

Saving Data

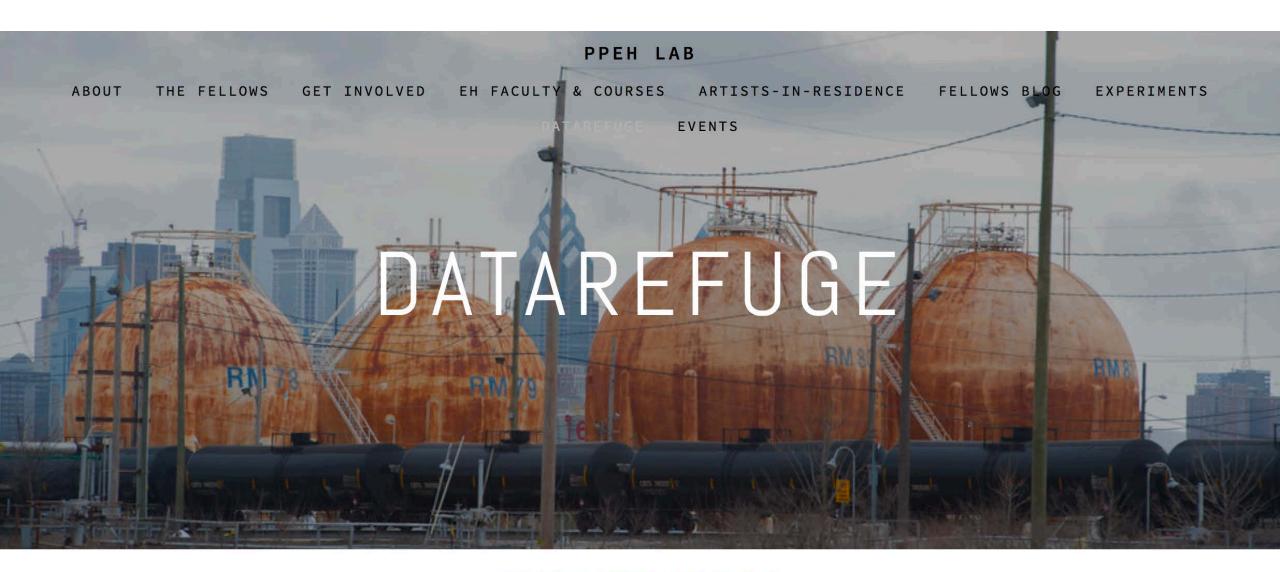
Lessons from Data Refuge for Librarians

Laurie Allen

ALCTS Exchange

May 18, 2017





DataRefuge Project | Get Involved

www.datarefuge.org | https://libraries.network

How to Rescue Data | Survey of Valuable Datasets | Storytelling | Future DataRescue Events

FAOs | Latest Updates | Press

Building refuge for federal climate & environmental data

DataRefuge helps to build refuge for federal data and supports climate and environmental research and advocacy. We are committed to fact-based arguments. DataRefuge preserves the facts we need at a time of ongoing climate change.

This site is one part of the project. The vast majority of the government information gathered through this project is available from the Internet Archive through the End of Term project. This data catalog is a place to store data that is difficult or impossible to harvest through web crawlers. Beginning to add difficult data to this websites is one of the tasks of the DataRescuePhilly event on January 13th and 14th.





Questions

- Is there vulnerable and valuable data?
- What is the scope of the problem?
- Who has already been working on this?
- What's already been done?
- How can we make sure we have the most valuable data?
- How can we measure the vulnerability of data?
- How can we engage all kinds of expertise?
- How can we make sure our work is closely tied to our communities?



Questions

- How can we ensure copied data remains citable by scientists?
- Where, how should we store copies?
- How should we describe the copied data?

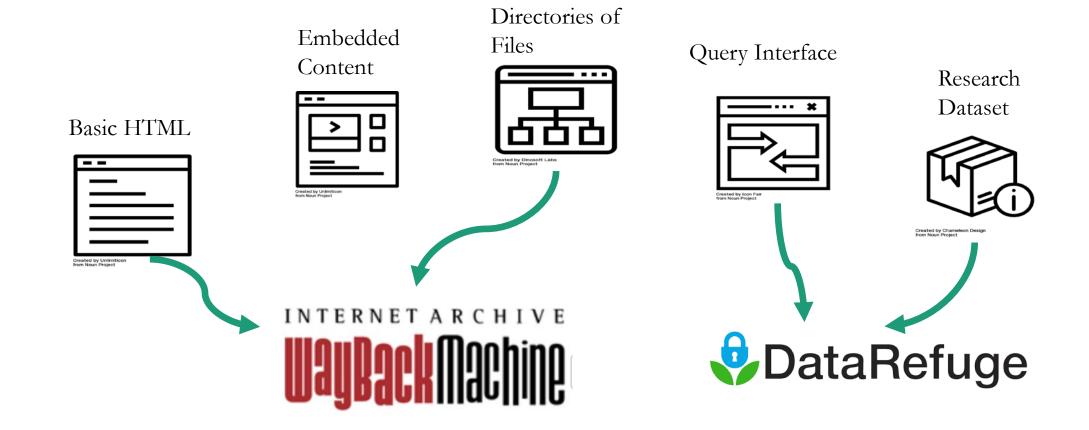


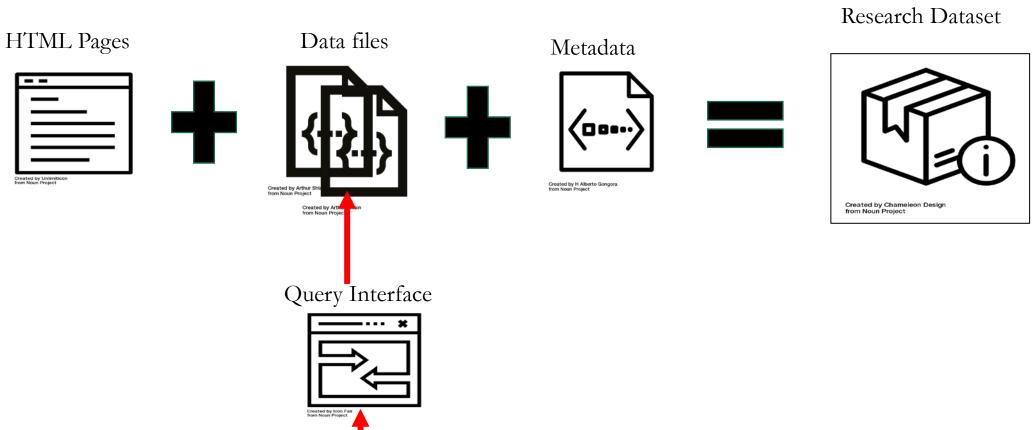
Questions

•What is federal environmental and climate data?

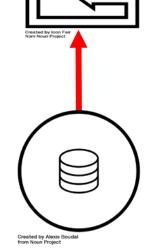


Federal data ≅ webpage

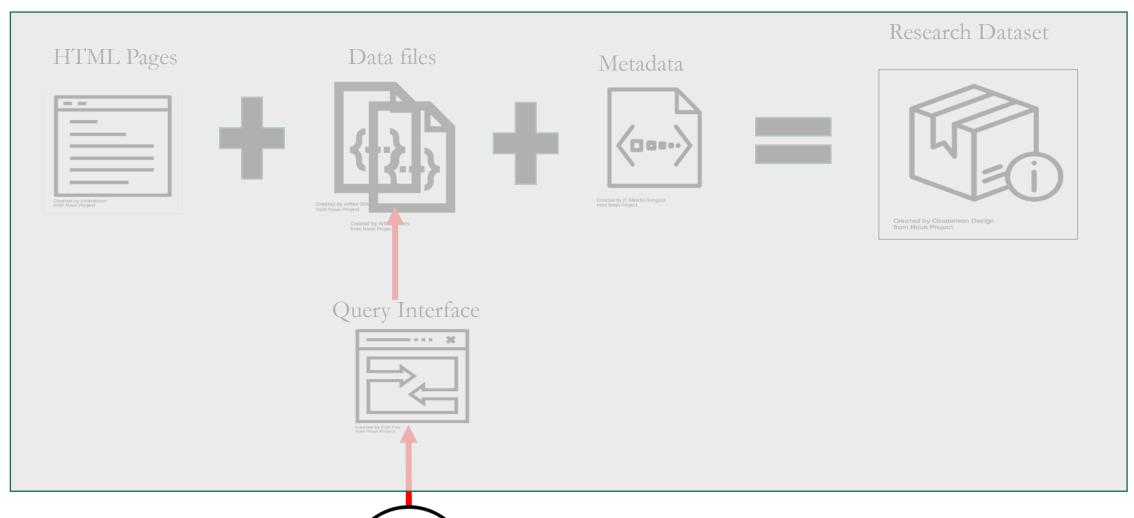




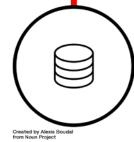




Less than ideal, but better than nothing

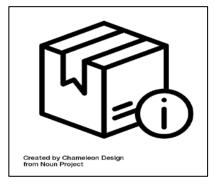


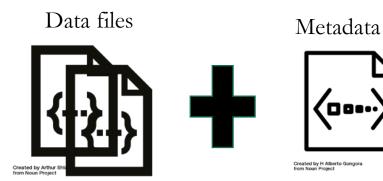
Where does this come from?





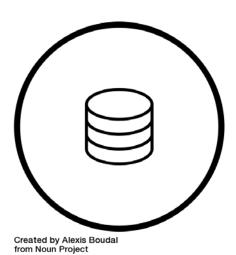






Created by Arthur Shlain from Noun Project





Data Management!



Federal data ≅ webpage

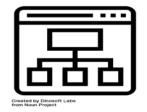
Basic HTML



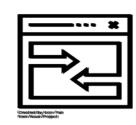
Embedded Content



Directories of Files



Query Interface



Research Dataset



Created by Chameleon Desig from Noun Project



Who's work is this?

Into the nitty gritty for a moment....



This mission is achieved through:

- Organizing processes that enable desired information to be identified and located.
- Expert assistance rendered by trained professionals in a network of libraries.
- Collections of publications at a network of libraries.
- Archived online information dissemination products from GPO Access, Federal agency Web sites, and partner Web sites.





Search for data

Find data published by government departments and agencies, public bodies and local authorities. You can use this data to learn more about how government works, carry out research or build applications and services.

Browse data by theme

Business and economy

Small businesses, industry, imports, exports and trade

Crime and justice

Courts, police, prisons, offenders, borders and

Environment

Weather, flooding, rivers, air quality, geology and agriculture

Governmen

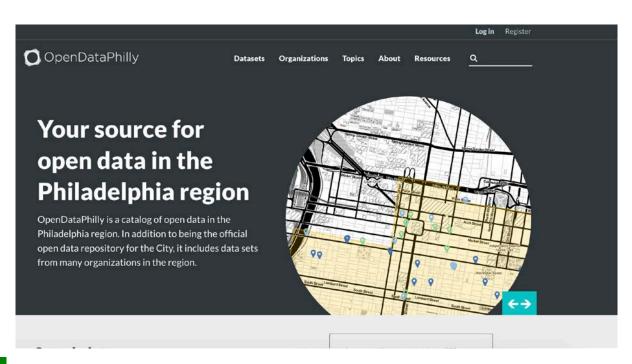
Staff numbers and pay, local councillors and

Mapping

Addresses, boundaries, land ownership, aerial photographs, seabed and land terrain

Society

Employment, benefits, household finances,







DATA TOPICS - IMPACT APPLICATIONS DEVELOPERS CONTACT

DATA CATALOG

/ Datasets

Organizations

2

👬 / 🟛 / Department of Transportation / Federal Highway Administrat 💆 Submit Data Story

₹ Report Data Issue



U.S. Department of Transportation

Federal Highway Administration

Federal Highway Admini stration

m Publisher

Federal Highway Administration

☑ Contact

Dan Morgan

Share on Social Sites

Google+

Twitter

Facebook

Significant Guidance Issued by the Federal Highway Administration

Metadata Updated: May 25, 2016

A list of Significant Guidance documents, which include guidance document disseminated to regulated entities or the general public that may reasonably be anticipated to lead to an annual effect on the economy of \$100 million or more or adversely affect in a material way the economy, a sector of the economy, productivity, competition, jobs, the environment, public health or safety, or State, local, or tribal governments or communities; create a serious inconsistency or otherwise interfere with an action taken or planned by another agency; materially alter the budgetary impact of entitlements, grants, user fees, or loan programs or the rights and obligations of recipients thereof; or raise novel legal or policy issues arising out of legal mandates, the President's priorities, or the principles set forth in Executive Order 12866, as further amended.

Access & Use Information

- Public: This dataset is intended for public access and use.
- License: See this page for license information.

Collection

This dataset is a collection of other datasets.

Search datasets within this collection

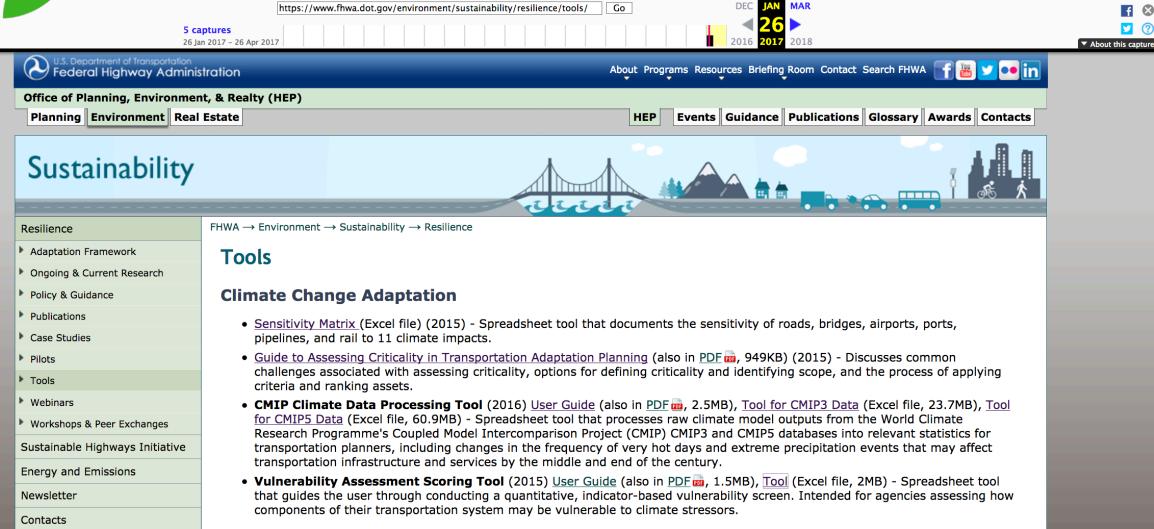
Downloads & Resources

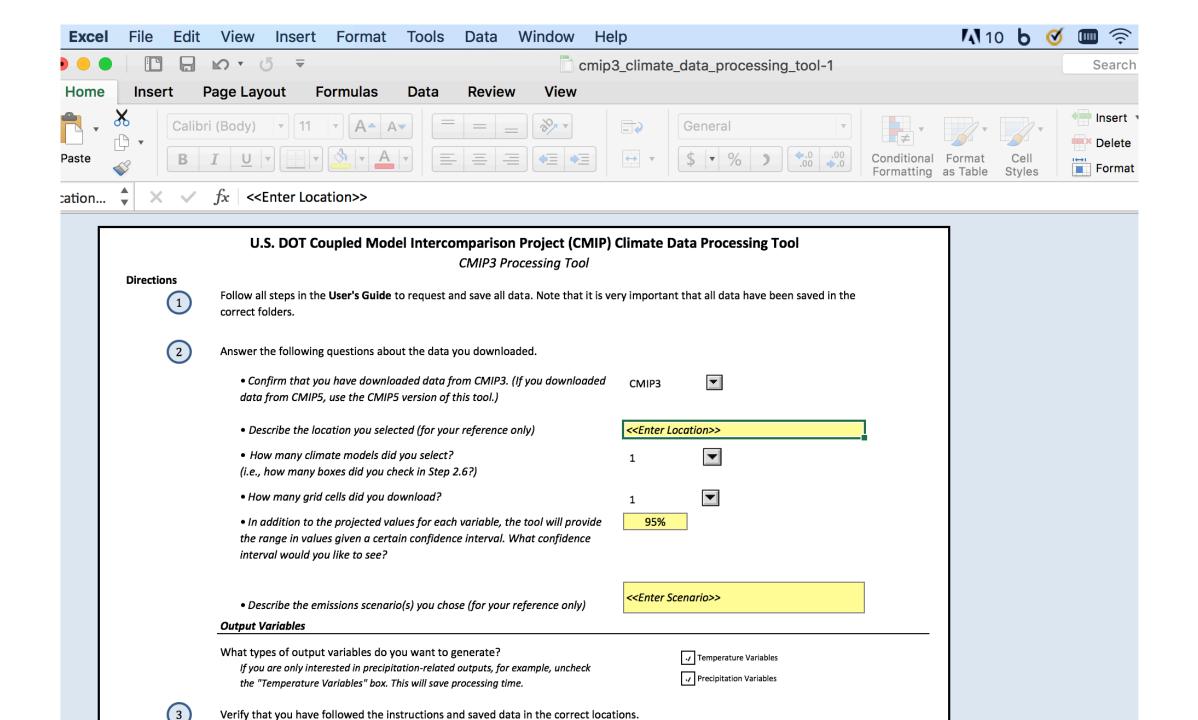


☑ Visit page



An example...





```
data.ison
"accessLevel": "public",
"accrualPeriodicity": "R/P1M",
"bureauCode": [
  "005:55"
],
"contactPoint": {
  "@type": "vcard:Contact",
  "fn": "Michael Sutton",
  "hasEmail": "mailto:michael.sutton@stl.usda.gov"
},
"description": "Data provides current information regarding single
previously owned properties are for sale by public auction or other
"distribution": [
    "@type": "dcat:Distribution",
    "description": "Resale Properties data file",
    "downloadURL": "https://www.sc.egov.usda.gov/data/files/SFHFCLDa
    "mediaType": "text/csv",
    "title": "Resale Properties - Foreclosure"
  },
    "@type": "dcat:Distribution",
    "downloadURL": "https://homesales.gov/homesales/mainAction.do",
    "mediaType": "text/html",
    "title": "Properties for Sale"
    ntifier" "USDA_RD_0004"
```

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DATA CATALOG



Organizations







Rural Development

Topics

Agriculture

m Publisher

Rural Development, Department of Agriculture

□ Contact

Michael Sutton

Share on Social Sites

S Google+

Twitter

Facebook

USDA Rural Development Resale Properties - Foreclosure

Metadata Updated: February 7, 2017

Data provides current information regarding single family homes and ranches for sale by the U.S. Federal Government. These previously owned properties are for sale by public auction or other method depending on the property.

Access & Use Information

Public: This dataset is intended for public access and use.

License: Creative Commons CCZero

Downloads & Resources







Properties for Sale 23 views
mainAction do





Landing Page



Dates

Metadata Created Date	May 17, 2014
Metadata Updated Date	February 7, 2017
Data Update Frequency	R/P1M

Metadata Source



Harvested from USDA JSON



Guides, case studies and resources for government & civil society

on the "what, why & how" of open data.



Open Data Guide

This guide discusses the legal, social and technical aspects of open data. It can be used by anyone but is especially designed for those seeking to open up data. It discusses why to go open, what open is, and the how to 'open' data.

Start Reading

Value Stories

Use cases, stories and case studies highlighting the social and economic value, the impact and the varied applications of open data from cities and countries across the globe.

Value Stories

Resource Library

A curated collection of open data resources, including articles, longer publications, how to guides, presentations and videos, produced by the global open data community.

Open Data Resources



SUPPORTED BY:







Contribute Terms of use Privacy policy OPEN CONTENT



OPEN KNOWLEDGE





Frictionless Data

Frictionless Data Specifications

Specifications -

Changelog

Patterns

Implementation

Pre v1

Abstract

Goals

Changelog

Language

Specification

Data Package

A simple format to describe data and its metadata.

Authors	Paul Walsh	
	Rufus Pollock	
Version	1.0.0-rc.1	
Last Updated	30 January 2017	
Created	12 November 2007	



Libraries + Network

One path on the long trail

From bucket brigade to sustainable network



Repositories Libraries

Archives

Publishers

Civic Tech

Citizens Consortia

Researchers

agencies

Universities

Infrastructure providers

Developers

Data service providers

Lawyers Research funding

Journalists

Government

Data Adv. Computing Centers

The future is



A popular Government, without popular information, or a means of acquiring it, is but a prologue to a farce or a tragedy; or perhaps both... a people who mean to be their own governors must arm themselves with the power which knowledge gives.

James Madison, Letter to W.T. Barry August 4, 1822



Experiment & Pilot!



thank you

Extra slides after this

value & vulnerability

How to measure?

Legal vulnerability

- What laws are in place to require the collection, safety, and redistribution of these data?
- What enforcement mechanisms back up those laws?

Technical vulnerability

- Is this data stewarded as part of a **partnership** with an institution, organization or government that will likely keep it going for a while?
- Is this data already duplicated somewhere?
 - If so, how vulnerable is the backup location?
- Is the data in a proprietary, difficult to duplicate format

Political vulnerability

- Do we have good reason to expect that **this dataset** is particularly targeted by hostile political forces?
- Do we have good reason to expect that **the agency and/or unit** who produce and maintain this data are particularly targeted by hostile political forces, or that their funding stream is unstable?
- Are the **primary users** associated with this dataset targets of hostile political forces?

Uses & uniqueness of the data

- Is this dataset the **only source** of data on the topic it covers?
- Is it **especially vital** to a particularly vital activity?

Data Rescue Events







Event Paths

- Seed and Sort webpages
- Data Refuge
 - Harvest
 - Check
 - Bag
 - Describe
- Storytelling
- Long trail

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Where is the data?

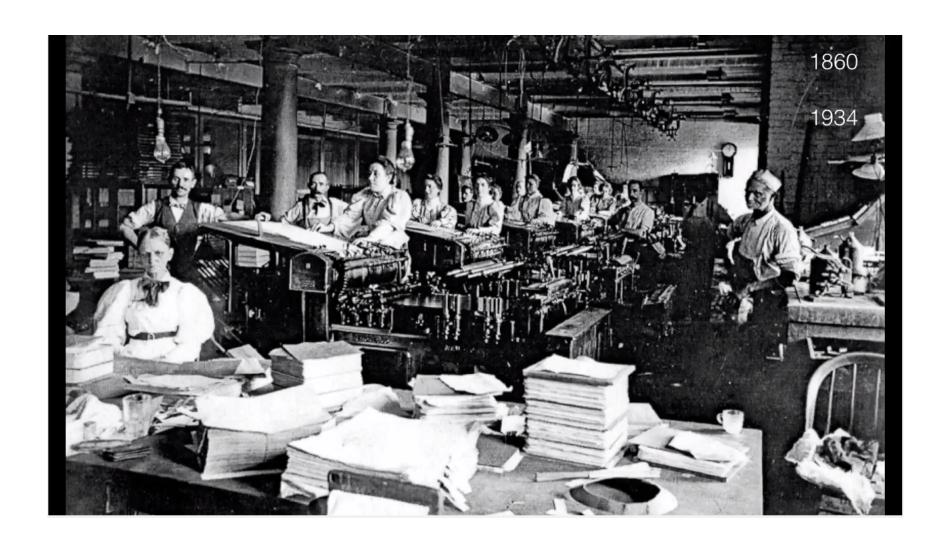


LIBRARIES+ NETWORK

ABOUT MAY MEETING BLOG VIDEOS

Libraries+ Network Meeting May 8-9, 2017 - Washington, D.C.

On May 8 and 9, representatives from research libraries, the open data community, government agencies, researchers, and other key stakeholders will be convening in Washington DC at New America to discuss and plan for the long-term preservation and access of federally produced data.



Libraries + Network https://libraries.network

- Association of Research Libraries
- California Digital Library
- Center for Open Science
- data.gov
- Dataverse
- Digital Libraries Federation
- HathiTrust
- ICPSR
- Internet Archive
- Library of Congress
- Mozilla Foundation
- National Archives and Records Administration
- National Oceanic and Atmospheric Association

- New America Foundation
- Pennsylvania State University
- Social Science Research Council
- Stanford Libraries
- Sunlight Foundation
- Temple University Libraries
- Union of Concerned Scientists
- University of Maryland Libraries
- University of Michigan Libraries
- University of Minnesota
- University of North Texas
- University of Pennsylvania