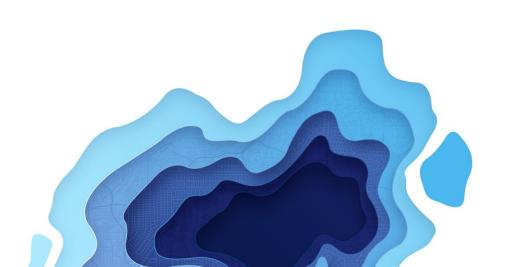
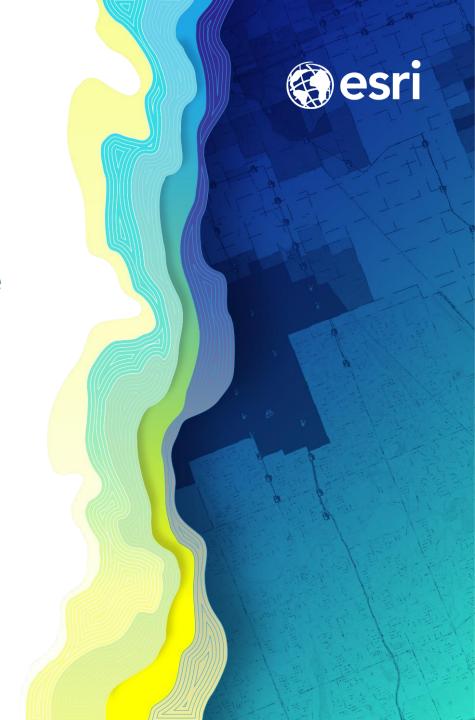


GIS in Public Works: Real-time, Analytical, Collaborative and Engaged

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

An Integrated Web GIS Platform

Providing mapping, analysis, data management, and collaboration





ArcGIS is a Complete Public Works Location Platform

Location Enablement

Discover, use, make, and share maps at work -anywhere, anytime

Constituent Engagement

Facilitate and manage communication with stakeholders

Decision Support

Inform execs and management with maps and location intelligence

Field Mobility

Get authoritative information into and out of the field

Analytics

Describe, predict, and improve business performance

Location Data Management

Collect and organize location data about your assets and resources

Map where things are, show how they relate, determine what it all means, and determine what actions to take





















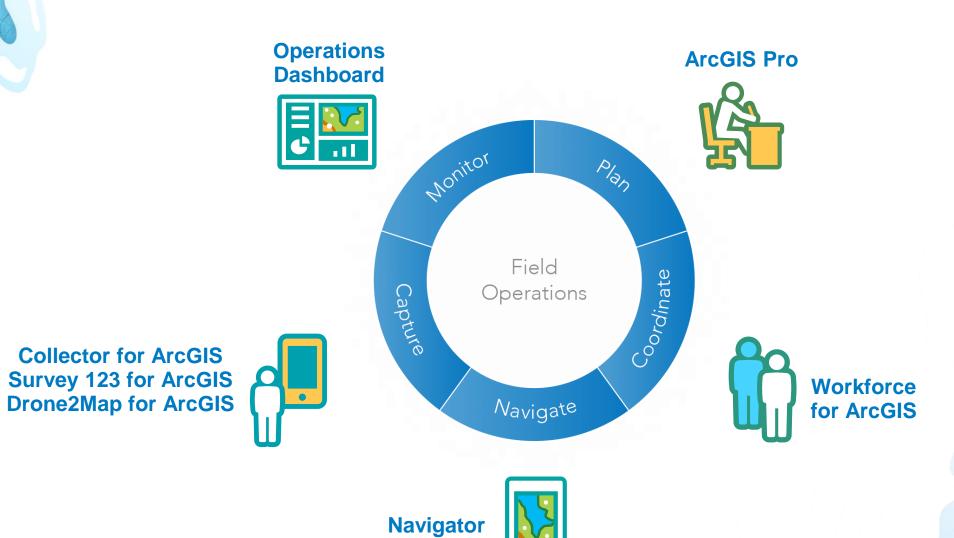
Web GIS



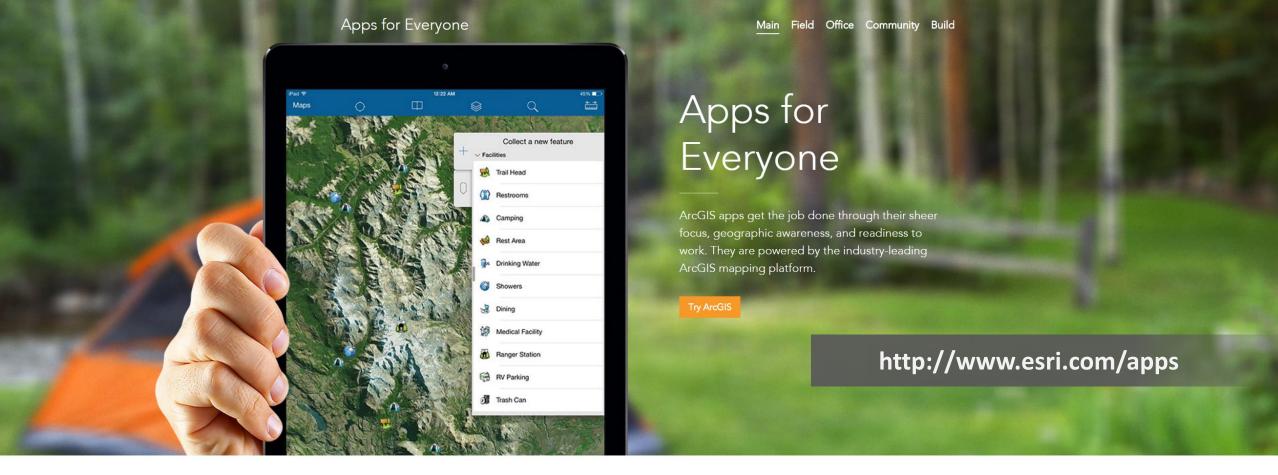


DEMONSTRATION 1

ArcGIS Apps for the Field



for ArcGIS



See what ArcGIS Apps are available



Apps for the Field Take GIS to the Field and Back







Apps for the Community





App Builders

Build Your Own Apps, No Coding Required



DEMONSTRATION 2



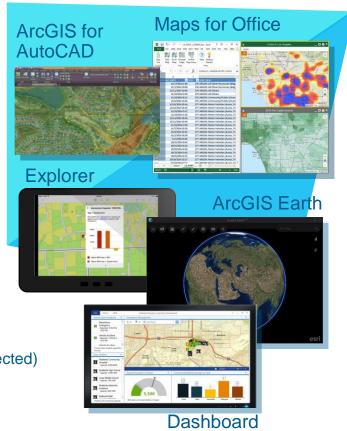
 Apps are a key component of the ArcGIS Platform and provide new capabilities and opportunities for public works.

Apps

Field



Office



Public



Bridge Inventory Campus Editing Campus Place Locato Capital Project Planning

Crash Analysis

Flood Planning

Mosquito Adulticide Planning

Plans and Drawings Guardrail Inventory

Public Parking

Signal Inventory SnowCOP

Street Furniture Invento

Streetlight Inventory

i am building

A SMART

esri.com/SmartSolutions

COMMUNITY

OCAL GOVERNMEN

Parks Color Basemap Visitor Amenity Mappe

STATE GOVERNMEN ENVIRONMENT AND NATURAL RESOURCES

Permit Dashboard

Birth Outcomes Analysis Birth Outcomes Briefing My Health Services Restaurant Inspections

FISH AND WILDLIFE

Environmental Screening

Water Quality Inspections

HEALTH

Wildlife Management Area Locator Wildlife Photo Survey

CAMEO Tools

Damage Assessment Debris Reporting

Emergency Managem

Events Map Gallery

Events Permit Review

Events Permit

Hazard Vulnerability Assessment Health and Safety Reports Impact Summary

Hazard Assessment and Analysis

Events Site Map Flood Planning

Incident Status Dashboar Operations Reponse

Photo Survey Public Information Road Closures

Shelter Locator Situational Awareness Viewe

PUBLIC SAFETY

Adopta Attribute Assistant Backflow Inspection Capital Project Planning Capital Project Tracking

Customer Complaints

Leak Logger Analysis Main Break Notification Manhole Inspections Map Change Request Map Notes

High/Low Water Consumptio

MS4 Inventory Recorder Network Trace Widget Nighttime Flow Analysis

Pressure Zone Analysis Sanitary Sewer Network Service Feasibility Widget Sewer Service Lookup Social Media Sentiment Viewer Utility Isolation Trace

Water SCADA Processor

Water Service Request Water Utility Network Editing and Analysis Water Violations

UTILITIES

Park and Recreation Locato Public Land Survey Editing Mar

State Trail Locator Water Quality Dashboard Water Quality Status

TRANSPORTATION

Bridge Inventory Crash Analysis

Road Closures

Sign Inventory
Signal Inventory
SnowCOP
Streetlight Inventory
Transportation 511

Crash Risk Briefing

Wildlife Photo Survey

ArcGIS for Online for State Government

<u>@esri</u>

ArcGIS Solutions for Public Works



Maintain Public Road Network

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



Solid Waste and Sanitation

Manage Snow Operations Leaf Collection



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



Capital Project Planning
Capital Project Tracking



Traffic Engineering

Crash Analysis Vision Zero Road Closures



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



Parking

Promote Public Parking



Citizen Engagement

My Government Services
Adopta
Citizen Problem Reporter
Public Comment



Flood Planning

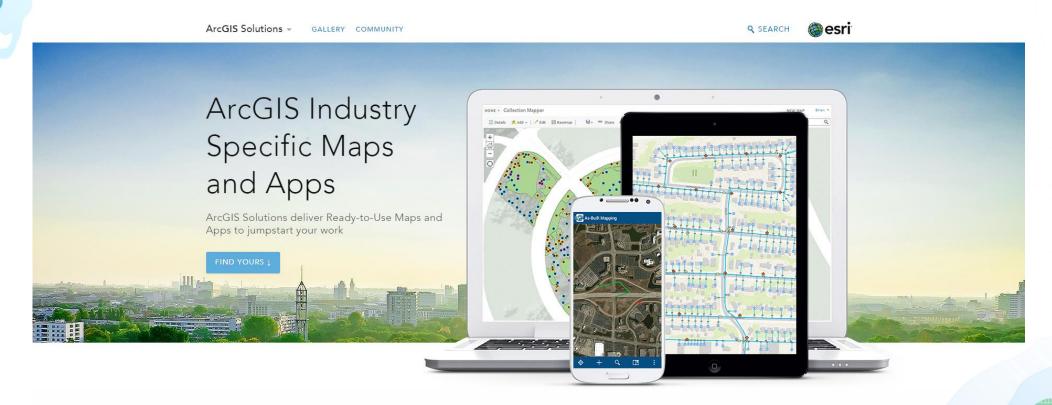


Events Permitting
Events Site Map
Event Coordination
Events Permit Review
Event Communication



Parks and Grounds

Park Locator
Inventory Building Information
Locate Places on Campus



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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ArcGIS Pro simplifies the process of deploying apps.



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• Esri partnership with Waze Connected Citizen Program engages your customers in a meaningful way and delivers valuable real-time data to your organization in return.

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• Esri partnership with Waze Connected Citizen Program engages your customers in a meaningful way and delivers valuable real-time data to your organization in return.

• 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, ?

