

In this TLR, staff from the National Transportation Library (NTL) introduce their new digital repository, the Repository and Open Science Access Portal, affectionately known as ROSA P.

ROSA P will replace the existing NTL repository. But before that can happen, the NTL staff would like show off the look and feel of ROSA P to the transportation library community. Plus, the NTL staff invites users of ROSA P to participate in testing the new software during this soft launch phase. Details on how to become a volunteer user-tester will be given during the TLR.

Introducing ROSA P

The National Transportation Library's New Digital Repository

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About NTL

Established in 1998, we provide access to:

- Digital collections
- Data services
- Reference and research services
- Networking



Transportation Equity Act for the 21st Century (1998)

"(e) NATIONAL TRANSPORTATION LIBRARY.—

"(1) IN GENERAL.—The Director shall establish and maintain a National Transportation Library, which shall contain a collection of statistical and other information needed for transportation decisionmaking at the Federal, State, and local levels.

"(2) ACCESS.—The Director shall facilitate and promote access to the Library, with the goal of improving the ability of the transportation community to share information and the ability of the Director to make statistics readily accessible under subsection (c)(5).

"(3) COORDINATION.—The Director shall work with other transportation libraries and other transportation information providers, both public and private, to achieve the goal specified in paragraph (2).



MAP-21 & NTL (2012)

National Transportation Library functions:	
☐ Services to DOT, other Federal agencies, public and private organization	ions, and
individuals within the U.S. and internationally	
☐ Set specific requirements for the NTL Director's position	
☐ Acquire, preserve and manage transportation information and in	formation
products and services for use by DOT, other Federal agencies, and	l the public
☐ Provide reference and research services	
☐ Central repository for DOT research results and technical publications	3
☐ Central clearinghouse for transportation data and information of	the Federal
Government	
☐ Serve as coordinator and policy lead for transportation information ac	cess
☐ Coordinate among and cooperate with multiple external parties to dev	elop a
"comprehensive transportation information and knowledge network"	to support the I-
XI list [information required of BTS at 49 USC 6302((b)(3)(B)(vi)]	
☐ Publicize, facilitate and promote access to information products and se	ervices
☐ Receives contract, grant and agreement authority to support these goa	ls

Public Access: The Vital Role of NTL

 February 22, 2013 – The White House Office of Science and Technology Policy released a memorandum requiring all Executive Departments and Agencies spending more than \$100 million/year on R&D to ensure public access to peerreviewed publications and digital datasets arising from federally-funded scientific research

More information:

https://www.whitehouse.gov/sites/default/files/microsites/ostp/ostp_public_access_memo_2013.pdf

EXECUTIVE OFFICE OF THE PRESIDENT OFFICE OF SCIENCE AND TECHNOLOGY POLICY

February 22, 2013

MEMORANDUM FOR THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES FROM: John P. Holdren July
Director

SUBJECT: Increasing Access to the Results of Federally Funded Scientific Research

1. Policy Principles

The Administration is committed to ensuring that, to the greatest extent and with the fewest constraints possible and consistent with law and the objectives set out below, the direct results of federally funded scientific research are made available to and useful for the public, industry, and the scientific community. Such results include peer-reviewed publications and digital data. Scientific research supported by the Federal Government catalyzes innovative breakthroughs that drive our economy. The results of that research become the grist for new insight and are assets for progress in areas such as health, energy, the environment, agriculture, and national security. Access to digital data sets resulting from federally funded research allows companies to focus data underprins the forecasting industry, and making genome sequences publicly available has

NTL Digital Repository and Services

- Digital Repository
 - Purpose: serve as central clearinghouse and archive for public access transportation information
 - 50,000+ items
 - Special features: access to specialized collections and integration of USDOT repositories in our platform
 - · Volpe Reports
 - Directory of Transportation Data Sources
 - NHTSA Behavioral Safety
 - · ITS JPO Electronic Library
 - Services: digitization activities, preservation & ensuring perpetual access; permanent URLs, links incorporated into TRID records
- NTL Digital Repository: http://ntlsearch.bts.gov/repository/index.do
- ROSA-P: https://rosap.ntl.bts.gov/



NTL Digital Repository Migration

Current

- Homegrown OAI-PMH compliant repository (Open Archives Initiative Protocol for Metadata Harvesting)
- · In-house hardware
- · Modified Dublin Core metadata
- Indexed by popular search services Google and Bing
- Self governance using OAIS model

ROSA P

- · Open source platform
 - CDC Stacks platform (Islandora/Drupal/Fedora)
- Cloud storage stable and responsive
- Revised metadata accommodates public access documents and linked open data
- Additional indexing by Google Scholar
- DOIs minted for every report and dataset in NTL repository – persistent, uniquely identifies each object
- Compliance with core trustworthy repository requirements (ISO 16363) via self-audit and peer review



New Partnerships









Roles and Responsibilities

- Relationship with CDC
 - NTL is responsible for content, including metadata
 - CDC provides SaaS, responsible for product enhancements and bug fixes
- NTL will collect user feedback and evaluate for change
- Stacks change control meetings
 - Organized by CDC
 - NOAA and NTL





Other Digital Initiatives

Next 6 months:

- NTL website homepage and policy documents migrating to drupal platform
- Implementation of LibGuides for general information, resources (transportation websites, research tools), and NTKN



Behind the Curtain

- Metadata
 - NTL Minimum Cataloging Standard
 - Crossing walking to CDC Stacks
- Collection Development Policy Revisions
- Cataloging Policy
- Data Curation Policy
- Submission Process
- Persistent Identifiers for People and Things
- Feedback
- Improvements to Come



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Behind the Curtain: Metadata

NTL Minimum Cataloging Standard

- April 2016
- OCLC K-Level
- Modified Dublin Core

Title

Primary URL

Personal Creator(s)

Corp. Creator(s)

Corp. Contributor(s)

TRT Terms

Corp. Publisher

Publication Date

Format

Resource Type

Language(s)

Geographical Coverage

Abstract

Contract Number(s)

Report Number(s)

Collection(s)



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Behind the Curtain: Metadata Crossing walking to CDC Stacks **CDC Field Names NTL Field Names** Title Title Alternative Title Alternate title Description Abstract **Content Notes Table of Contents** Subject Classification Personal Author(s) Personal Creator(s)/Contributor(s) Corporate Author(s) Corp. Creator(s)/Contributor(s) **Document Type** Resource Type **Published Date** Publication date Main Document URL or Filename Primary URL

Behind the Curtain: It's the Law

Among other national library program duties, the National Transportation Library is required by law to

- (1) Acquire, preserve and manage transportation information and information products and services for use by DOT, other Federal agencies, and the public;
- (2) Serve as a central digital repository for DOT research results and technical publications; and
- (3) Become a central clearinghouse for transportation data and information of the Federal Government (49 USC 6304).

NTL's Repository and Open Science Access Portal, or ROSA P, is the digital library for transportation information and data.



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Behind the Curtain: Collection Dev

Collection Development Policy Revisions

- To meet legislative mandate, NTL collects across transportation: USDOT, state DOTs, and other transportation organizations
- Content types found in ROSA P include text, links to websites, datasets, images, video, other multimedia, and maps
- All resources in ROSA P are in the *public domain* and/or permission provided
- · Materials dating back to 1992
- · Datasets:
 - 1) discrete datasets produced by USDOT
 - 2) links to datasets resulting from USDOT-funded research, and
 - 3) high-value, discrete, national-level datasets produced by non-DOT organizations
- All items are held permanently in ROSA P (4 exceptions)



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Item is wrong and causing harm;

Item has been withdrawn from the scientific community due to methodological errors or willful misrepresentation;

Item contains personally identifiable information, national security, or other sensitive information not previously discovered by NTL staff; or,

Contributor misrepresented their authorship of, or rights over, an item.

Behind the Curtain: Cataloging Policy

- Cataloging Policy
 - Revised in April 2016
 - Will be made public within ROSA P



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Behind the Curtain: Digital Curation Policy

- Preserve all digital information at the bit level
- Fully described to foster discovery, access, and re-use
- Digital object identifiers (DOI)
- SHA-2 Fixity Checksum (coming version)
- Back-ups: 3-2-1
- Format Migration: annual review of formats
- Trusted Digital Repository Status



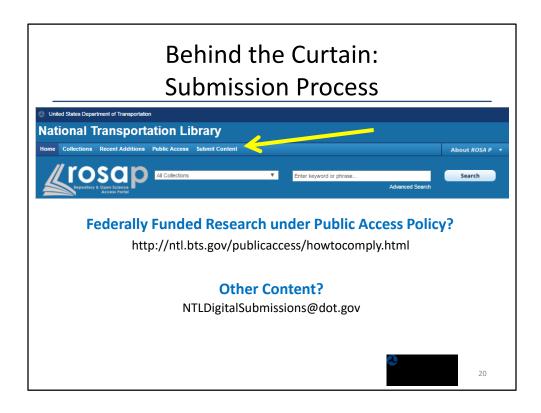
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Preservation and Backups

In order to protect digital information and data from loss, NTL employs the "3-2-1" backup rule². This means that NTL will maintain three (3) copies of the electronic files ; stored on two (2) different kinds of storage media; with at least one (1) copy stored offsite.

Data Seal of Approval and Peer Federal agency review

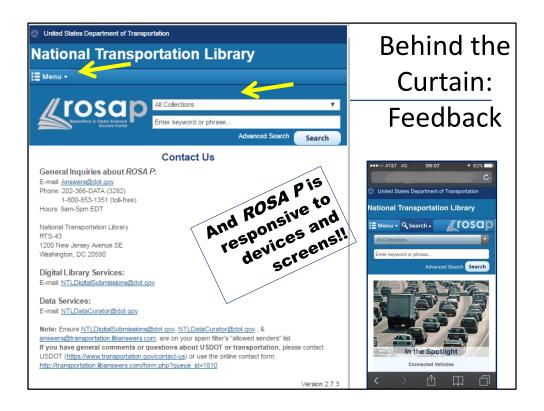


Behind the Curtain: Persistent IDs

- Persistent Identifiers for People and Things
 - DOIs to our landing pages: 1 URL FOREVER!
 - ORCiDs for creators
 - Future: FundRef IDs for funding orgs?



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The Future

- Improvements to Come
 - Fixity hash
 - Trusted repository status
 - Change Control Board
- User testing (TBD)
- Public Launch (TBD)



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Mary

Questions or comments?

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