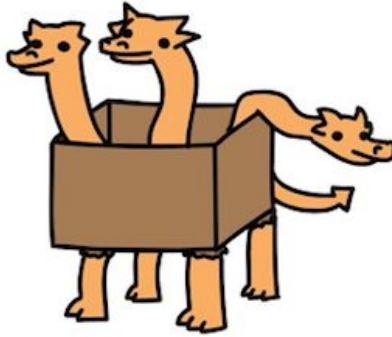


# Hydra-in-a-Box Update: *It's not a snappy turtle*



Hannah Frost & Mike Giarlo  
Hydra Connect ~ October 4, 2016  
<http://bit.ly/hybox-update-hc2016>



Heracles approaches Hydra on the shores of Lerna (reenactment)

# Project Background

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- 30 month National Leadership Grant from IMLS
- Fostering a national digital platform through community-based repository infrastructure
- Leverage & contribute to Hydra, both in code and community



STANFORD  
UNIVERSITY  
LIBRARIES



INSTITUTE of  
Museum and Library  
SERVICES



# Project Goals

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1. Develop turnkey, Hydra-based application that leverages and improves on core components
2. Develop metadata aggregation & enrichment tools
3. Connect components with DPLA hubs, current Hydra partners & prospective Hydra adopters
4. Work toward a hosted service

# Work Accomplished to Date

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- Repository Product

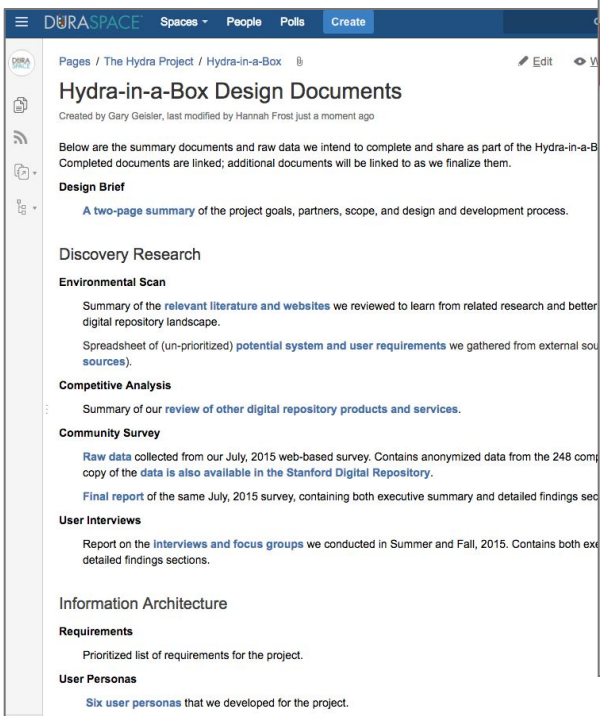
- Design Research (Jun 2015 - Jun 2016)
- Two Development Work Cycles (Mar - Nov 2016)

- Hosted Service

- Technical implementation in hand
- Business planning underway

- Aggregation Tooling

# Design Artifacts Published, Survey Data Archived



The screenshot shows the DURA SPACE interface for a project titled "Hydra-in-a-Box Design Documents". The page is organized into sections: "Design Brief" (a two-page summary), "Discovery Research" (Environmental Scan, Competitive Analysis, Community Survey, User Interviews), and "Information Architecture" (Requirements, User Personas). Each section contains a brief description of the artifacts.

**Hydra-in-a-Box Design Documents**  
Created by Gary Gesler, last modified by Hannah Frost just a moment ago

Below are the summary documents and raw data we intend to complete and share as part of the Hydra-in-a-Box project. Completed documents are linked; additional documents will be linked to as we finalize them.

**Design Brief**  
A two-page summary of the project goals, partners, scope, and design and development process.

**Discovery Research**

**Environmental Scan**  
Summary of the relevant literature and websites we reviewed to learn from related research and better understand the digital repository landscape.  
Spreadsheet of (un-prioritized) potential system and user requirements we gathered from external sources.

**Competitive Analysis**  
Summary of our review of other digital repository products and services.

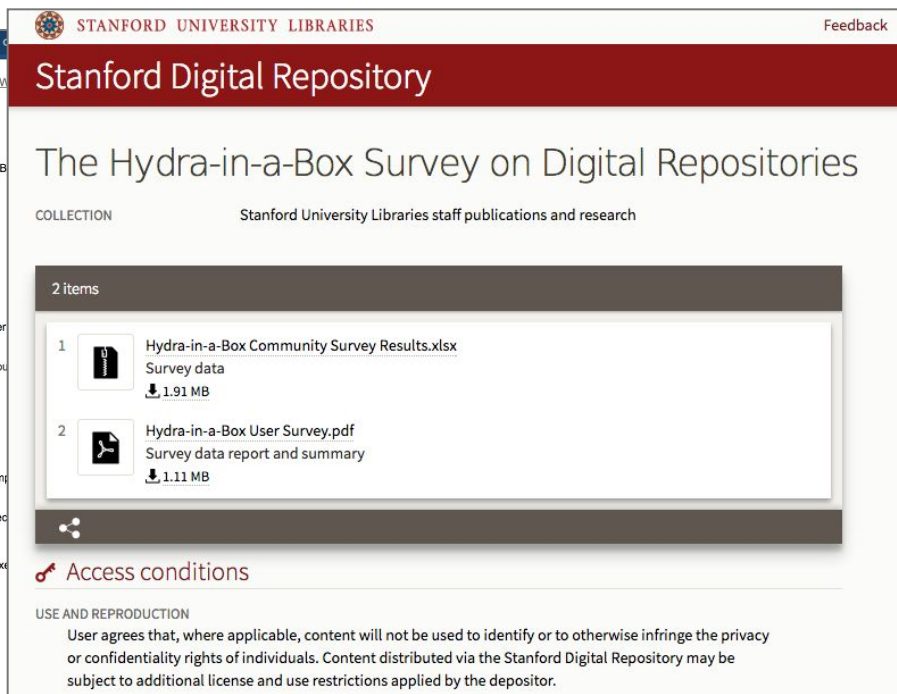
**Community Survey**  
Raw data collected from our July, 2015 web-based survey. Contains anonymized data from the 248 completed copies of the data is also available in the Stanford Digital Repository.  
Final report of the same July, 2015 survey, containing both executive summary and detailed findings sections.

**User Interviews**  
Report on the interviews and focus groups we conducted in Summer and Fall, 2015. Contains both executive summary and detailed findings sections.

**Information Architecture**

**Requirements**  
Prioritized list of requirements for the project.

**User Personas**  
Six user personas that we developed for the project.



The screenshot shows the Stanford Digital Repository interface for a collection titled "The Hydra-in-a-Box Survey on Digital Repositories". The collection contains two items: "Hydra-in-a-Box Community Survey Results.xlsx" (Survey data, 1.91 MB) and "Hydra-in-a-Box User Survey.pdf" (Survey data report and summary, 1.11 MB). Below the items, there is a section for "Access conditions" and "USE AND REPRODUCTION".



**STANFORD UNIVERSITY LIBRARIES** Feedback

**Stanford Digital Repository**

**The Hydra-in-a-Box Survey on Digital Repositories**

**COLLECTION** Stanford University Libraries staff publications and research

**2 items**

- 1  Hydra-in-a-Box Community Survey Results.xlsx  
Survey data  
1.91 MB
- 2  Hydra-in-a-Box User Survey.pdf  
Survey data report and summary  
1.11 MB

**Access conditions**

**USE AND REPRODUCTION**  
User agrees that, where applicable, content will not be used to identify or to otherwise infringe the privacy or confidentiality rights of individuals. Content distributed via the Stanford Digital Repository may be subject to additional license and use restrictions applied by the depositor.

All available on the project wiki:

<http://bit.ly/hybox-design-docs>

## Features of Note

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- DPLA MAP v4 and ResourceSync for harvesting
- Administrative Sets
- Batch import, batch metadata editing

# User Interface Designs

The image displays two overlapping user interface designs for the Stanford Digital Repository.

**Background Design (Public-Facing Website):**

- Header:** Stanford University Libraries logo and navigation links (HOME, ABOUT, HELP, CONTACT).
- Hero Section:** "Stanford Digital Repository Online Deposit" with a "Share Your Work" button.
- Featured Works:** A list of featured research papers, including "Pearse, John S. (2003 - 2009). Long Term Monitoring of Harbor Seals on the West Beach of Hopkins Marine Station" and "Chandrasekhar, Vijay and Chen, David and Tsai, Sam and Cheung, Ngai-Man and Chen, Huizhong and Takacs, Gabriel and Reznik, Yuriy and Vedantham, Ramakrishna and Grzeszczuk, Radek and Bach, Jeff and Girod, Bernd. (2013). Stanford Mobile Visual Search Dataset."
- Explore Collections:** A section for exploring collections, featuring "Butterfly image" (63 items), "Steven Chu Papers" (4 items), "Stanford University" (287 items), and "Hand-Tinted Photographs from the 1930s through the 1950s" (56 items).

**Foreground Design (Administrative Dashboard):**

- Header:** "Stanford Digital Repository" with a user profile for Hannah Frost, Digital Repository Manager.
- Navigation:** A sidebar menu with sections: ACTIVITY (Repository activity, Your activity), CONFIGURATION (Settings, Roles and permissions, Site maintenance), REPOSITORY OBJECTS (Administrative sets, Collections, Works, Files), TASKS (Bulk edit, Import and Export, Reports).
- Summary Cards:** Four cards showing key metrics:
  - REGISTERED USERS:** Current 375
  - TOTAL VISITORS:** Past 30 days 3,548
  - RETURNING VISITORS:** Past 30 days 1,695
  - NEW VISITORS:** Past 30 days 1,977
- Collections Table:** A table listing recent collection activity with columns for COLLECTION, STATUS, and OBJECTS.

COLLECTION	STATUS	OBJECTS
Stanford University, Center for Computer Research in Music and Acoustics, Records	Published	42
Order of Siberian Snow Dogs Photographs and Roster	Unpublished	20
Donald E. Knuth Papers	Published	71
Stanford Student Photograph Album	Published	2064
Stanford University, Department of Computer Science, Technical Notes	Published	388
- User Activity:** A bar chart showing new and returning users from August 10 to August 16, 2016.
- Repository Growth:** A line chart showing repository growth from 2016-08-11 to 2016-08-15.
- Repository Objects:** A donut chart showing the current status of repository objects, with 2,513 published.



# DPLA Aggregator Update

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- Dashboard development starting Fall 2016; focused on providing staff-facing functionality to manage processes
- Working now to clarify requirements of tools to support QA for metadata aggregation
- Ongoing work to improve performance and reliability throughout the stack

# 2017 Plans

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- More development work cycles

- Content type support
- APIs
- Exhibits

- Pilots

- Locally-installed repository
- Hosted service pilot

- Naming our repository product

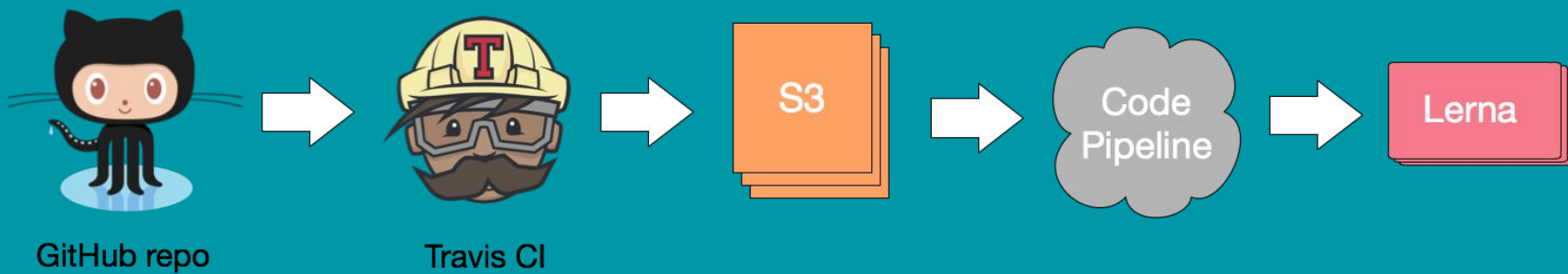
# Repository Development

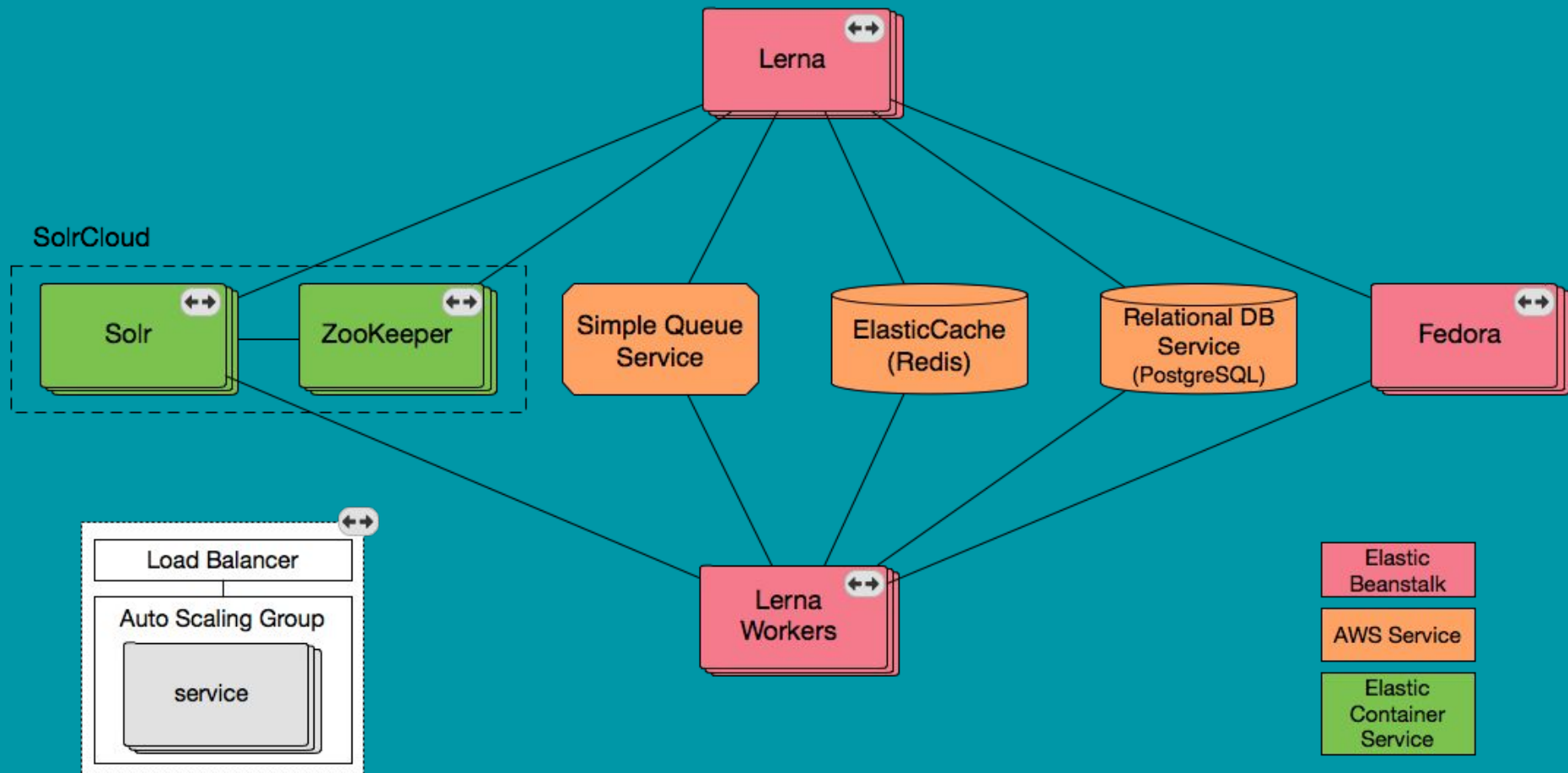
Recap of Jan.-Jun. 2016

# Infrastructure Support and Features



# Continuous Deployment







But wait, there's more...

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HVC2016: <http://bit.ly/hvc2016-video>

July Demo: <http://bit.ly/hybox-summer2016>



STEVEN SPIELBERG PRESENTS

**BACK**  
**TO THE FUTURE**™

A ROBERT ZEMECKIS FILM

# Features, Features, Features

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**Fedora<sup>TM</sup>**

# Features, Features, Features

---

Improved batch editing of metadata

# Features, Features, Features

---

Home / Administration / Administrative Sets

## Administrative Sets

Show  entries

Title	 Date created	 Creator
<a href="#">My Admin Set</a>	09/26/2016	mjgiarlo@stanford.edu

Showing 1 to 1 of 1 entries


# Features, Features, Features

---

Mediated deposit workflow


# Features, Features, Features


Stanford Digital Repository




Hannah Frost  
Digital Repository Manager


ACTIVITY

 Repository activity

 Your activity

CONFIGURATION

 Settings

 Roles and permissions

Repository Home > Administration > Repository Dashboard

REGISTERED USERS  
Current  
**375**

TOTAL VISITORS  
Past 30 days  
**3,548**

Collections  
Recent collection activity

COLLECTION

Stanford University, Center for Computer Research in Music and Acoustics, R

Order of Siberian Snow Dogs Photographs and Roster

Donald E. Knuth Papers

Stanford Student Photograph Album

Stanford University, Department of Computer Science, Technical Notes

# Features, Features, Features

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Complex objects support

# Ongoing Community Engagement



# Community Sprints

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- Complex objects (Princeton, Oregon State, Chemical Heritage Foundation)
- Mediated deposit (Oregon State, Cincinnati, Indiana, Michigan, Cal State, Penn State, Notre Dame, Cincinnati)
- Admin dashboard (Princeton, Penn State, Cincinnati, Cornell)
- Fedora Import/Export (York (🍁), Columbia, Princeton, Virginia, Penn State, DuraSpace)
- FileSets WG (Art Institute of Chicago and others)

# Ways to Engage

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Interested in participating in the service pilot?

<http://bit.ly/hydrainabox-service-pilot>

Have a name idea?

<http://bit.ly/hybox-repo-name-ideas>

Follow along on YouTube:

<http://bit.ly/hybox-playlist>

# Relevant Sessions at Hydra Connect This Week

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- Poster: Administrative Sets
- Presentation: Technical walkthrough of hosted platform
- Lightning Talks
  - Sipity ; Fedora 4 Import/Export ; IIIF in Hydra
- Unconference
  - “Easy to maintain” ; Workflow in Sufia/CC

## Keep in Touch

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Visit our website and blog: [hydrainabox.org](http://hydrainabox.org)

Follow us on Twitter: [@HydraInABox](https://twitter.com/HydraInABox)



Public information list: [hybox-info@googlegroups.com](mailto:hybox-info@googlegroups.com)

Contact us: [hybox-contact@googlegroups.com](mailto:hybox-contact@googlegroups.com)

Thank you!