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Presentations

Title

Institutional Dimensions of Data Curation:Astronomy, Research Libraries, and MultipleApproaches to Curation

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Authors

Thompson, Cheryl
Darch, Peter T.
Sands, Ashley E.
[et al.](#)

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Institutional Dimensions of Data Curation: Astronomy, Research Libraries, and Multiple Approaches to Curation

Cheryl Thompson

Peter T. Darch

Ashley E. Sands

Christine L. Borgman

Sharon Traweek

Milena S. Golshan



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1988: Planning and Design begins

1995: Construction begins

1998: Commissioning begins

2000: SDSS-I Operations begins

2005: SDSS-II begins

2008: SDSS-II ends

What happens to the data?

SDSS Data Transfer Process

- SDSS stakeholders partnered with two university libraries
 - Negotiation phase (2006-2008)
 - Implementation phase (2008-2013)
- SDSS stakeholders' goal was a dataset available:
 - Over the long-term
 - To astronomers
 - To produce new science and to reproduce existing science

SDSS Data Transfer Process

- The two libraries diverged in terms of:
 - The materials they curated
 - The services they implemented to support access and use
 - **The reuse possibilities afforded by their activities**

	Blue University Library	Red University Library
Data archive server (DAS)	X	X
Catalog archive server (CAS)	X	X
Administrative archive	X	-
Help desk	X	-
Raw data	-	X
Software	-	X

SDSS Data Transfer Process

- Institutional factors account for divergence

	Blue University Library	Red University Library
Data archive server (DAS)	X	X ←
Catalog archive server (CAS)	X	X
Administrative archive	X ←	-
Help desk	X	-
Raw data	-	X
Software	-	X

Blue University: Administrative Archive

- Traditional university library
 - Concerned with visibility at university
 - Special Collections Unit
 - Service orientation
- Library suggested inclusion of Administrative Archive

Blue University: Administrative Archive

- **Strategic objectives**
 - Articulate a new purpose for existing infrastructure
- **Mission, values, and internal culture**
 - Help users understand data
 - Archive university records and preserve faculty papers
- **Organizational structure**
 - Fit into existing, rigid structure
- **Infrastructure and capacity**
 - Leverage extant Special Collections Unit infrastructure
 - Leverage extant history of science expertise

Red University: Data Archive Server

- Transfer handled by autonomous unit in Red University library
 - *Institute for Innovation in Digital Curation (IIDC)*, pseudonym
 - Largely dependent on soft money
 - Research & development orientation
 - *Guardianship of Data (GD)* project
 - Agile culture of software development
- Data Archive Server (DAS)
 - Included at suggestion of IIDC during negotiation phase
 - Prioritized by IIDC during implementation phase

Red University: Data Archive Server (DAS)

- **Strategic objectives**
 - Reinforce work of GD project
- **Mission, values, and internal culture**
 - Boost research and development mission of the IIDC
- **Organizational structure**
 - Could be prioritized at discretion of the team (Agile structure)
- **Infrastructure and capacity**
 - Leverage staff expertise and GD infrastructure for an “easy win”

Conclusions

- Institutional factors intersected to produce outcomes
 - Strategic objectives
 - Mission, values, and internal culture
 - Organizational structure
 - Infrastructure and capacity
- Variations in factors produced variations in terms of:
 - The scholarly purposes for which the data could be used
 - The scholarly communities who found the dataset useful
- The university libraries:
 - Proved a partial solution to long-term curation
 - Opened up unexpected opportunities

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<http://knowledgeinfrastructures.gseis.ucla.edu>

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