Getting Started with the Texas Data Repository and Data Competencies

Laying the Foundation for Research Data Services: Session 1
Today’s speakers

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The Texas Digital Library is a consortium of Texas higher education institutions that builds capacity for preserving, managing, and providing access to unique digital collections of enduring value.
Member Priorities for Research Data Management

Outcome of structured discussion at TDL Data Symposium, November 2016:

1. Offer more tools and marketing materials for faculty outreach
2. Assess the impact of data reuse and repository functionality
3. More training for librarians
4. Support for large datasets
5. Refine system functionality and documentation over time
6. Present on/promote the repository at disciplinary conferences (not just library conferences)
About this series

In “Laying the Foundation for Research Data Services,” we will:

• Discuss the Texas Data Repository’s role within the context of research data infrastructure at Texas universities.
• Introduce the Data Information Literacy (DIL) model and illustrate its adaptation and implementation at one TDL member institution as a framework for building a data services program.
• Equip librarians with more information on how to communicate data services to their campus communities.
TDL Services Manager: Courtney Mumma

- Started February 1st
- Managing and promoting digital preservation and research data services including the Texas Data Repository
Today’s webinar:

- Review of the Texas Data Repository (Santi)
  - Role and value
  - Service model
  - Scope and functionality
  - How to participate
- Overview of the Data Competencies (Peace)
  - Their background and purpose
  - How they were developed
  - How they can be used
- Preview of what’s next (Kristi)
Problem: Increasing demands for researchers to make data accessible for a variety of reasons

Variety of storage options -- with specific rules, requirements, and restrictions
Goal: Provide infrastructure (and other) support that will help researchers:

- **comply** with funding mandates
- receive greater **recognition** for research data and researchers (DOIs, discoverability)
- produce **better research** (more reproducible, more efficient)
Goal: Provide infrastructure (and other) support that will help libraries:

• Become an integral part of the Research Data Lifecycle.
• Provide services at whatever level they are able
• Benefit from collaborative infrastructure/management and mutual support.
• Showcase institutional collections of research data.
Texas Data Repository

• Centrally hosted, collectively managed
• Built in open-source Dataverse

Search the Texas Data Repository

Add Data
Explore Data Repository
Learn More
Get Help

Publish and Track Your Data, Discover and Reuse Others' Data!
Add Data
Organize, publish, and archive

Share Data
Share data with trusted group

Version Data
Maintain multiple versions of data

Texas Data Repository Dataverse
A statewide collaboration of Texas higher education institutions

Share, publish, and archive your data. Find and cite data across all research fields.

Welcome to the Texas Data Repository, a statewide archive of research data from Texas Digital Library (TOL) member institutions.

QUICK LINKS
- Add a dataset
- Create a dataverse
- Explore data

LEARN MORE
- Go to the user guide.
- Contact a local university librarian for help.

Search this dataverse... Find Advanced Search

Trinity University Dataverse
UT Medical Branch Dataverse
University of Texas Dataverse
Texas State University Dataverse
Scope & Collecting policies

- Research data and products
- Any discipline; any file type
- Midsized-data set size
- Free of confidential or sensitive information
Texas Digital Library (technology)

Steering Committee (TDL & Data Repository Librarians)

Member Libraries (service & outreach)

Researchers (deposit, search, publish)
Learning More about TDR

- Explore documentation (including policies and user guides) at http://data.tdl.org
- Watch the previously recorded webinar “Launching the Texas Data Repository: How to Implement TDR at Your Institution” https://tdl-ir.tdl.org/tdl-ir/handle/2249.1/76366
Getting Started with TDR

- Submit MOU to TDL
- Integrate the system with Shibboleth
- Select representative for TDR Steering Committee
  - Questions? Contact TDL
Background
Twelve competencies were proposed, and skills that demonstrate the mastery of these competencies were listed.

It was agreed that these twelve competencies were reasonable starting points for the exploration of the data management processes of a range of STEM disciplines.
Use at UTA

To meet the needs of students, faculty, and staff of UTA campus in regards to working with data for teaching, learning, and research.
Campus data needs & competency-based learning

- Purdue’s DIL competencies were not created for direct translation to beginner-level data literacy instruction
- Data ethics
- Integration of data as support for argumentative assignments
- Data & digital literacy
Original DIL competencies

1. Intro to Datasets & Data Formats
2. Data Discovery & Acquisition
3. Data Management & Organization
4. Data Conversion & Interoperability
5. Quality Assurance
6. Metadata

7. Data Curation & Re-Use
8. Cultures of Practice
9. Data Preservation
10. Data Analysis
11. Data Visualization
12. Ethics, including citation of data
Changes

- Levels: emerging, intermediate & expert
- Three additional, one removed & two re-defined competencies
- Learning outcomes for each
Ethics

- Plagiarism
- Intellectual Property
- Privacy and Confidentiality issues

“In the case of the Oregon team, it was determined that existing trainings provided by the Institutional Review Board at Oregon was sufficient to meet the needs of the graduate students.”
Cultures of Practice

• Recognizes practices, values, and norms of chosen field, discipline, or subdiscipline as they relate to managing, sharing, curating, and preserving data.

• Recognizes relevant data standards of field (metadata, quality, etc.)
Implementation

Piloting training and instruction content in various disciplines to further develop categories and learning outcomes.
Implementation

a) instruction scaffolding in classes

b) workshop series

b) targeted training, including partnerships with graduate & faculty training groups
Session 2. Teaching Data: Developing Data Instruction Using a Multi-Level Competency Model

- Tuesday, February 28, 2017 | 11:00 AM - 12:00 PM (CST)
- In this webinar, Peace Ossom Williamson will discuss how the Data Information Literacy (DIL) model has been expanded at the University of Texas at Arlington as an adaptable frame on which to build an entire data services program. The presenter will describe the data competencies, their levels, and expectations for teaching emerging, intermediate, and expert level audiences.

Session 3. Learning By Example: Connecting Data Competencies with the Texas Data Repository

- Thursday, March 9, 2017 | 11:00 AM - 12:00 PM (CST)
- This webinar session will connect teaching data competencies explored in Session 2 with core functionality of the Texas Data Repository. It will address data competency learning outcomes, including: using the TDR to add, describe, share, and publish data; managing data, including versioning and de-accessioning data; and downloading and using data.
Questions and Discussion