What’s New in the Community Maps Program

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Topics for the Session

- Community Maps Place with ArcGIS Online
- New World Topographic Map Design
- Dynamic Attribution
- Issue Reporting
- New Participation Model
- How to get involved
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

- Visualize
- Create
- Collaborate
- Discover
- Manage
- Analyze

Cloud
Enterprise
Web
Mobile
Desktop
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

Online Content

Esri

Users

Data Contributions
Ready to use Global Content in the ArcGIS System

• Primary Themes for Global Content Development in 2012

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

- Map Services
- Image Services
- Task Services
- GeoProcessing Services
- Popup Services

Community Map Data
Community Maps Products

World Topographic Map
- Local, regional, national contributions

World Street Map
- National-level contributions

World Imagery Map
- Local, regional, national contributions

Oceans Basemap - New!
- National and scientific communities
Raise your hand if you:

- Published in the World Topographic Map
- Working on getting published in World Topographic Map
- Published or working on getting published in another Community Map? (Street, Imagery, Oceans)
- Attended the previous session – Getting Started with the Community Maps Program
Purpose of Community Maps Program

*Esri-led initiative to enhance online maps with community-provided data*

- **Support Building Useful and Reliable Basemaps**
  - Designed to support a variety of maps and apps

- **Assemble Authoritative Data from GIS Community**
  - Data from local authorities and leading providers

- **Provide High Quality Cartography**
  - Beautiful maps built with best available sources
Benefits of Community Maps Program

- Detailed Basemap for **Your Community** Online
  - High-quality cartography with your accurate data
  - High-performance and availability service

- Basemaps are **freely available** to ArcGIS and Web users
  - No hosting costs or support required from participant
  - Use in your ArcGIS maps and apps
  - Use in your public facing web and mobile apps

- Developer APIs freely available to build Web Apps
  - REST, JavaScript, Flex, Silverlight, Mobile APIs available
  - Combine your map services with community basemap
Growth of Community Maps Program

50% increase in participation from UC 2011

New Map Product – Oceans Basemap
  Next Canvas and National Geographic maps

Increased Participation Trends
  National Mapping Agencies
  Council of Governments
  Campuses
  Scientific Organizations

Demo Theater | Contributing to the Oceans Basemap
Tuesday 11:30 – 12:00 + Wednesday 12:00 – 12:30 Exhibit Hall C
Current Participation Model

Community Maps Classic Participation Model

Esri seeded the map
Best available commercial content
ArcGIS user community invited to enhance map with their content
Users created complete basemaps of their communities
Esri hosted the basemaps for use by all
Current Participation Model

Compile → Review → Author → Cache

Gather or create all required data
Review data quality and completeness
Apply template, adjust data, visually review
Create map cache with ArcGIS Server

Process will remain available indefinitely
What’s New with Community Maps Program

New World Topographic Map Design
Dynamic Contributor Attribution
Issue Reporting
New Participation Model
New World Topographic Map Design

New unified world-wide design
Optimized to support operational and thematic data
Updates focus on small and medium scales
Topography relief more prominent
Transportation network less prominent
Design Objectives

- Maintain the ‘look and feel’ of a traditional topographic map
- A functional and simple design that can be implemented by our community of contributors
- Compliment Esri’s existing suite of basemaps
- Limit the number of changes as the scale increase
- Respect and maintain characteristics of the current design
- Bottom line – the design MUST look great!
New World Topo
Boston: 1:18,000
Boston: 1:72,000
Boston: 1:144,000
Dynamic Attribution

Ensuring you get credit for participation
Dynamic Attribution and Issue Reporting
Introducing Community Maps 2.0
Introducing Community Maps 2.0

New Participation Model

- In Public Beta
- Build on standard data model
- Contribute the data you have

Contributor Data

Commercial Data

Community Maps

Contribution Management Application

Basemaps

Task Services
Goals of Community Maps 2.0 Participation Model

Easier for you to participate
Easier for you to maintain
Your content in more:
  ⚫ Community basemaps
  ⚫ At more scales
  ⚫ In new task services
Deliver more useful maps and services
Community Maps 2.0 Key Topics

- Online Contribution Management
- Simplified Workflow
- Contributor Integration
- Standard Data Model
- Contribution Review Process
- Public Beta Program
Community Maps 2.0 Key Topics

- Online Contribution Management
- Simplified Workflow
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- Public Beta Program
Online Contribution Management Application

Collection of online tools to manage participation

Supports:

- Program application
- Submit your data online
- Review of your data online
- Review of your map online
Online Contribution Management Application

Community Maps
think globally | map locally

From You, for You.
Login with your ArcGIS Online Account:
Username: [blank]
Password: [blank]
Login  Need help signing in?

Your Data
Street Centerlines
Water Bodies
Parcels

Manage your contributions

[Image of screenshots showing the application interface]
Online Contribution Management Application
Online Contribution Management Application
Online Contribution Management Application
Online Contribution Management Application

Demo Theater | Contributing Community Maps Content Online
Tuesday 4:00 PM – 4:30 PM – Exhibit Hall C
Wednesday 1:00 PM – 1:30 PM – Exhibit Hall C
Community Maps 2.0 Key Topics

- Online Contribution Management
- **Simplified Workflow**
- Contributor Integration
- Standard Data Model
- Contribution Review Process
- Public Beta Program
Current Participation Model

Compile → Review → Author → Cache
Simplified Workflow

Apply to Community Maps Program

- Provide agency information
- Select geographic area
- Select data to provide
Simplified Workflow

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

Apply → Upload → Review

Esri will review your data
Esri will let you know if we find issues
Simplified Workflow

Esri will review your data
Esri will let you know if we find issues
You review the map
Simplified Workflow

Contribute your data (no authoring required)
When you’re ready
Esri will make the map cache
Esri will host the map cache
Simplified Workflow

Keep the map current
Update as your data change
Minimum annually
Community Maps 2.0 Key Topics

- Online Contribution Management
- Simplified Workflow
- **Contributor Integration**
- Standard Data Model
- Contribution Review Process
- Public Beta Program
Contributor Integration

**Contributor:**

1. To give or supply in common with others (Webster)
2. Provider of data to the Community Maps Program (Esri)

**Contributor Integration:**

- User-lead method for organizing contributors
- Organized at the layer level
- One contributor per layer per geography
- Esri manages data integration
Contributor Integration | Scenario 1

Nested Contributors

Road Centerline

Admin Bndy
Owner Parcel
Railway
Water Bdys
Water Lines
Contributor Integration | Scenario 2

Nested Contributors

Boston, Cambridge, and Harvard University Collaboration
### Contributor Integration | Scenario 3

<table>
<thead>
<tr>
<th>Contributor</th>
<th>Data Provided</th>
<th>Area Provided</th>
</tr>
</thead>
<tbody>
<tr>
<td>County GIS Department</td>
<td>Administrative Boundary</td>
<td>County-wide</td>
</tr>
<tr>
<td>County Assessor</td>
<td>Owner Parcel</td>
<td>County-wide</td>
</tr>
<tr>
<td>Regional DOT</td>
<td>Road Centerline Railway</td>
<td>4 city area</td>
</tr>
<tr>
<td>County DOT</td>
<td>Road Centerline Railway</td>
<td>Area outside Regional DOT area</td>
</tr>
<tr>
<td>Individual Cities</td>
<td>Building Footprint</td>
<td>City area</td>
</tr>
<tr>
<td></td>
<td>Landmarks</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Parks</td>
<td></td>
</tr>
</tbody>
</table>
Community Maps 2.0 Key Topics

- Online Contribution Management
- Simplified Workflow
- Contributor Integration
- **Standard Data Model**
- Contribution Review Process
- Public Beta Program
Alignment with Local Government Data Model

9 Feature Classes initially

- 7 additional for Special Area of Interest / Campus

Minimal attributes required for each

- Consider using default values at first

<table>
<thead>
<tr>
<th>Admin Boundary</th>
<th>Railroad</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building Footprint</td>
<td>Road Centerline</td>
</tr>
<tr>
<td>Landmark/POI</td>
<td>Water Body</td>
</tr>
<tr>
<td>Owner Parcel</td>
<td>Water Line</td>
</tr>
<tr>
<td>Park</td>
<td></td>
</tr>
</tbody>
</table>
Standard Data Model

Data migration tools available

- Data Interoperability tools on Resource Center
- FME Workbenches on FMEpedia site
Community Maps 2.0 Key Topics

- Online Contribution Management
- Simplified Workflow
- Contributor Integration
- Standard Data Model
- Contribution Review Process
- Public Beta Program
Data Review

- Designed to improve quality of your map
- Not a “gotcha” process

Map Review

- Web-based review of map prior to publication
- Share with your organization, other Community Maps participants, or Esri
Data Review

What are we looking for?

- Things that will impact the map product and production system
- Bad geometries (null geometries, self-intersecting polys, etc.)
- Map symbology elements missing or incorrect

Categorized results to help focus your review

- Errors, Warnings, Messages
Data Review

Resolution Process:

- Results available as Data Reviewer tables or FGDB
- Resolve issues in source data
- Upload resolved data

Special Data Reviewer pricing through end of year
See Data Reviewer team at Geodatabase Island
Contribution Review Processes

Map Review

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Community Maps 2.0 Key Topics

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Public Beta Program

Currently accepting US-based participants
Help influence program direction
Help ensure the program works for you
Apply today at CommunityMaps.arcgis.com
Road Ahead
What’s Next for Community Maps
Road Ahead

Your content in more basemaps
  - National Geographic, Canvas, and more

Your content in more community themes
  - 3D, elevation, hydrographic, bathymetric, and more
  - New Community TIGER initiative

Your content in new task services
  - Identify
  - Query
  - Search

Expanded online contribution management
How to Participate

Community Maps 2.0 Public Beta

- Apply today
- CommunityMaps.arcgis.com

Classic Participation Model

- Visit Community Maps Resource Center
- Download Tools and Templates

Attend a Community Maps Training Event
www.esri.com/ucsessionssurveys

Tuesday Session ID: 630
Wednesday Session ID: 758
Thursday Session ID: 830