Configuring ArcGIS Online for Open Data

Tom Schwartzman, Esri
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
Open Data Principles

Accessible

Discoverable

Explorable

Collaborative
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
ArcGIS is a complete Open Data solution
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
Enable Open Data
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
Building a data catalog
Getting data and services ready from desktop

- Humanize your attributes with attribute aliases
### ACS 5 Year Housing Data by Place As of 2013

Showing 1 to 10 of 29,509

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<thead>
<tr>
<th>Name</th>
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</table>

### New ACS 5 Year Housing Data by Place As of 2013

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<table>
<thead>
<tr>
<th>Name of Place</th>
<th>Total: Housing units</th>
<th>Occupied housing units</th>
<th>Occupied housing units as a %</th>
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Getting data and services ready from desktop

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- Service parameters
  - Don’t alter the default maximum number of records returned from server
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- Service capabilities
  - Enable WMS, WFS, WCS (where applicable)
  - Turn off feature access if not needed
Independent Schools

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 (CCTO) and participating D.C. government agencies.

Attributes

- ADDRESS
- GIS_ID
- ID
- NAME
- TELEPHONE
- WEB_URL
- ZIP

SHOW MORE
2 Attributes
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
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• 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 – better performance, better updates
- Use ArcGIS Online to host:
  - Large datasets
  - Popular datasets
  - Any data you’d like automatically translated into file geodatabase
Customizing your data

• Structured metadata
Customizing your data

- Structured metadata
Customizing your data

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

- Can’t really use it if it’s not licensed
- EXTREMELY USEFUL to build trust with your community