
Collaborating to Manage Research Data**Not Assigned****Publication Date**

15-12-2023

License

This work is made available under a Exclusive rights in copyrighted work license and should only be used in accordance with that license.

Citation for this work (American Psychological Association 7th edition)

Not Assigned, . (2014). *Collaborating to Manage Research Data* (Version 1). University of Notre Dame. <https://doi.org/10.7274/R0B85624>

This work was downloaded from CurateND, the University of Notre Dame's institutional repository.

For more information about this work, to report or an issue, or to preserve and share your original work, please contact the CurateND team for assistance at curate@nd.edu.

Collaborating to Manage Research Data

Zheng (John) Wang
Rick Johnson

Hesburgh Libraries
University of Notre Dame

Notre Dame Research Profile

- Research & Sponsored Programs Revenue

- FY09: \$120.9 million
- FY14: \$189.7 million
- \$68.8 million (56.9%) increase
- 9.4% annual growth rate

Data Growth Potential

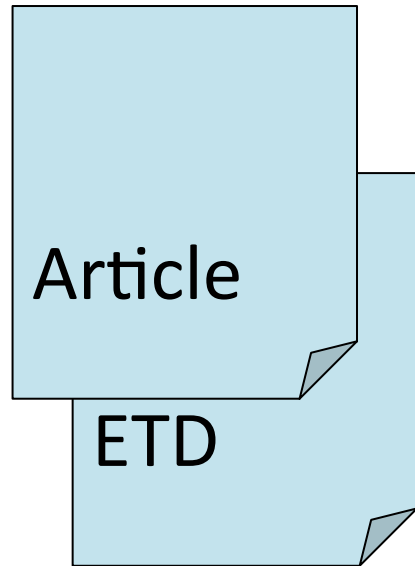
- Investment in Research

- FY09: \$88.9 million
- FY14: \$161.9 million
- \$73 million increase (82.1%)
- 12.7% annual growth rate
- Advancing Our Vision
 - \$13 million recurring investment
 - 10 Disciplines (i.e. computational data, adult stem cell, nuclear physics)
 - 80 new faculty

Nature of Research Data

- Often requires enormous storage (volume, accumulative)
- Often exists in diverse formats
- Increasingly owned by faculty across institutions
- Requires intensive resources and new expertise

Related Materials: Any Format



Statistical Data

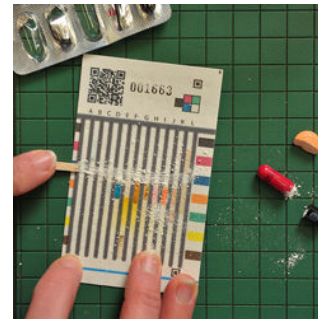
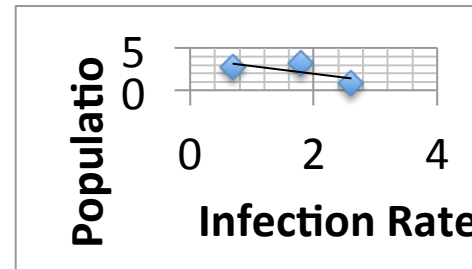


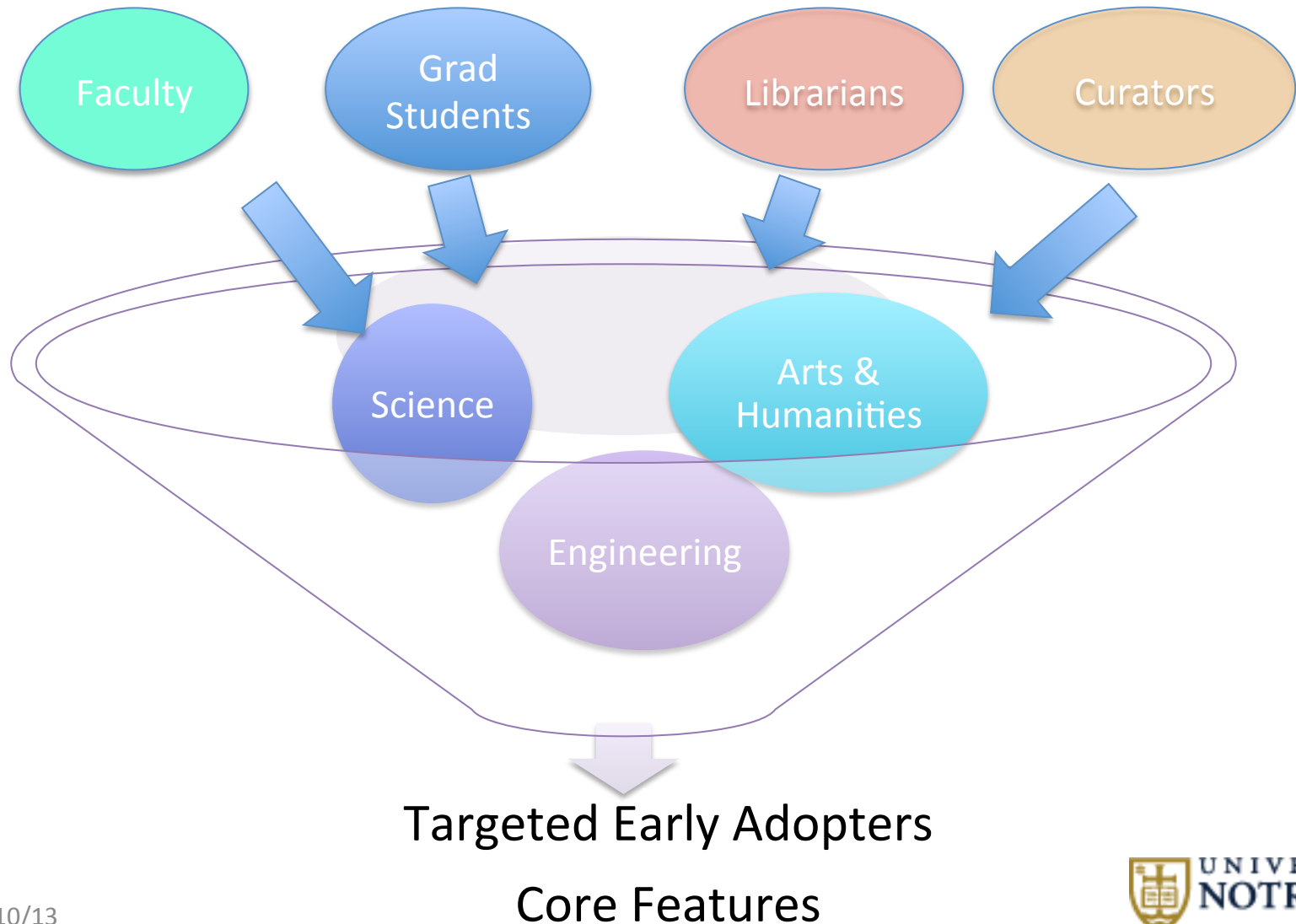
Image Data

Library Context

- Institutional Digital Repository

- Part of Hydra community
- Vertical Successes
- High demand due to the Open Data Mandate and Public Access Policies
- Storage allocation internal to library needs
- Digital Initiative Program staffing level

User-Centric Personas



Design Strategy

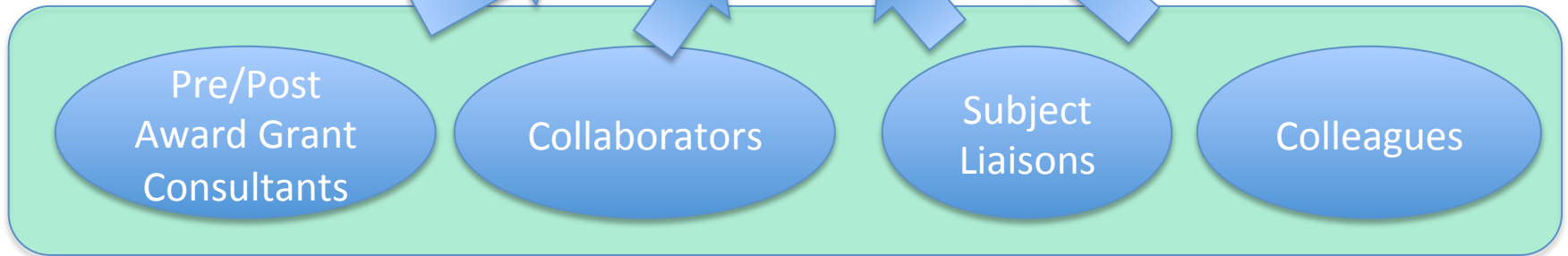
- Design for everyone, but optimize for intermediate (Alan cooper)
 - Critical needs
 - What are the core? Other advanced services?

Partnerships are Key

- Increasing complexity demands support of experts
 - Funding Agency Requirements
 - Copyright and Intellectual Property
 - Metadata and Data Structuring
 - Data sharing and Preservation

How Do We Connect with Researchers?

Top Down



Grass Roots

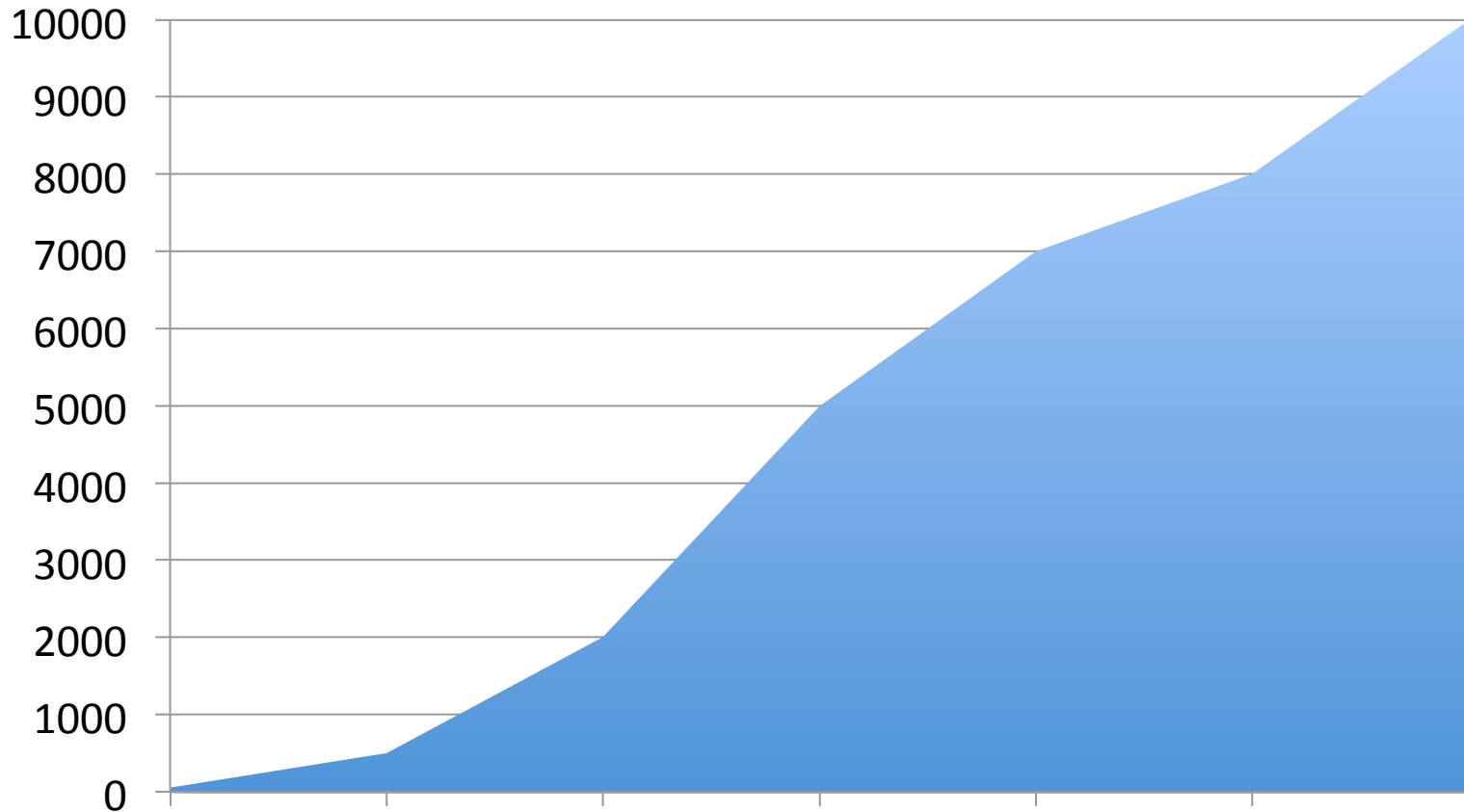


Priorities First Phase

- Wide format support, with mixed collections
- Focus on Preservation and Curation
- Get Users Engaged Early
- Release Early; Release Often

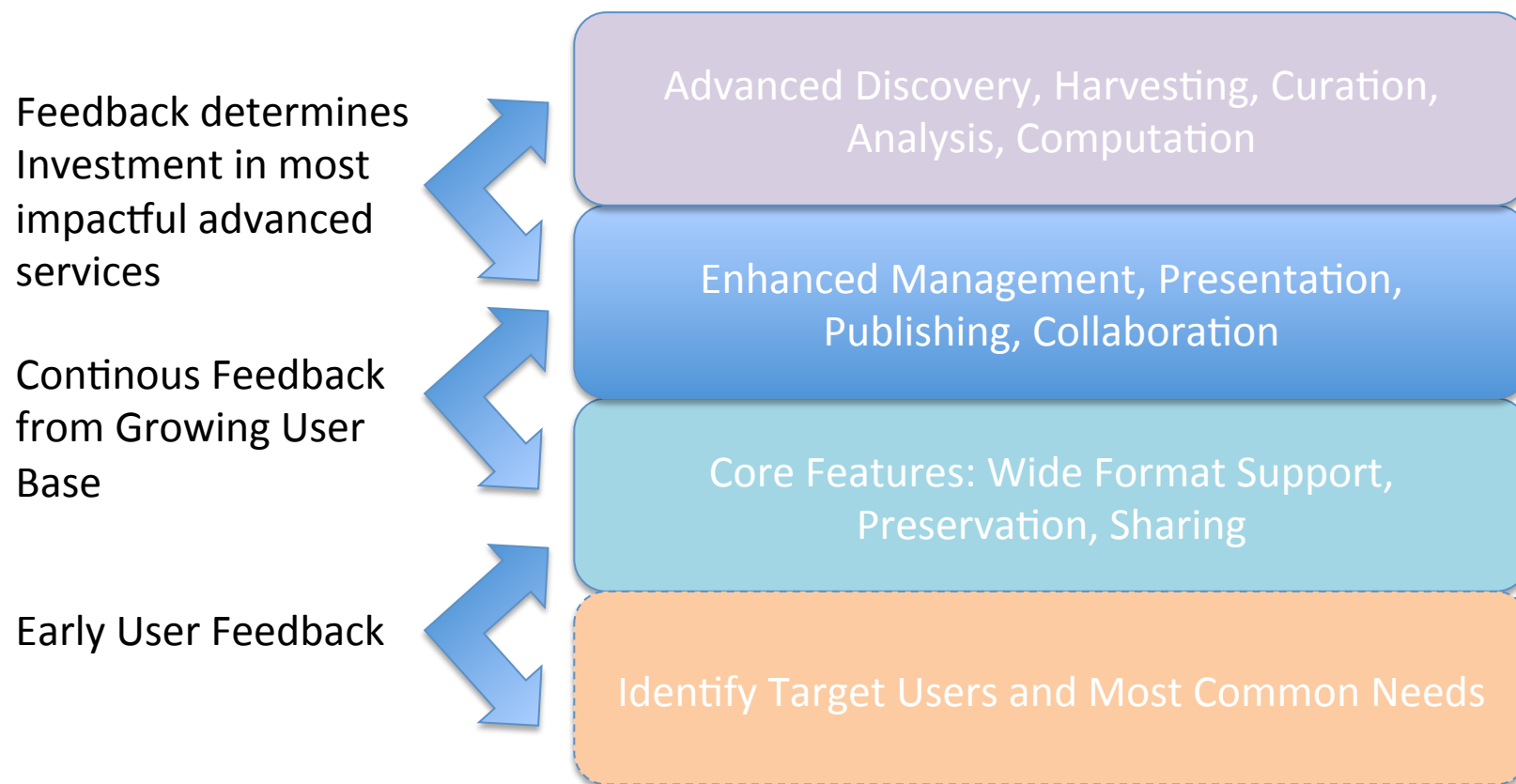
Grow Together

User Base

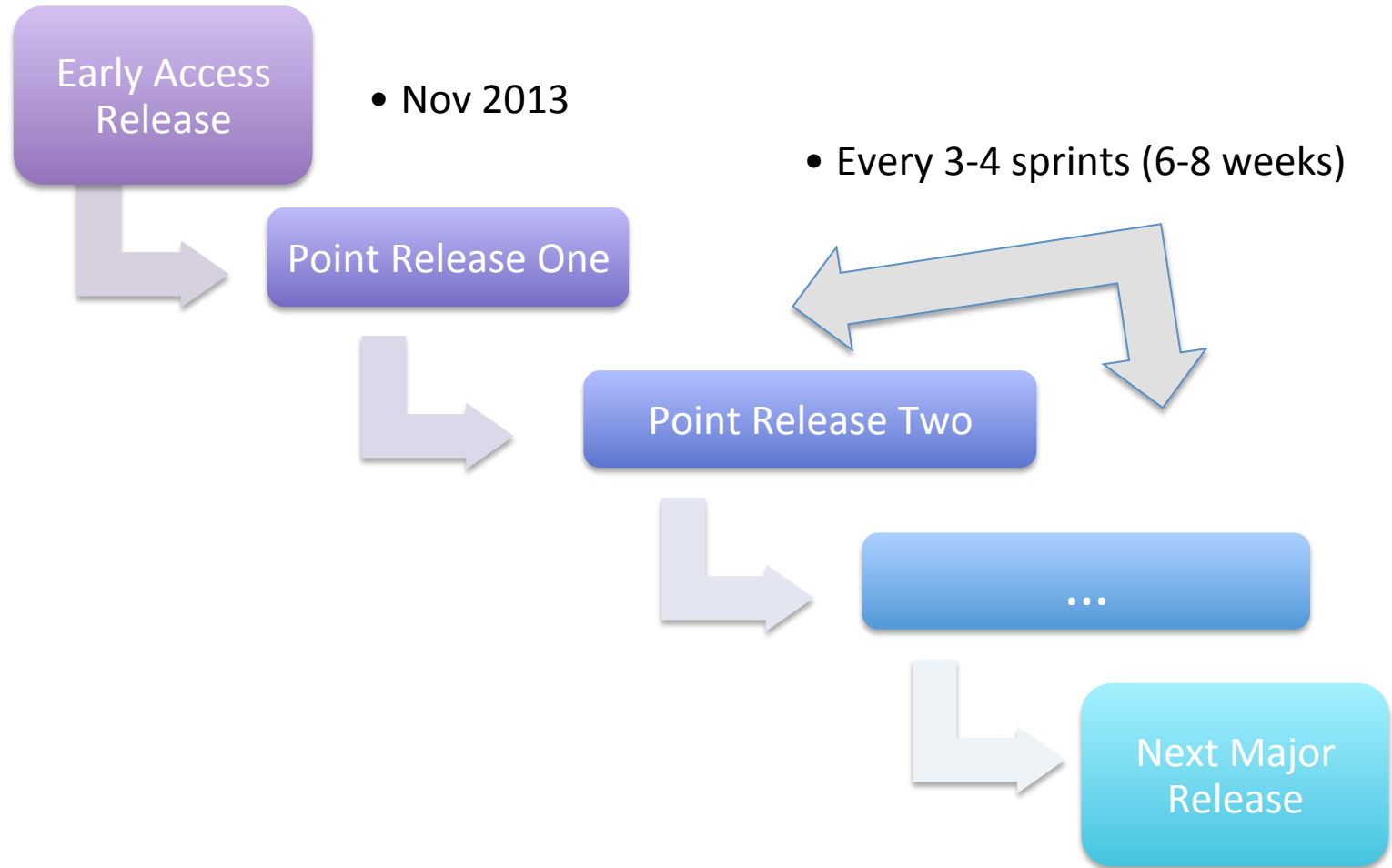


Features

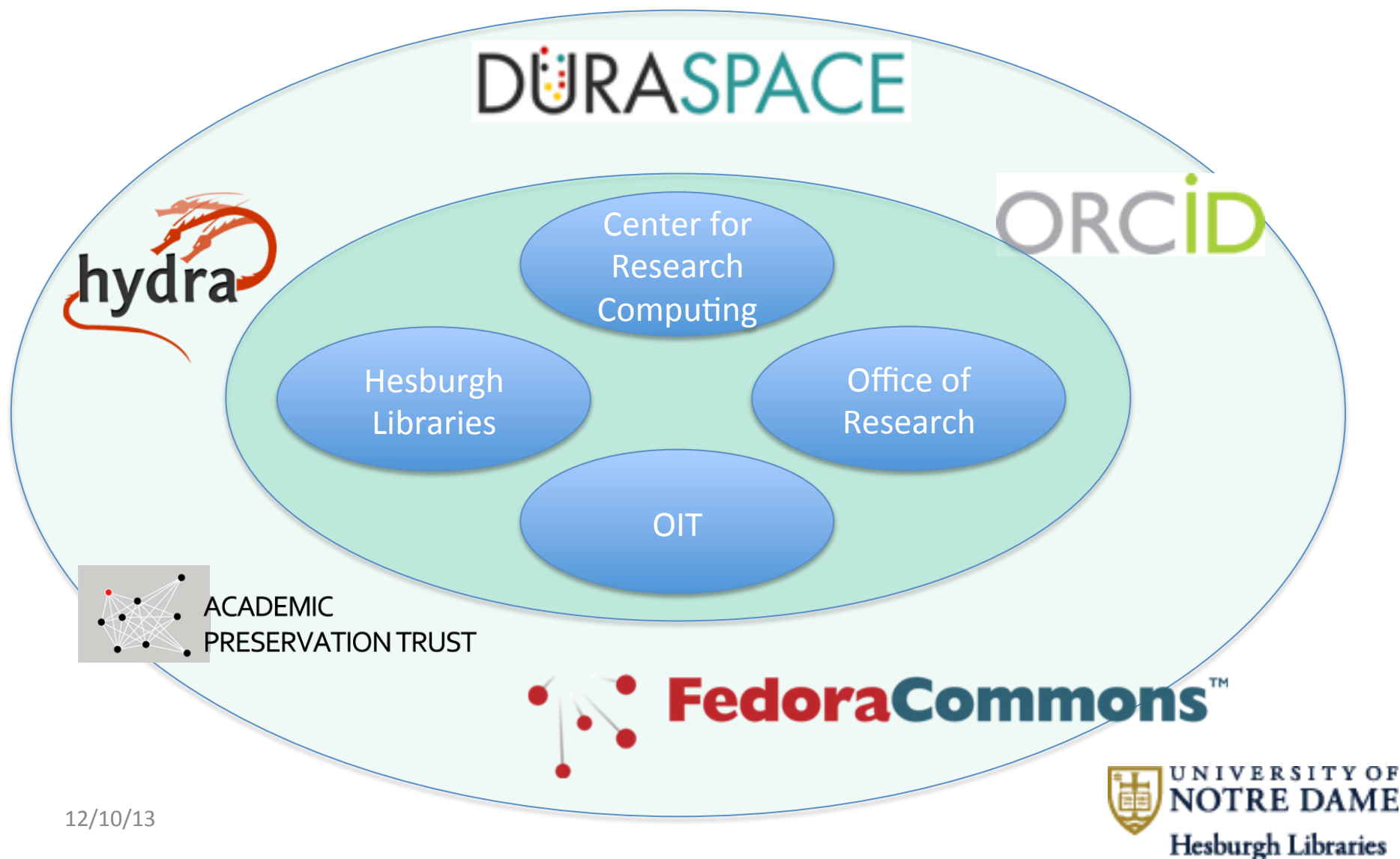
Layered Continuous Improvement



Release Early; Release Often



Sustain through Community



Sustain through Community

Shared IR Project

- Complete Multi-Institutional Collaboration from top to bottom within the Hydra Community
 - Shared Roadmapping and Governance
 - Community and Local Roles
 - Rotate Resources

DATA CURATION EXPERTS



INDIANA UNIVERSITY



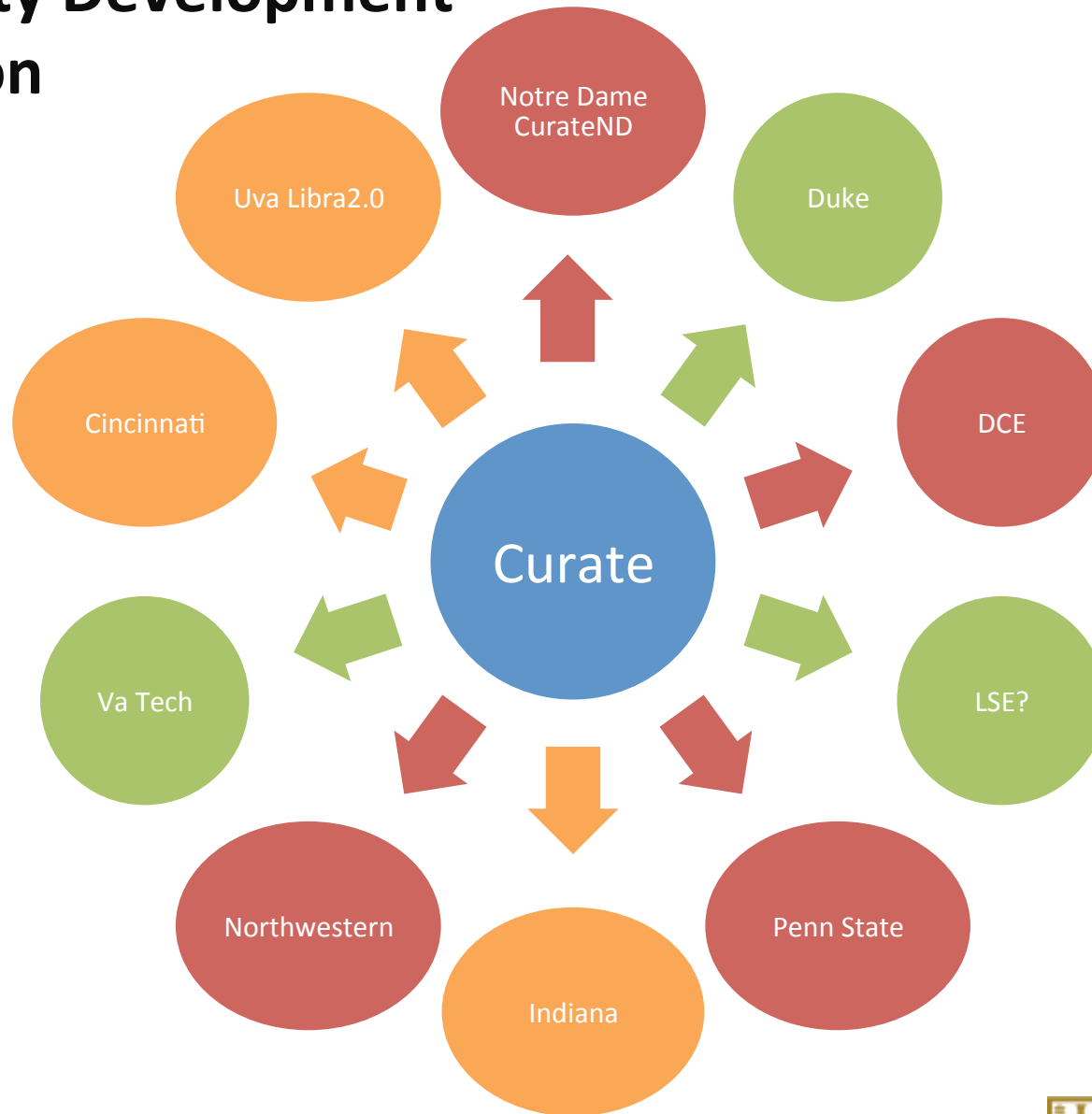
NORTHWESTERN
UNIVERSITY

PENNSTATE

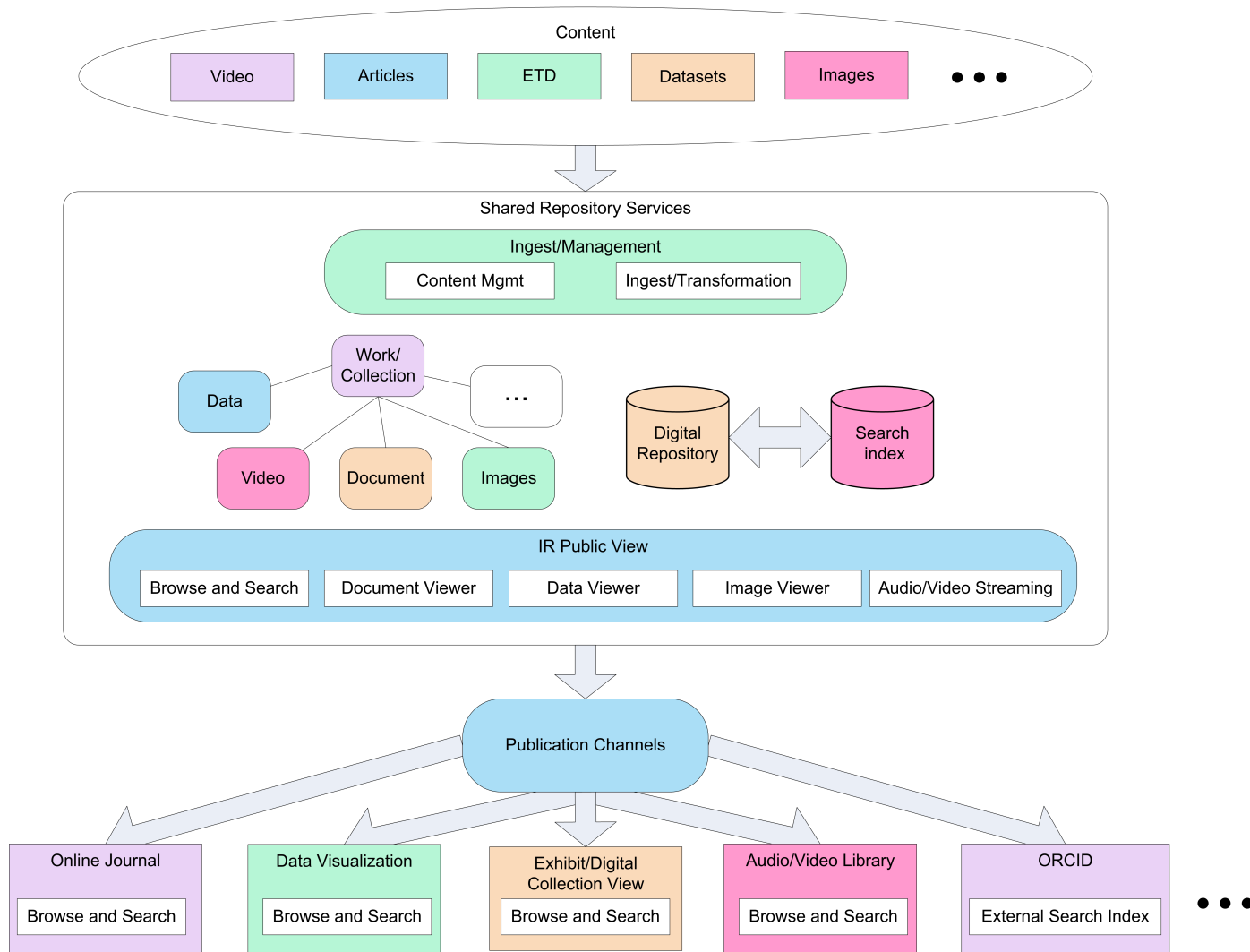


...

Community Development & Adoption



Mixed Architecture



Future Priorities

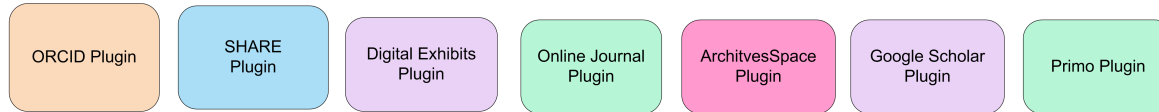
- By April
 - Improved Organization and Managed Collection Support
 - Submission, Review, and Publish Workflows
 - Integration with ORCiD
 - Bulk Ingest Support

Future Priorities

- April and beyond
 - Enhanced Publishing Layer to Digital Exhibits, Online Journals
 - Tuned and Optimized for large datasets
 - Integration with SHARE
 - Pluggable support for solution bundles

Shared IR Bundles/Plugins

Publish



Browse

Image Bundle

Image Collection Browser

Data Bundle

Data Browser

Audio/Video Bundle

Audio/Video Collection Browser

ETD Bundle

Document Browser

Workflow

Image Workflow

Data Workflow

Audio/Video Workflow

ETD Workflow

Article Workflow

Viewers

Image Viewer

Data Visualization

Audio Player

Video Player

Document Viewer

Works

Image

Dataset

Audio

Video

ETD

Article

Core

Curate

Bulk Uploader/BrowseEverywhere

Local Discovery

Submission Workflow

Self Deposit

Web Based Description, Preservation

Quick Demo

UNIVERSITY of NOTRE DAME

HESBURGH LIBRARIES

CurateND

Go

What is CurateND?

CurateND is a secure repository service enabling the University of Notre Dame community to share its research and scholarly work with a worldwide audience. Faculty, staff, and students can use CurateND to collect their work in one location and create a durable and citeable record of their papers, presentations, publications, data sets, or other scholarly creations.

[Get Started](#)

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

Copyright © 2013 [University of Notre Dame](#)

Powered by [Sufia](#), a [Hydra](#) project.

Build: 2013-10-28 12:19:17

FAQ

- Zheng (John) Wang, zheng.wang@nd.edu
- Rick Johnson, rick.johnson@nd.edu
- Hydra Shared IR Project Wiki:
 - <https://wiki.duraspace.org/display/hydra/Shared+IR+project>
- <http://curate.nd.edu>