Sharing Your Work with the Living Atlas of the World

Seth Sarakaitis – Esri
ssarakaitis@esri.com
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…

... 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
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

Share Maps, Apps, and Layers

Showcase your work
Reach a broad audience
Make your items more discoverable
Help build the GIS of the world

Why?

Content for the Planet
The Living Atlas of the World is the foremost collection of global geographic information from Esri and its partners, including maps, apps, and data layers used to support critical decision making. Learn More or read the FAQ.
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?
- Basemap Imagery
- Multispectral
- Temporal
- Event

- Imagery
- Basemaps
- Historical Maps
- Demographics & Lifestyle
- Landscape
- Oceans
- Earth Observations
- Urban Systems
- Transportation
- Boundaries & Places
- Story Maps

- Income
- Spending
- Population
- Business & Jobs
- Poverty & At Risk

- Agriculture
- Climate & Weather
- Ecology
- Species Biology
- Disturbance
- Elevation
- Land Cover
- Natural Hazards
- Soils
- Subsurface
- Water

- 3D Cities
- Movement
- Parcels
- People
- Planning
- Public
- Work

- Accessibility
- Infrastructure
- Logistics
- Traffic
- Transit
Share Maps, Apps, and Layers

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
Community Maps Program

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

Share data to Esri’s Foundation Layers
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

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

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

“\(\text{I found a street that should be extended to meet another street. These two streets are now connected in my city.}\)"

“\(\text{Several Rivers in my County are not named correctly in the Topographic map.}\)"

“\(\text{We have water polygons for our County that are more detailed and have more names than the current basemap.}\)"

“\(\text{I have a complete set of building footprint polygons for my campus and you (Esri) have none in the map right now.}\)"

Report Feedback

Contribute 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

Workflow for contributing to the basemaps

Apply → Prepare Data → Upload → Review → Publish
Share data with Community Maps

How?

Data Prep Tools

Data sources → Data Prep Tools → Output geodatabase

CommunityGDB_Final.gdb
Ways to get data to Esri:
- Zipped file geodatabase
- ArcGIS Open Data services
- Hosted Feature Service

Upload

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

Community Maps Contributor App

Communitymaps.arcgis.com
Campus Basemap Initiative

Iowa State University

Arizona State University
West Campus

Banning High School

University of California Riverside

St. Louis Zoo
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”