Building Applications Leveraging the ArcGIS for Local Government Solution

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ArcGIS

A Complete System for Geographic Information

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

Cloud

Online

Enterprise

ArcGIS Solutions
- Local Government
- State Government
- Utilities
- Defense

Web
Mobile
Desktop
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

...reducing time, risk and cost so GIS is easier to deploy and maintain
A System View
Deploying ArcGIS for Local Government
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
  - Align them with maps and apps
  - Review system configuration patterns
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

Step 3:
Customize the apps

The developer pattern
Configuring the Information Model

- Supports maps and apps
  - Known local government requirements
  - Easy to adopt and extend
- Fully documented
  - Features, layers and services
- Central repository, organized around thematic content and logical permission model
  - Organized access/maintenance patterns
- Service catalog supports mobile / web apps
  - Hosted or On-Premise
- Tip
  - Xray for ArcCatalog and ArcMap

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

Configuring the Information Model
Configuration the Web Apps

• Anatomy of the web apps
  - Javascript / HTML 5 apps
  - ArcGIS Viewer for Flex configurations
  - REST, GP, and Geometry Services, Web Maps

• Can be configured quickly using:
  - CSS and using standard .js configuration file

• Example
  - Park and Rec Finder
Demo

Configuring the Parks and Rec Finder App
Customizing the Web Apps

• Source code repositories available on GitHub

• Two primary repository types (web apps):
  - Javascript
  - ActionScript

• Example
  - Park and Rec Finder
Summary

• Identify the business needs of your organization
• Evaluate the state of your data holdings
• Select a configuration pattern that makes sense for you
• Configure quickly, customize if necessary
• Participate in the community
  - Share your configurations / customizations
  - Submit Github “Pull Requests”
• Don’t hesitate to ask for help from
  - Esri
  - Partners
Local Government Community

There's a place where developers can contribute
Growing User Community

More than 125K downloads
Over a 100 downloads/day
Continuously Evolving

- New Maps and Apps
  - Law Enforcement, Fire Service, Public Works, Economic Development
- ArcGIS Online
  - Model organization
  - Web application templates
- Additional community support
  - Meetups - virtual user groups
  - More help, videos, etc.
- Expanded partner and service offerings

Released two to three times a year
Questions

Please fill out your surveys

Session ID: 67

@ArcGISLocalGov

http://esri.github.com/#Government,Local