



State of the HydraSphere

Boston, October 3-6, 2016

#HydraConnect

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DuraSpace Affiliate



Hydra Fundraising

\$67K Raised
to-date

Exceeded \$50K
Goal!

Thank You



Hydra Finances - Four Spending Areas

1. Project administration
2. Community communications / marketing
3. Technical coordination
4. Building a financial reserve



Hydra Trademark

- Name
- Logo
- North America
- Europe Union



TM



Hydra Website Redesign - *Coming November 2016!*



[about](#) [applications & demos](#) [the hydra community](#) [design](#) [technical](#) [news & events](#) [Q](#)

A POWERFUL TOOL FOR REPOSITORY SOLUTIONS.

Hydra is a grass-roots, open source community creating best in class digital asset management solutions for Libraries, Archives and Museums. Hydra offers flexible and rich user interfaces tailored to distinct content types on top of a robust back end - giving adopters the best of both worlds.

[what is hydra?](#)



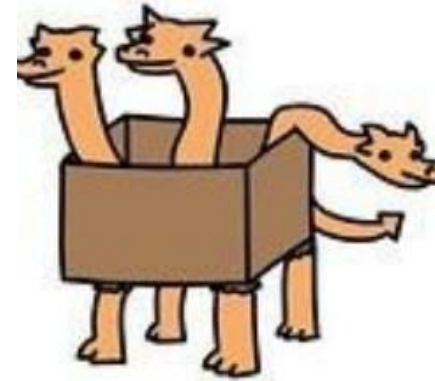
WHY USE HYDRA?

HOW IT WORKS



Grants and Large Projects

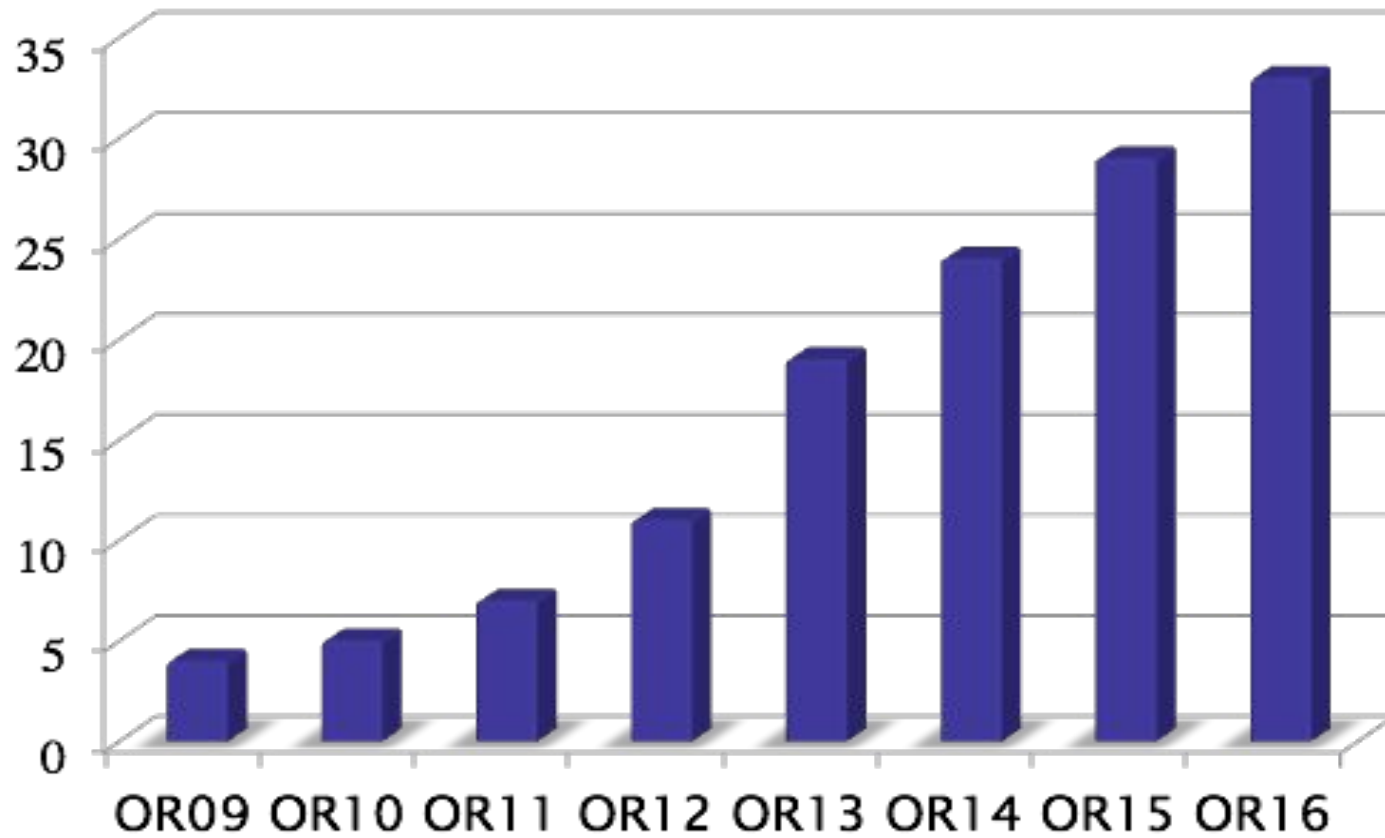
avalon
MEDIA SYSTEM



By the Numbers....

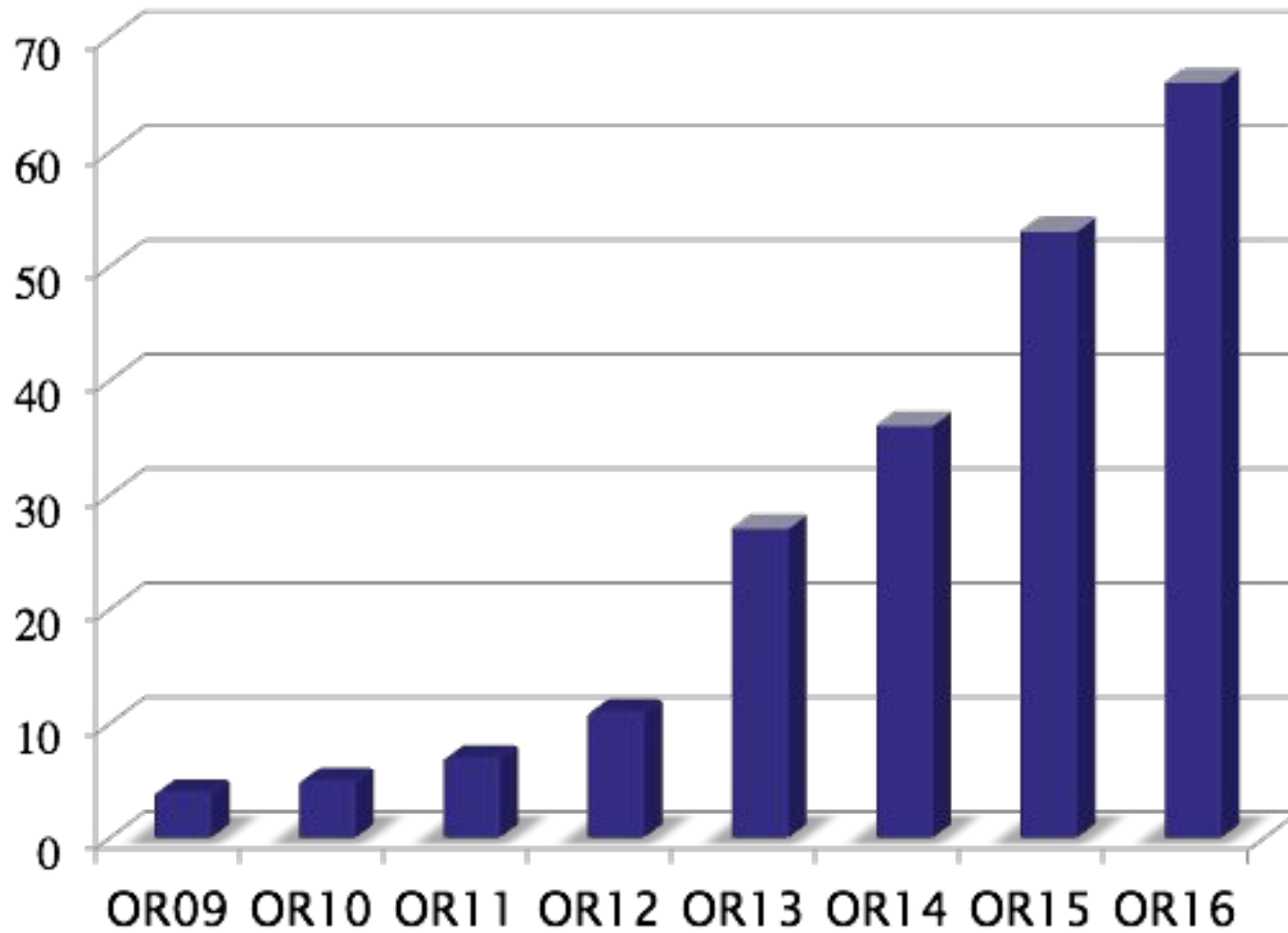


Hydra Partners



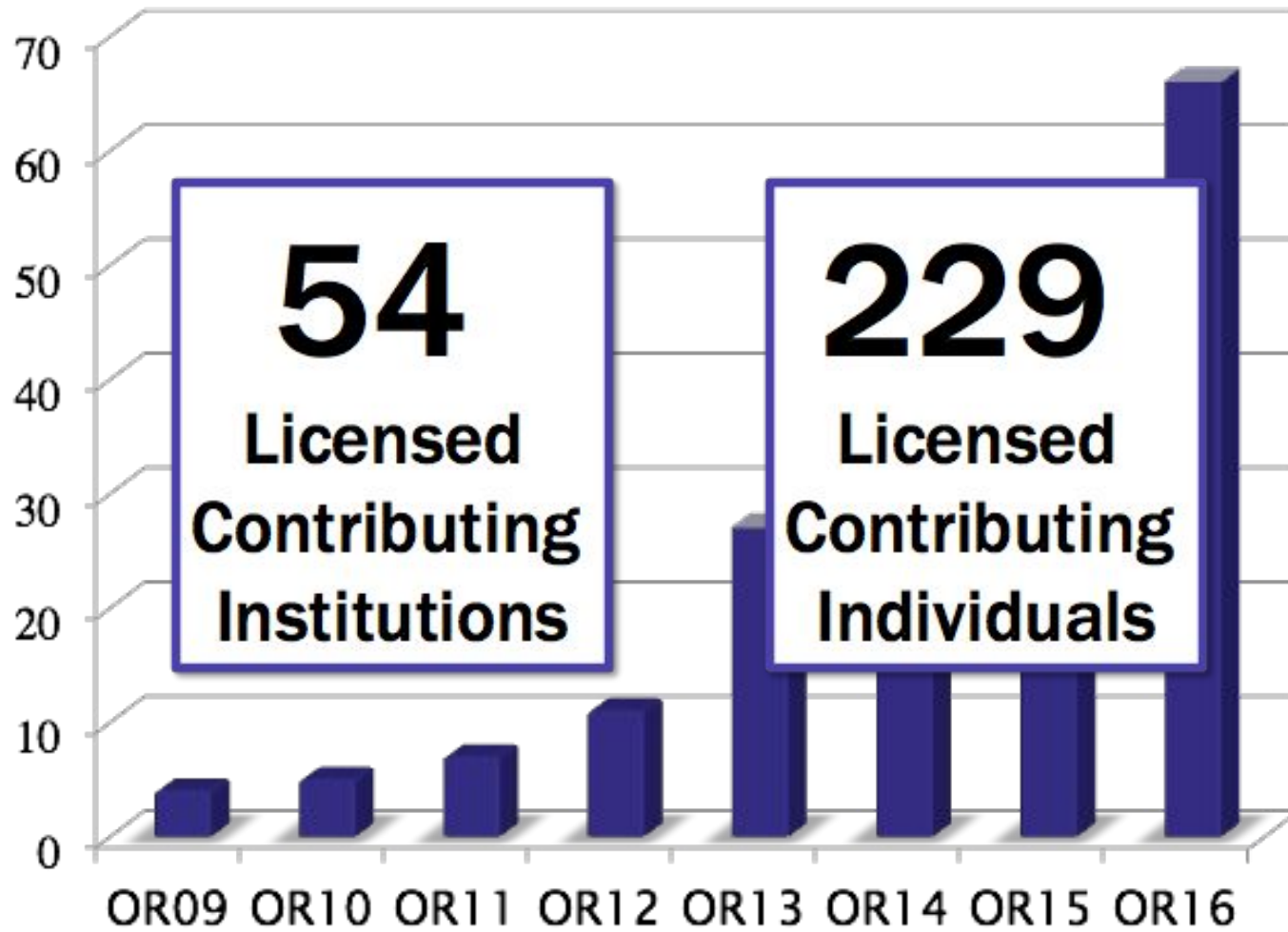
OR = Open Repositories Conference

Hydra Partners *and Known Users*



OR = Open Repositories Conference

Hydra Partners *and Known Users*



OR = Open Repositories Conference

A Worldwide Presence



Trending

In a Nutshell, Project Hydra...

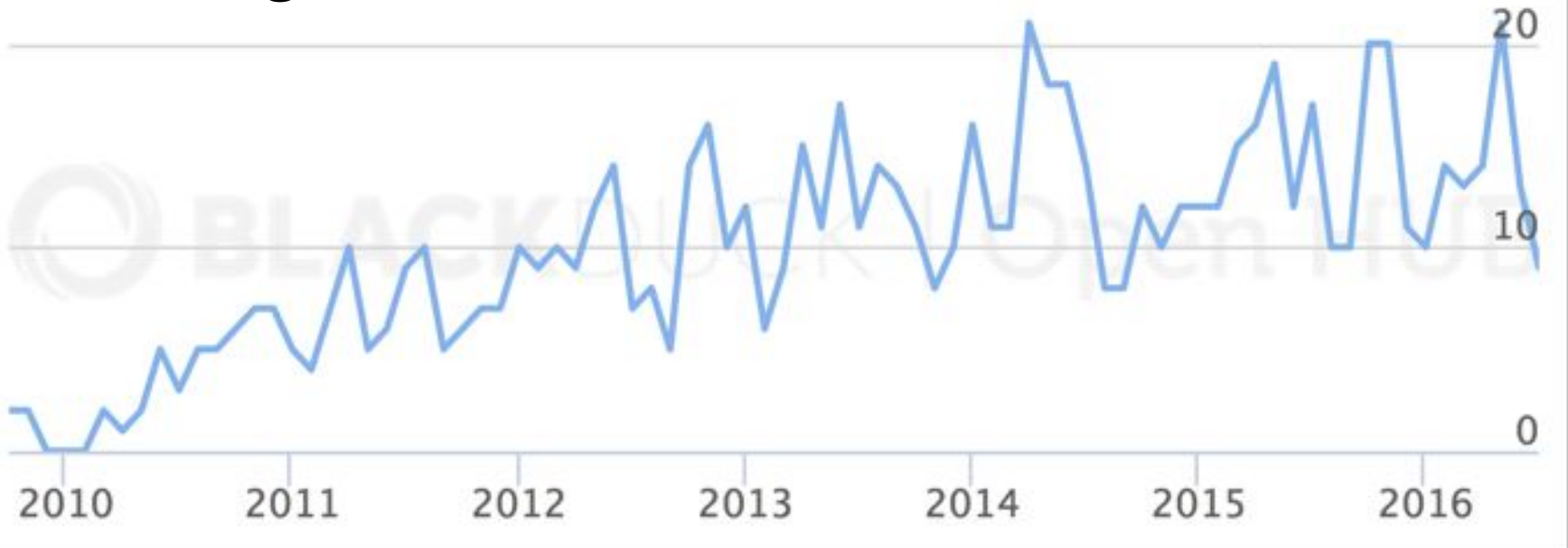
... has had **14,210 commits** made by **129 contributors** representing **66,641 lines of code**

... has **a well established, mature codebase** maintained by **a very large development team** with **increasing Y-O-Y commits**

... took an estimated **17 years of effort** (COCOMO model) starting with its **first commit in October, 2009** ending with its **most recent commit 5 days ago**



Trending



12 Month Summary

Aug 3 2015 — Aug 3 2016

2689 Commits

Up + 945 (54%) from previous 12 months

62 Contributors

Up + 7 (12%) from previous 12 months



122

**Hydra-
partners**

705

**Hydra-
tech**

509

**Hydra-
community**



@HydraSphere

501 Followers



Trends & Challenges



Maturity

Age ~ Code ~ Numbers ~ Name Recognition ~ Money



Community Sprints

Sufia 7.0 ~ HyBox Spring & Fall '16 ~ Mediated Deposit ~
Admin Dashboard ~ File Sets ~ Fedora Import / Export



Architecture

Sufia 7.0 ~ Curation Concerns 1.0



Code Contribs

More features from edges to core

More contributors to the core gems

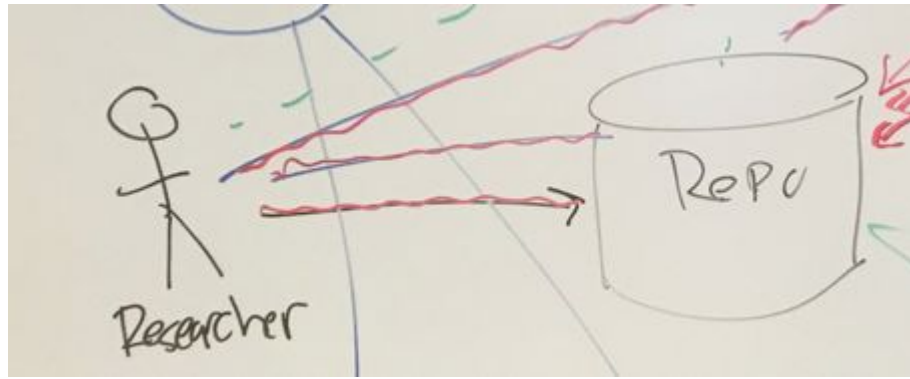


Code Contribs

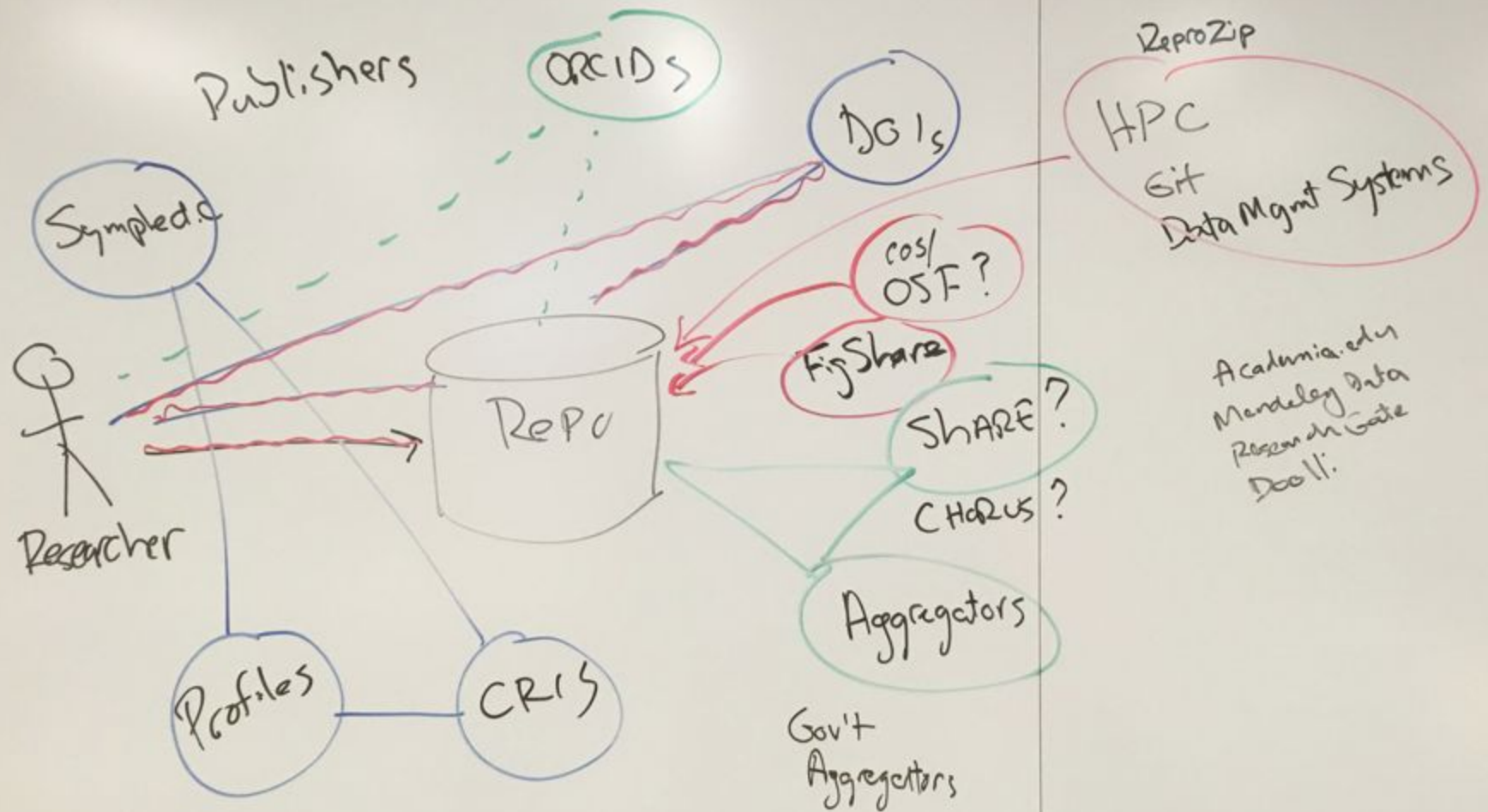
More features from edges to core
More contributors to the core gems

More & better on-ramps for
developers to contribute





Changing Repository Landscape



Changing Repository Landscape



APIs



CRUD for objects (data & metadata) & collections

- Create object (indiv./bulk)
- Create collection (indiv./bulk)
- Update metadata (indiv./bulk)
- Get collection list
- Get metadata
- Import / synchronize metadata from external system (e.g. Alma, ArchivesSpace)
- Export data to preservation system

Services

- IIF | <http://iiif.io/technical-details/>
- ORCID | <https://orcid.org/organizations/integrators/API>
- OSF | <https://test-api.osf.io/v2/>
- Figshare | <https://docs.figshare.com/api/>
- Symplectic |
- Altmetric
- SHARE
- VIVO
- DPLA
- CRIS / Research Administration Systems
- Grants.gov
- Sherpa/RoMEO
- Alma / external metadata

Use Cases

- Get a list of metadata to feed Drupal page of citations
- Get a thumbnail to feed a Drupal page
- Get an object to feed a Drupal page (embed?)
- Export a bag to preservation system





Vibrant Community Hub





Vibrant Community Hub

PCDM; Metadata Interest Group; Data Modeling
Fedora core development; GeoSpatial Dev; IIF
DevOps; Service Management; et al.!



What Does It Mean to be a Partner?

Joint ownership of the project;
contribute to the whole;
leadership at all levels

Hydra Partners...

...are individuals, institutions, corporations or other groups that have committed to contributing to the Hydra community; they not only use the Hydra technical framework, but also add to it in at least one of many ways: code, analysis, design, support, funding, or other resources.

Hydra Partners collectively advance the project and the community for the benefit of all participants.

Trends & Challenges

- Maturity
- Community Sprints
- Architecture
- Code Contribution
- Changing Repository Landscape
- APIs
- Vibrant Community Hub
- Partnership





<http://projecthydra.org>