

Advancing Public Access to Research

# **STM Frankfurt Conference**

7 October 2014
Howard Ratner, Executive Director
CHOR Inc.
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** 

an appropriate

within 6 months

Deposit of articles in

research repository

Council

#### 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

## Australian Research Council (ARC)

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

#### **Telethon Italy**

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



## 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 peerreviewed 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



# CHGRUS

A broad coalition of scholarly publishers formed to develop, implement and steward a partnership with the federal research funders for providing public access to the peer-reviewed publications that report on funded research.

- Evolved from an ad-hoc group of publishers who initiated partnership discussions with several agencies in Spring 2011
- Incorporated as a not-for-profit entity CHOR Inc. on October 1, 2013
- US IRS 501(c)(3) tax-exempt status pending
- 100+ signatories and growing
- Exploring international partnerships
- Pilot launched October 2013
- Went into Production July 2014
- US Department of Energy announces partnership August 2014







# **American Chemical Society**





Association for Computing Machinery













WILEY

**PLUS OVER 100 SIGNATORIES** 



# Supporting Organizations (September 2014)

AAAS

**Acoustical Society of America** 

**ACSESS** 

American Association of Anatomists

American Association for Cancer Research

American Association of Physicists in Medicine

American Association of Physics Teachers

American Astronomical Society **American Chemical Society** 

American Crystallographic Association, Inc.

American College of Chest Physicians

American College of Physicians

American Dental Association

American Diabetes Association

American Geophysical Union

American Inst of Aeronautics and Astronautics

American Institute of Biological Sciences

American Institute of Chemical Engineers

American Institute of Physics American Mathematical Society

American Meteorological Society

American Medical Association

**American Nuclear Society** 

American Physical Society

American Physiological Society

American Psychiatric Publishing

American Psychological Association

American Society for Biochemistry and Molecular Fabricators and Manufacturers Association,

Biology

American Soc of Agricultural & Biological

Engineers

American Society of Agronomy

American Society of Civil Engineers

American Society of Mechanical Engineers

American Society for Microbiology

American Society of Neuroradiology

American Society of Plant Biologists

American Speech-Language-Hearing Association

Asociacon Columbiana de Infectologia Assoc for Computing Machinery (ACM)

Assoc for Research in Vision and Ophthalmology

AVS: Science & Technology of Materials,

**Interfaces and Processing** 

**Biophysical Society** 

Bioscientifica

**Botanical Society of America** 

British Editorial Society of Bone & Joint Surgery

BMJ

**Cambridge University Press** 

**Columbia University Press** 

The Company of Biologists

Crop Science Society of America

Dove Press

**Duke University Press** 

**Ecological Society of America** ECS - The Electrochemical Society

**EDP Sciences** 

Elsevier

**Emerald Group Publishing Limited** 

The Endocrine Society

**Entomological Society of America European Respiratory Society** 

International

**Genetics Society of America** 

GeoScienceWorld

Hindawi

**Human Factors and Ergonomics Society** 

IFFF

iMedPub. Internet Medical Publishing

**INFORMS** 

Institute of Physics Publishing

Institution of Engineering and Technology (IET)

Journal of Bone and Joint Surgery

Journal of Infection in Developing Countries

Journal of Rehabilitation Research and Dev

Lynne Rienner Publishers, Inc.

Materials Research Society

McGraw-Hill

Mycological Society of America

**Nature Publishing Group** 

New England Journal of Medicine

Now Publishers

The Optical Society

Oxford University Press The Physiological Society

Revista Medica de Risarlda

The Rockefeller University Press

The Royal College of Psychiatrists

The Royal Society

**Royal Society of Chemistry** 

Sage Publications

Society for the Advancement of Materials on

**Process Engineering** 

Society for the Study of Reproduction

Soil Science

Society of America

Springer Science+Business Media LLC

**Taylor & Francis** 

Thieme Publishers

University of Chicago Press

John Wiley & Sons

Wolters Kluwer Medical Research

Plus 10 more service providers & organizations



# CHCRUS

Pilot Proof of Membership Ramp up In Drive Concept Phase Production February Sept 2013 -Delivered 31 July June July 2014 Publisher 30 August 2014 2013 Onboarding 2013 **US Dept of Energy** 2014 Incorporation **AAP Startup Fundraising** Funding of CHOR, Inc. **Announces** (1 October 2013) Partnership (4 August 2014) 2013 Fundraising



# **US Agencies & CHORUS**



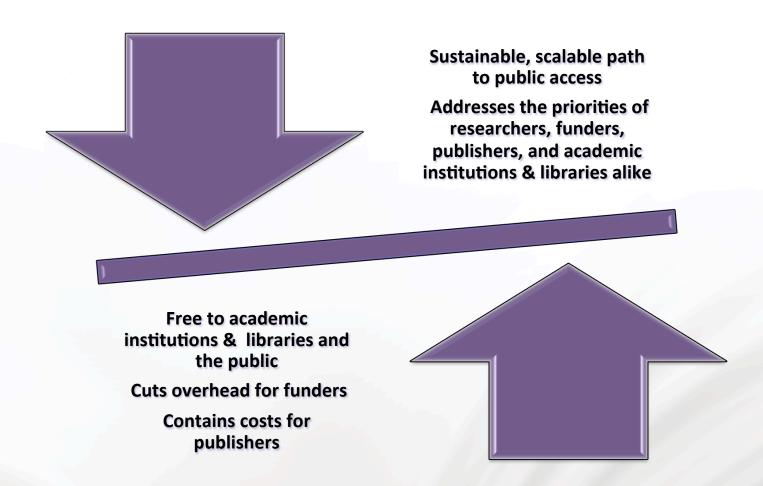
US Department of Energy
Announced Partnership
with CHORUS on 4 August 2014



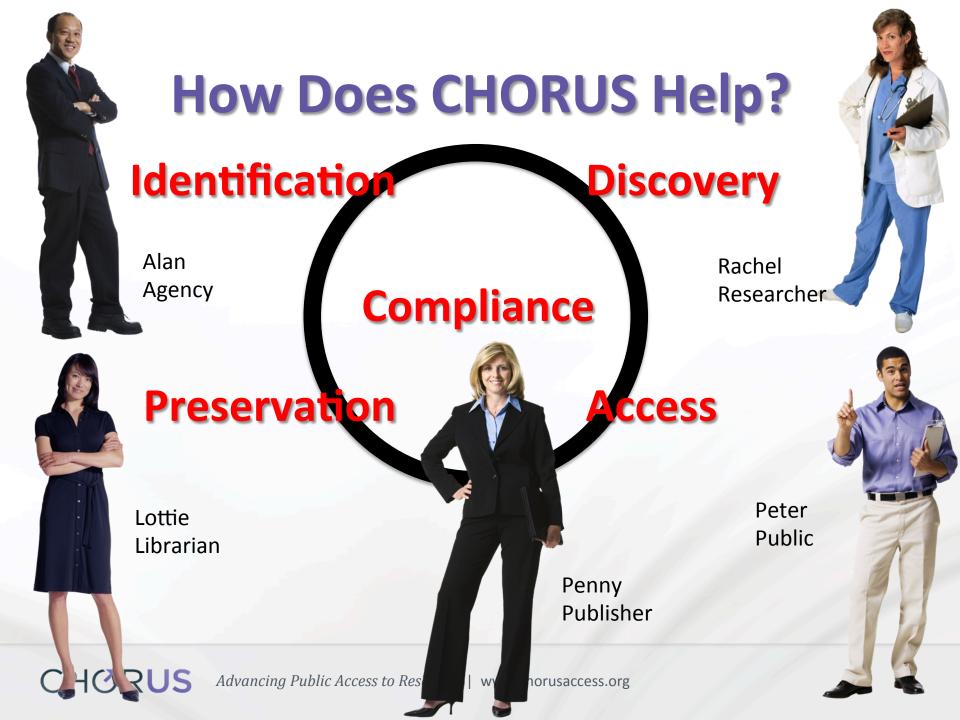
Active discussions with 5-10 federal agencies



# Why CHORUS?







# Preserve Agency Funds for Research!

Builds on existing infrastructure of the scholarly community













# 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

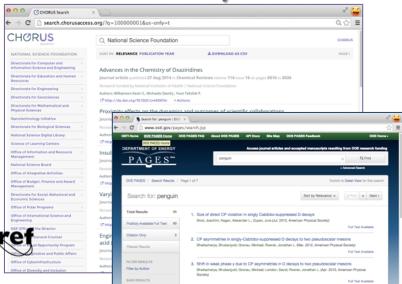




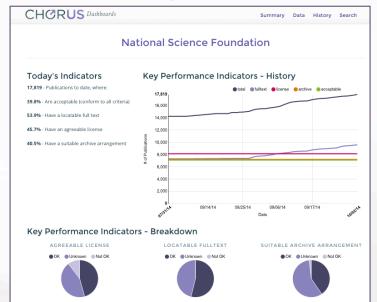
### Identification



## **Discovery**



## **Compliance**



## **Preservation**

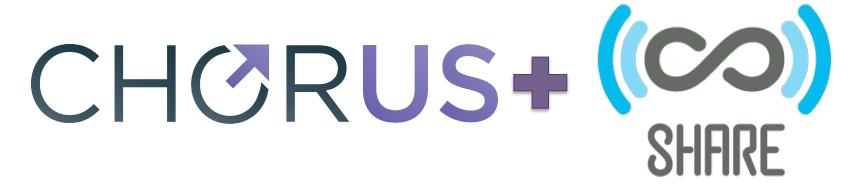






Government maintained or other 3rd-party dark archive





- CHORUS aspires to be inclusive and interoperate with scholarly repositories and other systems providing access to scholarly articles
- Agreed to work jointly on persistent identifiers, metrics, and notification system
- Continuing to explore more areas of collaboration
- Member of SHARE workflow working group



# CHCRUS + Data

- Unclear whether there is one unified mechanism for data and publications
- Value in linking data to the papers it supports
- Simplify procedures for researcher compliance and funding agency monitoring
- CHORUS infrastructure can link to data repositories when available
- CHORUS will use standard identifier schemes





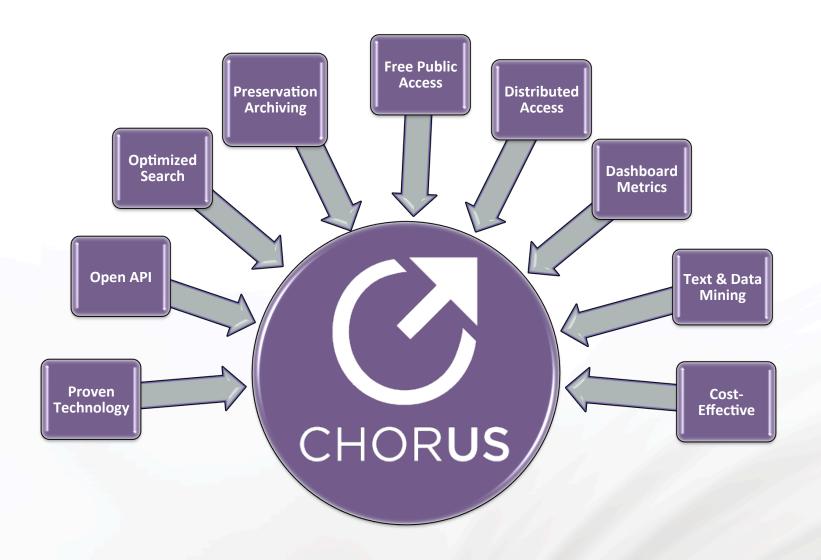




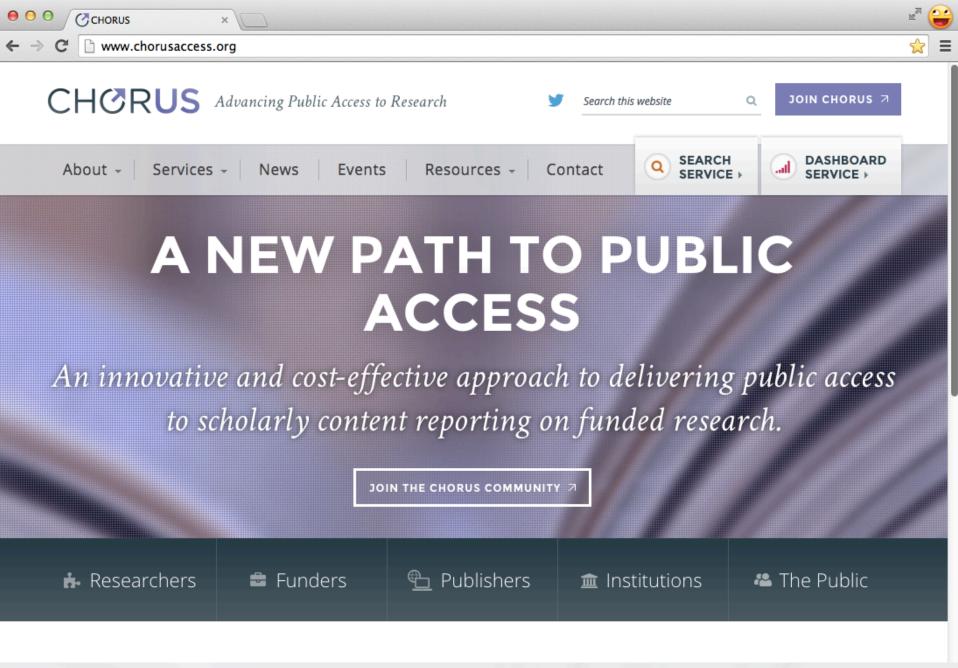
# What Do Publishers Need To Do?

- Become a member of CHORUS
- Become a member of CrossRef
- Sign up for FundRef as part of CrossRef membership
- Submit agency-related data to CrossRef's FundRef for all new content
- Send public access content reuse license and embargo metadata to CrossRef
- Deposit full text URIs with CrossRef Text and Data Mining Services
- Send relevant content to archiving service











Advancing Public Access to Research

# Discover more information www.chorusaccess.org

Contact: Howard Ratner
hratner@chorusaccess.org
Follow us on Twitter: @chorusaccess

# **EXTRAS**



# How CHORUS Works: Identification

...built into the author's submission process













Bench Press
HighWire





# How CHORUS Works: Identification

...built into the author's submission process

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



# How CHORUS Works: Identification

...built into the author's submission process















# How CHORUS Works: Preservation

...use of existing, multiparty preservation strategy











Government maintained or other 3rd-party dark archive



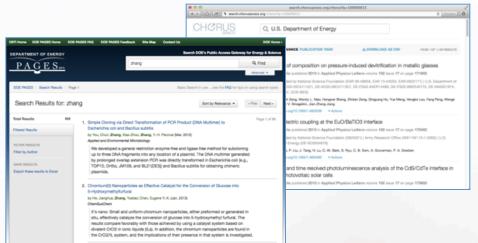
# How CHORUS Works: Discovery

...by any existing search engine







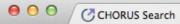




Text and Data-Mining Services















search.chorusaccess.org







✓ US Federal only

# Q national science

#### National Science Foundation United States

National Science Board United States

Lawrence Livermore National Laboratory, Office of Science United States

Argonne National Laboratory, Office of Science United States

National Science Digital Library United States

Brookhaven National Laboratory, Office of Science United States

National Institute of General Medical Sciences United States

National Center for Advancing Translational Sciences United States

National Center for Science and Engineering Statistics United States

National Institute of Environmental Health Sciences United States

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CHORUS





#### NATIONAL SCIENCE FOUNDATION

Directorate for Computer and Information Science and Engineering (29)

Directorate for Education and Human Resources (48)

Directorate for Engineering (204)

Directorate for Geosciences (41)

Directorate for Mathematical and Physical Sciences (644)

Directorate for Biological Sciences (66)

Science of Learning Centers (0)

Office of Information and Resource Management (1)

National Science Board (2)

Office of Integrative Activities (1)

Office of Budget, Finance and Award Management (5)

Directorate for Social.

### National Science Foundation

SORT BY: RELEVANCE PUBLICATION YEAR

DOWNLOAD AS CSV

PAGE 1 OF 17,743 RESULTS

#### Proximity effects on the dynamics and outcomes of scientific collaborations

Journal article published Nov 2014 in Research Policy volume 43 issue 9 on pages 1469 to 1485

Research funded by National Science Foundation

Authors: Kabo Felichism W., Cotton-Nessler Natalie, Hwang Yongha, Levenstein Margaret C., Owen-Smith Jason

http://dx.doi.org/10.1016/j.respol.2014.04.007 

## Insular muscarinic signaling regulates anxiety-like behaviors in rats on the elevated plus-maze

Journal article published Aug 2014 in Behavioural Brain Research volume 270 on pages 256 to 260

Research funded by National Science Foundation | Beijing Municipal Natural Science Foundation

Authors: Li Hui, Chen Lei, Li Peng, Wang Xiaohong, Zhai Haifeng

☐ http://dx.doi.org/10.1016/j.bbr.2014.05.017 

#### Varying coefficient subdistribution regression for left-truncated semi-competing risks data

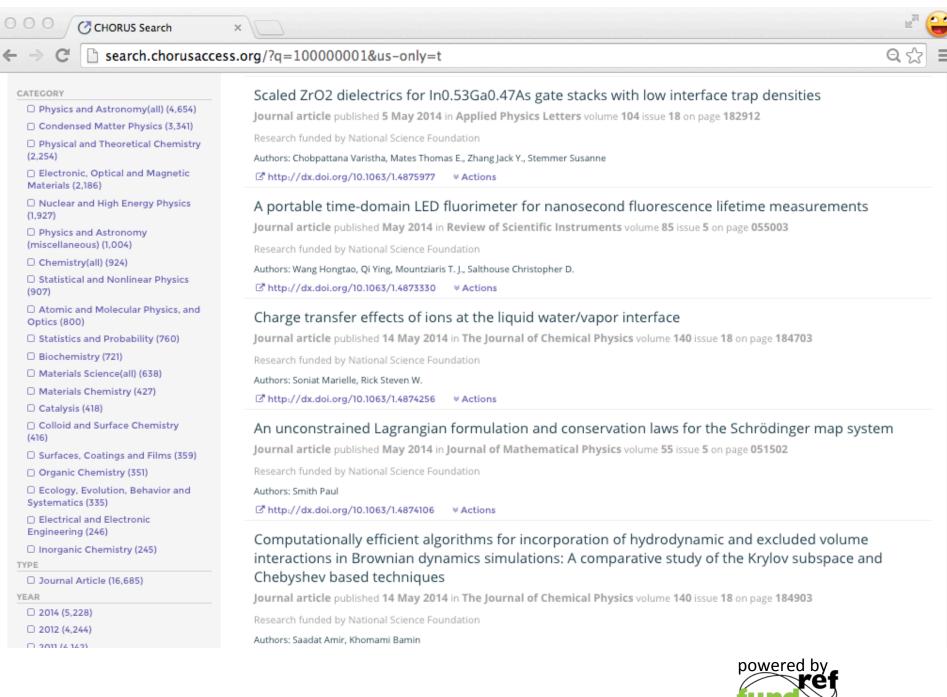
Journal article published Oct 2014 in Journal of Multivariate Analysis volume 131 on pages 65 to 78

Research funded by National Institutes of Health | National Science Foundation

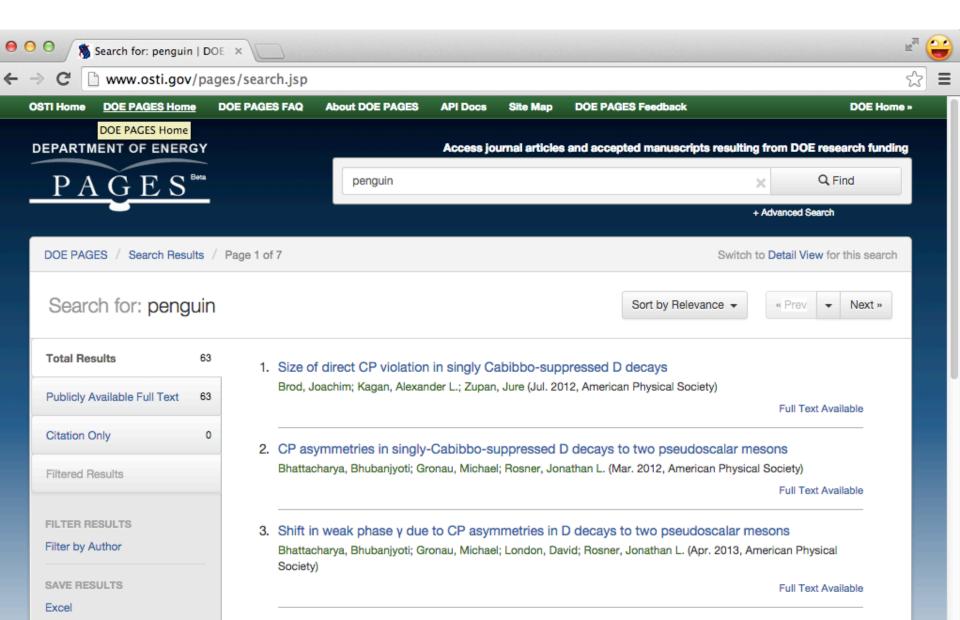
Authors: Li Ruosha, Peng Limin

☑ http://dx.doi.org/10.1016/j.jmva.2014.06.005 





# **API Integration with Agency Portals**

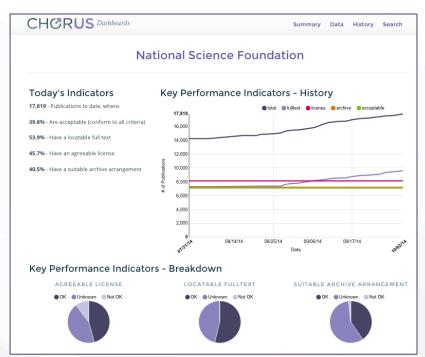


# How CHORUS Works: Compliance

API and dashboards for monitoring and tracking publisher contributions to CHORUS







Government
Agency Reports

**Institution Reports** 

**Publisher Reports** 

Live dashboard: dashboard.chorusaccess.org/nsf





## http://dashboard.chorusaccess.org/nsf

### **National Science Foundation**

# Deposits identifying

**NSF** 

#### funding Today's Indicators



17,819 - Publications to date, where:

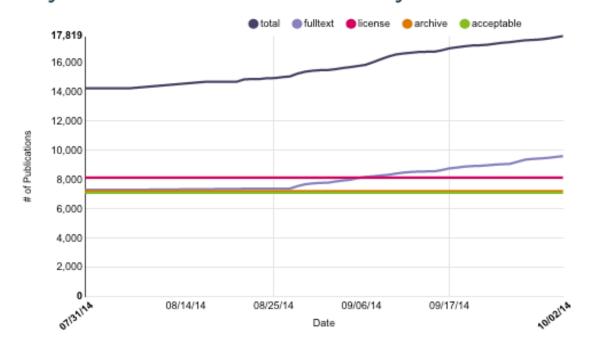
39.8% - Are acceptable (conform to all criteria)

53.9% - Have a locatable full text

45.7% - Have an agreeable license

40.5% - Have a suitable archive arrangement

## **Key Performance Indicators - History**



## Key Performance Indicators - Breakdown



# Membership Model

### **Publisher Members**

<\$5M Total Publishing Revenue:	\$1,000
≤\$20m Total Publishing Revenue:	\$3,000
≤\$50m Total Publishing Revenue:	\$5,000
≤\$100m Total Publishing Revenue:	\$15,000
≤\$200m Total Publishing Revenue:	\$25,000
≤\$500m Total Publishing Revenue:	\$35,000
>\$500m Total Publishing Revenue:	\$50,000

### **Affiliate Members**

<\$1m Gross Revenue:	\$5,000
≤\$10m Gross Revenue:	\$15,000
>\$10m Gross Revenue:	\$25,000

Revenue Projections \$650,000 in 2014/2015 membership fees \$930,000 in 2016 membership fees

## **Agency/Funder Partners**

No cost Endorse and use services Advisory status only

## **Academic Supporters**

No cost Advisory status only

## **Sponsors**

Seeking \$500,000 in 2014 sponsorship from publishers at Frankfurt to cover operating 2015 expenses while membership drive is underway

Half of 2013 sponsorship drive

