

# ArcGIS Open Data Get Started – and Use Best Practices

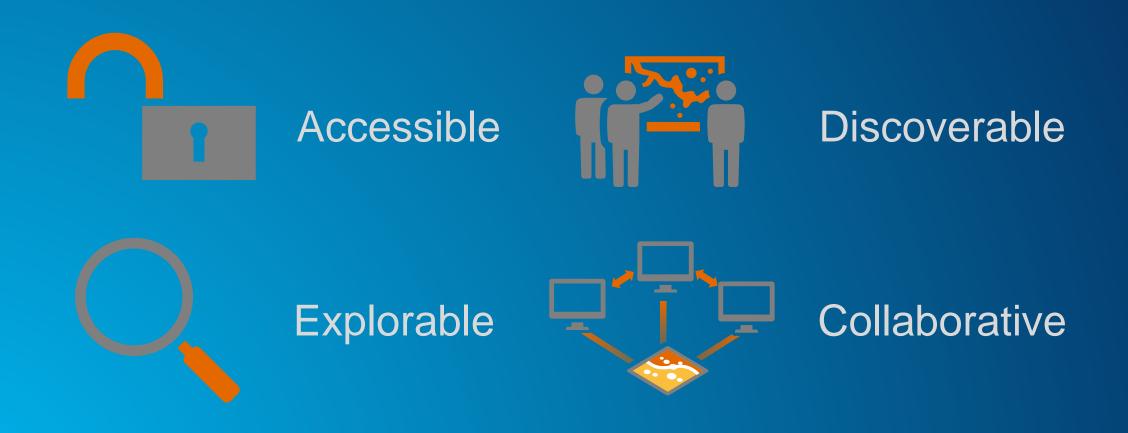
Scott Moore Esri

#### Agenda

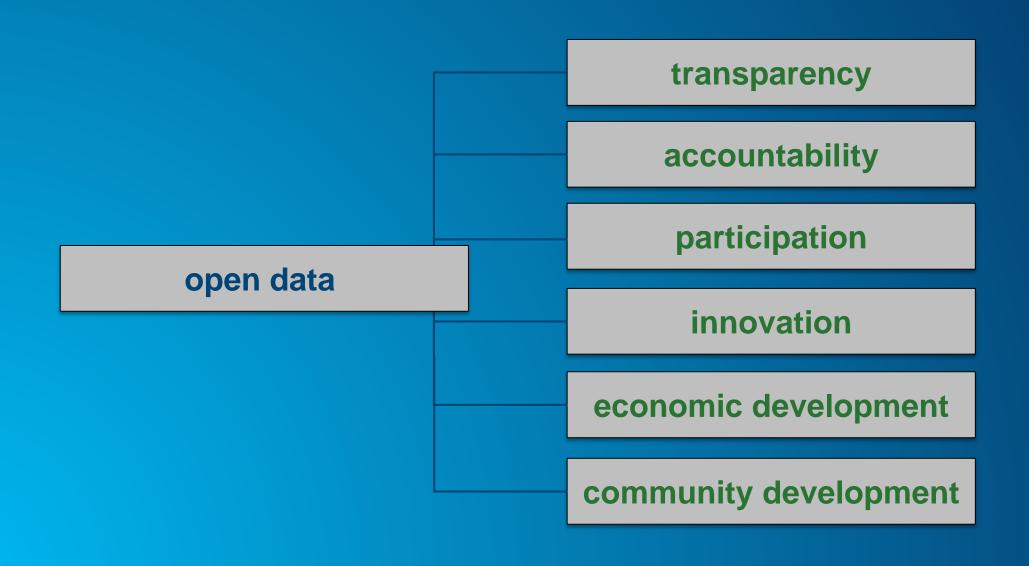
- What is Open Data and why it matters
- What is ArcGIS Open Data?
  - Exercise 1: Explore ArcGIS Open Data sites
- Data preparation and organization workflows
  - Exercise 2: Create content for ArcGIS Open Data
- Creating an Open Data site
  - Exercise 3: Create an ArcGIS Open Data site
- Customizing the Open Data site
  - Exercise 4: Customize your ArcGIS Open data site \*
- Promoting your Open Data site
- Advanced topics

# What is Open Data – and why it matters

### **Open Data principles**



### Why does Open Data matter?



# What is ArcGIS Open Data?

#### Share Live ArcGIS Open Data in Minutes

As part of your ArcGIS Online subscription, you can use ArcGIS Open Data to share your live authoritative open data. Esri-hosted ArcGIS Open Data gives you a quick way to set up public-facing websites where people can easily find and download your open data in a variety of open formats.



You Can Easily Share Data with the Public



Anyone Can Use Open Data for Free



Your Data Helps Real People Solve Real Problems



Explore ArcGIS Open Data



You Can Create Your Own Public Open Data Sites



#### You Can Easily Share Data with the Public

ArcGIS Open Data uses the ArcGIS Online groups you already have to identify open data, allowing you to quickly publish or remove your open data. Your open datasets automatically sync with the latest version of your sources. It can even integrate with other open data platforms, such as CKAN.

Explore ArcGIS Open Data



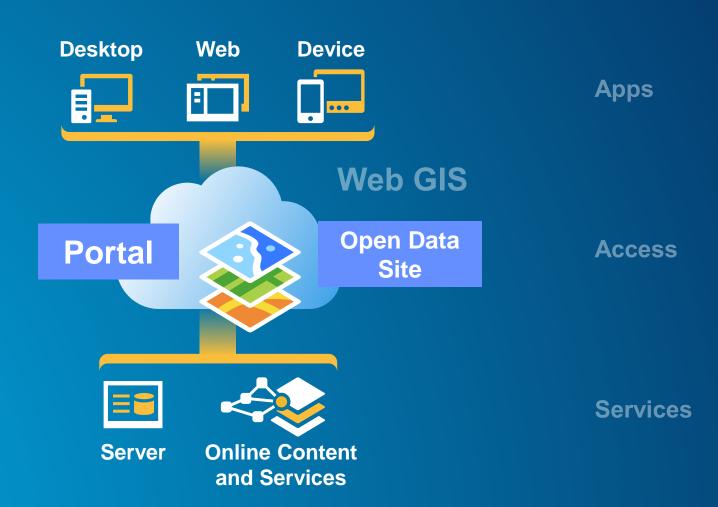


Your data will be available via:

#### **ArcGIS Open Data is part of the ArcGIS Platform**

Providing open access to your published data

Simple<br/>Integrated<br/>Open



## **ArcGIS Open Data is accessible**

- Users can easily access the data they want
- Users can connect with the data at the source
- Users know the licensing information



# FTP websites

#### - Transportation

Description	Date of Data	SHP (zipped)	DWG	KML
Snowmobile Bylaw Trails	10 May 2012	<u>SHP</u>	<u>DWG</u>	<u>KML</u>
Trails - NonMotorized	2005	<u>SHP</u>	<u>DWG</u>	<u>KML</u>
Trails - Ski	2003	<u>SHP</u>	DWG	<u>KML</u>
Trails - Ski - GPS	2003	<u>SHP</u>	<u>DWG</u>	<u>KML</u>
Trails - Motorized	2005	<u>SHP</u>	<u>DWG</u>	<u>KML</u>
TRAIL - Motorized Winter	2012	<u>SHP</u>	<u>DWG</u>	<u>KML</u>
TRAIL - Motorized Summer	2012	<u>SHP</u>	<u>DWG</u>	<u>KML</u>
Transit Bus Routes	2012	<u>SHP</u>	<u>DWG</u>	<u>KML</u>
Transit Bus Stops	2012	<u>SHP</u>	<u>DWG</u>	<u>KML</u>
Roads - Right of Ways	2014	<u>SHP</u>	<u>DWG</u>	<u>KML</u>
Roads - Center Lines	2014	<u>SHP</u>	DWG	<u>KML</u>

#### - Environment

Description	Date of Data	SHP (zipped)	DWG	KML	Extra
Vegetation Inventory 2005	Sept 2005	<u>SHP</u>	DWG	<u>KML</u>	Manua
Soil Inventory 2005 (Text)	Sept 2005	<u>SHP</u>	<u>DWG</u>	<u>KML</u>	
Soil Inventory 2005 (Polygons)	Sept 2005	<u>SHP</u>	DWG	<u>KML</u>	
Terrain (Text)	Sept 2005	SHP	<u>DWG</u>	<u>KML</u>	
Terrain (Polygons)	Sept 2005	SHP	<u>DWG</u>	<u>KML</u>	
Draft Water Inventory - Lakes	approx 2004	SHP	DWG	<u>KML</u>	
Draft Water Inventory - Rivers	approx 2004	SHP	DWG	<u>KML</u>	
Draft Water Inventory - Streams	approx 2004	SHP	DWG	<u>KML</u>	
Draft Water Inventory - Streams Indefinite	approx 2004	SHP	DWG	KML	
Draft Water Inventory - Watersheds	approx 2004	SHP	DWG	<u>KML</u>	
Draft Water Inventory - Wetlands	approx 2004	SHP	DWG	<u>KML</u>	
Sensitive Areas	approx 2004	SHP	DWG	<u>KML</u>	
Sensitive Areas as used by Bylaw for 2011/12 ATV and Snowmobile bylaws	approx 2011	SHP	DWG	KML	
Additional Slopes as used in the ATV/Snowmoble bylaw as additional sensitive areas	approx 2004	SHP	DWG	KML	
Protected Areas 2004	approx 2004	SHP	DWG	KML	

## **ArcGIS Open Data is discoverable**

- Users can view all datasets on a site
- Users can search for specific datasets
- Users can see suggested related datasets



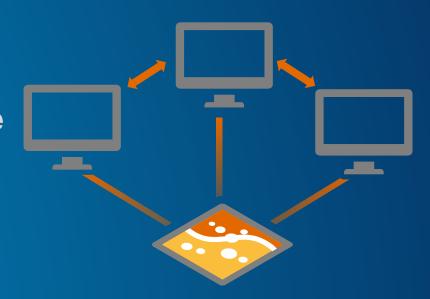
# **ArcGIS Open Data is explorable**

- Users can filter and sort data
- Users can search by location
- Users can visualize data in different smart mapping and chart options



## **ArcGIS Open Data is collaborative**

- Users can download data in multiple open formats
  - Spreadsheet (CSV)
  - KML
  - Shapefile
  - APIs: GeoJSON, GeoService, OGC WMS
- Users can share and embed datasets
- Users can add data to ArcMap or ArcGIS Online
- Data can be linked with CKAN & data.gov



# Demonstration

Using ArcGIS Open Data Sites

#### Newest Data



#### Roads

Road Lines. The dataset contains locations and attributes of Road Centerlines within the houndaries of Polis County.

@ March 23, 2016

#road

**Explore More Datasets** 



#### Parcels

Parcel Polygons. The dataset contains locations and attributes of Parcels, created as part of the Poly County Geographic Information System

@ March 23, 2016

#parcel



#### WSDOT - Regional Transportation Pl...

Regional Transportation Planning Organizations (RTPO) of Washington State. RTPOs are responsible for transportation planning, growth

@ March 23, 2016

#wsdot

# Exercise 1: Explore ArcGIS Open Data sites

#### **Exercise 1: Explore ArcGIS Open Data sites**

- Explore sites
- Follow steps in the "For Consumers" section of the online documentation: <a href="http://doc.arcgis.com/en/open-data/consumer/find-data.htm">http://doc.arcgis.com/en/open-data/consumer/find-data.htm</a>
  - Discover data
  - View details
  - Download data
  - Explore data
  - Chart data
  - Visualize data
  - Sign in
  - Comment on data
  - Use the preview map

- http://opendata.arcgis.com/
   (also lists featured open data sites)
- http://dc.esri.com/showcase
- http://clt.charlotte.opendata.arcgis.com/
- http://data.gfw.opendata.arcgis.com/
- http://imap.maryland.opendata.arcgis.com/
- http://kygovmaps.kygeonet.opendata.arcgis.com/
- http://catalogue.hrm.opendata.arcgis.com/
- http://opendata.dc.gov/
- http://geo.wa.gov/
- http://udot.uplan.opendata.arcgis.com/
- https://hifld-dhs-gii.opendata.arcgis.com/
- http://talgov.tlcgis.opendata.arcgis.com/
- http://geohub.lacity.org/

# Data preparation and organization workflows

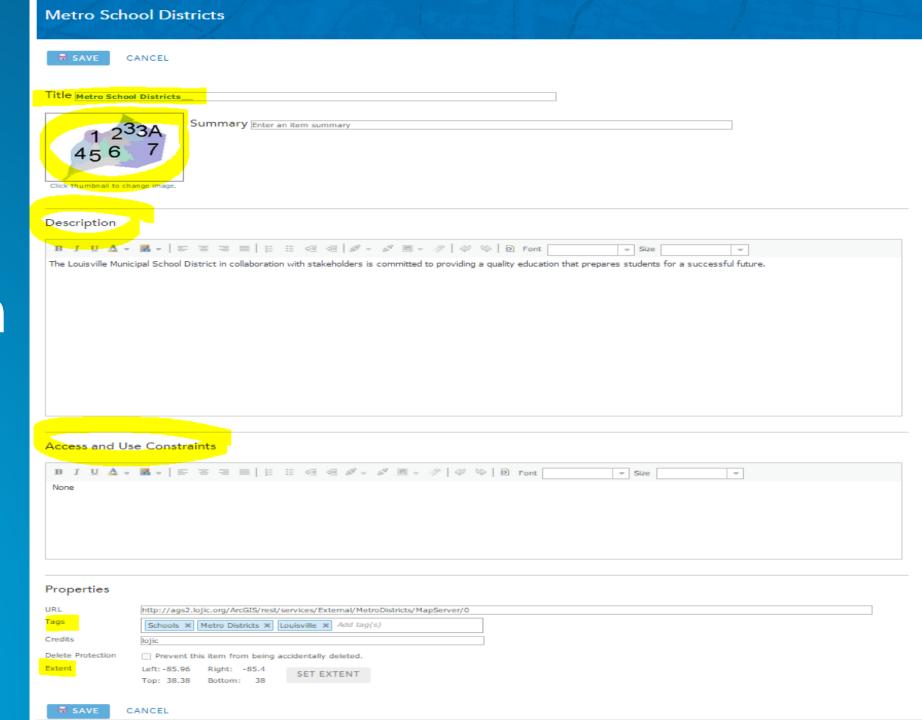
# Preparing your data

#### Make the data easy to understand

- Set attribute aliases
  - Less than ten characters
- Set an appropriate hover field
- Hide attributes that don't add meaning
  - Keep Object ID and Shape fields
- Online Doc has good section on "Improving data quality"



# Critical Item Details



#### Controlled Hunts - Antelope (2015-2016)



Antelope controlled hunt areas in Idaho.

Feature Layer by fishgame1 Source: Feature Service Last Modified: April 9, 2015

(0 ratings, 9 views)

Sign in to rate this item.

Facebook 💟 Twitter

OPEN -

#### Description

24k version of Idaho Fish and Game's (IDFG) 2015–16 Antelope Controlled Hunt Areas. This file was produced by IDFG from the legal descriptions available in the current, published hunting regulations. For more information about antelope hunting in Idaho click here.

#### Access and Use Constraints

This dataset is intended for public-use for informational purposes only.

Idaho Fish and Game does not assume liability. No warranty expressed or implied is made by IDFG regarding the utility of this data on any other system, nor shall the act of distribution constitute any such warranty. The data represented in this file is true and accurate to the best of our knowledge but is considered a best representation only. Users must assume responsibility in determining the usability of this data for their purposes.

#### Layers

Antelope\_Controlled\_Hunt\_Areas 

■

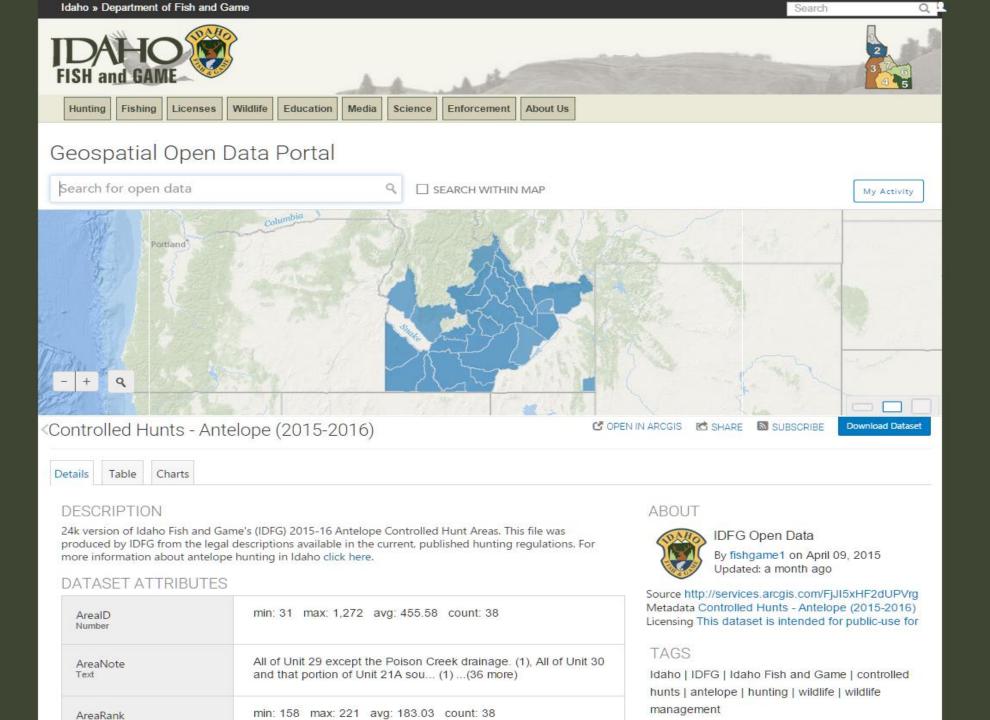
#### **Properties**

Tags Idaho, IDFG, Idaho Fish and Game, controlled hunts, antelope, hunting, wildlife, wildlife management

Credits Idaho Fish and Game

Size 5 MB

Extent Left: -117.22 Right: -110.86



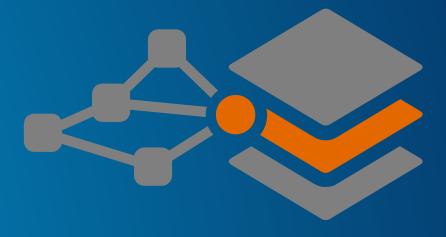
#### **Use an Authoritative ArcGIS Online Profile**

- Profile name should convey authoritative source
- Profile description and photo needs to be
  - Professional
  - Informative
  - Authoritative
  - Include contact information



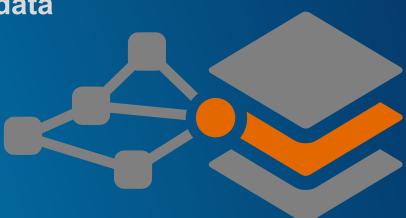
### Add items to ArcGIS Online

- Leverage workflows you know
- Catalog all your data in ArcGIS Online
  - Upload local items from the web or ArcMap
  - Register from ArcGIS for Server
- Open Data supports different file types:
  - Map services
  - Feature services
  - Image services
  - CSVs
  - PDFs and Word docs
  - URLs (e.g. for web apps)
  - Web Maps



# Registering services to ArcGIS Online

- Registering services with multiple layers
  - Quicker
  - Less control over search results and item's metadata
  - All layers will have same tag, thumbnail
- Registering individual layers
  - More time consuming
  - Better search results and item's metadata
  - Recommended method
  - Sample python script to register service layers individually
    - https://github.com/sirws/OpenData-MapServiceLayerRegistrar



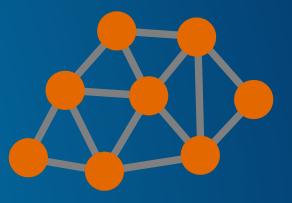
### Create effective metadata

- Metadata helps make your data more authoritative and provides context
  - Titles
  - Description
  - Licensing
  - Tags
  - Icons
- Add official metadata files to ArcGIS Online item



# Persistent linkages

- Update your data in one place
- Automatic updates across all sites
- Users get authoritative and timely data



# Demonstration

Preparing and organizing data for ArcGIS Open Data

# Exercise 2: Create content for ArcGIS Open Data

#### **Exercise 2: Create content for ArcGIS Open Data**

- If possible, use your own ArcGIS Online org. credentials
- If not possible, use <a href="http://pnw.maps.arcgis.com">http://pnw.maps.arcgis.com</a>
- Find interesting data or ArcGIS Server services
- Publish hosted feature layers (services)
  - Use ArcMap or ArcGIS Online
  - http://doc.arcgis.com/en/arcgis-online/share-maps/publish-features.htm
- Reference ArcGIS Server services
  - Find ArcGIS Server REST endpoint (URL)
  - Add items from the web <a href="http://doc.arcgis.com/en/arcgis-online/share-maps/add-items.htm">http://doc.arcgis.com/en/arcgis-online/share-maps/add-items.htm</a>
- Share items to "MAGIP 2016 Open Data" group

# Creating an Open Data site

# **Creating an Open Data Site**

- Enable the Online Organization
- Designate Groups for Open Data
- Create authoritative content
- Prepare spatial and non-spatial data
- Create custom role
- Enable staff in other departments
- Create an Open Data Site



## **Turn on Open Data**

- Enable Open Data for your ArcGIS Organization
  - In your ArcGIS Online organization settings
- Set user roles as desired
- Does not mean all data is publicly accessible
- Optionally, enable metadata for the organization
  - In your ArcGIS Online organization settings



#### **Enable Open Data for Organization**



CANCEL

General

Home Page

Gallery

Мар

Item Details

Groups

Utility Services

Roles

Security

Open Data

#### **Open Data**

You can enable Open Data capabilities for your organization in order to configure an Open Data web site that makes the data of designated groups in your organization, as well as the items in designated groups of other organizations, freely available to everyone to use and republish as they wish without restrictions from copyright, patents or other mechanisms of control.

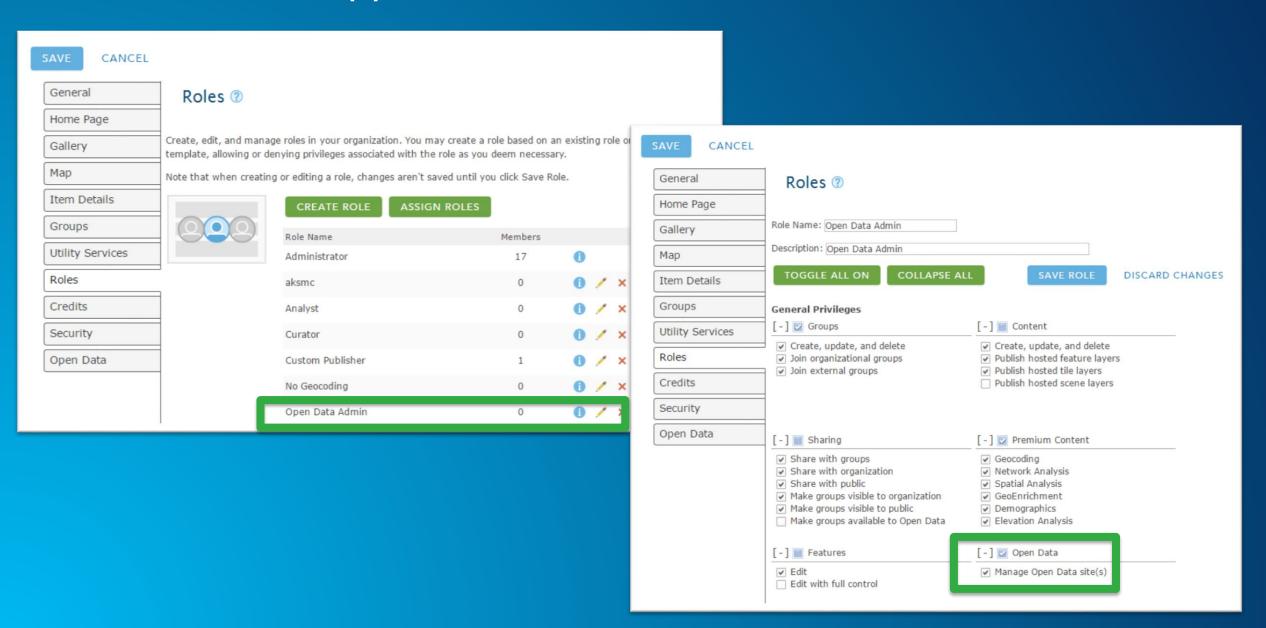
Note that you can disable Open Data capabilities associated with your organization at any time.

Learn more about enabling Open Data for your organization.



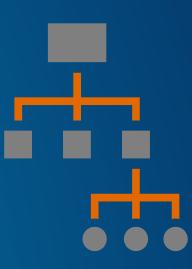
**ENABLE OPEN DATA** 

#### **Create Custom Role(s)**

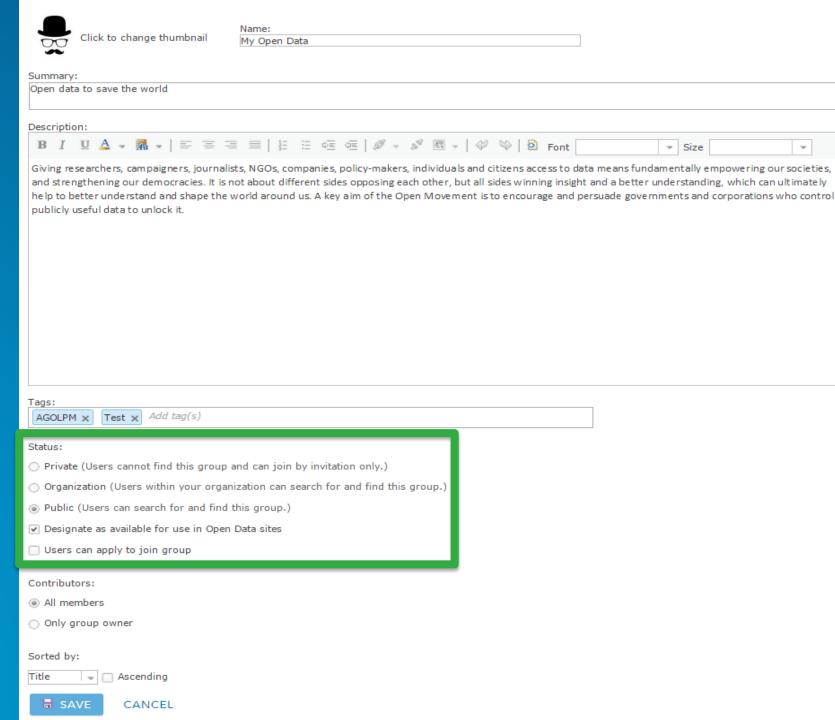


## **Specify Open Data groups**

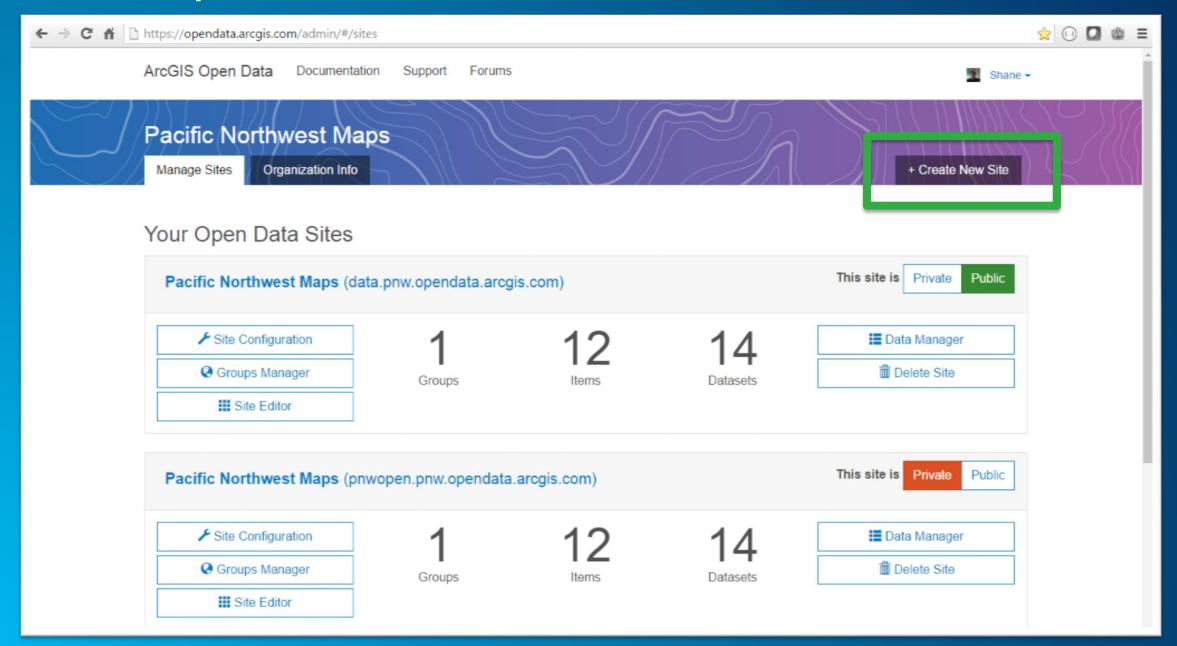
- Control what content appears on your Open Data site
- Create or edit groups to organize Open Data content
  - One large Open Data group
  - Smaller thematic Open Data groups
    - Enables thematic group search
    - e.g. https://hifld-dhs-gii.opendata.arcgis.com/
- Set groups to public and designate as Open Data
- Share items to your Open Data groups
- Can add open data groups from other orgs (federation)



# Designate Open Data Groups



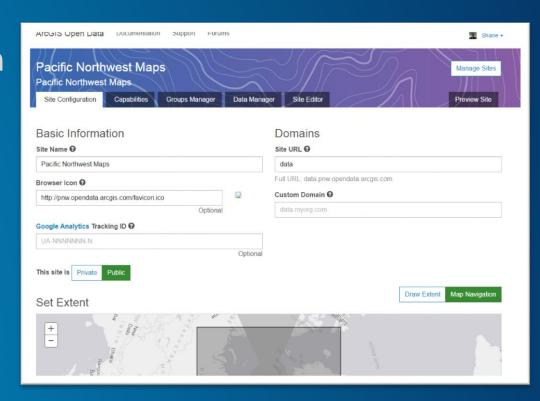
#### **Create new Open Data site**



# **Configuring your Open Data site**

#### **Setting basic information**

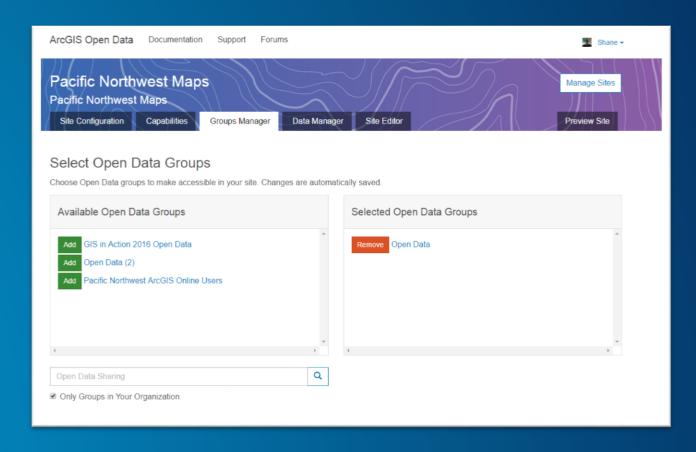
- Set title
- Site URL
  - [name].[yourorg].opendata.arcgis.com
  - Custom URL
- Map extent
- Public or private



### Adding your data

#### Manage data and review status

- Search Open Data groups
- Add groups from your org
- Add groups from other orgs
- Review harvesting status



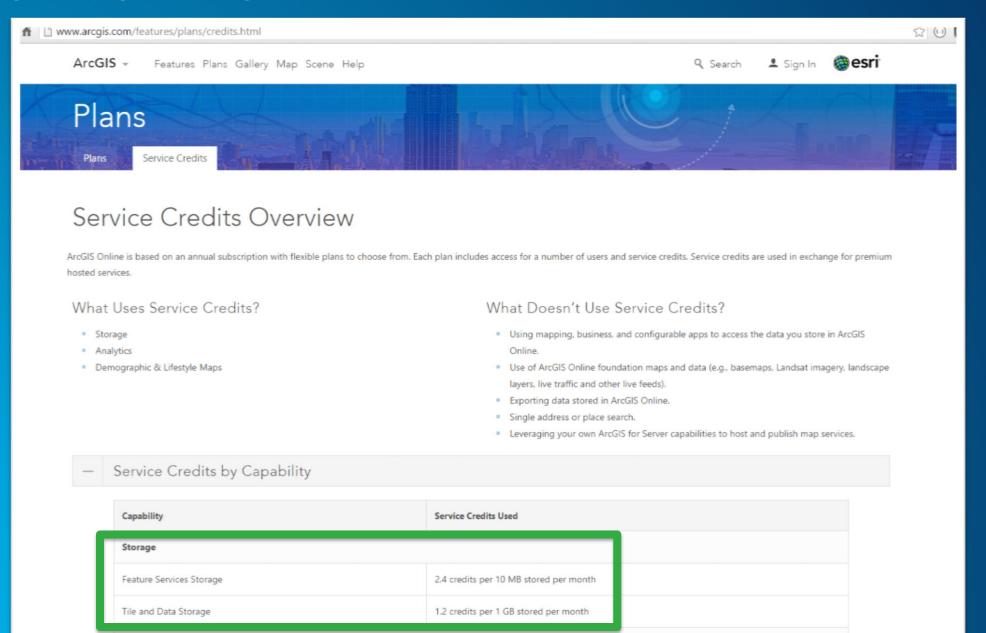
# Designing your site layout

#### **Design layout**

- Use the wizard
  - Different widgets
    - Text RSS feed
    - Image Data listings
- Use custom HTML/CSS
  - Have more control over your site's design
- Use both
  - Use some custom CSS in the header to change theme colors
  - Use widgets in the main body



#### **ArcGIS Online Service Credits**



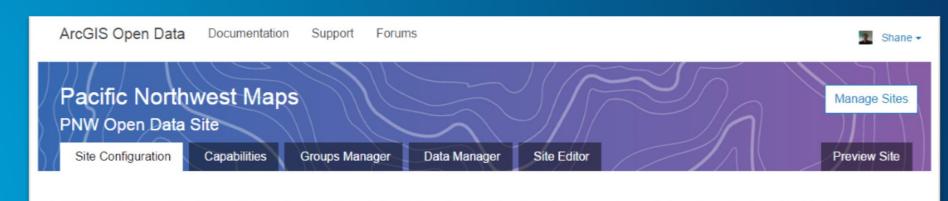
# Demonstration

Creating an ArcGIS Open Data Site

# Exercise 3: Create an ArcGIS Open Data site

#### **Exercise 3: Create an ArcGIS Open Data site**

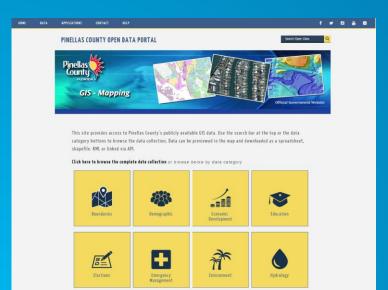
- If possible, use your own ArcGIS Online org. credentials
- If not possible, use <a href="http://pnw.opendata.arcgis.com/sites">http://pnw.opendata.arcgis.com/sites</a>
- Create and configure an Open Data Site
  - http://doc.arcgis.com/en/open-data/provider/create-an-open-data-site.htm
- Manage Site Capabilities
- Explore
  - Groups Manager
  - Data Manager
  - Site Editor

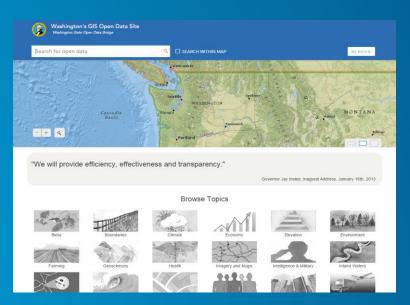


# Customizing the Open Data site

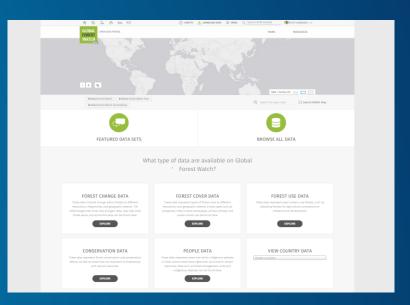






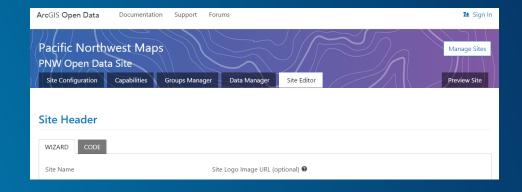






# **Customizing the Site Layout**

- Site Editor tab
- Use provided editor or custom HTML and CSS to configure
  - Site Header HTML and CSS
  - Body Content Layout HTML
  - Site Footer HTML
- Widgets
  - Add or remove
  - Configure with Widget Editor and Markdown
  - Widget types: text, image, RSS feed, data listing



### **Using Markdown**

- Markdown is used in the Widget Editor
- Markdown Basics
  - http://daringfireball.net/projects/ markdown/basics

Attribute	Syntax	Result
Header	# Text here for a header 1 ## Text here for a header 2 ########### Text here for a header 6	Text here for a header 1 Text here for a header 2 Text here for a header 6
Italics	*Text here* or _Text here_	Text here
Bold	**Text here** orText here	Text here
Combining Italics and Bold	*Combine italics **and** bold*	Combine italics <b>and</b> bold
Links with link address shown	http://www.esri.com	http://www.esri.com
Links without link address	[esri] (http://www.esri.com)	esri
Bullets	* This * That * The other	<ul><li>This</li><li>That</li><li>The other</li></ul>
Ordered list	1. This 1. That 1. The other	1. This 2. That 3. The other
Insert Images	<img src="image source"/> ("image source" should be the URL to the image)	Image from "image source" will be visible
Insert Image with hyperlink	<a href="link"><img src="image&lt;br&gt;source"/> ("link is the url you want to hyperlink to and "image source" should be the URL to the image)</a>	Image from "image source" will be visible and will link to the url provided

### **Grouping Data**

- Thematic tags to direct users to specific datasets
- Add search options to the site URL
  - Full Search: http://talgov.tlcgis.opendata.arcgis.com/datasets?q=business
  - Tag Search: <a href="http://opendata.dc.gov/datasets?keyword=education">http://opendata.dc.gov/datasets?keyword=education</a>
  - Group Search: <a href="https://hifld-dhs-gii.opendata.arcgis.com/datasets?group\_id=c9584c01b4564b188b98d3ef9cf3e57c">https://hifld-dhs-gii.opendata.arcgis.com/datasets?group\_id=c9584c01b4564b188b98d3ef9cf3e57c</a>
- Attach link to text, (text widget) using markdown
  - [Education](http://opendata.dc.gov/datasets?keyword=education)
    - e.g. <u>http://opendata.dc.gov</u>
- Attach link to image, (image widget) using markdown
  - Specify Image Source URL and Image Link
    - e.g. <a href="http://vicroadsopendata.vicroadsmaps.opendata.arcgis.com/">http://vicroadsopendata.vicroadsmaps.opendata.arcgis.com/</a>

#### Sample HTML / CSS code

#### Brookline (<a href="http://data.brooklinema.gov/">http://data.brooklinema.gov/</a>)

- Header Button: <a href="http://esriurl.com/BrooklineButton">http://esriurl.com/BrooklineButton</a>
- Grid: <a href="http://esriurl.com/BrooklineGrid">http://esriurl.com/BrooklineGrid</a>

#### Charlotte (http://clt.charlotte.opendata.arcgis.com/)

- CSS: <a href="http://esriurl.com/CharlotteCSS">http://esriurl.com/CharlotteCSS</a>

#### California Dept. of Public Health

- CSS: <a href="http://esriurl.com/CDPHcss">http://esriurl.com/CDPHcss</a>
- Body: <a href="http://esriurl.com/CDPHbody">http://esriurl.com/CDPHbody</a>
- Footer: <a href="http://esriurl.com/CDPHfooter">http://esriurl.com/CDPHfooter</a>

#### Detroit (<a href="https://data.detroitmi.gov/">https://data.detroitmi.gov/</a>)

- Footer/Header/CSS: <a href="http://esriurl.com/Detroitcode">http://esriurl.com/Detroitcode</a>

#### Sample HTML / CSS code

#### **Police Foundation**

- Body Layout: <a href="http://esriurl.com/PoliceBody">http://esriurl.com/PoliceBody</a>
- Extra CSS: <a href="http://esriurl.com/PoliceCSS">http://esriurl.com/PoliceCSS</a>

#### San Francisco

- http://esriurl.com/SFcode

#### Extra - changing placeholder text in Webkit browsers:

- http://esriurl.com/WebKitPlaceholder

# Demonstration

Customizing the ArcGIS Open Data Site

# Exercise 4: Customize your ArcGIS Open data site

#### **Exercise 4: Customize your ArcGIS Open data site**

- If possible, use your own ArcGIS Online org. credentials
- If not possible, use <a href="http://pnw.opendata.arcgis.com/sites">http://pnw.opendata.arcgis.com/sites</a>
- Open Site Editor tab
- Design the layout of your Open Data site
  - http://doc.arcgis.com/en/open-data/provider/design-the-layout-of-your-open-data-site.htm
- Add widgets to Site Header, Body Content, and Site Footer
- Add widget to group your data
- Try sample HTML / CSS code

# Promoting your Open Data site

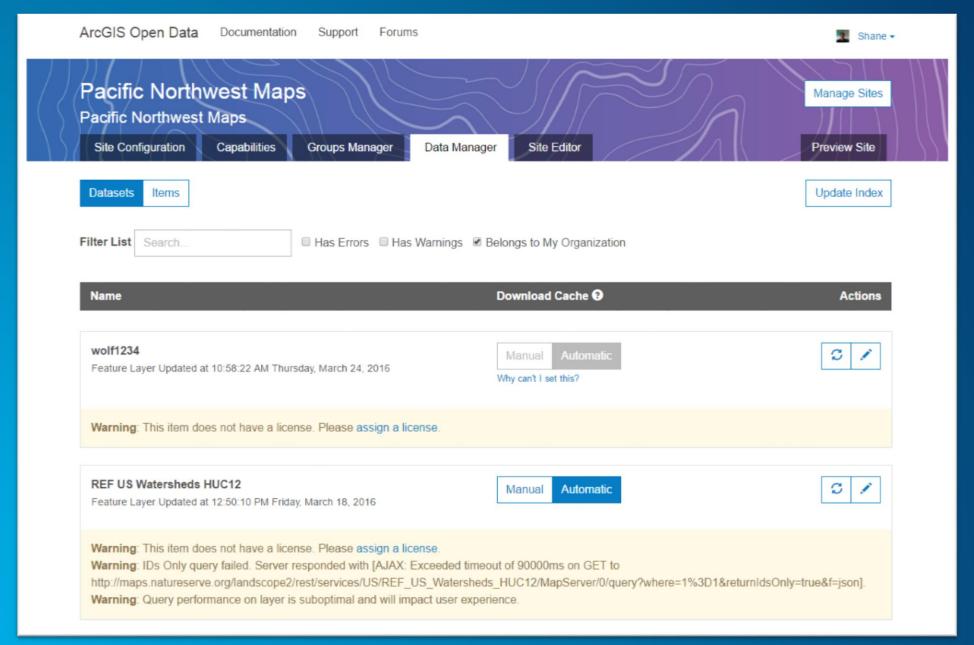
### **Engaging your community**

- Make your Open Data site public
- Keep your Open Data site fresh (new datasets, highlighted datasets, design)
- Use a custom URL
- Link to open data from apps
- Start a two-way conversation
  - Set up a twitter account or blog
  - Speak at local seminars or conferences
- Connect to the local data community
  - Civic hacking groups
- Host events
  - Hackathons
  - Contests
- Showcase how people are using your data



# **Advanced Topics**

#### **Open Data Site Administration**



#### **Data Manager**

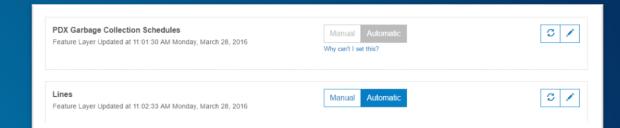
- Identify issues, manage caching, resync data
- Warnings
  - Successfully indexed, but with issues
  - Missing license "Access and Use Constraints" in the item details is empty
    - Solution fix item detail, or register individual service layers

#### Errors

- Failed to index
  - ArcGIS Open Data cannot access dataset (firewall, server down, item not supported)
  - Solution remove item from Open Data group
- Manual reset
  - Refreshes the download cache

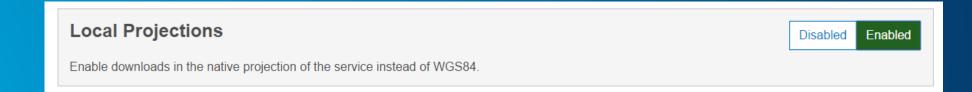
#### Caching

- Set in Data Manager
- Caching
  - Dynamic copy of the data in the cloud
  - Improves download times, takes load off local servers
  - PDFs, docs, URLS, and web maps not cached
- Manual or Automatic cache updates
- Automatic cache updates
  - Setting for all hosted services
  - Cache dropped every 24 hours and regenerated with next download request
  - Recommended for data sets with frequent updates (e.g. crime)
- Manual cache update
  - Only updated when administrator manually resets data
  - Recommended for large data sets with infrequent updates (e.g. parcels)



#### **Projections**

- By default, all services will download in WGS84
- Option to Enable Local Projections (in Site Capabilities)
  - All services in ArcGIS for Server downloaded in original projection
  - All feature services hosted in ArcGIS Online downloaded in original projection
- Creating services from shapefiles and CSV files
  - Hosted services created in ArcGIS Online created in WGS84 projection
  - Use ArcGIS for Desktop to created hosted service in non-WGS84 projection



#### **Server Configuration Details – Service Properties**

- ArcGIS Open Data supports services on ArcGIS Server 10.0 or higher
- Max record count
  - Max record count is the maximum number of records per single request
  - Should be less than 5,000
  - Default is 1,000 for optimal performance
  - Only increase max record count if between 2,000 and 4,000 records in dataset
  - Services with max record count > 5,000 will receive warning in Data Manager
  - Services with max record count > 10,000 will not be indexed, error reported
  - Max record count does not impact downloads all records downloaded
- OCG links (in API section) come from ArcGIS Server, if enabled
- Feature access not necessary (best to not enable)
- Scale dependencies do not matter

#### **Server Configuration Details – Organizing Services**

- Large services will time out
  - Organize data in multiple services, with less 20 layers per service
- Services need to be publicly accessible
- Extend your infrastructure to the cloud / ArcGIS Online
  - Reduces load on local servers
  - 99.9% uptime for ArcGIS Online
- Enable persistent layer ordering in service (ArcGIS Server 10.3 or higher)
  - Desktop Data Frame Properties > General > Allow assignment of unique IDs for map service publishing
- Raster data is supported as Image Services
  - Download in supported formats: JPEG, PNG, georeferenced TIFF
- Use SSL for services, if possible

#### **Server Configuration Details – Managing the data**

- Change field names with aliases
- Turn off unimportant fields
- Geodatabase behaviors are not supported
  - Topologies, relationships, related tables not supported
- Coded value domains are supported
- Data must support statistics
  - Requires ArcGIS Server 10.03 or higher
  - ArcGIS Open Data only builds statistics for first 20 columns in a dataset
- CSV files under 5MB are dynamic
  - Use Publish as a Service for CSV files larger than 5MB
- Enable editor tracking for accurate last updated date

#### **Server Configuration Details – Item configuration**

- ArcGIS Online Item title is the dataset name
- Access and Use Constraints is the data license
  - The license is important for data consumers
  - License can be a URL for existing data policies
  - License can be HTML code from Creative Commons License Picker
    - https://creativecommons.org/choose/
- Search for data is based on the ArcGIS Online item extent (can be changed)

#### **Integrating ArcGIS Open Data with other Open Data Platforms**

- Provide ArcGIS Open Data catalog to other Open Data platforms
  - DCAT format (JSON)
  - Append /data.json to Open Data site home page URL
- One URL = hundreds of datasets
- Used by <a href="http://www.data.gov/">http://www.data.gov/</a>

```
"title": "UFA Arborist Assignment Zone",
"description": "Work zone assignment for UFA Arborists via DDOT's Transportation Online Permitting System.",
"keyword": [
  "DDOT",
 "UFA",
  "DC",
  "Arborists",
  "Assignment Zones"
],
"issued": "2014-12-11T07:19:54.056Z",
"modified": "2015-02-09T02:42:24.027Z",
"publisher": "none",
"contactPoint": "DCGISgroup",
"mbox": "DCGISgroup",
"identifier": "a7fa884889514c77afe50423cdf07664 6",
"accessLevel": "public",
"distribution": [
    "title": "CSV",
    "accessURL": "http://opendata.dc.gov/datasets/a7fa884889514c77afe50423cdf07664 6.csv"
    "title": "KML",
    "format": "KML",
    "accessURL": "http://opendata.dc.gov/datasets/a7fa884889514c77afe50423cdf07664_6.kml"
    "title": "GeoJSON"
    "format": "GeoJSON"
    accessurl": "http://opendata.dc.gov/datasets/a7fa884889514c77afe50423cdf07664 6.geojson'
```

#### Federating with CKAN

- CKAN open source data portal platform
- Configure CKAN
  - Install the CKAN Harvesting extension
  - Install the CKAN DCAT extension
  - The Harvester Gather\_Consumer and Fetch\_Consumer services must be running as background services
- Harvest the ArcGIS Open Data catalog
  - Add your DCAT (<a href="http://yourOpenDataSite/data.json">http://yourOpenDataSite/data.json</a>) as a harvest source

#### How to get metadata from ArcGIS for Desktop into ArcGIS Online

- Not all metadata is included when publishing items need to add metadata
- The ArcGIS Online web-based metadata editor uses the ArcGIS metadata format
- Fields available for editing determined by style configured for the organization
- Use the ArcGIS for Desktop geoprocessing XSLT Transformation tool to convert other metadata formats to the ArcGIS metadata format.
- Use the ArcGIS for Desktop geoprocessing Upgrade Metadata tool to convert to the ArcGIS metadata format (e.g. FGDC\_TO\_ARCGIS)

#### Resources

- ArcGIS Open Data website and help documentation
  - opendata.arcgis.com
- ArcGIS Open Data showcase
  - dc.esri.com/showcase
- Live Training Seminar: bit.ly/OpenDataLTS
- ArcGIS Blog
- GeoNet
  - Share ideas, questions, experiences with the community



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