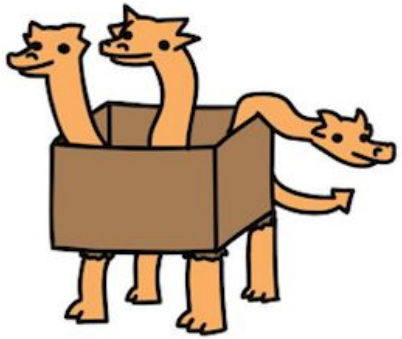
Hydra-in-a-Box Update:
It's not a snappy turtle



Hannah Frost & Mike Giarlo

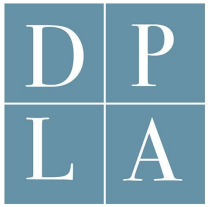
Hydra Connect ~ October 4, 2016

http://bit.ly/hybox-update-hc2016

Heracles approaches Hydra on the shores of Lerna (reenactment)

Project Background

- 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
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Museum and Library
SERVICES

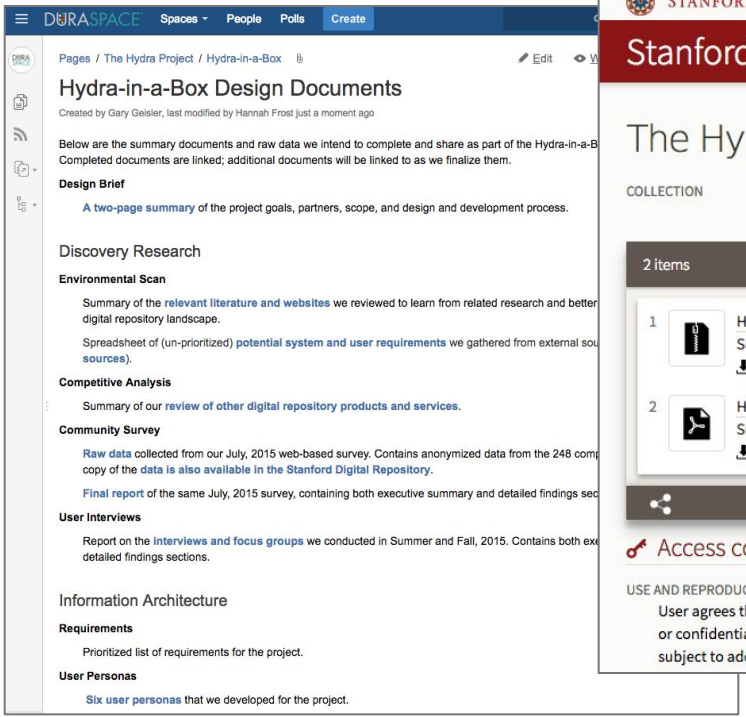
Project Goals

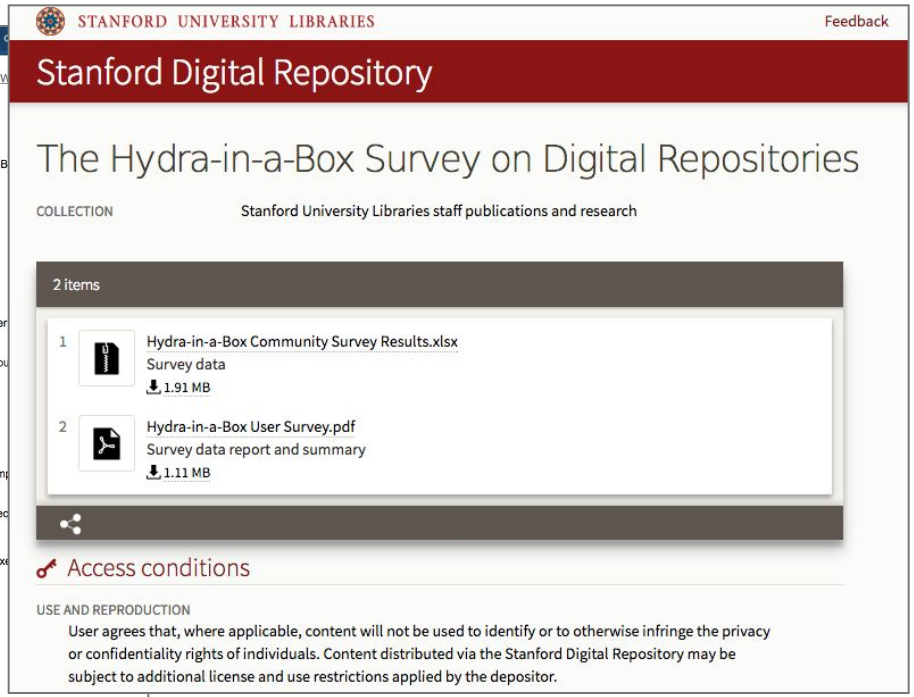
1. Develop turnkey, Hydra-based application that leverages and improves on core components
2. Develop metadata aggregation & enrichment tools
3. Connect components with DPLA hubs, current Hydra partners & prospective Hydra adopters
4. Work toward a hosted service

Work Accomplished to Date

- 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





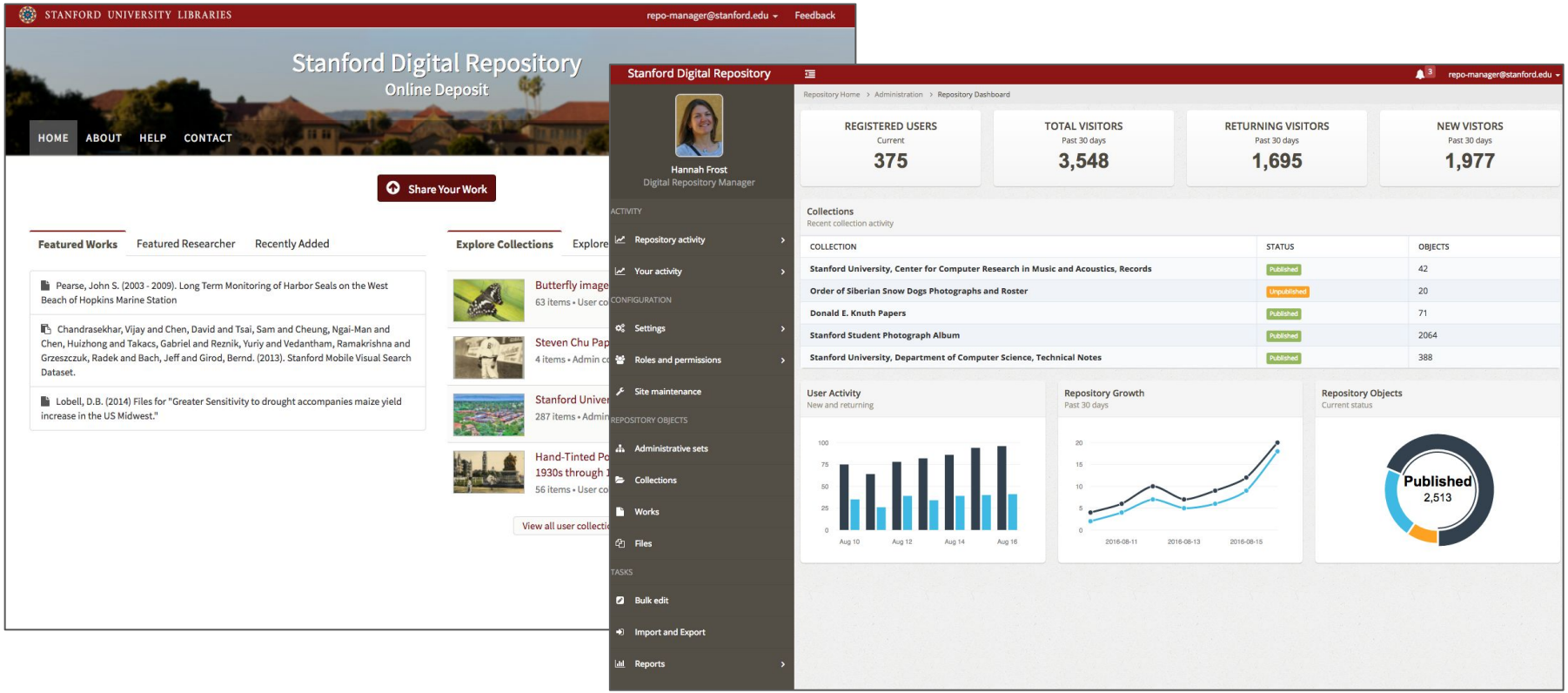
All available on the project wiki:

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

Features of Note

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

User Interface Designs



DPLA Aggregator Update

- 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

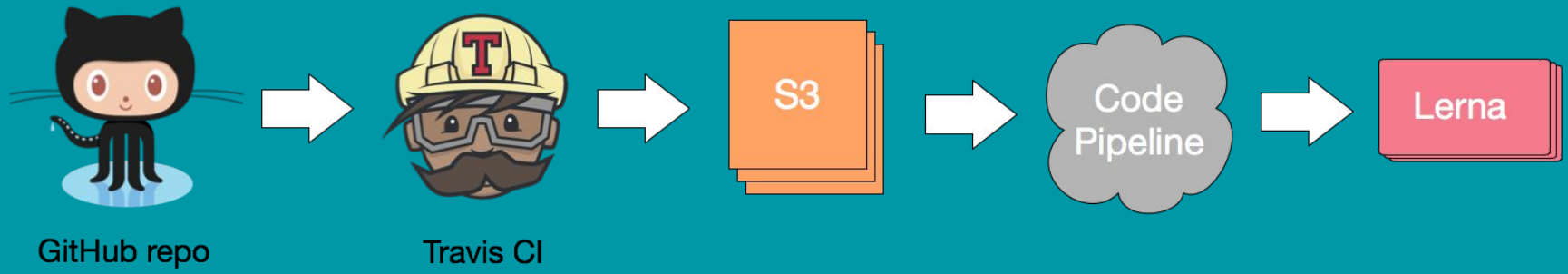
- More development work cycles
  - Content type support
  - APIs
  - Exhibits
- Pilots
  - Locally-installed repository
  - Hosted service pilot
- Naming our repository product

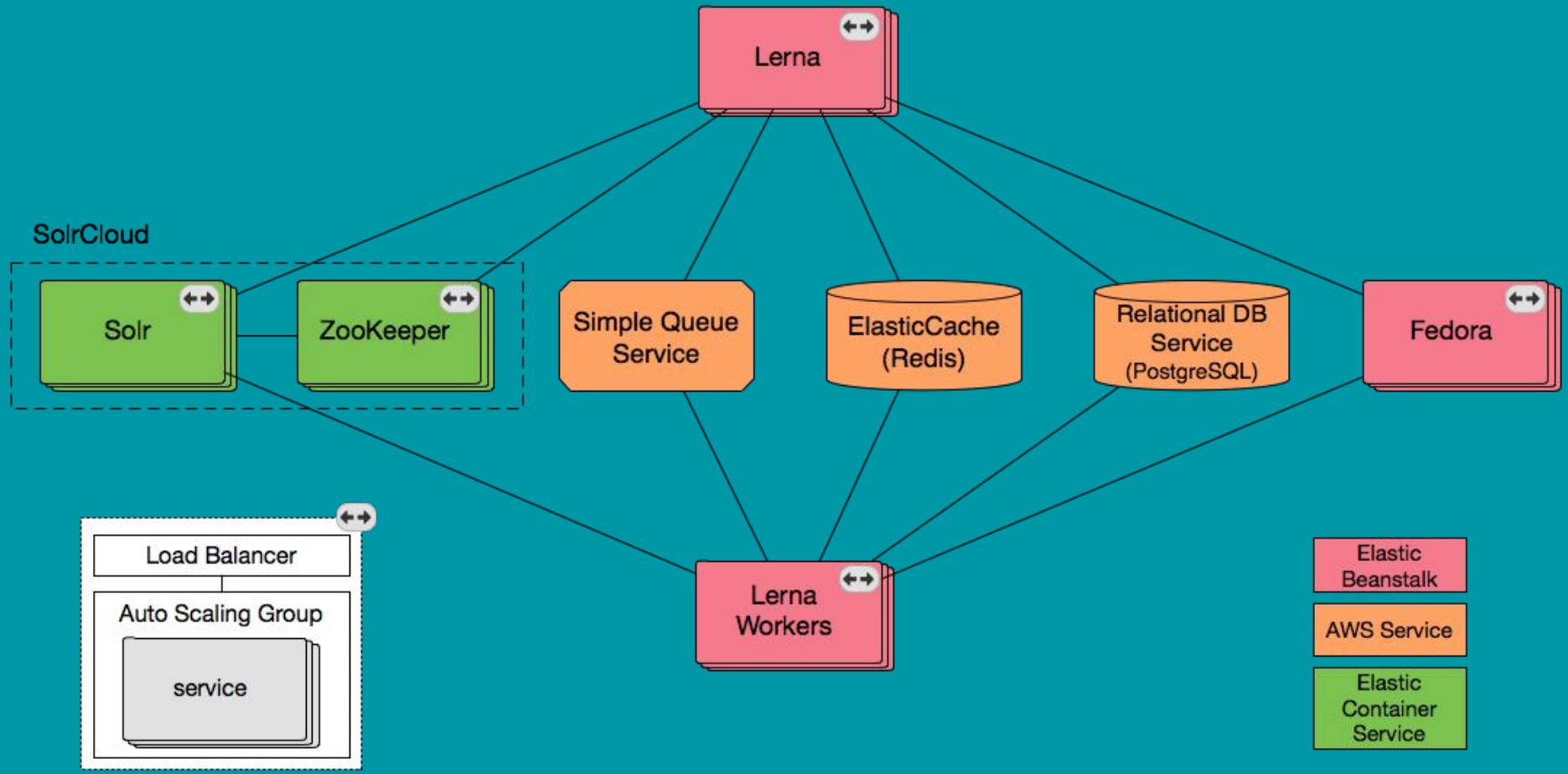
Repository Development

Recap of Jan.-Jun. 2016

Infrastructure Support and Features

Continuous Deployment




Lerna
SolrCloud
Solr
ZooKeeper
Simple Queue Service
ElasticCache (Redis)
Relational DB Service (PostgreSQL)
Fedora
Load Balancer
Auto Scaling Group
service
Lerna Workers
Elastic Beanstalk
AWS Service
Elastic Container Service

But wait, there's more...

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

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

BACK
TO THE FUTURE

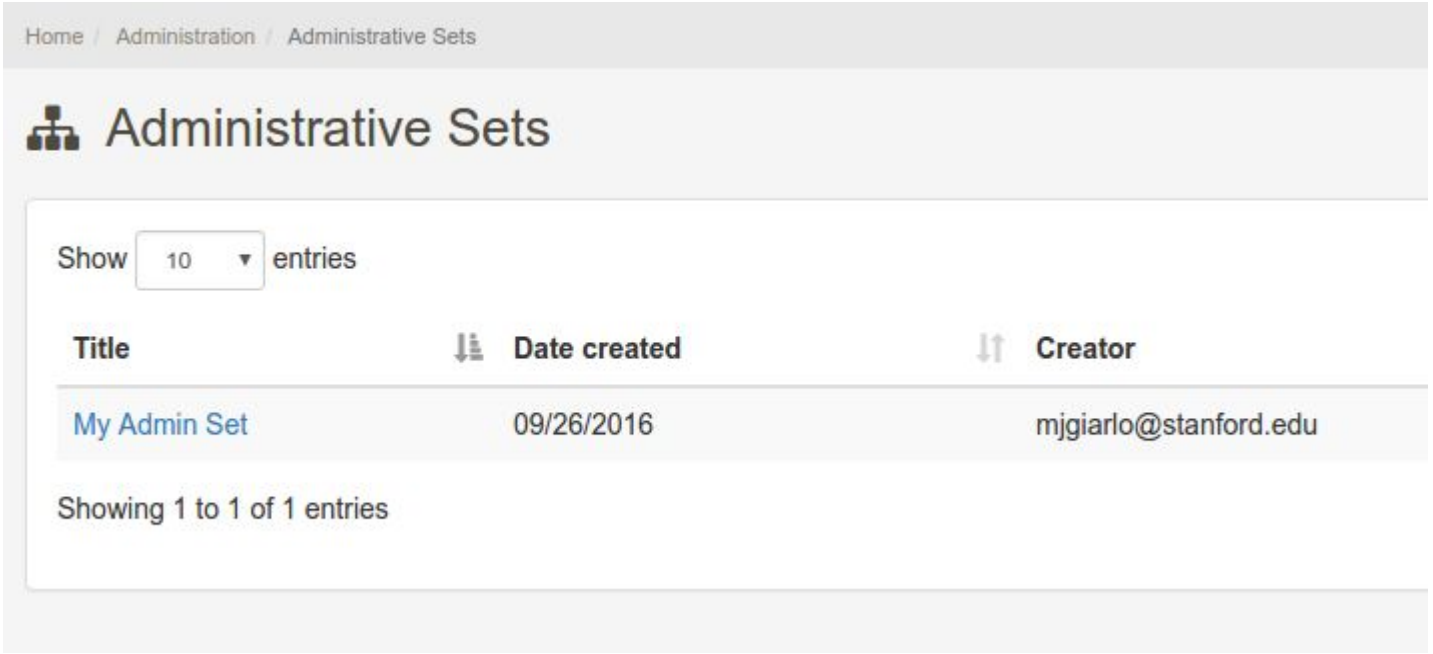
Features, Features, Features

Fedora™

Features, Features, Features

Improved batch editing of metadata

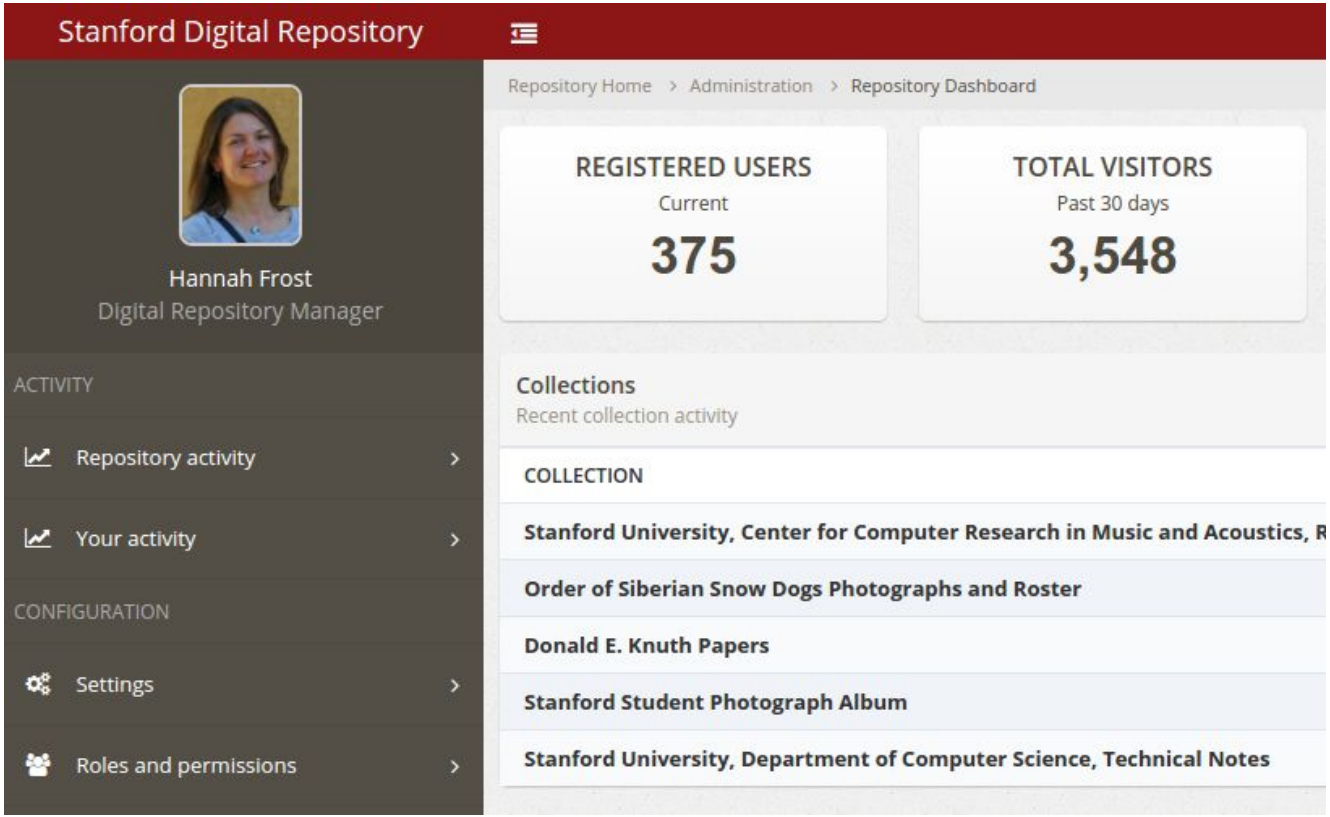
Features, Features, Features



Features, Features, Features

Mediated deposit workflow

Features, Features, Features



Features, Features, Features

Complex objects support

Ongoing Community Engagement

Community Sprints

- 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

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

- 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

Visit our website and blog: hydrainabox.org

Follow us on Twitter: @HydraInABox

Public information list: hybox-info@googlegroups.com

Contact us: hybox-contact@googlegroups.com

Thank you!