Getting to Know Esri Community Maps

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ArcGIS Online Content

- ArcGIS includes a Rich Set of Ready-to-Use Geographic Content Available to All Users
  - Maps, Data, and Tasks designed for ArcGIS

Content Powers the ArcGIS System
Content is Built-In to the ArcGIS Platform
Simple to Discover and Use in all of your ArcGIS Applications

Access through your Web, Mobile, and Desktop Apps
Content is Published by Esri, Users, and Partners
Built by and for ArcGIS User Community
ArcGIS includes a living atlas of the world
Maps and Layers from Esri and Thousands of Contributors

Growing Collection of Maps and Layers

...Providing a Foundation for Your Work
Ready-to-Use Maps
Esri Community Maps

• Building a living atlas of the world with your authoritative data
• Map data contributions support multiple online maps
Purpose of Community Maps Program

*Esri initiative to enhance our content with user contributed data*

- Provide Useful and Reliable Maps and Services
  - Hosted by Esri and freely available to users

- Built with Best Available Data from GIS Community
  - Global, national and local agencies and suppliers

- Provide High Quality Cartography
  - Beautiful maps designed for many use cases
Esri Content Portfolio

Content is organized into set of themes, using Esri & Community Data

- Imagery
- Basemaps
- Network Analysis
- Demographics and Lifestyle
- Geocoding
- Landscape Analysis

Esri Community Map Data
Community Maps Benefits

• Your basemap content hosted for free with ArcGIS Online
• Leverage your online content to build applications
• Easy to participate
How it Works

• Esri combines commercial, public, and **local authoritative** content into seamless global maps
Option A: Vector data contribution

• Put your basemap layers in a file geodatabase
  - Use the Local Government Information Model
• Esri does the rest
Option B: Raster cache contribution

• Author a map using map template
  - Available from Community Maps Resource Center
• Cache the map and provide tiles to Esri
• Esri blends the cache into the basemap
Available Community Maps

- Maps built by and for the ArcGIS Community
- More maps in the future …
Community Maps Tour

Search “UC2013 ECM” on ArcGIS.com for this Map Tour
ArcGIS Content Usage Is Growing Rapidly
Usage is being driven by high quality content from the community

Streets: High Usage in Japan & Thailand

Topo: High Usage in Netherlands & UK

Basemap Usage Doubling Each Year

2012

14 Billion+ Requests
Esri Community Maps 2.0

- Enhancements launched last year to:
  - Make it easier for users to participate
  - Offer more contribution options (e.g. single layers)
  - Improve the quality and update frequency of maps
  - Expand ways that contributed data can be used
    - More maps
    - Vector delivery of maps
    - Additional levels of detail in maps
    - Other types of services (e.g. search)
Esri Community Maps 2.0

communitymaps.arcgis.com

- New web application enables contributors to:
  - Apply to the program
  - Submit and upload data
  - Manage contributions
  - View Quality Control results
  - Review map prior to publication
  - Review map feedback from users
Esri Community Maps: High-Level Architecture

GDB Built on Local Government Information Model
How to Participate in Community Maps
Help Us Make Community Maps better with Your Data

• Goal is to Blend Your Local, Authoritative Data into the Appropriate Community Map  
  - Improve the basemap with better data

• Identify Community Map(s) you can Support  
  - World Imagery, World Topo Map, Ocean Basemap, World Street Map, World Elevation, etc.

• Get Started by using our online Contributor App  
  - Register at communitymaps.arcgis.com
Imagery – What is Needed?

• Natural Color Imagery that is More Recent and/or Higher Resolution than what is currently available
  - 1m or better imagery where only 15m is now available
  - More recent imagery than what is currently available
  - Get latest info for World Imagery map on ArcGIS.com

http://www.arcgis.com/features/maps/imagery.html
## Basemaps – What is Needed?

<table>
<thead>
<tr>
<th>Basemap Layers</th>
<th>Campus / Other Layers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admin Boundaries (e.g. state, county, city)</td>
<td>Buildings</td>
</tr>
<tr>
<td>Parcels</td>
<td>Landscape Areas</td>
</tr>
<tr>
<td>Building Footprints</td>
<td>Pavement Marking Points</td>
</tr>
<tr>
<td>Roads</td>
<td>Pavement Marking Lines</td>
</tr>
<tr>
<td>Railroads</td>
<td>Site Amenity Lines</td>
</tr>
<tr>
<td>Water Bodies (lakes, ponds)</td>
<td>Street Pavements</td>
</tr>
<tr>
<td>Water Lines (rivers, streams)</td>
<td>Trails</td>
</tr>
<tr>
<td>Facility Site (landmark areas)</td>
<td>Trees</td>
</tr>
<tr>
<td>Facility Point (points of interest)</td>
<td>Elevation (DEM)</td>
</tr>
</tbody>
</table>
Getting Started with Community Maps

Apply → Upload → Review → Contribute

communitymaps.arcgis.com
Applying to Esri Community Maps

- What is your organization?
- What is your geographic coverage area?
- What map layers can you contribute?

- Parking lots
- Walkways
- Pavement lines
- Buildings
- Landscape and hardscape features

- You only contribute the layers you want
Uploading map data to Community Maps

• Put your basemap layers in a file geodatabase
  - Use the Local Government Information Model
• Upload your data through the Contributor App
Local Government Information Model
Uniform model to support all local government business functions

- Emergency Management
- Basemaps
- Facilities Management
- Land Records
Reviewing Your Contribution

Apply → Upload → Review → Contribute

Data Review → Map Review
Published output

- Current output is World Topographic Map
- More coming soon
Community Maps Contributor App
communitymaps.arcgis.com
Brian Sims
Community Maps Resource Center
Visit us at resources.arcgis.com

- Online Help
- Tools & Templates
- Tutorials
- Video demonstrations
Online Community Maps Workshops

• The best way to get started with authoring your map!
• ArcGIS Online Community Maps Workshop (one day)
• Building a Campus Basemap (one day)

training.esri.com
Frequently Asked Questions

- Can provider build web apps using online map?
  - Yes, the map and developer APIs is freely available to contributor and users.

- Is ESRI generating revenue from use of our data?
  - No, map is freely available to ArcGIS users.

- Will the map be updated to maintain its currency?
  - Yes, contributor can update the data when it chooses.
  - Esri encourages contributors to update at least annually.
Frequently Asked Questions (continued)

• Who owns the data that is contributed through the community maps program?
  - The data provider retains all ownership of data. ESRI requests permission to publish maps and value added services with the data.

• Will the map service be reliable?
  - Yes, maps are hosted in commercial data centers with 24/7 support and 99.9% availability.
Get Started at the UC
Opportunities to learn more and start this week

- Community Maps Tech Workshops
  - *Getting Started with Community Maps*
- Hands On Learning Lab
  - *Sharing Data With the Community Maps Program*
- Demo theaters presentations
  - Check the agenda
- Visit us at UC Showcases
  - **Online** Island (Community Map station)
  - Register with us this week!
Thanks for attending!

• Please fill out the comment cards

• Session Title: Getting to Know Community Maps
• Session Number: 557
• Offering ID Tuesday: 1265
• Offering ID Wednesday: 1376