## The Making of Hydra

Common Solutions for Common Problems



### Common Problems

...create the need for collaboration

### Problem # 1

There was no single software product that provided solutions for common needs

....finding sustainable solutions requires a common repository infrastructure

### Common use case needs

#### Services Sought

Electronic theses and dissertations

Open access articles

Data curation applications(s)

General purpose institutional repository

Manuscript and archival collection delivery

Library materials accessioning tools

Digitization workflow system

### Common basic function needs

Function	Description
Deposit	Upload simple or multipart objects, one- at-a-time or in bulk
Manage	Edit an object's content, metadata, and permissions
Search	Full text and fielded search for both user discovery and administration
Browse	Sequential viewing of objects by collection, attribute, or ad hoc filtering
Deliver	View, download, and disseminate objects through user and machine interfaces

### Common Solutions

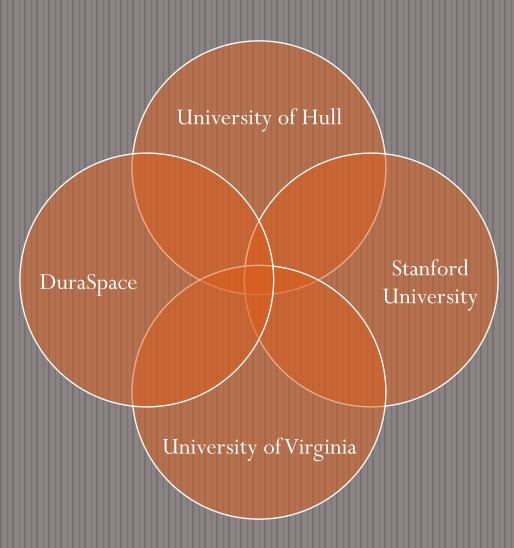
...arise from collaborating to solve a common problem

### Problem # 2

No single institution had the technical or financial resources to develop a scalable and sustainable solution

...finding a common solution requires finding like-minded partners

# A Partnership is Formed



### Hydra was conceived

••• "one body, many heads"

#### An open architecture

• many contributors to a common core [Hydrangea]

### Collaboratively built solution bundles

• customizable and adaptable for local needs

### A community model

• developers and adopters who extend/enhance the code

### Hydra's Operating Principles

Tailored applications and workflows

A common repository infrastructure

Flexible, atomistic data models

Modular, "lego brick" services

Library of user interaction widgets

Easily skinned user interface

## Hydra's Technical Framework



https://wiki.duraspace.org/display/hydra

## Common Commitment

...makes a collaboration successful

# Hydra "heads"

- **\*** ETDs
- **SALT**
- **\*** EEMS
- \* IR@Hull
- LIBRA



### Hydra's Success

#### **Growth Measures**

Use Cases Solutions for more than 7 use cases

Committees More than 25 committees (7 organizations)

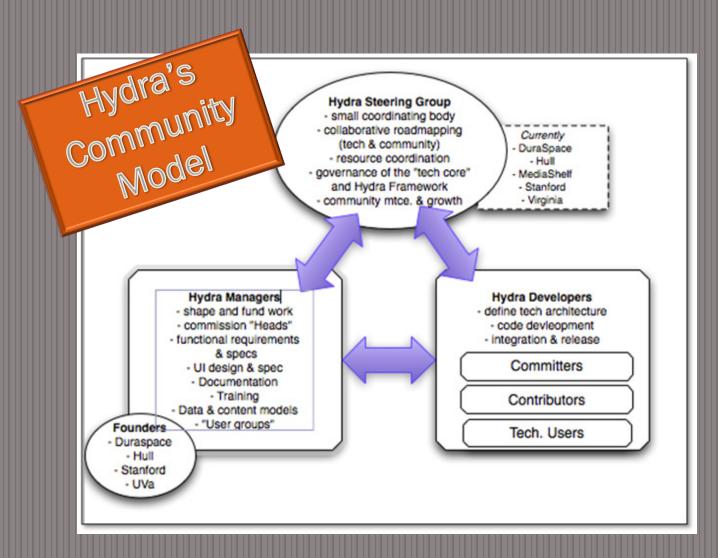
Partners # of partners doubled

Blacklight Dozens of implementations

Workshops 7 workshops; more than 20 attendees at each

Cost-effective OhLoh est. cost to develop Hydrangea from scratch at \$4.6M (84 person yrs @ \$55k /yr)

### Hydra's Evolution



"If you want to go fast, go alone.

If you want to go far, go together"

African Proverb

https://wiki.duraspace.org/display/hydra https://wiki.duraspace.org/display/hydra hydra