

## The home of the U.S. Government's open data

Here you will find data, tools, and resources to conduct research, develop web and mobile applications, design data visualizations, and [more](#).

For information regarding the Coronavirus/COVID-19, please visit [Coronavirus.gov](#).

### GET STARTED

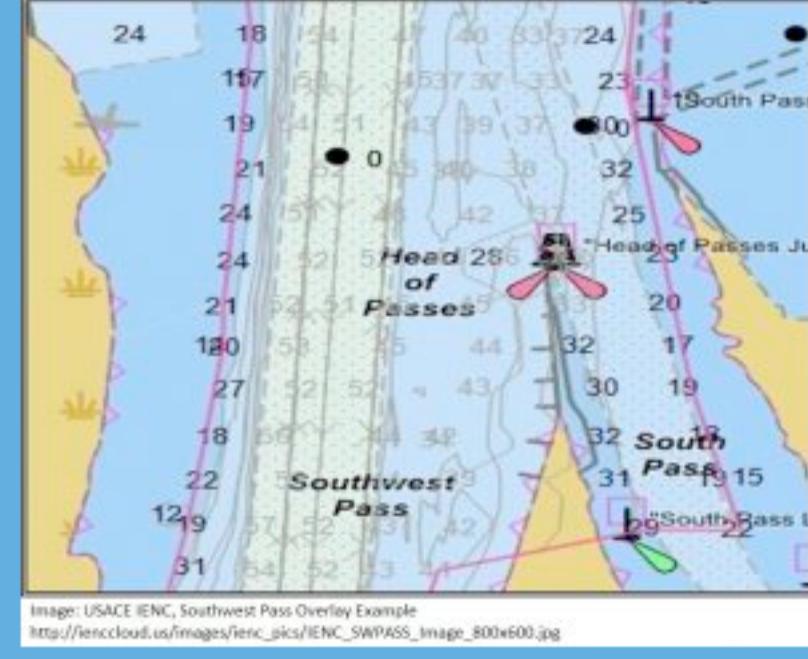
SEARCH OVER 309,130 DATASETS

Monthly House Price Indexes



### HIGHLIGHTS

#### Rivers of Data – Inland Electronic Navigation Charts



Nautical charts provide critical information to mariners in support of safe navigation. Historically these charts have been printed and distributed on paper, but modern communications systems allow for electronic charts that are able to be updated as new information becomes available. The National Oceanic and Atmospheric Administration (NOAA) Office of Coast Survey produces charts for coastal and Great Lakes areas, and the U.S. Army Corps of Engineers produces charts for America's inland rivers through the Inland Electronic Navigation Chart program. The Inland Electronic Navigation Chart (IENC) program covers thousands of miles of navigable waterways. America's inland waterways move millions of tons of commodities every year, and the work of surveying, charting, and dredging sediment is continually ongoing due to the dynamic conditions and constant change happening along any given river.

Rivers included in the Inland Electronic Navigation Chart (IENC) program include the Allegheny River, Arkansas River, Atchafalaya River, Black Warrior-Tombigbee Rivers, Cumberland River, Green River, Illinois River, Kaskaskia, Kanawha River, Lower Mississippi River, Missouri River, Monongahela River, Ohio River, Ouachita River, Red River, Tennessee River (including the Tellico, Hiwassee, Clinch and Emory Rivers), Tennessee-Tombigbee Waterway, Upper Mississippi River, and the White River. Anyone can access the navigation charts for these rivers, which show depth contours, buoys, lights, known hazards, and reference landmarks.

##### References and Data.Gov Links:

Inland Electronic Navigational Charts (IENC), <https://catalog.data.gov/dataset/inland-electronic-navigational-charts-ienc>

USACE Inland Electronic Navigation Charts Homepage, <http://ienccloud.us/>

NOAA Electronic Navigational Charts (ENC), <https://catalog.data.gov/dataset/noaa-electronic-navigational-charts-enc7cce5>

NOAA Raster Navigational Charts (RNC), <https://catalog.data.gov/dataset/noaa-raster-navigational-charts-rnc7af22>

[More Highlights](#)

### UPDATES



Geospatial

#### Hydrosurvey Data Archive for Federal Navigation Projects

July 27, 2021 By Marin Kress, Research Scientist, U.S. Army Corps of Engineers

The U.S. Army Corps of Engineers (USACE) performs hydrographic surveys (hydrosurveys) for federal navigation projects around the U.S. Federal navigation projects include an estimated 25,000 miles of channels and form a key part of U.S. maritime infrastructure in both coastal ... [Continued](#)

Meta - The Data.gov Blog

#### Data.gov to Discontinue CSW Service on May 1

April 28, 2021 By Data.gov

Data.gov will be discontinuing the Catalog Service for Web (CSW) as of May 1st, 2021. You can access the same catalog of data through the Comprehensive Knowledge Archive Network Application Programming Interface (CKAN API) provided by catalog.data.gov. If you have ... [Continued](#)

Meta - The Data.gov Blog

#### Serving the Needs of Data Practitioners with a New resources.data.gov

July 2, 2020 By Crystal Carter

We are excited to announce the relaunch of a new [resources.data.gov](#), an online repository of policies, tools, case studies, and other resources to support data governance, management, exchange, and use throughout the federal government. The site is a joint effort ... [Continued](#)

### 1 Site Navigation - needs assessment

While the sections are named relatively logically, would want to conduct a card sorting exercise of the different pages on the AI site to determine the information architecture. This site navigation has links that open new tabs of sub-sites with different navigation, which is jarring. Would want to keep primary nav linked to pages hosted on this site, in order to have consistent navigation.

### 2 Clear heading and description

Header area does a good job of describing the site's purpose and what the user is able to do.

### 3 Search CTA

Main call to action on this site is to get to the data, which this search bar lets the user do immediately. However, the search bar only searches the datasets, and not the entire site content. As the goal of the AI site would be not just to find data, but to give an overview of use cases, lessons learned, and guides, would want the search to be global to show all of the site content.

### 4 Highlights section

Highlights section takes up too much space on the homepage. Content could be minimized in order to show more than one featured item, which would give the user a better idea of the myriad of content available on the site.

### 5 Blog Posts

Blog posts seem to be news regarding the website itself and sub-sites. While this may be suitable use for this site which has many topics, a blog could be used on the AI site to highlight lessons learned from case study content, and new innovations from projects using open source AI data.



# Resources.data.gov is an online repository of policies, tools, case studies, and other resources to support data governance, management, exchange, and use throughout the federal government

[Learn more about this repository](#)

## Featured Resource

### [DCAT-US Schema v1.1 \(Project Open Data Metadata Schema\)](#)

How to use Project Open Data Metadata Schema guidelines to document and list agency datasets and application programming interfaces (APIs) for hosting at agency.gov/data and currently in use at data.gov

#### Source

data.gov

#### Keywords

[data schema](#), [open data](#), [DCAT](#), [Project Open Data](#), [Metadata Schema](#), [data standards](#), [data inventory](#)

[Browse resources by category](#)

[Browse resources by keyword](#)

## Browse resources by category

### Data management & governance

Playbooks, guidance, templates, and other resources to support the implementation of policy, the creation of data governance structures, and the day-to-day work of data management in the federal government

[Browse Data management & governance >](#)

### Data tools

Software tools and complementary resources to support the hands-on work of data practitioners

[Browse Data tools >](#)

### Data incubator

Crowdsourcing, prize competitions, public-private partnerships, and other resources to support the incubation of data projects

[Browse Data incubator >](#)

### Skills development

Guides, tutorials, and personnel-related resources to build and develop a data-savvy workforce

[Browse Skills development >](#)

### Guidance

Guidance from the Office of Management and Budget on data issues, and other memoranda applicable to federal agencies

[Browse Guidance >](#)

### Case studies & examples

Articles, use cases, and proof points describing projects undertaken by data managers and data practitioners across the federal government

[Browse Case studies & examples >](#)

## Browse resources by keyword

access	AI	API
budget	crowdsourcing	data access
data access	data analysis	data analytics
data catalog	data cleaning	data ethics
data governance	data inventory	data management
data schema	data sharing	data skills
data standards	data validation	data visualization
DCAT	FCSM	Federal Data Strategy
FOIA	Framework	geospatial
ICSP	icsp	inventory.data.gov
IT & software investment	metadata	open data
playbook	position description	PRA
privacy	prize competitions	process redesign
Project Open Data Metadata Schema	public-private partnerships	quality
security	spending	Standards
workforce development	workforce	

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## 6 Featured resource

Featuring a curated example is an effective way to ensure the user immediately has access to a project/example that models the ideas and standards the site is trying to convey. Good for orientating a new user to the type of work available on the site.

## 7 Resources by category

Appreciate the prominence of the resource category listing on the homepage, as it is the major taxonomy for the site. While they are ordered alphabetically here, for the AI site I would want to order based on user goal priority, depending on what came up in testing.

## 8 Resources by keyword

A little skeptical about the effectiveness of listing out all the keywords here. Wondering if a search bar with autopopulation would be more effective, or if these were grouped in with the categories above, giving more context to the user. My hypothesis is they would be more likely to search by these keywords in the top search bar, or to click on one from the search results. But would want to test to see how the user reacts and behaves to these.



Browse "data skills" resources by category:

 **Data management & governance**

**Skills development**

## Results for "data skills"

### DATA MANAGEMENT & GOVERNANCE

#### [Assessing Data Skills Playbook](#)

The Assessing Data Skills Playbook supports the Federal Data Strategy by helping agencies get started with assessing data skills.

**Source**

Federal Data Strategy

**Keywords**

[Federal Data Strategy](#), [playbook](#), [data skills](#)

**Format**

PDF (26 pages)

 [See all resources in Data management & governance >](#)

### SKILLS DEVELOPMENT

#### [Curated Data Skills Catalog](#)

The Curated Data Skills Catalog supports the Federal Data Strategy by providing a list of learning opportunities to help agencies develop competencies for managing data as a strategic asset and making data-driven decisions.

**Source**

Federal Data Strategy

**Keywords**

[workforce development](#), [data skills](#), [Federal Data Strategy](#)

**Format**

PDF (36 pages)

[See all resources in Skills development >](#)

[Return to top](#)



The Federal Enterprise Data Resources content is maintained by the [Data.gov Program Management Office](#) in [GSA TTS](#), the [Office of Government and Information Services \(OGIS\)](#), and the [Office of Management and Budget \(OMB\)](#).

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 **Category navigation**

This category sidebar seems effective as a navigation piece (jump links to each category) and as a informative guide to the user about the type of content available on the site. Would definitely want to affirm the effectiveness with usability testing to see if any improvements need to be made, but would want to bring this design pattern over.

 **Clean data display**

The data result here is clean in showing just the relevant information (title, description, source, keywords, format). Would want to interview users and/or look at research to find what would be the most relevant information for the AI data result, and make sure to display cleanly as it is done here.

 **See all links**

See all links are very well done, stating exactly what the user would be "seeing all" of - very good for accessibility and user orientation.



## Overview

### Details

Build a tool for understanding the data

Different stakeholders, different uses

Protecting privacy while gaining insights

Plan for the tool to evolve

Postscript

### Guidance references

#### DESIGN ADDITION:

Data Used	Guidance References	Examples using this Tool
<a href="#">Link to relevant dataset</a>	<a href="#">Link to Guidance Reference</a>	<a href="#">Link to application</a>
<a href="#">Link to relevant API</a>	<a href="#">Link to Guidance Reference</a>	<a href="#">Link to case study using this tool</a>

## Details

Originally published May 3, 2019

The [Centers for Medicare & Medicaid Services' Office of Minority Health](#) (CMS OMH) is focused on eliminating health disparities by improving the health of minority populations. The path to healthcare equity starts with a better understanding and awareness of health disparities. Without the knowledge about the size of the problem or its root causes, it is difficult to develop solutions.

With its Mapping Medicare Disparities Tool, CMS OMH harnessed the power of millions of data records while protecting the privacy of individuals, to build an easy-to-use tool for better understanding this important real-world problem.

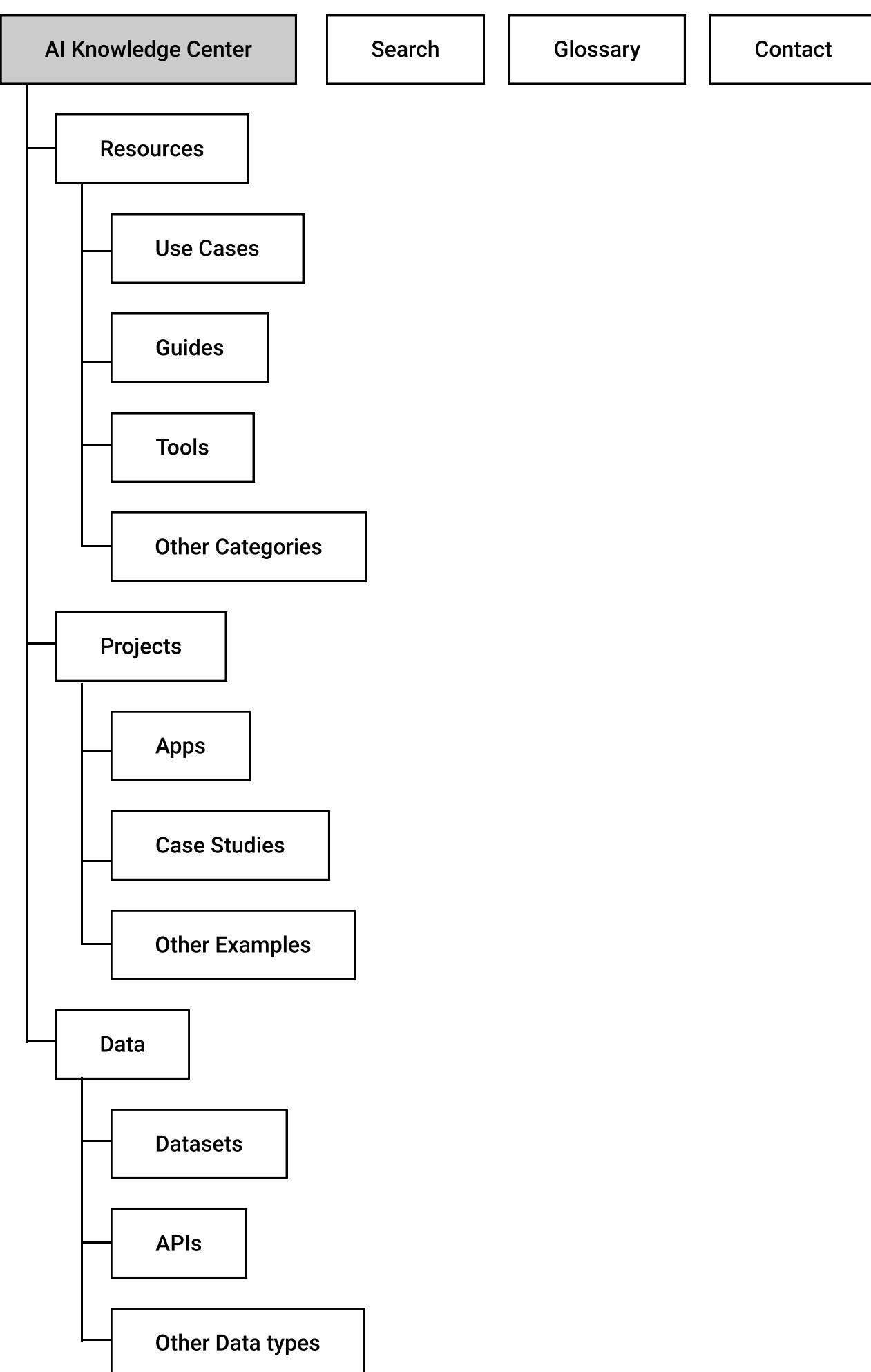


## 12 Addition of cross-references

In support of a holistic view of the AI Knowledge, would be ideal to create more connections between the content types featured on the site. Shown here is an addition to a data tool on the resources.data.gov page, showing any other relevant site content that could be linked to this tool. This would further the goal of increasing connection and understanding between lessons learned and real examples.

# Sitemap for AI Knowledge Center, v1

Goal: Present a holistic view of the lifecycle of the open source data - reasons to use it, lessons learned from previous uses, what questions to be asking and what goals one has, and what others have done and what has been successful, as well as actual data



## Description of AI Knowledge Center

Short description describing what the site is for: use cases of open sharing of data in applications and projects, project and case study examples, developer tools and resources.

 Search the AI Knowledge Center[Search](#)

## Explore Resources by Category

### Use Cases

Short description describing the use cases that have been discovered.

[\*\*See all Use Cases\*\*](#)

### Guides & Tutorials

Short description of what is available in this category

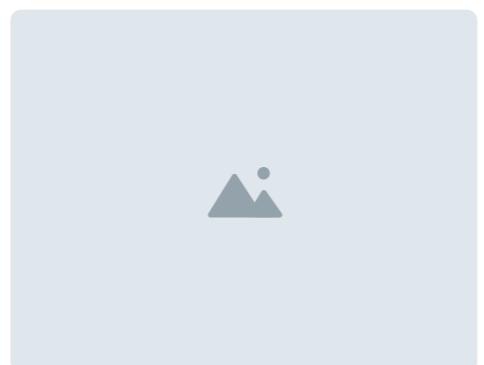
[\*\*See all Guides & Tutorials\*\*](#)

### Data Tools

Short description of what is available in this category

[\*\*See all Data Tools\*\*](#)

## Featured Projects

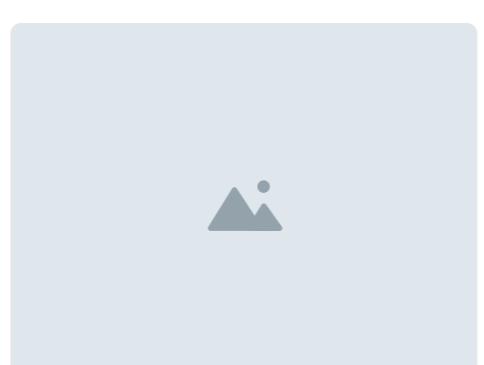


### Title of Project

Type of project (ie Case Study, App)

Short project description Short project description

Source of project



### Title of Project

Type of project (ie Case Study, App)

Short project description Short project description

Source of project

[\*\*See all Projects and Case Studies\*\*](#)

### 1 Top summary and global search

Orient the user to the purpose of the site and description of what they can do here (adopted design pattern from data.gov) Include global search of not just datasets, but examples and other resources to increase holistic view of data lifecycle

### 2 Resources by Category

Adopted from resources.data.gov, users can see resources by different categories, with the goal of increasing user knowledge of the lessons learned and tools they can use before diving straight into the data. (category listing is not comprehensive, would require more taxonomy research)

### 3 Featured Examples

Adopted design pattern from resources.data.gov to feature good examples of applications and case studies that have proven successful for agencies across the federal government. This would give users examples immediately of use cases and good use of data in a real life example.

### 4 Data Search

As opposed to being the first thing, included searching of datasets below the resources and examples, to encourage users to get a more holistic view of not just the data available, but best practices and examples for using it.

Also included suggestions and data categories (to be determined by research which categories would be most useful for this AI site) so that user has other ways to start exploring the data then only a keyword search, as shown on data.gov site.

## Search Data

 Enter keyword[Search](#)

### Suggested searches:

[\*\*Search term\*\*](#)[\*\*Search term\*\*](#)[\*\*Search term\*\*](#)[\*\*Search term\*\*](#)[\*\*Search term\*\*](#)

### Explore data by (taxonomy)

[\*\*Data taxonomy 1\*\*](#)[\*\*Data taxonomy 2\*\*](#)[\*\*Data taxonomy 3\*\*](#)[\*\*Data taxonomy 4\*\*](#)[\*\*Data taxonomy 5\*\*](#)

# Search AI Knowledge Center

 Search term

Search

## Resources

Use Cases (1)Guides & Tutorials (2)Data Tools (1)

## Projects

Applications (1)Case Studies (3)

## Data

Data taxonomy 1Data taxonomy 2Data taxonomy 3Data taxonomy 4Data taxonomy 5

## Results for “search term”

### USE CASES

#### Title of Resource

Short project description Short project description

Source

Keywords

Format

See all Resources in Use Cases

### GUIDES & TUTORIALS

#### Title of Resource

Short project description Short project description

Source

Keywords

Format

#### Title of Resource

Short project description Short project description

Source

Keywords

Format

See all Resources in Guides & Tutorials

### DATA TOOLS

#### Title of Resource

Short project description Short project description

Source

Keywords

Format

See all Resources in Data Tools

## 5 Category listing

Adopted design pattern from resources.data.gov, but instead of just resource types, included other content types in this global search (examples, and data). This would go towards the goal of increasing the user's understanding of the holistic lifecycle of the data. Would want to test if this global category listing would be helpful or end up being too overwhelming for users.

## 6 Search results

Adopted design pattern from resources.data.gov of listing by category and including links to see all resources in that particular category. Metadata (source, keywords, format) would be based on research for what is most relevant for each content type.