Creating Basemaps to Manage Buildings and Facilities

Mark Stewart and Tamara Yoder
Topics for this Session

- Overview of Basemaps
- Campus Basemap Template
- Local Government Information Model
- Campus Maps and the Community Maps Program
What is a basemap?
Campus basemap implementation road map

1. Complete Campus Basemap Template
2. Contribute to Community Maps Program
3. Use basemap in maps and apps
Campus basemap template

- Map template specifically for campuses
- Integrated with Local Government Information Model
- Can be incorporated into Community Map template

Layer examples:
- Parking lots
- Trees
- Buildings
- Landscaped areas
- Walkways
Local Government Information Model

- Uniform model to support all local government business functions

- Basemaps
- Emergency Management
- Facilities Management
- Land Records
Basemap and Data Model

- Local Government Information Model is **comprehensive**
  - Designed to support wide variety of municipal applications
- Campus Basemap only uses a few of the feature classes

[Diagram of data model and basemap]
Migrating data to the Local Government model

- Data Interoperability

- ArcGIS for Desktop Tools
ArcGIS Data Interoperability Extension

- Based on Safe Software’s Feature Manipulation Engine (FME)
- Used to create Spatial ETL tools
  - Extract, Transform, and Load
- Template ETLs available from Safe Software
  - Starting point for migration
    - Includes destination dataset with Local Government schema
    - Includes common transformers
ArcGIS for Desktop Tools

- Geoprocessing tools
  - Data loaders
  - Append
  - Feature to Point
- Heads up digitizing
- Attribute editing
  - For symbology and labeling
- ModelBuilder
Educational Data Playground

- Available through ArcGIS Online
- Created by Esri Canada
- Contribute content in an online environment
- Three components
  - Map My Campus
  - Map My School
  - Map My Project
Migrating data to the Campus Basemap Template
Mark Stewart
ArcGIS is a Complete System

- Powered by ready to use content
- Contributed by Esri AND the User Community
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
The World Topographic Map

- The flagship Community Map
- A basemap that shows:
  - Multiple scales
  - Shape of the land
  - Elevation of the land
  - Physical and cultural features
Contributing Content to Community Maps

- Current output is World Topographic Map Service
  - More planned in the future
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 and facilities management

- Online community maps are available for internal and external applications
- Many templates and configurable applications to work from
Campus Basemap and 3D

Your basemap can form the foundation for 3D applications

Exciting enhancements planned for the future

Visit the 3D Island for more details
Tour of Campus
Maps and Apps
Tamara Yoder
Online Community Maps Workshops

• The best way to get started with authoring your map!
• Building a Campus Basemap
  • One day
• ArcGIS Online Community Maps Workshop
  • Two days
• Free!

• training.esri.com
Get Started at the UC

- Opportunities to learn more and start this week
  - Community Maps Tech Workshops
    - *Community Maps Information Model, an Introduction*
      - 3:15 – 4:30
  - Visit us at **Content Island** in Showcase
    - Talk with Community Maps Team at the Island
    - Sign Up to Get Started using **Online Participation Form**
Thanks for attending!

Please remember to fill out your evaluation

www.esri.com/ucsessionssurveys
Offering ID: 1825

and follow us on Twitter: @AGOL_CM_Program!