ArcGIS for Public Works: An Overview

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Agenda

• Introduction

• Solution Offering

• What’s Next

• Your Feedback
ArcGIS as a Platform
Simple, Open, and Configurable

- Knowledge Workers
- Executive Access
- Public Engagement
- Work Anywhere
- Enterprise Integration

Making Mapping and GIS Available Across Your Organization

Transforming the Role of GIS
ArcGIS for Local Government

Esri’s solution for local government customers

• Series of useful maps and apps focused on government work
  • Organized into modules
  • Extensible, configurable
  • Freely available and fully supported
  • A foundation for Partner solutions
• Community of users
  • Best Practices / Implementation Support
• Network of Esri Services and Partner offerings
  • Help users implement, sustain and enhance

Available on-premise or in the cloud
Our Mission
To help you:

• Deliver maps and applications quickly throughout your organization

• Stay current with future releases / avoid legacy technology

• Deploy a geospatial platform that can be leveraged by many

• Leverage the collective knowledge of the entire community

• And do this with...less staff, budget, and technical expertise
ArcGIS for Local Government
Public Works Maps and Apps
Public Works Maps and Apps

Existing solution offerings

Prepare for Incidents and Events
A collection of maps used by engineering and operations staff to prepare for incidents or events, develop response plans, and communicate road closures.

Connect with Citizens
A collection of maps used by citizens to locate parks, obtain information about public works services, and submit requests for service in their community.

Maintain Facilities and Grounds
The Campus Editing map can be used by mapping technicians to maintain building, interior space, and exterior campus features.

Manage Snow Operations
The Snow Operations Dashboard application can be used by operations managers to monitor snow event responses and determine which streets are not getting attention.
Our Goals
Expand the public works offerings in the local government solution

• Develop focused maps and apps that address key workflows in:
  • Mapping and Design
  • Transportation Planning
  • Right of Way Operations
  • Parking
  • Citizen Services

• Leverage ArcGIS Online as a platform for public works information and workflows

• Grow a community of users to guide the solution offerings
  • Started with City of Tampa, FL
Today’s Public Works Business Requirements

Expectations and business requirements have changed

• Historically, CAD and “paper” have been used to support mapping
• But, today’s business environment have changed these requirements......
Show Me!
Public Works Maps and Apps
A System View
Deploying ArcGIS for Local Government

- Central groups
- Common services
- Standard basemaps
- Information model

Citizens

- Embedded maps
- Mobile apps
- Web apps
- Open data

Public Works

- Functional groups
- Editing maps
- Services
- Mobile apps
- Web apps
- Dashboards

Fire Department

Assessor’s Office

Public Works

Citizens

Embedded maps
Mobile apps
Web apps
Open data

Citiens
How do I get started?
Leverage solution offerings to maximize technical expertise and minimize deployment time

1. Select a configuration pattern
   a) Complete system adoption
   b) Publish and adopt
   c) Sample code and customize

2. Deploy quick wins
   a) Align with key business requirements
   b) Select one or more focused maps and apps
   c) Configure your mapping platform
   d) Deploy the focused maps and apps
   e) Iterate....

Initial Implementation → Iteration 1 Road Closures → Iteration 2 Public Parking → Iteration 3 Sign Inventory → Iteration 4 Public Parking (2.0) → Iteration 5 Road Network Management
What’s Next?
Continuously Evolving Solution Offering
The Community
It’s not just about the technology

Destination where governments can collaborate

Place where developers can contribute too

Ongoing dialog to share success stories and learn from others
It’s a Process
Continuously Evolving Solution Offering

• New maps and apps:
  • Signaled Intersections
  • Asset Inventory
    • Guardrail, Tree, Street Furniture, and RR Crossings
  • Capital Project Planning
    • Definition, Coordination, Tracking, and Reporting
  • Pavement Management
    • Micropaver integration, citizen information

...as we expand community engagement and develop partner and professional service offerings
Closing

- Deliver a “public works GIS” that enables success
  - Easier to deploy and sustain

- Evolve and grow the collection of apps

- Develop a community of users

- Provide a platform for partners to deploy their solutions
UC Events

• ArcGIS for Local Government Sessions
  • Seven different tech workshops

• Solution Island
  • Focused conversations / support
Thank you...

http://solutions.arcgis.com

http://meetup.com/ArcGIS-for-Local-Government/

@ArcGISLocalGov

http://esri.github.com

Please fill out the session survey:

Offering ID: 1335

Online - [www.esri.com/ucsessionsurveys](http://www.esri.com/ucsessionsurveys)

Paper - Pick up and place in drop box