



Connecting Research  
and Researchers

# Why Fundref?

exTyles User Group Meeting, Cambridge, MA  
November 12, 2015

Alice Meadows

Director of Communications

[a.meadows@orcid.org](mailto:a.meadows@orcid.org)

<http://orcid.org/0000-0003-2161-3781>

[#alicejmeadows](https://twitter.com/alicejmeadows)

# Some key challenges

- **Complying** with funder mandates
- Making research contributions **discoverable**
- **Identifying** and **recognizing** contributors
- Ensuring the widest possible **access**
- Measuring **impact**

*Without imposing admin burden on researchers*



# Research infrastructure



**aka digital plumbing**

Foundational services that improve scholarly  
communications for *all researchers*



A photograph of a room that is completely overwhelmed by books and papers. Shelves are packed with books, and the floor is covered in a chaotic mess of papers, books, and other items. A small lamp is visible in the background, and a small box with a face on it sits on the floor in the foreground. The text "Names are messy!" is overlaid in green.

**Names are messy!**



ORCID provides persistent digital identifiers that distinguish researchers from each other



ORCID iD	First name	Last name
0000-0002-8898-4520	Koichi	Tanaka
0000-0001-9115-2015	Koichi	Tanaka
0000-0001-8666-6396	Koichi	Tanaka
0000-0002-3180-7881	Koichi	Tanaka

- National Institutes of Health
  - NIH
  - N.I.H.
- But not:
  - Nihon University
  - NIHR





- A registry of funder names and IDs, abbreviations, alternate names, and countries
  - Funder ID required for inclusion in Fundref search
- Open resource maintained by Crossref and Elsevier
- Integrated into eJP, EM, SI m/s submission systems
- IDs may be included in article metadata submitted to Crossref

# How can Fundref help?

- Compliance ✓
- Discoverability ✓
- Identification ✓
- Recognition ✓
- Access ✓
- Impact ✓



# Example 1: CHORUS

**CHORUS** Advancing Public Access to Research

Search this website

JOIN CHORUS

About Services News Events Resources Contact

SEARCH SERVICE DASHBOARD SERVICE

## A NEW PATH TO PUBLIC ACCESS

*An innovative and cost-effective approach to delivering public access to scholarly content reporting on funded research.*

Researchers Funders Publishers Institutions The Public

### HOW IT WORKS

CHORUS leverages existing infrastructure to enable sustainable, cost-effective, and transparent public

**Funder**

### TOTAL ARTICLES MONITORED

200K  
180K  
160K  
140K  
120K  
100K

### CHORUS DASHBOARD HIGHLIGHTS

DOIs/Articles	Description
<b>178,191</b>	reported in CHORUS dashboard

**CHORUS is powered by Fundref**

# What is CHORUS?

- Community-led response to OSTP memo
- Not-for-profit membership organization
- Online services and best practices to enable public access
- Uses existing infrastructure and workflows
  - Including Fundref to identify funder in metadata



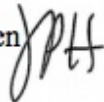
EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF SCIENCE AND TECHNOLOGY POLICY  
WASHINGTON, D.C. 20502

February 22, 2013

MEMORANDUM FOR THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES

FROM:

John P. Holdren  
Director



SUBJECT: Increasing Access to the Results of Federally Funded Scientific Research

**1. Policy Principles**

The Administration is committed to ensuring that, to the greatest extent and with the fewest constraints possible and consistent with law and the objectives set out below, the direct results of federally funded scientific research are made available to and useful for the public, industry, and the scientific community. Such results include peer-reviewed publications and digital data.

Scientific research supported by the Federal Government catalyzes innovative breakthroughs that drive our economy. The results of that research become the grist for new insights and are assets for progress in areas such as health, energy, the environment, agriculture, and national security.

Access to digital data sets resulting from federally funded research allows companies to focus resources and efforts on understanding and exploiting discoveries. For example, open weather data underpins the forecasting industry, and making genome sequences publicly available has spawned many biotechnology innovations. In addition, wider availability of peer-reviewed publications and scientific data in digital formats will create innovative economic markets for services related to curation, preservation, analysis, and visualization. Policies that mobilize these publications and data for re-use through preservation and broader public access also maximize the impact and accountability of the Federal research investment. These policies will accelerate scientific breakthroughs and innovation, promote entrepreneurship, and enhance economic growth and job creation.

- Simplifies access compliance for researchers
  - Built into submission process – no extra work
- Verifies that articles are publicly available
- Dashboard reports
  - Funders, institution, and public can freely monitor compliance
  - Members-only reports (for self-publishers and societies working with publishing partner)



## U.S. Department of Energy

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

### Today's Indicators

25,857 - Publications to date, where: ⓘ

35.3% - Verified publicly accessible ⓘ

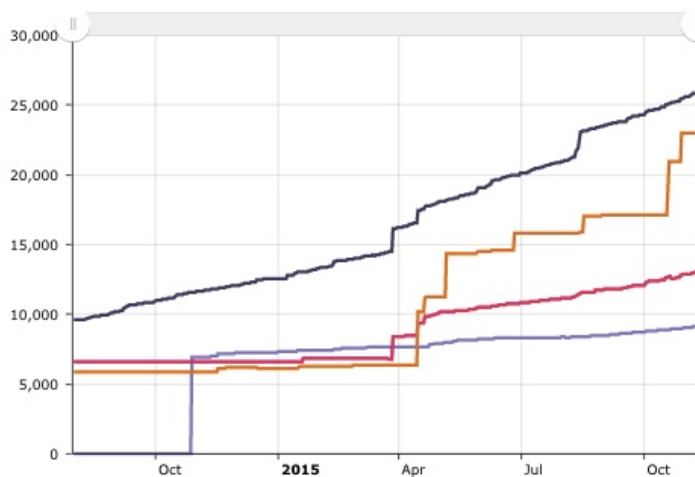
50.3% - Reuse terms available ⓘ

88.8% - Archived ⓘ

### Key Performance Indicators - History

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

● Total ● Publicly Accessible ● Reuse Terms Available ● Archived



- Drives traffic to best available version of article
  - On publisher's platform
- Articles are discoverable via CHORUS Search, search engines, agency portals
- Open APIs allow development of new tools that support discovery and access



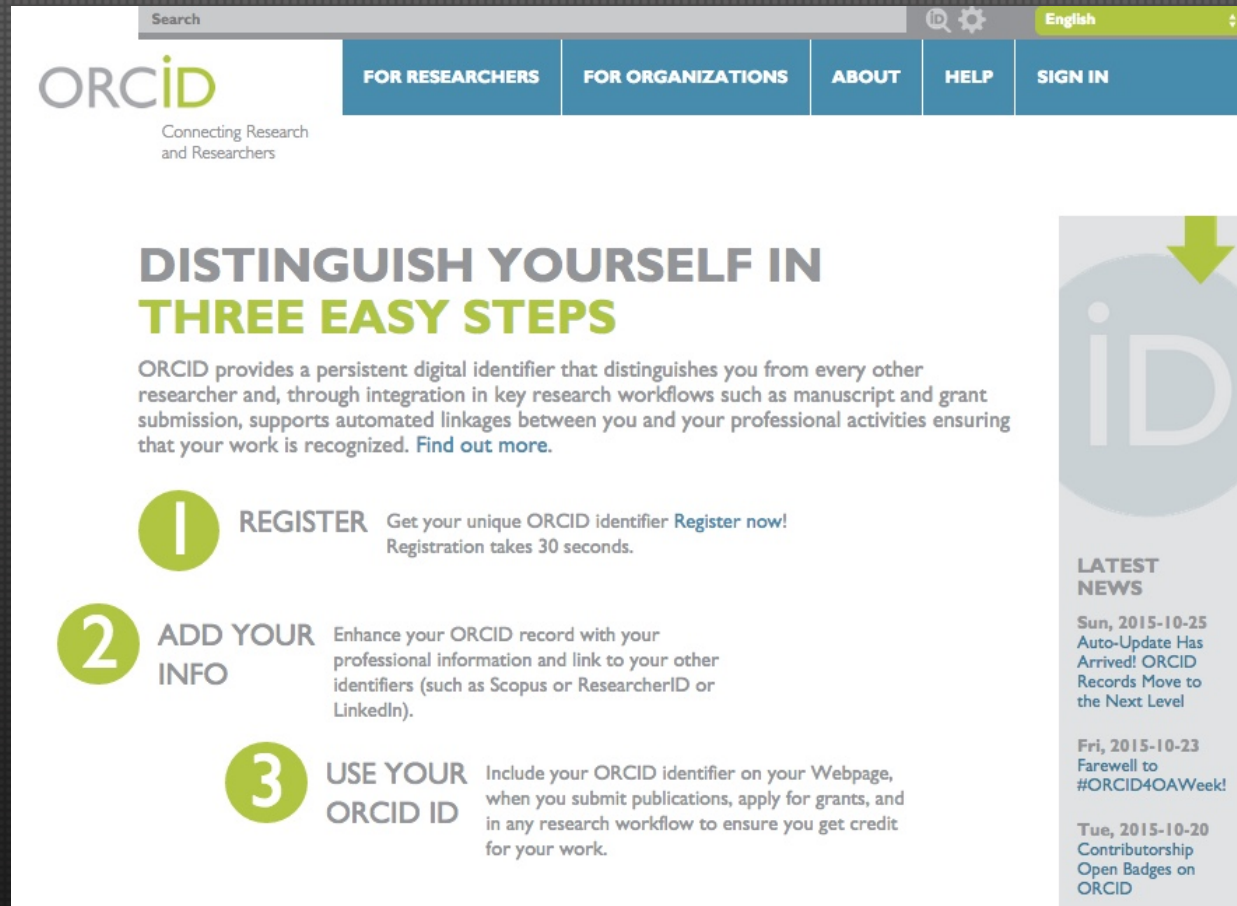
- Clearly identifies articles that are (or will be) publicly available
- Associates articles with relevant funders

# CHORUS helps access

- Minimizes the cost of providing public access
  - No cost to funders, institutions, researchers, or the public
- Provides researchers and the public with easy access to publicly-funded articles
  - ‘Gold’ articles are available immediately on publication
  - ‘Green’ articles are available after an embargo period
- Perpetual public access enabled



- 38 member organizations
  - Includes major publishers, scholarly associations, and publishing vendors
- Five funder agreements
  - Two announced: Department of Energy, Smithsonian Institutions
  - More announcements soon
- >420k DOIs with Fundref IDs (>180k+ US)
- >176k reported in CHORUS dashboard
- >33k verified publicly accessible in CHORUS



The screenshot shows the ORCID website interface. At the top, there is a search bar, a language dropdown set to 'English', and a navigation menu with links for 'FOR RESEARCHERS', 'FOR ORGANIZATIONS', 'ABOUT', 'HELP', and 'SIGN IN'. The main heading reads 'DISTINGUISH YOURSELF IN THREE EASY STEPS'. Below this, a paragraph explains that ORCID provides a persistent digital identifier. The three steps are: 1. REGISTER (Get your unique ORCID identifier, Register now!, Registration takes 30 seconds), 2. ADD YOUR INFO (Enhance your ORCID record with your professional information and link to your other identifiers), and 3. USE YOUR ORCID ID (Include your ORCID identifier on your Webpage, when you submit publications, apply for grants, and in any research workflow to ensure you get credit for your work). On the right side, there is a 'LATEST NEWS' section with three items: 'Sun, 2015-10-25 Auto-Update Has Arrived! ORCID Records Move to the Next Level', 'Fri, 2015-10-23 Farewell to #ORCID4OAWWeek!', and 'Tue, 2015-10-20 Contributorship Open Badges on ORCID'. A large 'iD' logo with a green arrow pointing down is also visible on the right.

Search

English

ORCID  
Connecting Research  
and Researchers

FOR RESEARCHERS FOR ORGANIZATIONS ABOUT HELP SIGN IN

## DISTINGUISH YOURSELF IN THREE EASY STEPS

ORCID provides a persistent digital identifier that distinguishes you from every other researcher and, through integration in key research workflows such as manuscript and grant submission, supports automated linkages between you and your professional activities ensuring that your work is recognized. [Find out more.](#)

- 1 REGISTER** Get your unique ORCID identifier [Register now!](#)  
Registration takes 30 seconds.
- 2 ADD YOUR INFO** Enhance your ORCID record with your professional information and link to your other identifiers (such as Scopus or ResearcherID or LinkedIn).
- 3 USE YOUR ORCID ID** Include your ORCID identifier on your Webpage, when you submit publications, apply for grants, and in any research workflow to ensure you get credit for your work.

**LATEST NEWS**

Sun, 2015-10-25  
Auto-Update Has Arrived! ORCID Records Move to the Next Level

Fri, 2015-10-23  
Farewell to #ORCID4OAWWeek!

Tue, 2015-10-20  
Contributorship Open Badges on ORCID

# ORCID uses Fundref registry



- Free, non-proprietary registry of persistent unique public identifiers for researchers
- Non-profit community initiative supported by member fees
- Open data, software, APIs, and documentation
- Integrated with numerous researcher workflows including grant submission
- Uses Fundref to connect grant awards to ORCID iDs

- Reduces reporting burden for researchers and their institutions
- Helps keep institutional repositories updated



- Distinguishes researchers from others with the same or similar names and connects researchers across their name variations
- Unambiguously connects researchers with their research contributions and affiliations
- Facilitates search across platforms

- Enables researchers to connect their ORCID iD with their research contributions
- Enables funders, institutions, publishers, societies, and others to connect iDs with many types of research contribution



- Allows funders to monitor their funded research irrespective of grantee moves, name changes, etc
- Facilitates funder gap analysis, inter-program comparisons, and more

- >1.7m registrants
- ~350 organizational members
  - 60% research institutions
  - 55% Europe
  - 4 national consortia
- >200 live integrations



- Universal adoption
- User-friendliness issues
- Coverage growing but not yet comprehensive
- Fundref funders with no IDs

- Grow membership/become self-sustaining
- Partner with more agencies
- Engage with wider community (beyond publishers and funders)
- Agree international strategy
- Evolve services in tandem with the needs of the scholarly community
- Work with service providers to ease the path to full implementation



- Implementation throughout workflows: collection *and* connection
- Define communications: what ORCID is and is not
- Continued cross-sector and international engagement

orcid.org/blog  
#ORCID\_Org

Alice Meadows

[a.meadows@orcid.org](mailto:a.meadows@orcid.org) #alicejmeadows

<http://orcid.org/0000-0003-2161-3781>

orcid.org #ORCID\_Org