CHORUS

Clearinghouse for the **Open Research** of the United States

A Solution for Public Access

STM Innovations Conference
London, UK
4 December 2013

Howard Ratner, Executive Director, CHOR Inc.

Identification • Discovery • Access • Preservation • Compliance

CHORUS

US Office of Science and Technology Policy (OSTP)

"Increasing Access to the Results of Federally-Funded Scientific Research" – 22 February 2013

- All federal agencies funding $100M or more annually in extramural research must develop public access policies
- Free public access to peer-reviewed research articles (guideline: 12-month embargo, adapted to agency/discipline need)
- Need policies on both articles and data
- Optimize search, archival, and dissemination features to encourage innovation
- Ensure interoperability and long-term stewardship
- Develop plans in consultation with stakeholders

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Clearinghouse for the **Open Research** of the United States

A broad coalition of scholarly journal publishers formed to develop, implement and steward a partnership with the federal research funders for providing public access to the peer review publications that report on federally-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
- Will be applying for US IRS 501(c)(3) tax-exempt status
- 80 publisher signatories and growing
- Received significant sponsorship pledges at Frankfurt October 2013

Goals:

- **Provide public access** to manuscripts/articles reporting on federally funded research
- **Leverage existing infrastructure** and investment of the agencies and publishers
- **Preserve agency funds** for mission critical activities/programs
- Provide for **international scalability**

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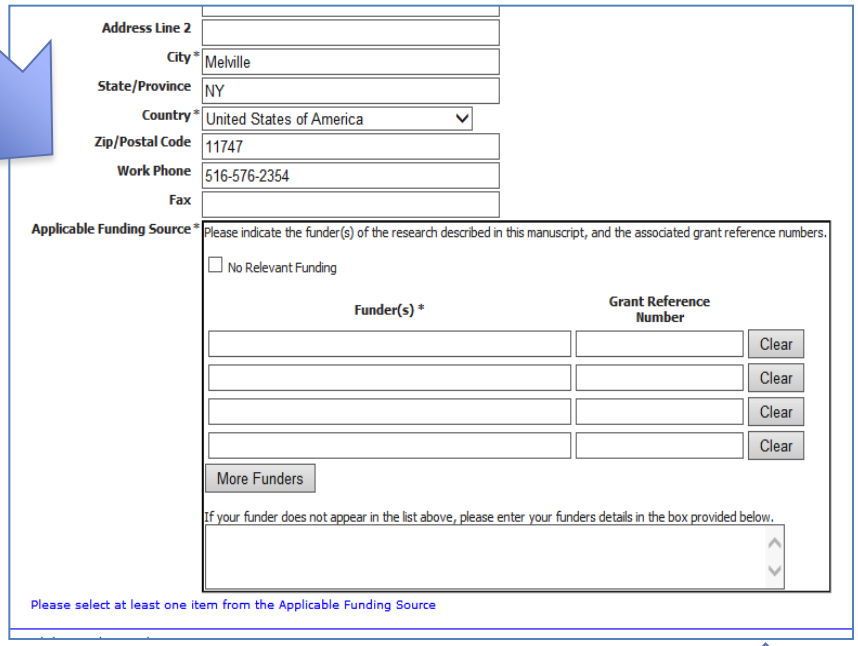
How Does CHORUS Help?

- CHORUS (first service of CHOR Inc.) now offers an open technology platform to meet the public access goals of funding agencies and researchers
- For all key stakeholders:
  - Funding agencies (**identifies** and **provides access** to articles reporting on research they fund, **ensures preservation** of research articles, **ensures** researcher and publisher **compliance)**
  - Authors/researchers/institutions (**simplifies compliance** with funder mandates, **provides access** to research results)
  - Libraries (**ensures preservation** of research articles, **provides access** to research results)
  - The public (**provides access** to articles reporting on publicly funded research)
  - Publishers (**simplifies compliance** with funder mandates, retains traffic)
- No significant cost for agency use or participation because CHORUS builds on the existing infrastructure of the scholarly community (CrossRef, FundRef, Prospect, CLOCKSS, Portico, ORCID, etc)

CHORUS

How CHORUS Works: Identification



eJournalPress

SCHOLARONE™

Editorial Manager

BenchPress HighWire

crossref

fundref

How CHORUS Works: Preservation

MOLECULAR STRUCTURE OF NUCLEIC ACIDS

A Structure for Desoxyribose Nucleic Acid

PRESERVED IN CLOCKSS

PORTICO

Government maintained or other 3rd-party dark archive

How CHORUS Works: Access


MOLECULAR STRUCTURE OF NUCLEIC ACIDS

A Structure for Deoxyribose Nucleic Acid

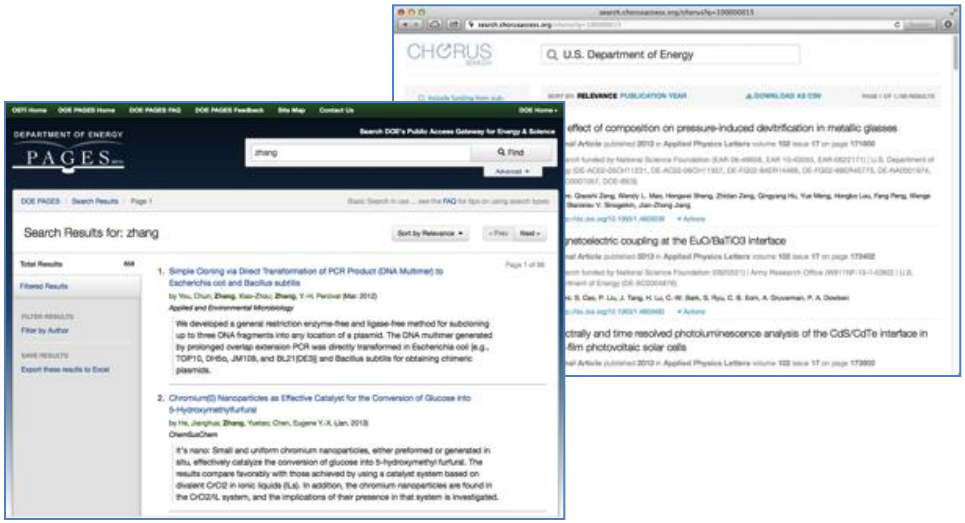
Funding Agency Embargo Period Expires
or Author/Funder Pays for Immediate Public Access

Accepted Author Manuscript
becomes publicly accessible

Version of Record
Becomes publicly accessible

How CHORUS Works: Discovery

CHORUS API



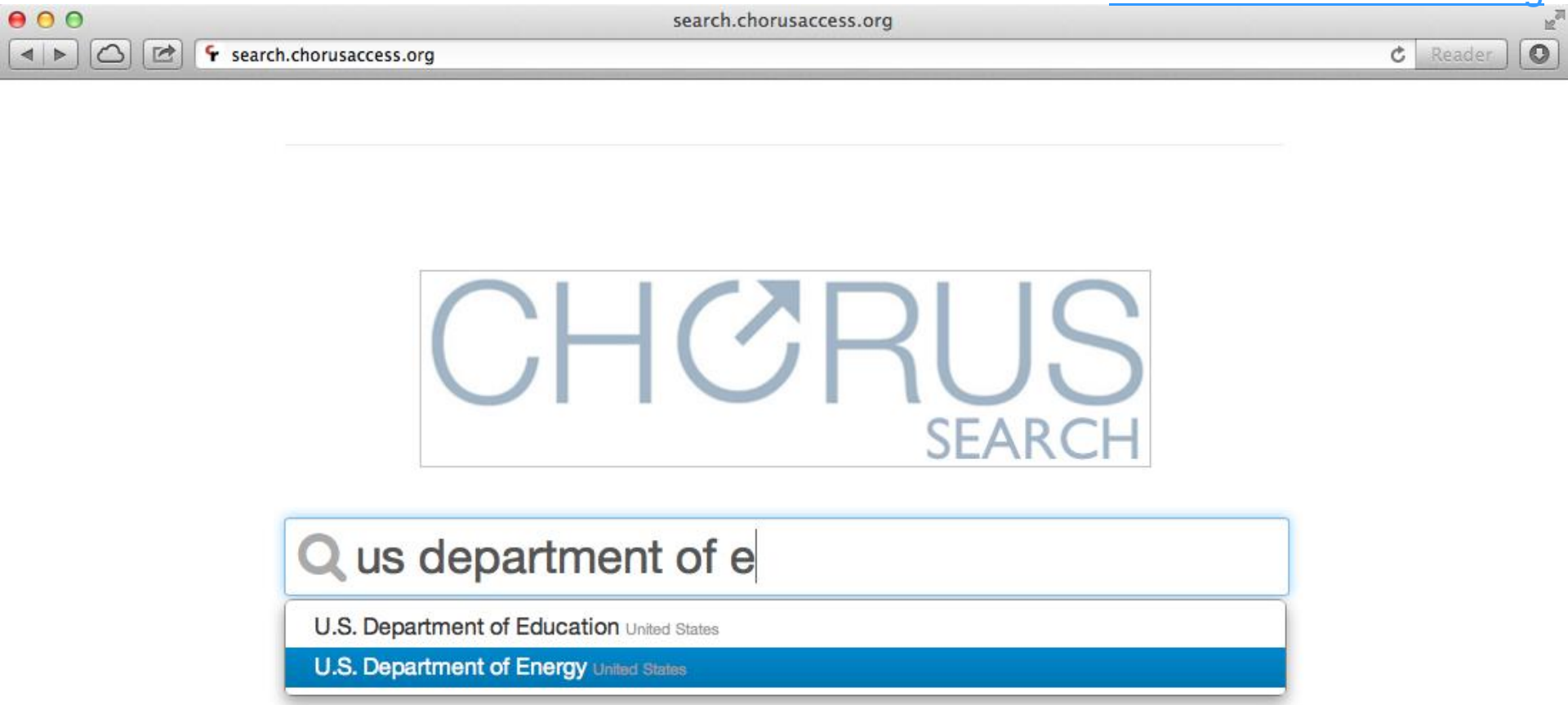
crossref

prospect by CROSSREF

Google

Text and Data-Mining Services

search.chorusaccess.org



search.chorusaccess.org/chorus?q=100000015

search.chorusaccess.org/chorus?q=100000015 Reader

CHORUS SEARCH

U.S. Department of Energy

Include funding from sub-organizations

U.S. DEPARTMENT OF ENERGY

- Research and Development, Office of Electricity Delivery and Energy Reliability
- Technology Innovation and Development, Office of Environmental Management
- Public Information, Office of Public Affairs
- Nuclear Facility Operations, Office of Nuclear Energy
- Clean Coal, Office of Fossil Energy
- Advanced Scientific Computing Research, Office of Science
- Biomass Program, Office of Energy Efficiency and Renewable Energy
- Office of Space and Defense Power Systems, Office of Nuclear Energy
- Energy Policy, Office of General Counsel

SORT BY: **RELEVANCE** PUBLICATION YEAR DOWNLOAD AS CSV PAGE 1 OF 1,156 RESULTS

The effect of composition on pressure-induced devitrification in metallic glasses

Journal Article published **2013** in **Applied Physics Letters** volume **102** issue **17** on page **171905**

Research funded by National Science Foundation (EAR 06-49658, EAR 10-43050, EAR-0622171) | U.S. Department of Energy (DE-AC02-05CH11231, DE-AC02-06CH11357, DE-FG02-94ER14466, DE-FG02-99ER45775, DE-NA0001974, DE-SC0001057, DOE-BES)

Authors: Qiaoshi Zeng, Wendy L. Mao, Hongwei Sheng, Zhidan Zeng, Qingyang Hu, Yue Meng, Hongbo Lou, Fang Peng, Wenge Yang, Stanislav V. Sinogeikin, Jian-Zhong Jiang

http://dx.doi.org/10.1063/1.4803539 Actions

Magnetoelectric coupling at the EuO/BaTiO3 interface

Journal Article published **2013** in **Applied Physics Letters** volume **102** issue **17** on page **172402**

Research funded by National Science Foundation (0820521) | Army Research Office (W911NF-10-1-0362) | U.S. Department of Energy (DE-SC0004876)

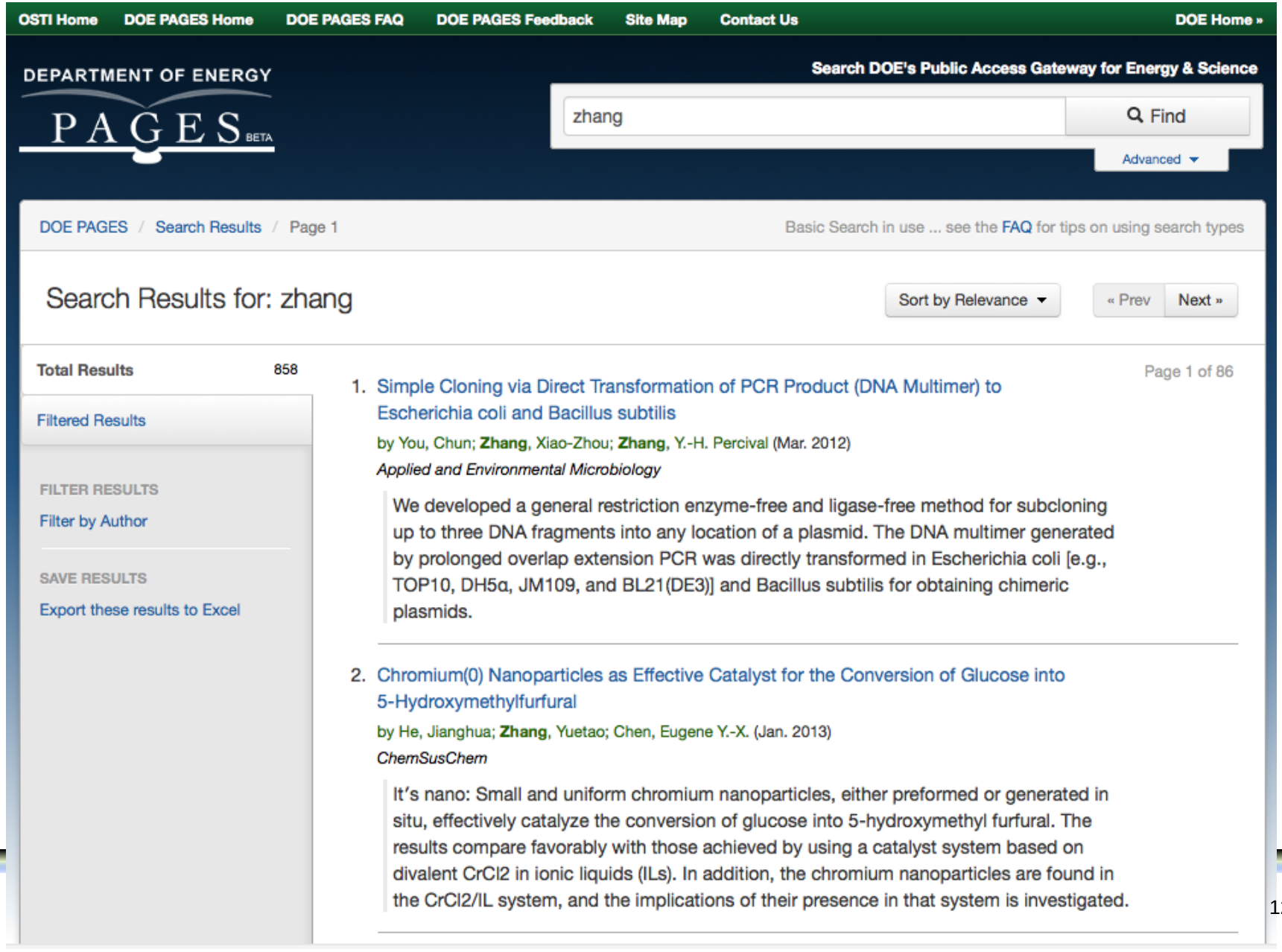
Authors: S. Cao, P. Liu, J. Tang, H. Lu, C.-W. Bark, S. Ryu, C. B. Eom, A. Gruverman, P. A. Dowben

http://dx.doi.org/10.1063/1.4803492 Actions

Spectrally and time resolved photoluminescence analysis of the CdS/CdTe interface in thin-film photovoltaic solar cells

Journal Article published **2013** in **Applied Physics Letters** volume **102** issue **17** on page **173902**

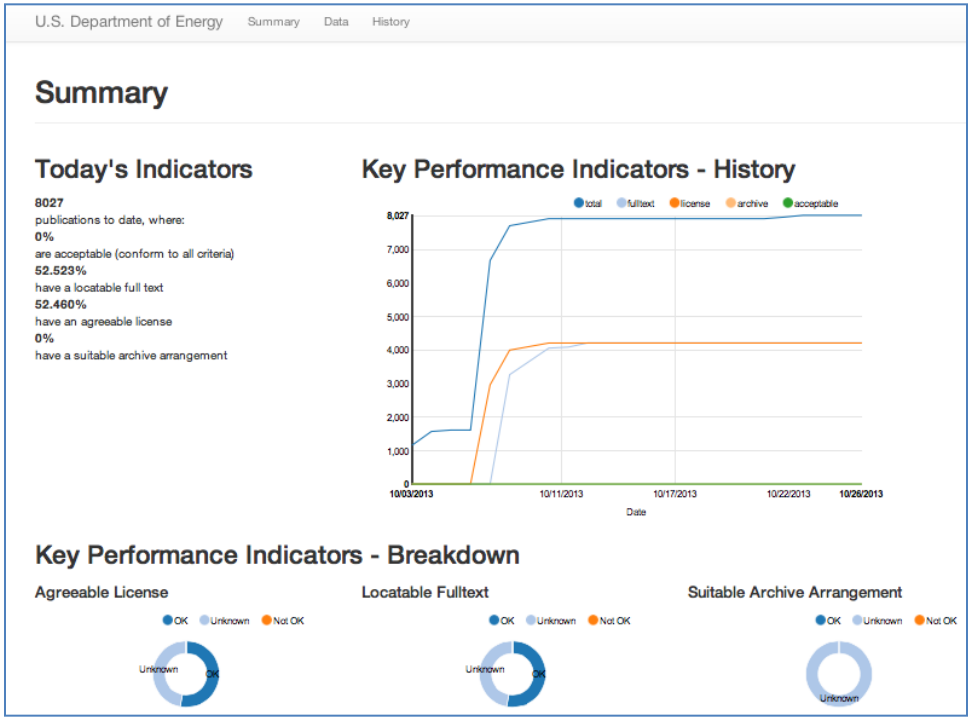
API Integration with Agency Portals



How CHORUS Works: Compliance

API and Dashboards for monitoring and tracking publisher contributions to the CHORUS system

CHORUS API



Live CHORUS DOE dashboard:

http://dashboard.chorusaccess.org/usdoe

- Government Agency Reports
- Institution Reports
- Publisher Reports

U.S. Department of Energy Summary Data History

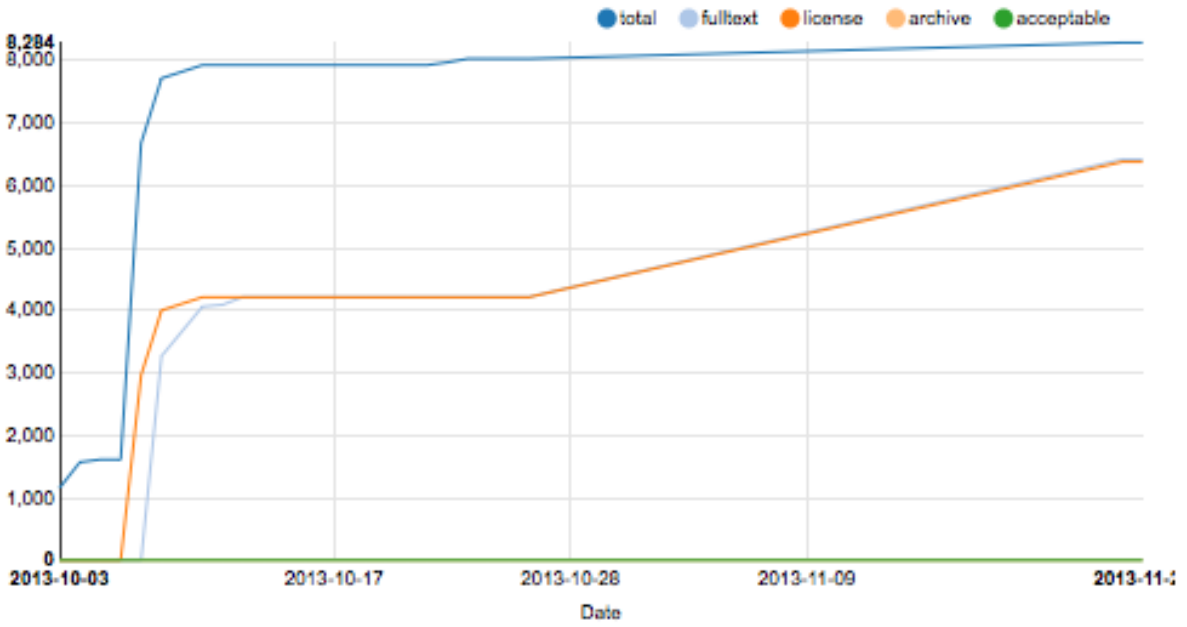
http://dashboard.chorusaccess.org/usdoe

Today's Indicators

8284
publications to date, where:
0%
are acceptable (conform to all criteria)
77.487%
have a locatable full text
76.980%
have an agreeable license
0%
have a suitable archive arrangement

Deposits identifying US DOE funding

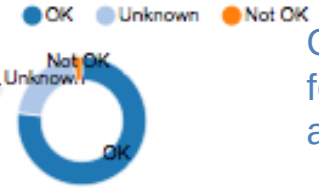
Key Performance Indicators - History



Key Performance Indicators - Breakdown

Agreeable License

Records having agreeable licenses



Locatable Fulltext

Content tested for public accessibility

Suitable Archive Arrangement

Deposits made to dark archives

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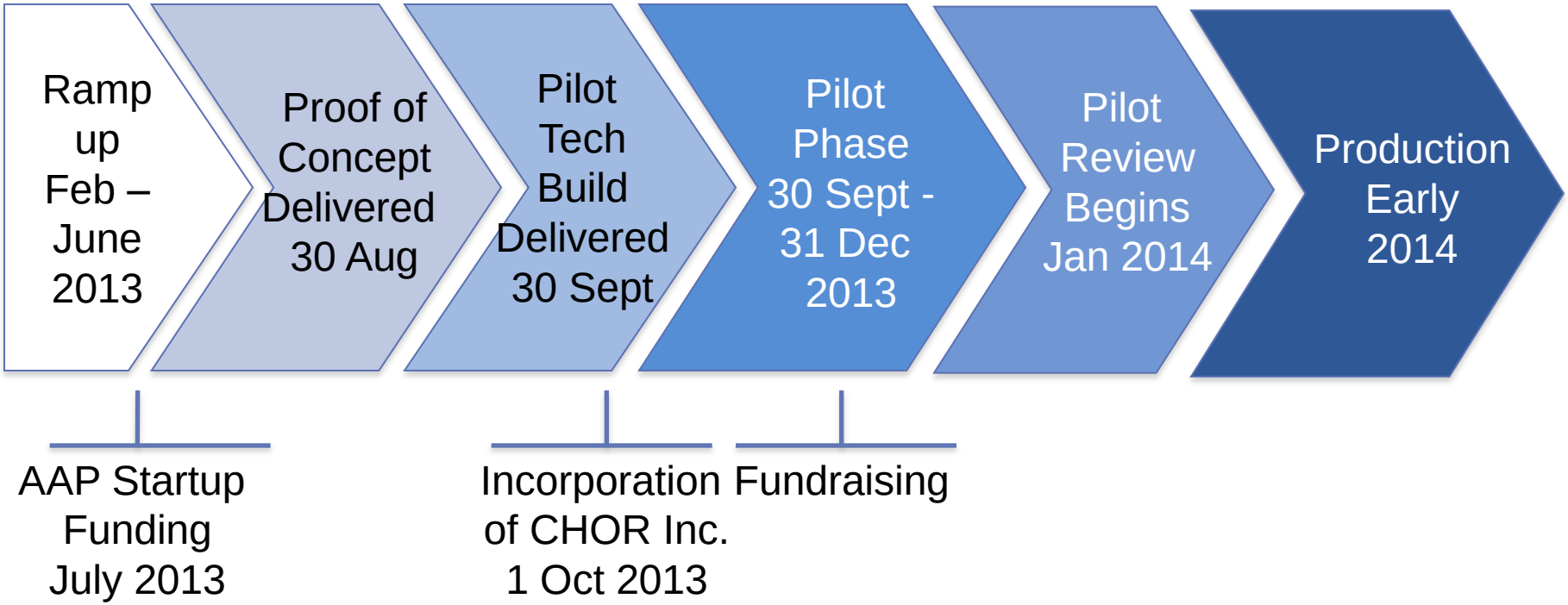

What Do Publishers Need To Do?

- Become a signatory of CHORUS
- Become a member of CrossRef
- Sign up for FundRef as part of CrossRef membership
- Submit Agency Related data to FundRef for all new content
- Send public access content reuse License and Embargo metadata to CrossRef
- Deposit full text URIs with CrossRef Prospect
- Sign CHORUS Pilot Agreement
- Send relevant content to archiving service

CHORUS

CHORUS Live Pilot Services

http://dashboard.chorusaccess.org/usdoe
http://dashboard.chorusaccess.org/usda
http://dashboard.chorusaccess.org/nsf
http://search.chorusaccess.org

7+ pilot publishers
13,000+ pilot records
80+ publisher signatories

Identification • Discovery • Access • Preservation • Compliance

Become a Signatory!
www.chorusaccess.org

Contact: Howard Ratner

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Identification • Discovery • Access • Preservation • Compliance

Time’s Up!

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