Getting started with open data and initiatives in the ArcGIS Hub

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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
Open data overview

Why open data
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
An INNOVATION ECOSYSTEM

- Agency Staff
- Citizens
- Academia
- Community Leaders
- Start-Ups
Part of the ArcGIS Platform
Providing open access to your published data

Simple
Integrated
Open

Desktop  Web  Device

ArcGIS
Online

Server  Online Content and Services

Apps  Access  Services

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
Quick demo

- Working with an open data site
- Administering open data inside the ArcGIS Hub
Building a data catalog
Customizing your data

• Structured metadata
Customizing your data

- Add additional download types
  - Custom download distribution on structured metadata
Customizing your data

- Connected content
Leverages existing services and familiar workflows

ArcGIS for Server

Cloud Storage

Content and Services

ArcGIS Online Groups

ArcGIS Open Data

External APIs
Open Data Workflows
Auto ETL and Custom Search

- 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
Welcome to the FAA’s Aeronautical Data Delivery Service

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

The FAA is dedicated to providing the public with data to spur innovation, provide better opportunities for the development of new applications and services, and ultimately, advance the safety and efficiency of the aviation industry. The Aeronautical Data Delivery Service is an FAA web portal and service that makes data available in CSV, JSON, XML, Shapefile formats to meet the needs of developers and other stakeholders.

Access Data

Search for and download the underlying products data associated with many of the FAA’s aeronautical products. For information about which products are included in the data set, please refer to our status map.

Explore Categories

- Airports
- Airspace
- Communications
- Designated Points
- Insulating Patterns
- Notes
- Radial Bearings
- Routes
Building your community

Open Data Site

Citizens
Startups
Academia
NGOs
Analysis
Visualizations
Applications
Dashboards
Story Mapping
APIs
Developers
Journalists
More…

Building your community
Launch data driven initiatives

- Use data to tell a story and to drive action
- Problem-frist thinking approach to open data
Open Data only empowers commercial developers, journalists, expert citizens.

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

Departments work in silos.

Time

Everyday Citizens
Departments work in silos

Open Data only empowers commercial developers, journalists, expert citizens

End homelessness

Everyday Citizens

Launch initiatives that engage with groups of citizens on community issues

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

Address opioid addiction

Improve storm preparedness
A Platform for Civic Engagement

Inside
City-wide Collaboration

Outside
Public Engagement

- Living Atlas
- Open Data
- Applications
- Story Mapping
- APIs

• County
• State
• Federal
• NGOs...

Citizens
Startups
Academia
NGOs

Engineering
Police
Fire
Planning

DOT, Sanitation, Housing, Metro...
A Platform for Civic Engagement
Tell Your Story with a Page
Engage Your Community

- Story Maps & Survey Apps for two way communication
Data federation
Leverages existing services and familiar workflows

Open Data Site

Your Organization

Other Organization's
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
Federal Student Loan Program Data

BROWSE TOPICS
Agriculture  Business  Climate  Consumer  Ecosystems  Education  Energy
Finance  Health  Local Government  Manufacturing  Ocean  Public Safety  Science & Research
Quick Demo

• Federating with data.gov
What’s next for ArcGIS Hub