Sharing Your Work with the Living Atlas of the World

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Session Topics

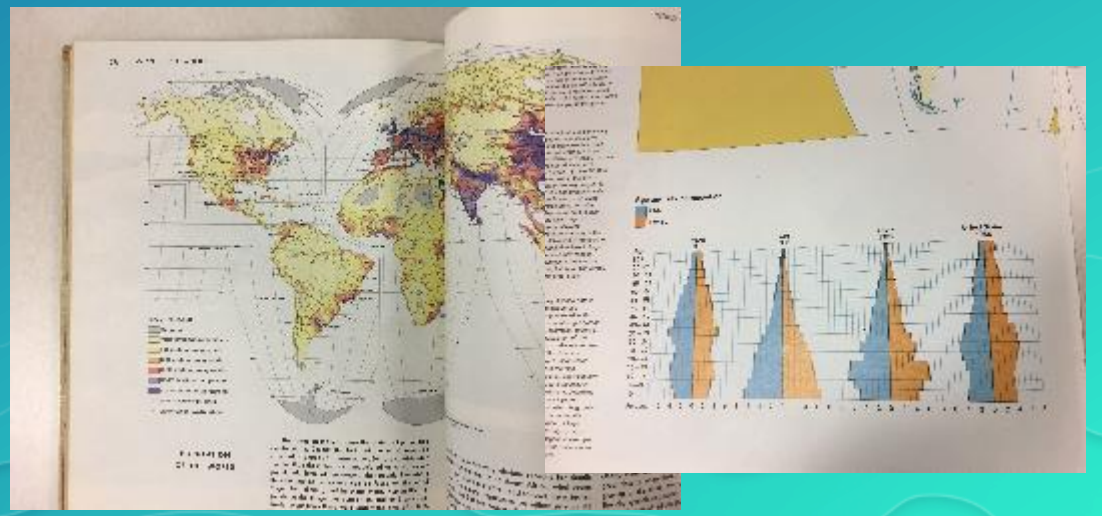
- The Living Atlas
- Sharing Maps and Apps
- Sharing Data to the Community Maps Program

An Atlas?

Concept of an atlas

- Collection of maps, graphs and stories
  - geopolitical
  - world economics
  - population
  - natural phenomena – weather – vegetation - geology
  - transportation
  - social
- Compiled by subject matter experts (scientists!)
- Curated by lead author(s)

Books are a snap-shot in time



ArcGIS includes a Living Atlas of the World

- **Maps and Layers from Esri and Thousands of Contributors**

The Collection is growing and changing on a daily basis…

Transportation
Weather
Historical
Landscape
Habitats
Urban Systems
Basemaps
Elevation
Boundaries
Soils
Land Cover
Hazards
Oceans
Imagery
Hydro
Observations
Demographics

- **… with Curated Content on Many Topics**

Living Atlas Topics or Themes

Basemaps

Demographics and Lifestyle

Transportation

Urban Systems

Boundaries and Places

Imagery

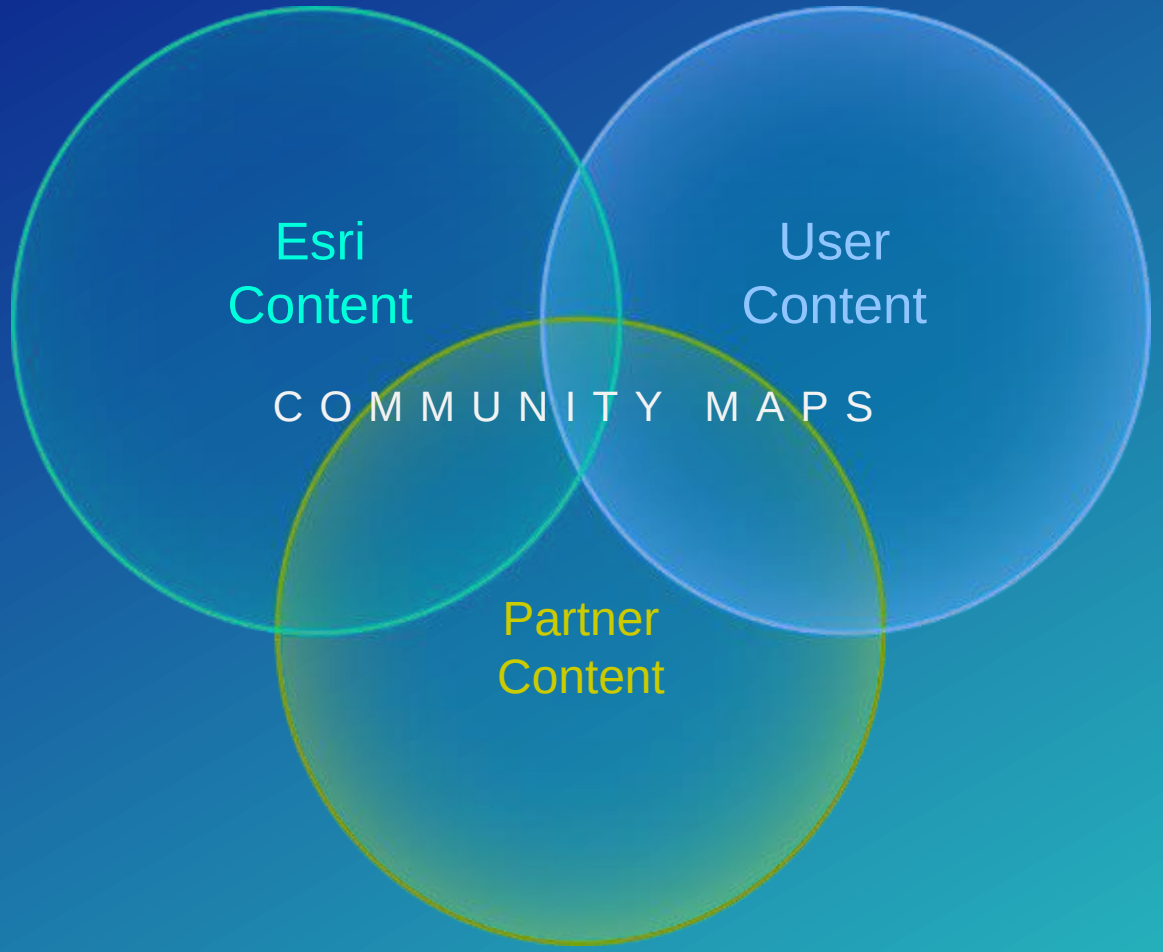
Landscape

Oceans

Earth Observations

Living Atlas Content is Published by Esri, Users, and Partners

- **Built by the ArcGIS Community and Curated by Esri**



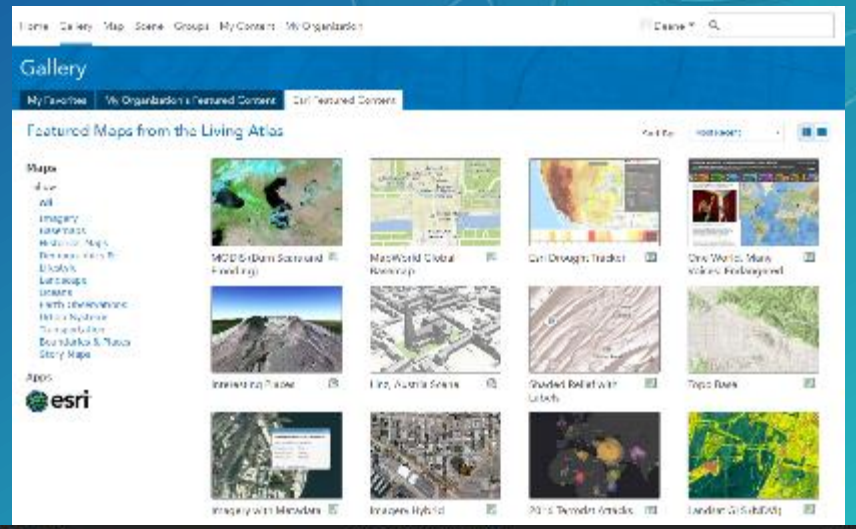
Accessing the Living Atlas through ArcGIS

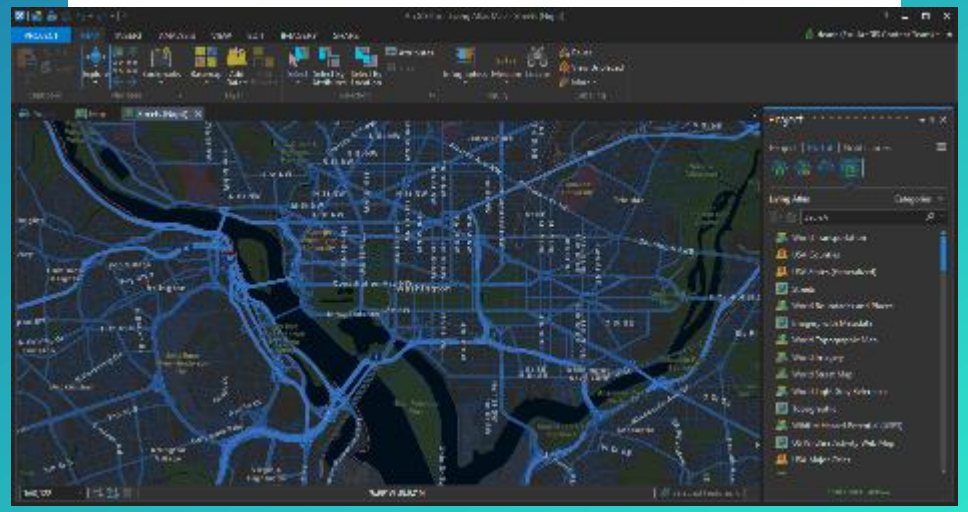
- **Multiple ways to Experience the Living Atlas through ArcGIS Apps**

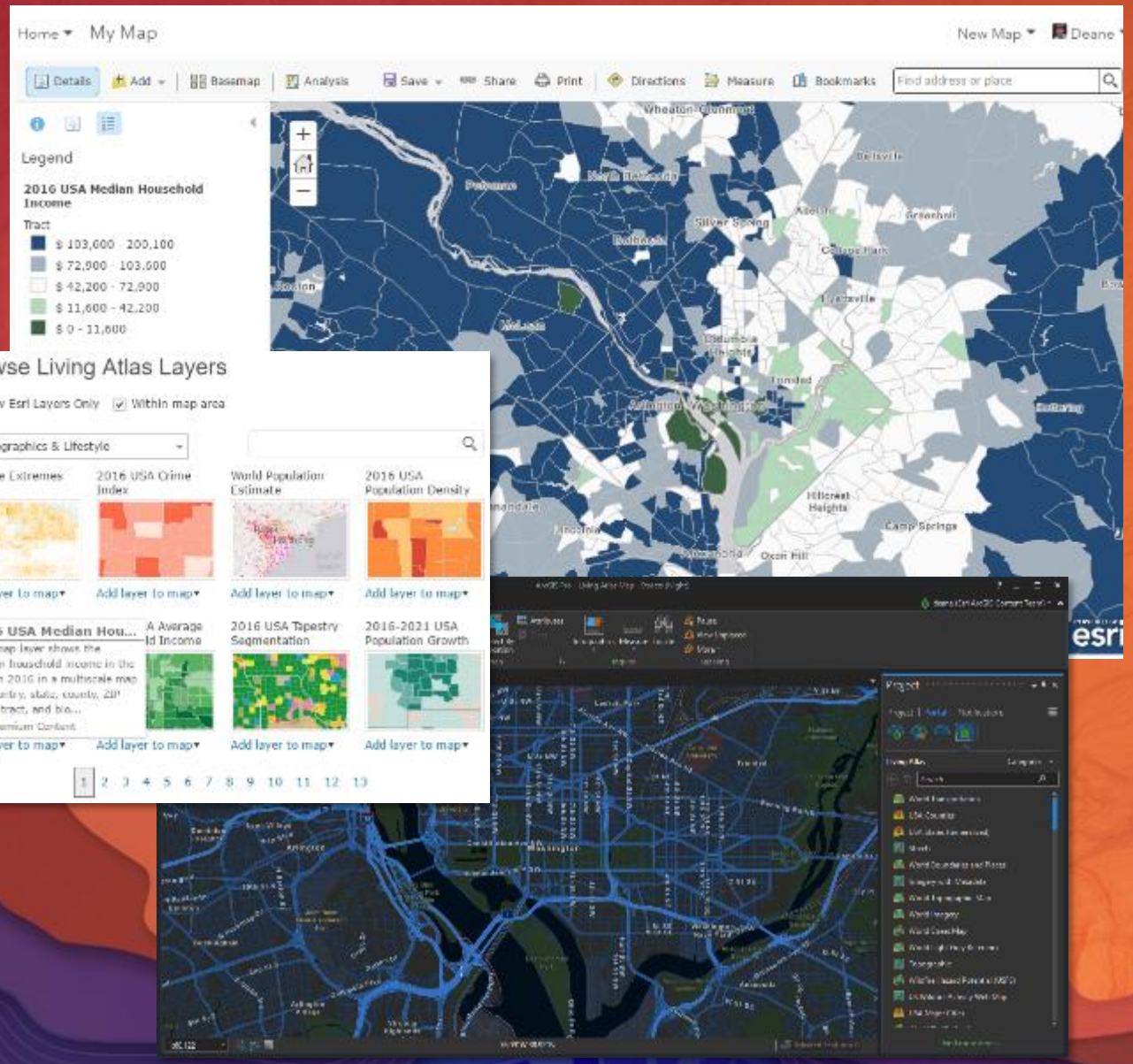
  - Living Atlas of the World Website
    - Browse and preview maps, layers, and tools

  - ArcGIS Online & ArcGIS Enterprise (Portal) 10.5!
    - Gallery: Esri Featured Content
    - Add Data: Browse Living Atlas Layers
    - Analysis: Choose Living Atlas Layers

  - ArcGIS for Desktop
    - ArcGIS Pro 1.2+
    - Open Maps, Add Layers, Perform Analysis







Explore Living Atlas

Demo

You’re invited to Share

We’re all a community – Consumers, Curators, and Contributors

Share your Best Maps and Apps

Share Data to Community Maps

Why? What? Where? & How?

Share Maps, Apps, and Layers

Why?

Showcase your work

Reach a broad audience

Make your items more discoverable

Help build the GIS of the world

Share Maps, Apps, and Layers

ArcGIS Items to Share

- Story Maps and Apps
- Feature Services & Scenes
- Web Maps
- Tools

Relevant topic to the Living Atlas Themes or Subtheme

What?

- Imagery
  - Basemap Imagery
  - Multispectral
  - Temporal
  - Event
- Basemaps
- Historical Maps
- Demographics & Lifestyle
  - Income
  - Spending
  - Population
  - Business & Jobs
  - Poverty & At Risk
- Landscape
  - Agriculture
  - Climate & Weather
  - Ecology
  - Species Biology
  - Disturbance
  - Elevation
  - Land Cover
  - Natural Hazards
  - Soils
  - Subsurface
  - Water
- Oceans
- Earth Observations
- Urban Systems
  - 3D Cities
  - Movement
  - Parcels
  - People
  - Planning
  - Public
  - Work
- Transportation
  - Accessibility
  - Infrastructure
  - Logistics
  - Traffic
  - Transit
- Boundaries & Places
- Story Maps

Share Maps, Apps, and Layers

Where?

Contributor App

Livingatlas.arcgis.com

My Contributions (requires log in)

My Content

Share Maps, Apps, and Layers

How?

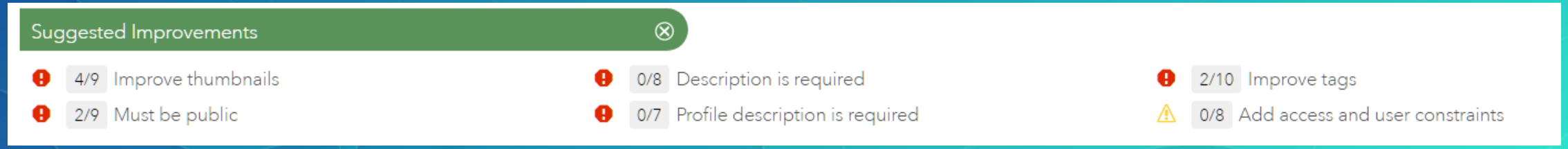
Create Item

Share Publically

Scoring System for Items

Improve your map, App, or layers with:

- Rich thumbnail images
- Well written descriptions and profiles
- Hyperlinks
- Appropriate tags



Shared Items Living Atlas

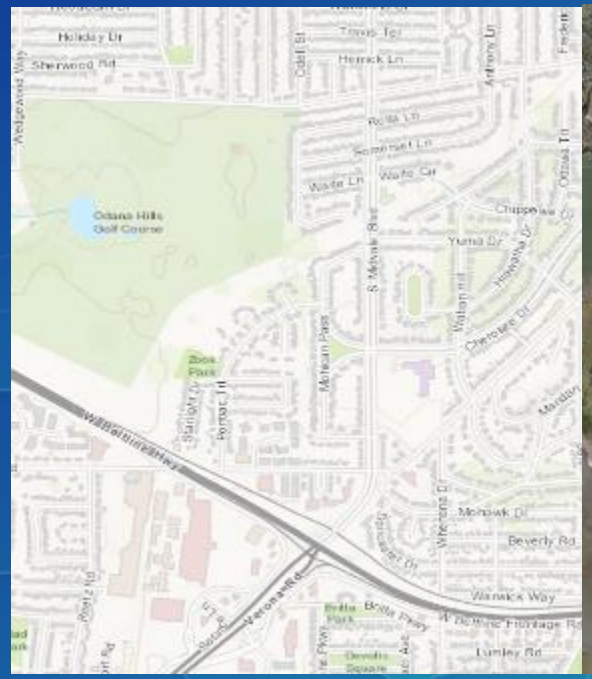
Demo

Share data to Esri's Foundation Layers

Community Maps Program

Goal: enhance foundation layers with rich, up to date data from the community

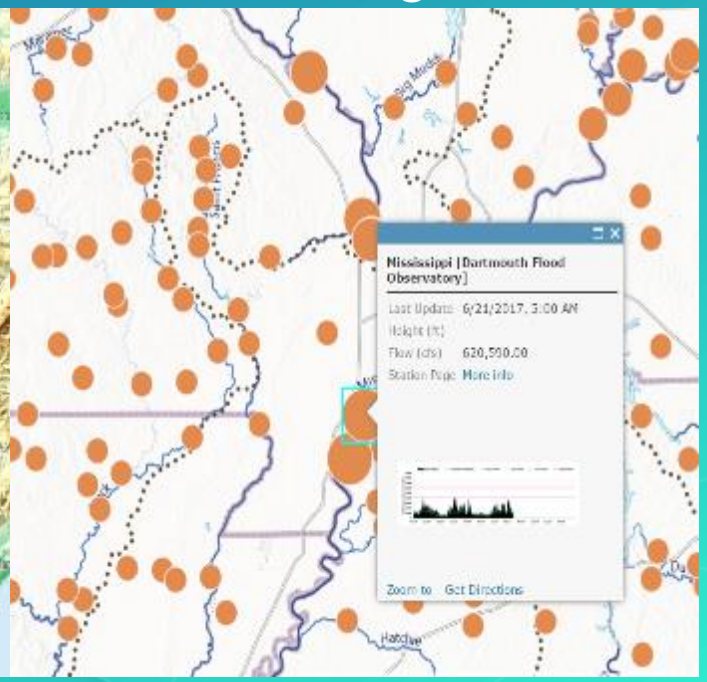
Basemaps



Imagery

Elevation Services

Stream Gauges



Share data with Community Maps

Why?

Something is wrong or missing in the current map

You have more detailed data

Your data is more up to date

and, you want your audience viewing your data

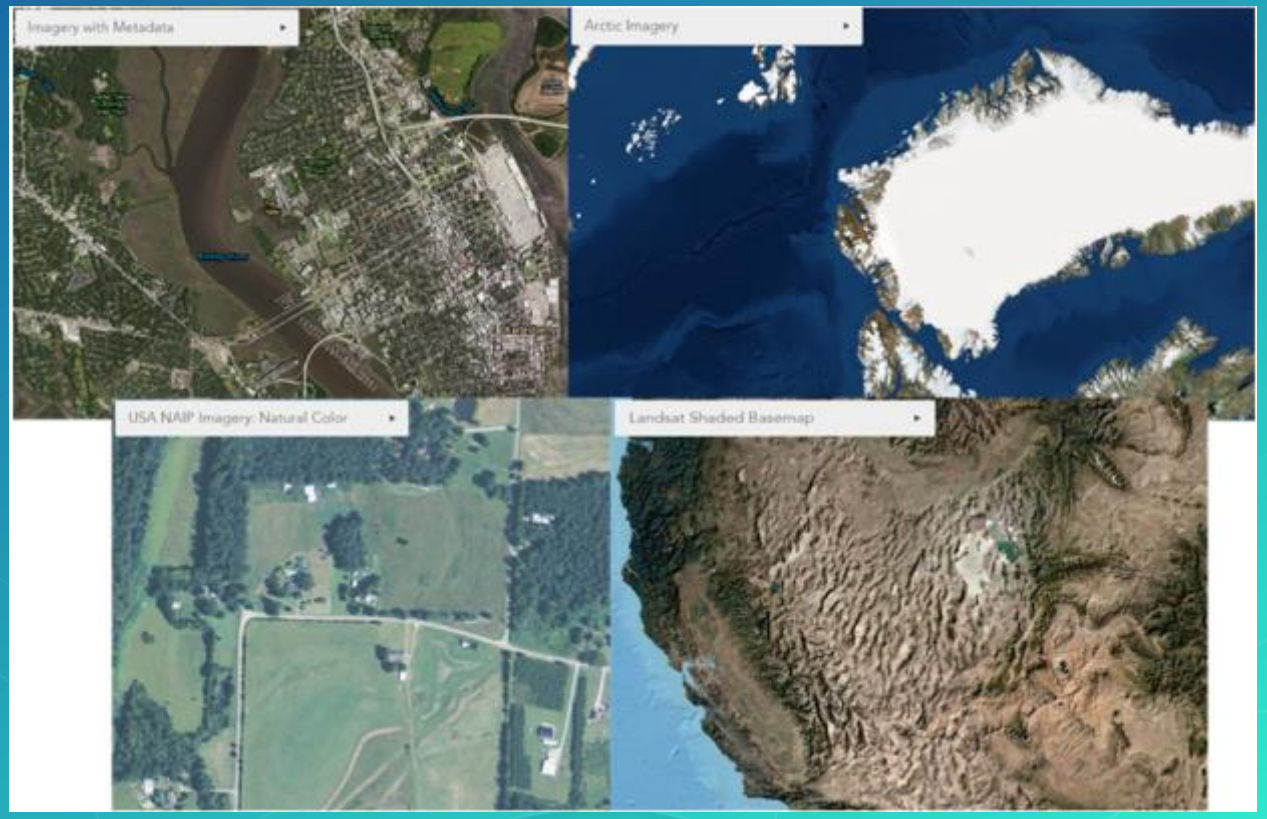
Participate in our basemap feedback services or register and submit layers

Share data with Community Maps

Contribute Imagery to the World Imagery Map

More current and high resolution

Raw imagery format

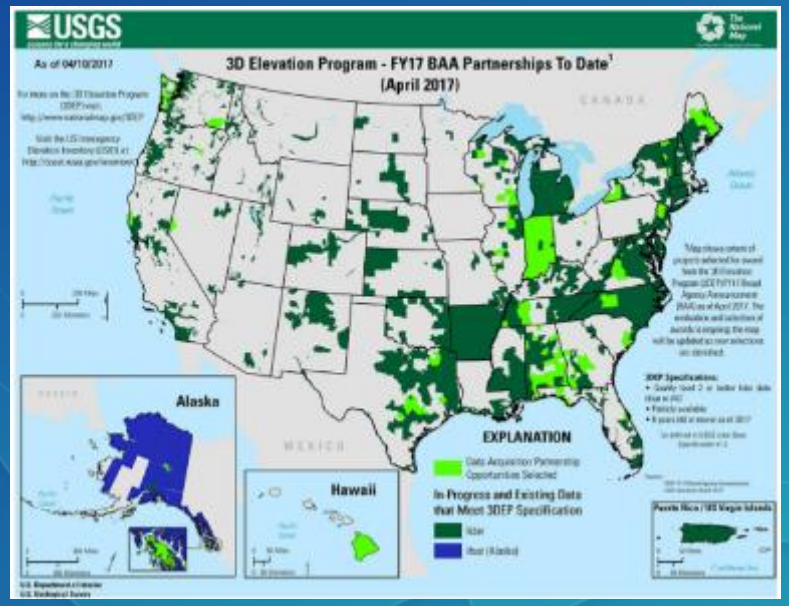


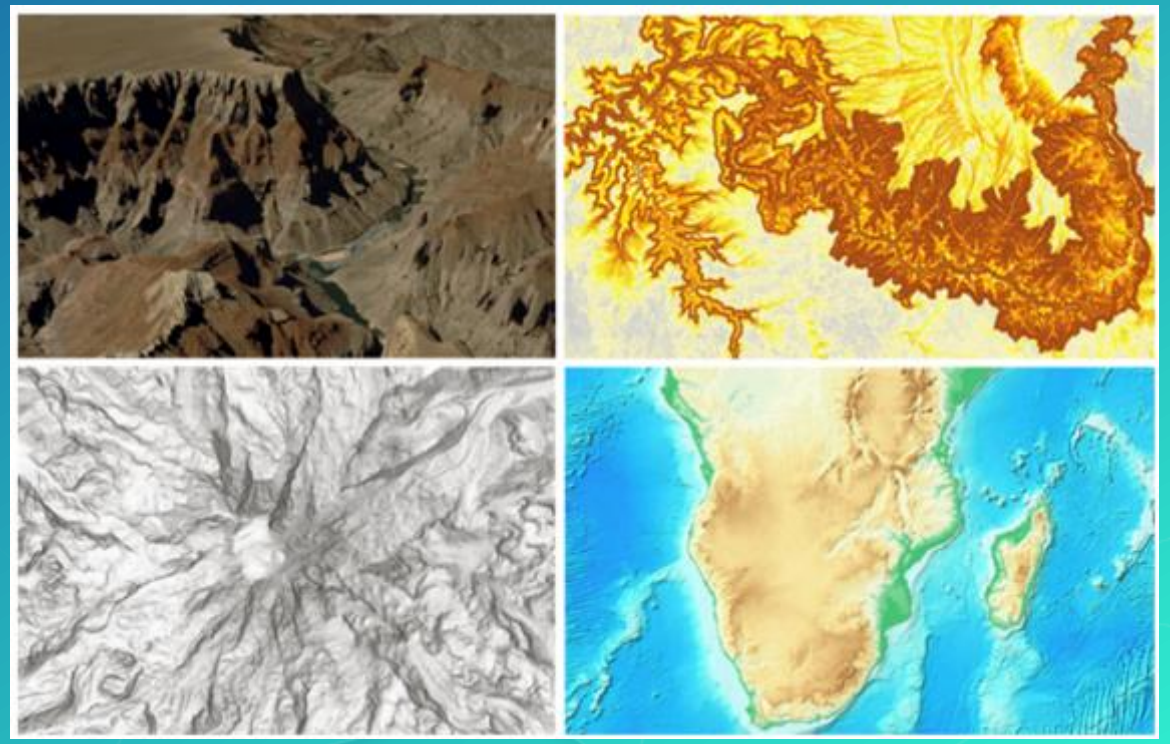
Share data with Community Maps

Contribute Elevation data to the Elevation Services

Current and high resolution LiDAR data format

Participate in the 3DEP program at USGS?





Share data with Community Maps

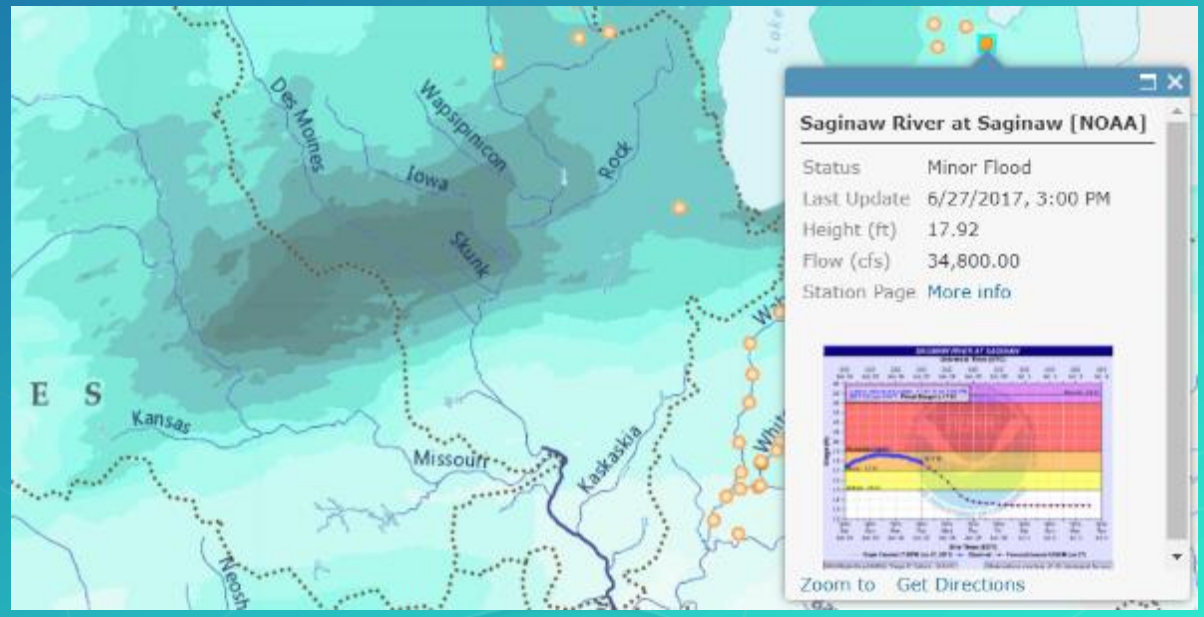
Contribute stream gauge points and live feeds

Supports the suite of hydrologic analysis maps and tools

Real-time depth and/or flow rate observations - live telemetry

Machine readable (XML or tab-delimited)

Time series query to create graphs



Share data with Community Maps

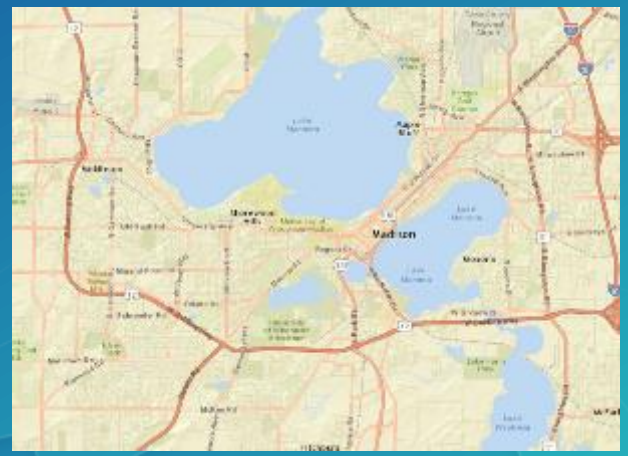
What?

Contribute rich GIS data to the ArcGIS Online basemaps

Buildings and campus features

Parks and land use polygons

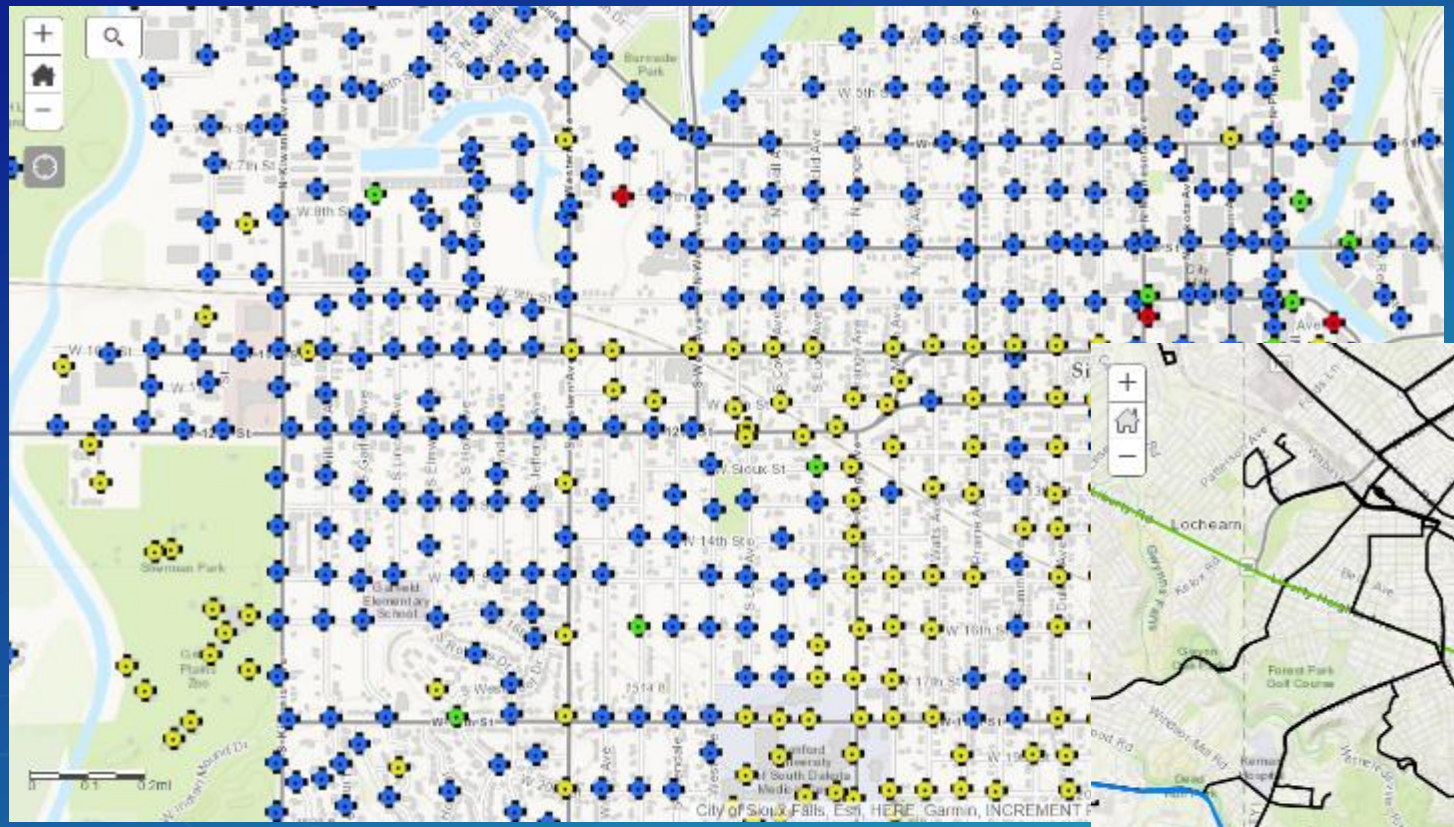
Basemap Layers vs. Operational Layers

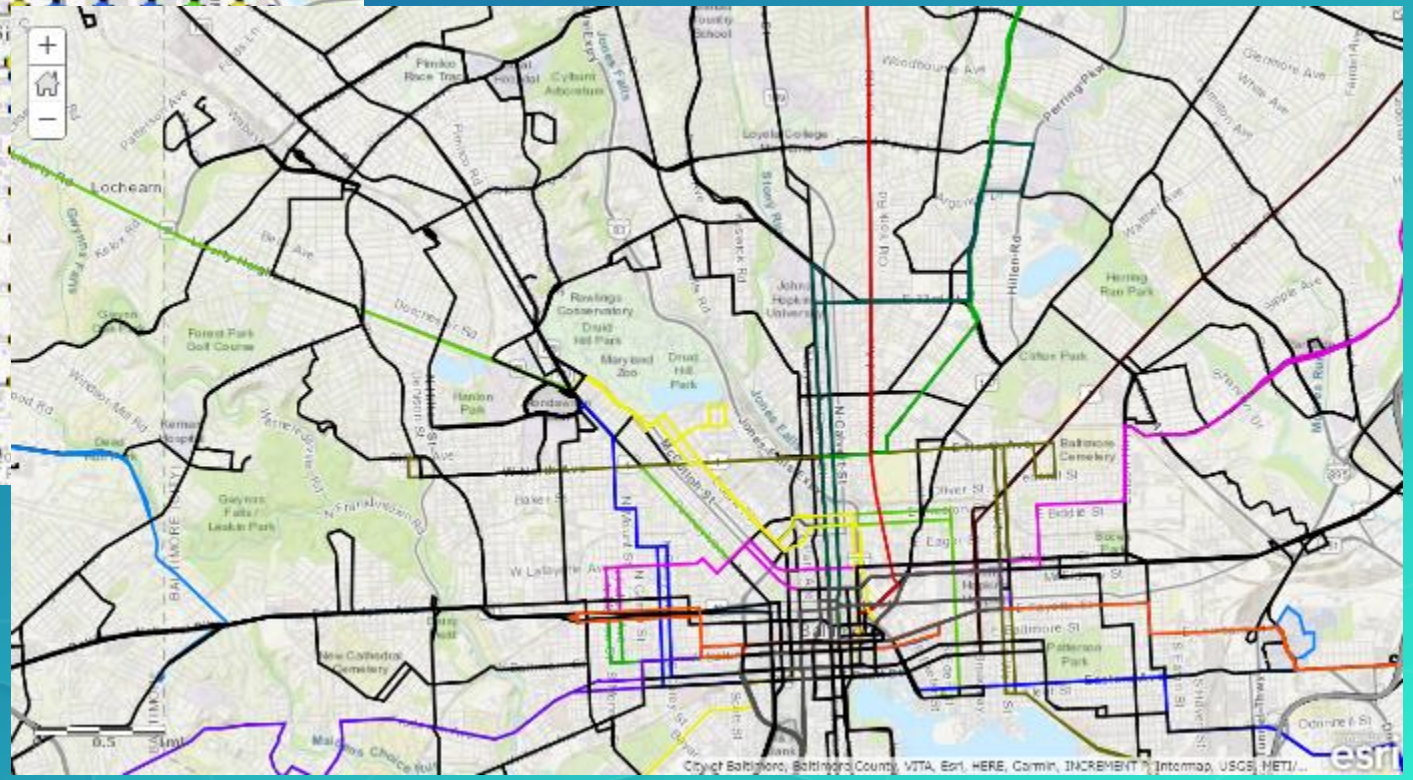


Examples of Operational Layers

What?

Hydrant flushing records





City Bus Routes

Basemap Layers

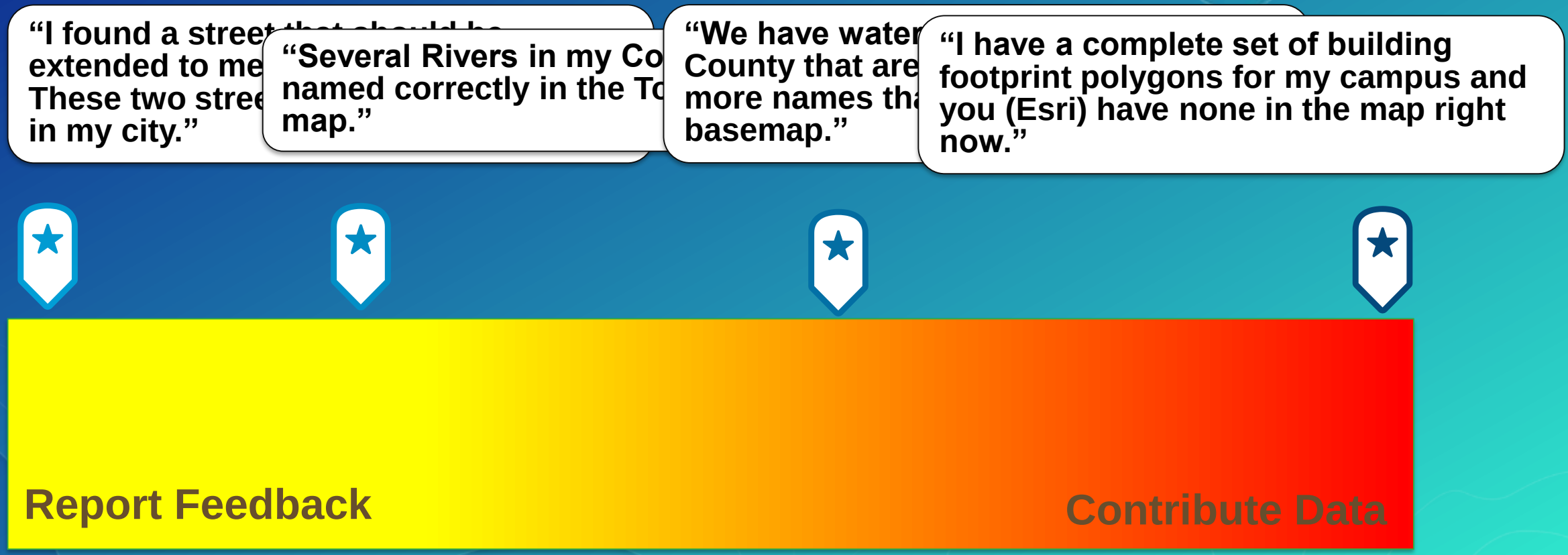
What?

- **Layers Include:**
  - Building Polygons
  - Parcel Polygons
  - Tree Points
  - Land Use Polygons
    - Airports
    - Educational
    - Medical
    - Parks
  - Road Lines
  - Administrative Lines
  - Campus Features
    - Landscape Polygons
    - Hard Surface Polygons
    - Sports Field Polygons

Share Data with Community Maps

Why?

When to share **feedback** or when to share **data**?



Share data with Community Maps

Data

- Map Feedback
- Contributor Data
- Commercial Data
- Open Data

Feedback Services

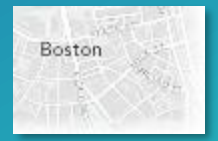
Contributor App

Global Database

Basemap Templates

World Topo Map

World Street Map



Canvas Maps

Vector Basemaps

Share data with Community Maps

How?

Workflow for contributing to the basemaps

Share data with Community Maps

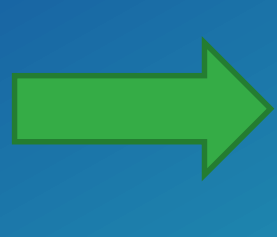
How?

Data Prep Tools

Data sources

Data Prep Tools

Output geodatabase



Share data with Community Maps

How?

Ways to get data to Esri:

Zipped file geodatabase

Upload

In Beta

ArcGIS Open Data services

Hosted Feature Service

Service URL

Esri will pull data from your service at a frequency – one time, 6 months, 12 months

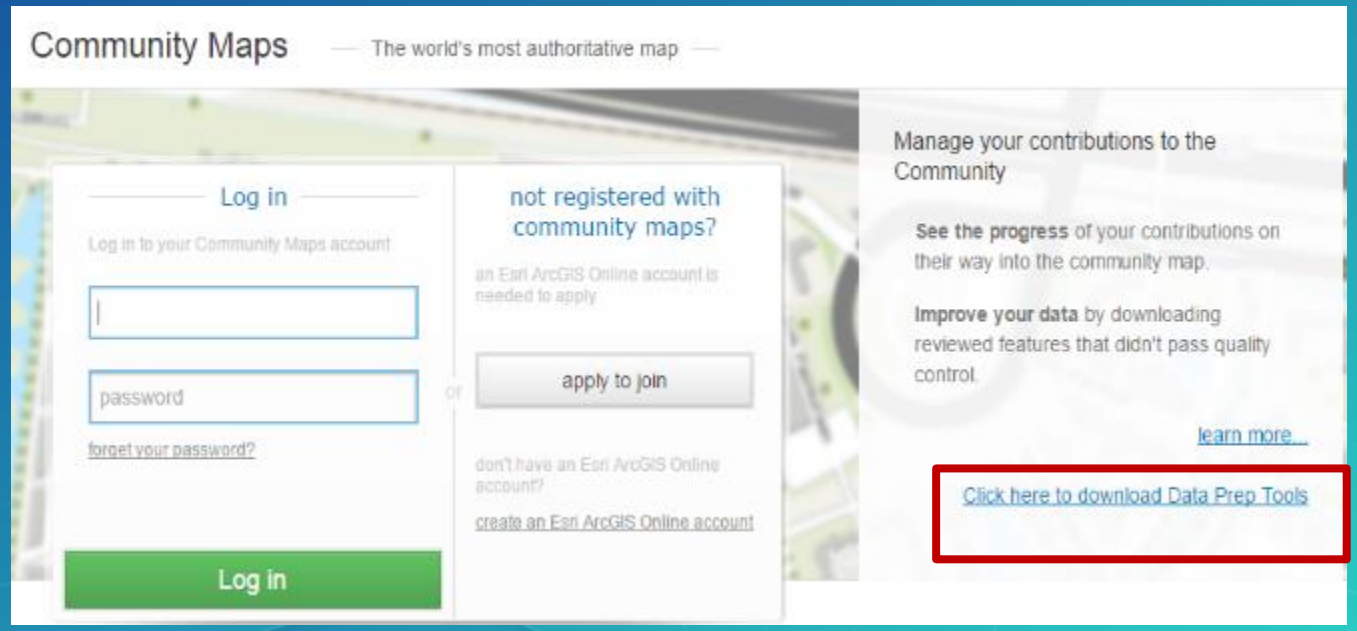
Feature and attribute mapping

Share data with Community Maps

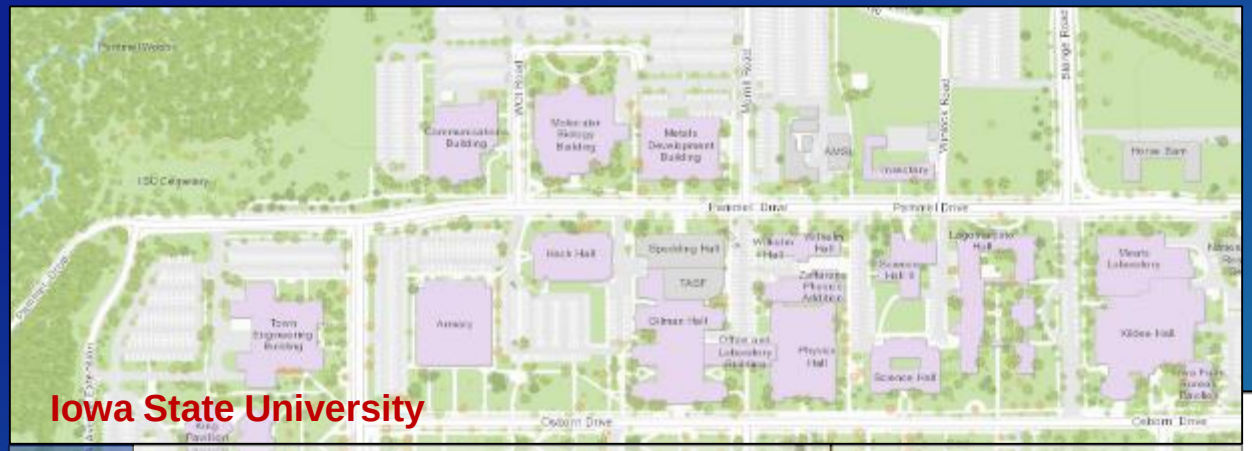
Where?

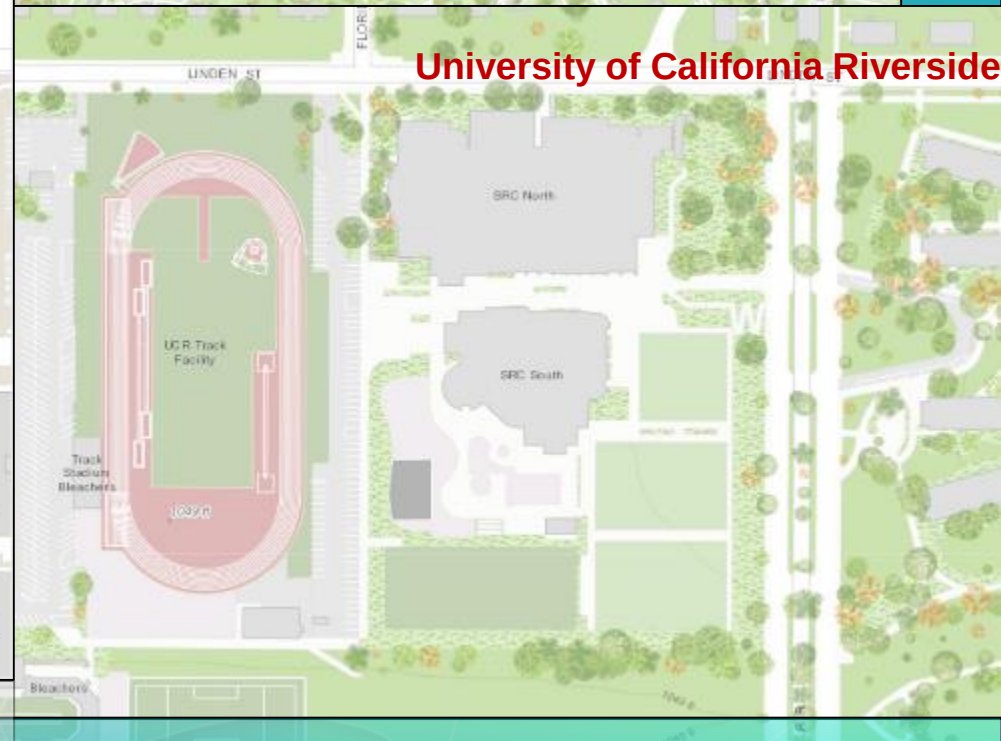
Community Maps Contributor App

Communitymaps.arcgis.com



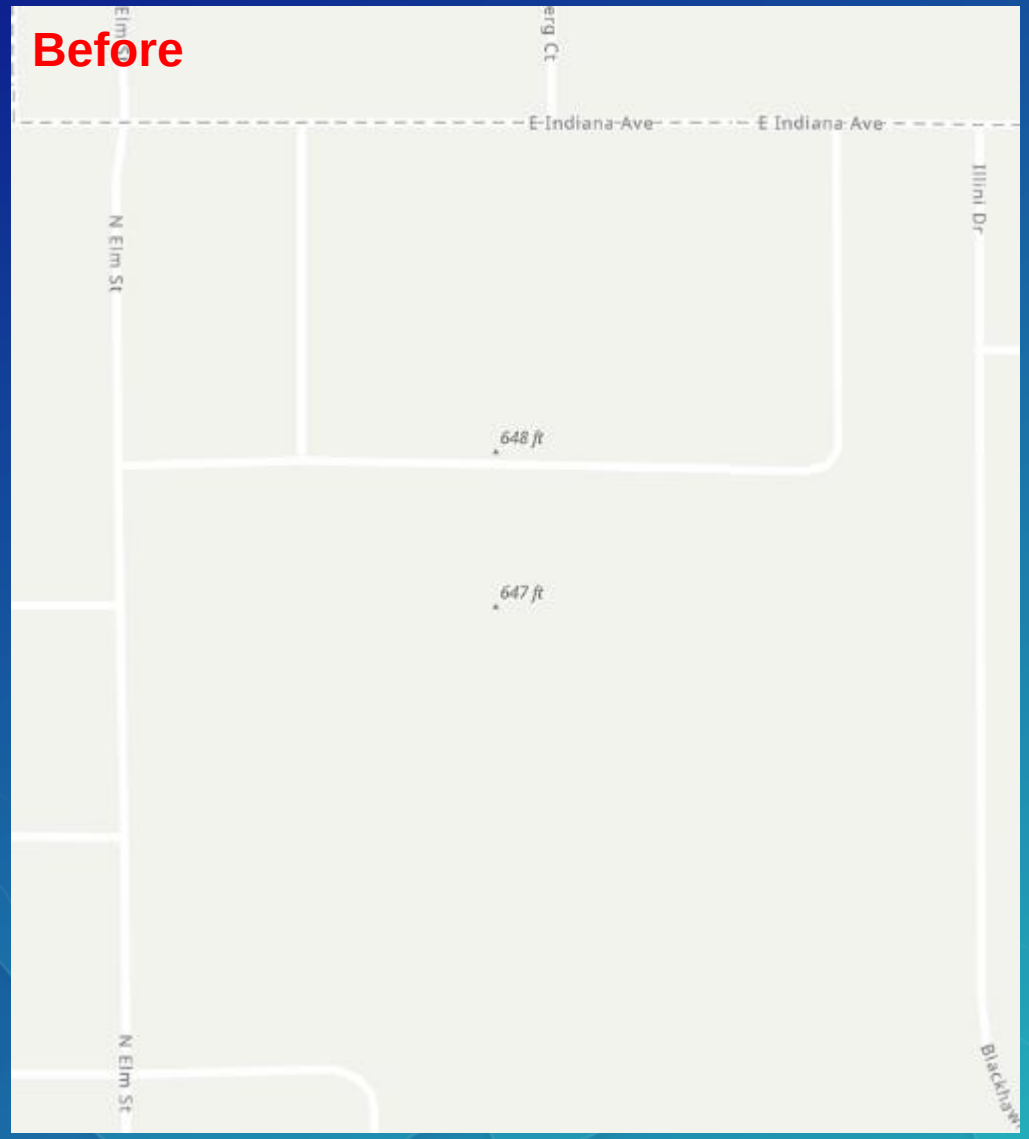
Campus Basemap Initiative



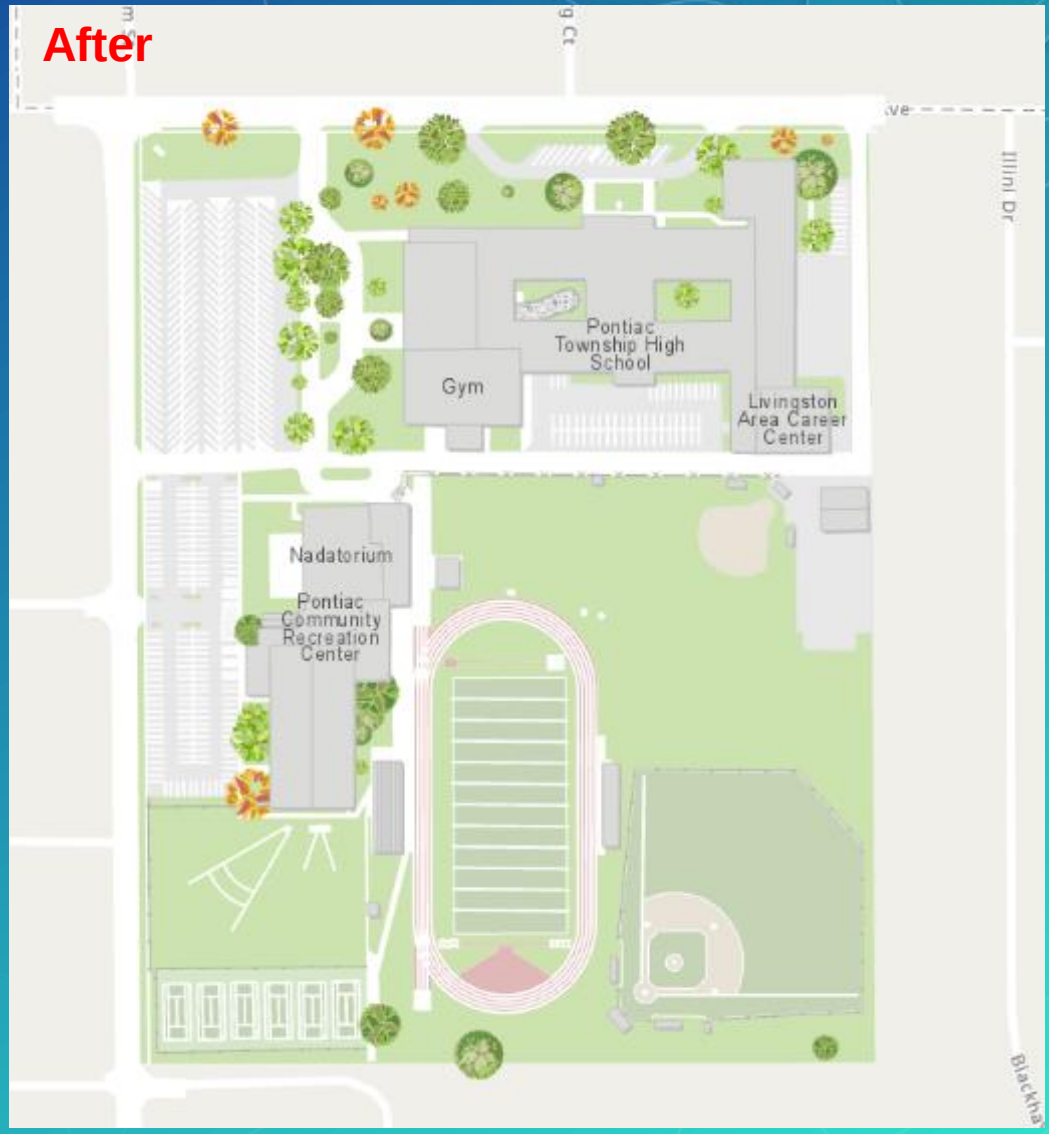


Campus Basemap Initiative

Before



After



Campus Basemap Initiative

Campuses – University, K-12, Business, Zoo, parks, or similar

New Template

ArcGIS Pro Project

- Template for creating features in a campus
- Digitize feature directly into Community Maps Model

Tips and tricks available

Make this a GIS day project

Contact us at communitymaps@esri.com if interested!

In Conclusion

Living Atlas – collection of great maps and apps – GIS of the world

Participate in this great collection

Share your apps and maps

Share your data to support Esri's foundation layers "Community Maps"

Livingatlas.arcgis.com for more information

Questions?

communitymaps@esri.com

Frequently Asked Questions

Q: Which basemaps will my GIS data appear in if we contribute to Community Maps, and how long is the process?

Q: What happens if I get a Web Map nominated to the Living Atlas and I take down a service that was used in the Web Map?

Q: What data rights do I need to have before I can donate imagery to the ArcGIS Online basemaps?

Frequently Asked Questions

Q: How often can we submit updates to our Community Maps layers and do I need to send you all of the data again?

Q: Does it cost ArcGIS credits to nominate an item to the Living Atlas?

Q: Can I see the basemap before it's 'live' in ArcGIS Online basemaps to be sure the data is correct?

Frequently Asked Questions

Q: Does contributing my data to Community Maps mean that the public can download my GIS data from ArcGIS basemaps?

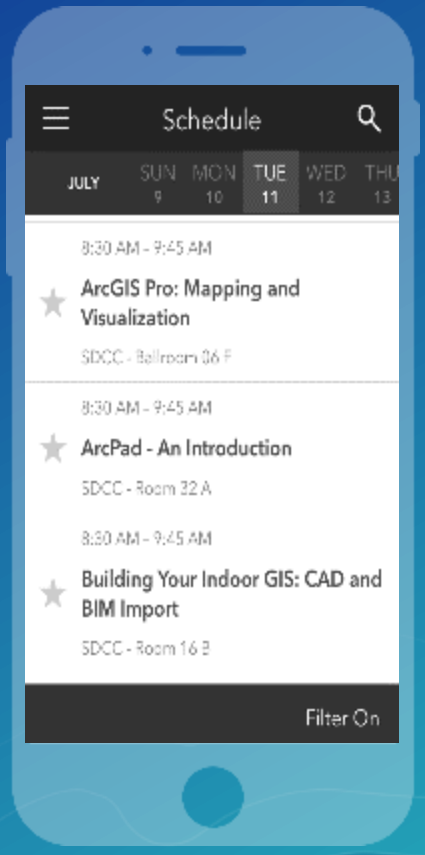
Q: How often do you expect us to make updates to the basemap data we contributed?

Q: Would you ever replace the imagery I contributed with another source?

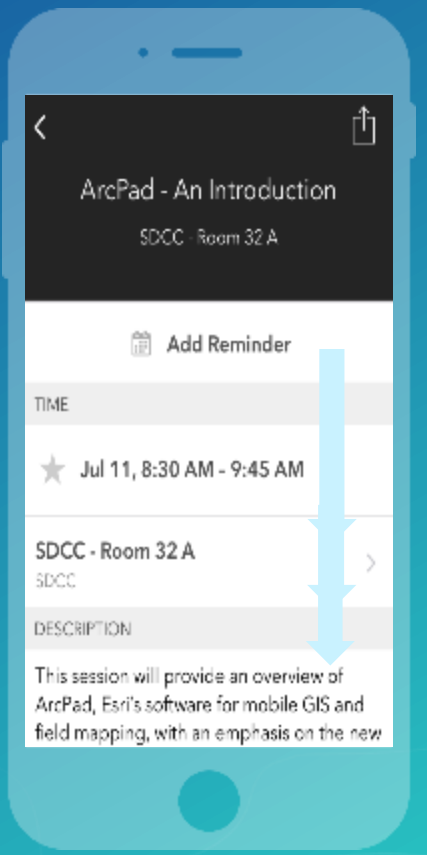
Please Take Our Survey on the **Esri Events App!**

Download the Esri Events app and find your event

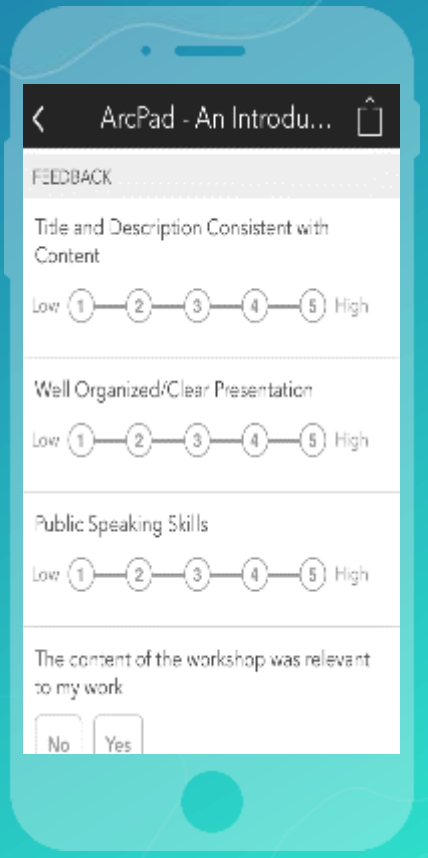
Select the session you attended



Scroll down to find the survey



Complete Answers and Select "Submit"



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