



Getting started with open data and initiatives in the ArcGIS Hub

Graham Hudgins, Esri

Agenda

- Overview of open data in the ArcGIS Hub
- Demonstration of open data capabilities
- Preparing your data best practices
- Building open data using the Share Open Data initiative
- Building open data from scratch
- Data federation
- Telling your story
- What's Next



Historic Sharing Practices

- Physical Media and FTP Sites
 - Static snapshots over time
 - Quarterly release
 - Manual process to produce
- Data typically had terms of use
 - Used by academia & neighboring governments for analysis
 - Possibly aggregated into commercial datasets
 - Mindset was to sell data

Modern Expectations of Sharing

- Open Data is now an EVERYDAY THING
 - International movement to provide transparency and enable economic development
 - Formalized process to license and share data to the public
 - Often supported by governing legislation
- Solutions connected to Enterprise Architecture
 - Leveraging Servers to share out and ingest data
 - Minimal impact on the information workers



Part of the ArcGIS Platform

Providing open access to your published data

Simple
Integrated
Open



Open Data Site

Open Data Principles



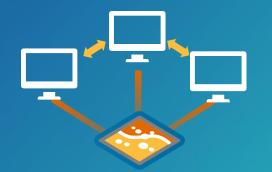
Accessible



Discoverable



Explorable



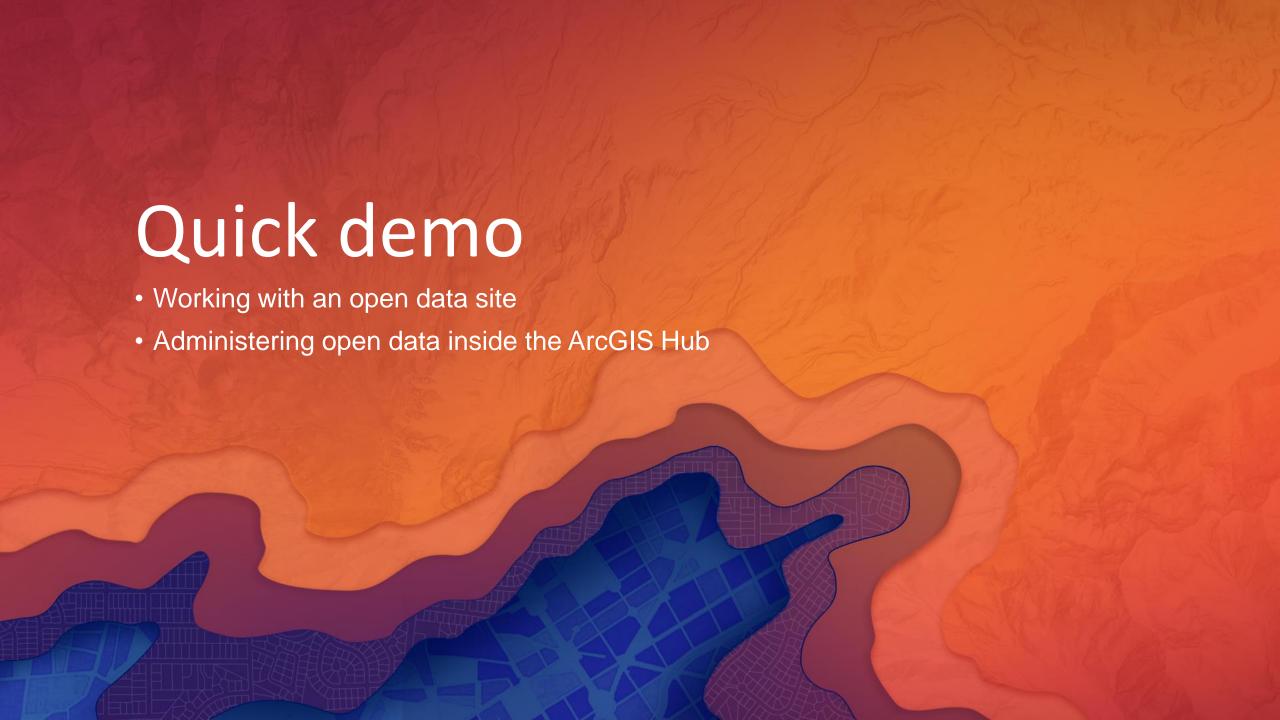
Collaborative

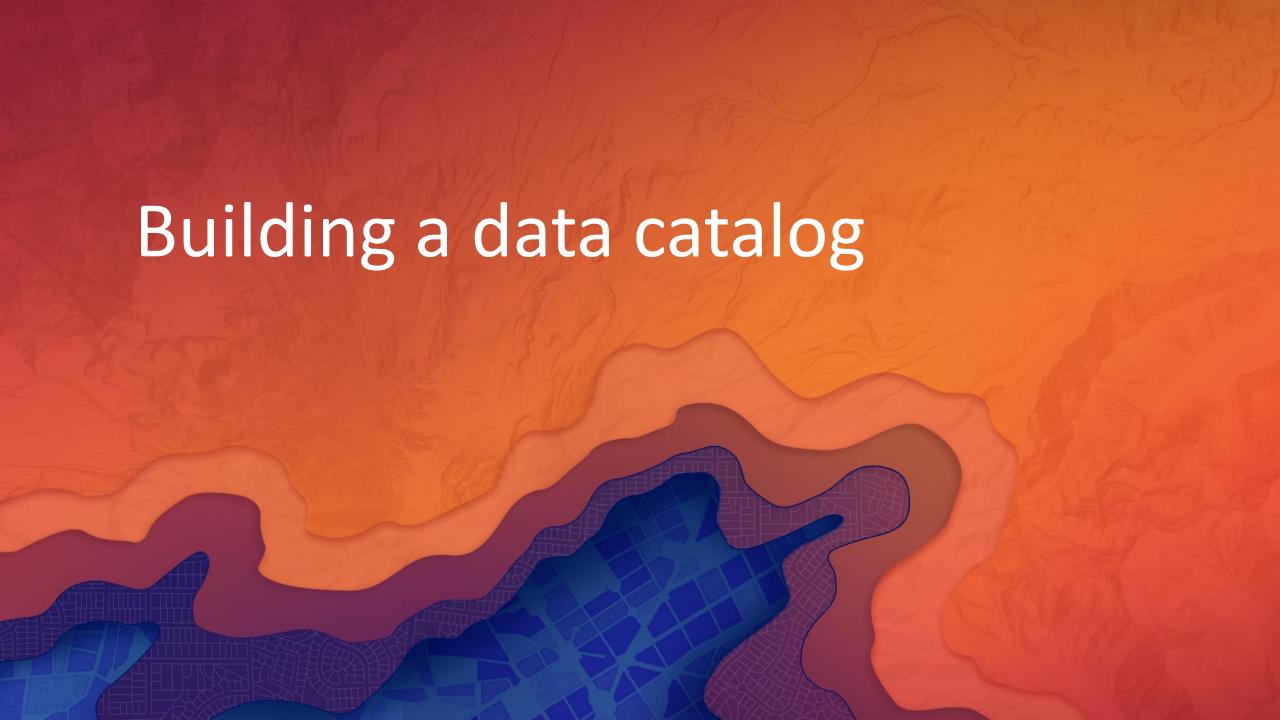
Open data in the ArcGIS Hub

- Complete Open Data solution for Operational Tables and Spatial Data
 - 8,000+ Organizations around the world
 - 70,000 Datasets shared into Open Data
 - 20,000,000+ Downloads in 2016
- Provide Custom Sites you control
 - Unlimited Bandwidth and API Usage
 - No restriction on the number of datasets
 - Auto-generated downloads
 - Suite of applications to provide context
 - ArcGIS sharing model

ArcGIS is a complete Open Data solution

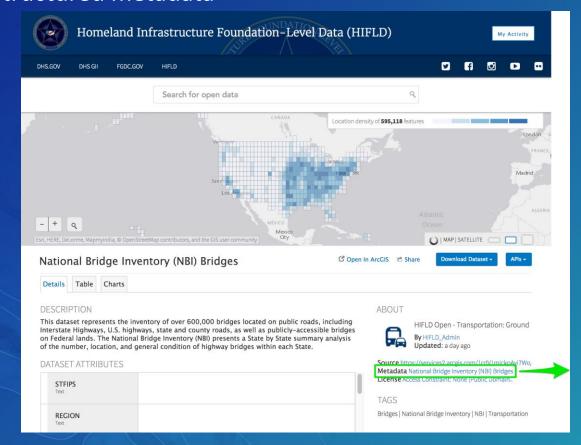
- Build a site that represents your organization to the public
 - General or focused on issues, departments, events
- Automatically convert your data regardless of source, into open file formats for download
 - Support for Operational Tables and Spatial Data
- Apply your terms of use to License the datasets
- Add context to your datasets with Applications





Customizing your data

Structured metadata



National Bridge Inventory (NBI) Bridges

Identification Information:

Citation:

Citation Information:

Title: National Bridge Inventory (NBI) Bridges

Description:

Abstract: This dataset represents the inventory of over 600,000 bridges located on public roads, including Interstate Highways, U.S. highways, state and county roads, as well as publicly-accessible bridges on Federal lands. The National Bridge Inventory (NBI) presents a State by State summary analysis of the number, location, and general condition of highway bridges within each State

Purpose: This dataset represents the inventory of over 600,000 bridges located on public roads, including Interstate Highways, U.S. highways, state and county roads, as well as publicly-accessible bridges on Federal lands.

Keywords:

Theme:

Theme Keyword Thesaurus: None

Theme Keyword: Bridges

Theme Keyword: National Bridge Inventory

Theme Keyword: NBI

Theme Keyword: Transportation

Access Constraints: Access Constraint: None (Public Domain Information)

Use Constraints: Access Constraint: None (Public Domain Information) Use Constraint: None (Public Use)

Data Set Credit: Federal Highway Administration (FHWA)

Spatial Data Organization Information:

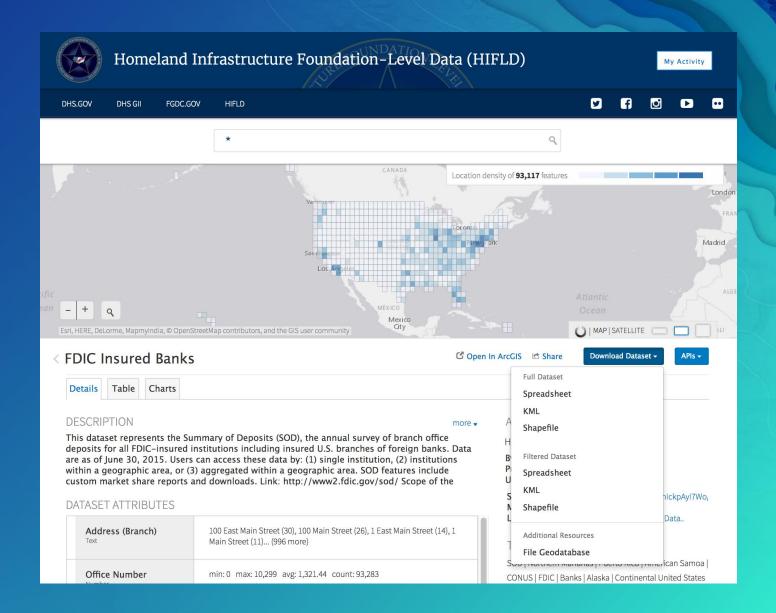
Point and Vector Object Information:

SDTS Terms Description:

Point and Vector Object Count: 607751

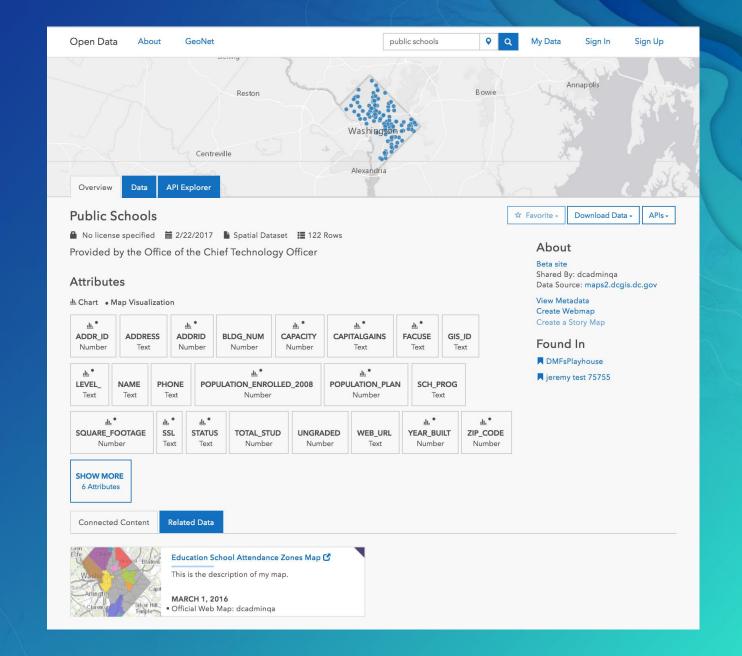
Customizing your data

- Add additional download types
 - Custom download distribution on structured metadata



Customizing your data

Connected content



Leverages existing services and familiar workflows





Open Data Workflows

Auto ETL and Custom Search



Site

Preview Interact Download

Search Metadata

Shapefile KML CSV GeoJSON





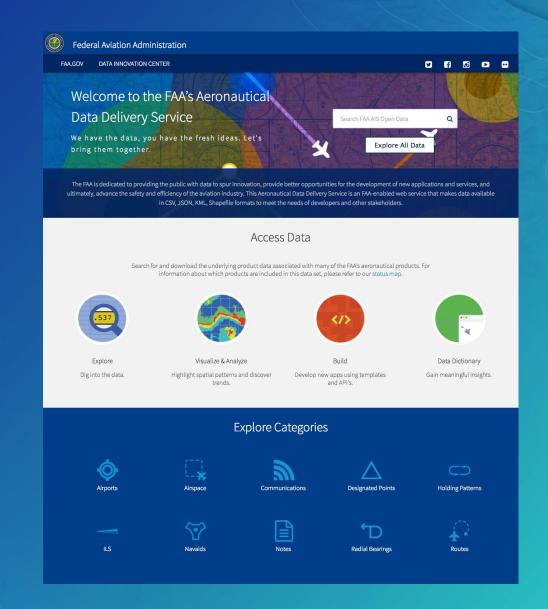




- Tax Parcels
- Sales
- Foreclosures
- Street Centerlines
- Address Points
- Points of Interest
- Building Footprints
- Subdivision Boundary

- Purchase Card Transactions
- Use of Force Events
- Calls for Service
- Tax Districts
- Park Locations
- School Zones
- Public Buildings
- Parking Ticket Locations

Open Data Site



Building your community











The chasm: How do you reach the rest of your community?



Open Data only empowers

Open Data only empowers commercial developers, journalists, expert citizens

Departments work in silos







<u>Launch initiatives</u> that engage with

The chasm: អ្វេសមាន 95ជាដុំខេត្តក្នុ on community

the rest of your community?

Time

A Platform for Civic Engagement



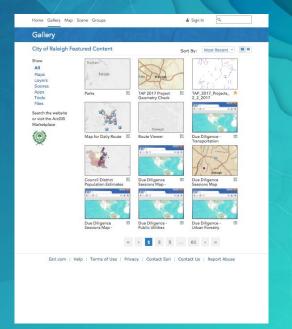
A Platform for Civic Engagement





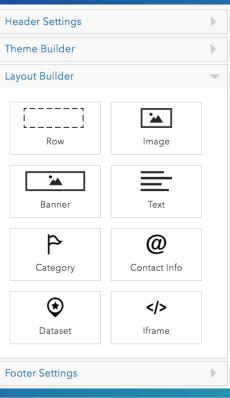


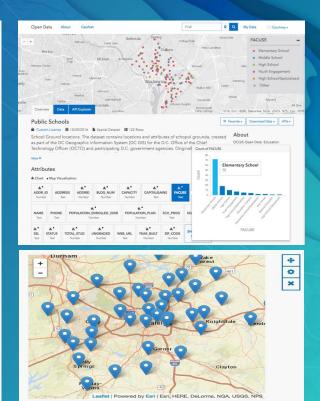


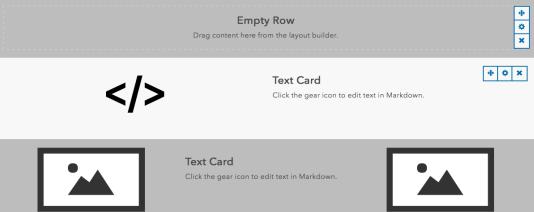


Tell Your Story with a Page





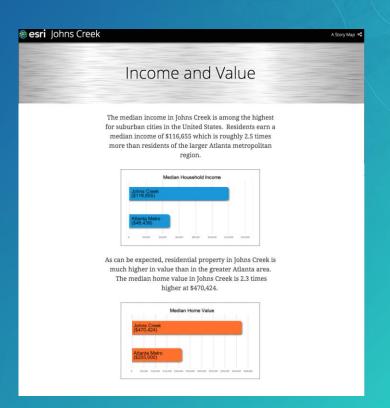




Engage Your Community

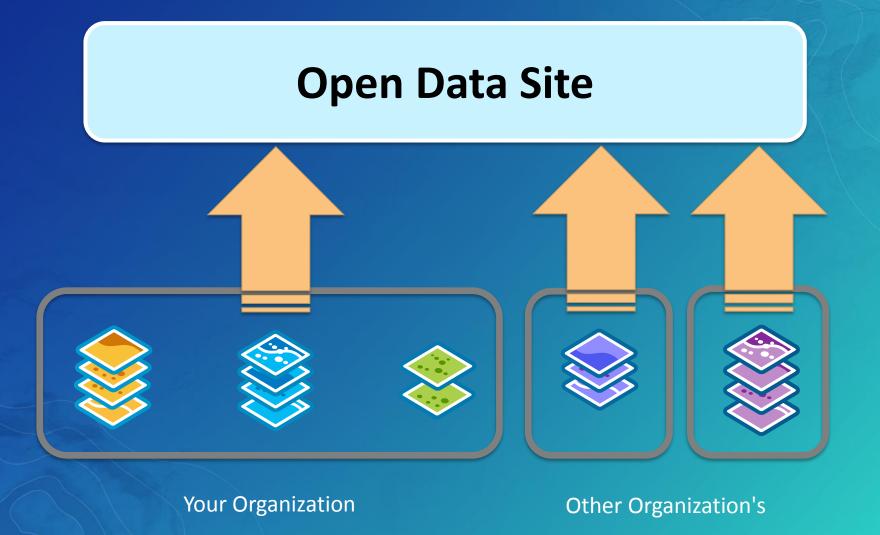
Story Maps & Survey Apps for two way communication

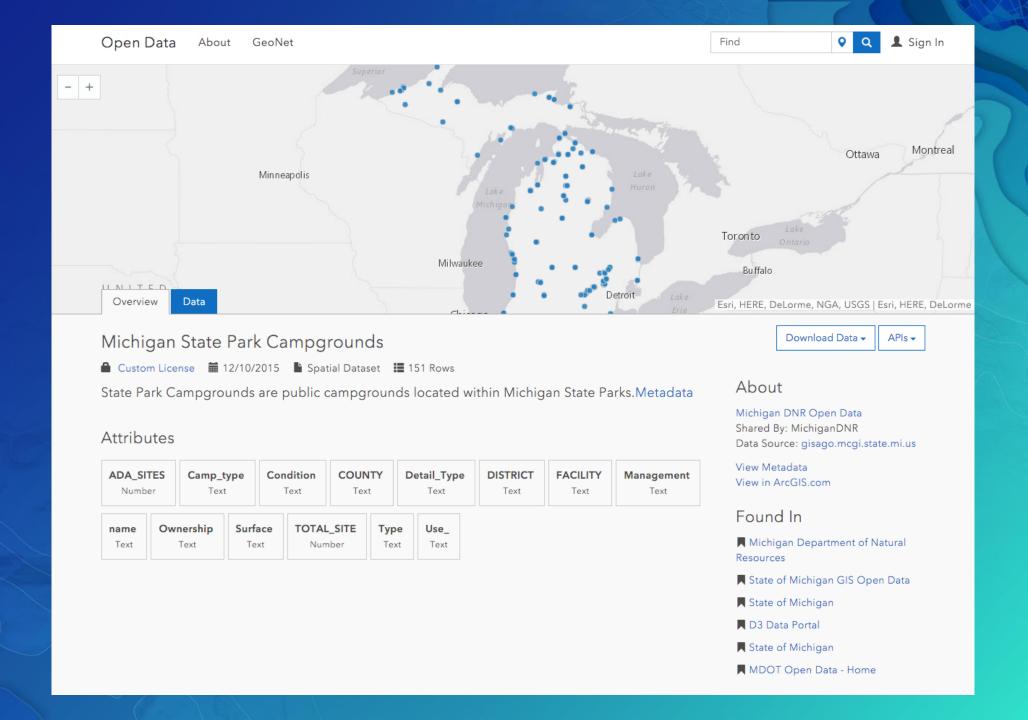






Leverages existing services and familiar workflows







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 <u>more</u>.

GET STARTED

SEARCH OVER 194,832 DATASETS



Federal Student Loan Program Data



BROWSE TOPICS















Agriculture



Climate

Consumer

Ecosystems

Education

Energy



Finance



Health



Local Government



Manufacturing



Ocean



Public Safety



Science & Research



