

# From library repository to university-wide service

**Stanford Digital Repository as a case study**

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Stanford University Libraries

Open Repositories ❖ Helsinki ❖ June 12, 2014

# The Stanford Digital Repository (SDR) is...

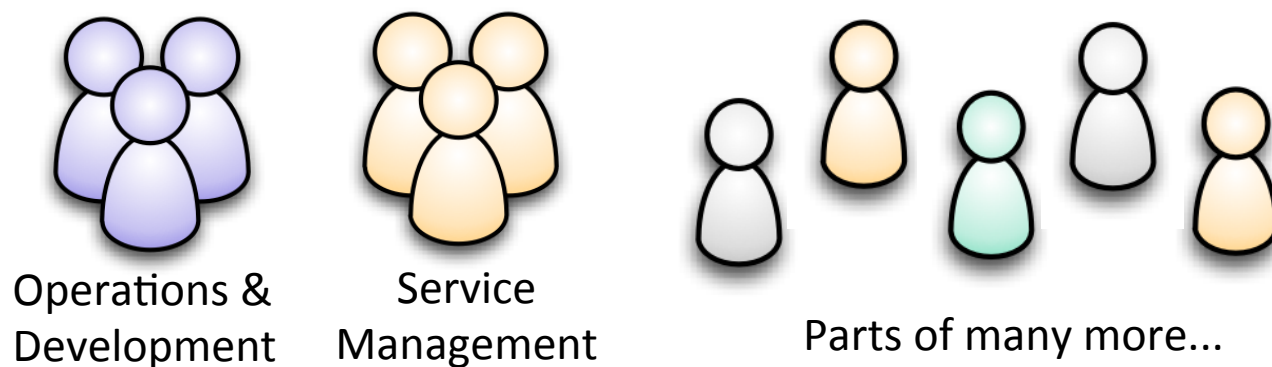
- a Fedora-based preservation repository,
- with Hydra-based deposit, management and access services,
- for library collections, domain-specific scholarly resources, and content of enduring value generated by the Stanford community.

<http://library.stanford.edu/sdr>

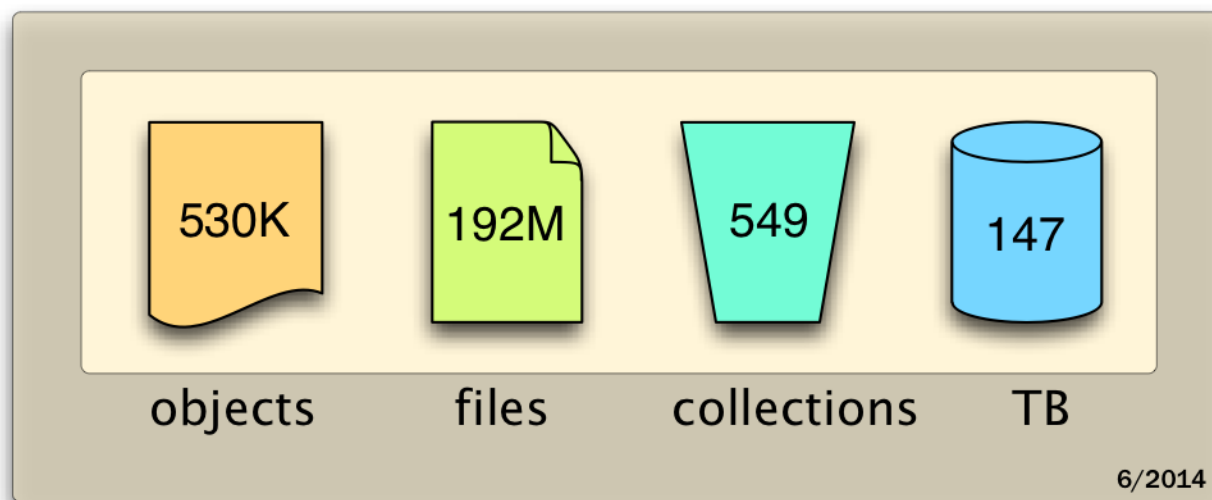


# Current Profile of the SDR

## Staffing



## Volume



## IR content is modest ...



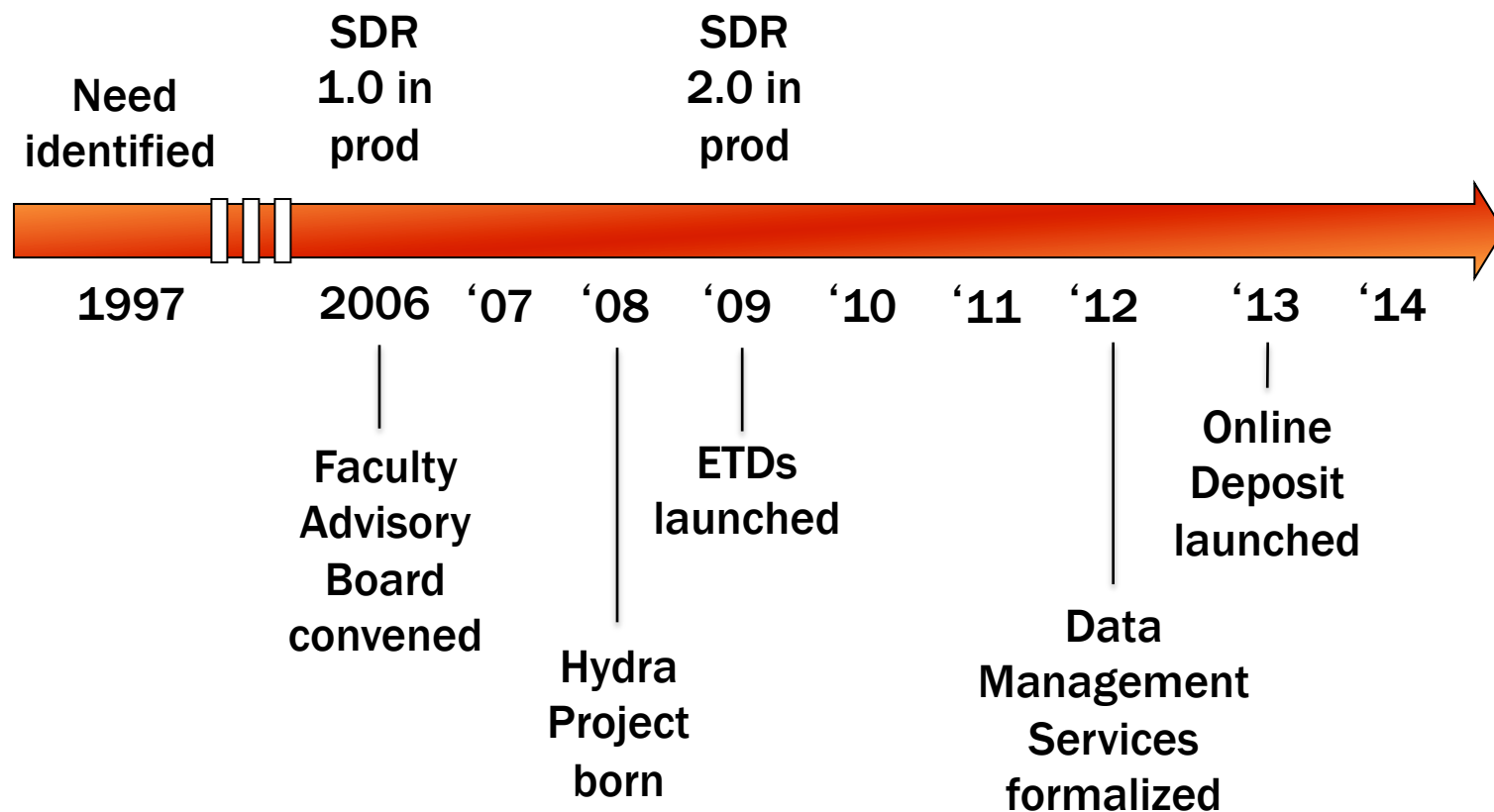
SDR objects

- 3300 ETDs
- 1300 objects from Stanford depositors
- All else are library collections

## But growing rapidly:

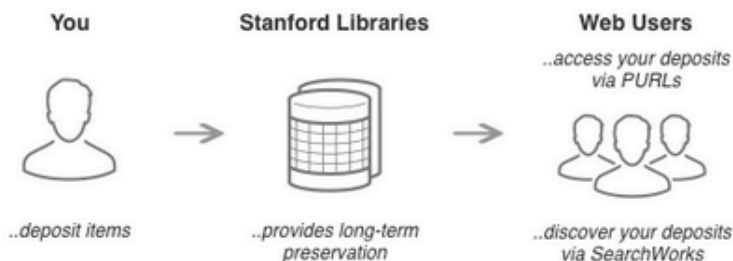
- Objects: ↑ 40% in 6 months
- Depositing student programs & courses: ↑ 275% in 1 year

# SDR IR Services Development Timeline



## Stanford Digital Repository – Online Deposit

The SDR is a service supporting long-term management of scholarly information resources at Stanford. Faculty, students, and researchers use the SDR to promote and protect the products of their work. The benefits of this service distinguish the SDR from other content storage or management options on campus: deposited scholarly content is preserved in a robust, reliable, and secure environment and is available from persistent URLs (PURLs) with optional access controls.



The growing body of content deposited in the SDR includes:

- scientific research data like [this data set](#)
- digital humanities research data like [this corpus](#)
- honors theses, like [this undergraduate work](#)
- images, audio and video like [this podcast](#)
- software and computer games like [DOOM](#)
- student projects, like [this final team report](#)
- technical reports like [this publication](#)
- archival collections like [Project MKULTRA](#)

[Sign in via WebAuth](#)  
to access your deposited content

[Contact the SDR](#)  
to become a depositor

[Find SDR Deposits](#)  
using SearchWorks

» [Data Management Plans and SDR](#)  
» [SDR Services Information web site](#)

## Code and data supplement for "Perceived depth in natural images reflects encoding of low-level luminance statistics"

Author/Creator: Cooper, Emily A. (Author)  
Norcia, Anthony M. (Author)

Date created: 2013-2014

Type of resource: Software, multimedia

Genre: Dataset

Abstract: The online Supplemental Material contains high-resolution versions of all images used in the perceptual experiments. Also included is MATLAB code for performing the analyses reported in the article. This includes the natural scene statistics analysis, the image manipulation, and the perceptual experiment analysis (raw response data from both experiments is provided).

Preferred Citation: Cooper, E. A. and Norcia, A. M. (2014). Stanford Digital Repository: Code and data supplement for "Perceived depth in natural images reflects encoding of low-level luminance statistics."  
<http://purl.stanford.edu/yg499sy5636>

Related Publication: Cooper, E. A. and Norcia, A. M. (2014) Perceived depth in natural images reflects encoding of low-level luminance statistics.

Contact: [emilyacooper@gmail.com](mailto:emilyacooper@gmail.com)

Collection: Stanford Research Data

Subject: natural scene statistics  
depth perception  
image manipulation

### File (Download)

### Description



**CooperNorciaSupplementalMaterial.zip** (300 MB)

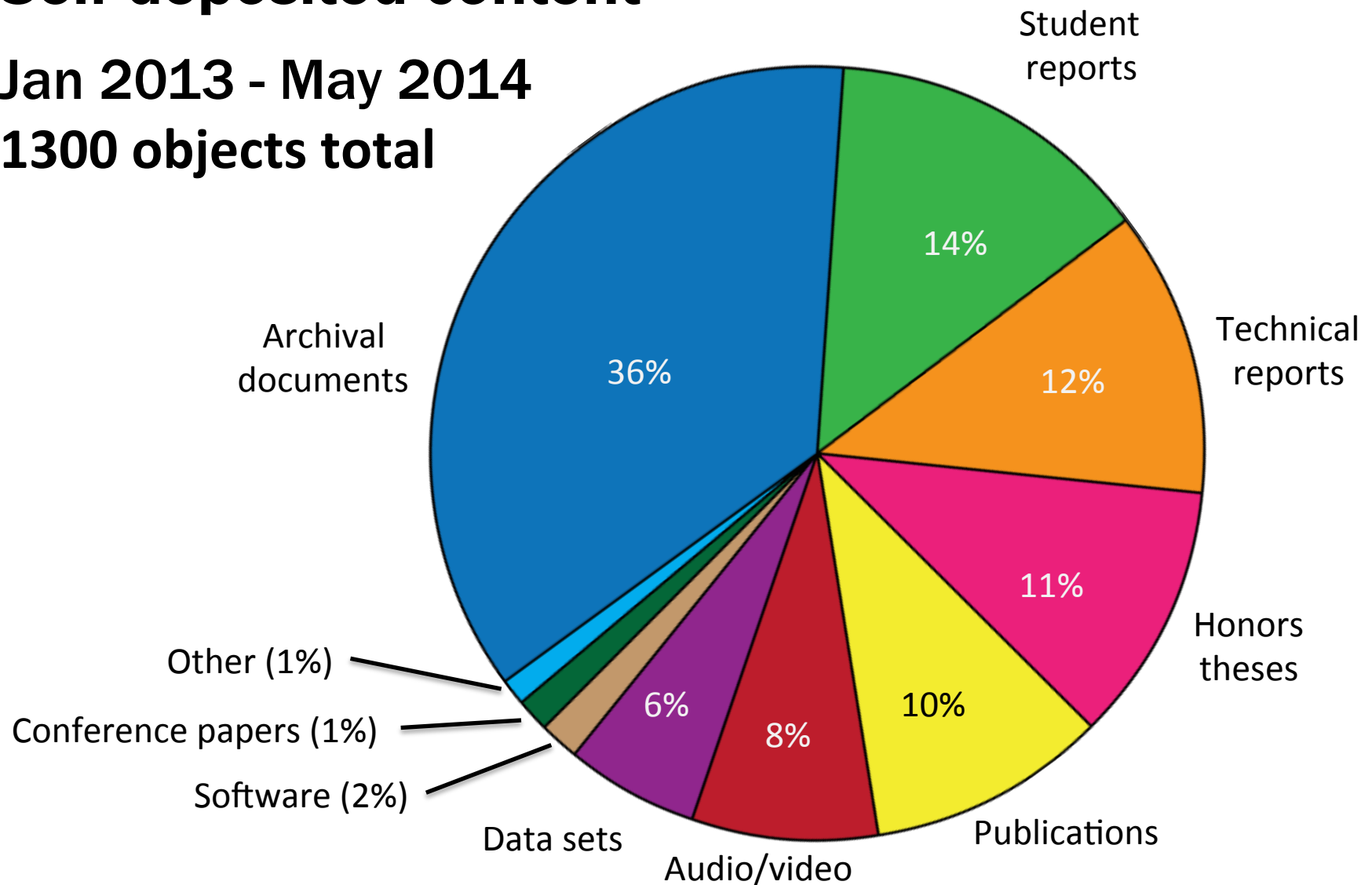
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# Self-deposited content

Jan 2013 - May 2014

1300 objects total

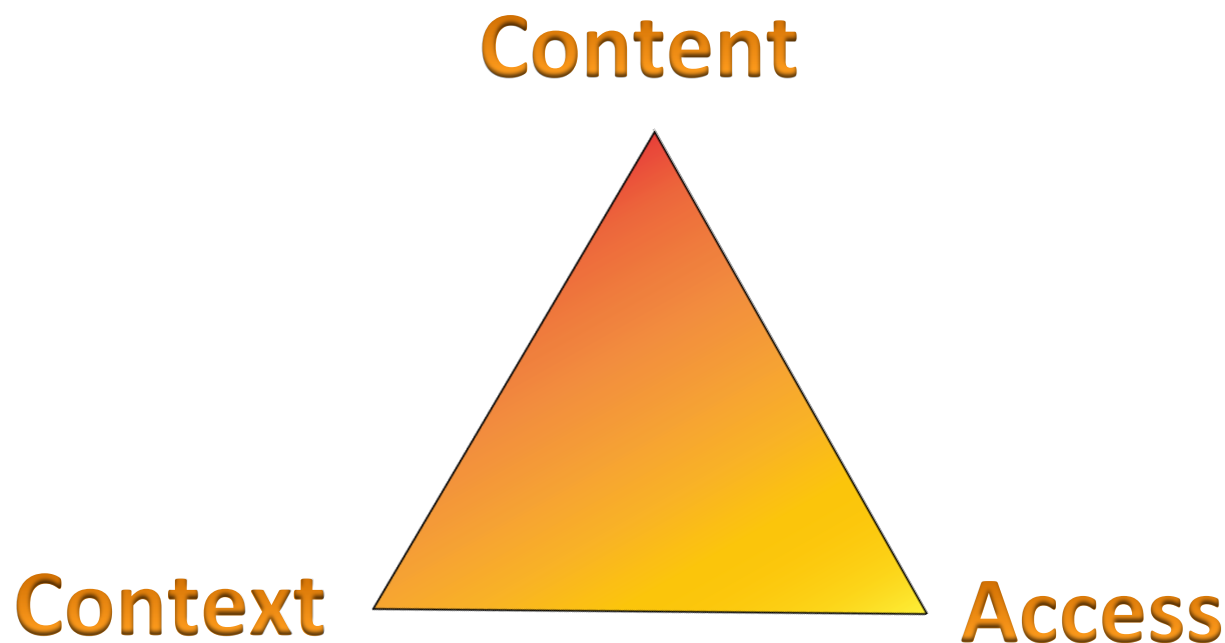


# More on the SDR today

- Agile software *and* service development
- Focus on research data, student works
- Favor timely deposit with low barrier tools
- Ever mindful of TDR



# Foundations for Repository Services



From *The Research Library's Role in Digital Repository Services:  
Final Report of the ARL Digital Repository Issues Task Force* (2009)  
<http://www.arl.org/storage/documents/publications/repository-services-report-jan09.pdf>

# Foundations for Repository Services

Currently for the SDR

## Content

- No shortage!
- Increasingly diverse

## Context

- Low barrier metadata requirements facilitates adoption, but at risk of reduced quality for discovery
- Bolstering metadata processes, support

## Access

- Major focus
- Revamping discovery environment to improve access to IR content

# **Key Issues for Growing SDR's IR Services**

- 1. Thinking like a business**
- 2. Supporting the service**
- 3. Recognizing the preservation challenges**

# 1. Thinking like a business

Repository services require business acumen

- Know the competition and complementary services
  - Figshare, Dryad, ICPSR, etc.
- Policy and legal issues
  - Deposit agreement framework
- Financing and cost modeling
  - “Under construction”

# Marketing and Communications

Know what the depositor values

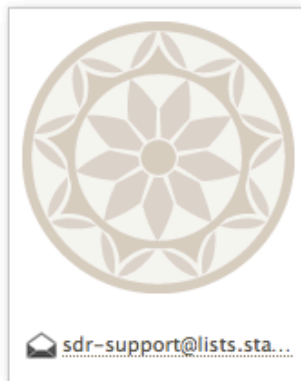
- Saving time!
- Library services?
- Institutional affiliation?

Pay attention to language

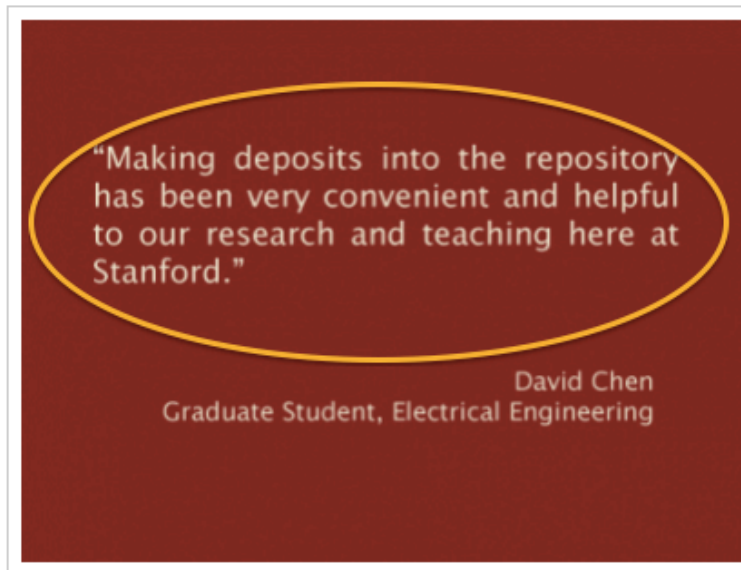
- Long-term preservation ➔ Persistent access

Emphasize the benefits

Home ▸ Research Support ▸ Stanford Digital Repository



## Stanford Digital Repository



### Quick links

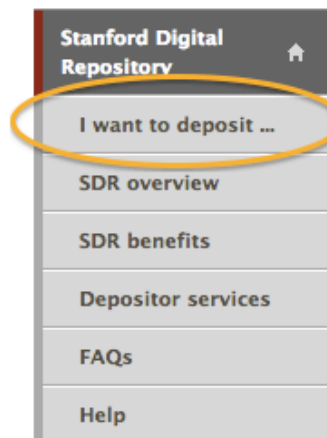
[SDR FAQs](#)

[SDR Blog](#)

[SDR for SUL staff](#)

[Data Management Services](#)

[Digital Library Systems and Services](#)



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The Stanford Digital Repository supports management of scholarly information resources of enduring value to Stanford University. Faculty, students, and researchers use SDR services to promote and protect the products of their work. Scholars around the world use content in the SDR in their research. The benefits of this service distinguish the SDR from other content storage or management options on campus: deposited content is preserved in a robust, reliable, and secure environment for access by scholars today and for generations to come.

# Other Marketing Techniques

- Blog posts
- Newsletters
- Ads
- Faculty meetings
- Events on key issues  
(e.g., US OSTP mandate for science data)
- “Deposit Parties”
- Focus on grad students, young faculty
- Build on familiarity with ETD system



## SDR Deposit of the Week: Generation Anthropocene

**An.thro.po.cene:** /ˈænθrəˌpəˌsiːn/ **noun** The current geologic age, viewed as the period during which human activity has been the dominant influence on climate and the environment. -- Oxfc Dictionaries

Great things are going on at the Stanford Digital Repository (SDR), and when great things are going on, word is sure to get around. Earth Sciences PhD student Mike Osborne is the creator and co-



## SDR Deposit of the Week: And he told a friend ...

This is a story about the power of word of mouth.

[Read more](#)



Looking for a personaliz

## SDR Deposit of the Week: What's the Big Idea ... Festival?

The Big Idea Festival was a big deal to the students enrolled in "Computers and Interfaces: Psychological and Societal Perspectives", an undergraduate course (Communications 169) taught by [Cliff Nass](#) in Winter 2013.

The event, which took place at Stanford on March 11, was a showcase of projects produced by teams of students with the assignment to imagine and design innovative interactions between automobiles and the people who drive them.



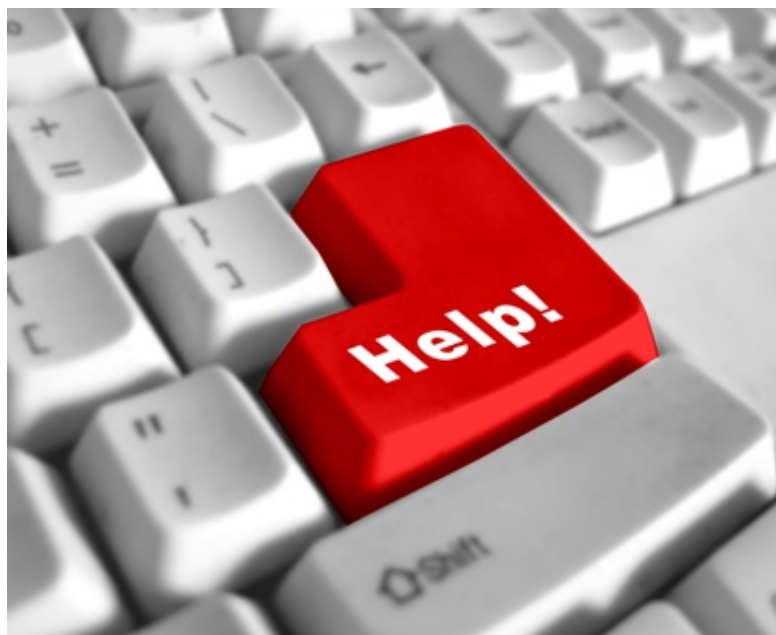
## SDR Deposit of the Week: Preserving Virtual Worlds and more in SearchWorks

Some of the latest work underway in Digital Library Systems and Services involves adding digital collections to SearchWorks. Last week saw the addition of five new collections to SearchWorks, all created and deposited to the Stanford Digital Repository using the Self-Deposit web application.

Of the five, we're highlighting Preserving Virtual Worlds, a collection produced by curator Henry Lowood and a team of collaborators in a multi-institution project funded by the Library of Congress. Original software, gameplay samples, technical documentation, web sites, and other contextual information for games like SimCity, DOOM, and Star Raiders are archived for the ages. [Henry's blog announcement](#) sums up the project and collection nicely.

[Read more](#)

## 2. Supporting the Service



# The SDR Service Team

## *Since 2013*



Matt



Nicole



Regina



Hannah



Rosy



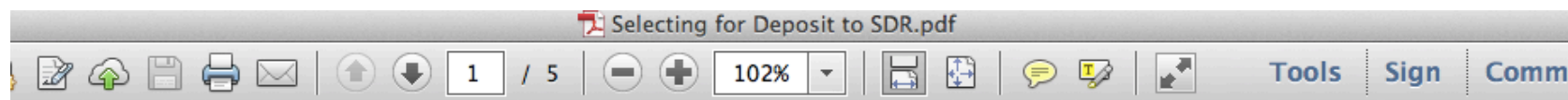
Stella



Amy

# Service Team Function and Roles

- Power user and local expert
- Work directly with campus depositors, encourage other librarians to use SDR
- Develop user documentation
- Advise on software requirements and development priorities



## STANFORD UNIVERSITY LIBRARIES

# Selecting Research and Other Works for Deposit to the Stanford Digital Repository

When it is time to preserve the products of your research and creative output, you will need to carefully consider exactly which components of your work are most suitable for archiving and sharing. Different disciplines conduct research in different ways and produce content in different forms, so we have

provided some guidance for various fields, including the arts and music. For more information, see the [contact@lib](#) listed for the

### **SOCIAL SCIENCES RESEARCH**

For social science-specific questions, contact Ron Nakao, Data and Computational Social Science Librarian ([ronbo@stanford.edu](mailto:ronbo@stanford.edu))

Example 6: Your work involves analyzing census data

### **GENERAL**

- Definitely deposit:
  - study descriptions, codebooks, and summary statistics
  - results of your analysis
- Do not deposit:
  - original census data, as these are easily accessible elsewhere
  - for social science data, include study descriptions, codebooks, and summary statistics
- Maybe deposit:
  - intermediate versions of analyses or code if they are potentially useful to others or were used in publications or theses
- Not necessary to deposit:
  - incomplete, non-functional, or intermediate versions of code that would be of marginal

# Benefits of the SDR Service Team

- Leverage relationships
- Develop digital skills of librarians
- Cross-pollinate ideas
- Reorients SDR as a library-wide service, not technology
- Contributes to sustainability

It's how we scale.

### 3. Recognizing preservation challenges

Content is more diverse, less controlled:

- File formats
  - Robust file characterization processes
- File sizes
  - Impact on throughput and capacity planning
  - Especially media
- Challenges readiness for ISO 16363 audit

# How Hydra Helps Overall

- Well-suited to building services incrementally
- Strong, growing, sharing community
  - Fostering a community of product managers and service managers
  - Bolsters overall sustainability of and trust in the SDR



***Kiitos!***

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