

Inside Data

Meet NTL Data Services





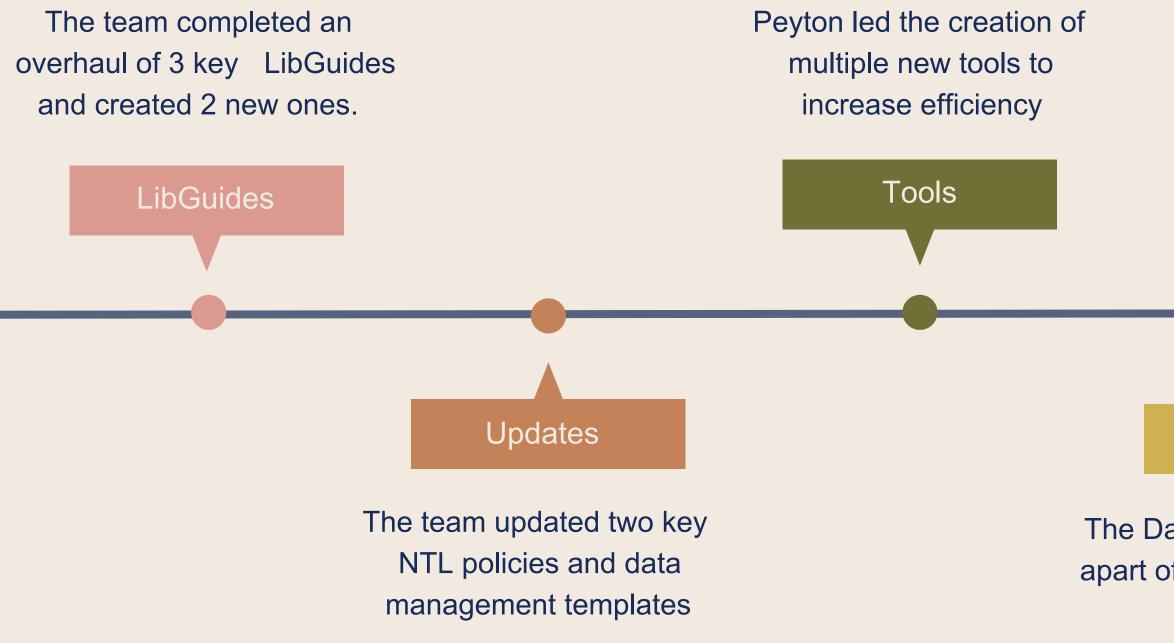
Data Curation Librarian



Peyton Tvrdy

Data Management and Data Curation Fellow

Looking back at 2024







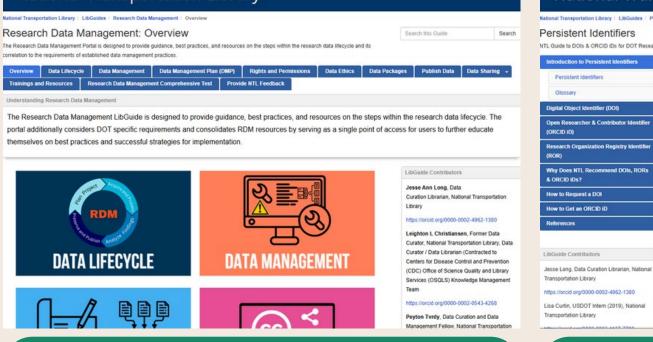


The Data Services team was apart of two publications this year.

United States Department of Transportation

Bureau of Transportation Statistics

National Transportation Library



Research Data Management

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Search this Guide

Persistent Identifiers

NTL Guide to DOIs & ORCID IDs for DOT Resear

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This LibGuide focuses on persistent identifiers (PIDs), with in-depth coverage of Digital Object identifiers (DOIs) & Open Researche and Contributor identifiers (ORCID IDs). This guide's primary purpose is to explain why and how DOT researchers should acquire and use PIDs for themselves and their research.

Search this Guide

What is a Persistent Identifier (PID)?

A PID is a long-lasting digital reference to an object, contributor, or organization, "a code which remains constant as a means of identifying a digital object regardless of changes to its location on the internet" [10]. An "identifier" is "an association between a string (a sequence of characters) and an information resource" [6]. Web URLs are an example of a common identifier. The term "persistent" refers to the need for an identifier to provide continued access to and provenance for the object it refers to for years to come.

The long-term persistence of identifiers for objects, contributors, and organizations is vital to robust data management strategies Publishers, funders, and other organizations have implemented PIDs in their established research workflows to enable the creation of trusted digital connections between objects, contributors, and organizations.

PID is a new name for a concept that has been a part of publishing for decades. In the past publishers used identifiers such as ISBNs and ISSNs to distinguish unique textual objects [8]. However, the proliferation of digitally available research and technical publications has created a need for machine-readable, interoperable PIDs. Machine-readable PIDs such as DOIs and ORCID iDs are valuable assets in enabling information sharing across systems.

See the glossary below for a list of common PIDs and related terms

 FAIR Data Austria: "Persistent Identifier (PID)" In: Research Data Management Open Educational Resources Collection This is a brief course provided by the FAIR Data Austria project as an open educational resource. This PID course is relevant to this LibGuide, however all of the modules are useful and relevant to researchers. The following course also contains a quiz for your review

For the complete course collection, please visit the collection website at: Open Educational Resources Research Data Manage

Persistent Identifiers

Lib Guides

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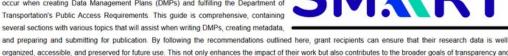
National Transportation Library

SMART Grants: DMP Guidance: Home

National Transportation Library

SMART Grants Data Management Plan Guidance

Guidance page is designed to assist SMART Grant recipients with common issues that occur when creating Data Management Plans (DMPs) and fulfilling the Department of Transportation's Public Access Requirements. This guide is comprehensive, containing The National Transportation Library SMART Grants Data Management Plan several sections with various topics that will assist when writing DMPs, creating metadata,



organized, accessible, and preserved for future use. This not only enhances the impact of their work but also contributes to the broader goals of transparency and reproducibility in scientific research. The Data Management Plans you create here will be the roadmap for your project and ensure your outputs follow Department of Transportation Requirements.

Use the Navigation Buttons below to quickly navigate this guide.

SMART Grants DMP Guidance

United States Department of Transportation

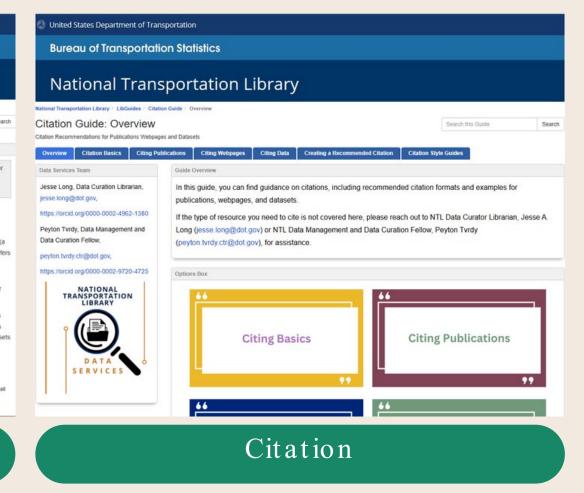
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NTL CoreTrustSeal Requirements Supplementary information, links and documents for NTL's CoreTrustSeal application How to Use This Document mation & Context (R0) This LibGuide contains the full do qualifications for Core Trust Seal tructure (R01-R06) This LibGuide is organized accor Digital Object Management (R07-R13) (https://doi.org/10.5281/zenodo. formation Technology & Security (R14

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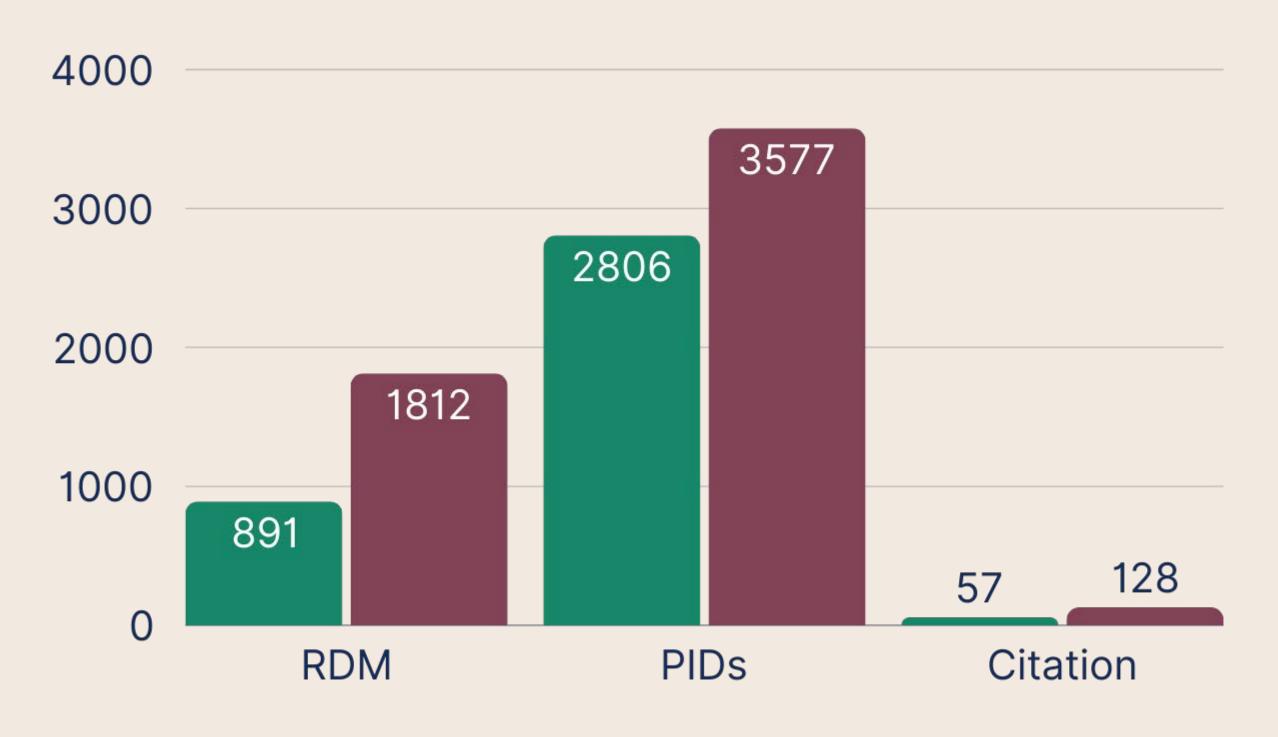
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Core Trust Seal

2023 VS. 2024

Comparing our LibGuide statistics:

We see these statistics as a demonstration of how effective we have been with the updates and increased outreach and guidance within the transportation research community.



- Core Trust Seal 2024 = 236

• SMART Grants: DMP Guidance 2024 = 48

What We Updated



Policies

National Transportation Library's Collection Development and Maintenance Pulicy for the Republicity and Open Science Access Parts (ROSAP) "reaso in-reaso 200

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National Transportation Library's Collection Development and Maintenance Policy for the Repository and Open Science Access Portal (ROSA P)

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Templates & Guidance

Templates

- Data Management Plans (DMPs) The SOS subgroup on Data Management and Repository Standards an output aimed at the harmonization of federal Data Management Plans (DMP), which I reviewed and implemented to ensure our DMP Template aligns with this effort.
- READMEs (.txt and .md format) Added new elements to enhance these documents and ensure all needed information is being captured and shared.
- Data Package Guidance
 - This guidance hadn't been updated since roughly 2018.
- Creation of a Program-Office Level DMP Template
- Creation of a guidance document for writing a successful Program-Office Level DMP.

Tools

DOI Parser Program

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This program allows us to easily update, mint, and reserve our DOIs by simply running the program and pulling information from a spreadsheet. This took multiple steps and systems involved all down to one.



We can now create multiple README files at a given time by using a simple CSV template that the program will read and format into the desired Markdown file type. This is especially useful when working with legacy datasets that have multiple years.



We can now create multiple DCAT -US files at a given time by using a simple CSV template that the program will read and format into the desired JSON file type.

DCAT-US Form Generator

DCA	T-US Version 1.1 JSON Generator
	DCAT-US Generator Project on GitHub
	Title:
	Title
	Description or Abstract:
	Description

Allows for easy creation of US-DCAT v. 1.1 metadata files that are required alongside all datasets.

This tool can be found within the RDM LibGuide.

Automated README Generator

Automated DCAT - US Generator

Publications

		2	
OpenRefine Primer			Ounited States
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	Manual or Documentation		
/iew/Download File	Abstract		
OpenRefine Primer.pdf (2.09 MB)	The purpose of this primer is to describe and demonstrate useful features and aspects of the		
Persistent link to this item	OpenRefine software and help data curators understand how they can use OpenRefine as a part		
https://hdl.handle.net/11299/264444	of the data curation process. This document is meant to serve as a starting point for data cura-		

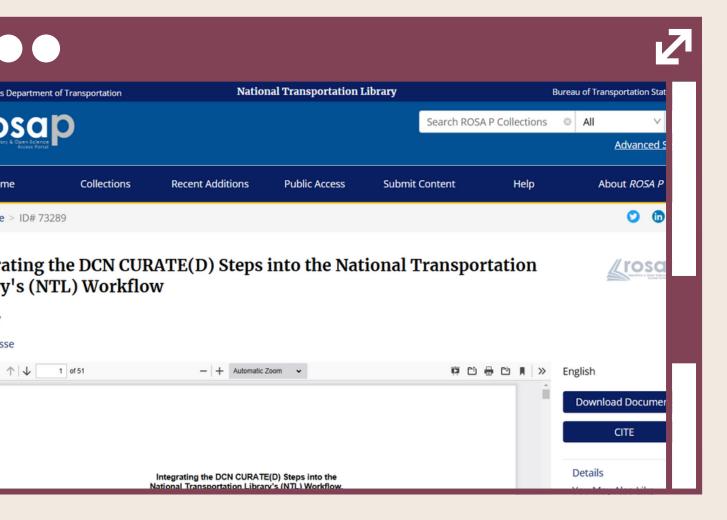
Peyton Tvrdy, working with the Data Curation Network, was a publishing author on their Open Refine Primer. This Primer also served as her final project for her Data Stewardship Certification Course which she completed in June 2024.

The purpose of this primer is to describe and demonstrate useful features and aspects of the OpenRefine software and help data curators understand how they can use OpenRefine as a part of the data curation process.

https://hdl.handle.net/11299/264444

The Data Services Team published a public version of their newly implemented CURATE(D) Steps workflow. The have just completed their first year with the workflow fully implemented and have already seen multiple improvements and benefits from it.

The goal is to offer a case study experience on how NTL was able to implement the Data Curation Network (DCN)'s CURATE(D) Steps into their workflow and hopefully provide guidance that can assist others as they seek to do the same at their own institutions.



https://doi.org/10.21949/1530073

Core Trust Seal Certification

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Bureau of Transportation	n Statistics						
National Transportation Library							
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How to Use This Document	multifications for Carol Conditional and American						
Background Information & Context (R0) Organizational Infrastructure (R01-R06) -							
Digital Object Management (R07-R13) - Information Technology & Security (R14 - R16)	This LibGuide is organized according to the CoreTrustSeal Trustworthy Data Repositories Requirements (https://doi.org/10.5281/zenodo.7051012).						
Last Updated: Oct 16, 2024 12:05 PM URL: https://transportation.libguides.com/CTS Print Page			in to LibApps ort a problem				





Our Original Application was submitted on July 8, 2024



We were notified of revisions required on October 10, 2024

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We submitted our revisions on October 22, 2024

Feel free to reach out with any questions:

- Jesse Long: jesse.long@dot.gov
- Peyton Tvrdy: peyton.tvrdy.ctr@dot.gov

Thank You