Esri International User Conference
San Diego, California

Technical Workshops | July 24, 2012

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**

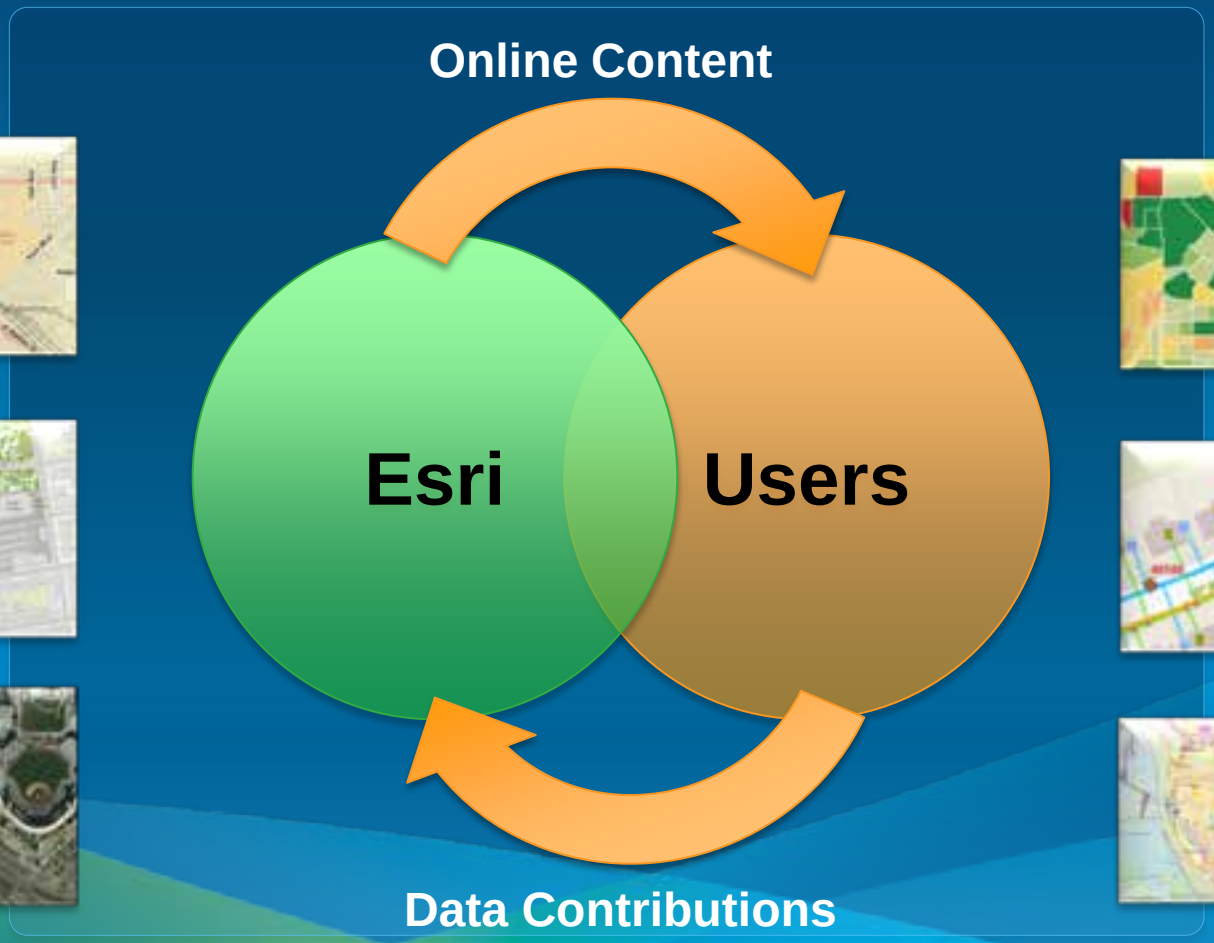
Many deployment options

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**

- 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**

World Street Map
World Topographic Map

World Imagery Map
Ocean Basemap

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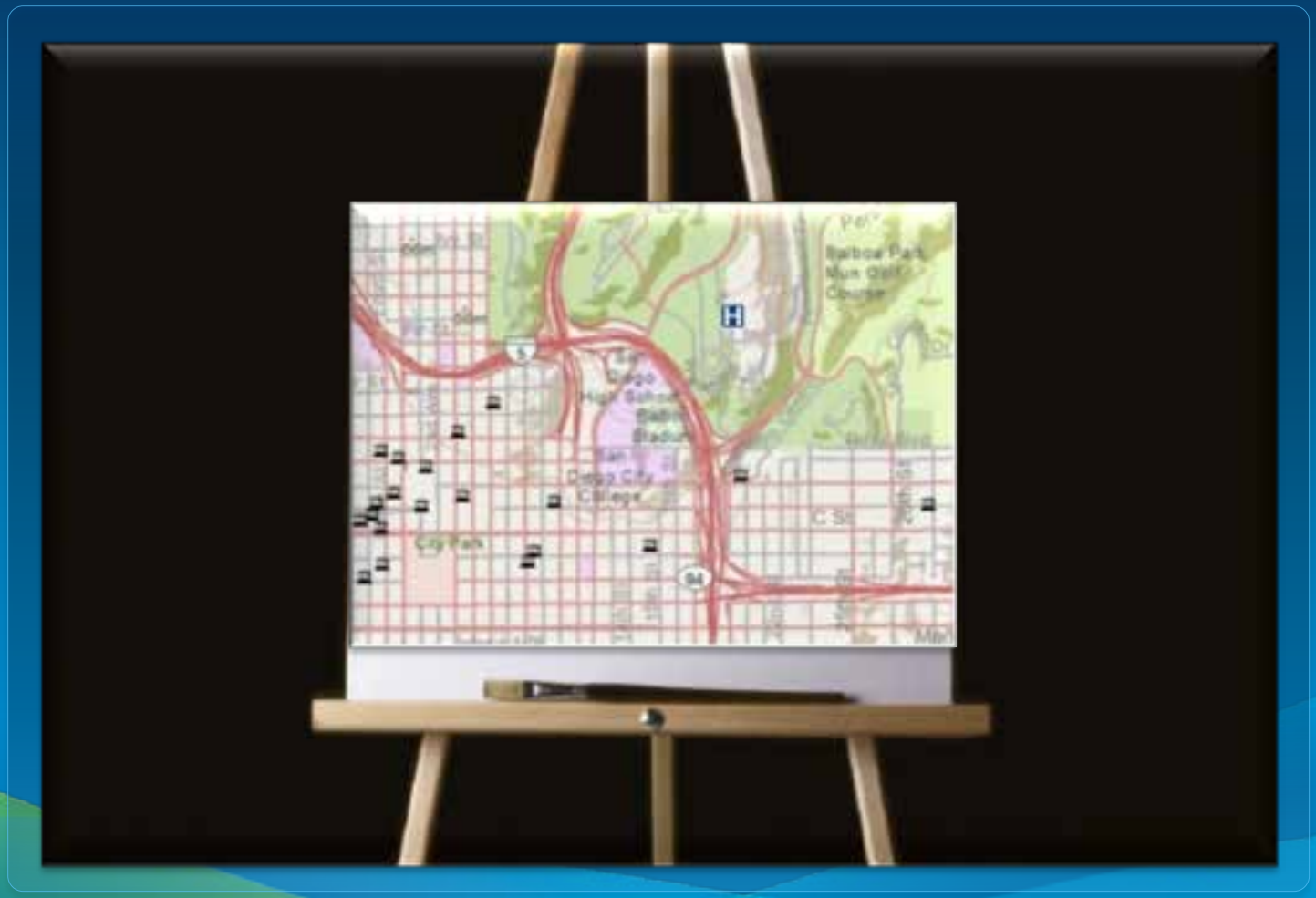
What is a basemap?



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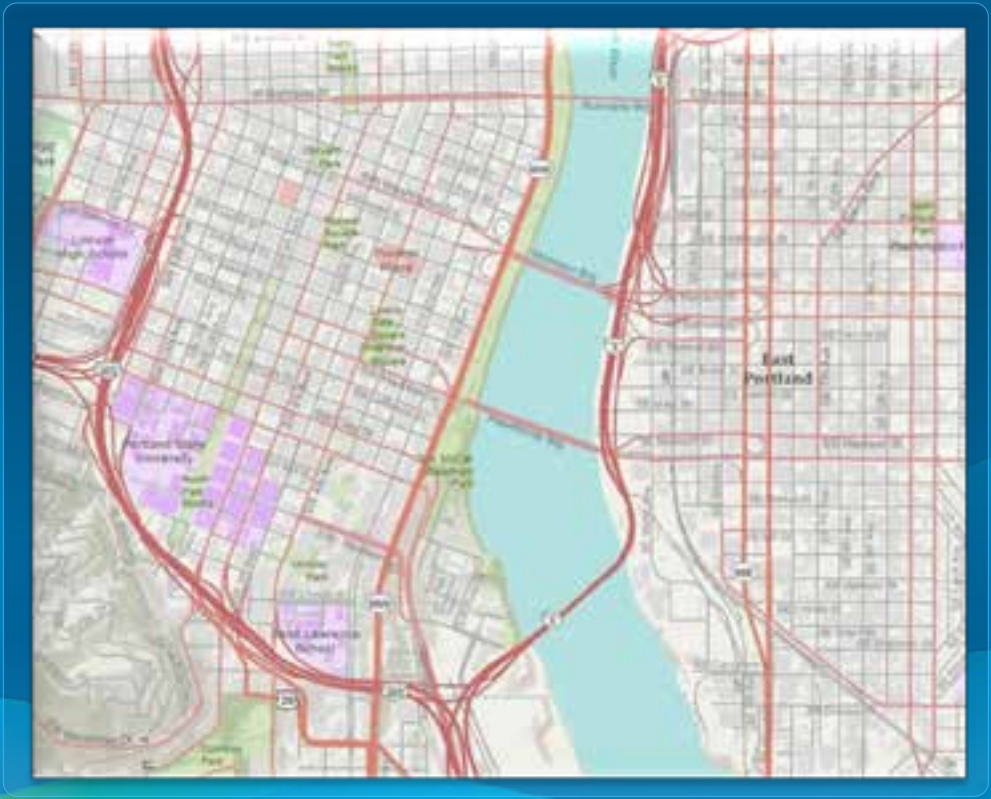
Basemaps

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

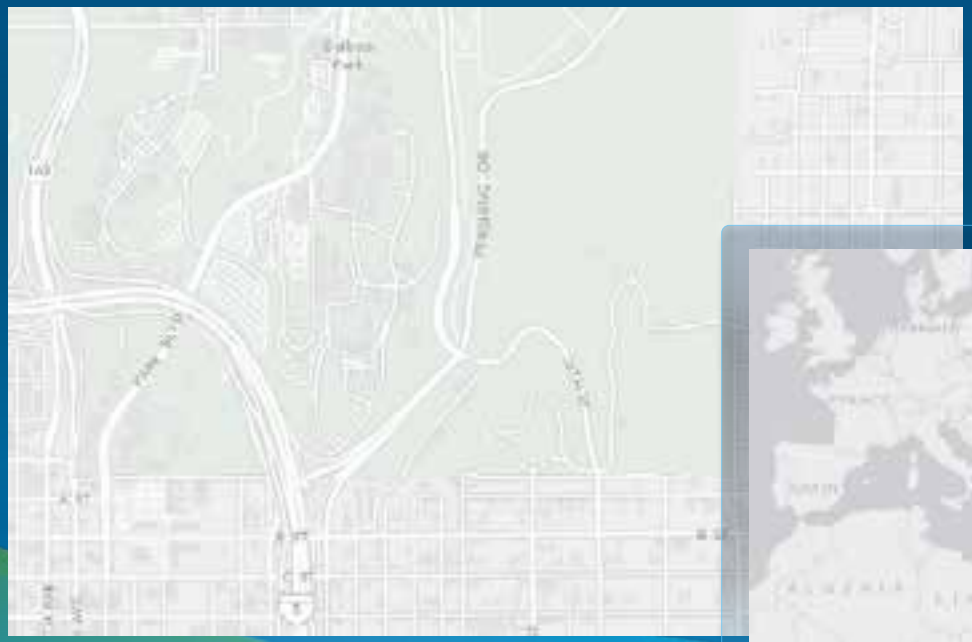
National Geographic Map

- 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

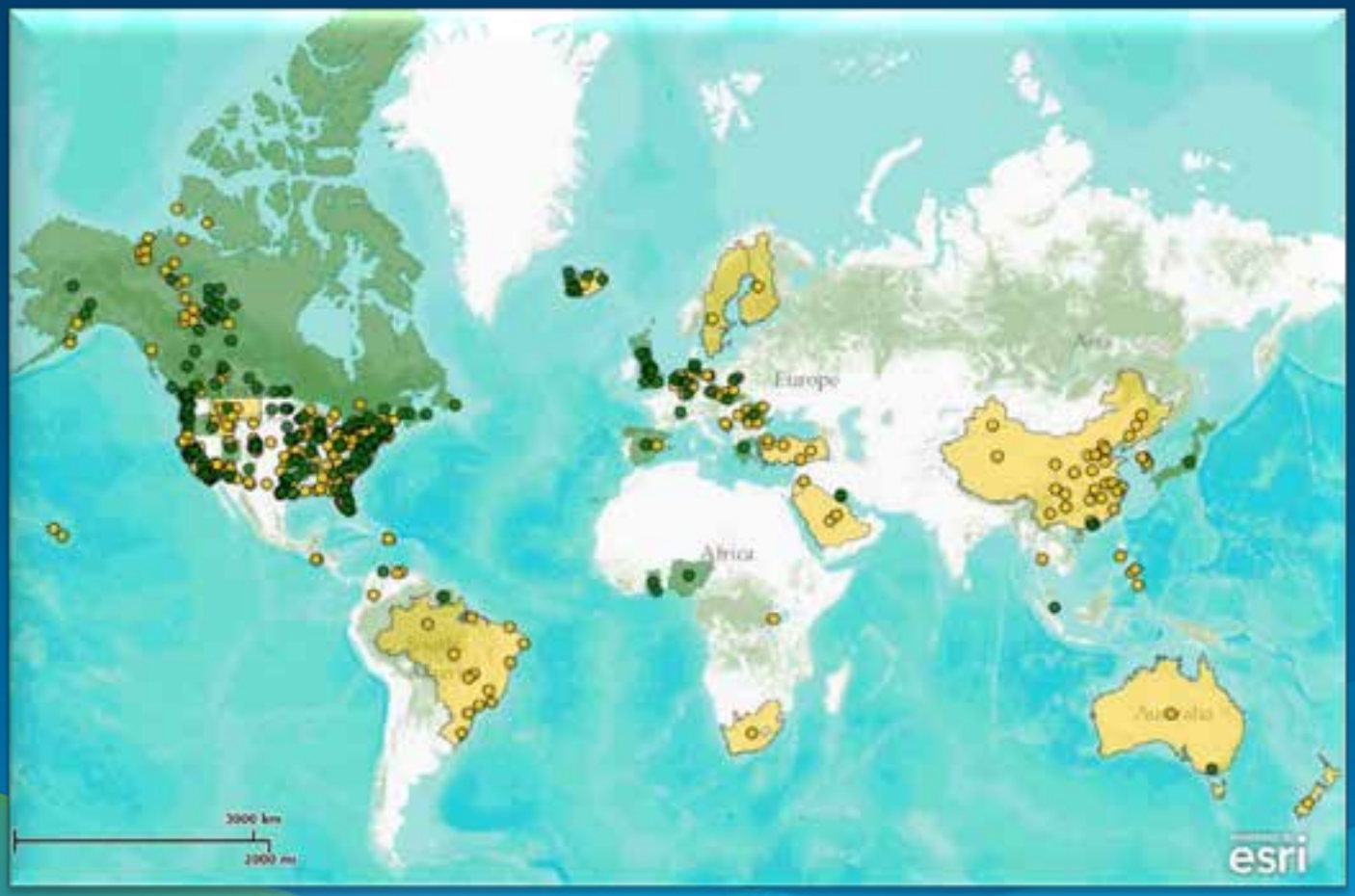


Community Maps Tour

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

Apply

Upload

Upload via web or request a drive

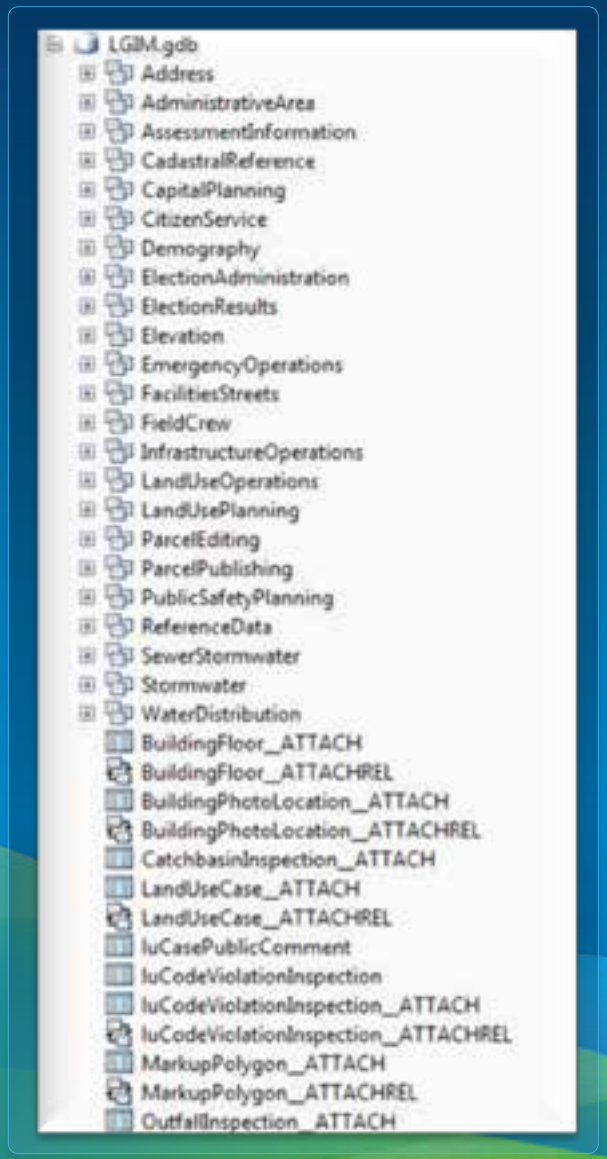
(1gb upload limit)

- **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

Data Layer Common Names		
Polygon	**Line**	**Point**
Administrative Boundaries	Administrative Boundaries	Points of Interest
Parcels	Water Lines	
Water Bodies	Railroads	
Land Use	Road Centerlines	
Landforms		

Community Maps Workflow

Apply | Upload | Review

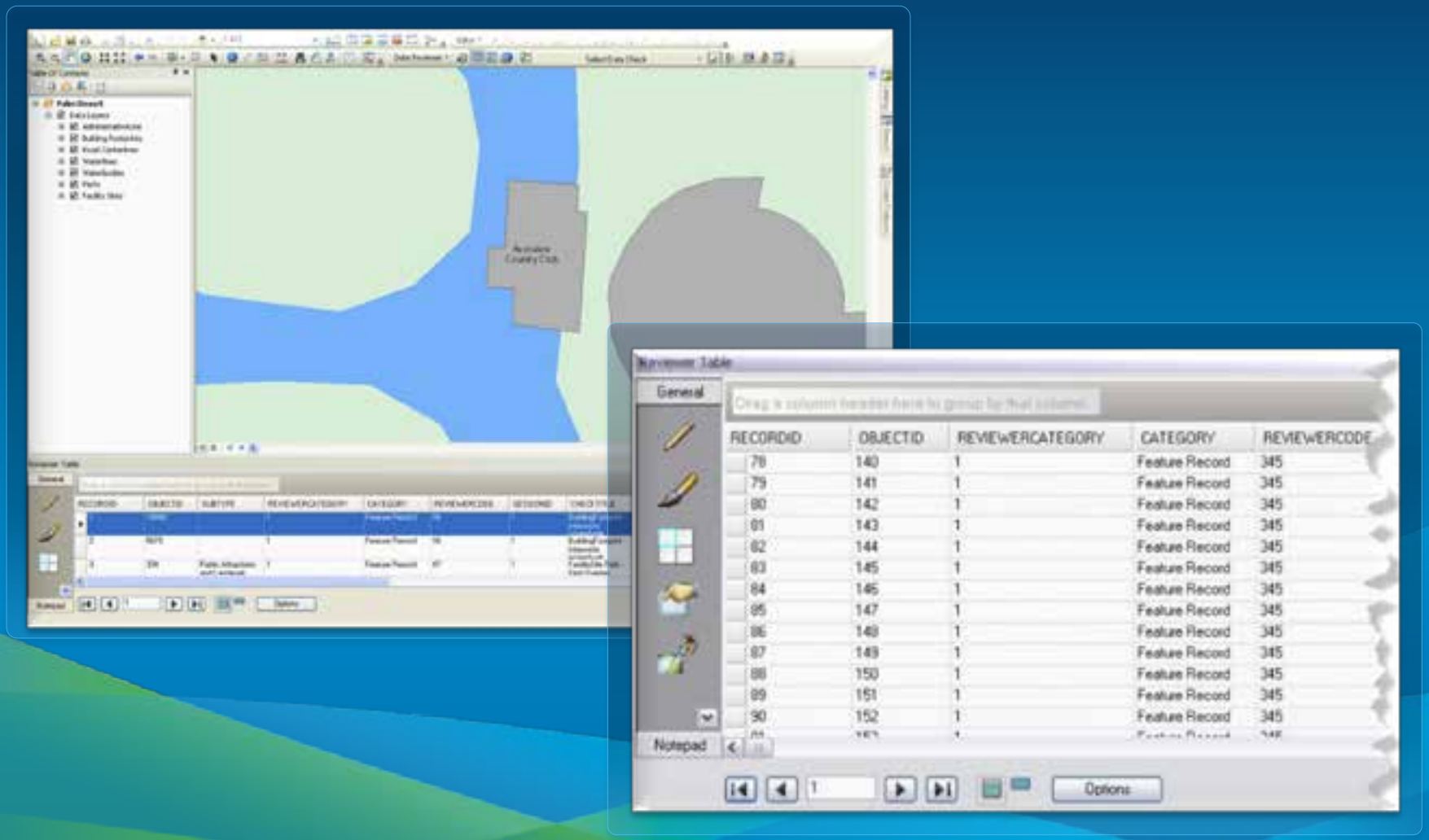
We'll review your data

We'll let you know if we find anything

You review the map

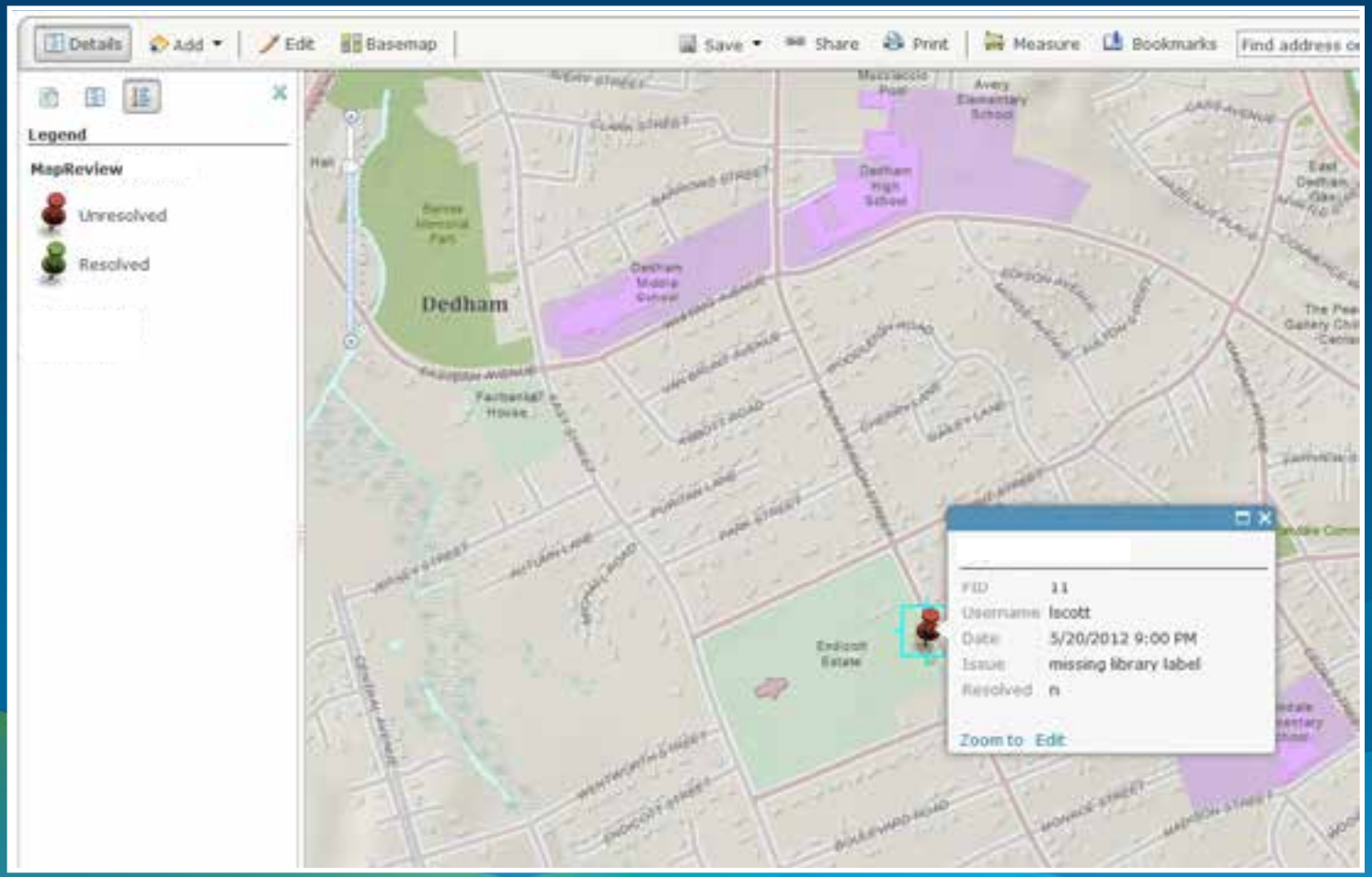
Review

- **Data review**



Review

- **Map review**



Community Maps Workflow

Apply | Upload | Review | **Contribute**

Contribute your data

When you're ready

Esri will make the map cache

Esri will host the map cache

Community Maps Workflow

Repeat as necessary

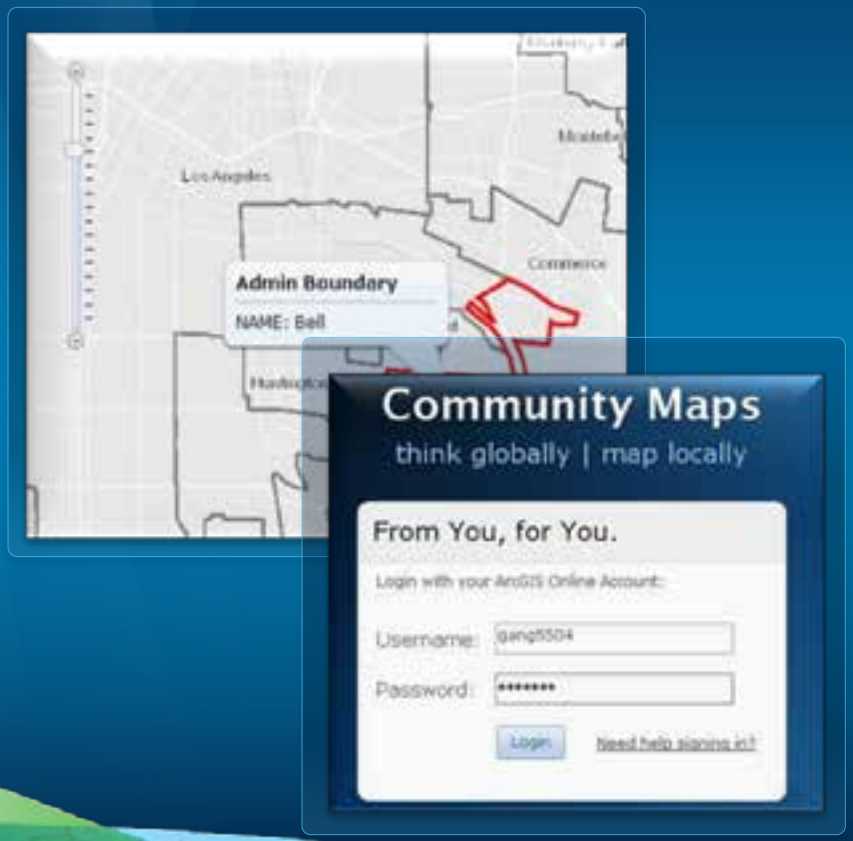
Keep your map current

Update as your data change

A

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

User Story Maps and Apps

Shane Matthews

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 to learn more
- ArcGIS Resource Center
  - http://resources.arcgis.com/en/communities/community-maps/
- E-mail
  - communitymaps@esri.com

Thanks for attending!

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