Migrating Data to the Local Government Information Model

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Agenda

• Introduction
• Configuration Patterns
• Demonstrations
  - Configuring the Information Model
  - Load Data into the Information Model
• What’s Next
• Your Feedback
ArcGIS for Local Government
A solution for Esri’s local government customers

• A series of useful maps and apps focused on local government work
  – Organized into modules
  – Extensible, configurable
  – A foundation for Partner solutions

• An online community
  – Best Practices / Implementation Support

• A network of Esri Services and Partner offerings
  – Help users implement, sustain and enhance

......Available on-premise or in the cloud
Our Mission

Help increase the value of GIS in local government organizations

• Make it easier to deploy ArcGIS
  - Deliver applications quickly throughout your organization
  - Stay current with future releases / avoid legacy technology
  - Create a platform of geospatial data that can be leveraged by many

• Address common constraints in local government
  - Size and skills of staff
  - Budget and time available to implement

• Empower the community to contribute
  - Users
  - Partners
ArcGIS for Local Government
Changing the way GIS is deployed

Your Needs

- Organizational Needs
- Industry Specific Needs
- General GIS Platform Needs

DIY
3rd Party Apps
Consulting

Focused Maps & Apps
Harmonized information model

ArcGIS Platform
(Desktop, Mobile, Server, Online)

The project...

ArcGIS for Local Government

...reducing time, risk and cost so GIS is easier to deploy and maintain
ArcGIS for Local Government Solution

Access from Maps and Apps website

Citizens

- Mobile Apps
- Web Apps
- Printed Maps

Water Utilities
- Editing Maps
- Map Services
- Mobile Apps
- Web Apps

Land Records
- Centralized Information Model
- Standard basemaps
- Common Feature / Map Services

Public Safety

Access from ArcGIS.com
Local Government Community

An online community where Local Government users and partners can collaborate
Configuration Patterns

- Influential factors
  - COTS and configurable solutions strategy
  - Deployment time
  - Technical expertise

- Three configuration patterns
  - Complete system adoption
  - Publish and adopt
  - Sample code and customize

- Where do you start?
  - With your business requirements *(NOT the GDB!)*
  - Align them with maps and apps
  - Review system configuration patterns
Complete System Adoption

Configure GDB schema
- Add fields, features
- Configure domains
- Set spatial reference
- Load source data

Step 1: Organize your data

Configure maps
- Adjust scale dependencies and def queries
- Validate label expressions
- Publish basemaps and map services

Step 2: Author the maps

Configure the desktop, mobile and web apps
- Add basemaps and map services
- Adjust extents
- Configure popups
- Deploy Add-ins and models

Step 3: Deploy the apps

Supported by Esri Support Services
Publish and Adopt

Step 1: Create publication database
- Configure GDB schema
  - Add fields, features
  - Configure domains
  - Set spatial reference

Step 2: Load production data
- Create ETL Scripts
  - Set source / target
  - Schedule scripts
  - Migrate production data

Step 3: Author the maps
- Configure maps
  - Adjust scale dependencies and def queries
  - Validate label expressions
  - Publish basemaps and map services

Step 4: Deploy the apps
- Configure the mobile and web apps
  - Add basemaps and map services
  - Adjust extents
  - Configure popups

Supported by Esri Support Services
Sample Code and Customize

Configure your GDB schema
- Add fields, features

Step 1:
Use your GDB Schema

Configure maps
- Repair map layers (source and symbology)
- Adjust scale dependencies and def queries
- Validate label expressions
- Publish basemaps and map services
- Or, just try to use your maps…

Step 2:
Repair the maps

Publish your own mobile and web apps
- Customize/re-compile the apps
- Add basemaps and map services
- Adjust extents
- Configure popups

NOT supported by Esri Support Services
Configuring the Information Model

- Supports maps and apps
  - Known local government requirements
  - Easy to adopt and extend
- Fully documented
  - Features, layers and packages
- Central repository, organized around thematic content and logical permission model
- Organized access/maintenance patterns
  - GDB replication, layers and services
- Tip
  - Xray for ArcCatalog and ArcMap
  - Safe FME and Esri Data Interop Extension

Start with the layer and field aliases and work from there....
Demo

Steve Grise
Vertex3, Inc.
X-Ray for ArcGIS

• X-Ray is a part of ArcGIS that helps you build better Maps and Geodatabases
• Developed by Vertex3 in collaboration with Esri and expert ArcGIS users
• Supported by Esri
• Freely distributed on ArcGIS.com
What can I use it for?

• View the details of your maps and Geodatabases
• Manage/Edit your Design
  • With practical, simple, round-trip tools
• Manage Content later in the project lifecycle
• Tailor ArcGIS Templates for your organization
• Build new templates for your customers and/or country
X-Ray for ArcGIS - Demo

• X-Ray provides ArcMap & ArcCatalog Add-Ins for designing and managing GIS content
• 10 Major Enhancements in 2012

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3. Data Source:
C:\Users\steve\Documents\ArcGIS\MapsandGeodatabase\LocalGovernment.gdb\ReferenceData

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Summary

• Showed examples using X-Ray to manage your design/implementation
• Specialized tools for implementation
• Works with all ArcGIS tools
  • Round-trip design
  • Multi-tool
  • Full Geodatabase model
  • Design and Manage
FME Technology

• Esri Local Government Information Model
• Pain Point: Customers wanting to populated the Loc Gov Information Model
• Solution: Esri Data Interop or FME Desktop
• Esri and Safe collaboration
• Spatial ETL tools and FME Workspaces
  - Walk through Polling Places and Election Results workflows
  - Creating more Spatial ETL and FME Workspaces
Summary

- Local Government Information Model Resources
  - Esri Data Interop
  - FME Desktop

- More Coming:
  - Check ArcGIS Online for “FME” to see What’s Available
What’s Next
Solution Offering

• Quarterly Releases
  - Improved help documentation, videos, etc.

• Complementary Partner offerings
  - Safe FME Workspaces, FMEpedia articles, videos, etc.

• Model Online Implementation
  - Roles, Groups, Information Products, Configurable Apps, etc.
What’s Next
Additional Maps and Apps

• Public Safety
  - Fire Incident Command
  - Cell Phone Analysis/Investigation

• Planning and Economic Development
  - Site Selection/Economic Gardening
  - Well and Septic Permitting

• Land Records
  - Field Assessment
  - Operations Dashboard

• Public Works and Water Utilities
  - Capital Project Coordination
  - Stormwater Assessment
  - One Call
  - Capital Planning (Roads)
  - Sign Inspection

• Management
  - Executive Dashboard
Summary

- Identify the business needs of your organization
- Evaluate the state of your data holdings
- Select a configuration pattern that makes sense for your organization
- Don’t hesitate to ask for help from
  - Esri
  - Partners
ArcGIS for Local Government
UC Sessions

Click Here
Please fill out your surveys
www.esri.com/ucsessionssurveys
Offering ID:160

Questions

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