



Esri Community Maps Program Best Practices For Contributing Data

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Community Maps Team

SEE
WHAT
OTHERS
CAN'T

First the Basics...

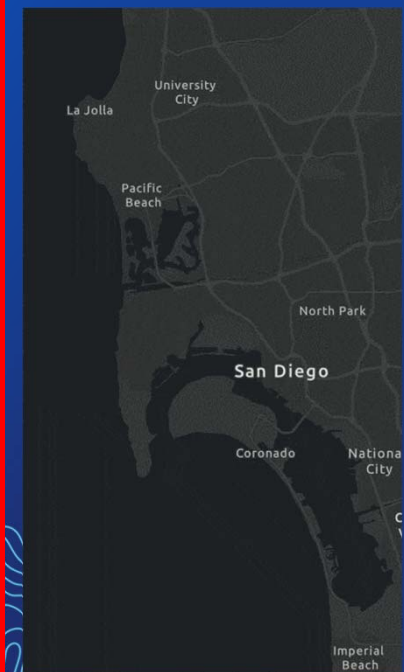
Esri Basemaps and the Community Maps Program

Community Maps Program – helps power the Living Atlas Collection

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

Community Maps for:

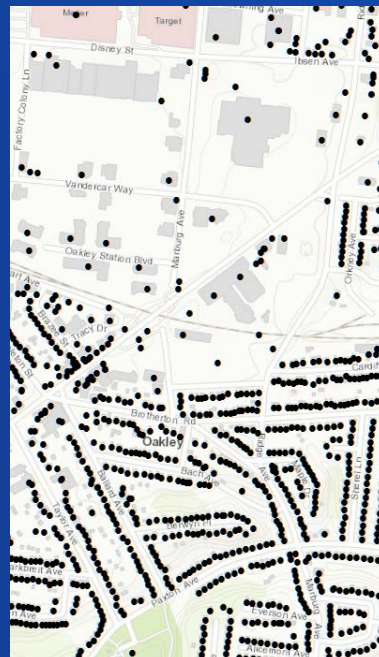
Basemaps



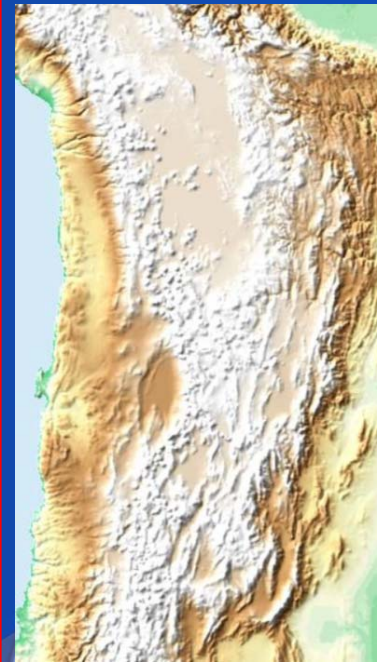
Imagery



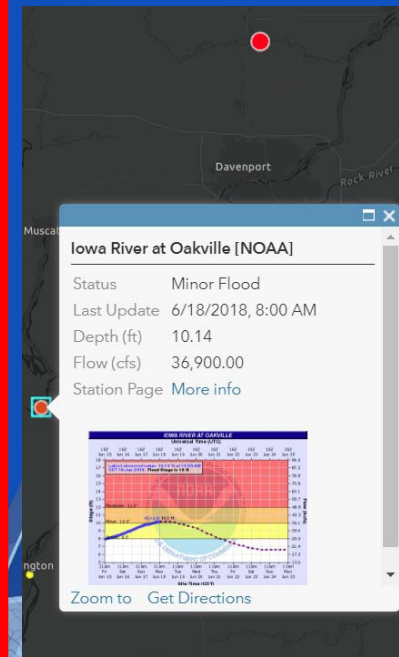
Addresses



Elevation



Stream Gauges



Audience Participation

- Which basemaps are the most popular?

- ☒ World Imagery #1 at 120 BILLION tile requests in 2018
- ☒ World Streets 55 Billion
- ☒ World Topographic 50 Billion
- ☐ Dark/Light Grey
- ☐ All of them!

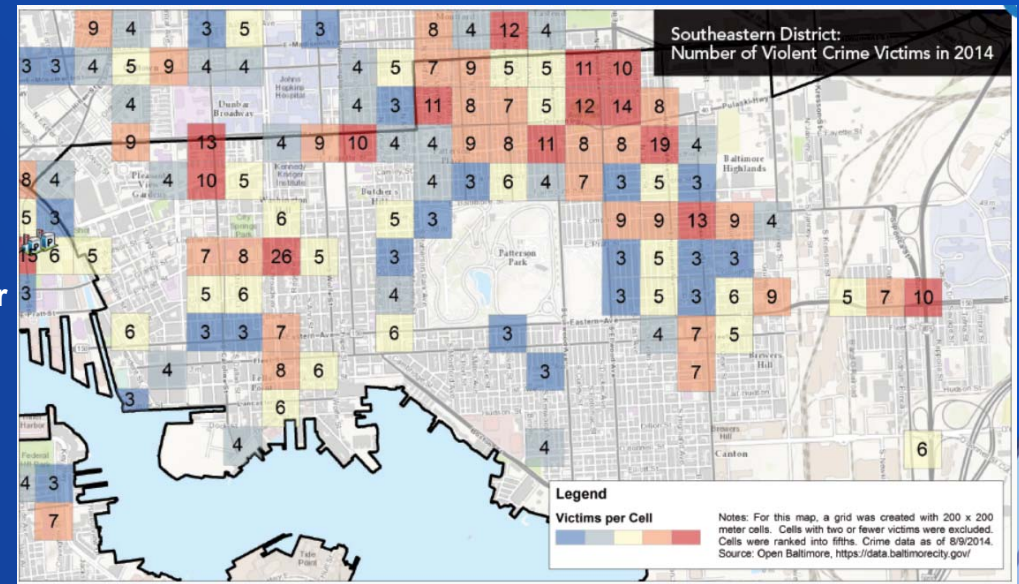
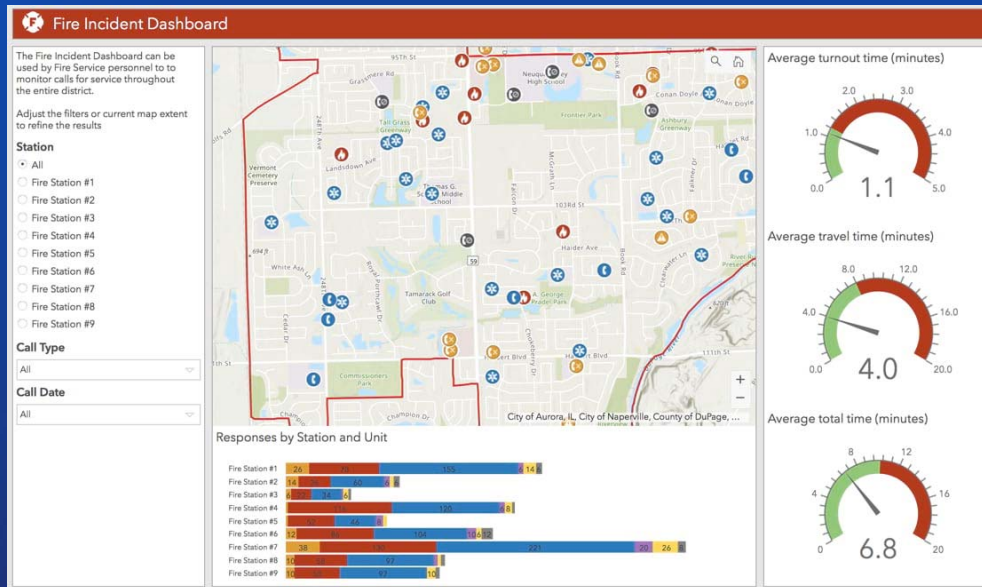
- How often are the basemaps updated?

- ☐ Every 6 months
- ☐ Every 3 months
- ☒ Every 3 weeks Vector basemap globally regenerated every 3 weeks
- ☐ Every week
- ☐ It Depends...



Using Basemaps

- Improve Basemaps = Improve maps and apps!
- Improve Maps and Apps = Improve Communication to your users (citizens or customers)
- Improve Communication = Improve Results



Community Maps Contributors are a part of this process!

Session Takeaways

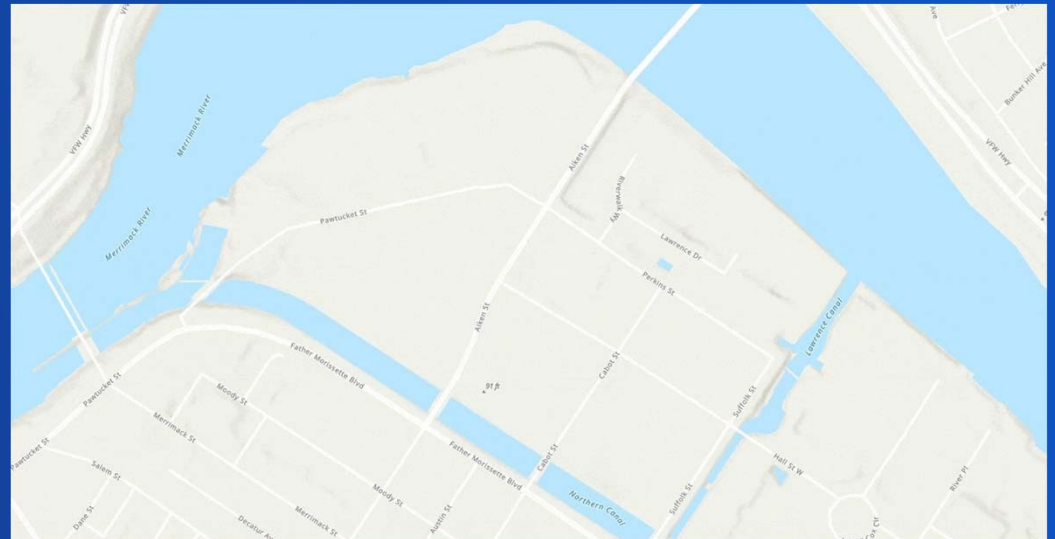
“Begin with the End in Mind” (Stephen Covey)

Key takeaways

1. Use the Community Maps Program to **improve the Basemap**

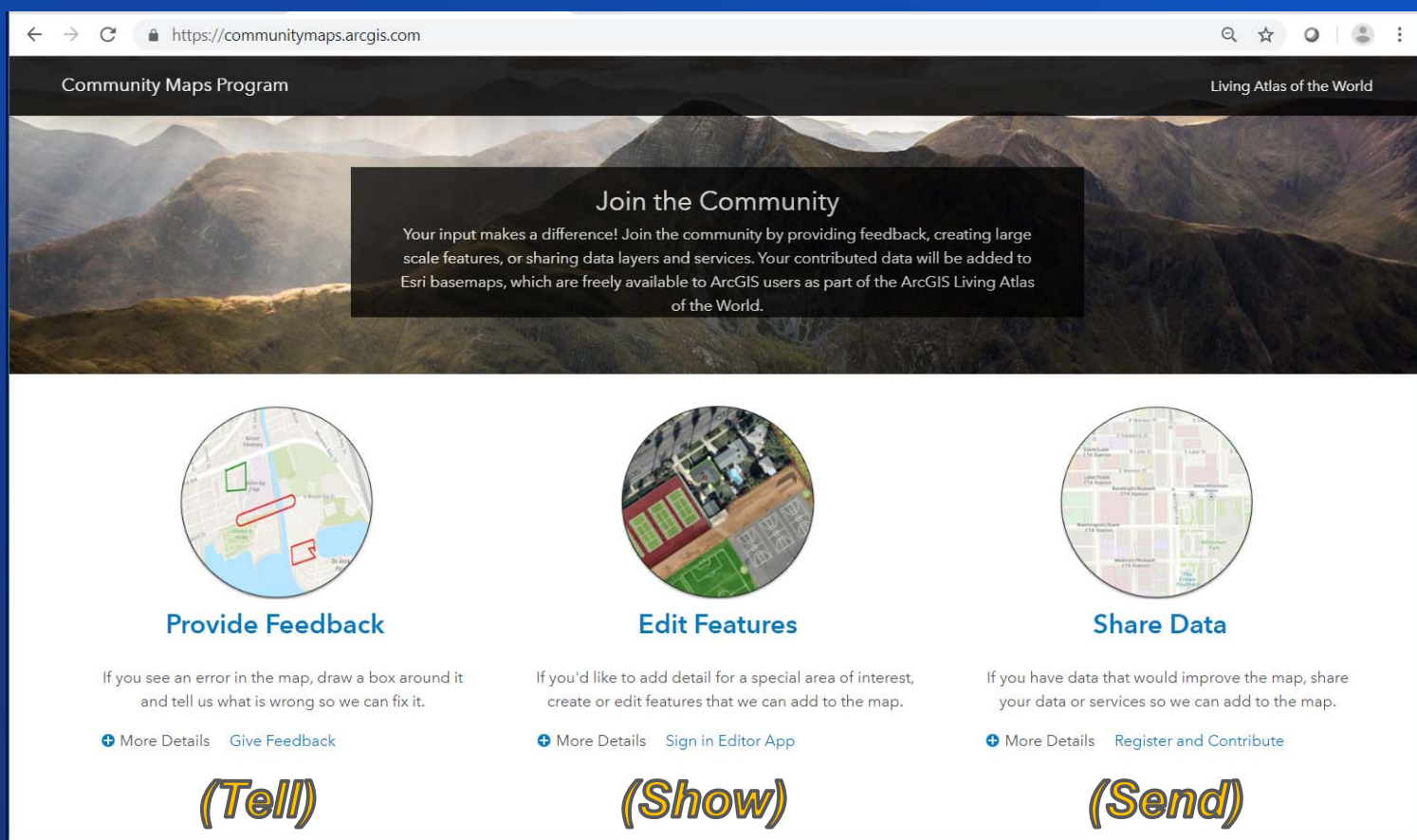
2. Participate in three ways:

- **Tell us** what's missing (Feedback)
- **Show us** what's missing (Edit)
- **Send us** what's missing (Share)



3. Remember <https://CommunityMaps.arcgis.com>

The CMP Homepage: <https://CommunityMaps.arcgis.com>



The screenshot shows the homepage of the Community Maps Program. At the top, there's a navigation bar with "Community Maps Program" on the left and "Living Atlas of the World" on the right. Below this is a large banner image of a mountain range. In the center of the banner is a dark box with the text "Join the Community" and a paragraph: "Your input makes a difference! Join the community by providing feedback, creating large scale features, or sharing data layers and services. Your contributed data will be added to Esri basemaps, which are freely available to ArcGIS users as part of the ArcGIS Living Atlas of the World."

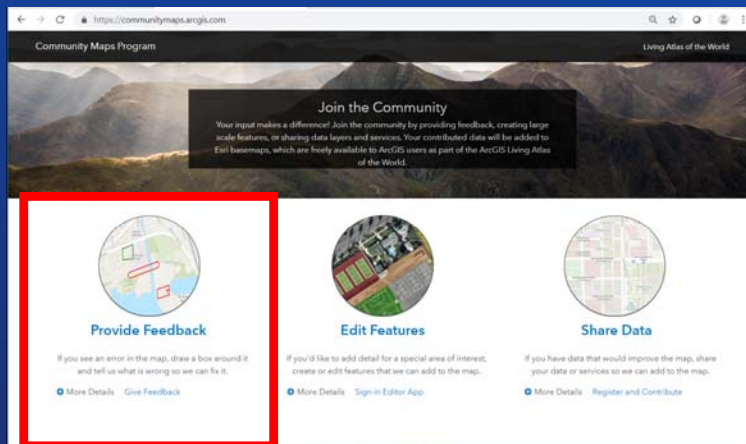
Below the banner, there are three circular icons representing different ways to contribute:

- Provide Feedback**: An icon showing a map with a red rectangle highlighting a specific area. Below it, the text says: "If you see an error in the map, draw a box around it and tell us what is wrong so we can fix it." and a link: "+ More Details Give Feedback".
- Edit Features**: An icon showing a map with a red rectangle highlighting a specific area. Below it, the text says: "If you'd like to add detail for a special area of interest, create or edit features that we can add to the map." and a link: "+ More Details Sign in Editor App".
- Share Data**: An icon showing a map with a red rectangle highlighting a specific area. Below it, the text says: "If you have data that would improve the map, share your data or services so we can add to the map." and a link: "+ More Details Register and Contribute".

At the bottom of each section, there are large, stylized, yellow-outlined text elements: **(Tell)**, **(Show)**, and **(Send)**.

Tell us what's missing: Use the Feedback Maps

- If you see an error in the map, draw a box around it and tell us what is wrong
- ArcGIS Online items and Maps that you use



Tell us what's missing: Use the Feedback Maps

- Draw a box and say what's wrong

The screenshot shows the ArcGIS Vector Basemap Feedback interface. On the left, there's a sidebar with 'Details', 'Edit' (highlighted with a red box), 'Basemap', 'About', 'Content', and 'Legend'. The 'Legend' section shows 'Vector Map Feedback - Draw Polygon to Add Comment' with 'Closed Issue' (green square) and 'Open Issue' (red square). The main map area shows a street grid with a red box drawn around a street. A red arrow points from the 'Edit' button to the red box, with the text '1. Draw Box' next to it. A feedback form titled 'Topographic Map Feedback' is open over the map. The form has fields for 'Type of Change' (set to 'Modify Feature'), 'Description of Error' (with the text 'Street name incorrect.....'), 'Status' (set to 'New Comment'), 'Notes from Esri', 'Which Map?' (set to 'Open Issue'), and 'Display Status'. The text '2. Complete Form' is written in red next to the form.

ArcGIS ▾ Vector Basemap Feedback

Details Edit Basemap Share Print Measure Find address or place

About Content Legend

Legend

Vector Map Feedback - Draw Polygon to Add Comment

Closed Issue

Open Issue

1. Draw Box

Topographic Map Feedback

Type of Change: Modify Feature

Description of Error: Street name incorrect.....

Status: New Comment

Notes from Esri:

Which Map?: Open Issue

Display Status:

2. Complete Form

Tell us what's missing: Use the Feedback Maps

The screenshot displays the ArcGIS Vector Basemap Feedback interface. The top navigation bar includes 'Details', 'Edit', and 'Basemap' tabs. The left sidebar contains a 'Legend' section with a green square for 'Closed Issue' and a red square for 'Open Issue'. The main map area shows a street grid with a red polygon highlighting a specific area. A feedback popup window is open over the map, displaying the following information:

Type of Change	Modify Feature
Description of Error	Street name incorrect. correct name oleander ave
Status	Planned for Future Update
Notes from Esri	Changes will first be visible on the Vector Basemaps
Which Map?	Multiple
Display Status	Open Issue

At the bottom of the popup window, there is a 'Zoom to' link.

3. Esri Curator Reviews and Acts

Audience Participation

- How many global feedback items are received in typical month?
 - ☐ 250 items
 - ☒ 125 items
 - ☐ 75 items
- What happens to these items?
 - ☐ Updated in Esri Basemap database
 - ☐ Sent to Commercial Data Provider
 - ☐ Some are Rejected
 - ☒ All of the above!
- What is the 'best' feedback?
 - ☐ Concise and specific details
 - ☐ Include a relevant URL or mention of a map where the feature is seen
 - ☐ Give your contact info
 - ☒ All of the above



Providing Feedback **Best Practices**

- **Do's**

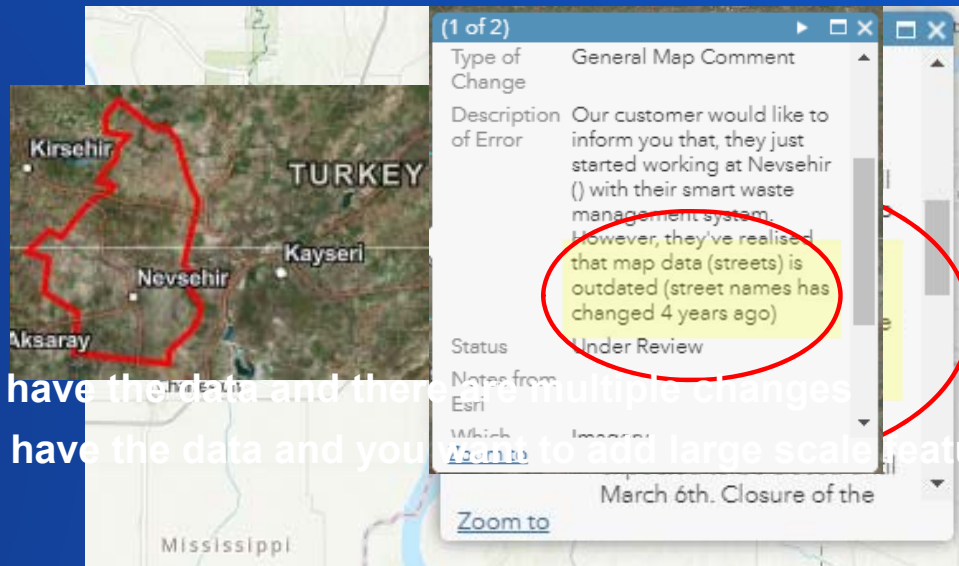
- Send a few quick edits and not entire regions
- E.g., Wrong building or street name, Missing new subdivision, Blurry imagery section
- Provide as much detail as possible

- **Don'ts**

- Send vague suggestions
- Send operational updates

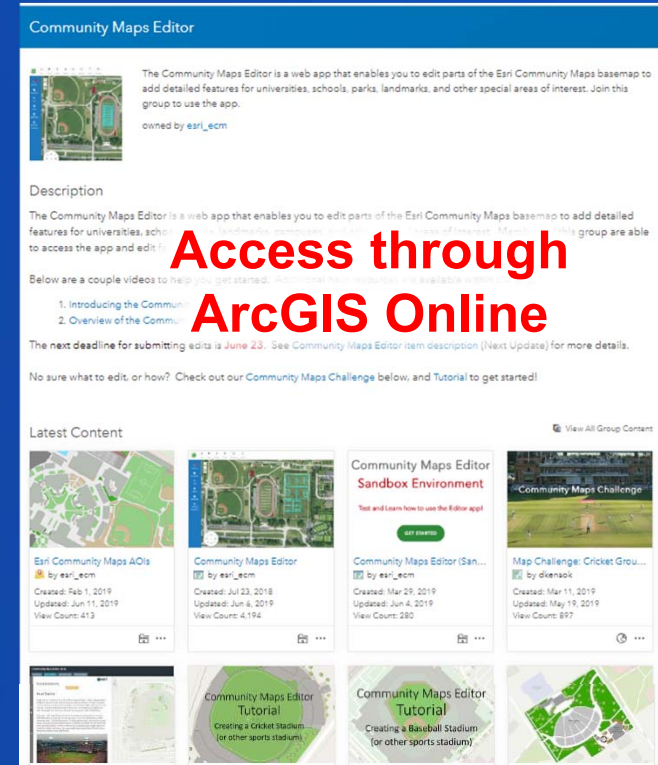
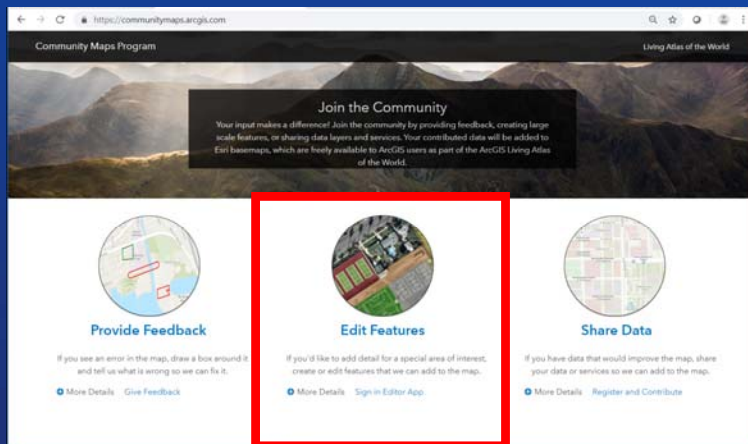
- **Tips:**

- Use Contributor App if you already have the data and there are multiple changes
- Use Editor App if you don't already have the data and you want to add large scale features



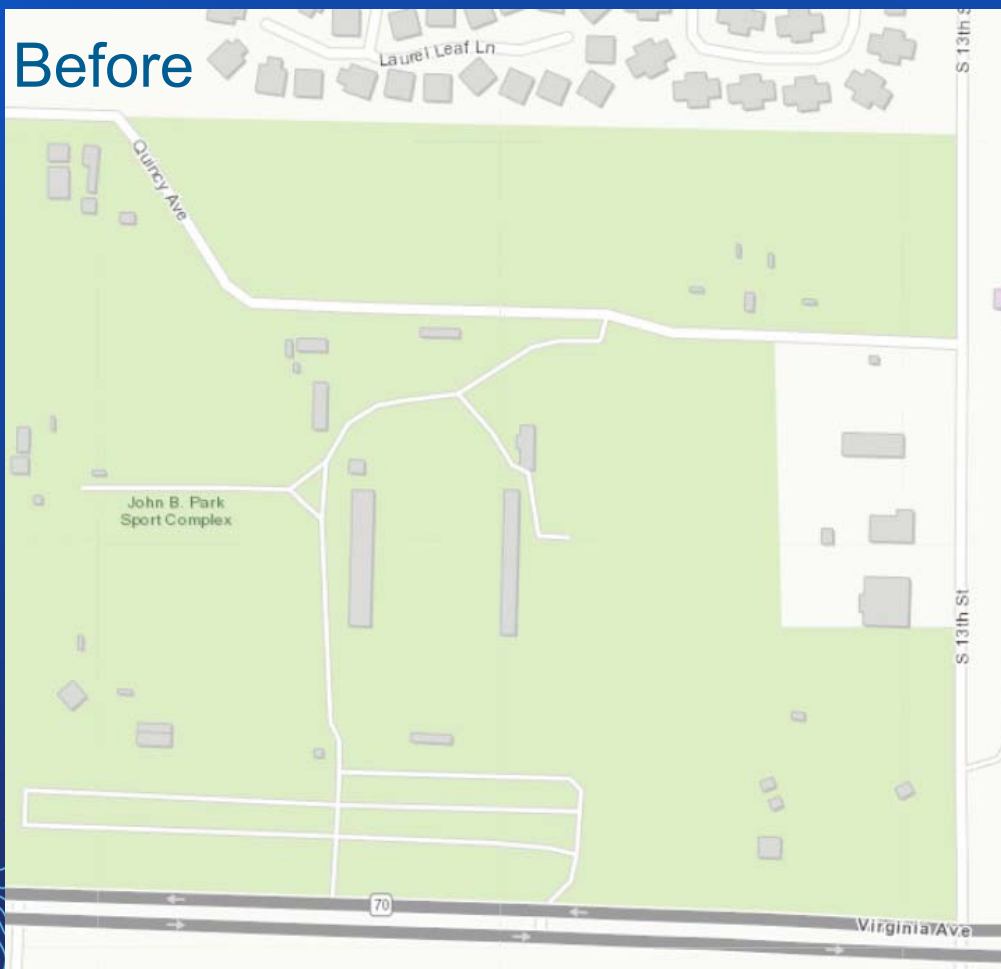
Show us what's missing: Use the **Editor App**

- If you want to add detail, create (or edit) features that we can add to the map
- Requires ArcGIS Online Organizational Account
- Web app for building basemap data

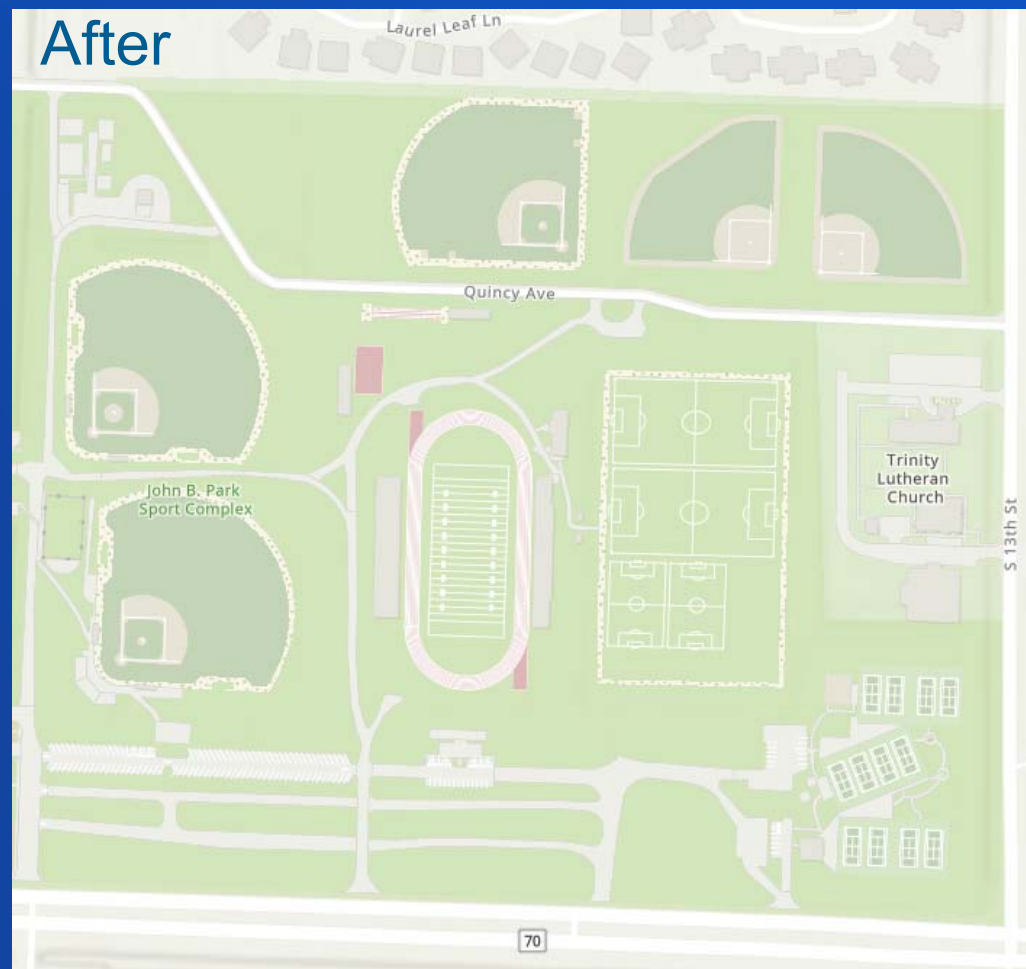


Show us what's missing: Community Maps Editor App

Before



After



Show us what's missing: Community Maps Editor App

Before

Government
College

University

After

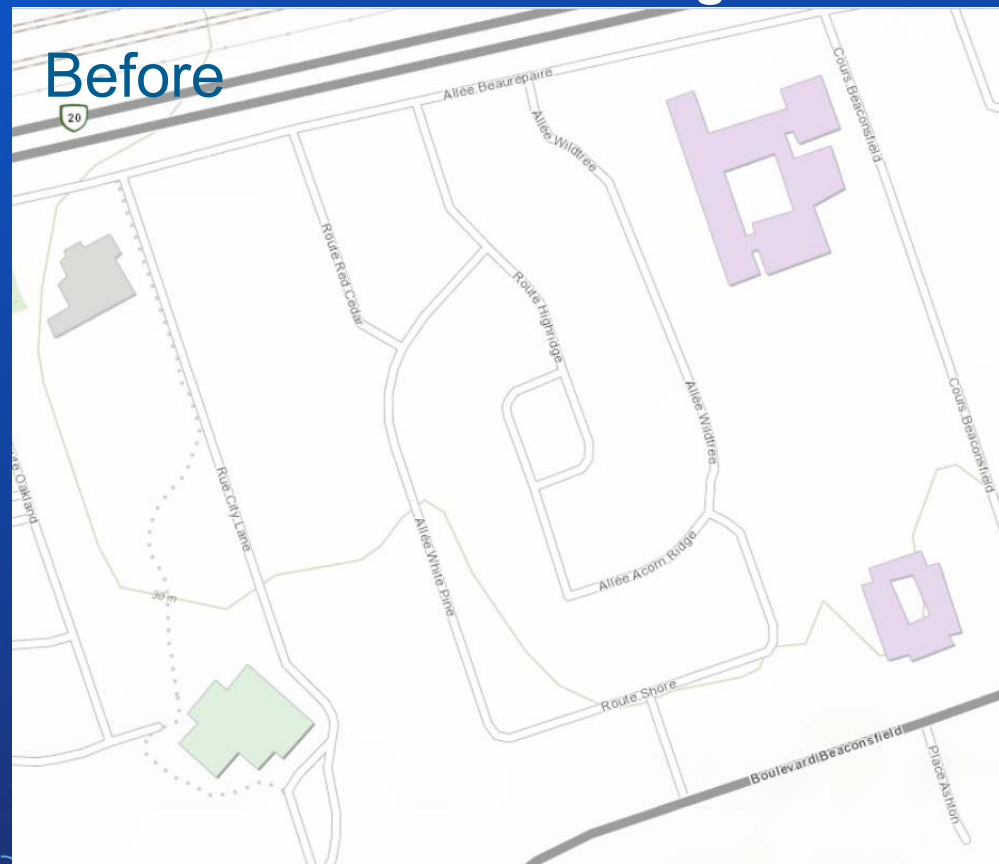
Greenfield
International
Stadium

L. N. C. P. E. Mahavidyalaya Road

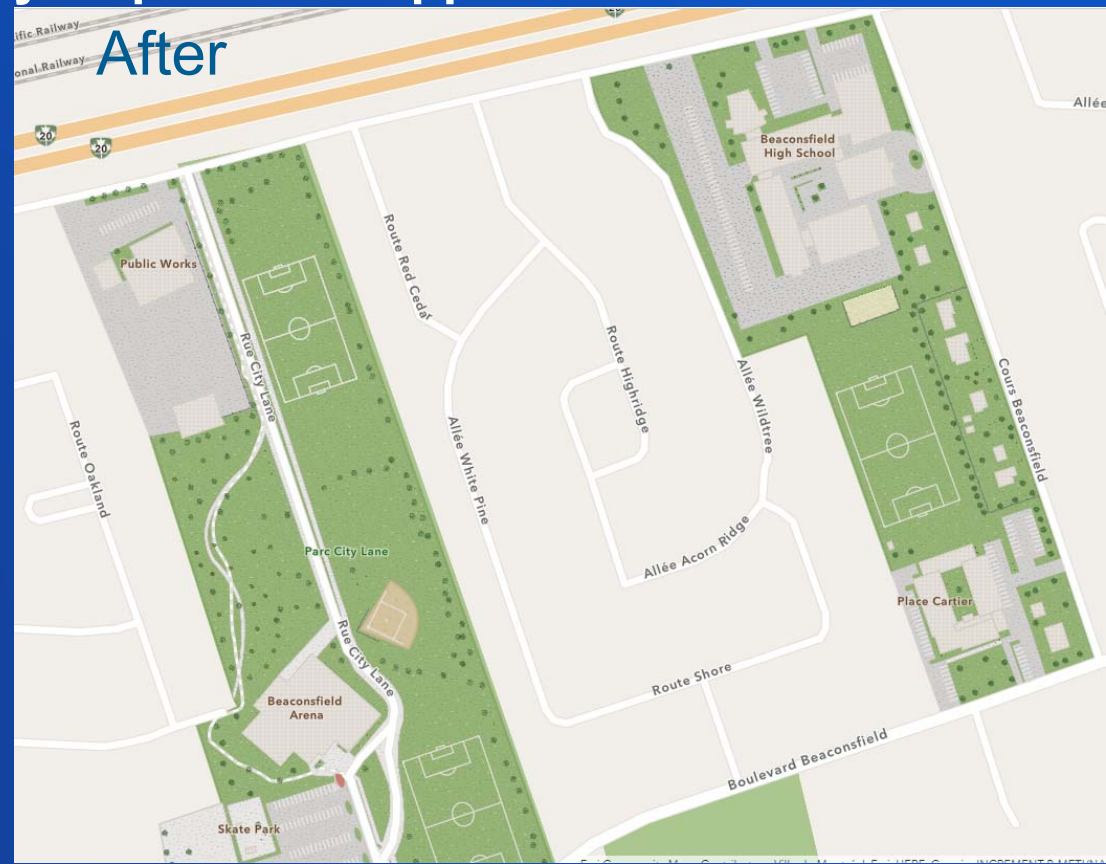
University Road

Show us what's missing: Community Maps Editor App

Before



After



Show us what's missing: Community Maps Editor App

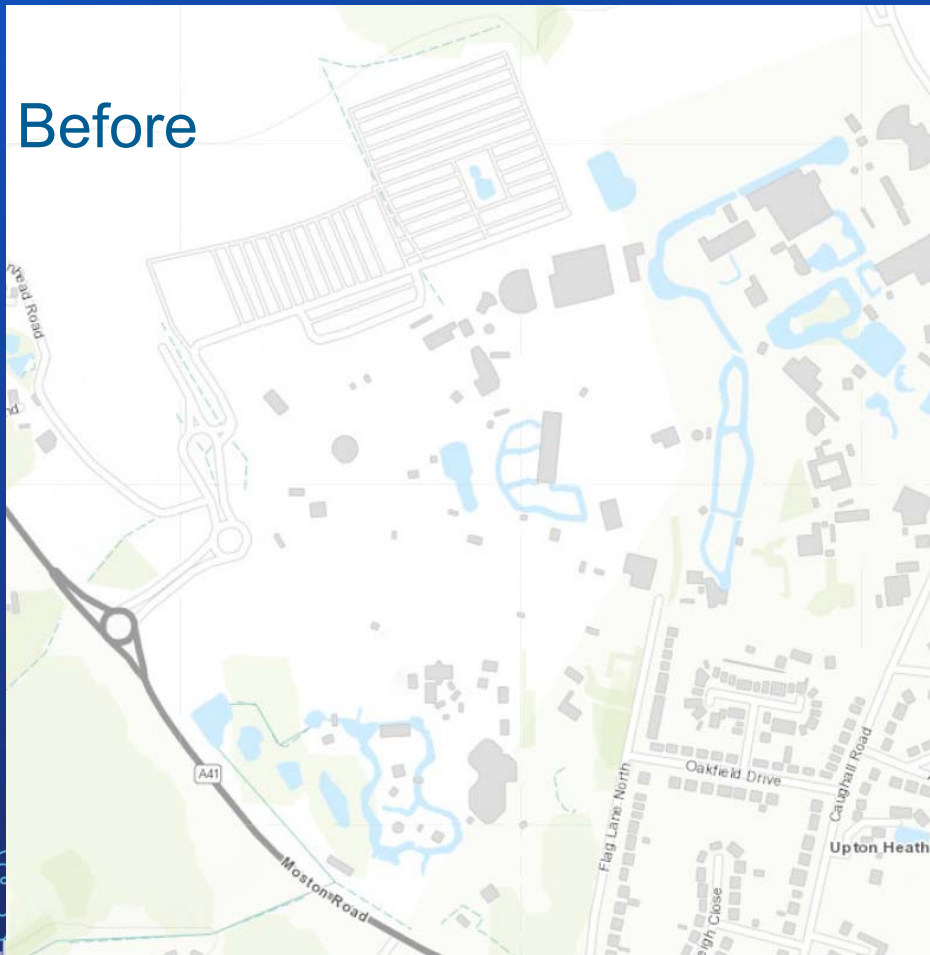
Before



After



Show us what's missing: Community Maps Editor App

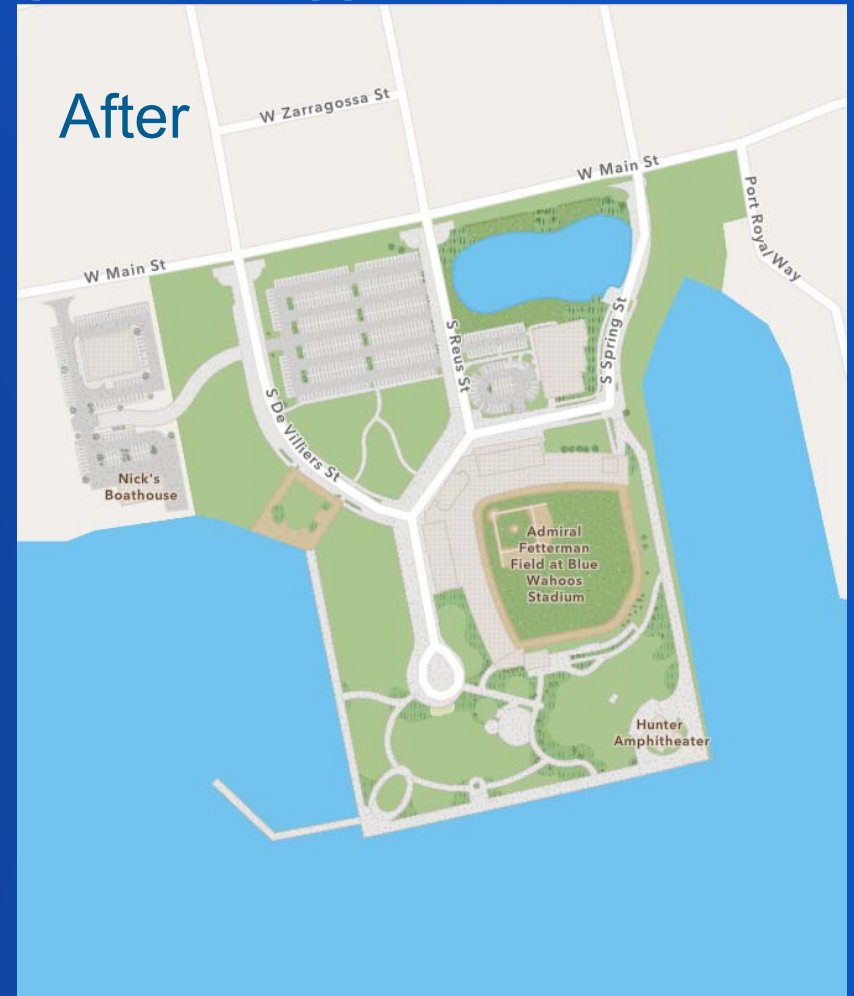


Show us what's missing: Community Maps Editor App

Before



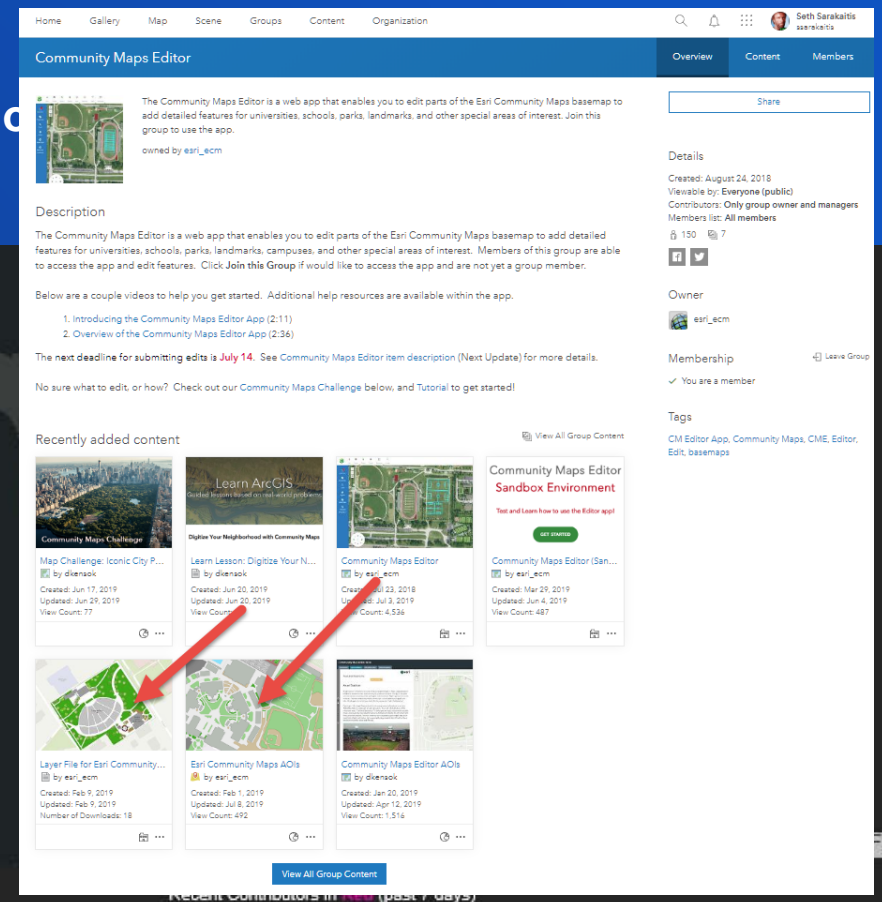
After



Audience Participation

- The Editor app can be accessed by anyone and
- Can the Editor app data be downloaded? Y/N

Yes



The screenshot shows the Esri Community Maps Editor group page. The page includes a navigation bar with links to Home, Gallery, Map, Scene, Groups, Content, and Organization. The main content area is titled "Community Maps Editor" and features a description of the app, a list of recent content, and a sidebar with details, owner information, and tags. Two red arrows point to the "Community Maps Editor" and "Community Maps Editor AOs" items in the "Recently added content" section.

Home Gallery Map Scene Groups Content Organization

Community Maps Editor

Overview Content Members

Share

Details

Created: August 24, 2018
Viewable by: Everyone (public)
Contributors: Only group owner and managers
Members list: All members
150 7

Owner

esri_ecm

Membership

✓ You are a member

Tags

CM Editor App, Community Maps, CME, Editor, Edit, basemaps

Recently added content

View All Group Content

Community Maps Challenge

Learn ArcGIS

Community Maps Editor

Community Maps Editor Sandbox Environment

Map Challenge: Iconic City P...

Learn Lesson: Digitize Your N...

Community Maps Editor

Community Maps Editor AOs

Community Maps Editor AOs

Layer File for Esri Community...

Esri Community Maps AOs

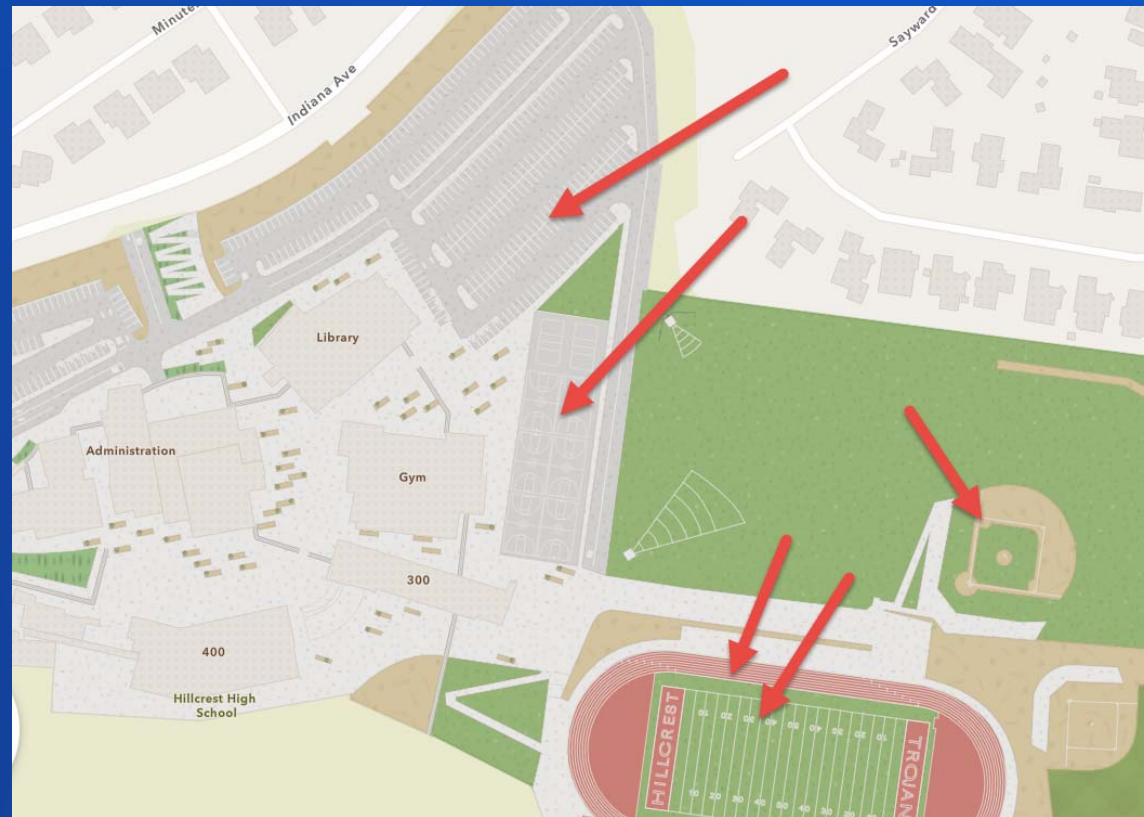
Community Maps Editor AOs

View All Group Content

Recent Contributors in **esri_ecm** (past 7 days)

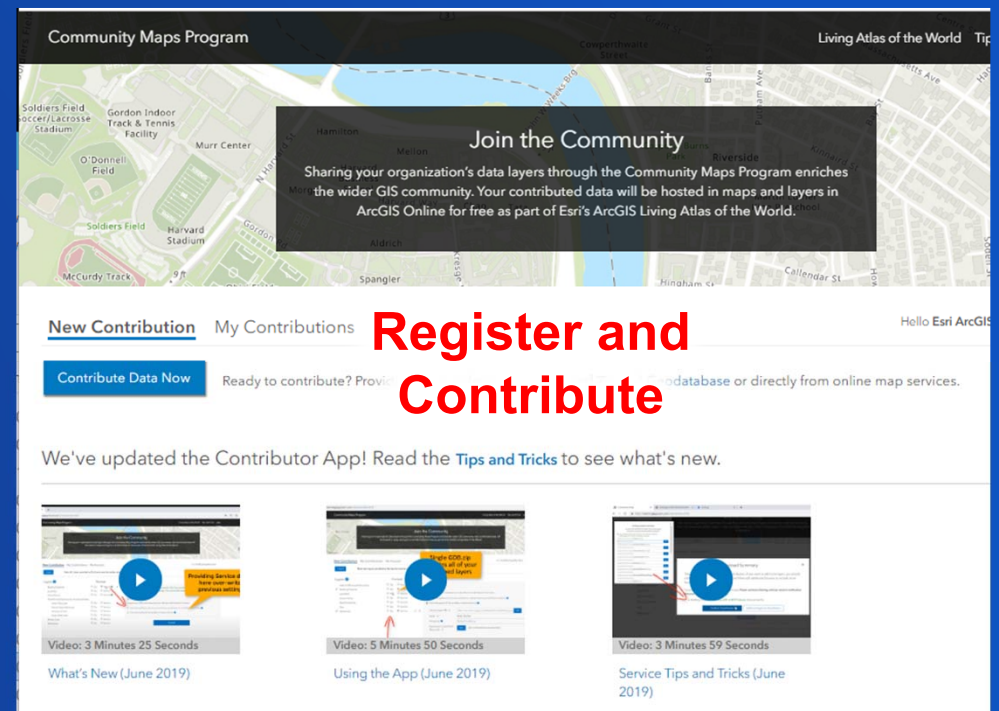
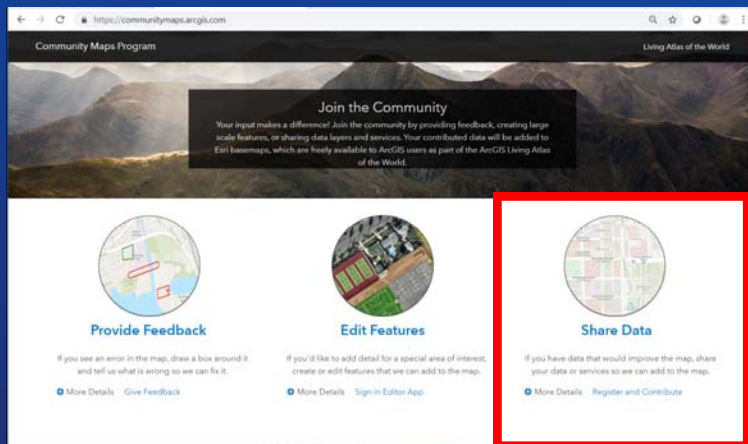
Community Maps Editor App **Best Practices**

- **Best Practices:**
 - Look at what is in the basemap first
 - Use the Clip/Cut to create features
 - Snapping and Right Angles (Space Bar)
 - Straight and Curve Lines (M)
 - Enhance the area with Sports Field and Parking Lot Lines
 - Use Stencils
 - Learn Lesson and Path to practice (www.learn.arcgis.com)



Send us data that's missing: Use the **Contributor App**

- Share your authoritative data that would improve the map
- Requires Registration
- Share as GDB Layers or Services



Contributing Services using the Contributor App

- Service Delivery allows automatic updates!

The screenshot shows the 'New Contribution' page in the Contributor App. A map at the top displays a 'Join the Community' message. Below the map, navigation tabs include 'New Contribution', 'My Contributions', 'My Account', and 'Admin'. A note states: 'Note: ALL layers provided as Zip format must be inside a single GDB.zip'. The 'Layers' section on the left lists various data types, with 'Building Footprint' selected. The 'Format' section shows 'Zip' and 'Service' options, with 'Service' selected. The 'Building Footprint' configuration panel on the right includes a message about service settings, a 'Service' section with a 'Public-facing Feature Service' option, and fields for 'Service Name' (Naperville, IL), 'Layer' (Building_Footprints), and 'Frequency' (Every 6 months). An 'Expression' field is highlighted with a red box, containing the text 'SQL'. An 'Upload' button is at the bottom.

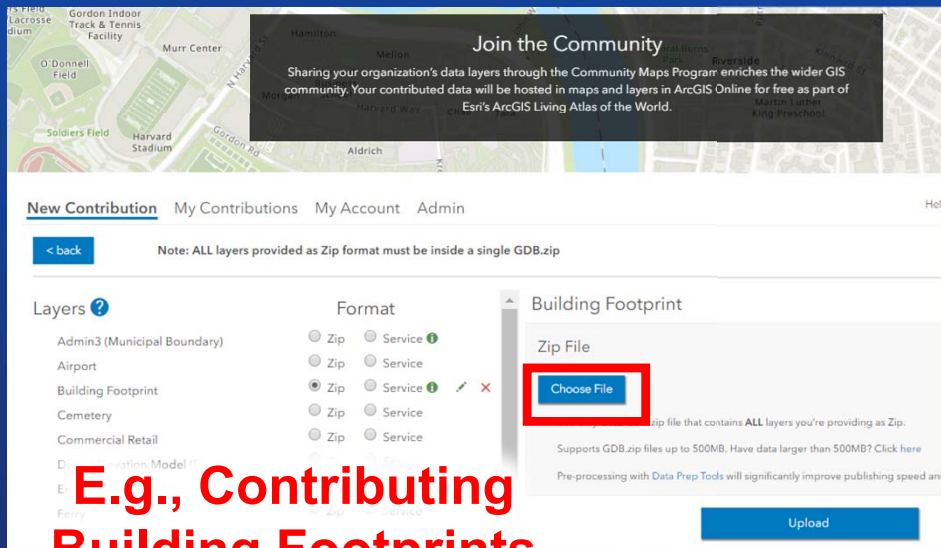
E.g., Contributing Building Footprints as a Service

Set Source, Frequency and Parameters

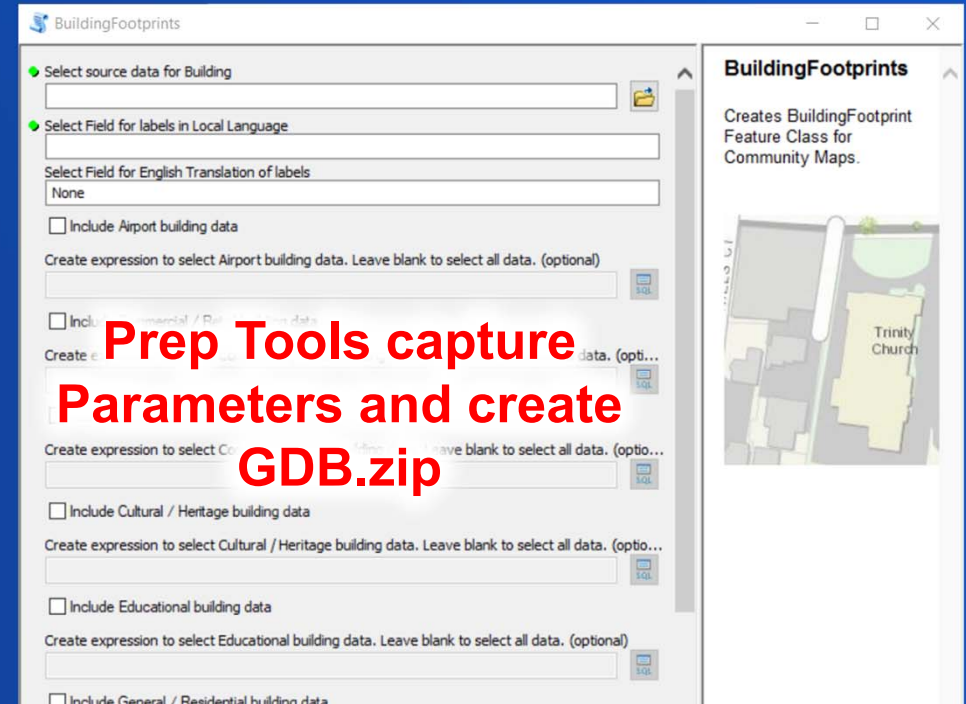
The screenshot shows the 'Building Footprint Parameters' configuration screen. It includes a title bar with a close button. The main content area has a heading 'Building Footprint Parameters' and a sub-heading 'You must select the field for the labels in your local language. Select all, or use query statement to filter your features.' Below this, there is a checkbox 'Select all features (this will put all features into 'General' category) (Defaulting to 4,297 of 4,297 total features selected)'. A list of building types is shown, each with a 'Create expression to select' label and a 'SQL' button. The building types are: Airport Buildings, Commercial/Retail Buildings, Community Center Buildings, Cultural/Heritage Buildings, Education Buildings, General/Residential Buildings, Government/Military Buildings Buildings, Hotel Buildings, and Industrial Buildings. The 'SQL' button for 'General/Residential Buildings' is highlighted with a red box.

Contributing GDB Layers using the Contributor App

- Data Prep Tools speed up the process and reduce errors!



E.g., Contributing Building Footprints as a GDB.Zip



Audience Participation

- How often do people typically Contribute data? **Average once per year**
- What are the Data Prep Tools for?
 - ☐ What are the prep tools?
 - ☒ Pre-processes your GDB layers for faster integration and fewer errors
- How can I easily re-send (schedule) data updates?
 - ☒ With a Service Subscription! (and no Prep Tools with Service Delivery)
- I'm a Contributor; when would I use the Feedback App?
 - If you have a few minor changes, make local database edits then provide through Feedback (And be sure to Identify yourself as a Contributor)!
- I'm a Contributor; when would I use the Editor App?
 - If you're missing detail, and you don't already have a layer
 - (Or update your local database and provide the new features using Contributor App)

Contributor App **Best Practices**

- **DO's**

- **Contribute as Services** for features that change more often
 - E.g., Building Footprints, parcels, roads
- **Run the Data Prep Tools** if you are providing as GDB.zip!
- **Carefully manage your Subscriptions** (speeds up your contribution)

- **DON'Ts**

- **Contribute data that has no changes** (slows down your Contribution)



Audience Participation: Bonus Round

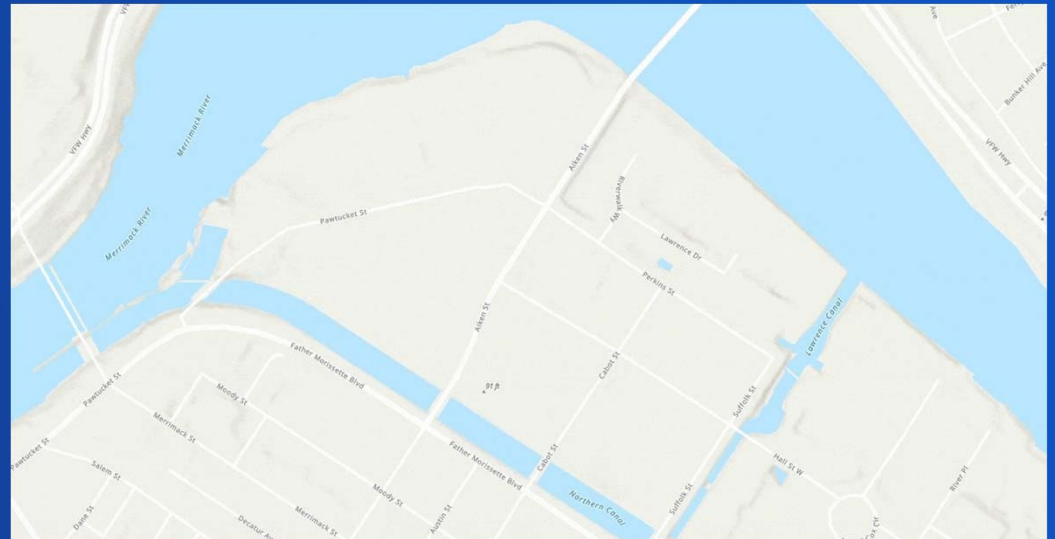
- What's the difference between Vector and Raster basemaps?
 - ✓ ☐ Vector: delivered as vector tiles (PBF format) that are rendered client-side
 - ✓ ☐ Uses a style file
 - ✓ ☐ Access through [Vector Basemaps group](#)
 - ✓ ☐ Vector Basemaps are updated first and more often!
- What is the Style Editor?
 - ✓ ☐ Way to customize the Esri vector basemaps
 - ✓ ☐ Edit the style for one of the existing tile layers (e.g. Light Gray Canvas) and then publish the updated style as a new tile layer.
 - ✓ ☐ Google: “How to Customize Esri Vector Basemaps”

Key takeaways: Recap

1. Use the Community Maps Program to **improve the Basemap**

2. Participate in three ways:

- **Tell us** what's missing (Feedback)
- **Show us** what's missing (Edit)
- **Send us** what's missing (Share)



3. Remember <https://CommunityMaps.arcgis.com>



Questions?

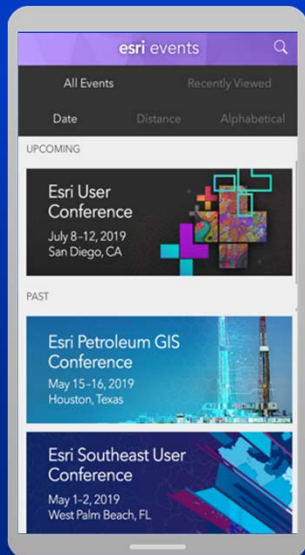
communitymaps@esri.com



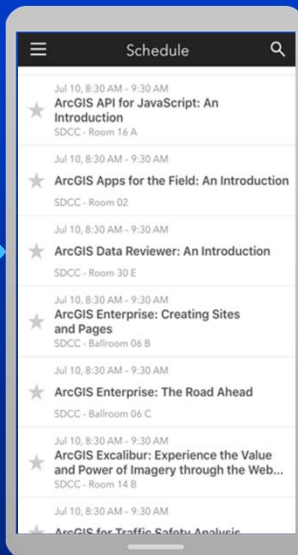
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Please Share Your Feedback in the App

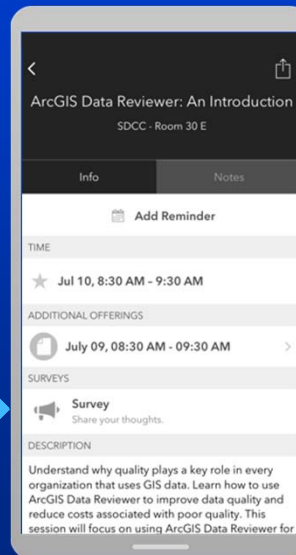
Download the Esri Events app and find your event



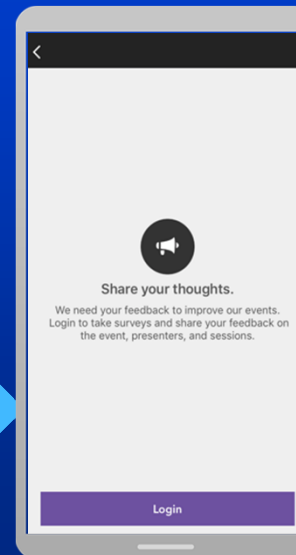
Select the session you attended



Scroll down to "Survey"



Log in to access the survey



Complete the survey and select "Submit"

