Recommend ways to minimize duplication of effort and burdens on researchers
- Explore related metadata, identifier and compliance initiatives and map future interactions

Discovery (*Optional Extensions*)

- **Indexing:** Harvest metadata and full text from publishers for delivery to participating institutions
- **Linking:** Link from portal search results via Crossref DOIs to relevant content on publisher platforms
- **Display:** Consider use of an API to allow display of full text within the local search results using content streamed from publisher platforms



JST Pilot Aims

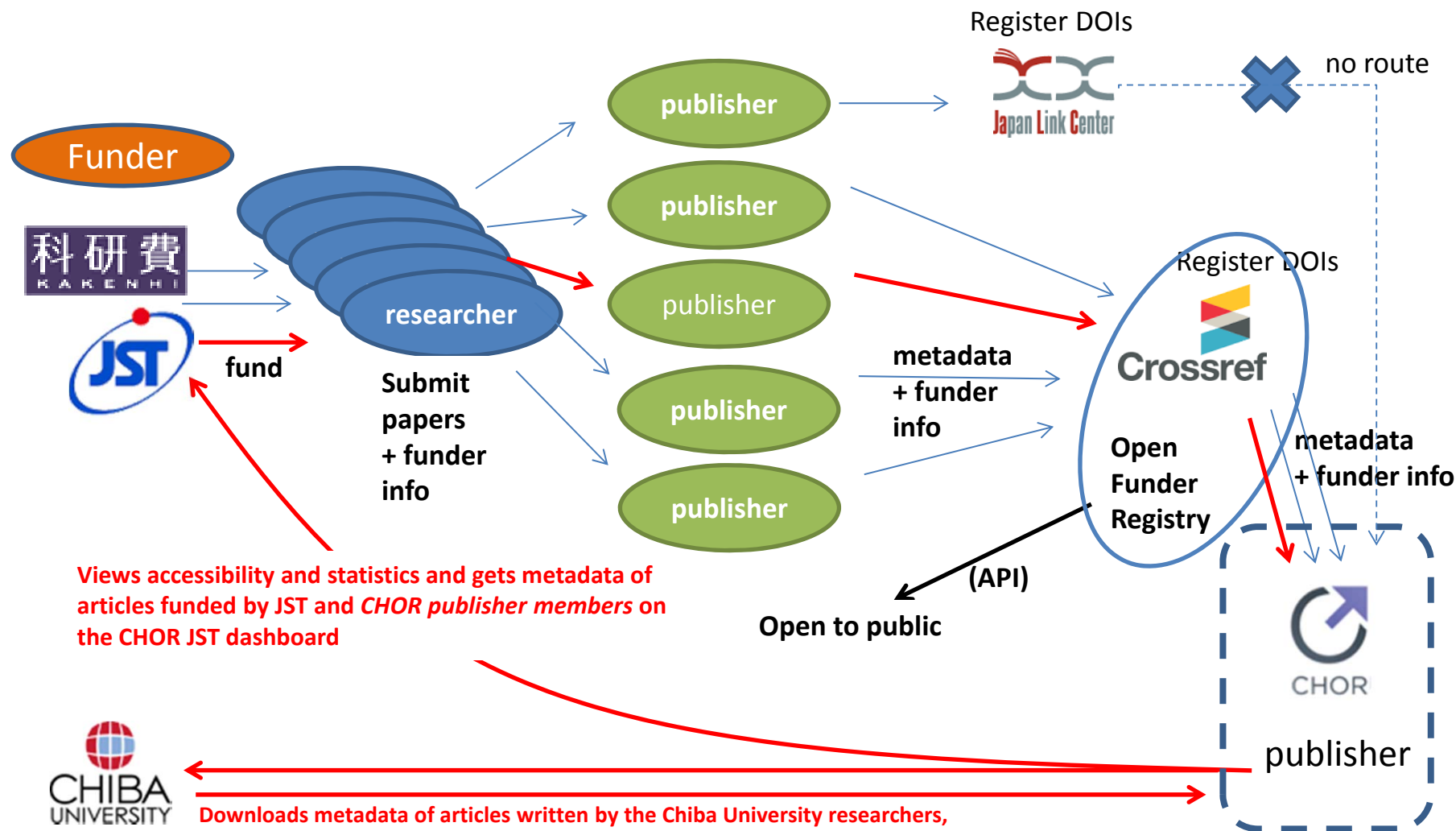


July 2016 – May 2017

- Discuss public access compliance needs of JST
- Improve JST funder agency information and may improve other Japanese funder agency information in Crossref Open Funder Registry
- Improve metadata at Japan institutional repositories (e.g., Chiba University) for articles tagged as reporting on JST-funded research and authored by university and research institute staff, faculty and students
- Institutional repository linking to articles on publishers sites via DOI
- Creating and improving value of pilot JST Dashboard
- Creating and improving pilot JST search portal (e.g., ORCID IDs, linking to datasets, grant information, etc.) and sharing with public when ready

Workflow

June 1, 2016 JST / updated September 7, 2016 CHOR



Views accessibility and statistics and gets metadata of articles funded by JST and CHOR publisher members on the CHOR JST dashboard



Downloads metadata of articles written by the Chiba University researchers, funded by JST and published by participating CHOR pilot publishers. CHIBA links to identified articles on publisher site via DOI. Under separate agreement (outside of pilot), Wiley will and other CHOR Pilot publishers may give public access to the identified articles on their sites.

Participating CHOR pilot publisher members may make articles reporting on JST funded research publicly accessible on publisher site after embargo

Japan Science and Technology Agency

Click on Data link above to view underlying data and to click through to DOI links to journal articles on publishers' sites.

PILOT PROTOTYPE

deposits
identifying
funding



Today's Indicators

7,186 - Publications to date, where: ⓘ

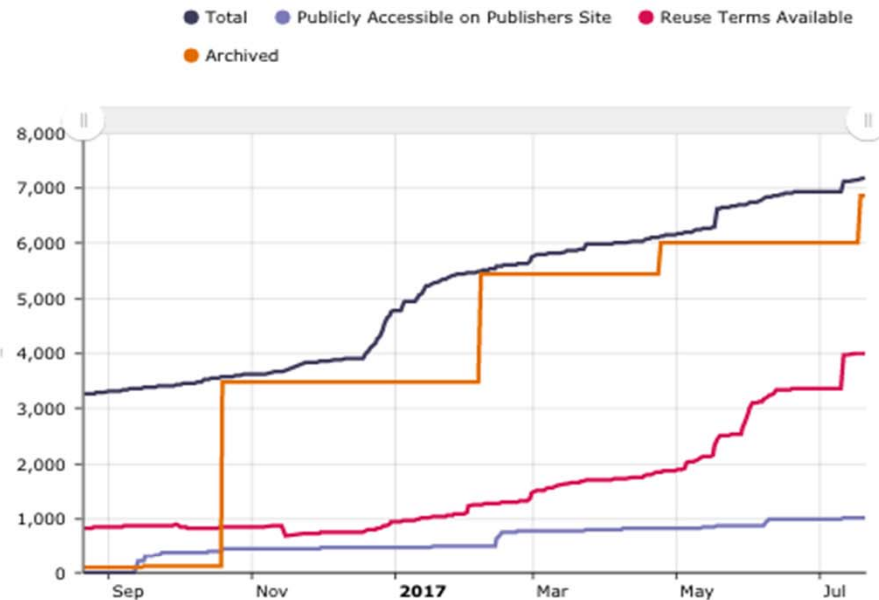
14.0% - Verified Publicly Accessible on Publishers Site ⓘ

55.8% - Reuse terms available ⓘ

95.4% - Archived ⓘ

Key Performance Indicators - History

Click on colored dots in legend to show or hide key indicator lines



Key Performance Indicators - Breakdown

VERIFIED PUBLICLY ACCESSIBLE ON PUBLISHERS SITE ⓘ

● Yes 1,007 ● Unknown 6,179



ARE REUSE TERMS AVAILABLE? ⓘ

● Yes 4,009 ● Unknown 3,177



ARCHIVED ⓘ

● Yes 6,856 ● Unknown 330



Content tested
for public
accessibility



records
having
reuse terms
posted



deposits
made
to dark
archives



Key Performance Indicators - Breakdown

VERIFIED PUBLICLY ACCESSIBLE ON PUBLISHERS SITE ?

● Yes 1,007 ● Unknown 6,179



ARE REUSE TERMS AVAILABLE? ?

● Yes 4,009 ● Unknown 3,177



ARCHIVED ?

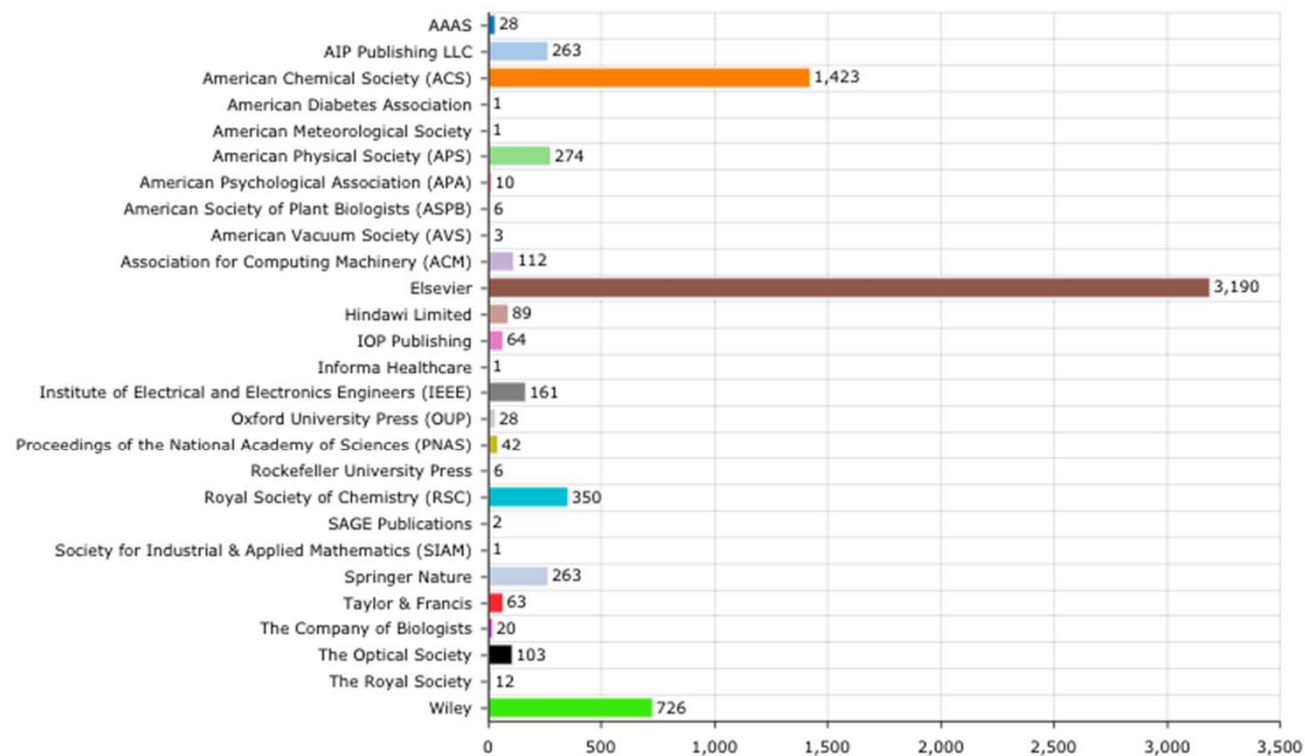
● Yes 6,856 ● Unknown 330



PILOT PROTOTYPE

Publishers

Data below represents articles from Publisher Members reporting on research funded by the agency



[Leave feedback](#)



Japan Science and Technology Agency

PILOT PROTOTYPE

Data represents number of articles that meet specific criteria audited on the specified date.
Click on any number below to view underlying data and access DOI links that click through to articles on publishers sites.

Indicator History



Show 25 entries

Search:

Date	#	Verified Publicly Accessible on Publishers Site		Reuse Terms Available		Archived	
		Yes	Unknown	Yes	Unknown	Yes	Unknown
7/21/2017	7186	1007	6179	4009	3177	6856	330
7/20/2017	7178	1006	6172	4005	3173	6856	322
7/19/2017	7168	1006	6162	4002	3166	6856	312
7/18/2017	7156	1006	6150	3995	3161	6020	1136
7/17/2017	7147	1006	6141	3992	3155	6020	1127
7/14/2017	7136	1006	6130	3985	3151	6020	1116
7/13/2017	7125	1006	6119	3980	3145	6020	1105
7/12/2017	7113	1006	6107	3976	3137	6020	1093
7/11/2017	6925	990	5935	3354	3571	6020	905
7/10/2017	6925	990	5935	3354	3571	6020	905

Showing 1 to 25 of 300 entries

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...

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Next

Japan Science and Technology Agency

Record level information about Publisher Member content.
Click on DOIs to be taken to articles on publisher site.

PILOT PROTOTYPE

Indicator History Details

7/21/2017

VERIFIED PUBLICLY ACCESSIBLE ON PUBLISHERS SITE - YES



Show 25 entries

Search:

DOI	Publisher	Funders	Author(s)	Article Title	Journal Name	Online Publication Date
10.1002/1873-3468.12045	Wiley	1. Japan Science and Technology Agency	Kinashi Tatsuo, Matsuda Tadashi, Ozawa Madoka, Ueda Yoshihiro, Yasuda Kaneki	Enhanced cytotoxic T-cell function and inhibition of tumor progression by Mst1 deficiency	FEBS Letters	1/4/2016
10.1002/2016gl069298	Wiley	1. Japan Aerospace Exploration Agency 2. Japan Science and Technology Agency 3. Japan Society for the Promotion of Science	Arai K., Irie H., Khatri P., Kikuchi M., Maki T., Morino I., Murakami H., Nagao T.M., Ogi A., Okumura H., Sekiyama T.T., Tanaka T.Y., Uchino O., Yumimoto K.	Aerosol data assimilation using data from Himawari-8, a next-generation geostationary meteorological satellite	Geophysical Research Letters	6/11/2016
10.1002/2016jd025834	Wiley	1. Core	Kohma Masashi, Sato	Frequency spectra	Journal of	1/3/2017

Showing 1 to 25 of 1,006 entries

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What Do Publishers Need To Do?

1

Identification

Tag content with Crosref's open funder 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

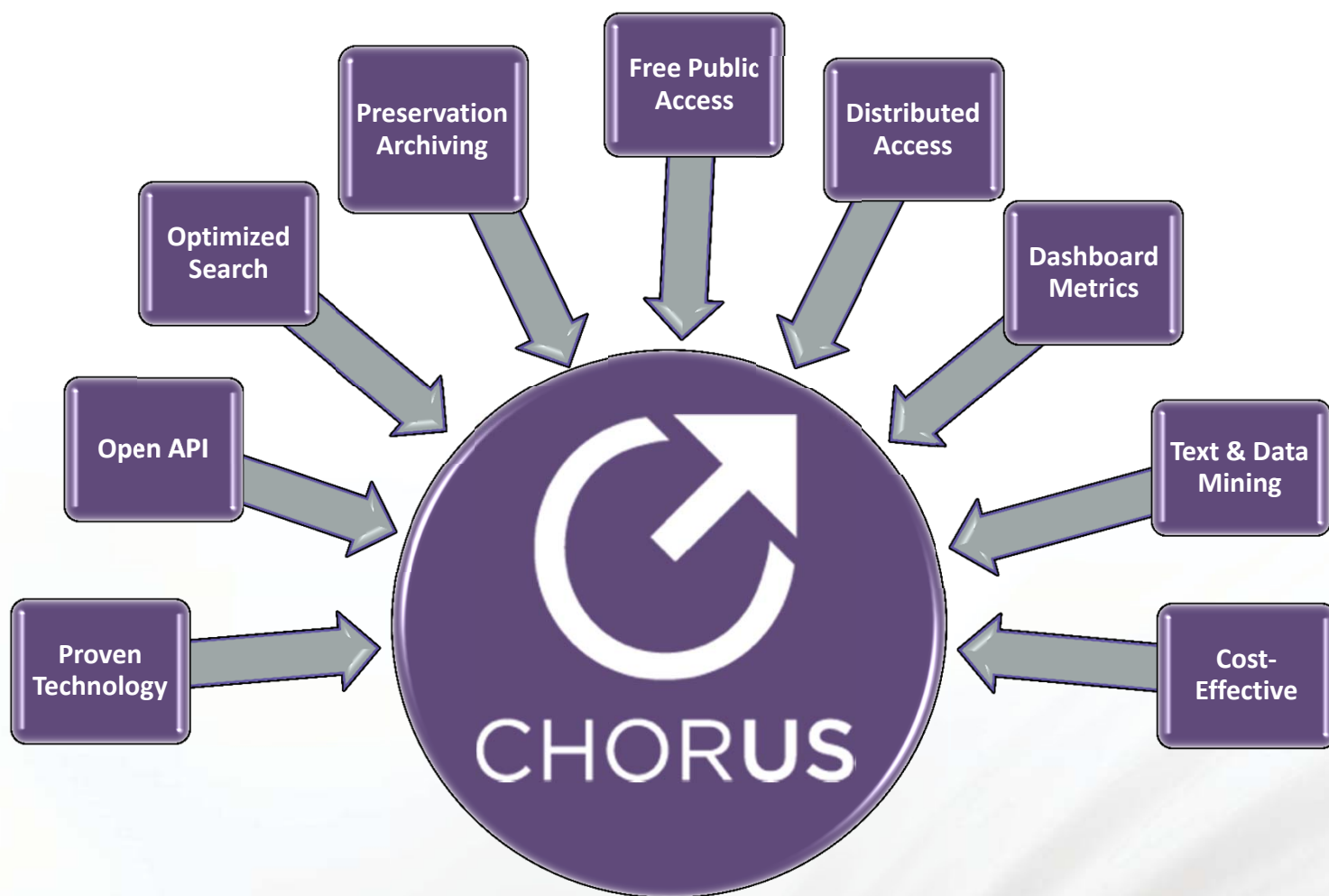
Compliance

Researchers can easily comply with their agencies



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Discover more information

www.chorusaccess.org

Contact: Howard Ratner

hratner@chorusaccess.org

Follow us on Twitter: [@chorusaccess](https://twitter.com/chorusaccess)

Access • Discovery • Compliance • Identification • Preservation



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お問い合わせ先：ワイリー・パブリッシング・ジャパン株式会社
学会英文誌出版部

Tel 03-3830-1233

Email jtominaga@wiley.com