
Learning By Example: Connecting Data Competencies with the Texas Data Repository

Laying the Foundation for Research Data Services: Session 3



Today's speakers



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Executive Director,
Texas Digital Library



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Head of Digital Research Services,
University of Houston Libraries



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Director for Research Data Services,
University of Texas at Arlington Libraries

Laying the Foundation for Research Data Services

Session 1. Getting Started with the Texas Data Repository and Data Competencies

- Recording: <http://hdl.handle.net/2249.1/79231>

Session 2. Teaching Data: Developing Data Instruction Using a Multi-Level Competency Model

- Recording: <http://hdl.handle.net/2249.1/79234>

Draft - Data Literacy Competencies 2.0

1. Data Awareness & Knowledge
 2. Discovery & Acquisition of Data
 3. Databases & Data Formats
 4. Data Conversion & Interoperability
 5. Data Organization & Management
 6. Data Wrangling
 7. Data Processing & Analysis
 8. Data Quality & Documentation
 9. Data Description
 10. Ethics
 11. Data Visualization & Representation
 12. Data Sharing & Preservation
-

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Today's Agenda:

Overview of TDR and the Research Data Management Lifecycle

Data competencies and TDR

- Sharing and Preserving
- Discovery/Download/re-use
- Citing (Ethics)
- Describing
- Versioning

Wrap up & Questions

Today's Questions:

How might TDR be used in data literacy workshops (and other outreach activities) that are based on the data competencies?

How does the TDR help researchers fulfill their data management obligations as expressed through the competencies?

Texas Data Repository

Built in open-source
Dataverse
Add, version, and
share data
Free of confidential
or sensitive
information

Search the Texas Data Repository

FIND



Add Data



Explore Data Repository



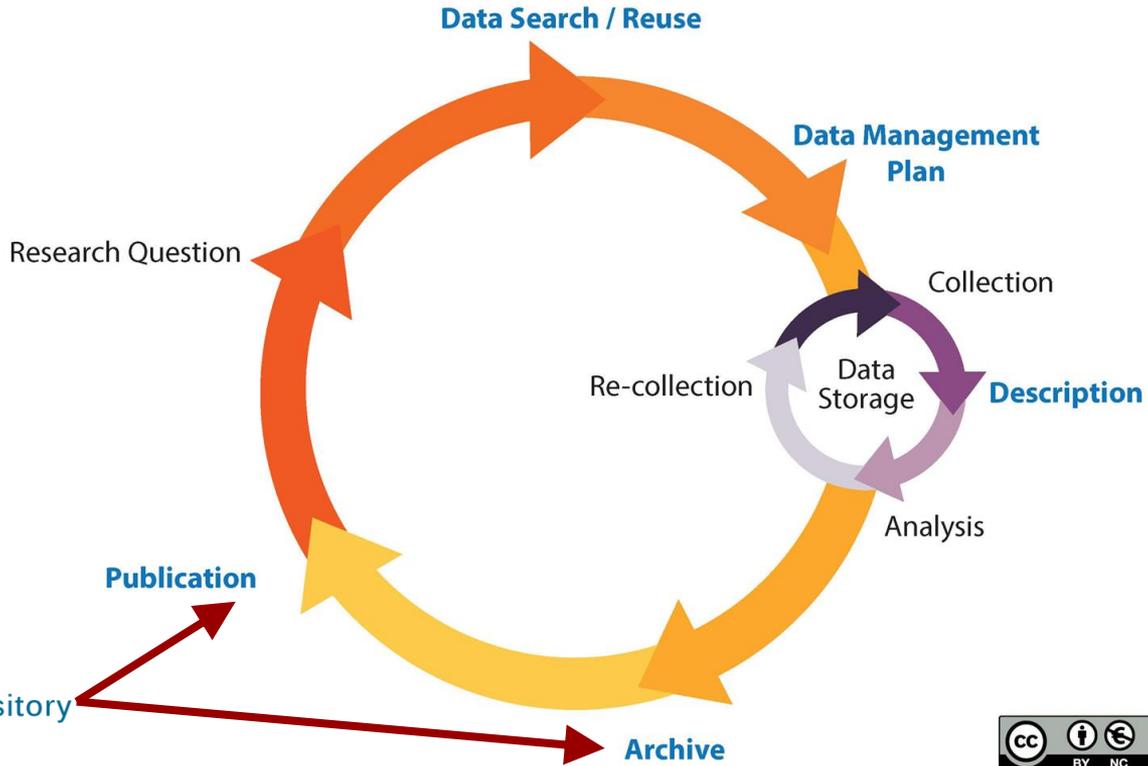
Learn More



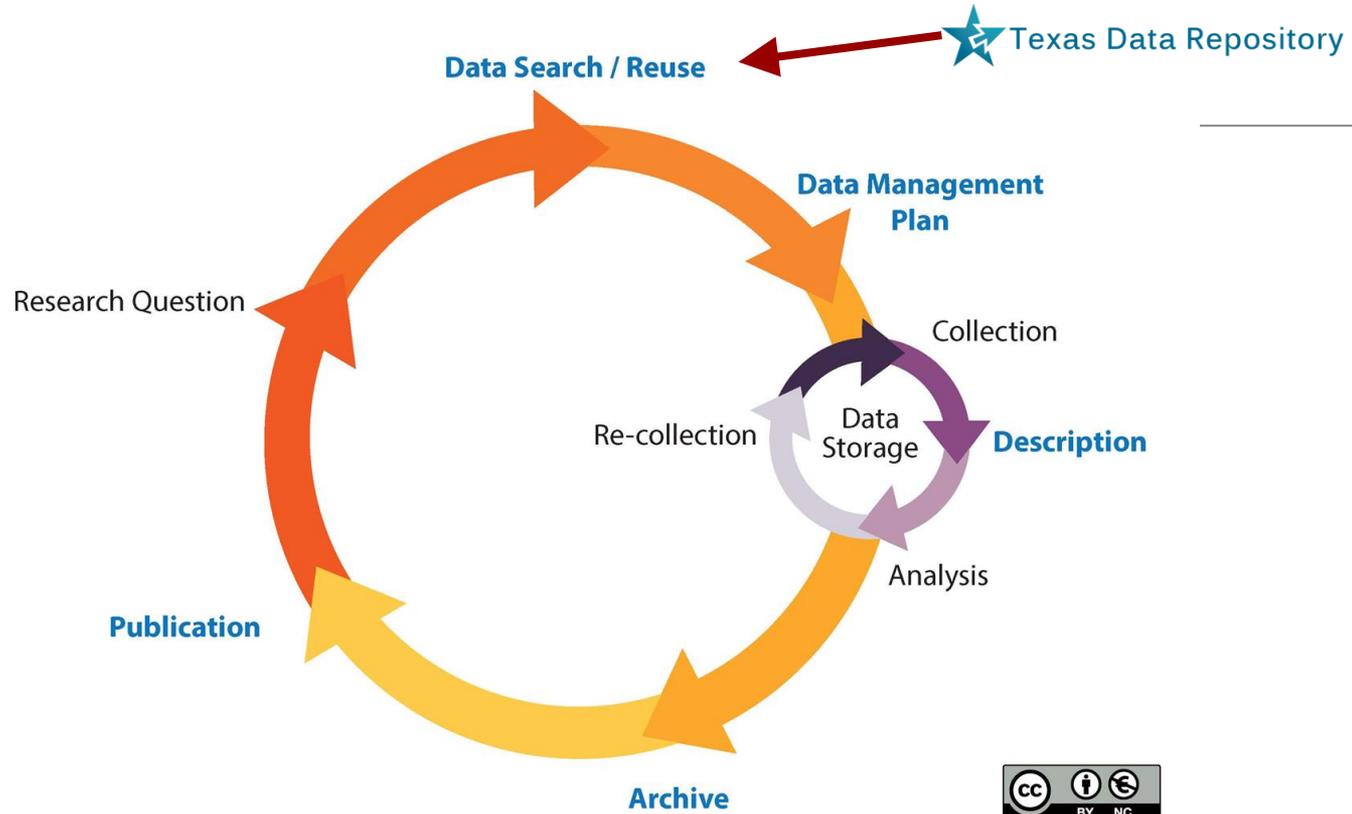
Get Help

Publish and Track Your Data, Discover and Reuse Others' Data!

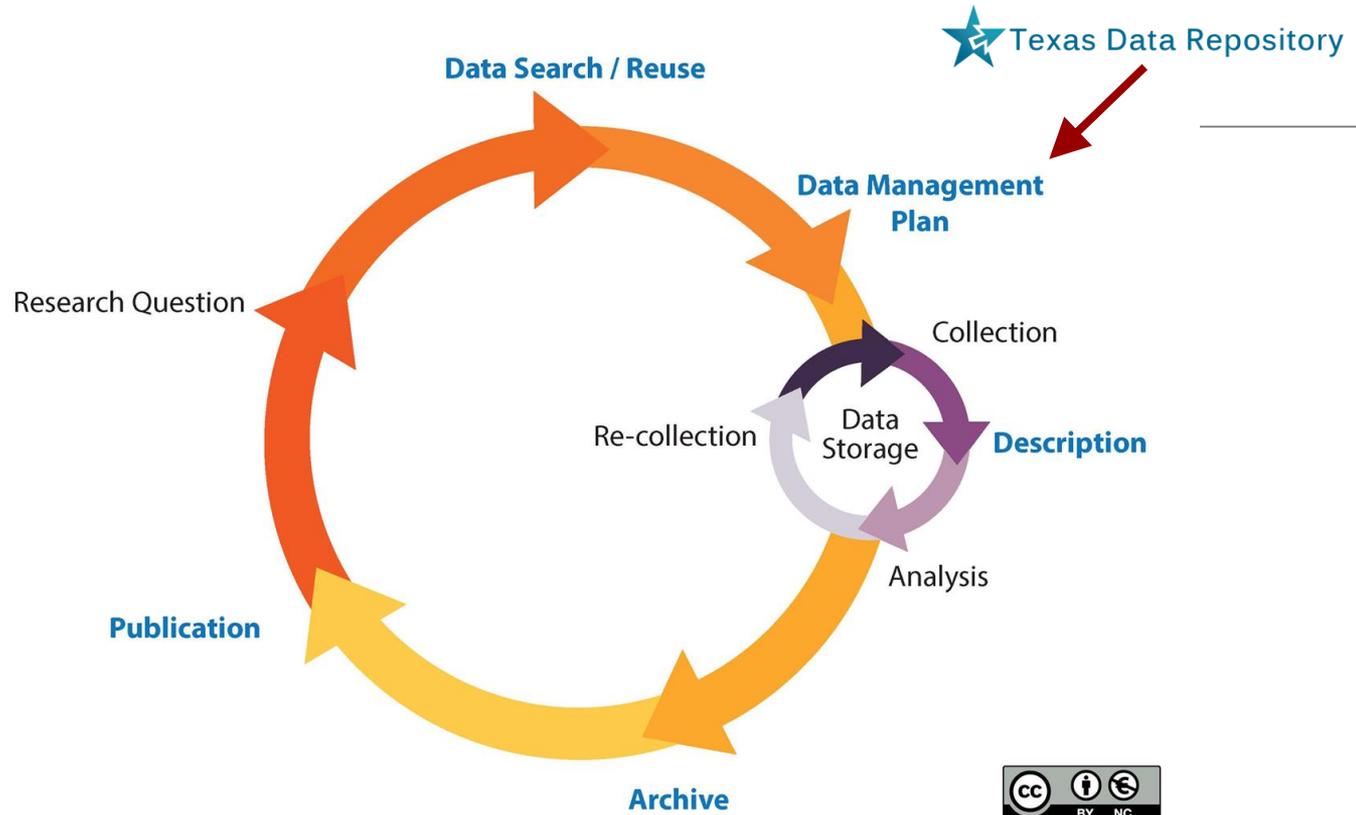
The Research Data Management Lifecycle



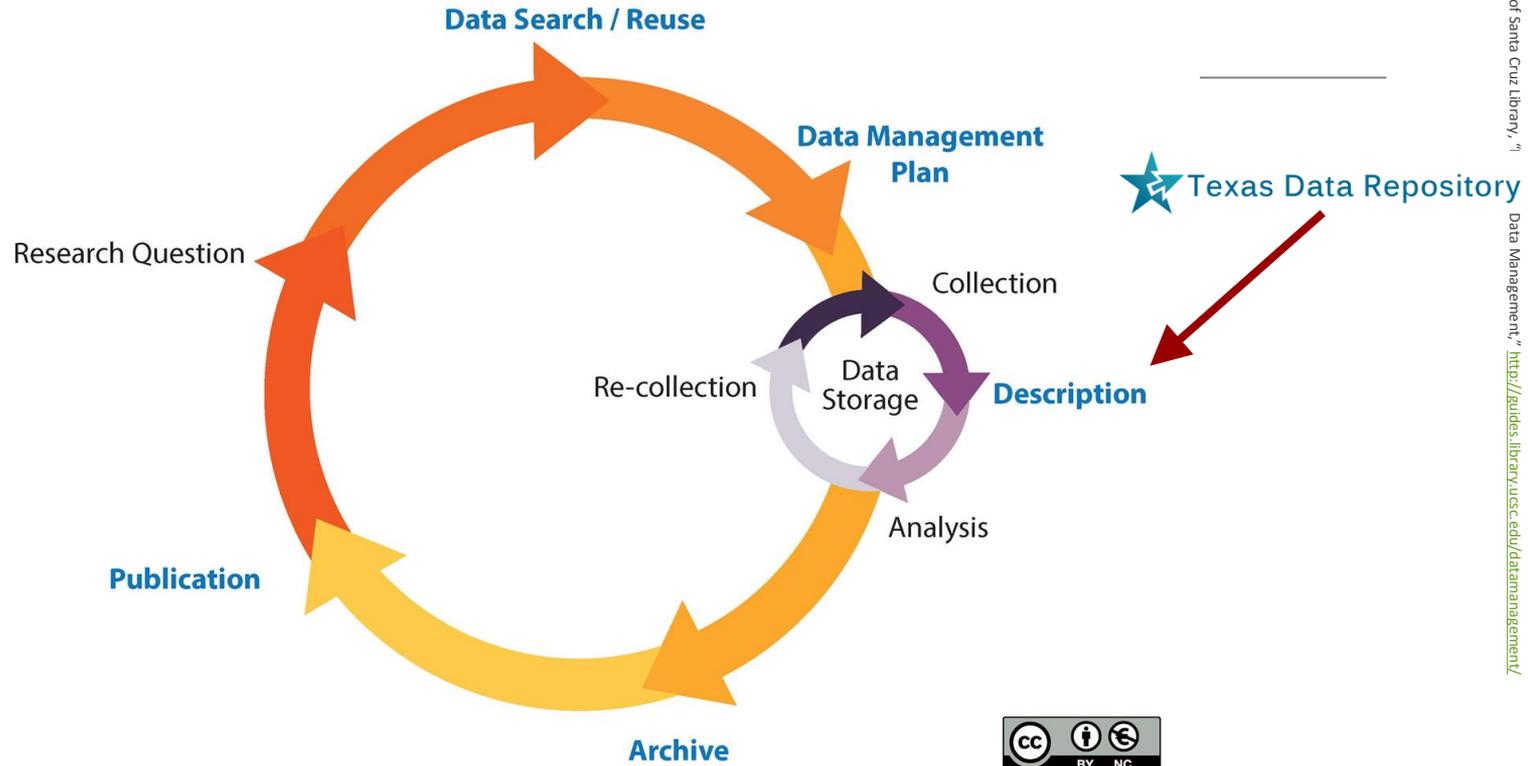
The Research Data Management Lifecycle



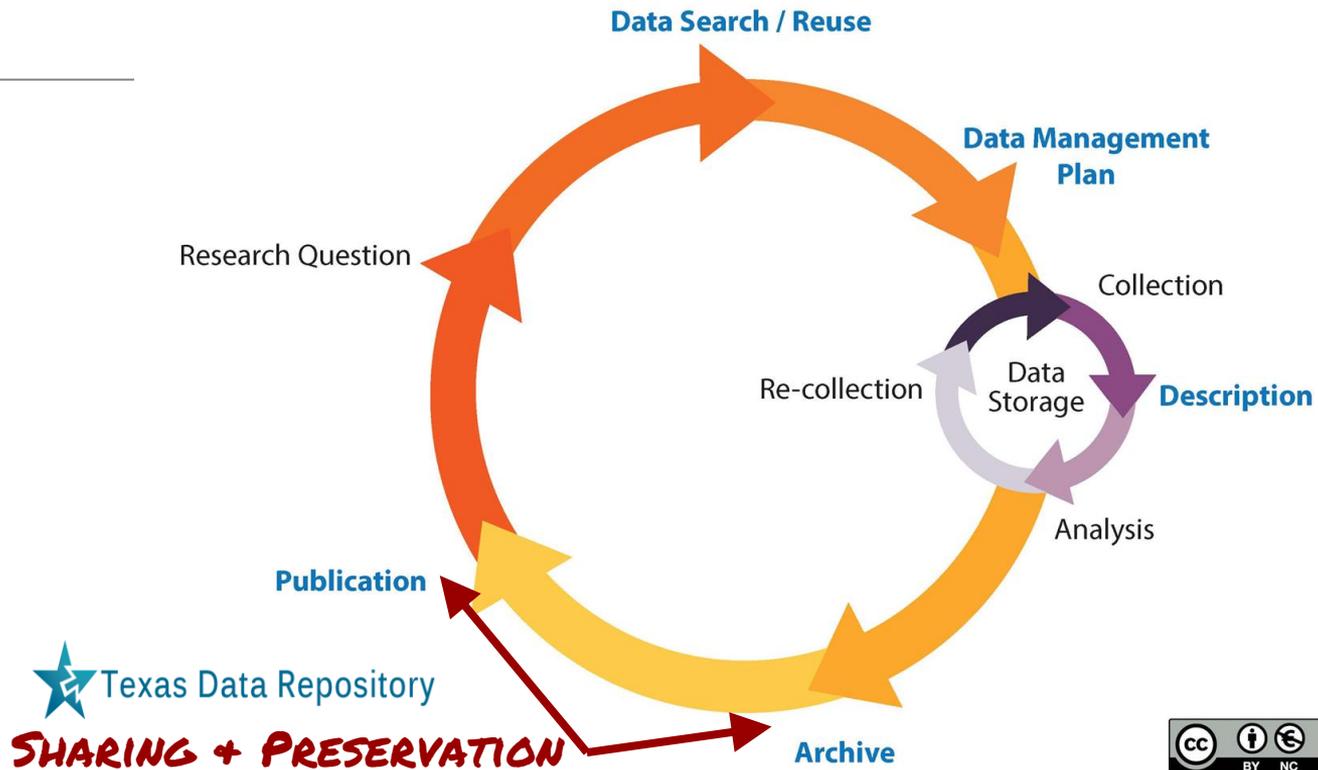
The Research Data Management Lifecycle



The Research Data Management Lifecycle



The Research Data Management Lifecycle



 Texas Data Repository

SHARING + PRESERVATION



Data Sharing and Preservation

Emerging

- Recognizes the benefits of data preservation
- Recognizes the practices, values, and norms of (sub)discipline as they relate to sharing & preserving data

Intermediate

- Is able to distinguish between active data and stored data
- Understands basic definitions & processes in data preservation
- Recognizes benefits & costs of preservation
- Develops understanding of which elements of a dataset are likely to have future value for self and others
- Is able to determine when and how to backup data

Active vs. Stored (Archived) Data



By NSF/Josh Landis, employee 1999-2001 (Antarctic Photo Library, U.S. Antarctic Program) [Public domain], via [Wikimedia Commons](#)

QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA

(final)

NOAA, National Climatic Data Center

Month: 02/2017

Date	Temperature (Fahrenheit)						Degree Days Base 65 Degrees		Sun	
	Max.	Min.	Avg.	Dep From Normal	Avg. Dew pt.	Avg Wet Bulb	Heating	Cooling	Sunrise LST	Sunset LST
1	2	3	4	5	6	7	8	9	10	11
01	82	51	67	14	52	58	0	2	0722	1807
02	64	46	55	2	35	45	10	0	0721	1808
03	53	45	49	-4	35	43	16	0	0721	1808
04	51	47	49*	-4	45	47	16	0	0720	1809
05	72	51	62	9	58	59	3	0	0719	1810
06	78	67	73	20	64	67	0	8	0719	1811
07	86	56	71	17	52	61	0	6	0718	1812
08	87	51	69	15	42	54	0	4	0717	1813
09	68	43	56	2	32	45	9	0	0716	1814
10	79	51	65	11	M	M	0	0	0716	1814
11	86	66	76*	22	63	67	0	11	0715	1815
12	79	66	73	19	60	64	0	8	0714	1816
13	78	63	71	16	56	61	0	6	0713	1817
14	67	47	57	2	46	49	8	0	0712	1818
15	65	43	54	-1	34	45	11	0	0711	1818
16	70	40*	55	0	36	46	10	0	0710	1819
17	77	50	64	9	49	55	1	0	0710	1820
18	86	62	74	18	55	62	0	9	0709	1821
19	81	61	71	15	66	68	0	6	0708	1822
20	70	58	64	8	57	59	1	0	0707	1822
21	82	52	67	11	43	53	0	2	0706	1823
22	87	51	69	13	45	56	0	4	0705	1824
23	90*	55	73	16	49	59	0	8	0704	1825
24	80	54	67	10	M	M	0	2	0703	1825
25	63	44	54	-3	28	42	11	0	0702	1826
26	72	42	57	0	49	54	8	0	0701	1827
27	82	66	74	16	63	66	0	9	0660	1828
28	80	69	75	17	67	69	0	10	0658	1828
	75.4s	53.6	64.5		M	M	3.7	3.4	-----Monthly	
	10.2	8.8	9.5						-----Departure From Normal-----	
Degree Days									Greatest 24-hr Precipitation:	
Monthly Season to Date									Greatest 24-hr Snowfall:	
Total Departure Total Departure									Greatest Snow Depth:	
Heating: 104 -193 778 -559										
Cooling: 95 77 117 90										

Sharing and Preserving data

What are the benefits and challenges of sharing?

When and where should I archive data?
Why should I use a repository?

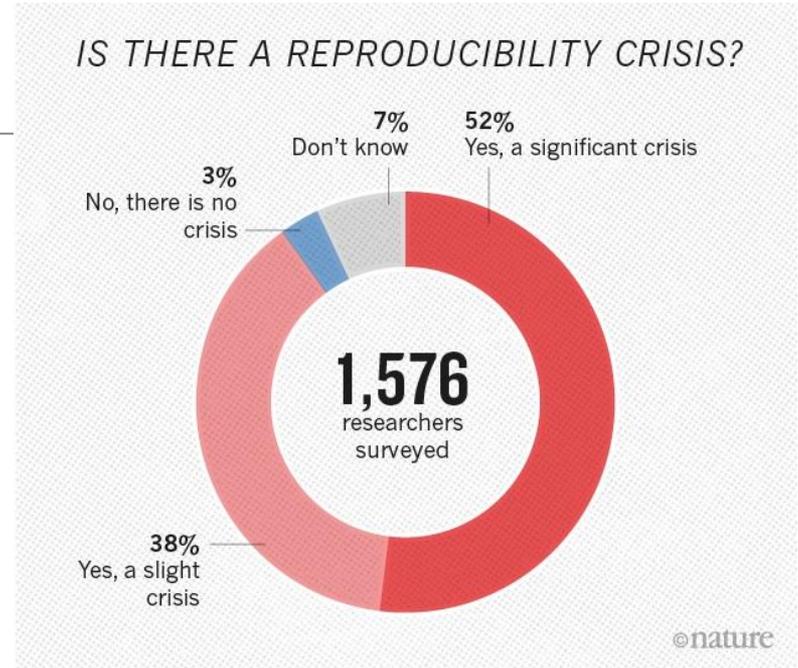
What materials should I archive?

What does a good long-term archiving solution look like?



Why share?

1. Supports the verification and replication of original results
2. Provides teaching resources
3. Reduces cost by avoiding duplicate data collection efforts
4. Enhances the visibility and overall impact of research projects
5. Preserves data for future use
6. Helps the broader community and individual researchers “do better research”



Retrieved from <http://www.nature.com/news/1-500-scientists-lift-the-lid-on-reproducibility-1.19970>

Methods of sharing & publication



https://commons.wikimedia.org/wiki/File:The_Makings_of_a_Modern_Newspaper-_the_Production_of_%27The_Daily_Mail%27_in_Wartime_London_UK_1944_D20461.jpg

- Uploading to a repository
- Submitting with an article
- Including as an appendix/supplement
- Making available on a public website

Why use a repository?

Digital content is fragile.

Websites (especially personal ones) are ephemeral.

- No integrity checking
- Likely not very visible to search engines
- Require upkeep and technological dependencies
- Links may not be persistent

Funding agencies expect it.



What to keep long-term?

Data that can't be replicated (e.g. weather data)

Can be replicated but would be prohibitively expensive

Major discovery

High impact researcher

Raw and final, processed files but not intermediate files

Technical documentation is comprehensive and data is in a format that allows for ease of use and preservation



TDR as an archiving solution

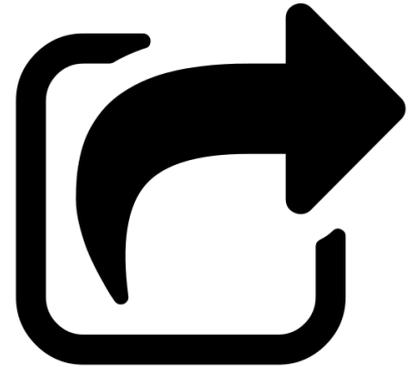
Organizational trustworthiness
Persistent identifiers (DOIs)
Regular backups with replication
Fixity checking
Capture of important preservation metadata (file format, size, fixity information, rights information, and version information)
Rare de-accessioning, with tombstone record left behind



Data Sharing in TDR

Users have the option to:

1. Make data public (Open Data)
2. Publish, but restrict access to files
3. Share unpublished data with a group of collaborators



PUBLISH DATA

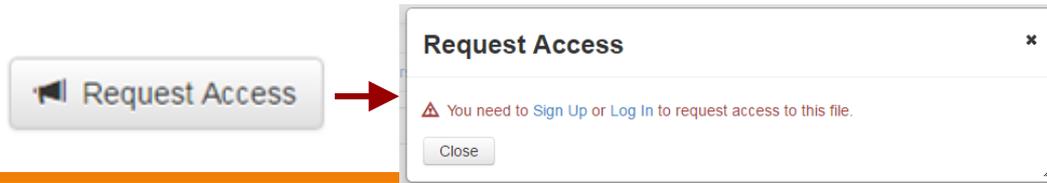
The screenshot shows a user interface for a data repository. At the top left, there is a 'Metrics' section with a bar chart and '5 Downloads'. To the right, there is a row of action buttons: 'Email', 'Link', 'Share', 'Publish', and 'Edit'. The 'Publish' button is circled in red. Below the buttons, the dataset title 'Data from excavations of the Late Roman farmhouse at San Biagio' is displayed with a 'Draft' status. The description reads: 'Institute of Classical Archaeology, 2016, "Data from excavations of the Late Roman farmhouse at San Biagio", doi:10.18738/T8/Q2IT68, Texas Data Repository Dataverse, DRAFT VERSION'. There is also a 'Cite Dataset' button and a link to 'Learn about Data Citation Standards'.

Restricted Access

Researchers can restrict access to files in published datasets.



- The dataset record is public, but access to one or more data files is restricted.
- You can allow users to request access to restricted data files.



Researchers can also create unpublished collections of data and share them with a select group of collaborators.

collection level

dataset level

file level

NOTE

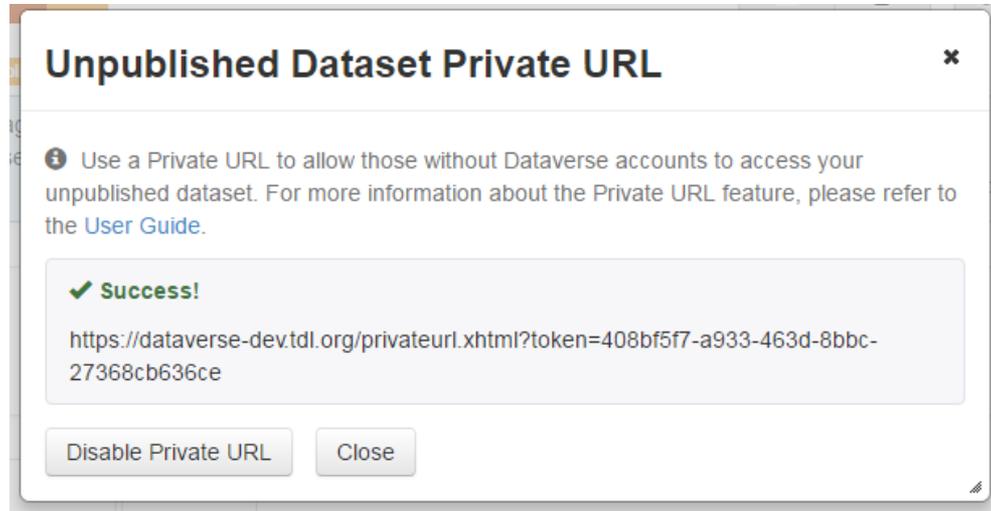
At this time, “collaborators” must have user accounts in the Texas Data Repository - i.e., they must be from a TDR-participating institution.

Easy sharing: Private URL

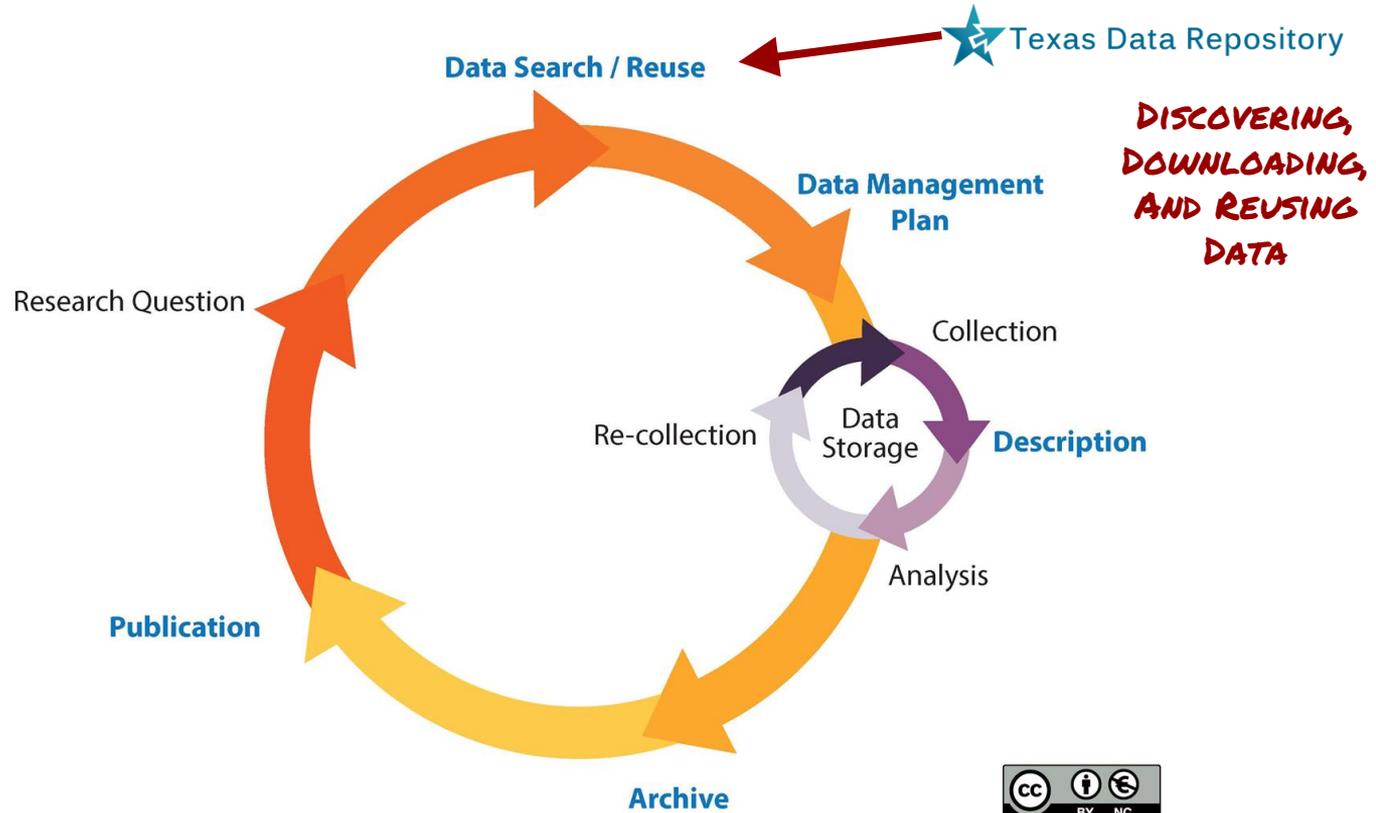
Create a private URL to share your dataset with those who don't have TDR user accounts.

Edit ► Private URL

Click “Create Private URL”



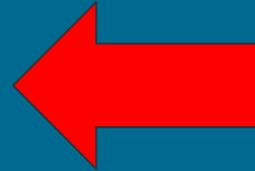
The Research Data Management Lifecycle



Discovery and Acquisition of Data

Emerging	Intermediate	Expert
<ul style="list-style-type: none">Locates and utilizes disciplinary data sources and repositories	<ul style="list-style-type: none">Locates and utilizes disciplinary data sources and repositoriesEvaluates the quality of the data available from external sourcesImports data and converts it when necessary so it can be used locally	<ul style="list-style-type: none"><i>Elements included in the Intermediate stage</i>Is proficient at integrating shared data with locally collected or generated data

Search the Texas Data Repository



Add Data



Explore Data Repository



Learn More



Get Help

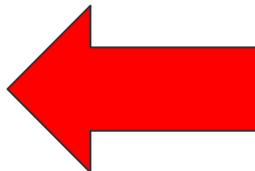
Search the Texas Data Repository



Add Data



Explore Data Repository



Learn More



Get Help

Metrics

65 Downloads



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 (TDL) member institutions.

QUICK LINKS

- [Add data](#)
- [Explore data](#)

LEARN MORE

- [Go to the user guide.](#)
- [Contact a local university librarian for help.](#)



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Dataverse

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Texas Digital Library

Datasets (29)

Files (6)

Files (71)

Dataverse Category

Organization or Institution (20)

Research Project (7)

Research Group (1)

Researcher (1)

Publication Date

2015 (18)

2016 (14)

2017 (3)

Author Name

Institute of Classical Archaeology (2)

Institute of Classical Archaeology (1)

Prieto, Alberto (1)

Surpless, Ben (1)

Wilke, Claus (1)

Subject

Arts and Humanities (8)

Medicine, Health and Life Sciences (3)

Chemistry (2)

Earth and Environmental Sciences (2)

Engineering (2)

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Keyword Term

archaeology (4)

archaeological survey (2)

Classical Archaeology (1)

Greek colonization (1)

Late Roman (1)

[More...](#)

Deposit Date

2016 (5)

2017 (1)

Author Affiliation

The University of Texas at Austin (2)

University of Texas at Austin (2)

Institute of Classical Archaeology (1)

Trinity University (1)

1 to 10 of 35 Results

Sort

testforryan Dataverse (Dataverse.org)
Feb 7, 2017 UT Medical Branch Dataverse

Replication Data for metabolic flux measurements of "The E. coli molecular phenotype under different growth conditions" by Caglar et al.

Jan 27, 2017 - Wilkelab Dataverse

Wilke, Claus, 2017, "Replication Data for metabolic flux measurements of "The E. coli molecular phenotype under different growth conditions" by Caglar et al.", doi:10.18738/T8/UG3TUR, Texas Data Repository Dataverse, V1

Raw GC-MS data for metabolic flux measurements, generated by the Marx Lab at Harvard and Idaho. The data files are meant to be analyzed with the FiatFlux program. The data are described in detail in this preprint: M. U. Caglar, J. R. Houser, C. S. Barnhart, D. R. Boutz, S. M. Car...

Wilkelab Dataverse (University of Texas at Austin)

Jan 26, 2017 University of Texas at Austin Dataverse

Data generated by the research group of Claus Wilke at UT Austin.

Datasets for The Chora of Metaponto 3: Archaeological Field Survey—Bradano to Basento

Dec 1, 2016 - Metaponto Survey Dataverse

Prieto, Alberto, 2016, "Datasets for The Chora of Metaponto 3: Archaeological Field Survey—Bradano to Basento", doi:10.18738/T8/PZ5HOA, Texas Data Repository Dataverse, V6

The four-volume publication, The Chora of Metaponto 3: Archaeological Field Survey—Bradano to Basento, presents approximately half of the results of ICAs systematic, intensive surface survey conducted within the territory (chora) of Metaponto. Nearly six hundred sites, ranging i...

Texas State University Dataverse (Texas State University)

Jul 5, 2016

This is a test of functionality of the TDL dataverse and associated features

The Neolithic Settlement at Capo Alfieri Dataverse (University of Texas at Austin)

May 26, 2016 The Chora of Croton Dataverse

ICAs excavation projects within the Chora of Croton included a remarkably well-preserved Neolithic settlement at Capo Alfieri. The first volume in the Chora of Croton series presents results of excavations conducted there between 1987 and 1990 by the late Jon Morter.

University of Houston Libraries Dataverse (University of Houston)

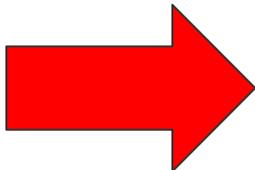
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Spatial extents of ICA projects

May 9, 2016 - Institute of Classical Archaeology Dataverse

Institute of Classical Archaeology, 2016, "Spatial extents of ICA projects", doi:10.18738/T8/ZGS0J3, Texas Research Data Repository Dataverse, V1



Datasets (29)

Files (6)

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Late Roman (1)

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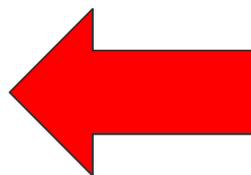
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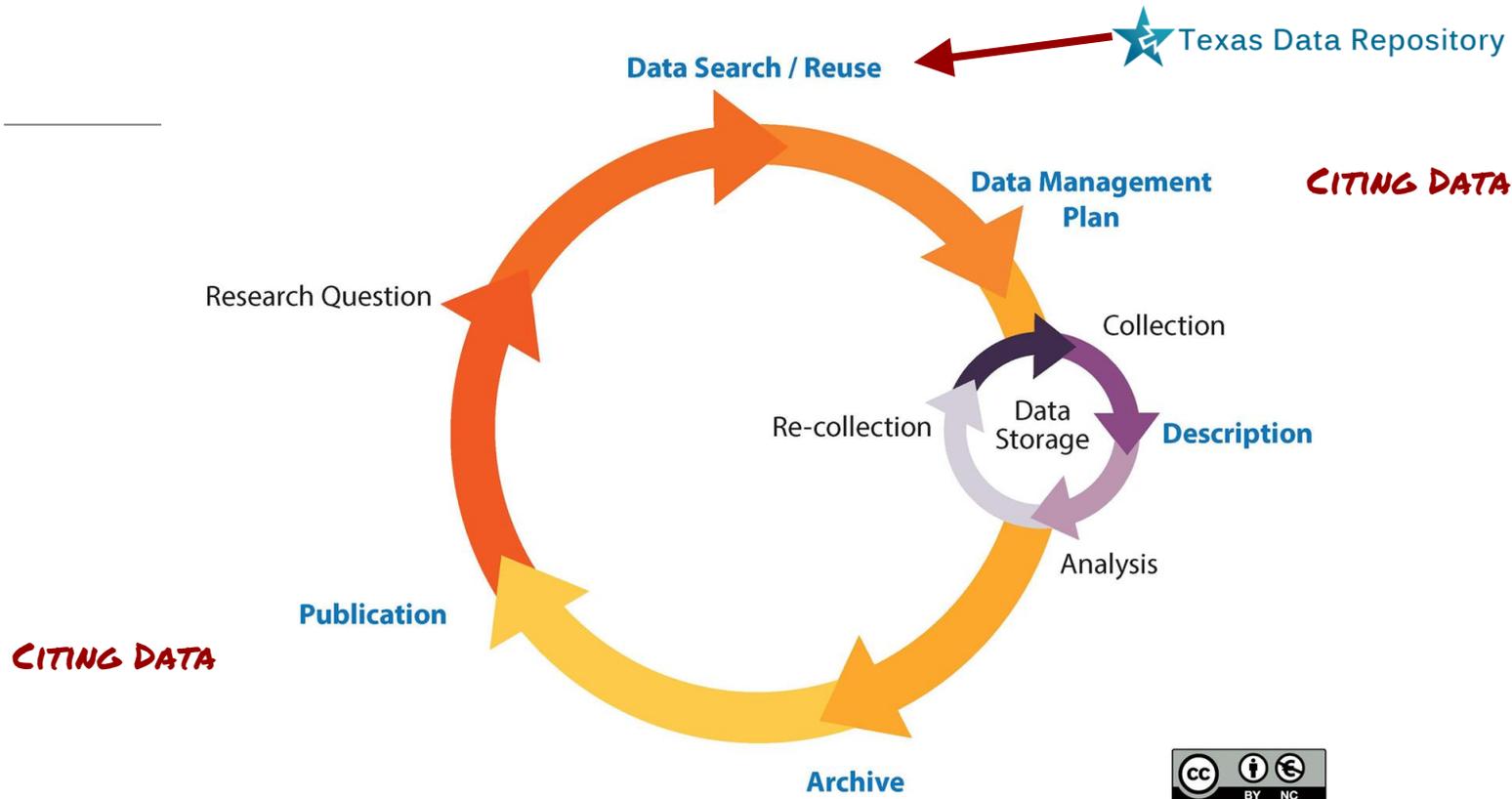
Institute of Classical Archaeology, 2016, "Spatial extents of ICA projects", doi:10.18738/T8/ZGS0J3, Texas Research Data Repository Dataverse, V1



<input type="checkbox"/>	 FF_BULK_14jan2016.xlsx MS Excel (XLSX) - 73.4 KB - May 2, 2016 - 1 Download MD5: 91c5a9bb9a7c01be60a1b401ab748eb0 "Bulk" finds recorded in post-excavation study. This list is a complete inventory of the material collected and later studied as part of the preparation for this publication.	<input type="checkbox"/>	Download
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<input type="checkbox"/>	 FF_Database_metadata_14jan2016.pdf Adobe PDF - 66.2 KB - May 2, 2016 - 1 Download MD5: 4825ee307fc1182d269107dbc7d86b9b Description of tables and relationships between them that are included in this dataset.	<input type="checkbox"/>	Download
<input type="checkbox"/>	 FF_Database_TablesandModules_14jan2016.docx MS Word (docx) - 10.2 KB - May 2, 2016 - 1 Download MD5: 927b35c5847a521ae17b5ae16c52a319	<input type="checkbox"/>	Download
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<input type="checkbox"/>	 FF_LOTS_14jan2016.xlsx MS Excel (XLSX) - 14.0 KB - May 2, 2016 - 1 Download MD5: 7368ce50083f0dcff439e2103c40abd This table contains the complete list of "Lots", which correspond to the field-recorded units of observation. These are either individual finds or collections of finds from a single excavation unit. They are here related to "Contexts" which are a post-excavation grouping of "Lots" based on study of field notes and related finds.	<input type="checkbox"/>	Download
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<input type="checkbox"/>	 <p>FF_Database_metadata_14jan2016.pdf Adobe PDF - 66.2 KB - May 2, 2016 - 1 Download MD5: 4825ee307fc1182d269107dbc7d86b9b Description of tables and relationships between them that are included in this dataset.</p>	<input type="checkbox"/>	Download
<input type="checkbox"/>	 <p>FF_Database_TablesandModules_14jan2016.docx MS Word (docx) - 10.2 KB - May 2, 2016 - 1 Download MD5: 927b35c5847a521ae17b5ae16c52a319</p>	<input type="checkbox"/>	Download
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The Research Data Management Lifecycle



Ethics

Emerging

- **Develops understanding of attribution and reuse**
- Practices citing data
- Develops mindfulness in data ownership and privacy

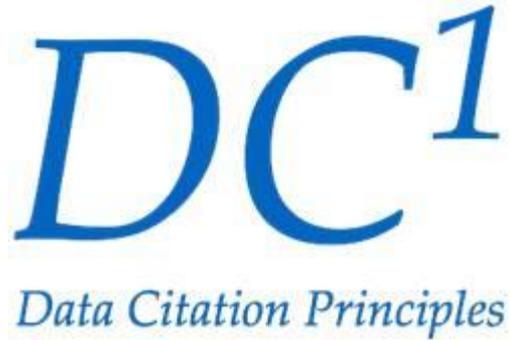
Intermediate

- Understands the ethos of the discipline when it comes to sharing and administration of data
- **Practices citing data**
- Explains attribution and reuse

Expert

- Recognizes the role of IP, privacy, and confidentiality issues
- Creates data sharing agreements for data that cannot be shared w/o stipulations
- Applies best practices for anonymizing data & reducing risk of re-identification of personal info
- **Makes own data citable**

Why Citing Data Matters



Data Citation Principles

Credit and Attribution

Unique Identification

Access

Persistence

Specificity and Verifiability

Force 11, “Joint Declaration of Data Citation Principles,” <https://www.force11.org/group/joint-declaration-data-citation-principles-final>

Stillwell anticline 3D Photogrammetry Dataverse (Trinity University)

[Texas Data Repository Dataverse](#) > [Stillwell anticline 3D Photogrammetry Dataverse](#) >

Replication Data for: Oblique photos of rock outcrops within the Stillwell anticline, west Texas

 Metrics

 1 Download



Replication Data for: Oblique photos of rock outcrops within the Stillwell anticline, west Texas

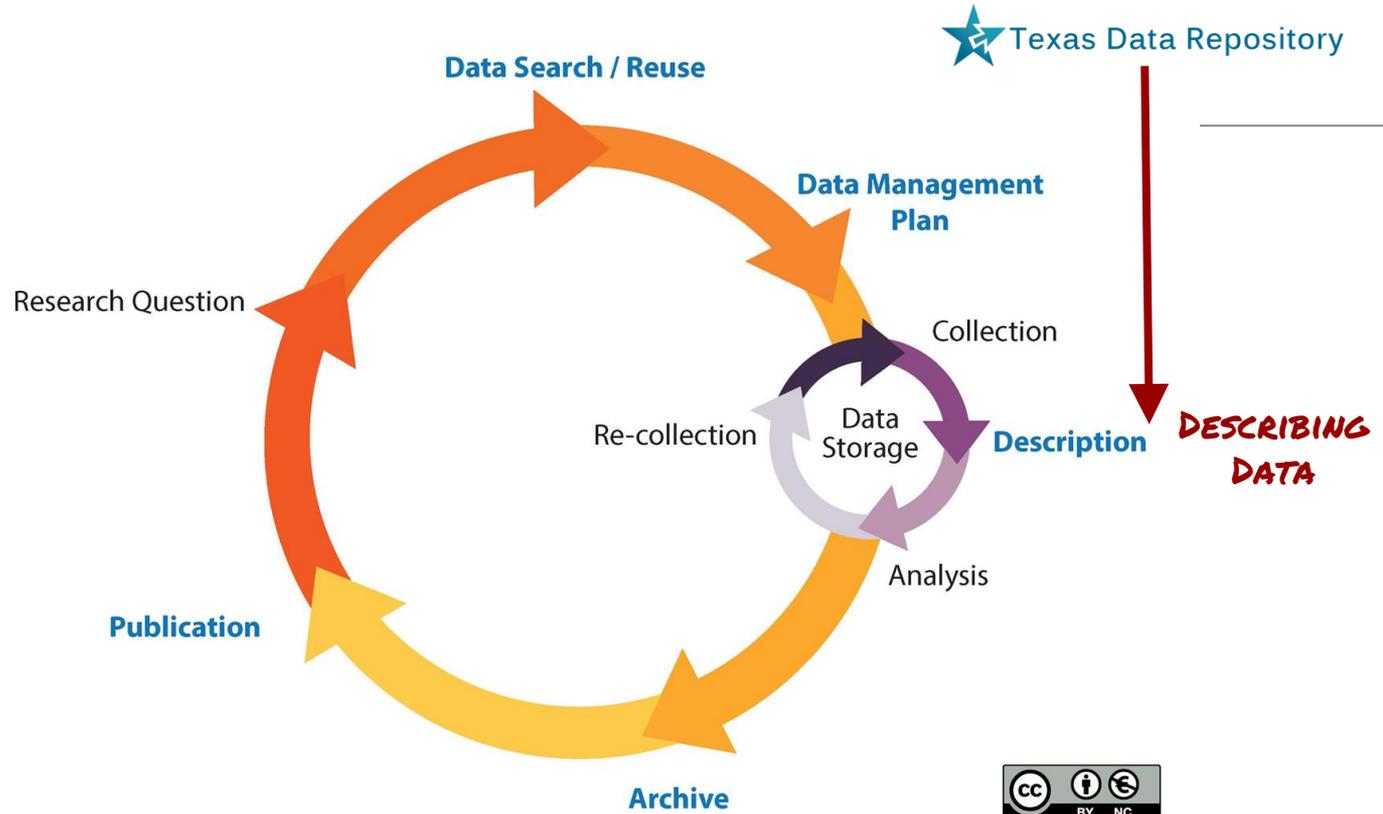
Surpless, Ben, 2016, "Replication Data for: Oblique photos of rock outcrops within the Stillwell anticline, west Texas", doi:10.18738/T8/DQPLIK, Texas Data Repository Dataverse, V1

 Cite Dataset ▼

 [Learn about Data Citation Standards.](#)



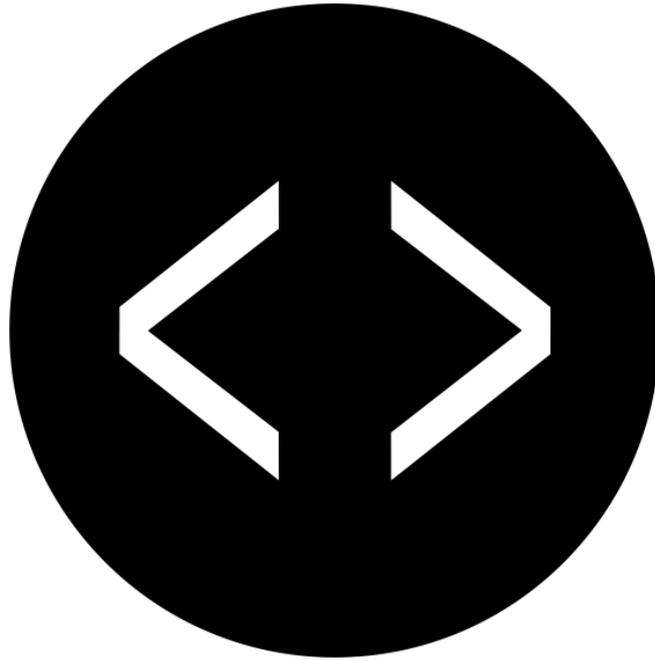
The Research Data Management Lifecycle



Data Description

Emerging	Intermediate	Expert
<ul style="list-style-type: none">• Understands the rationale for descriptive metadata	<ul style="list-style-type: none">• Employs basic descriptive, structural, and administrative metadata• Knows how to capture basic metadata elements• Develops understanding of when and where to deploy metadata	<ul style="list-style-type: none">• Develops structures for customized descriptive, structural, and administrative metadata• Analyzes and interprets metadata from external disciplinary sources• Understands the structure and purpose of ontologies and metadata interoperability in facilitating better data sharing

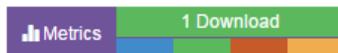
Metadata for research data



Stillwell anticline 3D Photogrammetry Dataverse (Trinity University)

Texas Data Repository Dataverse > Stillwell anticline 3D Photogrammetry Dataverse >

Replication Data for: Oblique photos of rock outcrops within the Stillwell anticline, west Texas



Replication Data for: Oblique photos of rock outcrops within the Stillwell anticline, west Texas

Surpless, Ben, 2016, "Replication Data for: Oblique photos of rock outcrops within the Stillwell anticline, west Texas",
doi:10.18738/T8/DQPLIK, Texas Data Repository Dataverse, V1

 Cite Dataset ▾

 Learn about [Data Citation Standards](#).

Description

Compiled oblique-view digital photos of Site 1 rock outcrops within the Stillwell anticline, west Texas.

Subject

Earth and Environmental Sciences

Keyword

Stillwell

Replication Data for: Oblique photos of rock outcrops within the Stillwell anticline, west Texas

Surpless, Ben, 2016, "Replication Data for: Oblique photos of rock outcrops within the Stillwell anticline, west Texas",
doi:10.18738/T8/DQPLIK, Texas Data Repository Dataverse, V1

 Cite Dataset ▾

 [Learn about Data Citation Standards.](#)

Subject

Arts and Humanities (8)

Medicine, Health and Life Sciences (3)

Chemistry (2)

Earth and Environmental Sciences (2)

Engineering (2)

[More...](#)

Keyword Term

archaeology (4)

archaeological survey (2)

Classical Archaeology (1)

Greek colonization (1)

Late Roman (1)

[More...](#)

Deposit Date

2016 (5)

2017 (1)

Author Affiliation

The University of Texas at Austin (2)

University of Texas at Austin (2)

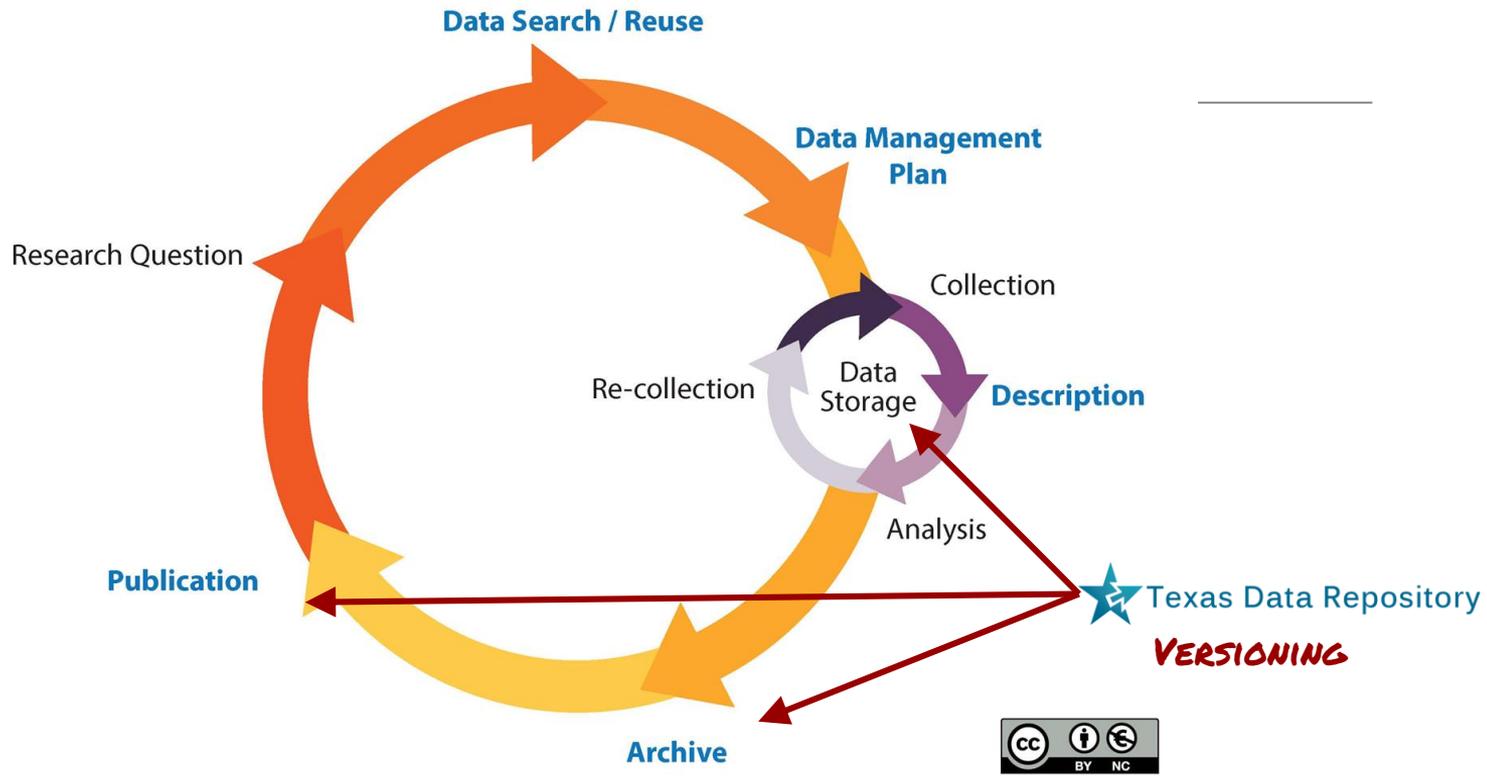
Institute of Classical Archaeology (1)

Trinity University (1)

Geospatial Metadata	Latitude and longitude values; geographic names
Social Science & Humanities Metadata	Unit of analysis, research instrument, population covered
Astronomy and Astrophysics Metadata	Spatial and spectral resolution, fraction of sky, object count
Life Sciences Metadata	Organism, measurement type, technology platform

Geospatial Metadata	DDI Lite, DDI 2.5 Codebook, DataCite, and Dublin Core; Country / Nation field uses ISO 3166-1 controlled vocabulary
Social Science & Humanities Metadata	DDI Lite, DDI 2.5 Codebook, and Dublin Core
Astronomy and Astrophysics Metadata	International Virtual Observatory Alliance's (IVOA) VOResource Schema format; based on Virtual Observatory (VO) Discovery and Provenance Metadata
Life Sciences Metadata	Based on ISA-Tab Specification, along with controlled vocabulary from subsets of the OBI Ontology and the NCBI Taxonomy for Organisms

The Research Data Management Lifecycle



Data Organization & Management

Emerging

- Understands the lifecycle of data
- Develops habits relating to file naming best practices
- **Tracks data provenance and clearly delineates and denotes versions of a dataset**
- Recognizes that data must be prepared for its eventual curation at its creation and throughout its life cycle

Intermediate

- Recognizes the practices, values, and norms of (sub)discipline as they relate to managing data
- Understands the lifecycle of data and develops basic data management plans
- Recognizes the relation of subsets or processed data to the original datasets
- Develops habits relating to file naming best practices
- **Tracks data provenance and clearly delineates and denotes versions of a dataset**
- Recognizes that data must be prepared for its eventual curation at its creation and throughout its life cycle

NEW VERSIONS ARE CREATED WHEN . . .

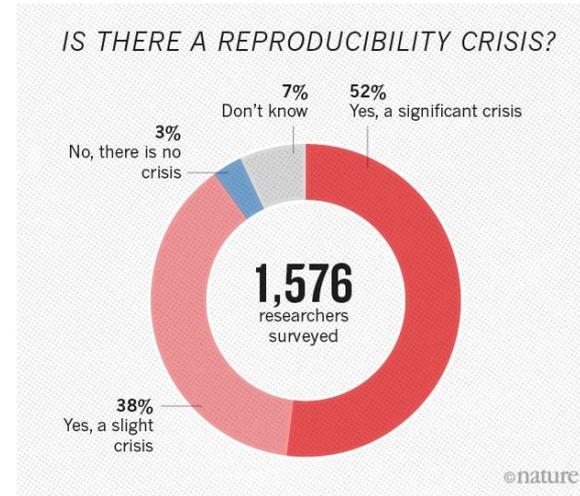
New data is added

Data or metadata is corrected

Raw data is reprocessed

WHY IT'S IMPORTANT TO TRACK VERSION CHANGES . .

Reproducibility Citability



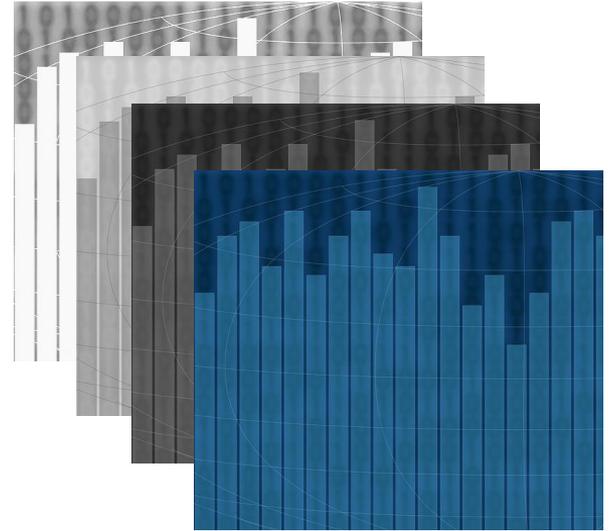
Retrieved from <http://www.nature.com/news/1-500-scientists-lift-the-lid-on-reproducibility-1.19970>

Versions after archiving

Corrections to metadata

Newly processed data

Part of long-term data management plan
(depositing snapshots of data over time)



Versioning data in TDR

A new dataset version is created any time you make changes to the dataset.

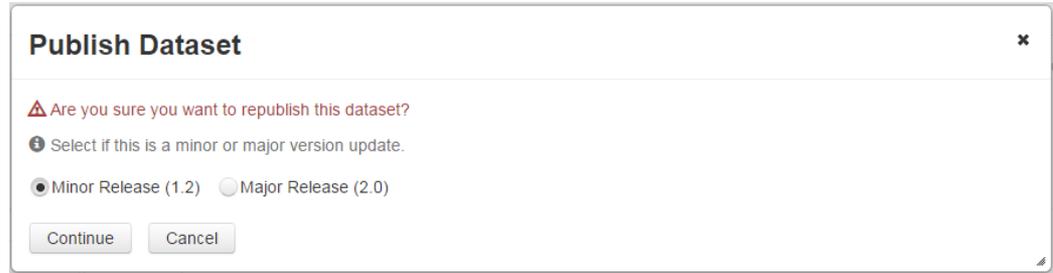
Metadata additions or changes

Addition of files

Deletion of files

Change to terms of use

Older versions are maintained.



Publish Dataset ✕

⚠ Are you sure you want to republish this dataset?

ℹ Select if this is a minor or major version update.

Minor Release (1.2) Major Release (2.0)

Viewing version differences

Files Metadata Terms Versions



View Differences

<input type="checkbox"/>	3.0	Files (Removed: 1); View Details	Kristi Park	October 20, 2016
<input checked="" type="checkbox"/>	2.0	Files (Added: 1; Removed: 1); View Details	Kristi Park	October 20, 2016
<input checked="" type="checkbox"/>	1.2	Additional Citation Metadata: (1 Added); View Details	Kristi Park, Kristi Park	October 20, 2016
<input type="checkbox"/>	1.1	Files (Changed File Metadata: 4); Terms of Use/Access Changed View Details	Kristi Park, Kristi Park	October 20, 2016
<input type="checkbox"/>	1.0	This is the first published version.	Kristi Park	October 19, 2016

Version labelling

DRAFT (unpublished)

1.0 (published)

1.1, 1.2, etc. (minor changes)

2.0, 3.0, etc. (major changes)

IS IT A MAJOR OR MINOR CHANGE?

Metadata changes: TDR will ask whether it's a major or minor version release

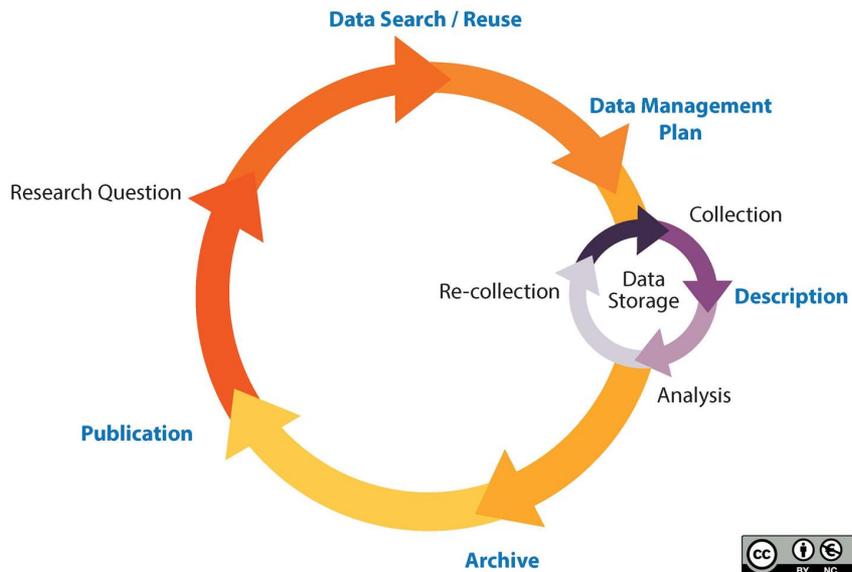
Addition or deletion of files: Automatically a major version change.

Major version changes result in a new citation.

Park, Kristi, 2016, "Employment Status of the civilian population", doi:10.5072/FK2/OSU8YK, Texas Data Repository
TRAINING Dataverse, V3 [UNF:6:iGvqhSWcLqxFM3rNyNgxfA==]



The Research Data Management Lifecycle



WRAPPING UP

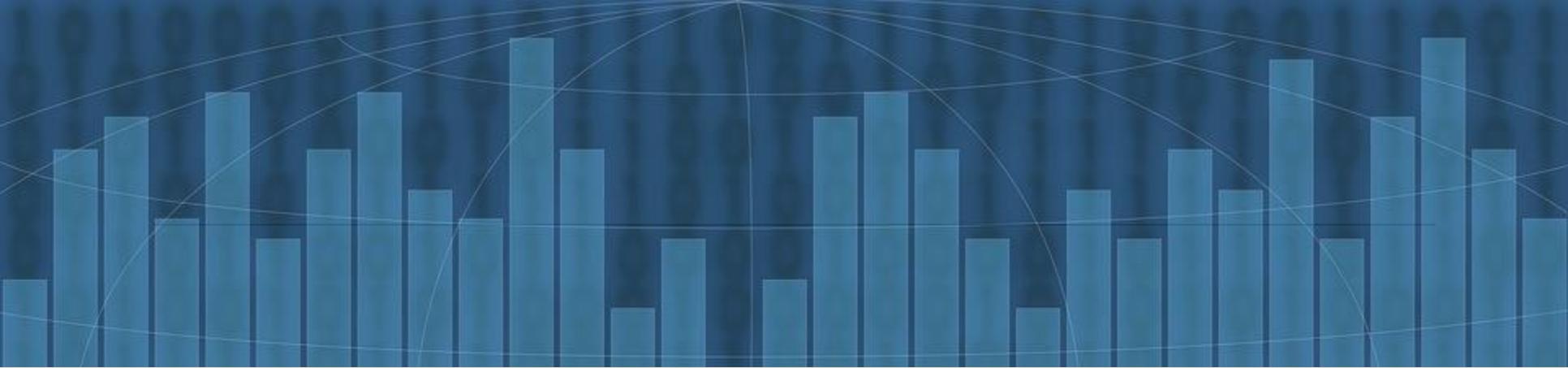
Sharing and Preserving

Discovery/Download/Re-use

Citing (Ethics)

Describing

Versioning (Data Organization & Management)



USE TDR TO DISCUSS DATA MANAGEMENT NEEDS AND OBLIGATIONS WITH RESEARCHERS.

Getting Started with TDR

Submit MOU to TDL

Integrate the system with Shibboleth

Select representative for TDR Steering
Committee

Questions? Contact TDL support@tdl.org

TDL Services Manager: Courtney Mumma

Started February 1st

Managing and promoting digital preservation and research data services including the [Texas Data Repository](#)

TDR Steering Committee - *first meeting coming soon!*



2017 TCDL



May 23-25, Commons Learning Center, Austin, TX

- Early-bird registration deadline: **April 14, 2017**
- Special hotel rates through **April 24, 2017**

<https://conferences.tdl.org/tcdl/>

Texas Data Repository Workshop!

Learn More

[Texas Data Repository](#)

[Texas Data Repository documentation](#)

[Dataverse Workshop slides](#). (from the TDL Data Symposium, November 2016)

Previous webinars:

- Session 1 Recording: <http://hdl.handle.net/2249.1/79231> (“Getting Started with the Texas Data Repository and Data Competencies”)
- Session 2 Recording: <http://hdl.handle.net/2249.1/79234> (“Teaching Data: Developing Data Instruction Using a Multi-Level Competency Model”)
- [“Launching the Texas Data Repository: How to Implement TDR at Your Institution”](#)

TDL Helpdesk: <http://tdl.org/support/helpdesk/>