



Getting started with open data and ArcGIS Hub

Graham Hudgins, esri product engineer

An abstract 3D architectural graphic on the right side of the slide. It features various geometric shapes, including rectangular blocks and lines, in shades of blue, orange, and green. Some shapes have intricate patterns or textures, such as a grid or a complex network of lines. The overall style is modern and technical, suggesting a focus on data and technology.

**GIS
INSPIRING
WHAT'S
NEXT**

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
- Maturing your open data and demonstrating civic initiatives
- Where is esri taking open data and the ArcGIS Hub

An overview of open data

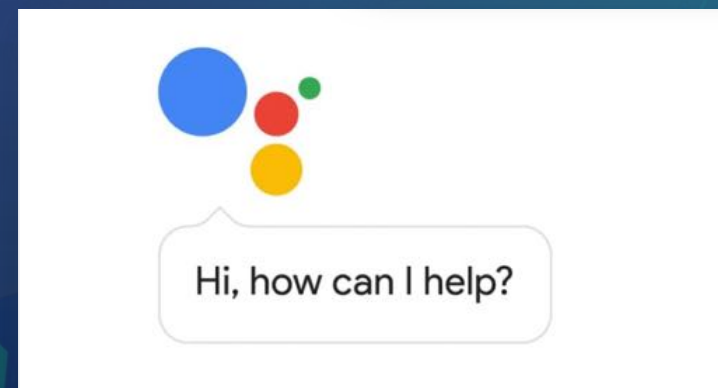
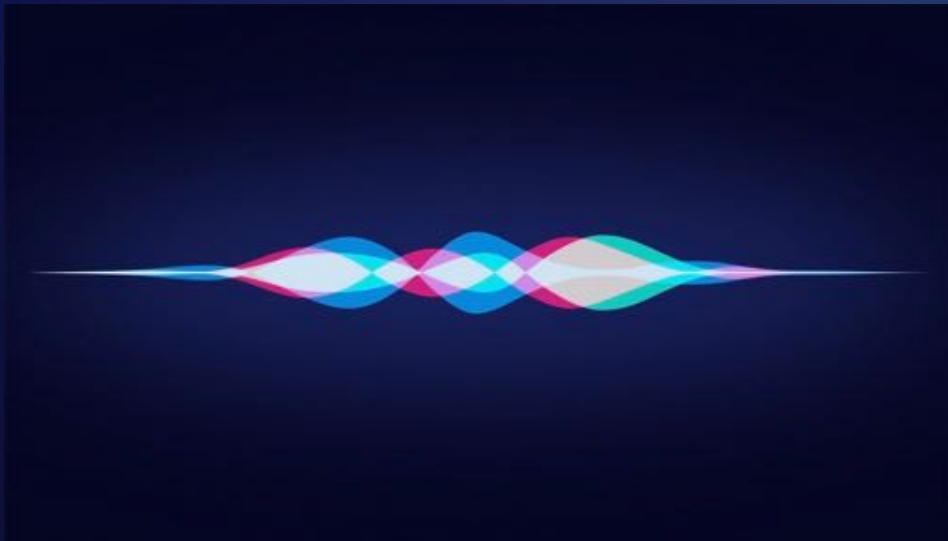
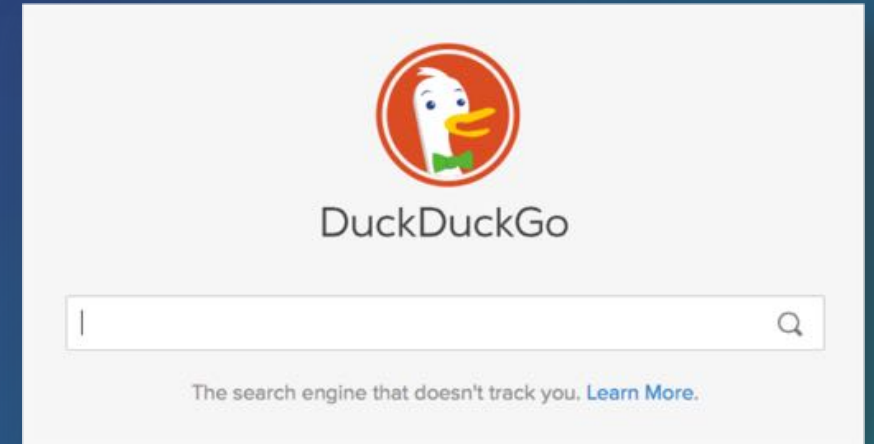
The background features a dark blue gradient with a faint grid pattern. In the bottom corners, there are abstract, colorful geometric shapes in shades of orange, red, and blue, resembling stylized buildings or data structures.

Historically, how is data shared?

- Cloud file systems (dropbox/drive/box). physical media, 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” or try to “buy” data



Where do YOU go for information



Modern Expectations of Sharing

- People expect data to be on the internet
 - International movement to provide transparency (FOIA) and enable economic development
 - Formalized process to license and share data to the public
 - Often supported by governing legislation
- Solutions connected to the system of record
 - The data should be up to date...it's 2018!
 - Minimal impact on the information workers



Agency Staff

Community Leaders

Citizens

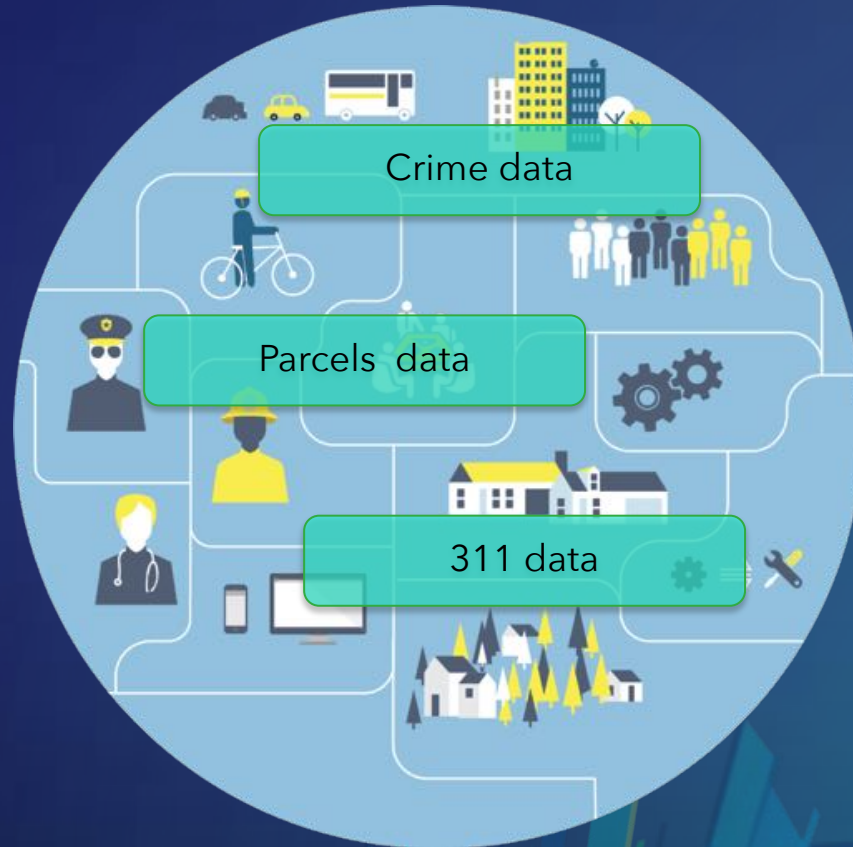
Academia

Start-Ups

YOU

OPEN DATA

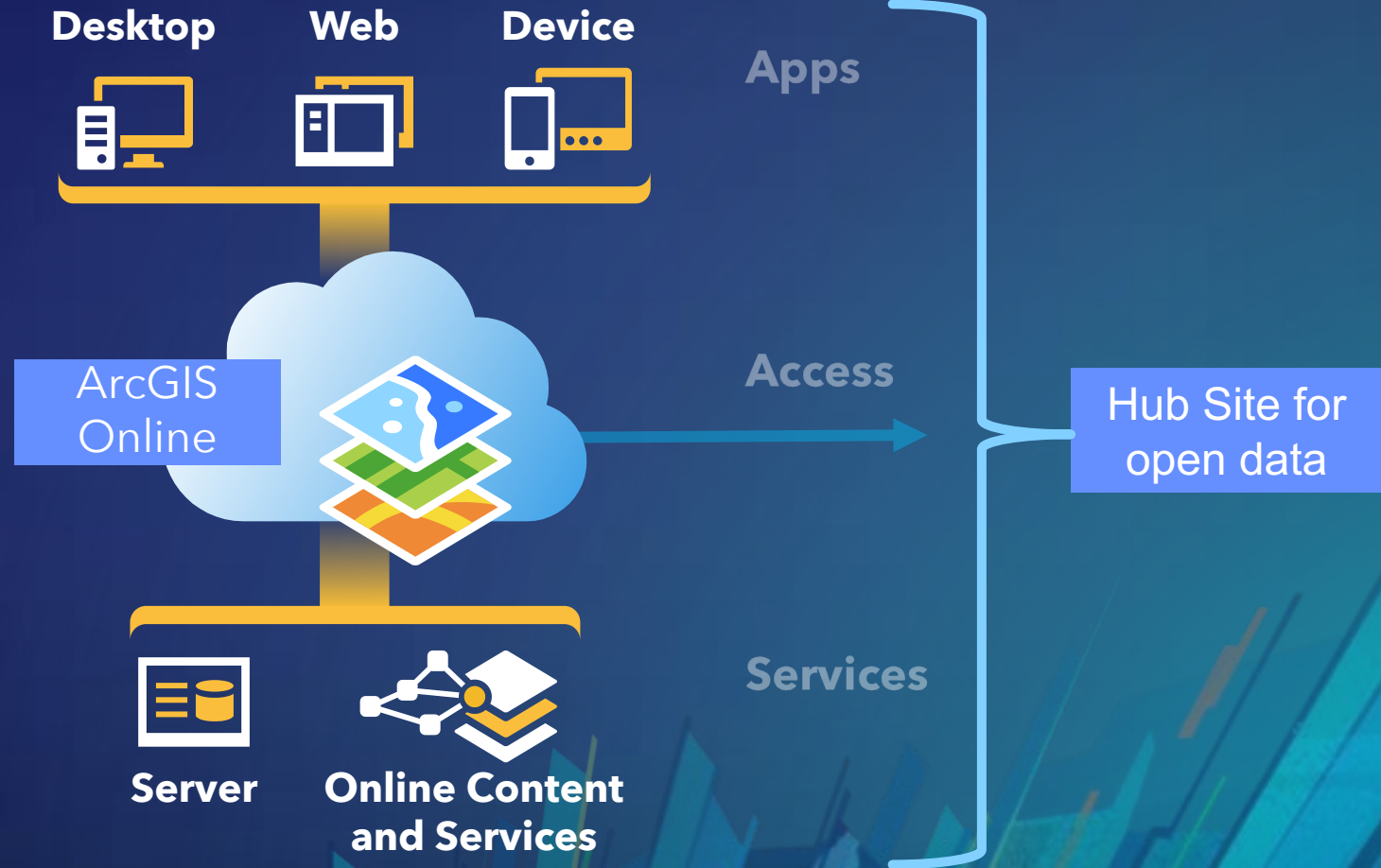
Sharing data doesn't just help the public...it helps the university too



Part of the ArcGIS Platform

Providing open access to your published data

Simple
Integrated
Open



ArcGIS Hub is a complete Open Data solution

Open Data

/ˈɒpən ˈdɑːdə/

noun

data that can be freely used, re-used and redistributed by anyone.

(Open Definition)



Share Open Data in Minutes

As part of your ArcGIS Online subscription, you can share your authoritative open data. Use your existing ArcGIS Online groups to identify data to share, then quickly set up public-facing websites for people to easily find and download your data in a variety of open formats. Your open datasets are connected to the source and are automatically updated.



[Enable Open Data](#)

Search Data

Find

Near



Total Datasets

100,455

Organizations Worldwide Sharing Open Data

5,441

Browse by Categories



Safe

Crime



Prosperous

Demographics

Hub Sites are built following these principles



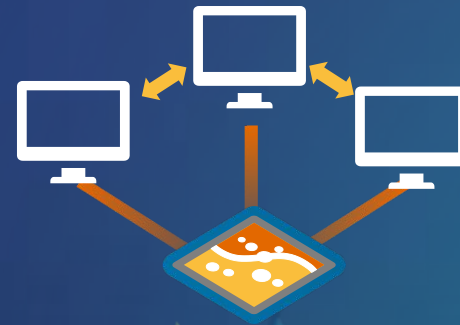
Accessible



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
 - 100,000+ Datasets shared into Open Data
 - 15,000,000+ Downloads in 2017
- 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**

Leverages existing services and familiar workflows



ArcGIS Hub Search

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

Examples

Homeland Infrastructure Foundation-Level Data (HIFLD)

DHS.GOV DHS.GI FGDC.GOV HIFLD GEOPLATFORM

HIFLD Open Data

This site provides National foundation-level geospatial data within the open public domain that can be useful to support community preparedness, resiliency, research, and more. The data is available for download as CSV, KML, Shapefile, and accessible via web services to support application development and data visualization.

For updates about HIFLD data, guidance on metadata, and known shapefile conversion issues, please access the HIFLD notifications page located [here](#).

Find Data

Search HIFLD Open

Explore All Data

Explore Categories

- Agriculture
- Borders
- Boundaries
- Chemicals
- Commercial
- Communications
- Education
- Emergency Services

Federal Aviation Administration

FAA.GOV DATA INNOVATION CENTER

Welcome to the FAA's Aeronautical Data Delivery Service

We have the data, you have the fresh ideas. Let's bring them together.

Search FAA AIS Open Data

Explore All Data

Access Data

Search for and download the underlying product data associated with many of the FAA's aeronautical products. For information about which products are included in this data set, please refer to our [status map](#).

- Explore**
Dig into the data.
- Visualize & Analyze**
Highlight spatial patterns and discover trends.
- Build**
Develop new apps using templates and APIs.
- Data Dictionary**
Gain meaningful insights.

Explore Categories

- Airports
- Airspace
- Communications
- Designated Points
- Holding Patterns
- ILS
- Nav aids
- Notes
- Radial Bearings
- Routes

Open DATA

Towns

1 - Search and Download the Data

2 - Download the Data

Cities

Washington DC Open Data

Federal

HUD DATASETS

Multinational NGO

Local

Map of Madison County Virginia

Regions

"We will provide efficiency, effectiveness and transparency"

Browse Topics

National

Engagement Maturity Path



**Administrators:
Get your organization ready for Hub**

Enabling Open Data – 4 things

Open Data is enabled for your Org

An Open Data group is created with content shared to it

A Hub Site is created that uses the Open Data Group

Non-Admin users in your org who you want to work on your site are empowered

Demo – Enable Open Data

- Enabling open data (a few options)
- Setting up user roles for non-admins

Building a data catalog

The background features a dark blue gradient with abstract, colorful geometric shapes and lines in shades of orange, red, and teal, creating a modern, data-centric aesthetic.

Getting data and services ready from desktop

- Humanize your attributes with attribute aliases



Overview

Data

API Explorer

Reports

ACS 5 Year Housing Data by Place As of 2013

Showing 1 to 10 of 29,509

▼ NAME	▼ B25002EST1	▼ B25002EST2	▼ B25002ES_1
Abanda	23	23	100
Abbeville	1273	1112	87.35
Adamsville	1973	1730	87.68
Addison	463	406	87.69
Akron	278	172	61.87
Alabaster	11391	10587	92.94
Albertville	7809	7079	90.65
Alexander City	6382	5642	88.4
Alexandria	1513	1428	94.38
Aliceville	1566	1351	86.27

1

2

3

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10

Overview

Data

API Explorer

Reports

New ACS 5 Year Housing Data by Place As of 2013

Showing 1 to 10 of 29,509

▼ Name of Place	▼ Total: Housing units	▼ Occupied housing units	▼ Occupied housing units as a %
Abanda	23	23	100
Abbeville	1273	1112	87.35
Adamsville	1973	1730	87.68
Addison	463	406	87.69
Akron	278	172	61.87
Alabaster	11391	10587	92.94
Albertville	7809	7079	90.65
Alexander City	6382	5642	88.4
Alexandria	1513	1428	94.38
Aliceville	1566	1351	86.27

1

2

3

4

5

6

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10

Table Of Contents

Layers

- Common_Core_of_Data_20102011

Layer Properties

General | Source | Selection | Display | Symbology | Fields | Definition Query | Labels | Join & Related | Time | HTML Popup

Options

Choose which fields will be visible

- FID
- Shape
- OBJECTID_1
- OBJECTID
- NCES School ID
- search
- Rpt
- learn
- lead
- course
- course
- make
- mdy
- msp
- time
- July
- top
- attend

Appearance

Alias	NCES School ID
Highlight	No
Read-Only	No


Field Details

Data Type	Text
Length	80
Name	ncesid
Allow Null Values	No

Alias

Descriptive name for the field

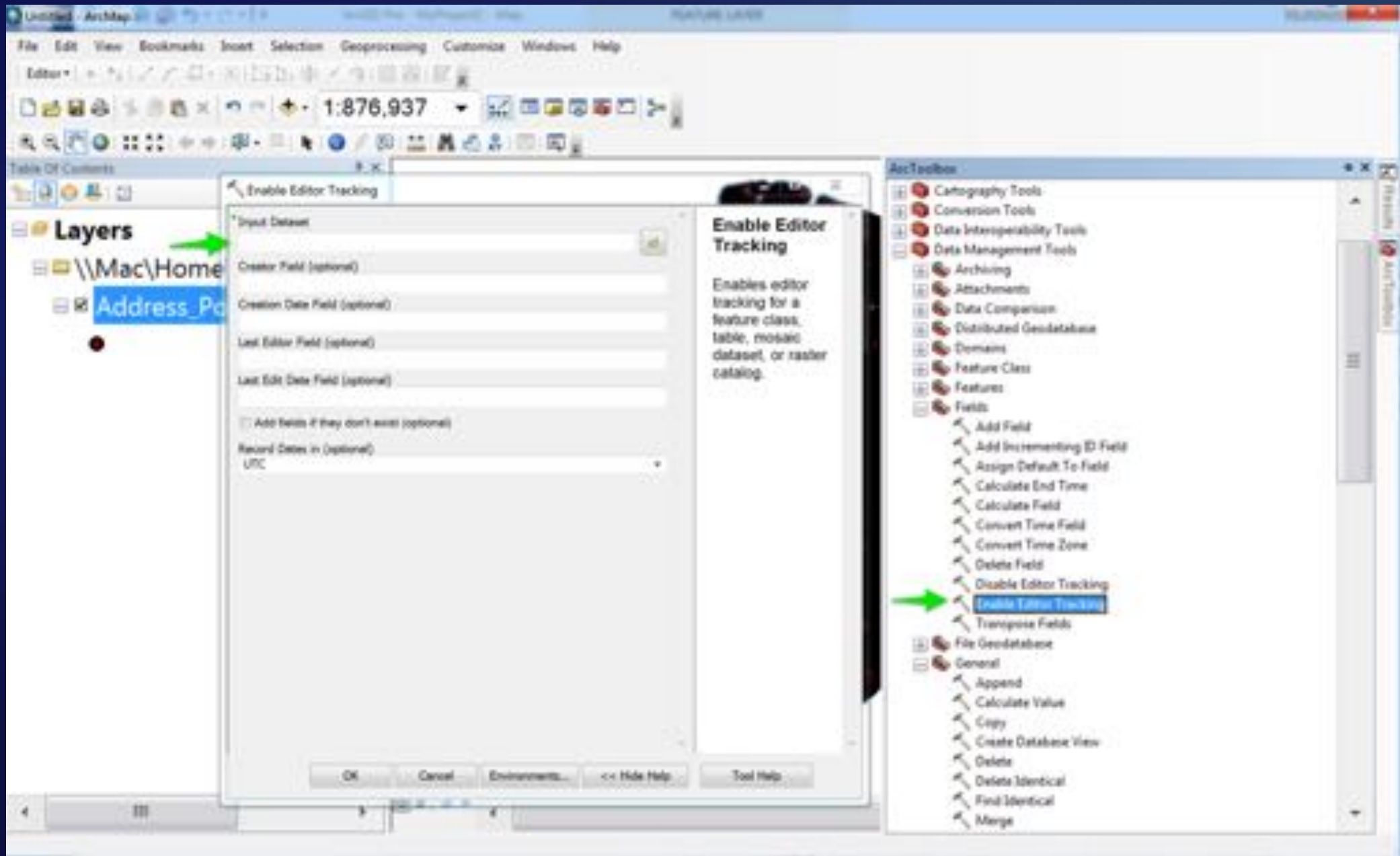
OK Cancel Apply



Getting data and services ready from desktop

- Humanize your attributes with attribute aliases
- Turn on editor tracking





Getting data and services ready from desktop

- Humanize your attributes with attribute aliases
- Turn on editor tracking
- Large data – simplify and reduce the number of vertices



Getting data and services ready from desktop

- Humanize your attributes with attribute aliases
- Turn on editor tracking
- Large data – simplify and reduce the number of vertices
- Server: latest is greatest
- Service parameters
 - Don't alter the default maximum number of records returned from server

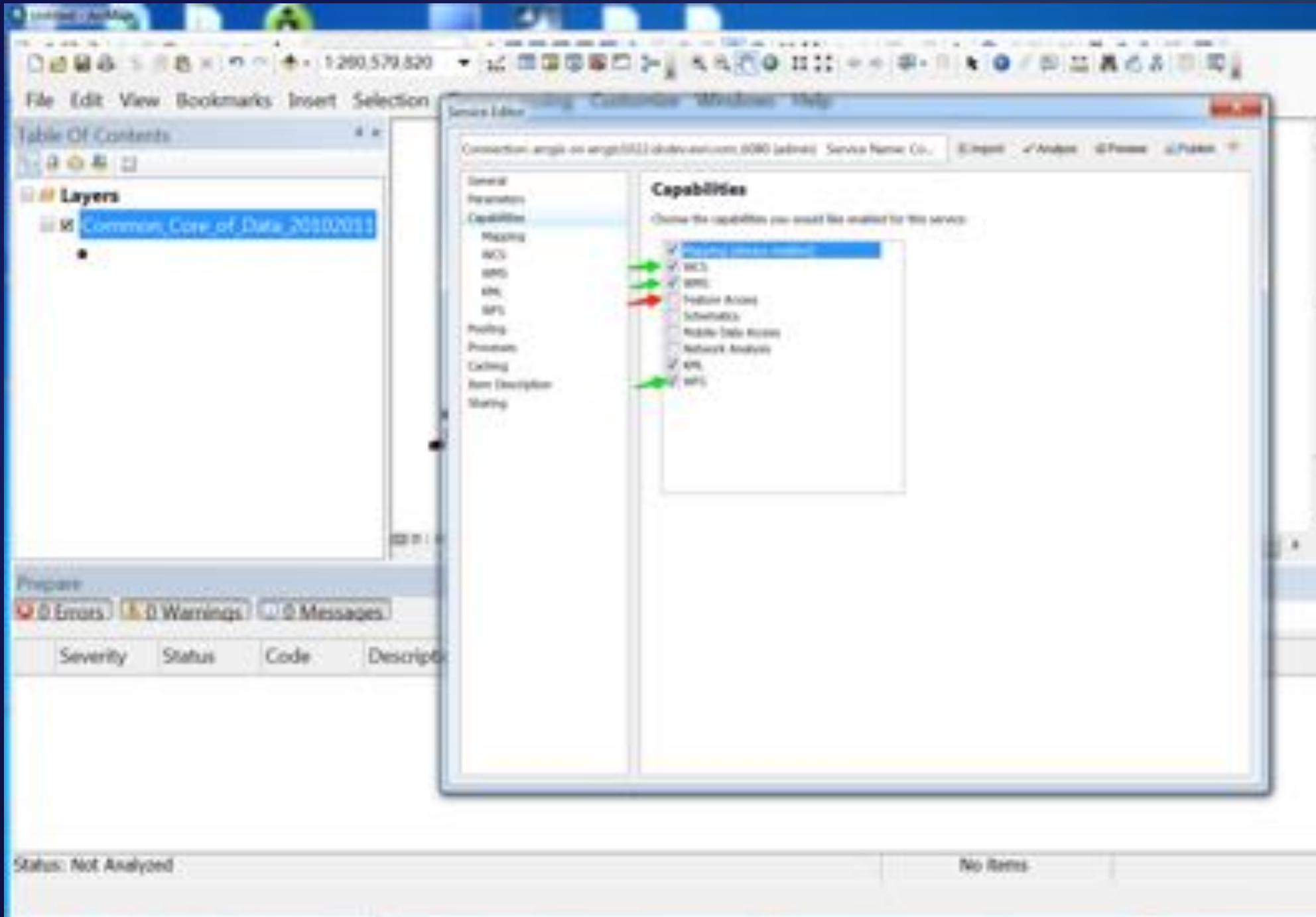


The image shows a software interface with a 'Service Editor' dialog box open over a main application window. The main window has a menu bar (File, Edit, View, Bookmarks, Insert, Selection) and a 'Table Of Contents' panel on the left. Under 'Layers', 'Common_Core_of_Data_2010/2011' is selected. Below the layers panel is a 'Prepare' section showing '0 Errors', '0 Warnings', and '0 Messages'. A table with columns 'Severity', 'Status', 'Code', and 'Description' is partially visible. The 'Service Editor' dialog box is titled 'Service Editor' and shows connection details: 'Connection: engine on engine002@cloudvision.com:6080 (admin) Service Name: Co...'. It has tabs for 'Input', 'Analysis', 'Process', and 'Publish'. The 'Parameters' section includes: 'Document Location' (Original Document: Local), 'Published Document' (The service has not yet been published), 'Auth Missing' (None), 'Auth Missing' (None), 'Test Auth missing' (None), 'Properties' (Maximum number of records returned by the service: 100, with a green arrow pointing to the '100' and a green checkmark icon), 'Advanced' button, 'Queue' (Change the queue handling the service: default), and 'Output Director' (Directory: E:\engines\002\bin\engine002). The status bar at the bottom shows 'Status: Not Analyzed' and 'No Items'.

Getting data and services ready from desktop

- Humanize your attributes with attribute aliases
- Turn on editor tracking
- Large data – simplify and reduce the number of vertices
- Server: latest is greatest
- Service parameters
 - Don't alter the default maximum number of records returned from server
- Service capabilities
 - Enable WMS, WFS, WCS (where applicable)
 - Turn off feature access if not needed







Overview **Data** API Explorer

Independent Schools

Favorite Download Data APIs

7/3/2017 Spatial Dataset 62 Rows

The dataset contains locations and attributes of Independent Schools, created as part of the DC Geographic Information System (DC GIS) for the D.C. Office of the Chief Technology Officer (OCTO) and participating D.C. government agencies.

Attributes

Chart Map Visualization

ADDRESS	GIS_ID	ID	NAME	TELEPHONE	WEB_URL	Zip	SHOW MORE
Text	Text	Number	Text	Text	Text	Text	2 Attributes

Full Dataset

Ab OGC WMS

DCG http://maps2.dcgis.dc.gov/dcgis/

Shar GeoService

Data http://maps2.dcgis.dc.gov/dcgis/

View GeoJSON

Cre https://opendata.arcgis.com/datas

Getting data and services ready from desktop

- Humanize your attributes with attribute aliases
- Turn on editor tracking
- Large data – simplify and reduce the number of vertices
- Server: latest is greatest
- Service parameters
 - Don't alter the default maximum number of records returned from server
- Service capabilities
 - Enable WMS, WFS, WCS (where applicable)
 - Turn off feature access if not needed
- Organize layers (datasets) into multiple services
 - No more than twenty to a service



Hosted or on premises?

- Online is generally better – more performant, better updates, no stress to maintain
- Use ArcGIS Online to host:
 - Large datasets
 - Popular datasets
 - Any data you'd like automatically translated into file geodatabase

Customizing your data

- Structured metadata

Homeland Infrastructure Foundation - Level Data (HIFLD)

Search for open data

Location density of 595,118 features

National Bridge Inventory (NBI) Bridges

Details Table Charts

DESCRIPTION

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.

DATASET ATTRIBUTES

STFIPS	Text
REGION	Text

ABOUT

HIFLD Open - Transportation: Ground
By HIFLD_Admin
Updated: a day ago

Source <https://services2.arcgis.com/1u4Q1mW1o4h17W0/MapServer>
Metadata [National Bridge Inventory \(NBI\) Bridges](#)
License Access Constraint: None (Public Domain)

TAGS

Bridges | National Bridge Inventory | NBI | Transportation

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

- Structured metadata

SAVE CANCEL

General
Home Page
Gallery
Map
Item Details
Groups
Utility Services
Roles
Marketplace
Security
Open Data

Item Details

Configure aspects of your organization related to items.

Comments

Allow members to view and add comments to items.

Metadata ?

Enable metadata for your organization.

Choose the metadata style for your organization. The style controls how the metadata appears and which fields are available for creating it.

- FGDC CSDGM Metadata
- INSPIRE Metadata Directive
- ISO 19139 Metadata Implementation Specification GML3.2
- ISO 19139 Metadata Implementation Specification
- North American Profile of ISO19115 2003

Customizing your data

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

The screenshot displays the HIFLD website interface. At the top, the header includes the HIFLD logo, the text "Homeland Infrastructure Foundation-Level Data (HIFLD)", and a "My Activity" button. Below the header, there are navigation links for "DHS.GOV", "DHS.GI", "FGDC.GOV", and "HIFLD", along with social media icons for Twitter, Facebook, Instagram, YouTube, and LinkedIn. A search bar is located below the navigation. The main content area features a map of the United States with a grid overlay, indicating a "Location density of 93,117 features". Below the map, there are controls for zooming in (+) and out (-), and a search icon. A dropdown menu is open, showing options for "Full Dataset", "Spreadsheet", "KML", "Shapefile", "Filtered Dataset", "Spreadsheet", "KML", "Shapefile", and "File Geodatabase". The dropdown menu also includes "Additional Resources" and "File Geodatabase". The main content area is titled "FDIC Insured Banks" and includes tabs for "Details", "Table", and "Charts". The "DESCRIPTION" section states: "This dataset represents the Summary of Deposits (SOD), the annual survey of branch office deposits for all FDIC-insured institutions including insured U.S. branches of foreign banks. Data are as of June 30, 2015. Users can access these data by: (1) single institution, (2) institutions within a geographic area, or (3) aggregated within a geographic area. SOD features include custom market share reports and downloads. Link: <http://www2.fdic.gov/sod/> Scope of the". The "DATASET ATTRIBUTES" section includes a table with the following data:

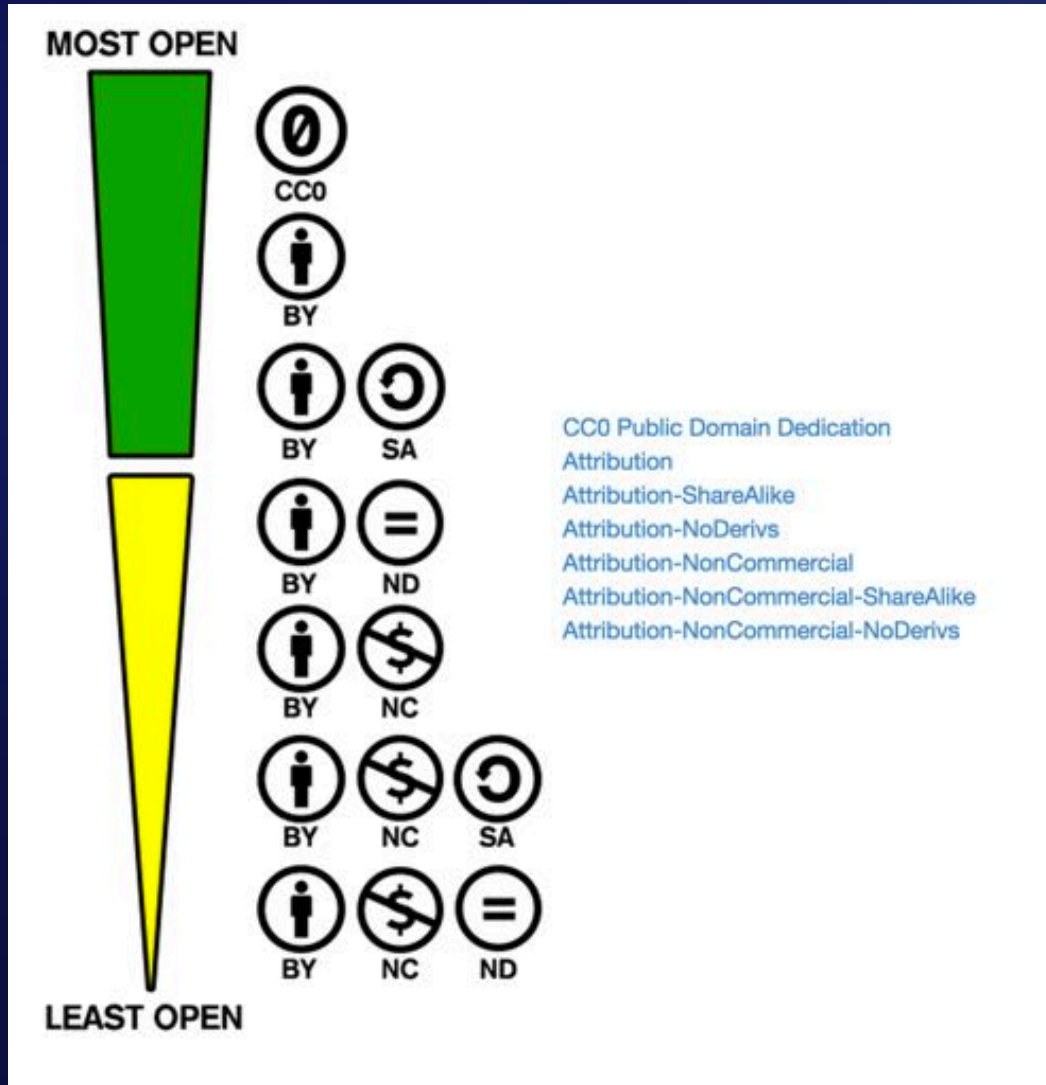
Address (Branch)	100 East Main Street (30), 100 Main Street (26), 1 East Main Street (14), 1 Main Street (11)... (996 more)
Office Number	min: 0 max: 10,299 avg: 1,321.44 count: 93,283

Customizing your data

- Connected content leverages webmaps and apps that use the same service
- Put webmaps using the same layers in the group you use on your site

The screenshot shows the Open Data portal interface. At the top, there are navigation links for 'Open Data', 'About', and 'GeoNet'. A search bar contains 'public schools'. Below the search bar is a map showing a cluster of blue dots representing public schools in the Washington, DC area. The map includes labels for 'Reston', 'Centreville', 'Alexandria', 'Bowie', and 'Annapolis'. Below the map are tabs for 'Overview', 'Data', and 'API Explorer'. The 'Data' tab is selected, showing the 'Public Schools' dataset. The dataset is described as 'No license specified', '2/22/2017', 'Spatial Dataset', and '122 Rows'. It is provided by the Office of the Chief Technology Officer. The 'Attributes' section lists various fields with their data types: ADDR_ID (Number), ADDRESS (Text), ADDRID (Number), BLDG_NUM (Number), CAPACITY (Number), CAPITALGAINS (Text), FACUSE (Text), GIS_ID (Text), LEVEL (Text), NAME (Text), PHONE (Text), POPULATION_ENROLLED_2008 (Number), POPULATION_PLAN (Number), SCH_PROG (Text), SQUARE_FOOTAGE (Number), SSL (Text), STATUS (Text), TOTAL_STUD (Number), UNGRADED (Number), WEB_URL (Text), YEAR_BUILT (Number), and ZIP_CODE (Number). There is a 'SHOW MORE' button for attributes. The 'About' section on the right includes 'Beta site', 'Shared By: dcedminqa', 'Data Source: maps2.dcgis.dc.gov', and links for 'View Metadata', 'Create Webmap', and 'Create a Story Map'. The 'Found In' section lists 'DMFsPlayhouse' and 'jeremy test 75755'. At the bottom, there is a 'Connected Content' section with a 'Related Data' tab. A related item is shown: 'Education School Attendance Zones Map' with a description, date 'MARCH 1, 2016', and author 'Official Web Map: dcedminqa'.

Licensing



EXTREMELY USEFUL to build trust with your community

Demo – Building a data catalog

- Making an open data group
- Bringing in relevant data
- Using the “Share Open Data” initiative

Customizing your website

The background features a dark blue gradient with a faint, light-colored grid pattern. In the bottom corners, there are abstract, colorful geometric shapes in shades of red, orange, yellow, and blue, resembling stylized buildings or data structures.

The Hub Site for your open data needs

- **Pre steps:**
 - Set your organization's shared theme (if you haven't already)
 - Outline your Hub's site map before you begin
- **Site creation through an Initiative**
 - Get access to esri's Share Open Data Initiative Hub site & page templates
- **Site creation in ArcGIS Hub**
 - Start with a blank site and customize

“Can you send me some HTML examples?”

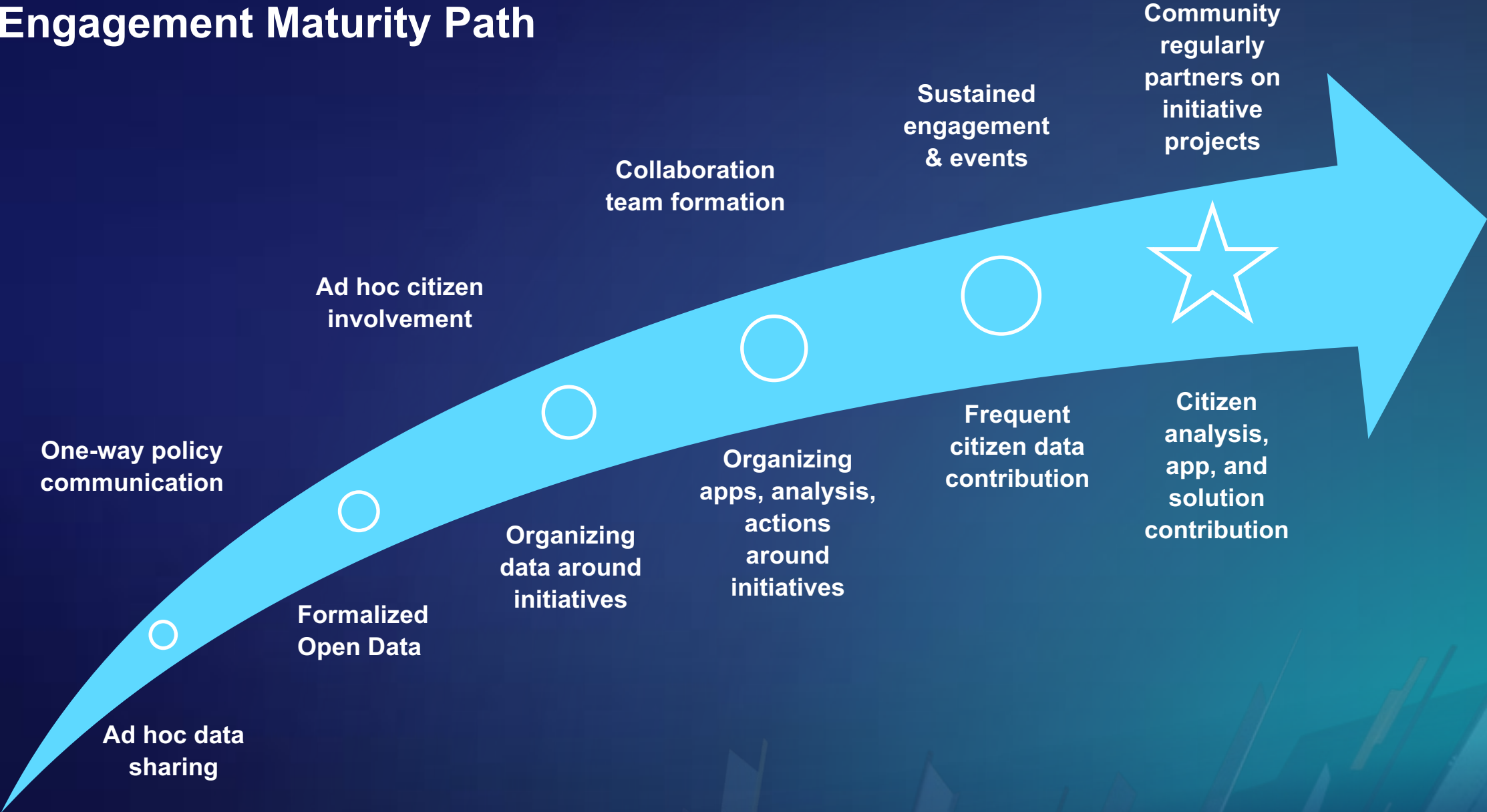
(It's also in the Text card)

<https://hub.arcgis.com/pages/site-customization>

Demo - Customizing your website

- Cards for everything!
- Making your sites and pages
- Custom domains
- HTTPS

Engagement Maturity Path



Launch data driven initiatives

- Use data to tell a story and to drive action
- Problem-first thinking approach to open data
- Engaging! Involve your readers

Departments work in silos



*Open Data only empowers
commercial developers,
journalists, expert citizens*



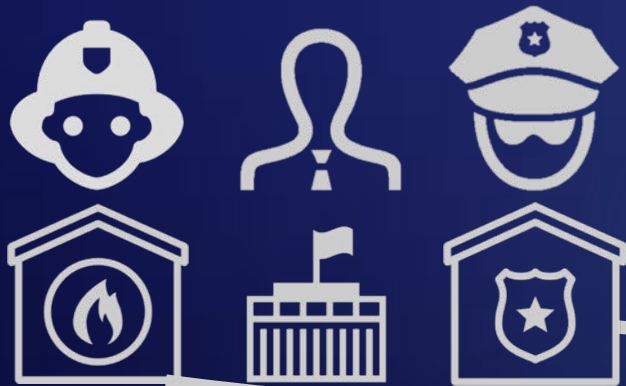
*The chasm: How do you
reach the rest of your
community?*



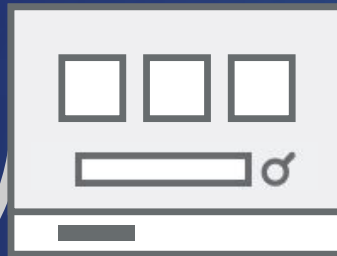
Time



Departments work in silos



Open Data only empowers commercial developers, journalists, expert citizens



Launch initiatives that engage with groups of citizens on community issues
The chasm: How do you reach the rest of your community?



Time



A Platform for Civic Engagement

The screenshot shows the City of Raleigh website's main navigation and content area. The top navigation bar includes 'Home', 'About Us', 'Services', 'Government', 'Business & Community', 'Projects', and 'Public Sustainability'. Below this, there are sections for 'Popular Pages' (listing items like 'Parks & Rec Facilities', 'Miles & City Payment', 'Pollen Park'), 'Council Meetings' (listing 'Wash council meetings on RTN', 'Upcoming Events', 'City Council February 07, 2017 - 12:00 PM'), and 'News' (listing 'Citizen Engagement Task Force (today)', 'Neighborhood RT Program Launch (yesterday)', 'Raleigh Announces Schedule for Districtwide Community Conversation Meetings (3 days ago)').

The screenshot displays the 'Strategic Plan' page. It features a large header image with silhouettes of people and the title 'Strategic Plan'. Below the header, there is a paragraph of text: 'The Raleigh City Council adopted a mission vision statement in April 2012. The Council has continued to set goals that reflect the varied perspectives that represent the varied and diverse identity and character of the city. The plan consists of strategic objectives and strategic initiatives needed to achieve them. City employees will have ownership and will drive forward learning and reporting to these objectives.' The page also includes a 'Learn More' button and a 'What's Next?' section with a small graphic.

The screenshot shows the 'Safe, Vibrant & Healthy' page. It features a large header image with a city skyline and the title 'Safe, Vibrant & Healthy'. Below the header, there is a paragraph of text: 'This is the community's public platform for exploring and downloading open data, discussing and building apps, and engaging to solve important local issues. You can analyze and combine Open Data sets using maps, as well as develop new web and mobile applications. Let's make our great community even better, together!' The page includes three key metrics: 'Emergency Response Times' (8:46 minutes), 'Satisfaction with Park Events' (84 percent satisfied), and 'Participating in Park Events' (11,229 participants). It also features a map of 'Emergency Response Locations' and a 'Learn More' button.

The screenshot displays the 'Transportation & Transit' page. It features a large header image with a person on a bicycle and the title 'Transportation & Transit'. Below the header, there is a paragraph of text: 'Develop an equitable, vibrant transportation network for pedestrians, cyclists, automobile and transit that is linked to regional municipalities, air and rail hubs.' The page includes two objectives: 'Objective 1: Reduce traffic and increase transportation and land use modal resilience through efficient and smart urban design' and 'Objective 2: Increase safety, accessibility, convenience and satisfaction of the transportation network in order to give our residents more choice'. It also features a 'Better Streets' section with a bar chart and a 'Learn More' button.

The screenshot shows the 'Gallery' page. It features a large header image with a city skyline and the title 'Gallery'. Below the header, there is a paragraph of text: 'City of Raleigh Featured Content'. The page includes a grid of featured content items, such as 'Parks', 'TAP 2017 Project Geometry Check', 'TAP 2017 Projects, 2.2.2017', 'Map for Daily Route', 'Route Viewer', 'Due Diligence - Transportation', 'Council District Population Estimates', 'Due Diligence Sessions Map -', 'Due Diligence Sessions Map -', 'Due Diligence Sessions Map -', 'Due Diligence - Public Utilities', and 'Due Diligence - Urban Forestry'. The page also includes a search bar and a 'Sign In' button.

Tell Your Story with a Page

Safe, Vibrant & Healthy

This is the community's public platform for exploring and downloading open data, discovering and building apps, and engaging to solve important local issues. You can analyze and combine Open Datasets using maps, as well as develop new web and mobile applications. Let's make our great community even better, together!

Emergency Response Times
8:46
On Track

Satisfaction with Park Events
84 percent satisfied
Almost met target

Participating in Park Events
11,229 registrations
On Track

Objective 1:
Promote a positive level of real and perceived safety that reflects a thriving atmosphere in which to live, work and play.

Emergency Response Locations
Continue to support the City's goals to keep Raleigh safe through enhanced efforts to strengthen preparedness, response, recovery and mitigation. The City's all-hazards approach will continue to address natural, technological, and manmade disasters, to include acts of terrorism, cyber-attacks, severe weather and energy shortages.

Objective 2:
Preserve and increase the supply of housing for all income groups, including those with supportive service needs.

Unfit Structures
City Code requires that unfit or unsafe structures be repaired or demolished. Properties must be kept in a safe, sanitary and structurally sound condition.

Safety of occupants, neighboring residents, and children is an important consideration. If not properly maintained or secured, properties can become infested with a variety of pests, can be a haven for criminal activity and may attract neighborhood children to play in and around dangerous conditions.

Our Open Vision | Developer API

Header Settings

Theme Builder

Layout Builder

- Row
- Image
- Banner
- Text
- Category
- Contact Info
- Dataset
- Iframe

Footer Settings

Open Data About Developer

Public Schools

Custom Layers: 10/30/2014 Spatial Dataset: 122 Rows

School Ground locations. The dataset contains locations and attributes of school grounds, created as part of the DC Geographic Information System (DC GIS) for the D.C. Office of the Chief Technology Officer (OCTO) and participating D.C. government agencies. Original Data of FACTS

Attributes

ADDR_ID	ADDRESS	ADDRESS	BUILD_NUM	CAPACITY	CAPITALGAINS	FACTS
NAME	PHONE	POPULATION_ENROLLED_2008	POPULATION_PLAN	SCH_PROG	ZIP_CODE	
STL	STATUS	TOTAL_STUD	UNGRADGED	WEEK_URL	YEAR_BUILT	ZIP_CODE

Map of Durham showing school locations with blue pins.

Empty Row

Drag content here from the layout builder.

Text Card


Click the gear icon to edit text in Markdown.

Text Card

Click the gear icon to edit text in Markdown.

Engage Your Community

- Story Maps & Survey Apps for two way communication



Capital Area Greenway Trail System

Help us learn more about Greenways

The Capital Area Greenway System is a network of public open spaces and recreational trails which provides for activities such as walking, jogging, hiking, and exercising, nature study, fishing, sunbathing and outdoor fun. The trails connect many of Raleigh's parks and in many cases provide a complement to the recreational activities at the parks. Many of the city's major ecological features can be appreciated in their natural state along the Greenway. A major goal of the Greenway Program is to establish a connected network of interconnected trails throughout the city.

Share your voice

We want to hear from you. Fill out the survey to share your feedback on our greenways. Your input is immediately available on the map screen and will be used by our teams to improve your city.

Raleigh Greenways

How do you travel greenways? *

Walking

Cycling

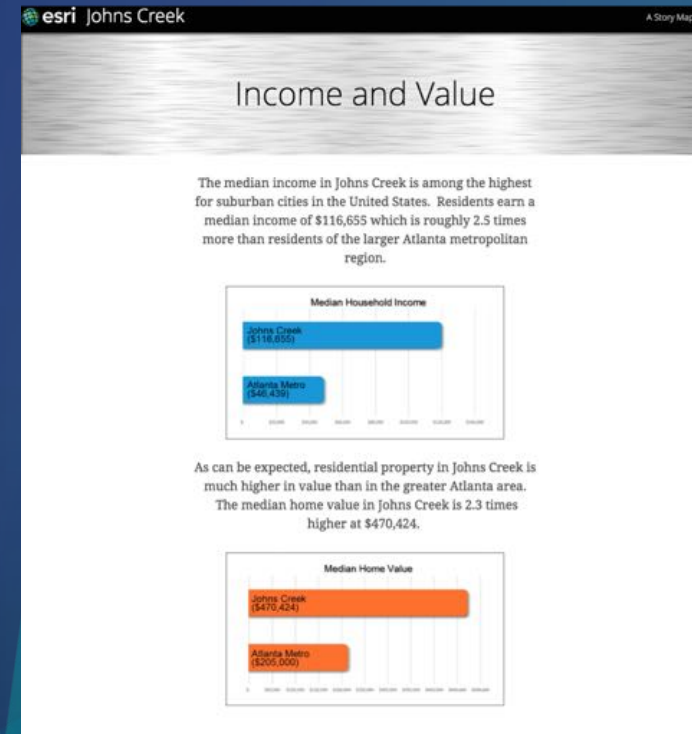
Horseback

Other

Do you want to be contacted with more questions?

Share an image of your favorite Greenway

[Click here to upload file. \(1 MB\), support.gis.gang.org.plf](#)



esri Johns Creek A Story Map

Income and Value

The median income in Johns Creek is among the highest for suburban cities in the United States. Residents earn a median income of \$116,655 which is roughly 2.5 times more than residents of the larger Atlanta metropolitan region.

Median Household Income

City	Median Household Income
Johns Creek	\$116,655
Atlanta Metro	\$46,439

As can be expected, residential property in Johns Creek is much higher in value than in the greater Atlanta area. The median home value in Johns Creek is 2.3 times higher at \$470,424.

Median Home Value

City	Median Home Value
Johns Creek	\$470,424
Atlanta Metro	\$205,000

Demo - Private data on Hub Sites

- Your open data site can now be a resource for your colleagues too

Data federation

The background of the slide is a dark blue gradient. It features a faint, light-colored grid pattern that is slightly offset from the center. In the bottom corners, there are clusters of colorful, 3D-looking geometric shapes in shades of red, orange, yellow, and blue, creating a sense of depth and complexity.

Leverages existing services and familiar workflows

Open Data Site



Your Organization

Other
Organization's



Michigan State Park Campgrounds

[Download Data](#) [APIs](#)

Custom License 12/10/2015 Spatial Dataset 151 Rows

State Park Campgrounds are public campgrounds located within Michigan State Parks. [Metadata](#)

Attributes

ADA_SITES Number	Camp_type Text	Condition Text	COUNTY Text	Detail_Type Text	DISTRICT Text	FACILITY Text	Management Text
name Text	Ownership Text	Surface Text	TOTAL_SITE Number	Type Text	Use_ Text		

About

Michigan DNR Open Data
 Shared By: MichiganDNR
 Data Source: [gisinfo.migi.state.mi.us](#)
[View Metadata](#)
[View in ArcGIS.com](#)

Found In

- Michigan Department of Natural Resources
- State of Michigan GIS Open Data
- State of Michigan
- D3 Data Portal
- State of Michigan
- MDOT Open Data - Home

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](#).

GET STARTED

SEARCH OVER 194,832 DATASETS



BROWSE TOPICS



Agriculture



Business



Climate



Consumer



Ecosystems



Education



Energy



Finance



Health



Local
Government



Manufacturing



Ocean



Public Safety



Science &
Research

Demo – Federating with data.gov

What's next for ArcGIS Hub

The background features a dark blue gradient with a faint, light-colored grid pattern. In the bottom corners, there are abstract, colorful geometric shapes in shades of orange, red, and blue, resembling stylized buildings or data structures.

Non-Reliance Notice

Coming soon

Features that will be out in 1-2 months



Jul 28 AngelHack Washington D.C. Hackathon 2018

Saturday, July 28, 3:00 PM EST

Organized by [Bob Wiley](#) +2 others

Attend

Interested

Share



[Data Smart City Solutions](#)
Well-Run

Follow

Event Details

Every year, AngelHack adventures across the globe for our yearly Global Hackathon Series. Over the course of Summer 2018, we'll hit six continents, bridging the gap between Silicon Valley innovation and entrepreneurs all over the world.

This year's theme? Seamless Technology. Hackathons are built for rapid innovation, and rapid isn't always pretty. But no matter the roadblock, broken code or bumps, we continue on and push forward, together. There's no boundary or limit to what we can create.

So join us! Create something cool. Meet great people. Win great prizes. Who knows, your founder journey may begin at The Iron Yard in Washington D.C.!

We offer our own Grand Prize AMD team up with awesome sponsors who have their own challenges and prizes you can go after. Aiming for the "NADC/celebrator route"? Only in it for some cool hardware? Good news, you can go for as many challenges as you want!

[More](#)

Sponsored by



How would you like to get more involved?

We're always open to other well-intentioned comments, interests, and input!

[Send us Your Feedback](#)



Help us identify opportunities to achieve advantageous collaboration

Prizes and teamments are shared openly. Both citizens and infrastructure providers benefit. Work events built on real-world impact. When.

[Send us Your Feedback](#)



Saturday, July 28, 2018, 3 PM - 6 PM EST

<https://www.angelhack.com>

The Iron Yard
1241 G St NW, Washington, DC 20005

[Get Directions](#)



AngelHack Washington D.C. Hackathon 2018

Saturday, July 28, 2018, 3 PM - 6 PM EST

Organized by [Bob Wiley](#) +2 others

Attend

Interested



[Data-Smart City Solutions](#)
Well-Run



Event Details

Every year, AngelHack adventures across

Title*
 30/75
Details**Description***

Every year, AngelHack adventures across the globe for our yearly Global Hackathon Series. Over the course of Summer 2018, we'll hit six continents, bridging the gap between Silicon Valley innovation and entrepreneurs all over the world.

This year's theme? Seamless Technology. Hackathons are built for rapid innovation, and rapid isn't

Related Initiative*

Organizer* ●

Name	Contact Method ●
<input type="text" value="Bob Wiley"/>	<input type="text" value="shunter@esri.com"/> ✕
<input type="text" value="Mario Ortiz"/>	<input type="text" value="212-555-1234"/> ✕
<input type="text" value="Rose Lathigra"/>	<input type="text" value="212-555-1234"/> ✕

[+ Add Organizer](#)

Sponsors ●

Display As	Contact Method ●
<input type="text" value="IBM"/>	<input type="text" value="https://ibm.com/dc/smart-partnerships"/>

[+ Add Sponsor](#)

Where*
 In-Person Online Both


Venue

Address

Address 2 **Attendance Capacity**
 Unlimited Fixed
When*

Start Date	Start Time ●	End Date	End Time	
<input type="text" value="7/28/2018"/>	<input type="text" value="3:00 PM"/>	<input type="text" value="7/28/2018"/>	<input type="text" value="6:00 PM"/>	EST

 All Day Event
Apps




Survey

Quick Poll - Have ideas for 2019?

We're always open to chat with potential sponsors, members, and judges!

[View](#) [Edit](#)




Survey

Help us identify opportunities to achieve advantageous

If data and developments are shared openly, both citizens and infrastructure providers benefit from events such as road resurfacing. When multiple agencies ...

[View](#) [Edit](#)



Add apps to help inform, engage and monitor your attendees.

[Add Existing](#)

[New From Template](#)

Catalogs

Public (25)

Restricted (4)

Filter By

Capabilities

permits downloads (15)

has an api (15)

Tags

Tax (10)

Hamhands (9)

2013 (6)

Act 5-Year (6)

Census Api (6)

More ▾

Owner

Dcadminqa (25)

Content Type

Feature Service (15)

Map Service (9)

Web Map (1)

Source

dcadminqa (25)

Hub Type

Dataset (17)

Map (8)

1 - 10 of 25 results

Relevance ▾

Condos With Ownership Info

Shared by dcadminqa

null

No license specified 4/24/2018 Dataset



Baltimore City Full And Part Time Jobs By Industry: 2001-2040

Shared by dcadminqa

Full and Part Time Jobs in Baltimore City by Industry and by Place of Work from 2001 to 2040.

No license specified 9/9/2018 Dataset



114th Congressional Districts

Shared by dcadminqa

115th Congressional Districts; January 1, 2017 vintage

No license specified 1/21/2015 Dataset



Tree Canopy 2016

Shared by dcadminqa

null

No license specified 6/20/2018 Dataset



Tree Canopy 2011

Shared by dcadminqa

null

No license specified 6/20/2018 Dataset



Tree Canopy 2008

Shared by dcadminqa

null

No license specified 6/20/2018 Dataset



Resource Protection Buffer

Shared by dcadminqa

null

No license specified 6/20/2018 Dataset



Explore Initiatives

Create New Initiative

All Themes

Search



Address Opioid Epidemic

Healthy, Safe

Details

Preview



Avoid Obesity Epidemic

Details

Preview



Custom Initiative

Details

Preview



Financial Responsibility

Details

Preview



Grow Your Local Economy

Prosperous

Details

Preview



Increase Community Pride

Liveable, Prosperous

Details

Preview





















































Initiatives

Initiatives Manager

Gallery

Search Initiatives

View By: Templates +

Title	Last Updated	Published	Actions
Address Opioid Epidemic	Jun 27, 2018	  	 
Address Opioid Epidemic - BR	Jul 5, 2018	  	 
Avoid Obesity Epidemic	Dec 14, 2017	  	 
Blue Raster Training	Apr 23, 2018	  	 
Custom Initiative	Mar 1, 2018	  	 
Financial Responsibility	Jan 23, 2018	  	 
Grow your Local Economy	May 8, 2018	  	 
Increase Community Pride	May 29, 2018	  	 
Prevent Vector-Borne Disease	May 8, 2018	  	 
Reduce Homelessness	May 8, 2018	  	 

Template Manager

Increase Community Pride

Template

Editor

Not Published Last updated: May 29, 2018, 3:38 PM

Adopt this initiative and show current or potential residents why your city is the ideal place to Live Work and Play

Language

English

Categories

Livable, Prosperous

Tags


Livable, Prosperous

Inform the Public



Share your data with the public so people can easily find, download and use your data in different formats.

3 Required 0 Optional



Website

Attract Residents

Show current or potential residents why your city is the ideal place to call home.

[Edit Template](#)

[Edit Details](#)

[Share](#) [Download](#) [Print](#) [Preview](#)

3 Required 0 Optional



Application

Community Development Explorer

Leverage this app to show current and potential residents why your city is the ideal place to Live Work and Play

[Edit Template](#)

[Edit Details](#)

[Share](#) [Download](#) [Print](#) [Preview](#)

3 Required 0 Optional



Application

Why Your City?

Share your city's goals and/or mission statement

[Edit Template](#)

[Edit Details](#)

[Share](#) [Download](#) [Print](#) [Preview](#)

Community Development Explorer Template

Community Development Explorer Key:

Click an indicator to insert at the current cursor location.

Data Template

Item Template

Saved

Import Template

```

1 - {
2   "source": "c941574c955048d893db49e0b94c53f4",
3   "folderId": null,
4   "values": {
5     "applicationCode": "community",
6     "theme": "light",
7     "has3dScene": false,
8     "sceneServer": "",
9     "webmap": "{{(economicDevelopmentMap.item.id))",
10    "cityName": "{{(organization.name))",
11    "initial5dGeographyID": "",
12    "startupCommunityCategoryFooterCard1Title": "Welcome To {{(organization.name))",
13    "startupCommunityCategoryFooterCard1Content1": "Explore all that the city has to offer for
14    potential businesses using the left-hand icons on the map above",
15    "startupCommunityCategoryFooterCard1Content2": "City summary information is displayed until
16    an address is specified, at which point information within a mile of the address is
17    shown",
18    "startupCommunityCategoryFooterCard3Title": "Doing Business In {{(organization.name))",
19    "startupCommunityCategoryFooterCard3Content": "{{(organization.name)) offers unparalleled
20    opportunities for businesses and organizations of all sizes.",
21    "tapestryCommunityCategoryLabel": "Who Lives Here?",
22    "tapestryCommunityCategoryDescription": "Explore neighborhoods and find where you fit in.
23    Neighborhoods are classified into 67 unique segments based on socioeconomic and
24    demographic composition.",
25    "tapestryCommunityCategoryFooterCard1Title": "Doing Business in {{(organization.name))",
26    "tapestryCommunityCategoryFooterCard2Title": "Lifestyle Sectors",
27    "tapestryCommunityCategoryFooterCard3Title": "{{(organization.name)) Demographic Snapshot",
28    "demographicsCommunityCategoryLabel": "Demographics",
29    "demographicsCommunityCategoryDescription": "Explore demographic characteristics",
30    "demographicsCommunityCategoryFooterCard2Title": "",
31    "zoningCategoryLabel": "Zoning & Development",
32    "zoningCategoryDescription": "Gain a competitive edge by locating underutilized areas &

```

Templates

Indicators

Initiative

Organization

Portal Hostname

Url Key

Id

Name

Portal Base Url

Custom Base Url

Extent

Extent xmin

Extent ymin

Extent xmax

Extent ymax

Extent wkid

Contact Us Url

Contact Us Visible

Theme Logo Url

Theme Logo Link

Community Org Id

Community Org Portal Hostname

Show Social Media Links

Open Data Group Id

 Secure | https://

HTTPS for your custom domains



Write a 2-3 sentence overview of your initiative. Why should people care or want to get involved? Keep it short in length like an elevator pitch. You should include the timeline to achieve your initiative in your 2-3 sentences.



The Goal
 State your goals. For example, Our City aims to reduce its carbon emissions to zero by 2025. This challenge has raised several areas for improvement, such as, public transportation, public parks, solar and wind powered public buildings, solar initiatives for homeowners, and community farming.

Our Progress So Far

Leverage this section to share progress or other stats with the public. Make it transparent and exciting to see the results of the hard work or help an initiative needs support. This is also a great space to inspire your audience to potentially get involved.

Statistic Title

Statistic

Source

Statistic Title

Statistic

Source

Statistic Title

Statistic

Source

Get Involved with the Community Today!

Use this section to provide steps on how to get involved, show different phases of your initiative or simply highlight areas of concern.

- 1 **Help improve the air quality**
 Description and associated capabilities non provided, sum in culpa qui officie deserunt mollit anim id est laborum.
- 2 **Report Data**
 Description and associated capabilities non provided, sum in culpa qui officie deserunt mollit anim id est laborum.
- 3 **Become Involved**
 Description and associated capabilities non provided, sum in culpa qui officie deserunt mollit anim id est laborum.
- 4 **Contribute**
 Description and associated capabilities non provided, sum in culpa qui officie deserunt mollit anim id est laborum.

[Contribute](#)

Our Focus

Leverage these sections to tell your initiative story. Provide key information regarding your initiatives with an opportunity to go to a specific page or app to learn more.

Section Heading

>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

[Call To Action](#)

Section Heading

See Our City in Action

Use this section to see your community visitors research time and connect their with reports, apps, and links to other sites, that will give them deeper insights on the initiative regarding your city.

Default Story Map Template

Default template for creating initiative Story Maps

[Explore](#)

Create Your Own StoryMap Template

Default template for creating initiative StoryMaps

[Explore](#)

Gold Standard Optional App

Use this app to summarize the outdoors inside your area.

[Explore](#)

Gold Standard Optional App

Use this app to summarize the outdoors inside your area.

[Explore](#)

List of upcoming events

Search events

July 2018							Jun 28	an event
Sun	Mon	Tue	Wed	Thu	Fri	Sat		
1	2	3	4	5	6	7	Wednesday, 5:30 PM - 1:30 PM EDT 17401 Church St NW, Washington, District of Columbia, 20005	
8	9	10	11	12	13	14		
15	16	17	18	19	20	21		
22	23	24	25	26	27	28		
29	30	31	1	2	3	4		

Sign Up and Follow this initiative

Drive people to sign up for a community account and follow this initiative to receive updates from you. This can be done via social media communication and invitations to host.

[Follow Our Initiative](#)

Contact

Make your site a two-way communication platform with your community. Use this to let them know that you welcome their feedback and that you want to hear from them.

Chart Settings

Chart Type (Required)

Bar chart icon | Line chart icon | Pie chart icon | Scatter plot icon | JSON

Data

Attract new Business and Grow your Local Economy_fieldworker - surveyPoint

Choose Category Attribute (Required)

Filter list by attribute name...

- CreationDate Year
- Creator
- EditDate
- Editor
- How well does our community foster economic prosperity?
- If no, please describe why.
- Do you believe our community is prepared to recover from the economic shock of natural disasters such as a water

Choose Value Attribute

Count

Filter list by attribute name...

- CreationDate
- Creator
- EditDate
- Editor
- How well does our community foster economic prosperity?
- If no, please describe why.
- Do you believe our community is prepared to recover from



Help Build Loudoun's Future

Loudoun county planning initiative

Explore



Help Build Loudoun's Future

Loudoun county planning initiative

Explore

ArcGIS Hub Coming Features

UC 2018

Q3 2018

Q4 2018 and Beyond

Engagement & Collaboration

- Adding community members to initiative teams
- New charting for sites & pages
- New attractive site templates
- Easier site editing
- Initiative Activity dashboard
- Community member profiles
- Community account creation with any email address
- Improved search (semantic search)
- New Events system
- Commenting and discussions tool
- Improved initiative data management
- New crowdsourcing app
- New "what's around me" app
- New, streamlined user experience
- ArcGIS Hub and ArcGIS Urban Integration

Initiative Templates

- Tackle the Opioid Epidemic 2.0
- Reduce Homelessness 2.0
- Prevent Vector Borne Disease 2.0
- Vision Zero - Reduce Pedestrian Deaths 2.0
- Initiative Template Builder 1.0
- Performance Management (new)
- Maximize Infrastructure Investment (new)
- Climate / Community Resiliency
- Volunteerism
- Prepare & Respond to Extreme Weather Events
- Community Planning
- Strategic Planning
- Publishing of custom initiatives

Thank **you** for making your data accessible to
your community

Questions?

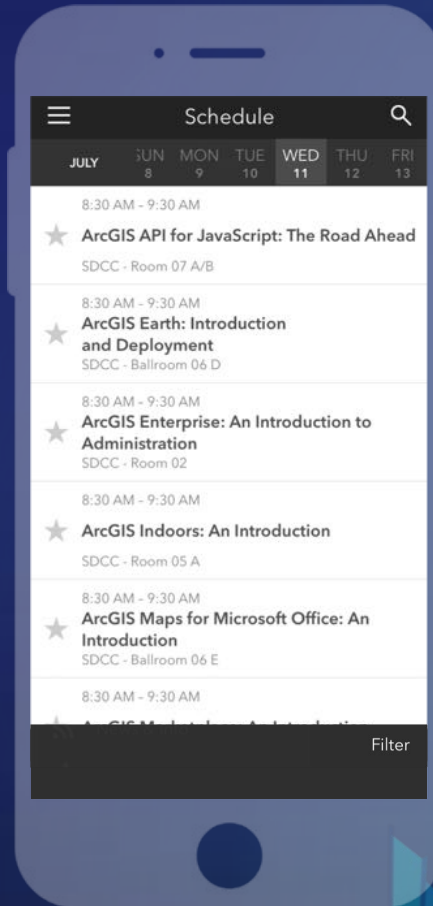
Please Take Our Survey on the **Esri Events App!**

Please Take Our Survey on the App

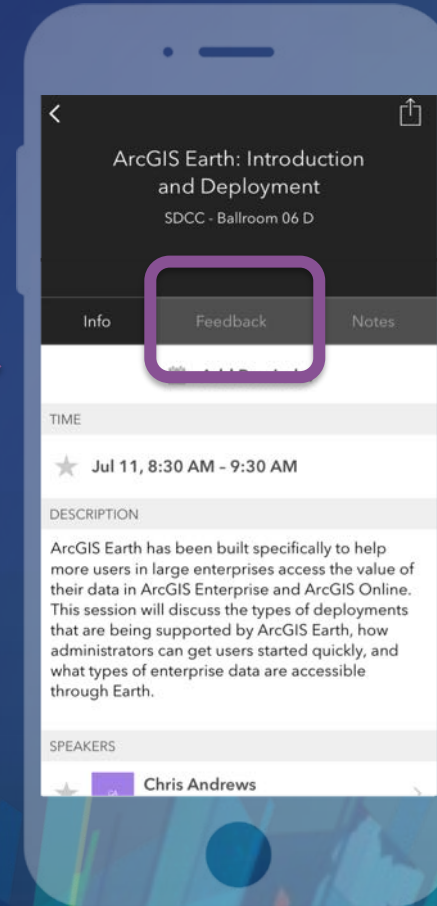
Download the Esri Events app and find your event



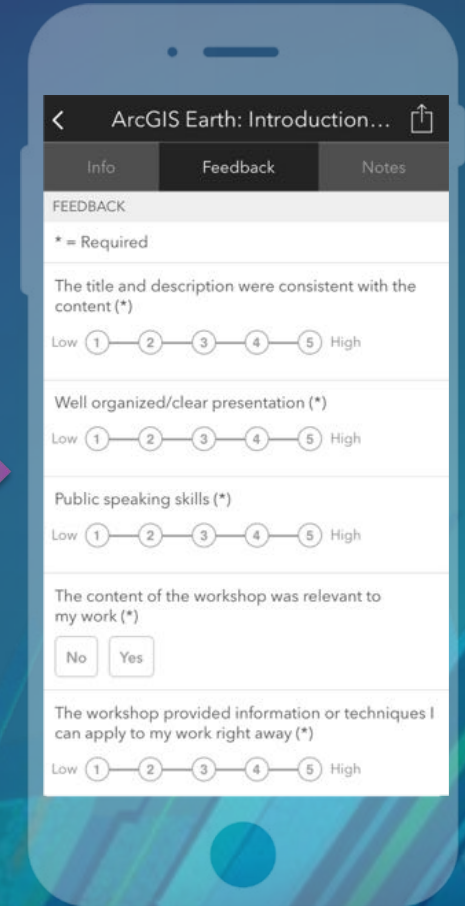
Select the session you attended



Scroll down to find the feedback section



Complete answers and select "Submit"



See Us Here

WORKSHOP

- Title

LOCATION

- Where

TIME FRAME

- 12:00 – 1:00



esri

THE
SCIENCE
OF
WHERE