Getting Started with Community Maps

Shane Matthews and Tamara Yoder
Topics for this Session

• ArcGIS is a complete system
• Overview of basemaps
• Community Maps tour
• Goals of the Community Maps Program
• How to get involved
• Workflow of the program
• Online content submission system
• Benefits of participation
• User story maps and apps
ArcGIS is a Complete System
Managing and working with geographic information

- Online (public or private cloud)
- Server (on premises or private cloud)
- Desktop
- Mobile/devices
- Content

Many deployment options
Content Powers the ArcGIS System

- ArcGIS includes a Rich Set of Ready-to-Use Global Geographic Content, which is Available to Users of the System
  - Basemaps & Imagery
  - Geocoding & Routing
  - Location Analytics
  - Analysis & Reporting
Content Published by Esri and Users
Built by and for ArcGIS User Community
Ready to use Global Content in the ArcGIS System

- Primary Themes for Global Content Development in 2012

- Business
- Basemaps
- Elevation
- Imagery
- Natural Resources
- Transportation Geo-Location

Esri and Community Map Data

- Map Services
- Image Services
- Task Services
- GeoProcessing Services
- Popup Services
Community Maps Program

- **Esri-led initiative to supply content from the ArcGIS community to enhance the basemaps**
  - Provide useful and reliable basemaps
  - Built with **authoritative data** from GIS community
  - Provide high quality cartography
What is a basemap?
Basemaps

World Topographic Map

• Flagship Community Map
  - Most authoritative contributors

• A basemap that shows:
  - Multiple scales
  - Shape of the land
  - Elevation of the land
  - Physical and cultural features
More Basemaps

Ocean Basemap

• Adds greater detail at large scales to the oceans
• Reference map
• Coastal areas have altimetric and bathymetric information
• Contributed content
More Basemaps

World Street Map

- Highway level road data
- Australia and New Zealand, parts of South America, most of Europe, parts of Southern Africa, parts of Asia, Japan, most of Canada, and the United States all have street level data
- Accept high-quality road data contributions where the map is lacking
More Basemaps

World Imagery Map

- Imagery for the whole world
- High resolution imagery for the United States and other areas, low resolution for the world
- Accepting high-quality imagery contributions
More Basemaps

National Geographic Map

- Utilized for educational and informational purposes
- Used as a reference map
- Uses the National Geographic cartographic style
- Contributed data will be published in this map in the near future
More Basemaps

Light Gray Canvas Map

- Utilized as a reference map
- Meant for use with operational layers
- Contributed data will also be published in this map in the near future
Community Maps Tour
Tamara Yoder
Community Maps Program
ArcGIS Online Community Maps worldwide participation
How do I get involved?
Community Maps Workflow

Utilize the online content management system

Apply  Upload  Review  Contribute
Community Maps Workflow

Apply

Apply to become a Data Steward
- Provide a signed participation agreement
- Provide agency information
- Select geographic area
- Select data to provide
Community Maps participation agreement

• Form G-181
• Provides Esri the permission to publish your content
  - You retain ownership of your data
• Must be signed before you can contribute
• Refer to FAQ document with questions
• Best to start early
Community Maps Workflow

Upload via web or request a drive
(1gb upload limit)
- Send zipped FGDB
- In Local Government Information Model
- In local projection
Local Government Information Model

ArcGIS for Local Government is based on a harmonized information model of GIS datasets, web services, and maps that bring your operations to life for your staff and citizens.
Community Maps Subset

Feature datasets used for Community Maps
Requested Community Maps layers

- Contribute the layers you have or wish to create
- Most members contribute a subset of the available layers

<table>
<thead>
<tr>
<th>Data Layer Common Names</th>
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<tbody>
<tr>
<td><strong>Polygon</strong></td>
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<tr>
<td>Administrative Boundaries</td>
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<tr>
<td>Parcels</td>
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<td>Water Bodies</td>
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<td>Land Use</td>
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<td>Landforms</td>
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<td><strong>Line</strong></td>
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<tr>
<td><strong>Point</strong></td>
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<td>Points of Interest</td>
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Community Maps Workflow

We’ll review your data
We’ll let you know if we find anything
You review the map
Review

- Data review
Review

- Map review
Community Maps Workflow

Contribute your data
When you’re ready
Esri will make the map cache
Esri will host the map cache
Community Maps Workflow

- Apply
- Upload
- Review
- Contribute
- Update

Repeat as necessary
Keep your map current
Update as your data change
Ways to Contribute

• Three choices
  - Submit data in Local Government Information Model Schema through online management system
    - Easiest and preferred method
  - Submit finished World Topographic Map template and geodatabase
    - Map package
  - Cache finished map template and submit cache tiles
contribution management system
Tamara Yoder
Benefits of Participation

• Detailed Basemap for Your Community is Online
  - High-quality cartography with your accurate data
  - High-performance and availability service
  - No hosting costs or support required from provider

• Basemap is freely available to ArcGIS and Web users
  - Use in your ArcGIS maps and apps
  - Use in your public facing Web apps

• Developer APIs freely available to build Web Apps
  - JavaScript, Flex, Silverlight APIs available
  - Combine your map services with community basemap
Community Maps at the UC

Opportunities to learn more and start this week

- **Community Maps Tech Workshops**
  - What’s New in the Community Maps Program?
  - Community Maps Information Model, An Introduction
  - Get your campus on the map! The Community Maps Program for School Campuses
  - Creating Basemaps to Manage Buildings and Facilities

- **Demo Theater**
  - Contributing Community Maps Content Online
  - Migrating data for Community Maps with Custom ETL tools
  - Using Data Reviewer to validate the quality of your Community Maps content
  - Using Community Maps in Simple Web Applications
Community Maps at the UC

Opportunities to learn more and start this week

• Visit us at Content Island in Showcase
  - Talk with the Community Maps Team at the Island
  - Sign up to get started using Online Participation Form

• Check out the Learning Center Lab
  - Sign up and take an hour course that gives a more in-depth description of Community Maps
Additional Resources

- **Workshops**
  - Free
  - [training.esri.com](http://training.esri.com) to learn more

- **ArcGIS Resource Center**

- **E-mail**
  - [communitymaps@esri.com](mailto:communitymaps@esri.com)
Thanks for attending!

Please remember to fill out your evaluation
www.esri.com/ucsessionssurveys
Offering ID: 629

and follow us on Twitter: @AGOL_CM_Program!