



# Adding ArcGIS Online to Your GIS Curriculum

John Thieling

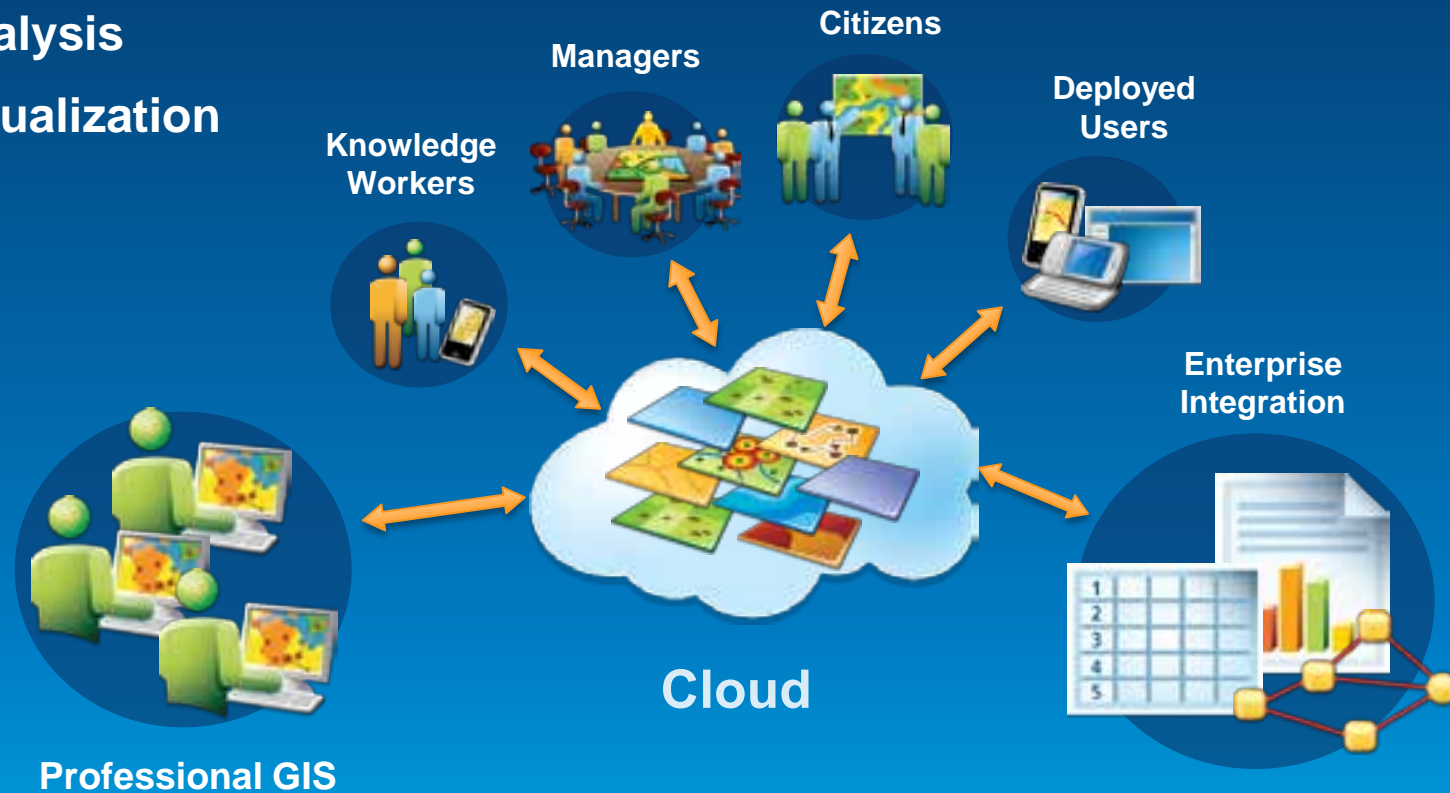
Education GIS

# Agenda

- Introduction to ArcGIS Online
- Options for hosting and sharing geographic content
- Web maps and web map capabilities
- Web mapping applications
- ArcGIS Online Administration
- Teaching ArcGIS Online

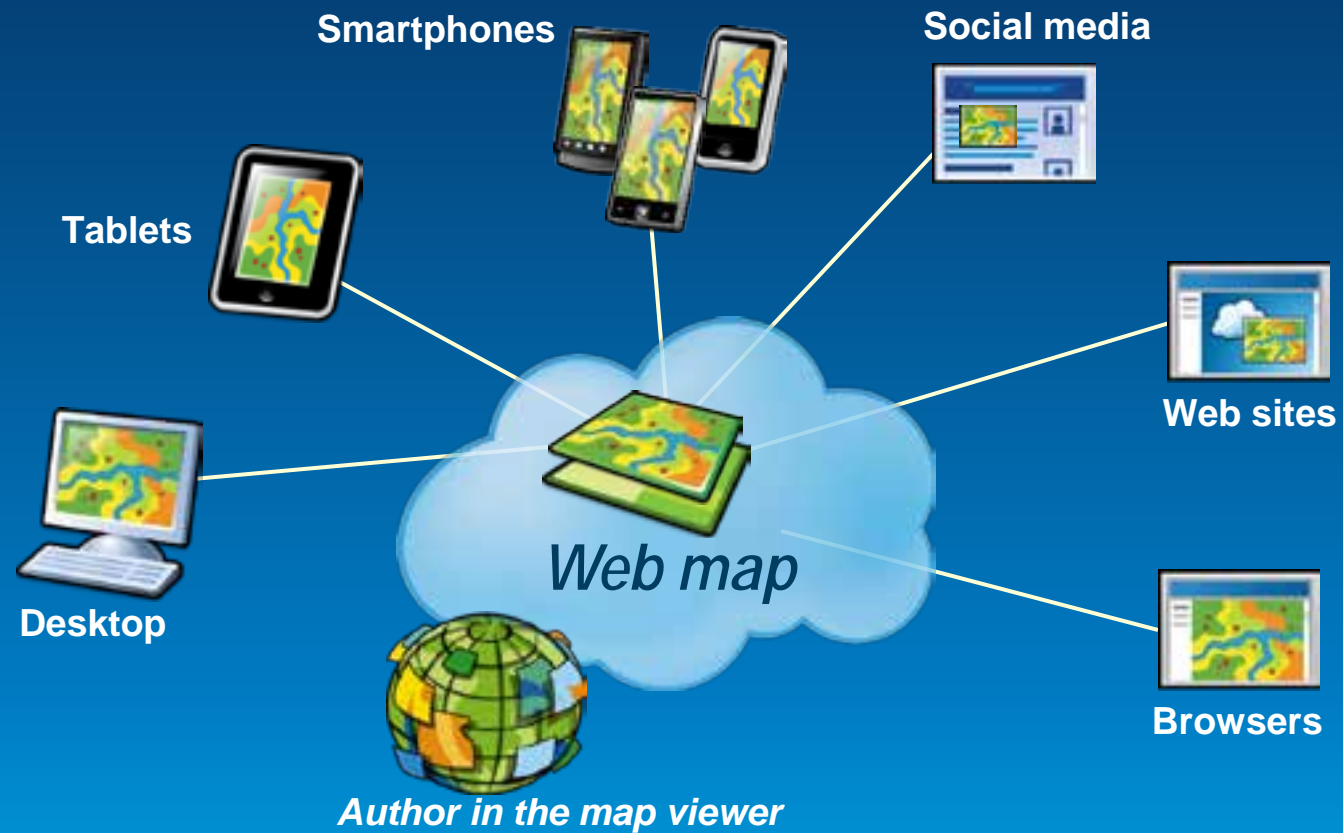
# ArcGIS: A platform for collaboration

- Mapping
- Analysis
- Visualization



*... A Framework for Sharing and Collaborating*

# One map available everywhere



# ArcGIS Online

- An online repository of GIS maps, apps, and tools

## Using ArcGIS Online you can

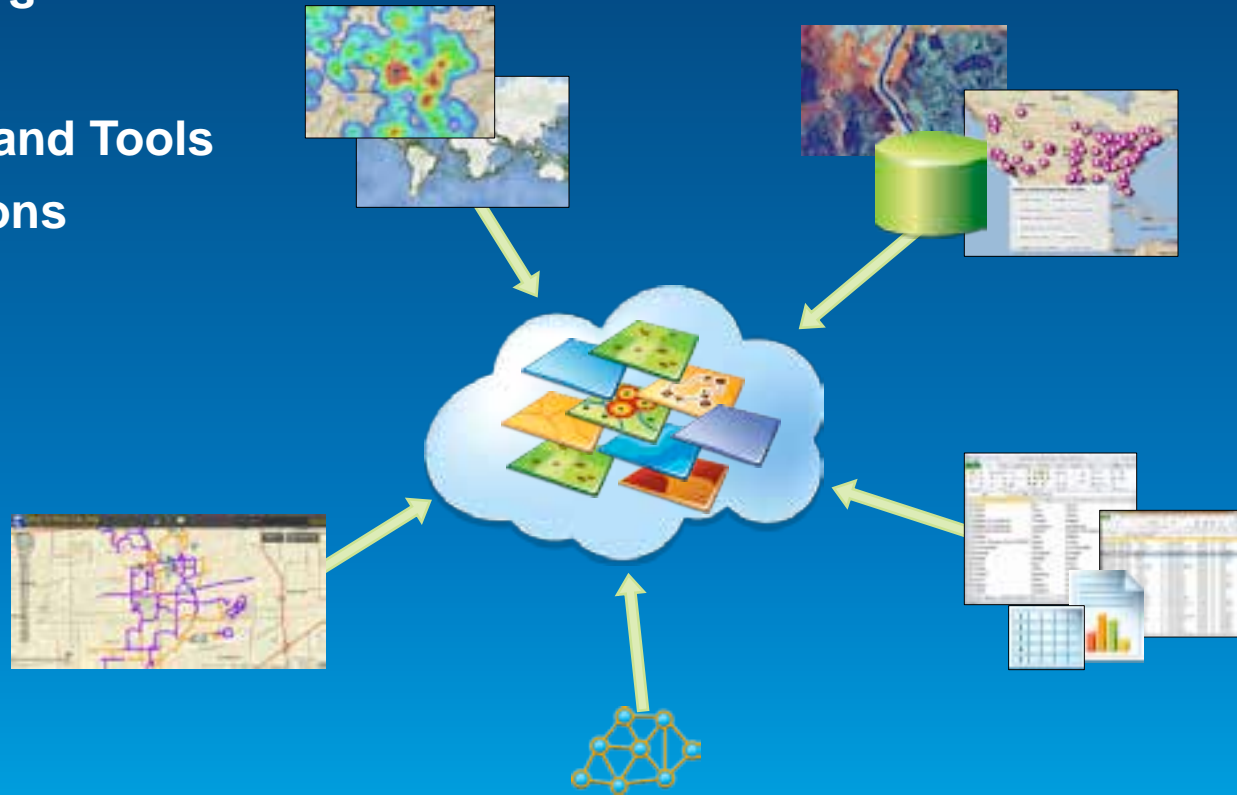
- Make your own maps
- Discover and use maps and apps
- Find and use other resources, like tools and templates
- Save, organize and share your work
- Create and join online communities

# ArcGIS Online workflows

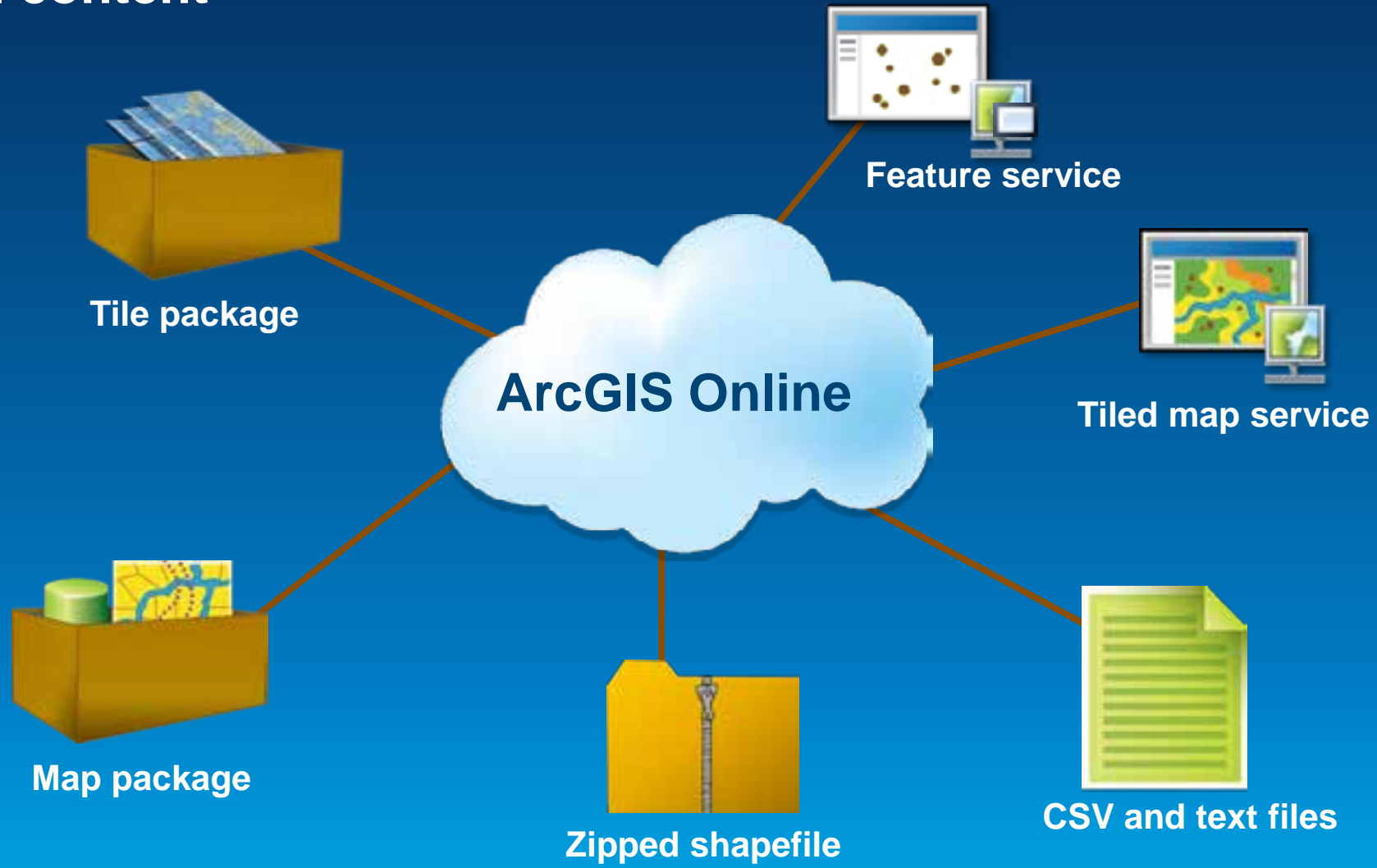


# What types of content can be shared?

- Maps
- Data layers
- Data files
- Services and Tools
- Applications

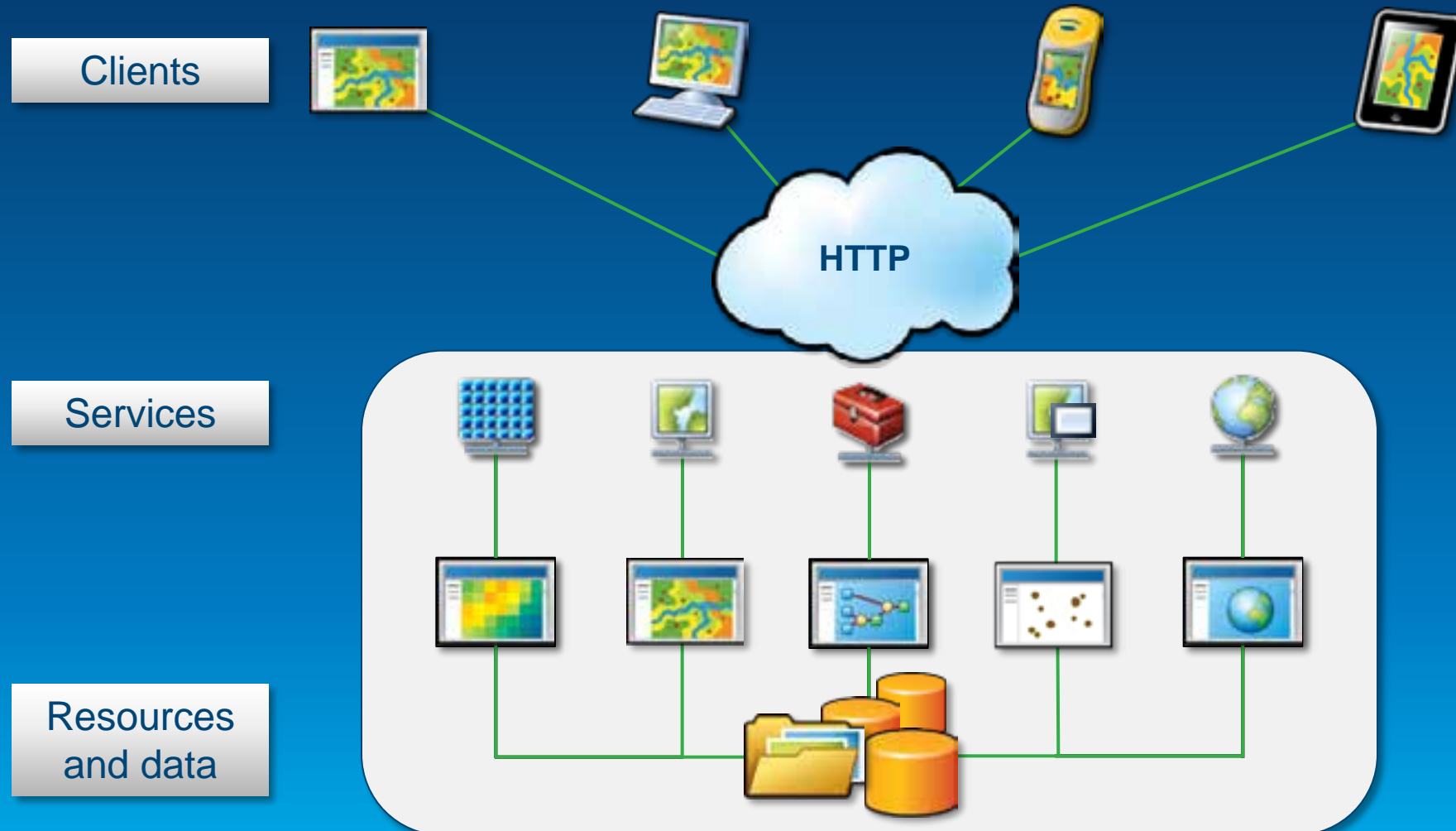


# Hosted content

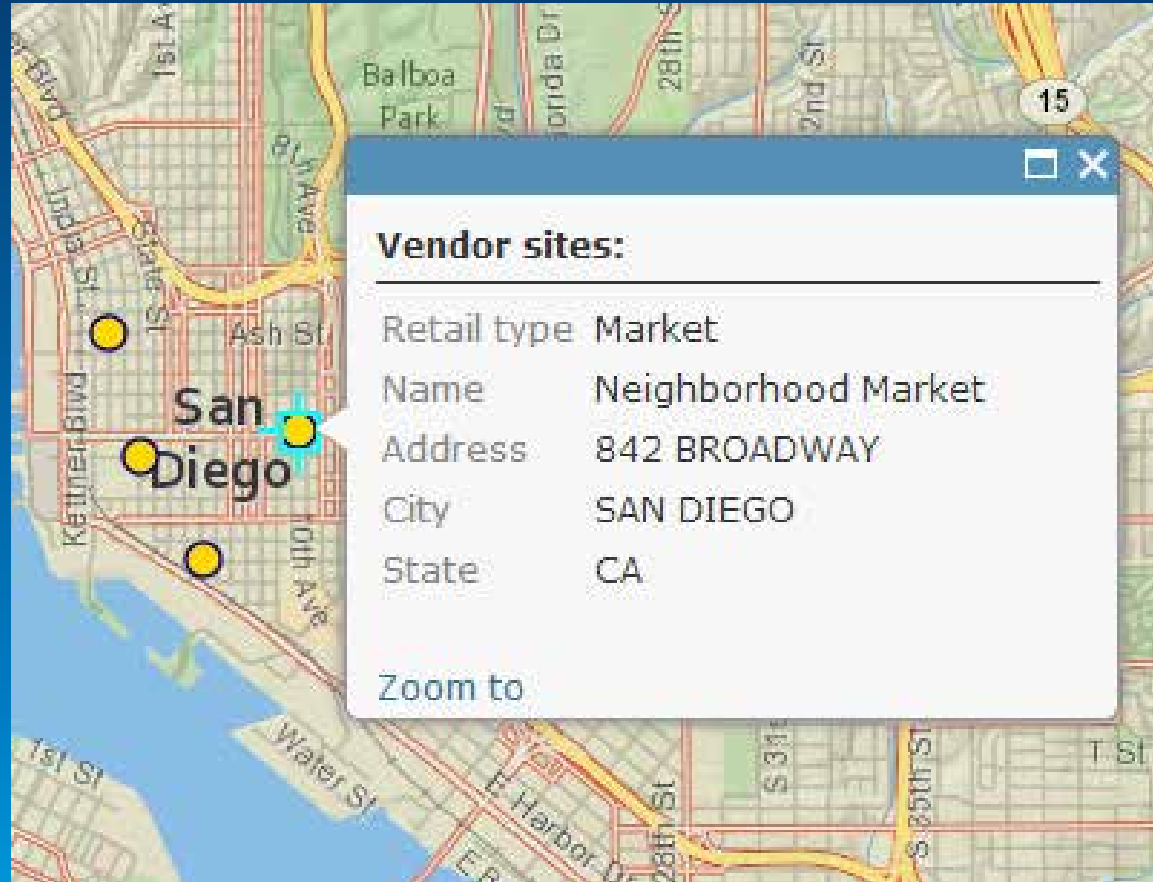




# What is a service?



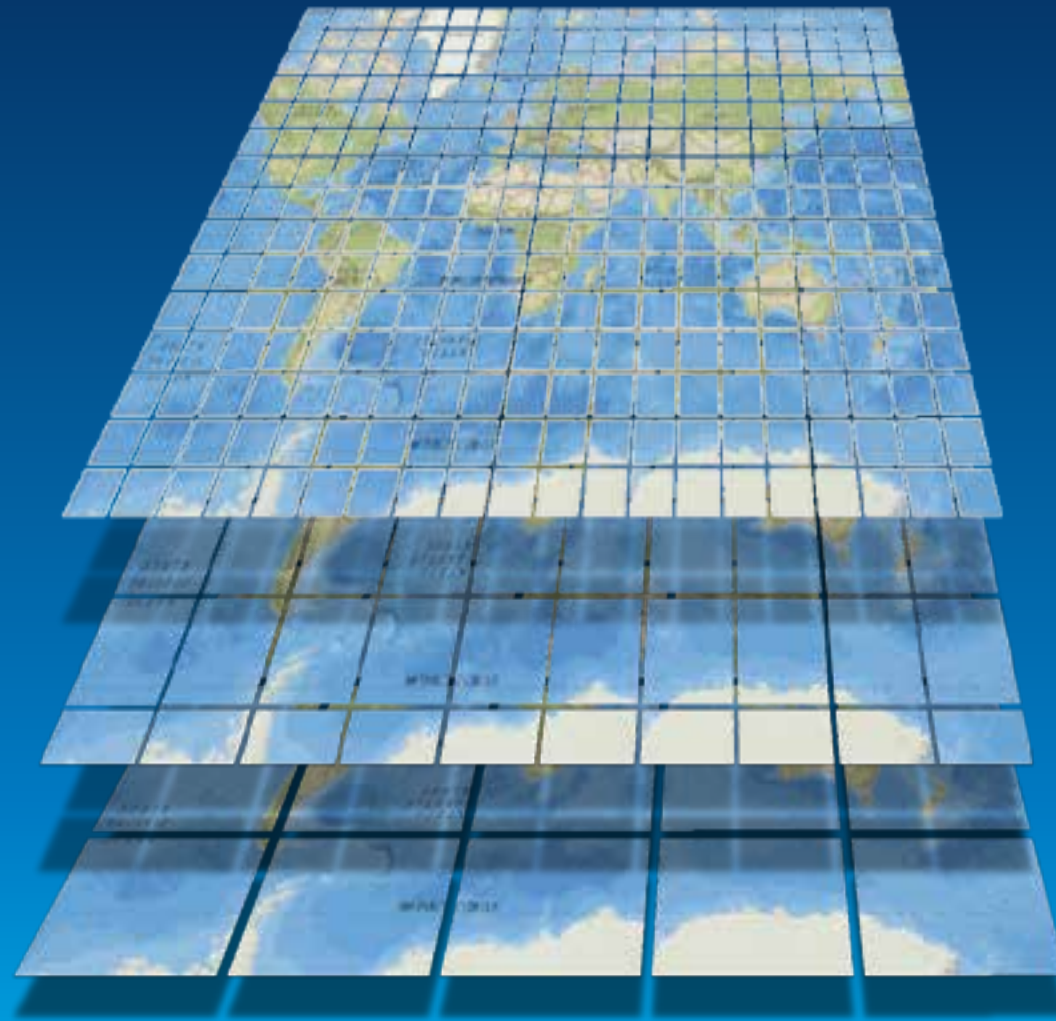
# Feature service



## Tiled map service



# Tile cache



# Services

	Feature service	Tiled map service
Editable		
Dynamic		
Static but fast		
Published from tile package		
Published from CSV		

## Comparing content

	Service	Web map	Package	Text file	Zipped shapefile
Can be viewed in a web browser					
Needs to be downloaded to open					
Requires ArcGIS for Desktop					
Can be added to a web map					
Can be viewed on mobile device					
Can contain several layers					
Can be used in a custom application					

## Determine the content type

### **Gallatin county is looking for content that:**

- Contains soil drainage for the county
- Contains potential landfill site information
- Can be queried and selected
- Is accessible over internet and mobile devices

## Determine the data type

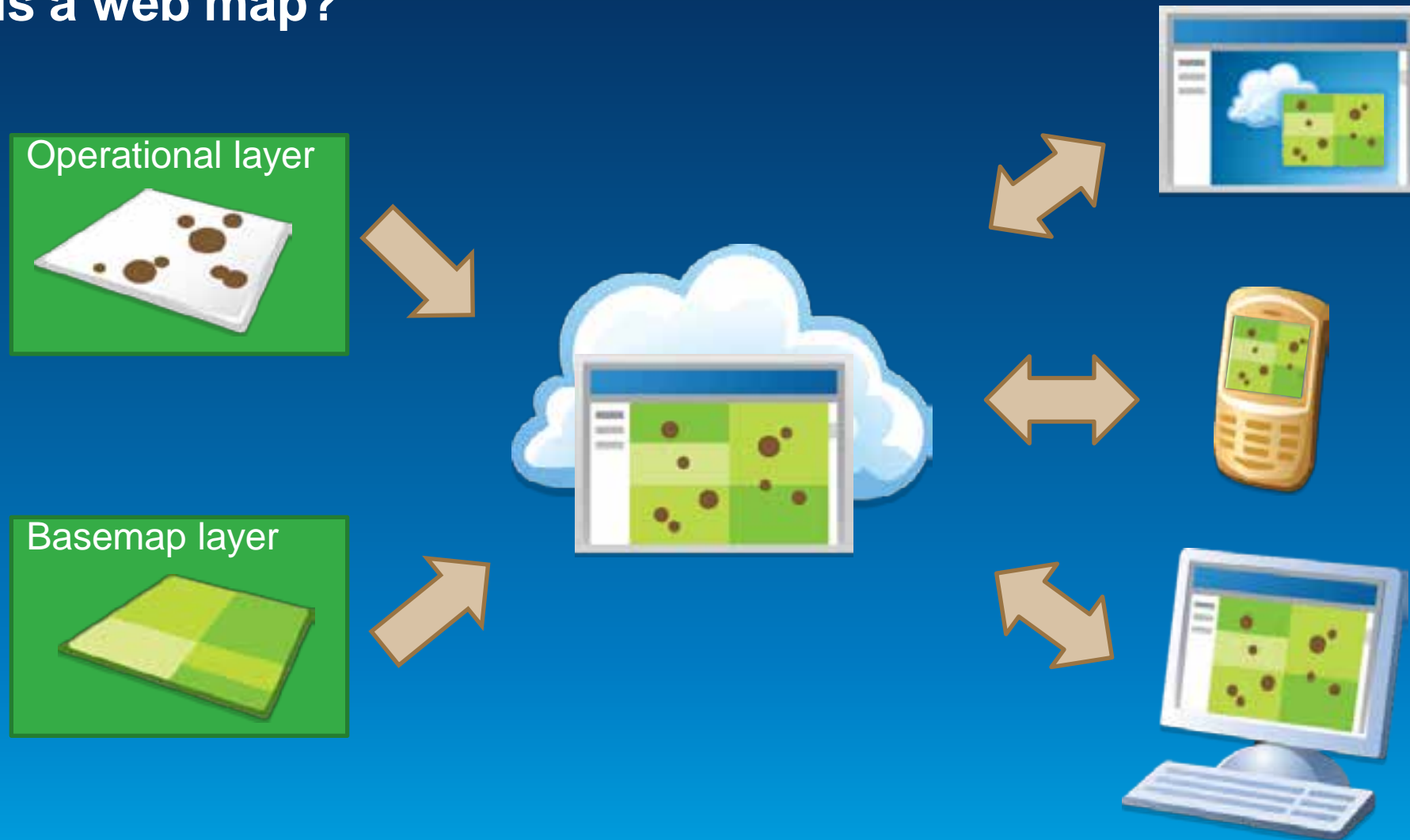
The city of Pineyork has customized their ArcGIS Online subscription to reflect different departments that the city manages, including utilities, public safety, etc.

The utilities department has a CSV file of water meters that needs to be published to ArcGIS Online. The field crew will need to access this data on their mobile device to navigate to the meters, inspect them, and update their data.

Which type of type of service should you publish?



# What is a web map?



# Authoring a web map



Task	Web map tool
Edit the data	Enable editing
Visually differentiate between data	Symbology
Work with data that meets a specific attribute value	Filter
Locate predefined areas	Bookmark
Gather information about the data	Pop-up

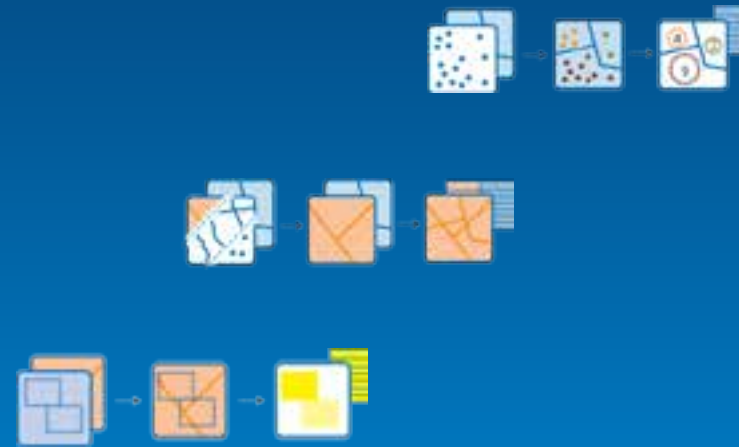
# View data

- View pop-ups
- View legend
- View time maps
- Change transparency
- Apply filters
- Show tables
- Get directions
- Measure



# Perform Analysis

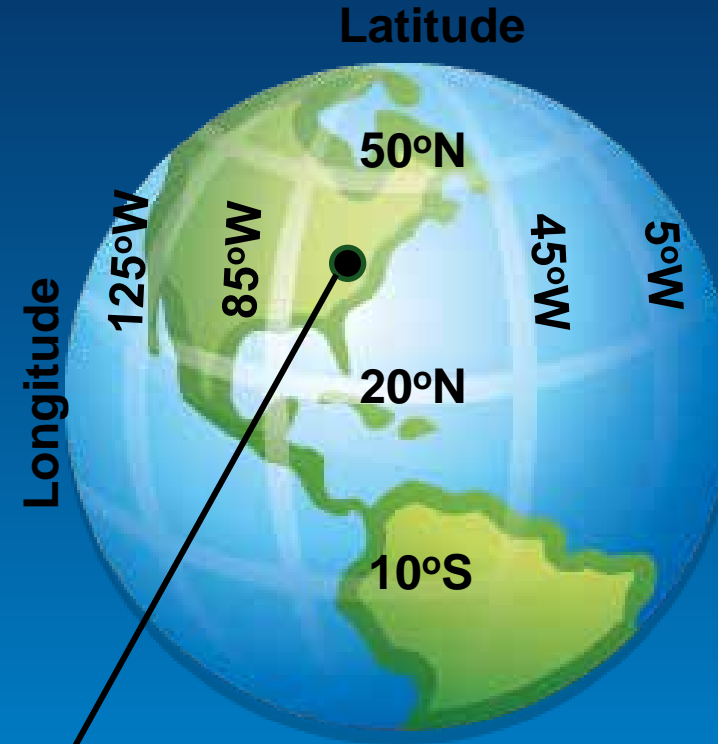
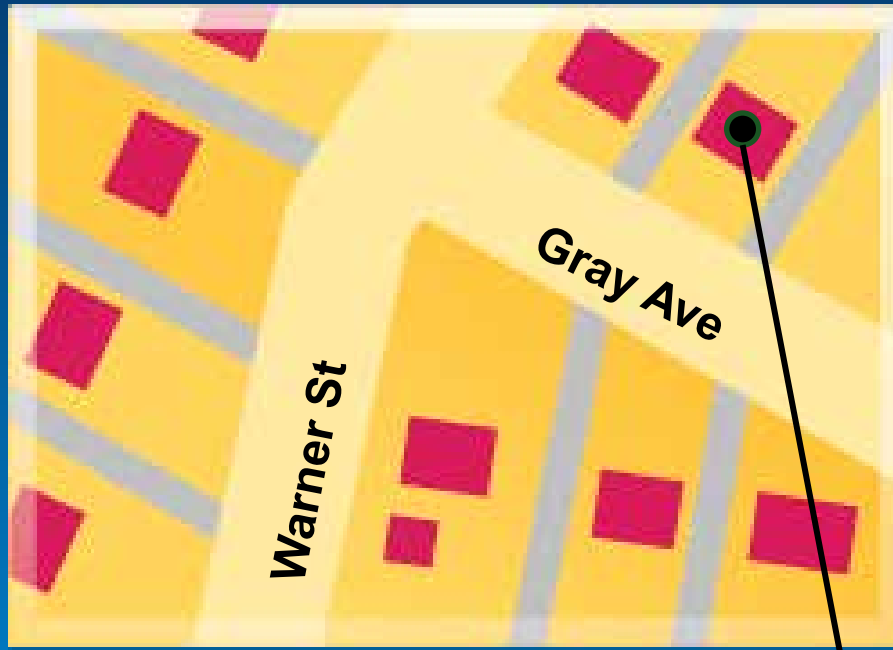
- Summarize data
- Find locations
- Data enrichment
- Analyze patterns
- Use proximity
- Manage data
- Use Filters



# Web map capabilities

	Zoom	Bookmark	Filter	Pop-up	Table	Symbology
Locate a specific area						
Visually differentiate between data						
Work with data that meets a specific attribute						
Get information about the data						

# Geocoding











508 Gray Ave, Durham, NC  
 $78^{\circ}53'21.57''\text{W}$ ,  $35^{\circ}59'58.56''\text{N}$

# Web mapping application



# Web application templates

<b>Legend</b>	<b>One Pane</b>	<b>Search maps</b>	<b>Side by Side Viewer</b>
			
<a href="#">Publish ▼</a>	<a href="#">Publish ▼</a>	<a href="#">Publish ▼</a>	<a href="#">Publish ▼</a>
Simple Map Viewer	Social Media	Storytelling - Tabbed"	Storytelling Basic
			
<a href="#">Publish ▼</a>	<a href="#">Publish ▼</a>	<a href="#">Publish ▼</a>	<a href="#">Publish ▼</a>



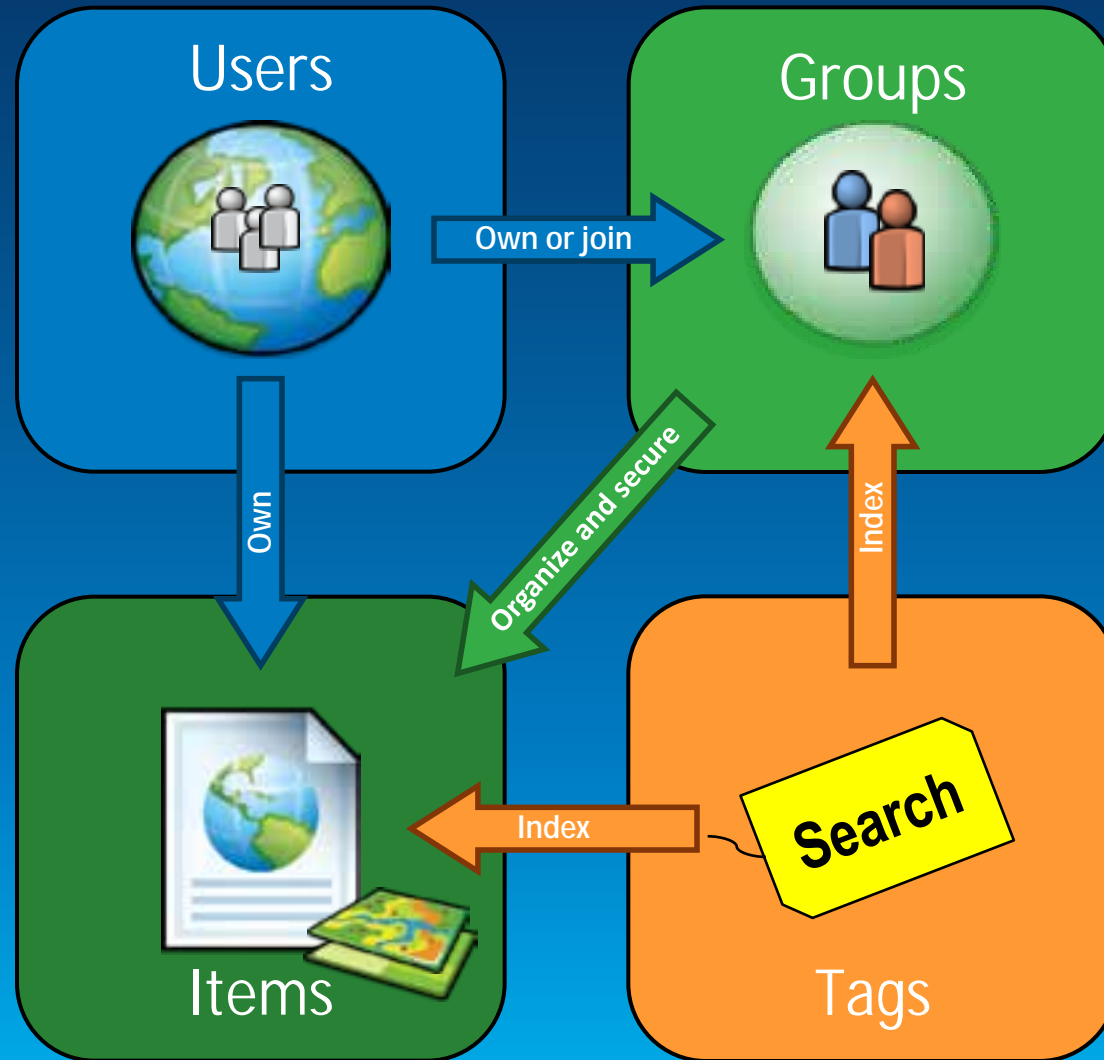
# Creating a web application



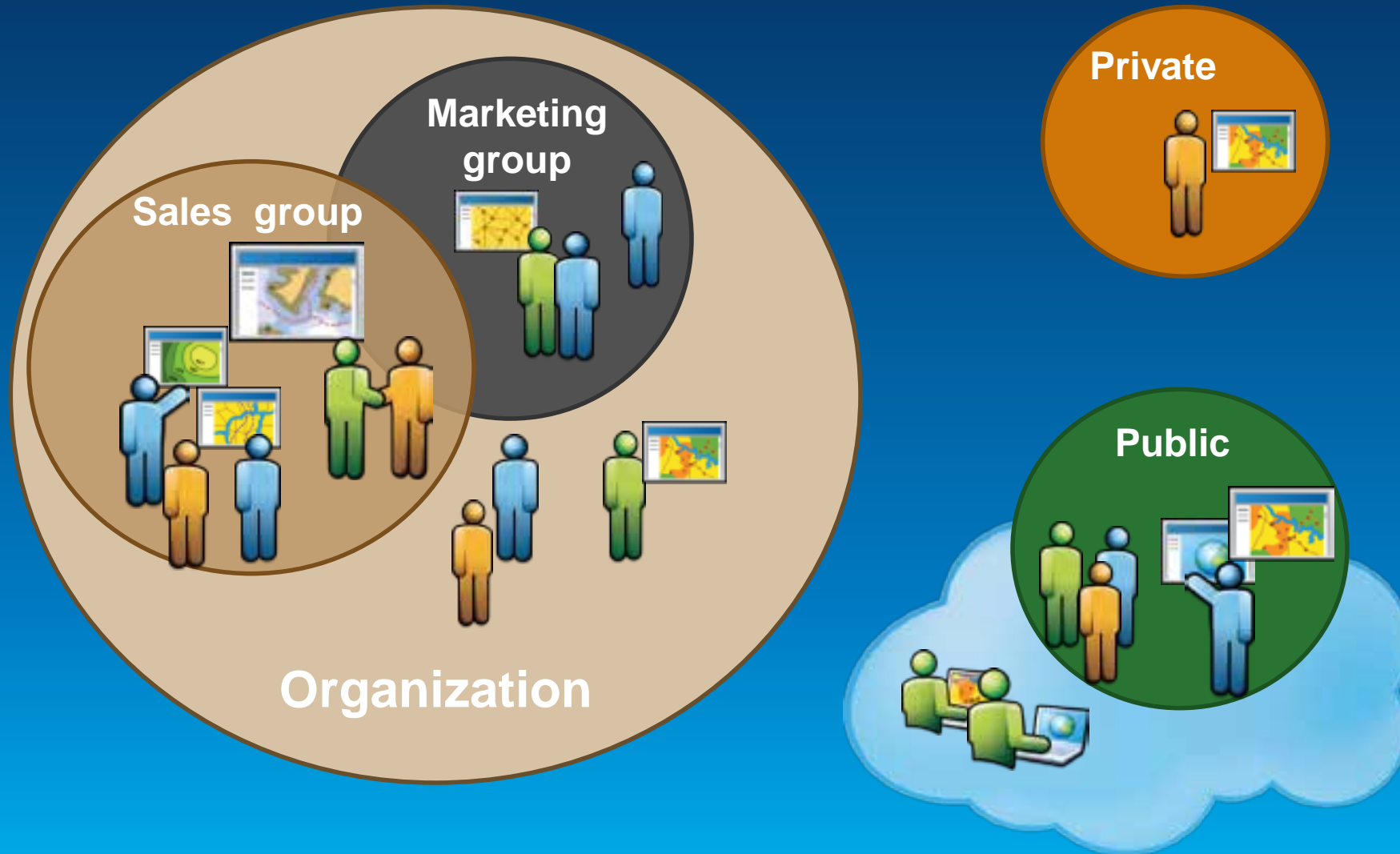
## Administer your organization

- Configure website
- Invite users
- Manage resources
  - Manage items
  - Manage groups

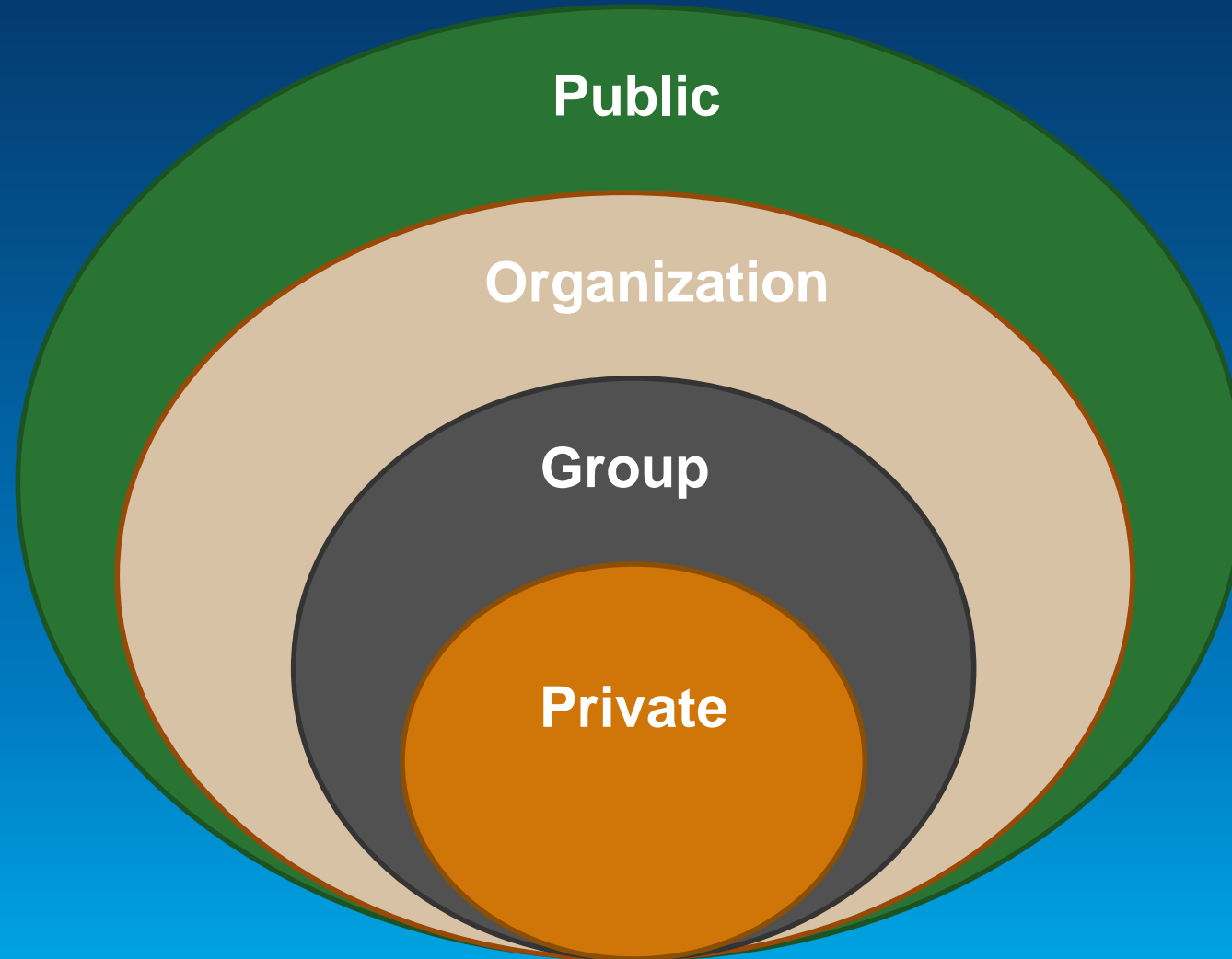
# ArcGIS Online information model



# ArcGIS Online sharing options



## ArcGIS Online sharing levels



## Sharing content

The Land Trust of Wyoming has created web maps illustrating their current parcels, parcel prioritization, and parcel maintenance. The management and maintenance team need to access this information.

Who should the web map author share these web maps with?

# Access & privileges



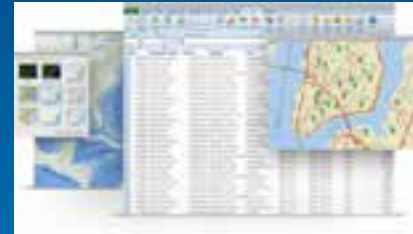
## Table of privileges

Privilege	User	Publisher	Admin	Custom
Use maps and apps	Yes	Yes	Yes	Yes
Create items	Yes	Yes	Yes	Optional
Share maps and apps	Yes	Yes	Yes	Optional
Join and create groups	Yes	Yes	Yes	Optional
Edit features	Yes	Yes	Yes	Optional
Publish hosted features and tiles		Yes	Yes	Optional
Perform analysis		Yes	Yes	Optional
Invite users to organization			Yes	Optional
Manage organization resources			Yes	Optional
Configure website			Yes	
Create custom roles			Yes	
View subscription stats			Yes	
ArcGIS Marketplace provider			Yes	



# Apps

- Collector for ArcGIS
- Esri Maps for Office
- Web Application Templates
- Operations Dashboard
- Esri Maps for SharePoint
- ArcGIS App for Smartphones and Tablets



# Questions



Thank you...

- Please fill out the session survey:

**Offering ID: 1064**

Online – [www.esri.com/ucsessionsurveys](http://www.esri.com/ucsessionsurveys)

Paper – pick up and put in drop box



Understanding our world.