GIS in Public Works: Real-time, Analytical, Collaborative and Engaged

Mike Dyer and Anthony Myers
Challenges for Public Works Organizations

- Aging infrastructure
- Limited funding for repairs
- Rising costs of improvements
- Population growth straining existing infrastructure and service delivery
Public Works organizations are looking for ways to:

- Better manage public assets
- More effectively allocate field resources
- Maximize the value of public dollars spent on infrastructure improvements
- Increase transparency and quality of service to citizens
ArcGIS

Providing mapping, analysis, data management, and collaboration

An Integrated Web GIS Platform
Map where things are, show how they relate, determine what it all means, and determine what actions to take
ArcGIS Apps for the Field

Operations Dashboard

Collector for ArcGIS
Survey 123 for ArcGIS
Drone2Map for ArcGIS

ArcGIS Pro

ArcGIS Pro

Navigator for ArcGIS

Workforce for ArcGIS

Field Operations

Monitor

Capture

Navigate

Plan

Coordinate
Apps for Everyone

ArcGIS apps get the job done through their sheer focus, geographic awareness, and readiness to work. They are powered by the industry-leading ArcGIS mapping platform.

Try ArcGIS

See what ArcGIS Apps are available

Apps for the Field
Take GIS to the Field and Back

Apps for the Office
Make Better Decisions with Geographic Insights

Apps for the Community
Engage Your Audience

App Builders
Build Your Own Apps, No Coding Required

http://www.esri.com/apps
DEMONSTRATION 2
Key Takeaways

- Apps are a key component of the ArcGIS Platform and provide new capabilities and opportunities for public works.
Apps

Field
- Navigator
- Workforce
- Mobile
  - Collector
  - Survey123
  - (Connected & Disconnected)

Office
- ArcGIS for AutoCAD
- Explorer
- ArcGIS Earth
- Maps for Office
- Dashboard

Public
- Open Data
- Story Maps
- Photo Survey
- Crowdsourcing

Configurable Solutions That Work Together
Easy, Focused, and Ready-to-Use
ArcGIS Solutions for Public Works

Maintain Public Road Network
- Maintain Public Road Network
- Track Maintenance Agreements
- Index Plans and Drawings
- Inventory Administrative Areas

Traffic Engineering
- Crash Analysis
- Vision Zero
- Road Closures

Parks and Grounds
- Park Locator
- Inventory Building Information
- Locate Places on Campus

Solid Waste and Sanitation
- Manage Snow Operations
- Leaf Collection

Mosquito Control
- Report Mosquito Activity
- Request Spray Exclusion
- Locate Mosquito Spray Areas
- Conduct Field Operations
- Suppress Adult Mosquitos
- Control Juvenile Mosquitos
- Monitor Mosquito Populations
- Track Vector-Borne Diseases

Inventory Right of Way Assets
- Street Sign Inventory
- Traffic Signal Inventory
- Streetlight Inventory
- Street Trees Inventory
- Bridge Inventory
- Sidewalk Inventory
- Street Furniture Inventory
- Pavement Markings Inventory

Parking
- Promote Public Parking

Citizen Engagement
- My Government Services
- Adopta
- Citizen Problem Reporter
- Public Comment

Capital Project Planning
- Capital Project Tracking

Flood Planning
- Events Permitting
- Events Site Map
- Event Coordination
- Events Permit Review
- Event Communication
ArcGIS Industry Specific Maps and Apps
ArcGIS Solutions deliver Ready-to-Use Maps and Apps to jumpstart your work.

Leverage hundreds of ready-to-use maps, apps, and platform configurations to meet your needs, delivering innovation and best practices for your organization.

solutions.arcgis.com
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- Insights for ArcGIS provides simple but powerful analytics capabilities for public works organizations.
Let’s continue the conversation

• Public Works - Esri Showcase Tuesday 9-6, Wednesday 9-6, Thursday 9-1:30
• Public Works Special Interest Group Wednesday 12:00 -1:00pm, Room 24B
• Public Works Maps and Apps for Local Government Wednesday 3:15 – 4:30, Room ?

Moderated Paper Presentations
• Modern Public Works Tuesday 1:30-2:45, Room ?
• The Perfect Match: Public Works and Mobile Wednesday 3:15 – 4:30, Room ?
• Public Works Simplified: GIS Applications for Public Works Thursday 1:30-2:45, Room 16A

• State and Local Government Social Wednesday 5:30 – 7:30, ?