

# Hot Topics: The DuraSpace Community Webinar Series

Series Eleven:

## “Integrating ORCID Persistent Identifiers with DSpace, Fedora and VIVO”

Curated by Josh Brown,  
*Regional Director Europe, ORCID*



## Webinar 2:

# Hydra: many heads, many connections. Enriching Fedora Repositories with ORCID

Presented by:

**Laura Paglione**, Technical Director,  
ORCID

**Rick Johnson**, Head, Digital Library Services,  
University of Notre Dame



# ORCID and Hydra

Laura Paglione, ORCID Technical Director

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<http://orcid.org/0000-0003-3188-6273>



# Name ambiguity is a problem

“Of the more than 6 million authors in a major journal citations and abstracts database, more than two-thirds of them share a last name and single initial with another author, and an ambiguous name in the same database refers on average to eight people.”

[http://ands.org.au/newsletters/share\\_issue18.pdf](http://ands.org.au/newsletters/share_issue18.pdf)

# Name ambiguity is a problem



**Julie Banfield**

@42jkb



Follow

I've started my @ORCID\_Org ID. My publications are in different names so this is a perfect solution. Well done and thanks!

↩ Reply ↻ Retweet ★ Favorite ⋮ More

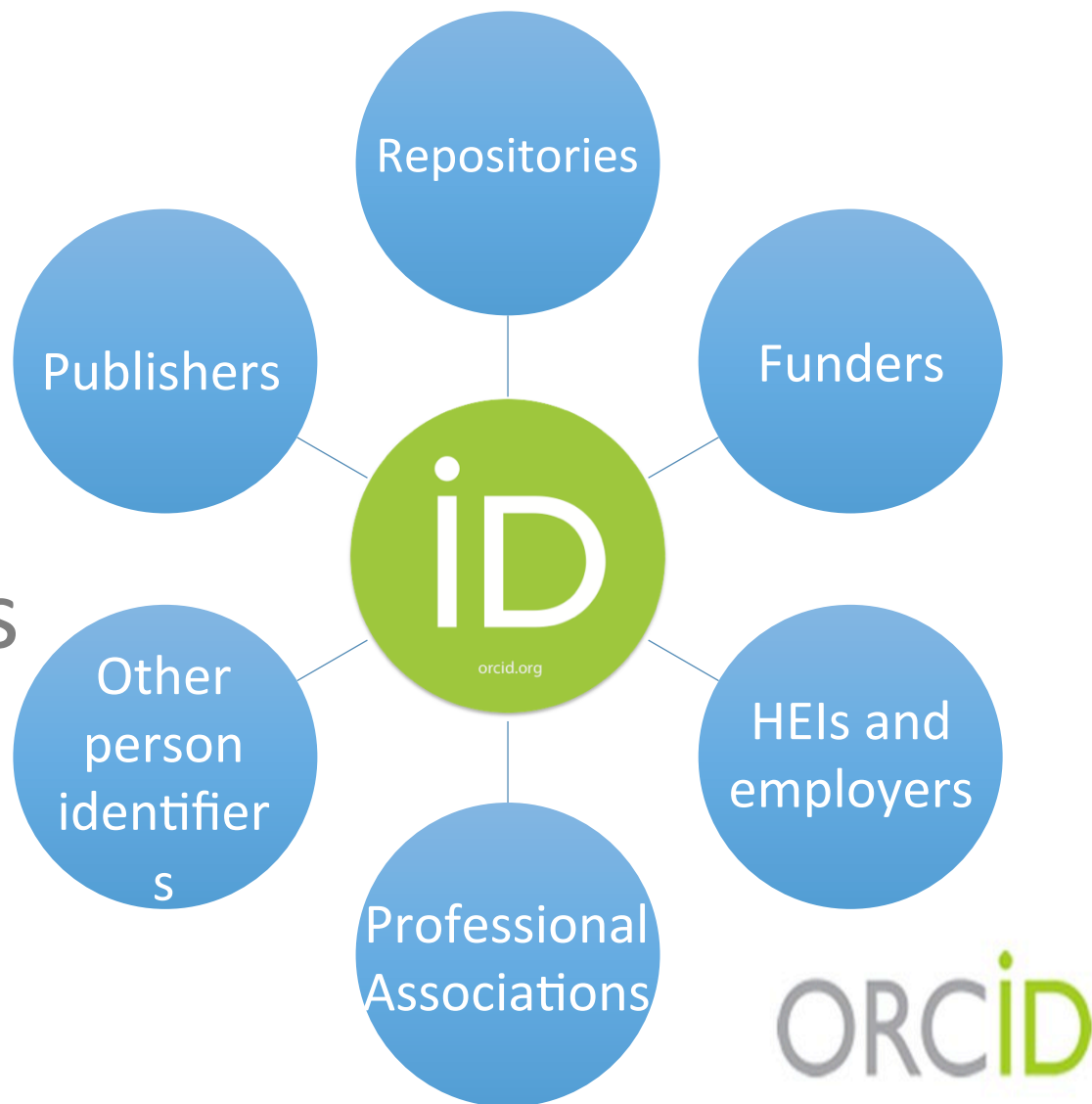
12:20 AM - 22 Jan 2014

ORCID

# ORCID is a hub

ORCID APIs  
connect:

- researchers
- their works
- organizations
- other identifiers

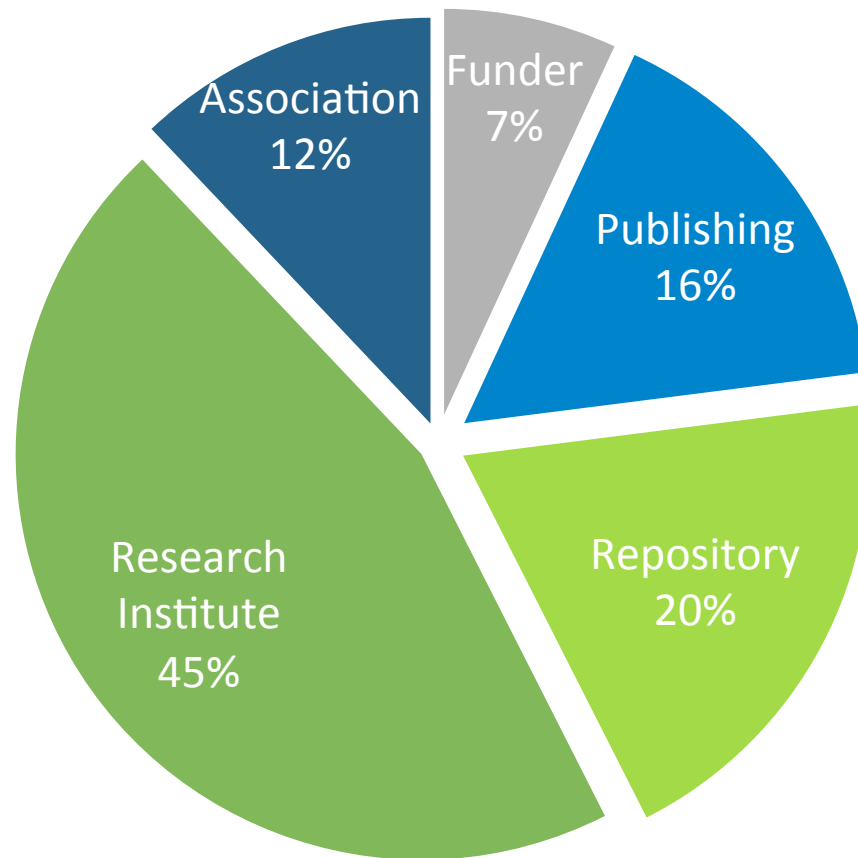


# ORCID adoption

195+  
members

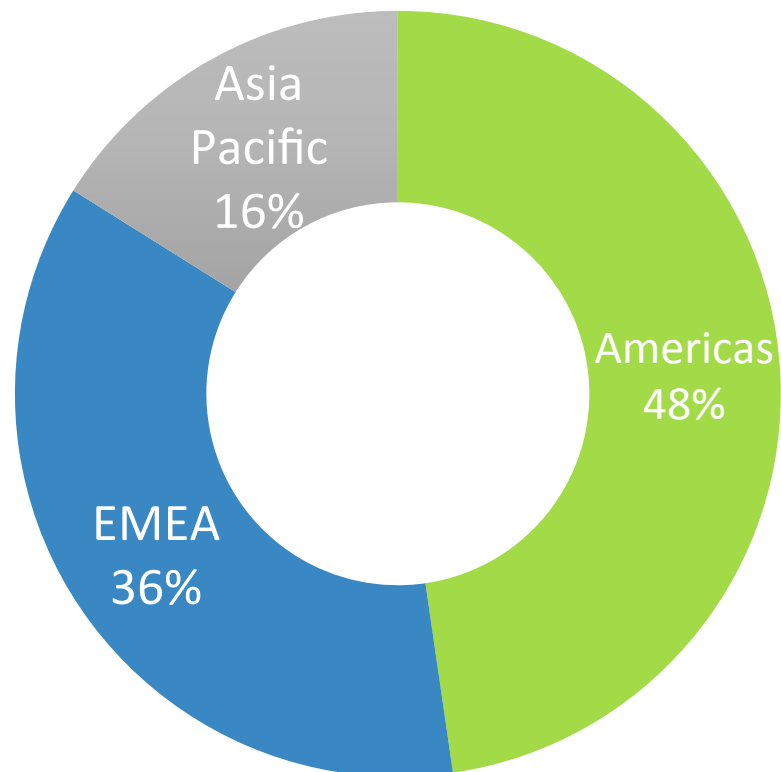
ORCID

# ORCID adoption





# ORCID adoption



# The Adoption and integration program

Running from 2013 to 2014, the program was designed to increase ORCID adoption and integration in universities.

- 9 projects
- 13 integrations
- >7k slidedeck views



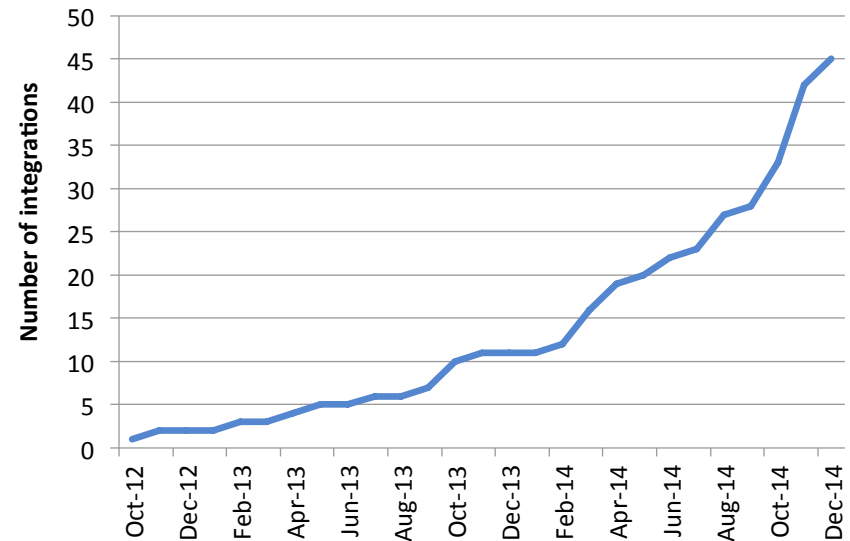
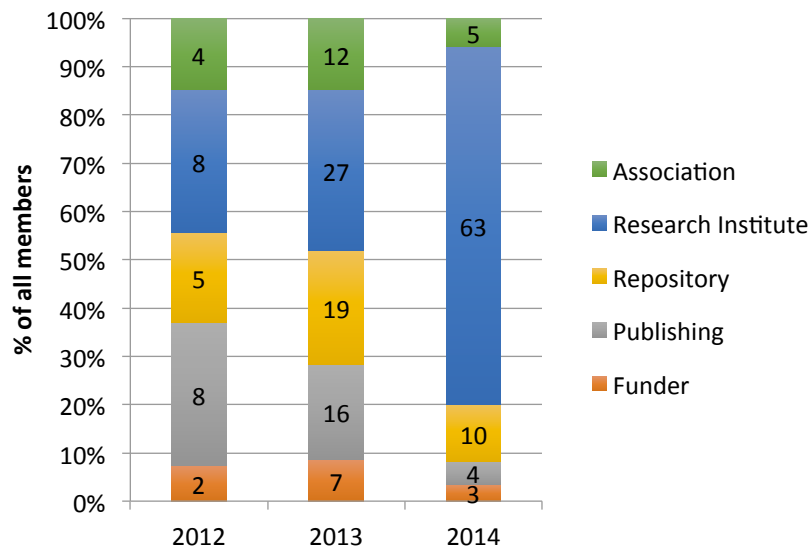
**Alfred P. Sloan  
FOUNDATION**

<http://dx.doi.org/10.6084/m9.figshare.1290632>

ORCID

# The Adoption and integration program

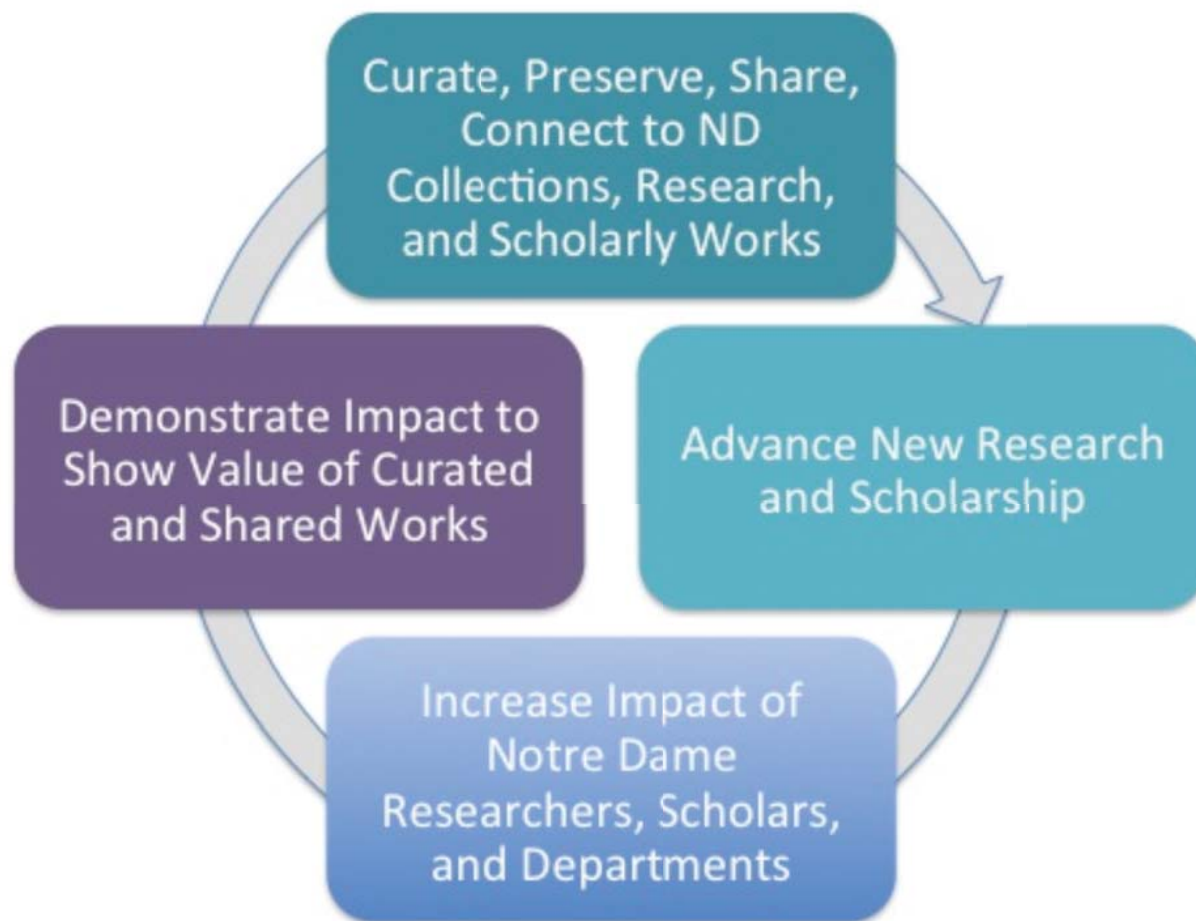
Universities are now the fastest growing member segment.



Opportunity costs are lower, and integrations are faster..



## Why ORCID and Repositories?



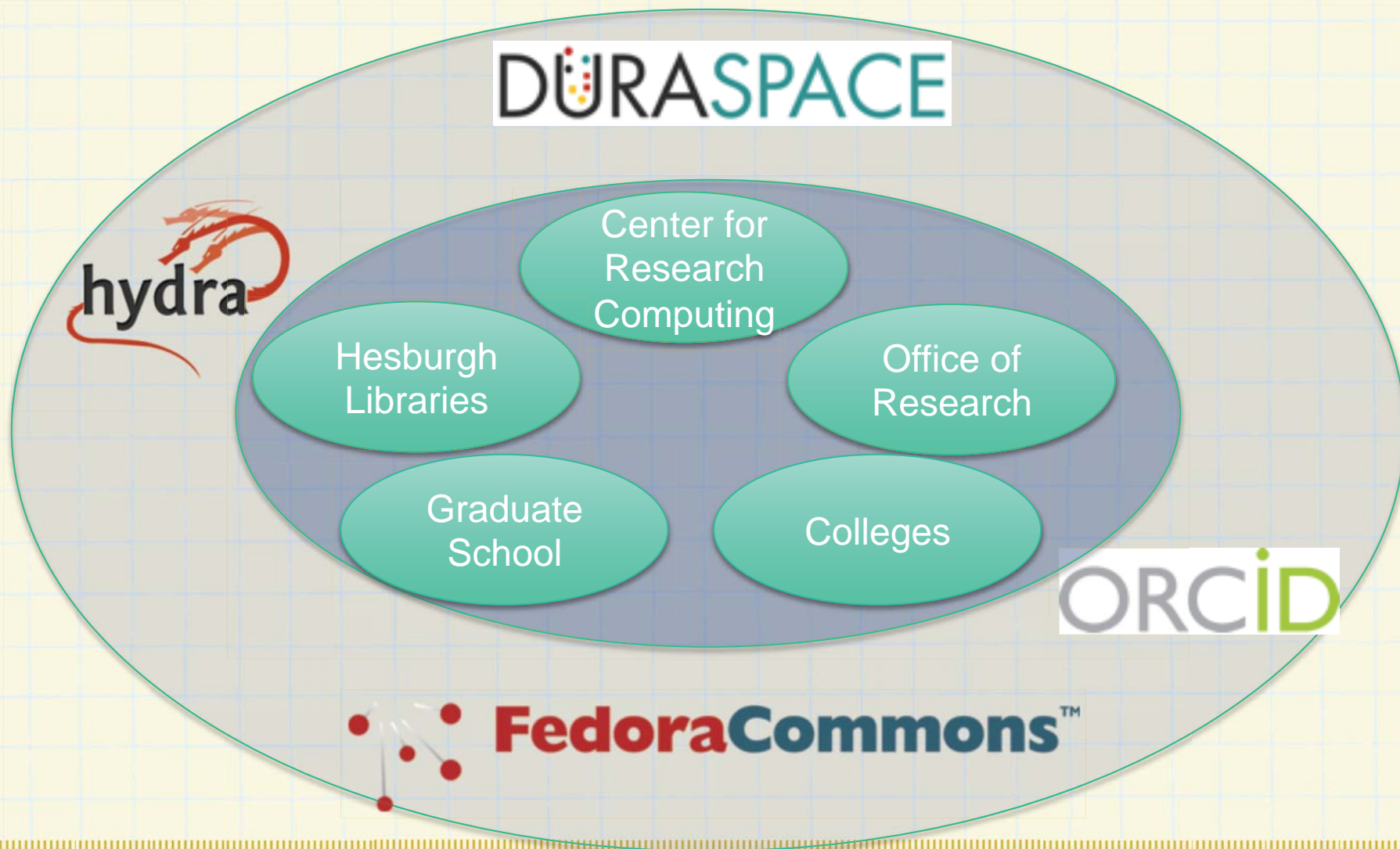


## Why ORCID and Repositories?

- **Flip the focus:** from works to authors to demonstrate and capture impact
- **Better data:** ORCID ids can disambiguate a researchers activity from others (e.g. publications, citations) and enrich metadata
- **Connect to External Data:** External metadata and metrics can then be incorporated from external sources
- **Increase exposure** of repository works by pushing back to ORCID



## Our Community







## Stakeholders

- Library
- Campus: Graduate School, Undergraduate Colleges
- Leadership: Office of Research, Office of the Provost
- Community – Hydra, Fedora
  - *Community First; Institution Second\**
  - **Lead Institution:** *University of Notre Dame*
  - **Other Contributors:** *Northwestern University, Yale University, University of Cincinnati, Penn State University, University of Virginia*
  - **Additional Adopters:** *Stanford University, Royal Library of Denmark, University of Hull (UK), Indiana University*

\* *Conceived from the beginning as a community solution*



## A Little Bit About Hydra

- Distributed, collaborative, open source effort started in 2008 (**with zero grant money**) by University of Virginia, University of Hull, and Stanford University\*
- A framework for feature-rich, tailored applications and workflows (“heads”) on top of Fedora Commons
- Collaboratively built “solution bundles” that can be adapted and modified to suit local needs.
- 47+ known partner or adopter institutions
- A community of developers and adopters extending and enhancing the core
  - *If you want to go fast, go alone. If you want to go far, go together.*

\* University of Notre Dame joined in 2010





# Point Solution Approach...Welcome to Siloville

ETDs  
Theses

Books,  
Articles

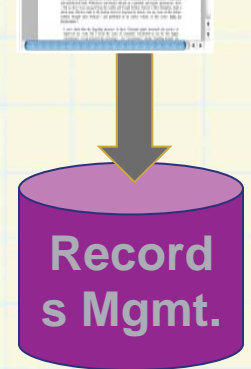
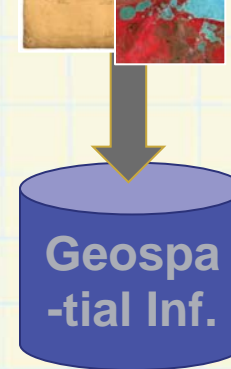
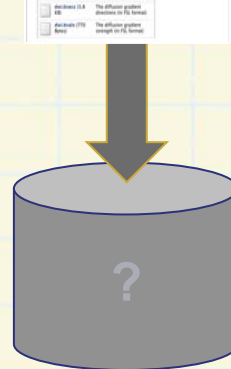
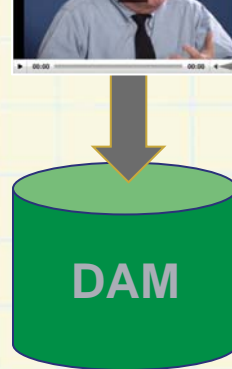
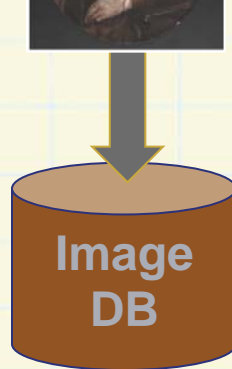
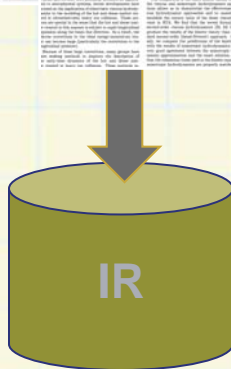
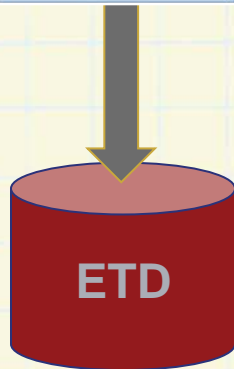
Images

Audio-  
Visual

Research  
Data

Maps  
& GIS

Docu-  
ments



Management

Effective?

Access

Sustainable?

Preservation(?)



# Repository Powered Approach

ETDs  
(Theses)

Books,  
Articles

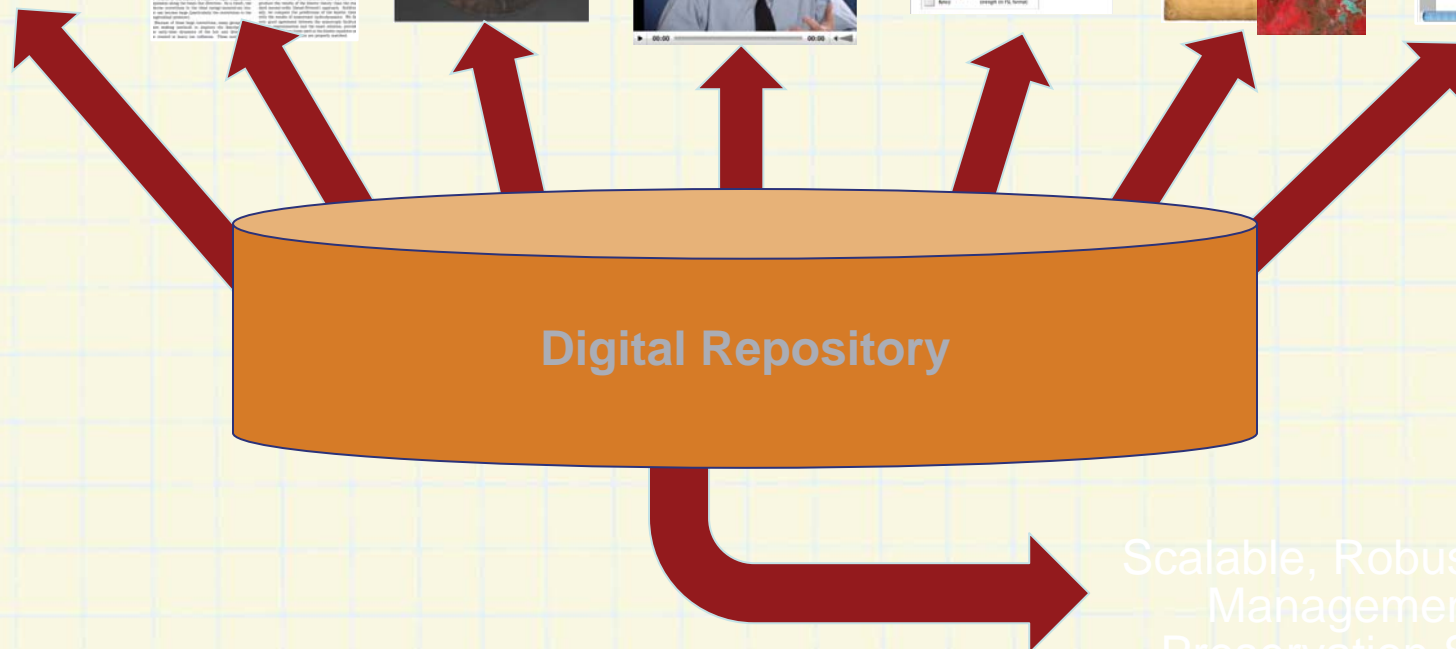
Images

Audio-  
Visual

Research  
Data

Maps  
& GIS

Docu-  
ments



Scalable, Robust, Shared  
– Management and  
Preservation Services





## One Body, Many Heads...

ETDs  
(Theses)

Books,  
Articles

Images

Audio-  
Visual

Research

Maps  
& GIS

Docu-  
ments



hydra

Scalable, Robust, Shared  
Management and  
Preservation Services





## Hydra ORCID Plug-in Goals

- Integrate ORCID into Notre Dame Institutional Repository CurateND
- Any Hydra institution can adopt quickly
- Link repository accounts to ORCID ids
- Share author and work metadata between repository and ORCID
- Third-party Authentication for external collaborators
- ORCID gem used by anyone using Ruby on Rails
- Increase Adoption of ORCID to increase its utility
  - The more researchers that use it, the more useful it becomes

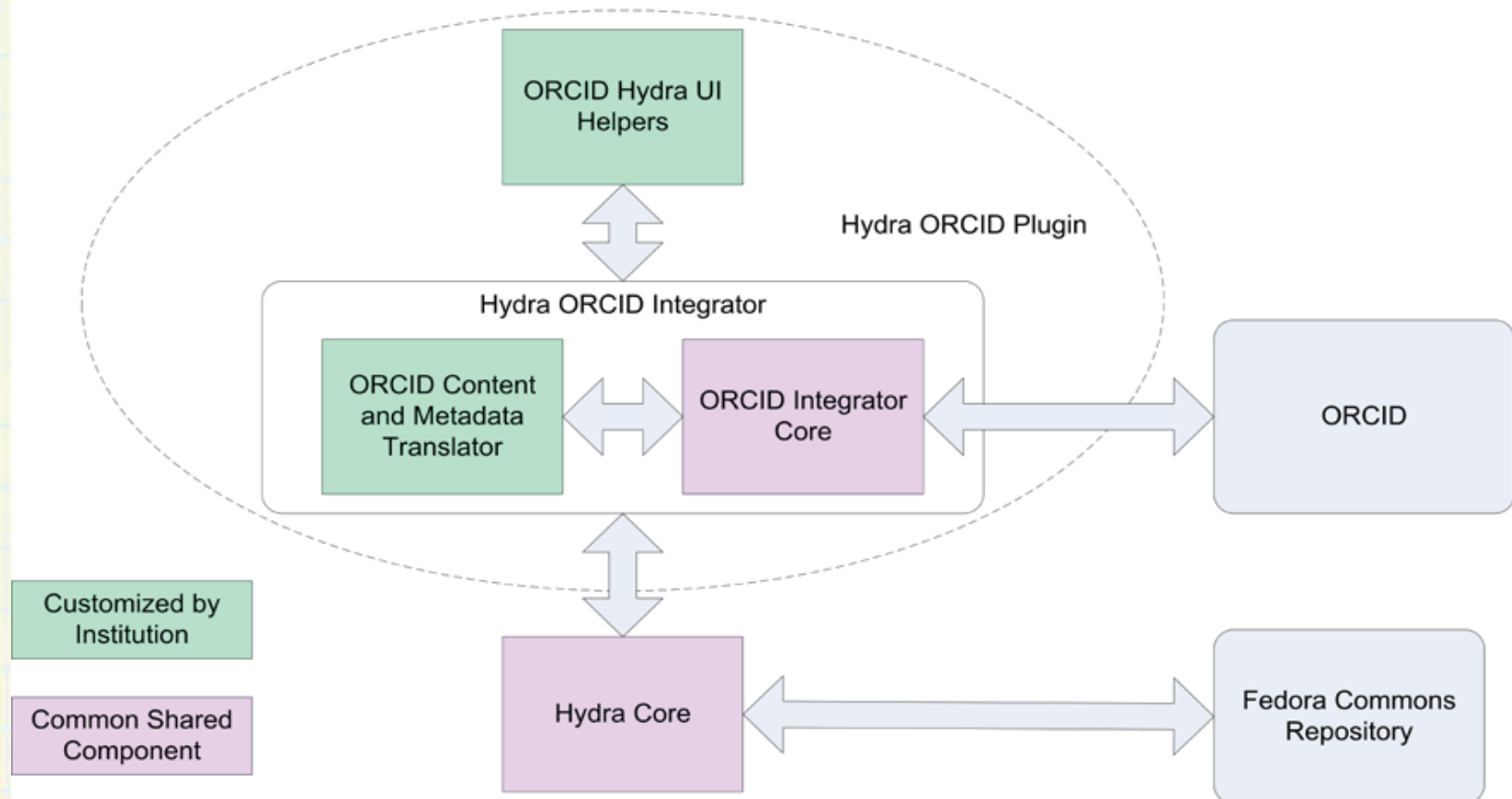


- Repository user linked to ORCID iD
  - Includes creating, searching, and entering existing ORCID iD
- External collaborator authentication via ORCID iD
- Publish repository user works or bio information to ORCID
- Import researcher metadata records from ORCID



## Architecture

### Hydra ORCID Plugin Architecture





## ORCID API Integration Details

- Create new ORCID iDs for users within a Hydra/Fedora based IR
- Retrieve existing ORCID iD for researcher
- Link ORCID iDs to user profile in the IR
- Export data into ORCID from IR\*
- Import data into ORCID from IR\*

\* *Beta*



## Plugin in Action

UNIVERSITY of NOTRE DAME HESBURGH LIBR

# CurateND

Search CurateND

+ RICK JOHNSON ▾ HE

### Account Details

[Edit My Profile](#)  
[ORCID Settings](#)

#### Personal Information

Name

Title ⓘ

Personal webpage

Blog

#### Researcher Identification Information

#### Contact Information

★ Email

Alternate email

Campus phone number

Alternate phone number



# CurateND



RICK J

## ORCID Settings

[Edit My Profile](#)[ORCID Settings](#)

### Open Researcher and Contributor ID (ORCID)

[Look up your existing ORCID](#)[Create an ORCID](#)

Enter your existing ORCID (####-####-####-####)

[Connect](#)

CurateND is a service of the [Hesburgh Libraries of Notre Dame](#).

For Technical Support call (574) 631-6258 or email [curate@nd.edu](mailto:curate@nd.edu).

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## ORCID Settings — Create an ORCID

[Edit My Profile](#)[ORCID Settings](#)

★ Given names

★ Family name

★ Primary email

Primary email confirmation

[Create Profile request](#)

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## Hydra ORCID Integrator ?

has asked for the following access to your ORCID Record



Get your ORCID iD

Update your works

Add works

This application will not be able to see your ORCID password, or other private info in your ORCID Record. [Privacy Policy](#).

Already have an ORCID iD? [Sign In](#).

First name  \* ?

Last name

Email  \*

Re-enter email  \*

Password  \* ?

Confirm password  \*

Default privacy for new research activities (Works, Affiliations, Funding, etc)



# CurateND



RICK JOHNSON

Your ORCID profile request has been submitted. Check your email for more information from ORCID.

## ORCID Settings

[Edit My Profile](#)[ORCID Settings](#)

### Open Researcher and Contributor ID (ORCID)

You have an ORCID (0000-0002-2391-7570).

However, your ORCID has not been verified by this system. There are a few possibilities:

- You may not have claimed your ORCID. [Find out more about claiming your ORCID.](#)
- You have claimed your ORCID, but have not used it to [sign into this application.](#)

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## ORCID Settings

[Edit My Profile](#)[ORCID Settings](#)

### Open Researcher and Contributor ID (ORCID)

Your ORCID (0000-0002-1550-6325) has been authenticated for this application.

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## Community Path to Adoption

- Hydra Application
    - Follow steps laid out at <https://github.com/projecthydra-labs/orcid> to
      - Integrate the ORCID gem into your application
      - Configuring your connection to ORCID
      - Customize code that maps to digital objects in Fedora if necessary
  - Other Ruby on Rails Applications
    - Same as above except a little development necessary to map to non-Hydra/Fedora digital objects
- \*Technically not dependent on Hydra or Fedora



# Phase 1: Fall 2014

## First Rollout

- ORCID support deployed to production in CurateND (<http://curate.nd.edu>), Notre Dame's Institutional Repository
- Allows repository users to
  - Create ORCID ids
  - Search and link to existing ORCID ids





### **Next Phase: 2015-16 Academic Year**

- Tighter integration between researcher profiles and ORCID
- Investigating services for metrics and impact
- Sponsored accounts for continued access to owned items in repository (after one leaves the University)
- Investigating opportunities for automated assignment to students





## Promotion and Roll Out Plan

University  
Leadership

Academic  
Leadership

Faculty, Students,  
Individual Departments

- University Librarian reach out to top level leadership:
  - Provost, Deans, Office of Research, Graduate School



## Promotion and Roll Out Plan

University  
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- University Librarian reach out to top level leadership:
  - Provost, Deans, Office of Research, Graduate School
- Introduce to academic leadership at College level:
  - Deans, Associate Deans, Department Chairs



## Promotion and Roll Out Plan

University  
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- University Librarian reach out to top level leadership:
  - Provost, Deans, Office of Research, Graduate School
- Introduce to academic leadership at College level:
  - Deans, Associate Deans, Department Chairs
- Broad Communication:
  - Individual Departments, Faculty, Grad Students



# Next Steps: 2015-16 Academic Year

## Develop Campus Partnerships

- Identify campus advocates and partners
- Begin outreach to partners including the Office of Research





# Next Steps: 2015-16 Academic Year

## Develop Campus Partnerships

- Beginning with University Librarian, top level discussions with University Leadership and key stakeholder groups:

*Provost, Office of Research, Graduate School, Deans*

- Highlight program benefits and partner institutions and their contribution
- Raise awareness of how it ties into university mission and the institutional repository
- Give context of how ORCID helps with research goals and university goals



### Next Steps: 2015-16 Academic Year

#### Roll Out Awareness: Next Level Stakeholders

- University Librarian introduce ORCID to Leadership at College, and Academic Department levels
  - Highlight program benefits, partner institutions and their contribution
  - Raise awareness of how it ties into university mission and the institutional repository
  - Give context of how ORCID helps with research goals for departments and individual faculty members and graduate students
- Follow up with Department Chairs, department-level presentations, lunch and learns, etc.



### **Next Steps: 2015-16 Academic Year**

#### **Roll Out Awareness: Faculty & Grad Students**

- Broad communication i.e., details of our grant related efforts in a press release and related news
- Targeted marketing tailored to each group of departments, faculty, students
- Library subject matter experts to cross-promote within ongoing support of academic departments
- Sponsored accounts



## Acknowledgements

- ORCID and the Sloan Foundation
- Jeremy Friesen (Lead Developer)
- Hydra Partner Contributors and Supporters
- Campus partners:
  - Office of Research
  - Provost's Office
  - College of Arts and Letters





## More Information

- ORCID gem
  - <https://github.com/projecthydra-labs/orcid>
- Project wiki
  - <https://wiki.duraspace.org/display/hydra/Hydra+ORCID+Plug-in>
- CurateND
  - <http://curate.nd.edu>
- Rick Johnson, [rick.johnson@nd.edu](mailto:rick.johnson@nd.edu)
- Jeremy Friesen, [jfriesen@nd.edu](mailto:jfriesen@nd.edu)



## Questions

