Worldwide Hydra Connect 3
September 21 – 24, 2015
Minneapolis

#hydraConnect

State of the HydraSphere

September, 2015

Tom Cramer
@tcramer

Hydra Goals

1. Build a framework for repository-powered applications, with
   - multiple, tailored UIs, and a
   - robust repository back end

   ➢ *One body, many heads*

2. Build a set of solution bundles
3. Build a community

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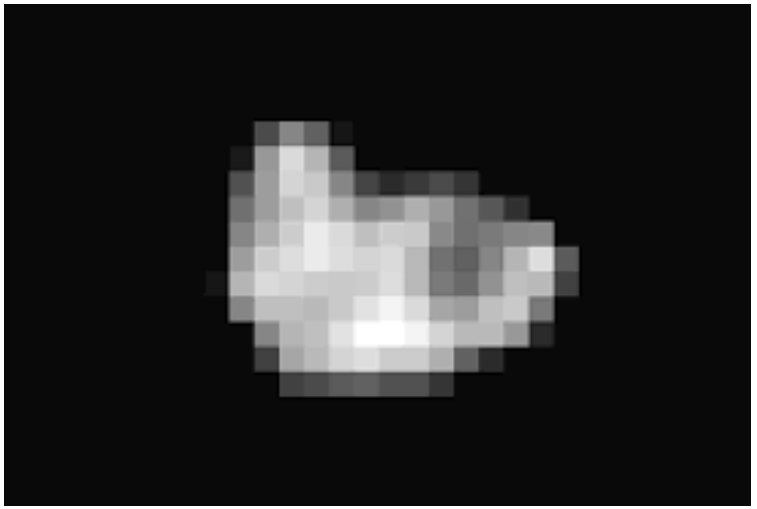

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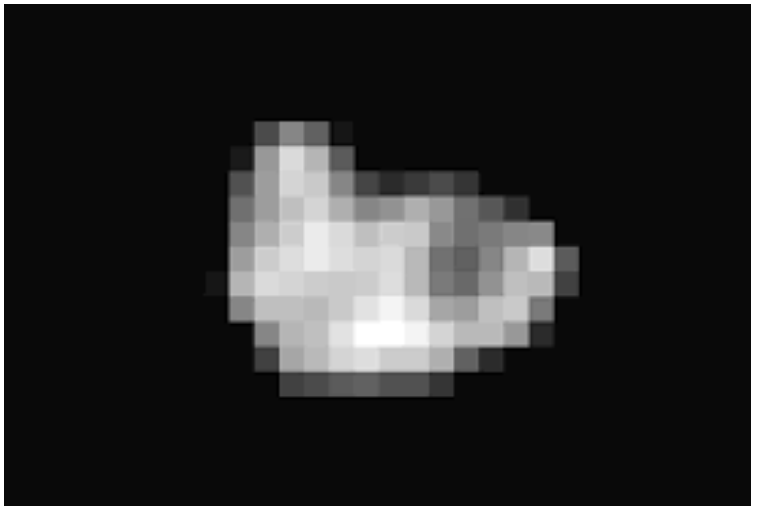

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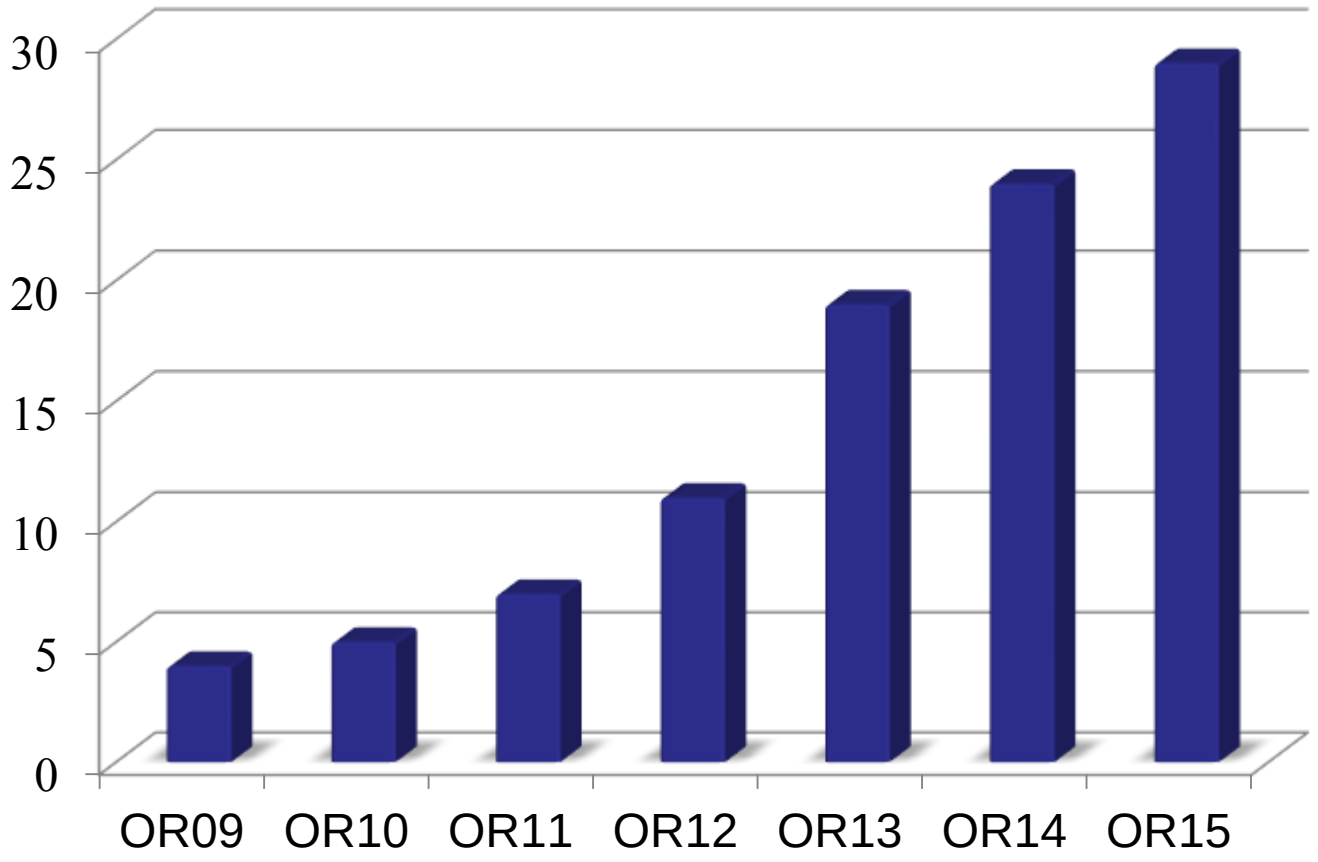
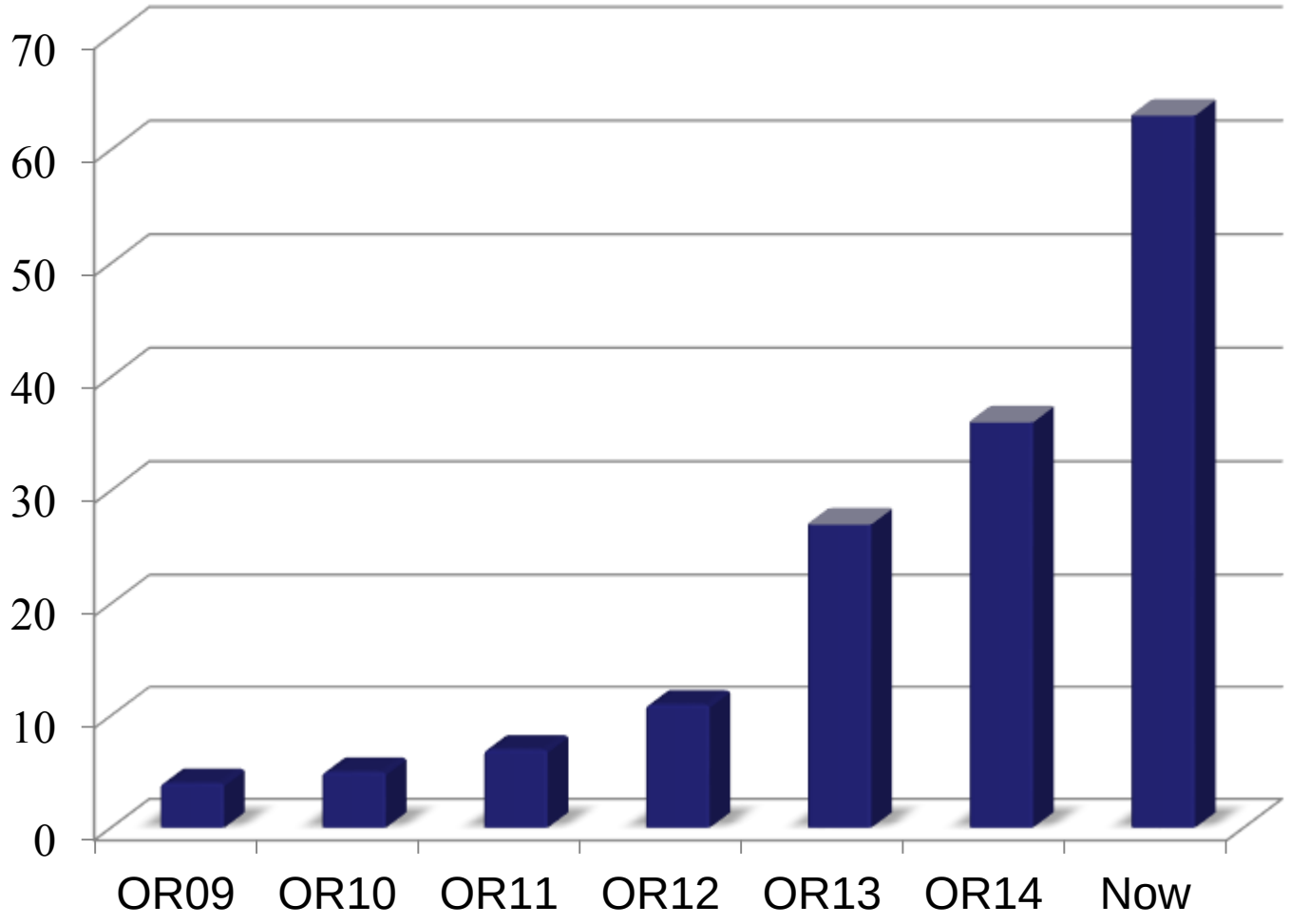
By the Numbers....

Hydra Partners



OR = Open Repositories Conference

Hydra Partners *and Known Users*



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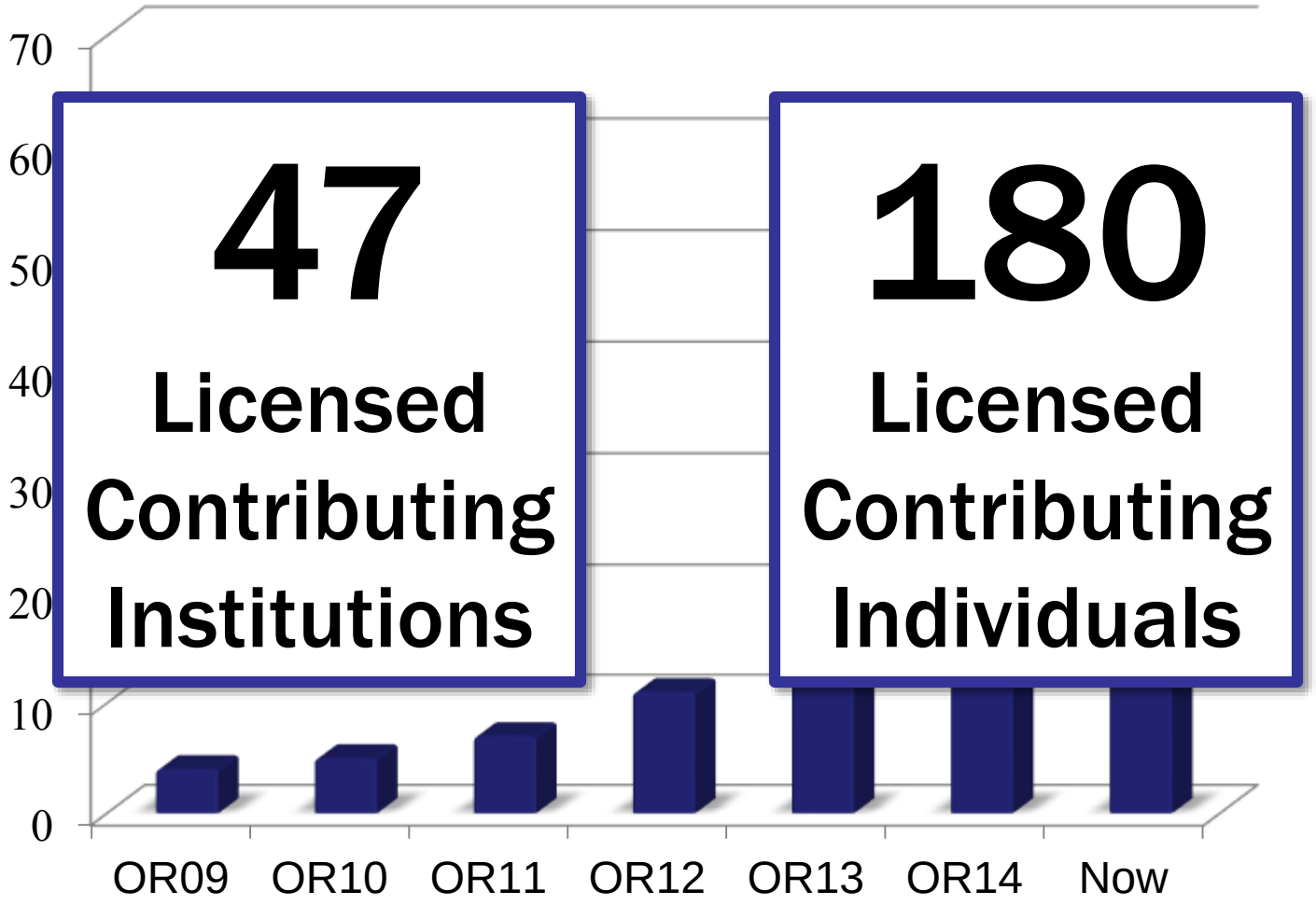

OR = Open Repositories Conference

A Worldwide Presence

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Trending

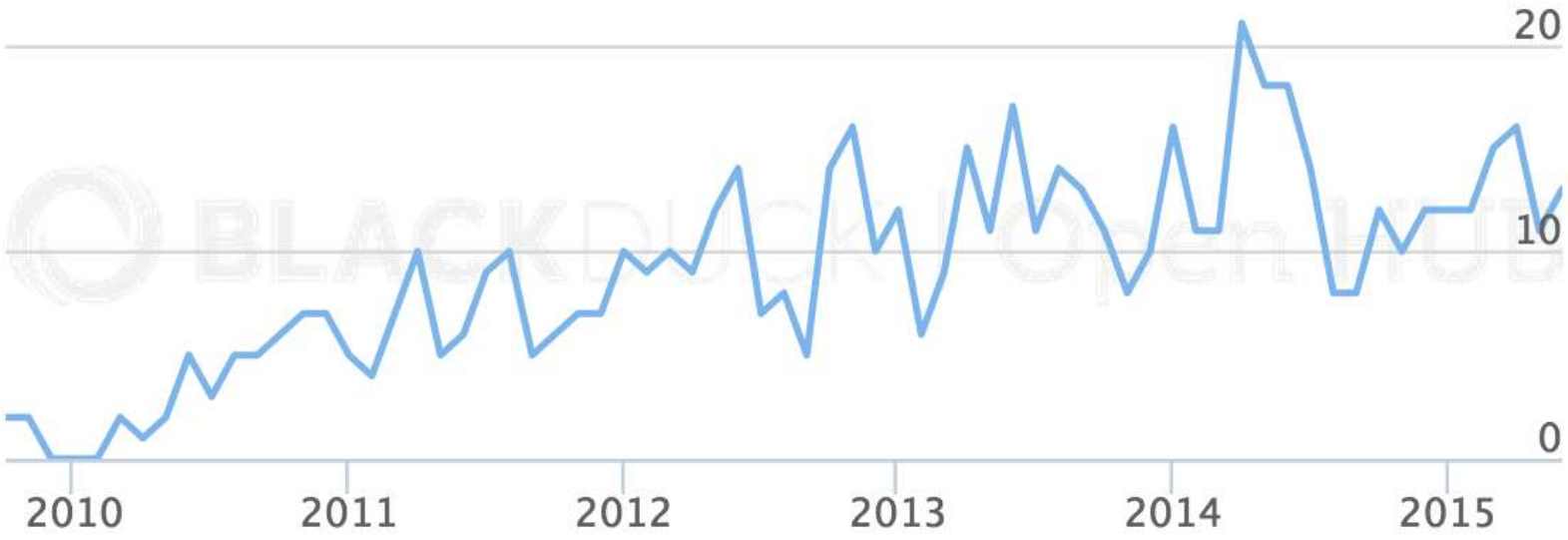
In a Nutshell, Project Hydra...

... has had 11,431 commits made by 96 contributors
representing 71,560 lines of code

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

... took an estimated 18 years of effort (COCOMO model)
starting with its first commit in October, 2009
ending with its most recent commit about 2 months ago

Trending



Contributors per Month

12 Month Summary

Jul 29 2014 — Jul 29 2015

49 Contributors

Up + 9 (22%) from previous 12 months

97	572	365
Hydra-partners	Hydra-tech	Hydra-community

@HydraSphere
290 Followers

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Hydra Click-Bait *aka*

10 Crazy, Repository, Celebrity Plastic Surgery Disasters!
(You won't believe #4!)

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10

avalon

MEDIA SYSTEM

9

Sufia

In a Nutshell, sufia...

... has had 3,381 commits made by 47 contributors
representing 33,702 lines of code

... took an estimated 8 years of effort (COCOMO model)
starting with its first commit in November, 2011
ending with its most recent commit about 2 months ago

- **May 2015: 24 contributors from 12 institutions, one 2 week sprint**
- Summer: 12 people for a sustained 9 week sprint
- Sufia now default starting point for adoption – more than 38 implementations in prod or dev in HydraSphere

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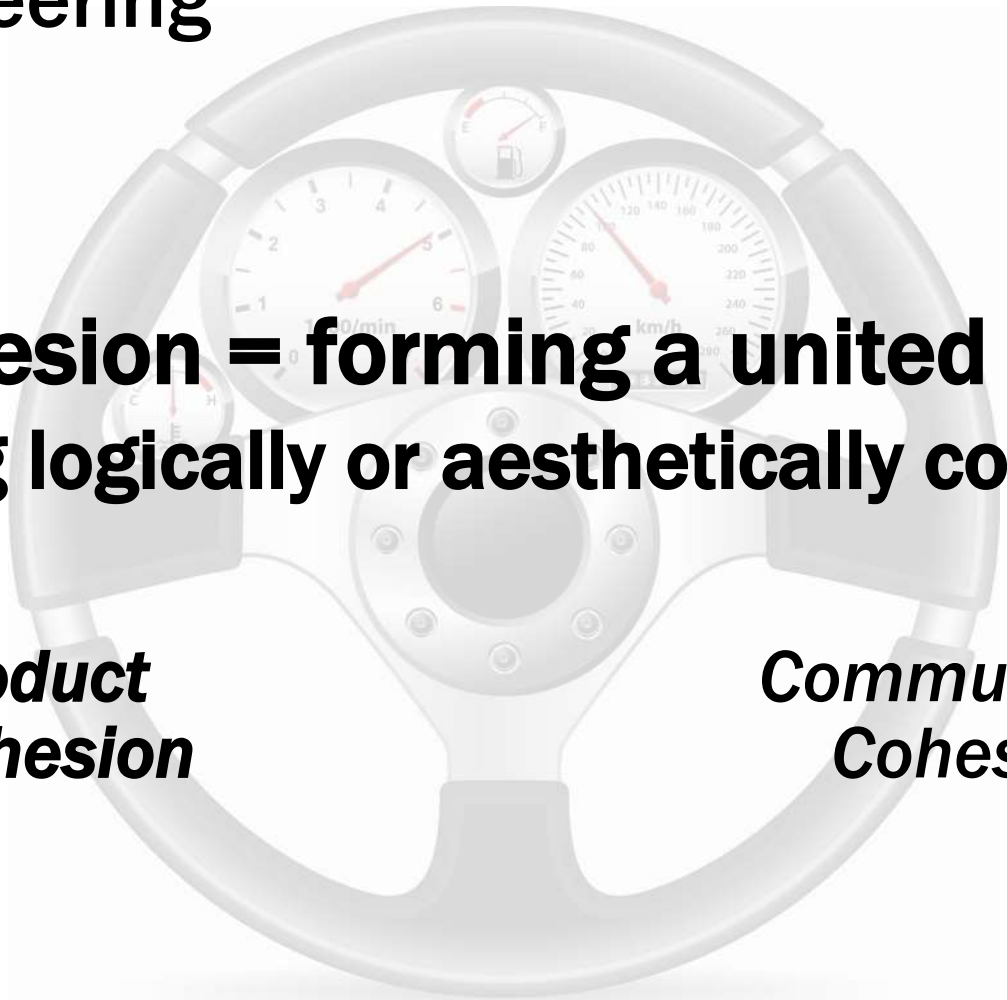
Power Steering

March 2015

Power Steering

March 2015



Cohesion = forming a united whole,
being logically or aesthetically consistent

Product Cohesion

Community Cohesion

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Memorandum of Understanding

between DuraSpace and the Hydra Project

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Interest & Working Groups

- Hydra Archivists Interest Group (HAWG)
- Hydra Digital Preservation Interest Group
- Hydra Geospatial Interest Group
- Hydra GIS Data Modeling Working Group
- Hydra Marketing Interest Group
- Hydra Metadata Working Group
- Hydra Metrics Interest Group
- Hydra Page Turner Interest Group
- Hydra Service Management Interest Group
- Hydra User Experience Interest Group
- Hydra Web Presence Working Group

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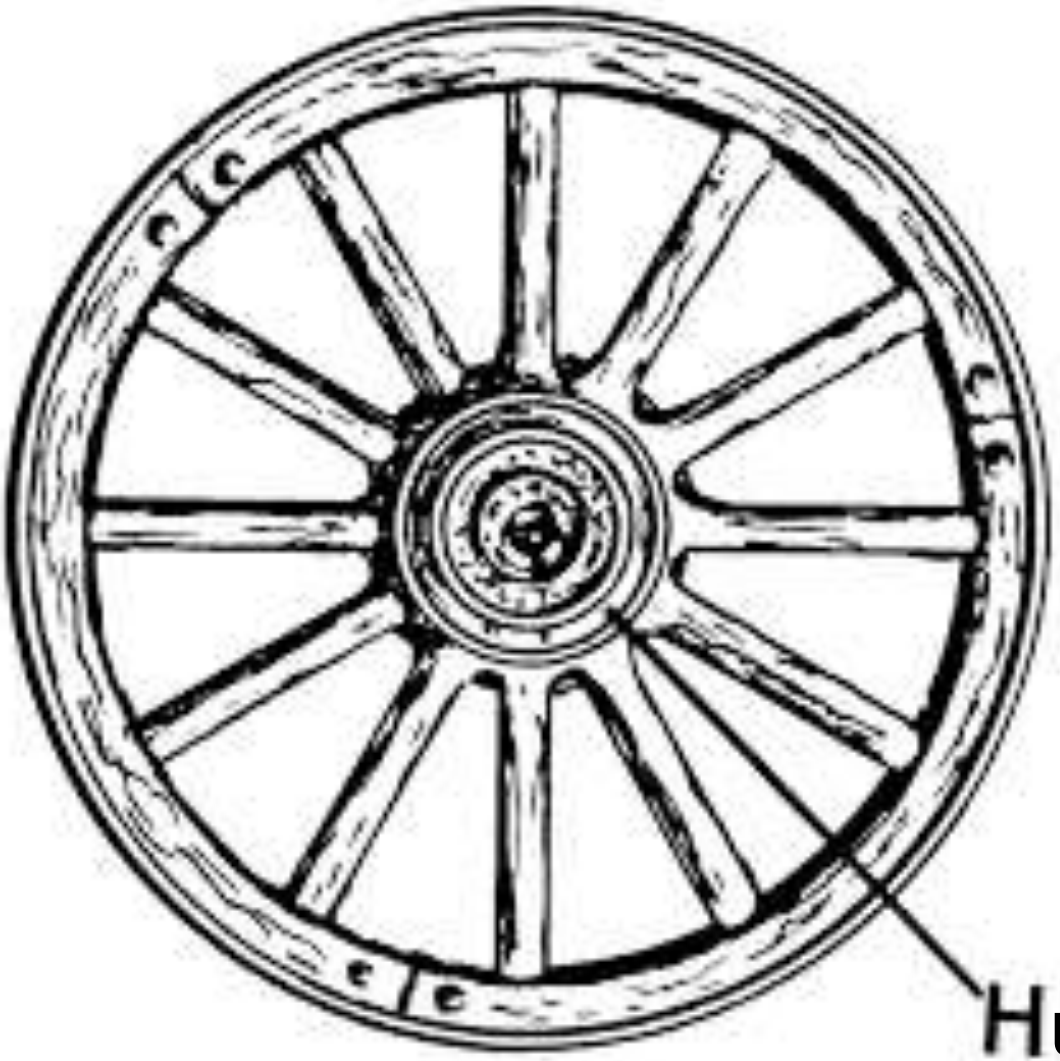
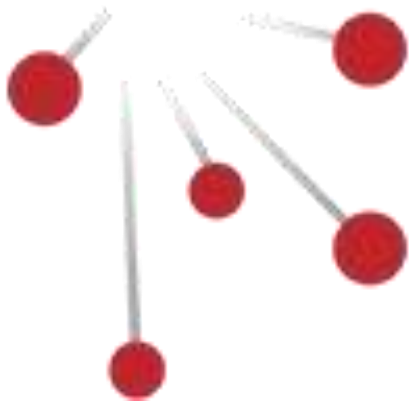


- Technology
- Community

4



Fedora™ (4)

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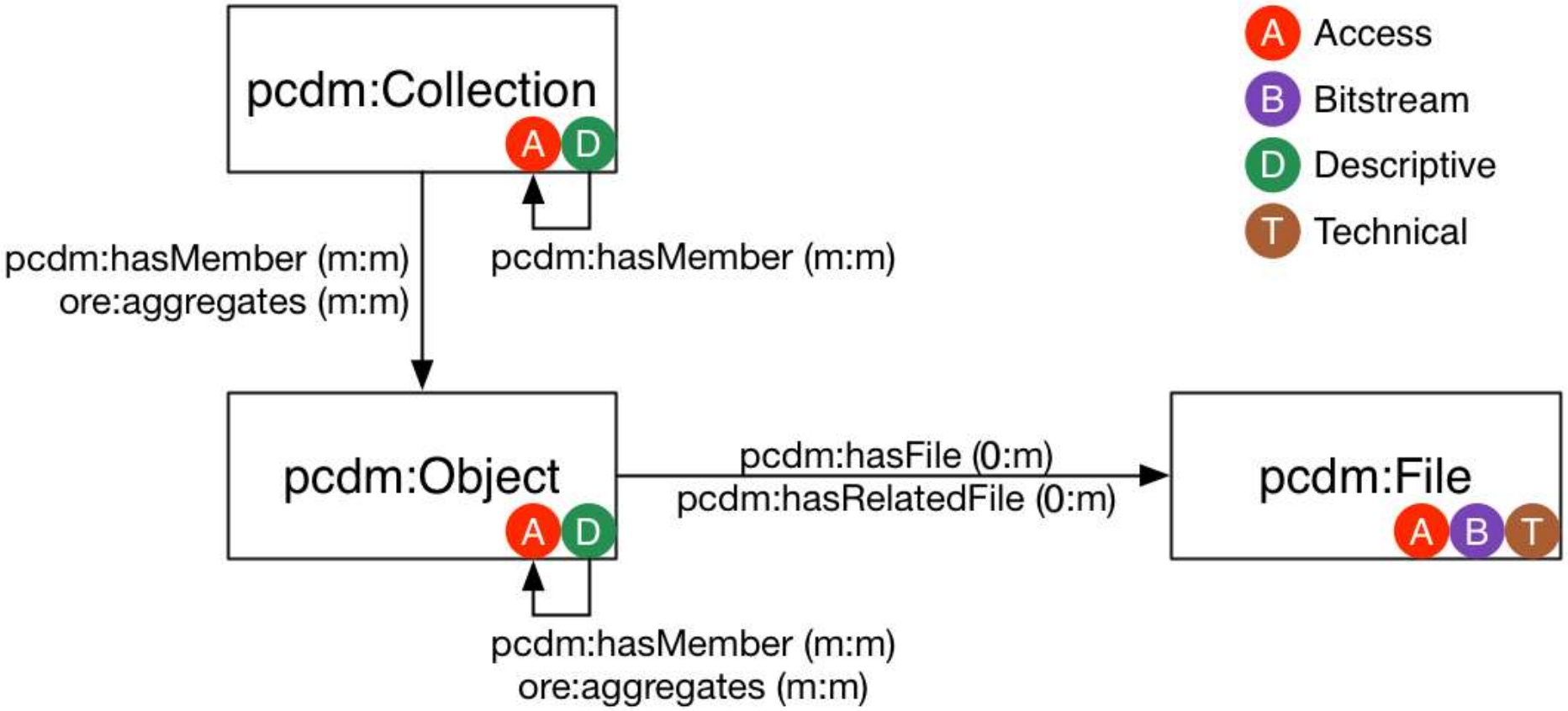
PCDM


pcdm:Collection
A
D
pcdm:hasMember (m:m)
ore:aggregates (m:m)
pcdm:hasMember (m:m)
pcdm:Object
A
D
pcdm:hasMember (m:m)
ore:aggregates (m:m)
pcdm:hasFile (0:m)
pcdm:hasRelatedFile (0:m)
pcdm:File
A
B
T
A Access
B Bitstream
D Descriptive
T Technical

2

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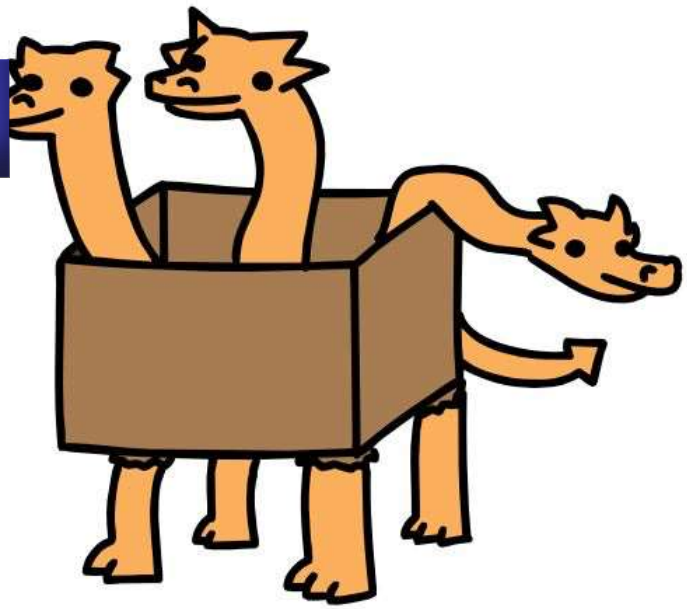
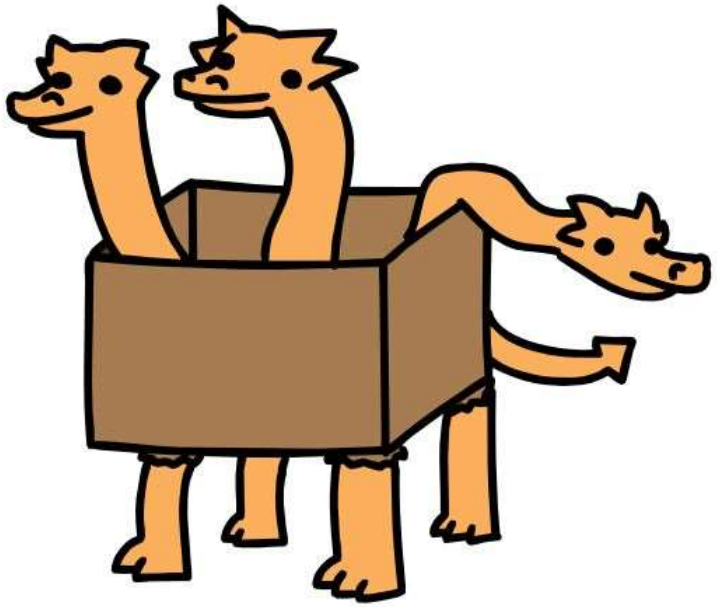


Hydra-in-a-Box

- $2M grant from IMLS, US Institute for Museum & Library Services
  - 2.5 years: May 2015 – Nov 2017
- Goals
  - Turnkey solution for institutions large and small
  - Metadata enrichment
  - Hosted service



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2nd Worldwide Hydra Connect @ Cleveland, OH, September 2014

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This is not a conference

...it's a Connect.

What is Hydra Connect?

Hydra Connect is a chance for Hydra Project participants to gather in one place at one time, with an emphasis on synchronizing efforts, technical development, plans, and community links.

If you want to go far, go together.

http://projecthydra.org