

Introducing ROSA-P: The National Transportation Library's Repository and Open Science Access Portal

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US DOT National Transportation Library

Federal Depository Library Conference Arlington VA October 17, 2017

ROSA-P Repository and Open Science Access Portal <u>https://rosap.ntl.bts.gov/</u>



By http://www.loc.gov/rr/print/list/083_afr.html#ParksR, Fair use, https://en.wikipedia.org/w/index.php?curid=3034067

Office of the Assistant Secretary for Research and Technology

About NTL

Established in 1998, we provide access to:

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

We are an **open access** digital repository. All items are in the **public domain** and available for reuse **without restriction**.



NTL Mandates

• Transportation Equity Act for the 21st Century (1998)

 "establish and maintain a National Transportation Library, which shall contain a collection of statistical and other information needed for transportation decision making at the Federal, State, and local levels."

• MAP-21 (2012)

- Acquire, preserve and manage transportation information and information products and services for use by DOT, other Federal agencies, and the public
- Central repository for DOT research results and technical publications
- Central clearinghouse for transportation data and information of the Federal Government
- White House Office of Science and Technology Policy memo (2013) requiring all Executive Departments and Agencies spending more than \$100 million/year on R&D to ensure public access to peer-reviewed publications and digital datasets arising from federally-funded scientific research



NTL Digital Repository and Services

- Digital Repository
 - Purpose: serve as central clearinghouse and archive for public access transportation information
 - 32,000+ items
 - Special features: access to specialized collections
 - 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



https://rosap.ntl.bts.gov/

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NTL Digital Repository Migration

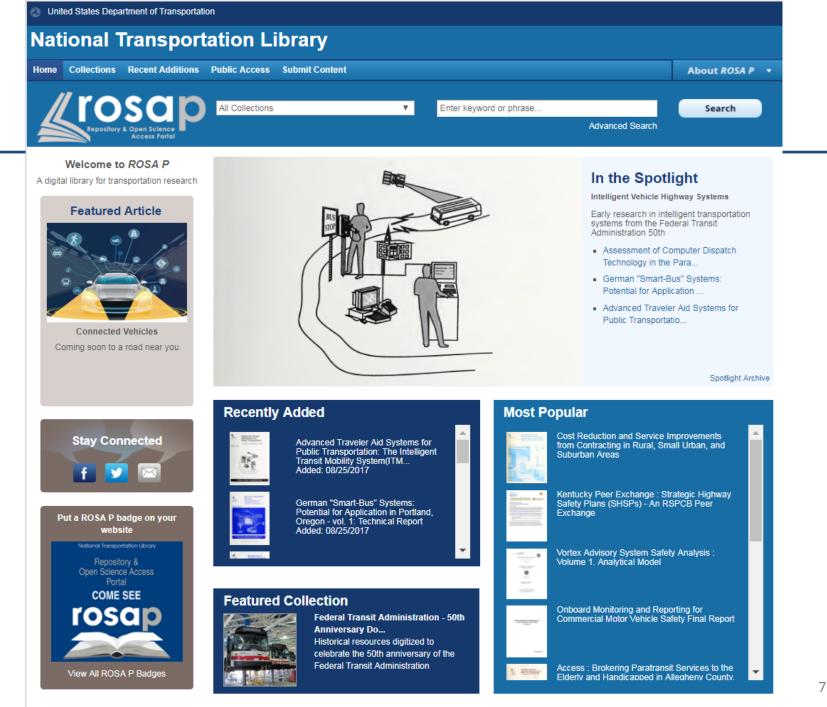
Current

- 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





Collection Policy

- NTL collects and maintains significant research and statistical publications in its Digital Repository
- Resources in the collection have value to federal, state, and local transportation decision makers, transportation analysts, and researchers

Cataloging Policy

- NTL records are structured around a modified Dublin Core metadata schema. A minimal cataloging standard was adopted in 2013 that satisfies OCLC K-level standard.
- Drivers
 - Searchable full text repository
 - Reduced staffing level due to sequestration
 - Government mandates
 - Opportunity to leverage existing bibliographic tools (TRID, TRT)
- Goal: Improve cataloging efficiency while maintaining consistent and accurate metadata in NTL's digital collections
 - Identify minimum requirements for functionality and interoperability amongst NTL's user interfaces and digital content platforms (current and future)
 - Meet our legislative mandates
 - Eliminate duplication of effort
 - Develop new cataloging guidelines for NTL's digital repository



Research and Technology

Trustworthy Digital Repositories

- Method needed to measure and communicate the value of digital repository to stakeholders
- Digital repositories are not websites; require different analytics
- Trustworthiness is a valid qualitative assessment
- Digital repositories should either be certified or support a repository standard

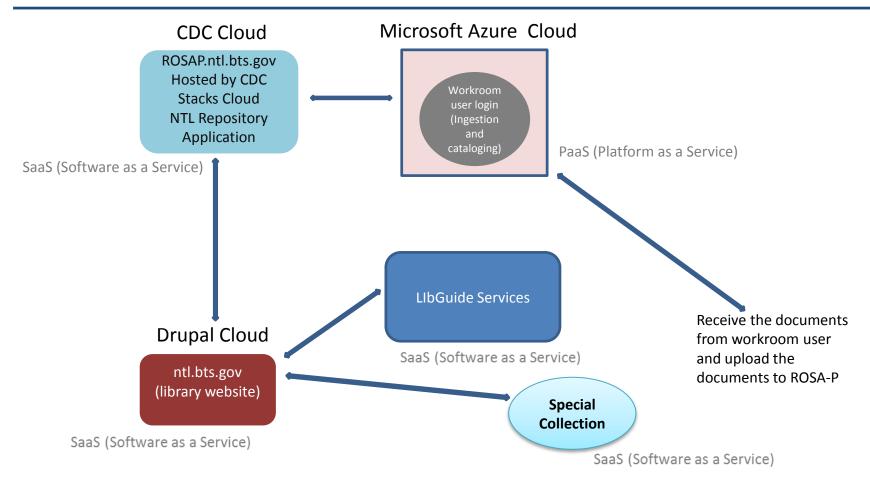


NTL Systems



Research and Technology

NTL Systems Architecture



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NTL Migration to Cloud

- NTL Repository in Azure will be for backend processing works
- ROSA_P is the public access site for NTL repository in CDC Cloud
- NTL home site is in Drupal cloud
- Special Collection is in MicroSearch Private Cloud
- NTL Reference services utilize LibGuide Cloud Services



Research and Technology

User Interface



Searching ROSA P

Cost Effective Wildlife Crossing Structures which Minimize the Highway Barrier Effects on Wildlife and Improve Highway Safety along US 64, Tyrrell County, NC



Final Report

Produced and Written by

Daniel J. Smith, Ph.D., A.I.C.P., Principal Investigator Research Associate/Adjunct Graduate Faculty

> Department of Biology University of Central Florida 4000 Central Florida Blvd. Orlando, FL 32816

> > April 2011

1. Homepage: Basic Search

- Collections dropdown
- Keyword or phrase
- 2. Collections:
 - 6 topic groups
 - 2 USDOT Libraries
 - 4 USDOT Operating Administrations
- 3. Advanced Search
 - Limit by Collection
 - 3 search categories

Cost effective wildlife crossing structures which minimize the highway barrier effects on wildlife and improve highway safety along US 64, Tyrrell County, NC. FHWA/NC/2009-26. 2011.



Basic Search



What's New:

Collection search on the homepage

Pros:

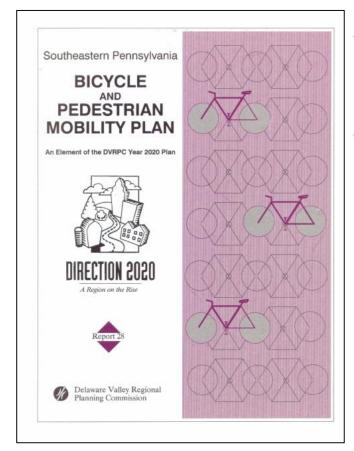
- Quick
- Broad

Cons:

- Relevancy
- Volume of results



Basic Search: Example

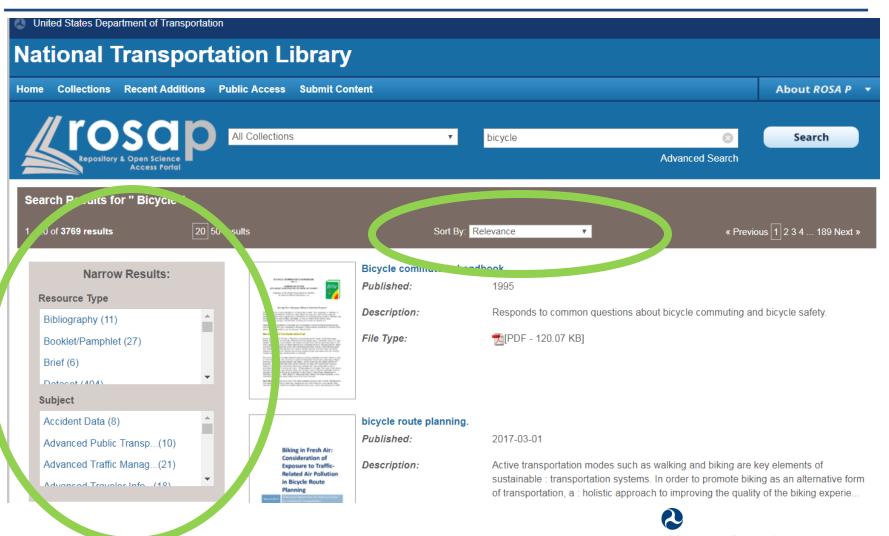


Southeastern Pennsylvania bicycle and pedestrian mobility plan : an element of the DVRPC year 2020 plan direction 2020. Delaware Valley Regional Planning Commission. 1995.

- Keyword or phrase: bicycle – 3,769 results
- Results: Page 1 20 PDFs
 - Handbooks
 - Reports
 - Pamphlets
 - Manuals
 - Journal Articles
 - Policy Statements
 - Research Papers
 - Date Range: 1978-2017



Basic Search: 3,769 results? That's too many!

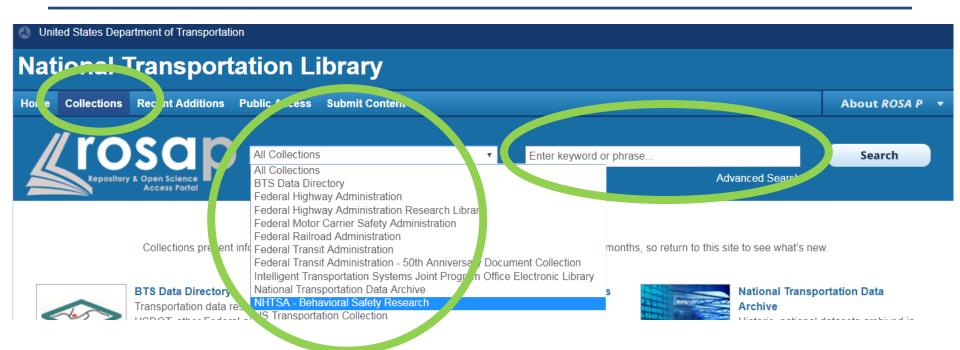


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Collection Search



Cons:

Pros:

- Focused search
- Smaller number of returns

 Knowledge of collection content



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Collection Search: Example



Insurance Institute for Highway Safety, vol. 43, no. 4, June 9, 2008.

- Collection: NHTSA –
 Behavioral Safety Research
- Keyword or phrase: teenager
 259 results
- Results: Page 1 20 PFDs
 - Tech Reports
 - Research Papers
 - Journal Articles



Advanced Search

🕗 Unite	United States Department of Transportation									
Nat	National Transportation Library									
Home	Collections	Recent Additions	Public Access	Submit Content					Abo	ut ROSA P 🔫
L			All Collections	2		T	Enter keyword or phrase			Ţ
		d Search	AND		•		Estadourus de solución			
Select		ch categories an	Title AND		•	*	Enter keyword or phrase			
the righ	onding keywords using t t. Refer to the <u>Help</u> secti		Title			•	Enter keyword or phrase			
detailed	d instructions.							Clear All	Simple Search	Search

- Limit by: Collection
- 3 Search Categories:
 - Title
 - Abstract
 - Personal Creator
 - Corporate Creator

- Publication Date
- DOI
- Contract Number
- Report Number
- Keywords 💦

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Advanced Search: Example

0 U. S. Department of Transportation Federal Railroad Administration

Passenger Rail Two-Car Impact Test Volume II: Summary of Occupant Protection Program

Office of Research and Development Washington, D.C. 20590

Rail Passenger Equipment Collision Tests



Passenger rail two-car impact test. Volume 2 : summary of occupant protection program. VanIngem-Dunn, C. 2002.

- Collection: BTS Data Directory
- Title: passenger

AND

- **Publication Date:** \bullet 1990 to 2000
- Results: Page 1 11 PDFs
 - Research Papers
 - Tech Reports
 - Journal Articles
 - Datasets



Research and Technology



🖕 Back to Previous Page

Behavioral distinctions : the use of light-duty trucks and passe

Published Date:	2000-12-01						
Language:	English						
Viewer Details	Supporting Files	Related Documents	You May Also Like				
Detan							
Creators:	Kockelman, k	KM ; Zhao, Y ;					
Resource Type:	Journal Article	e					
Format:	PDF						
Keywords:	[-] Behavior Light Trucks Passenger C Pickup Truck Sport Utility \ Travel Behav Travel Patter	Cars (s Vehicles vior					
Description:	URL: http://ntl.bts.gov/lib/10000/10900/10905/3kockelman.pdf Pickup trucks, sport utility vehicles (SUVs), and minivans are classifie protections. According to production and purchase trends, Americans research explores the subtle differences in ownership and use pattern Survey (NPTS) data. The results, based on a variety of model specific distances with more people aboard and is purchased by wealthier hou smaller households, and carry fewer people.						
Collection(s):	BTS Data Dir	ectory					

Use Case

Linked:

- Creators
- Resource Type
- Keywords
- Collections

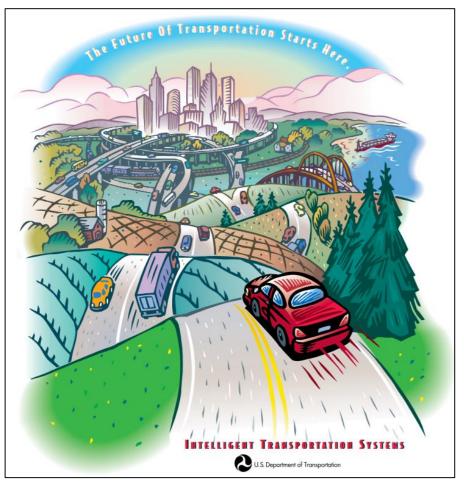
Datasets: Open Access Initiative

Analytical	Analytical procedures for determining the impacts of reliability mitigation strategies.					
Procedures for Determining the Impacts of	Published:	2013				
Reliability Mitigation Strategies	Description:	Reliability of transport, especially the ability to reach a destination within a certain amount : of time, is a regular concern of travelers and shippers. The definition of				
		reliability used in : this research is how travel time varies over time. The				
Second and the	File Type:	100 [PDF - 9.53 MB]				

	Analytical procedur	res for determining the impacts of reliability mitigation strategies [supporting datasets]
~	Published:	2012-11-30
ZIP	Description:	This zip file contains comma separated value (.csv) files of data to support SHRP 2 report S2-L03-RR-1, Analytical procedures for determining the impacts of reliability mitigation strategies.Zip size is 1.83 MB. Files were accessed in Microsoft Excel
	File Type:	🗐[ZIP - 1.58 GB]



What's Next?



The future of transportation starts here. United States. Joint Program Office for Intelligent Transportation Systems. 1998.

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- Curated searches
- Record cloning
- Linking related records
- Exporting to Excel



The Good, The Bad, & The Metadata



NTL Digital Repository Metadata

Legacy

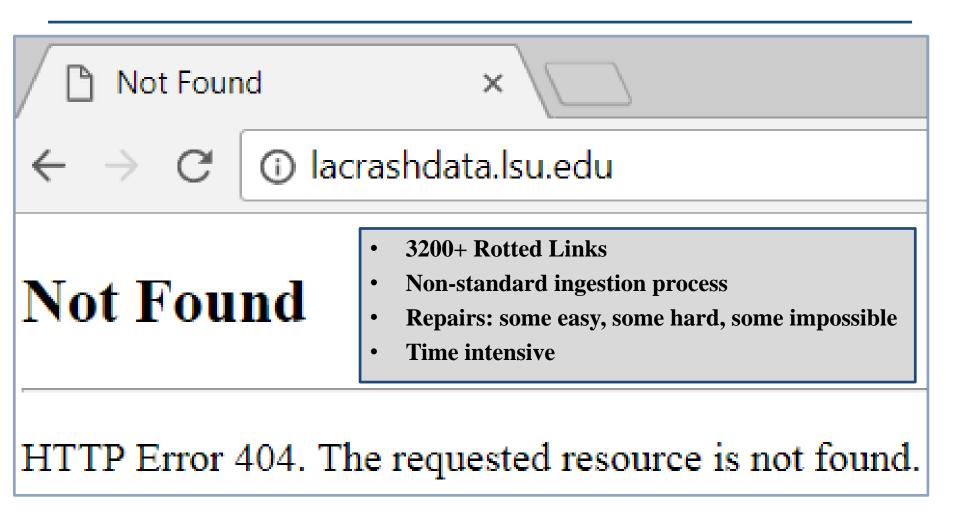
- NTL Minimal Cataloging Standard (OCLC K-Level) (2014 forward)
- Modified Dublin Core metadata
- Indexed by popular search services Google and Bing
- Some bad habits (upcoming slide)

Developing

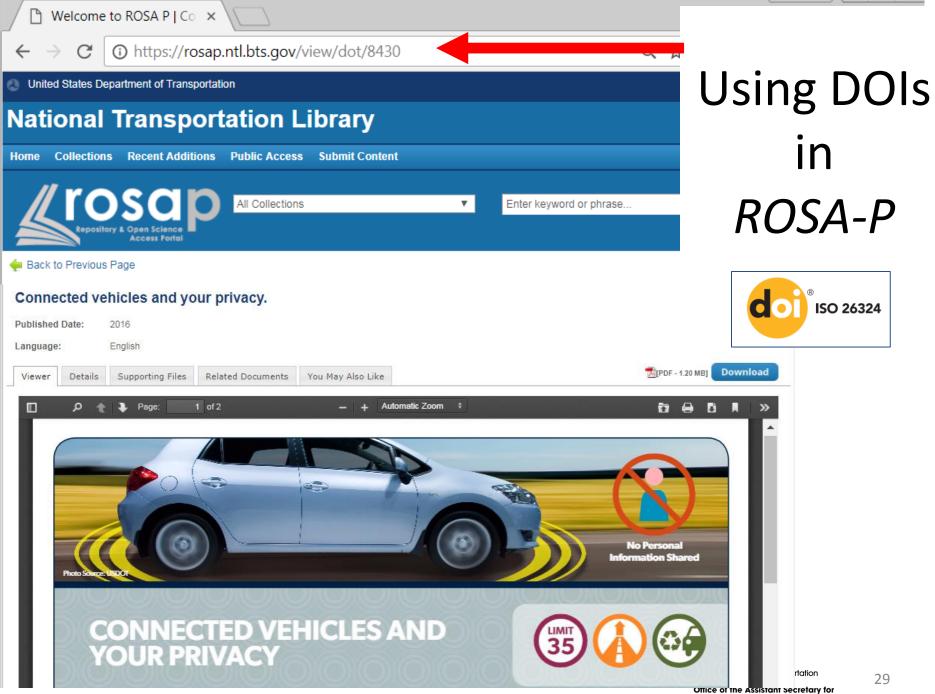
- Revising metadata to Project
 Open Data Metadata, as well as
 PREMIS and other data-specific metadata fields
- Goals: Public Access & Linked Open Data
- Additional indexing by Google Scholar
- DOIs minted for landing pages in ROSA P
- Better habits and workflows



4







hts NTI Workroon	n Data Entry - Google Chrome			Using DOIs
	ttps://ntlsearch.bts.gov/ntl/workroon	n/holderentry.	jsp?DOCID=56951 Q	
Data Entry	1 2 3 4 Overview LC Authority Search			in our
56951 - Approved				
Title	Connected vehicles and your privacy.			Records
TRIS	TRIS >> NTL	OCLC		NECULUS
ISBN		ISSN		
Conference Begin Date		Conference End Date		
Copyright Date		Date Captured	<mark>6-</mark> 02-11	®
Copyright		Digital Object Identifier		COI ISO 26324
Contract Number(s)		Contracting Officer		
Report Number(s)	FHWA-JPO-16-268	Edition		
Supplier				
Collection(s)	Intelligent Transportation Systems Join	t Program Office	:{103}	
Staff Notes				
Status	Approved V	Status Comment		
Date Modified	2016-02-11 14:06:37.0	Modified By	megan.tietjen	
Date Created	2016-02-11 12:34:03.0	Created By	megan.tietjen	
Comment Date		Comment By		
Prev Next	Finish Reset Cancel			

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Minting DOIs

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13 <pre><contact_email>answers@dot.gov</contact_email></pre>									
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Corporation ; Booz Allen Hamilton for 2001-									
21 <publisher>United States. General Accounting Office</publisher>	ublisher>								
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	31								

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Metadata Lessons

Problematic File Types

HTML (Web pages)

Employ Standards

- Dates: ISO 8601
 - YYYYMMDD or
 - YYYY-MM-DD
- Geographic Abbreviations: ISO 3166-2
 - California or Coahila?
 - US-CA; MX-CA
 - Hawai'i or Hidalgo
 - US-HI; MX-HI

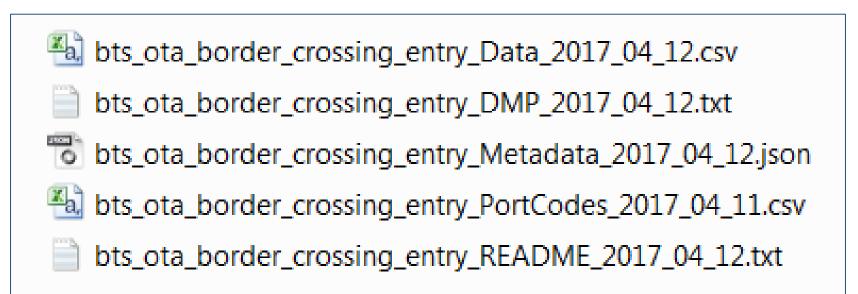
Potential Improvements

- Always ingest local copy of publications and reasonably sized files
 - LOCKSS
- Fixity Hashing & Checks
- Master Files vs. Use Files
- Document Workflows



Next Step: Data Packages

A "Data Package" is the dataset, the DMP, and all other documentation needed to contextualize the dataset for any and all users.





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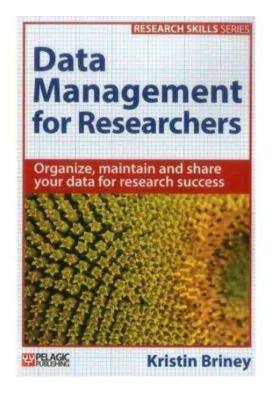
Data Package Elements

NTL Dataset Data Package Guidelines

- Dataset
 - $\circ\ .csv$ or other open format
- Readme.txt
 - Includes Data Dictionary
 - Notes standards used
 - Defining Zero, Null, & Unknown
 - $\circ~$ FAQs and other notes
- Metadata file in Project Open Data .json and/or other schema
- Data Management Plan (DMP)
- Code or scripts used in data analysis
- Supporting files, tables, etc.

(Bold = Required; Italics = Optional, or Required if Applicable)

Adapted from Best Practices described in:



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Element: Data

bts_ota_border_crossing_entry_Data_2017_04_12.csv Port Name, State Abbreviation, Port Code, Border, Date, Measure, Value, Location Alcan, AK, 3104, US-Canada Border, 1996-01, Personal Vehicle Passengers, 2011, "Alaska (62.61, -141.0)" 2 Alcan, AK, 3104, US-Canada Border, 1996-01, Personal Vehicles, 965, "Alaska (62.61, -141.0)" Alcan, AK, 3104, US-Canada Border, 1996-01, Trucks, 428, "Alaska (62.61, -141.0)" 4 5 Alcan,AK,3104,US-Canada Border,1996-01,Bus Passengers,9,"Alaska (62.61, -141.0)" 6 Alcan, AK, 3104, US-Canada Border, 1996-01, Buses, 3, "Alaska (62.61, -141.0)" 7 Alcan, AK, 3104, US-Canada Border, 1996-01, Empty Rail Containers, 0, "Alaska (62.61, -141.0)" Alcan, AK, 3104, US-Canada Border, 1996-01, Empty Truck Containers, 0, "Alaska (62.61, -141.0)" 8 Alcan, AK, 3104, US-Canada Border, 1996-01, Loaded Rail Containers, 0, "Alaska (62.61, -141.0)" 9 Alcan, AK, 3104, US-Canada Border, 1996-01, Loaded Truck Containers, 0, "Alaska (62.61, -141.0)" 10 Alcan,AK,3104,US-Canada Border,1996-01,Pedestrians,0,"Alaska (62.61, -141.0)" 11 Alcan, AK, 3104, US-Canada Border, 1996-01, Train Passengers and Crew, 0, "Alaska (62.61, -141.0)" 12 13 Alcan, AK, 3104, US-Canada Border, 1996-01, Trains, 0, "Alaska (62.61, -141.0)" Alexandria Bay, NY, 708, US-Canada Border, 1996-01, Personal Vehicles, 29758, "New York (44.35, -75.98) 14 Alexandria Bay, NY, 708, US-Canada Border, 1996-01, Trucks, 15546, "New York (44.35, -75.98)" 15 Alexandria Bay, NY, 708, US-Canada Border, 1996-01, Bus Passengers, 1505, "New York (44.35, -75.98)" 16 Alexandria Bay, NY, 708, US-Canada Border, 1996-01, Loaded Truck Containers, 160, "New York (44.35, -75 17

CSV: Open, Non-Proprietary Format Backward and Forward Compatible Long-Term Preservable

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Element: ReadMe

ReadMe.txt

- Includes Data Dictionary
- Notes standards used
- •Defining Zero, Null, & Unknown
- •FAQs and other notes

Data Dictionary Example

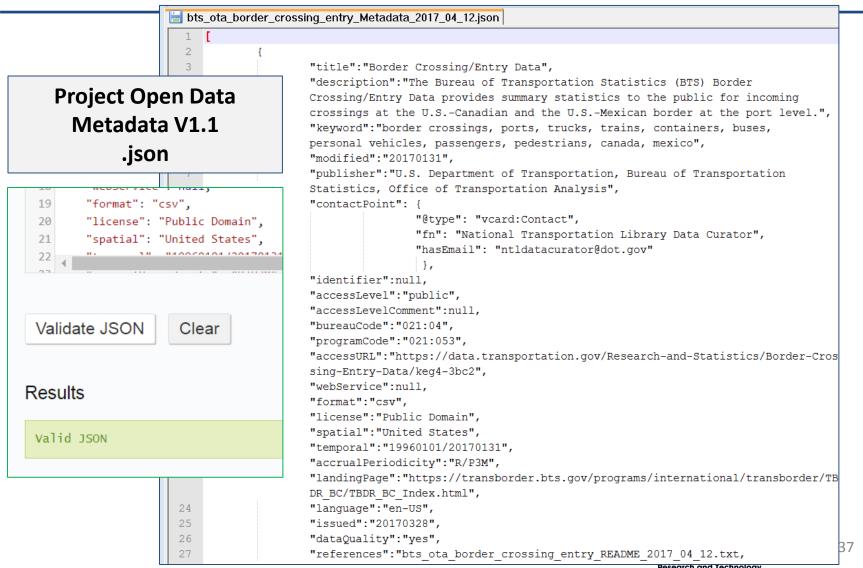
ReadMe Template: Contents

- A. General Information
- B. Sharing/Access Information
- C. Data and Related File Overview
- D. Methodological Information
- E. Data-Specific Information
- F. Appendices

E. Name: date Full name: Date Variable Definition or Description: Year and Month of count of border crossing value. Data format: YYYY-MM Field length: 7 characters Representation of null values: No null values Note: Date represented in ISO 8601 extended format for Year and Month (YYYY-MM)



Element: Metadata



Element: DMP

NTLDataCurator@dot.gov (202) 366-DAT/ DATA MANAGEMENT PLANNING "GREENOUT" BINGO SELF-ASSESSMENT TOOL This tool is designed to help assess your current Using colored pencils highlighters or the data management practices. Pick a dataset or highlighter tool in your document reader, shade research project, sit down with your data collection your answer in each prompt-box as indicated. The DMP Systians Guideline team, and discuss each prompt below. This tool greener the card, the better. But don't force it: Good can guide DMP improvement by revealing best data management is a process. NTL can help. Write I. Data Description: Provide a description of the data that you will be gathering in the course of your project practices that you are not using or information your questions on the back, and contact us for help su should address the nature, scope, and scale of the data that will be collected. Describe the characteristic that you may not have gathered. of the data, their relationship to other data, and provide sufficient detail so that team members or reviewers wil Red: Not current practice inderstand any disclosure risks that may apply. Discuss value of the data over the long-term Dataset Name: _North American Transborder Freight Data As general guidance you may consuler addressing the following Yellow: We are planning on this or are working on it 1.01) Name the data, data collection project, or data producing program 1.02) Describe the purpose of the research or data collection. 1.03) Describe the data that will be generated in terms of nature and scale (e.g., numerical data, image data Evaluators: Leighton Christiansen Green: Practice enacted, text sequences, video, audio, database, modeling data, source code, etc.). Describe methods for creating the data (e.g., simulated; observed; experimental; software; physical collections, sensors; satellite; enforcement activities; researcher-generated databases; tables, and or Date: 2016-08-15 Blue: Not Applicable. spreadsheets: instrument generated digital data output such as images and video: etc.). Discuss the period of time data will be collected and frequency of update 1.06) If using existing data, describe the relationship between the data you are collecting and existing data Archiving & Standard Re-use & Data Description Access Policies List potential users of the data 1.08) Discuss the potential value of the data have over the long-term for not only U.S. DOU, but also for the 1.09) If you request permission not to make data publicly accessible, explain rationale for lack of nublic access. (1.910) Indicate the party responsible for managing the data. 1.011) Describe low you will check for adherence to this data management plan 2. Data Description Based on NTL's "Creating Data Management Plans" http://ntl Data Description Narrative Evaluation Prompt The DMP names the data, data collection project, or data producing 2.01 program 2.02 The DMP describes the purpose of the research or data collection. The DMP describes the data generated in terms of nature and scale 2.03 (e.g. numerical data, image data, text sequences, video, audio, database, modeling data, source code, etc.). The DMP describe methods for creating the data (e.g., simulated observed; experimental; software; physical collections; sensors; 2.04 satellite: enforcement activities; researcher-generated databases. tables, and/or spreadsheets; digital data such as images and video etc.) 2.05 The DMP discusses the period of time data will be collected and frequency of update The DMP describes the relationship between the new data collected 2.06 for this effort and any existing data also used. 2.07 The DMP lists potential users of the data. 2.08 The DMP discusses the potential value the data have over the long-term for not only U.S. DOT, but also for the public. If the DMP contains a request permission to not make the data 2.09 publicly accessible, it explains the rationale for lack of public 2.10 The DMP indicates the party responsible for managing the data 2.11 The DMP describes how project leads will check for adherence to this data management plan. 2 6 2 Total of checked boxes for each column, out of 11: Evaluation auestions Did a majority of the prompts rate "Explained Fully" · Do you have a complete picture of: What the data will be gathered; How much data to expect; and, What is responsible for managing data, and how the data will be managed If not, this section may not be sufficiently detailed

bts_ota_border_crossing_entry_DMP_2017_04_12.txt

43 1. Data Description:

- 44 The dataset is known as "Border Crossing/Entry Data." The Bureau of Transpor (BTS) Border Crossing/Entry Data provides summary statistics to the public f crossings at the U.S.-Canadian and the U.S.-Mexican border at the port level available for trucks, trains, containers, buses, personal vehicles, passenge pedestrians. Data fields are numeric counts and textual sequences. These dat U.S. Customs and Border Protection (CBP) at individual ports of entry, then tabulated by staff of CBP's Office of Field Operations. CBP uses a mixture automated procedures to collect the data. The data reflect the number of ve containers, passengers or pedestrians entering the United States. U.S. Custo Protection does not collect comparable data on outbound crossings. Users see outbound vehicles may therefore want to review data from individual bridge o state governments, or the Mexican and Canadian governments. The Border Cross dataset begins with the January 1996 data month.
- 45 Potential users of the data include: DOT staff, Congressional staff, state D of tourism and trade, metropolitan planning organizations, private sector co international organizations, universities and other researchers.
- 46 The Border Crossing/Entry Data dataset has significant long-term value. Cust border crossing data for a variety of purposes, including trade corridor stutransportation infrastructure planning, marketing and logistics plans. Thi used in other BTS products (TSAR, Pocket Guide, etc.). The Border Crossing/ been collected since 1996, and thus provide a valuable continuous dataset to interested in transportation access the land borders of the United States.
- 47 Sean Jahanmir and Steven Beningo are responsible for managing these data. We this data management plan by conducting annual reviews of this DMP.
- 48

49 2. Standards Employed:

- 50 The data have been sent to BTS by U.S. Customs and Border Protection via e-m format since 2005. Prior to 2005, the data were provided to BTS on a CD-ROM interactive interface. Since Excel .xls is a proprietary file format owned Corporation, BTS will save this dataset as a .csv file, and open source, non format, for long-term preservation and distribution to the public.
- 51
- 52 Each new version of the dataset will include the Year and Month of the updat name, on the documentation webpage, and in the bts_ota_border_crossing_entry that accompanies the dataset in the NTL repository and other web interfaces.
 53
- 54 The formats used in this dataset are standard. Dates are recorded based on t standard. Metadata is recording use Project Open Data Metadata version 1.1. be stored and accessible from the NTL repository, data.transportation.gov, Crossing/Entry Data website.
- 55
- 56 Documentation is easily accessible on the Border Crossing/ Entry Data websit documentation includes a list of frequently asked questions, coverage, avail definitions and notes. Open and machine readable documentation will also inc such as: bts_ota_border_crossing_entry_PortCodes.csv;

bts_ota_border_crossing_entry_README.txt; bts_ota_border_crossing_entry_DMP. bts_ota_border_crossing_entry_Metadata_ison__and_others_as_appropriate_____

Element: Codebooks & Supporting Files

🔡 bts	s_ota_border_crossing_entry_PortCodes_2017_04_11.csv
1	Port Code,Port Name,State
2	3104,Alcan,AK
3	3106,Dalton Cache,AK
4	3102,Ketchikan,AK
5	3103,Skagway,AK
6	2601,Douglas,AZ
7	2602,Lukeville,AZ
8	2603,Naco,AZ
9	2604,Nogales,AZ
10	2608,San Luis,AZ
11	2606,Sasabe,AZ
12	2502,Andrade,CA
13	2503,Calexico,CA
14	2507,Calexico East,CA
15	2506,Otay Mesa,CA
16	2504,San Ysidro,CA
17	2505,Tecate,CA
18	3302,Eastport,ID
19	3308, Porthill, ID

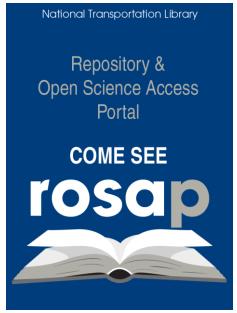


Where will we see Data Packages?

🚷 United States Department of Transportation								
National Transportation Library								
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