Public Works Maps and Apps for Local Government

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Public Works

**Overview**

- The functions of a Public Works Department vary from one organization to another.
- Some manage visible assets, others manage underground assets, mix of both, etc.
- In many cases, public works must also handle:
  - Solid Waste / Sanitation
  - Fleet
  - Buildings and Grounds
  - Parks
Today’s Public Works Business Requirements

Expectations and business requirements have changed

• Historically, CAD and “paper” used to support maintenance and construction
• But, today’s business environment have changed these requirements......
GIS Has Evolved

Your GIS is an Interconnected Platform

Bringing Together Data, Technology, and People . . .
... Creating a Framework for Solving Complex Problems
ArcGIS Solutions for Local Government

Improving local government operations and enhancing services provided to the public

• Collection of useful maps and apps
  • Configurable and extensible
  • Freely available and fully supported

• Community of users (2000+ Meetup members)
  • Best Practices / Implementation Support

• Network of Esri Services and Partner offerings
  • Help users implement, sustain and enhance

Available on-premise or in the cloud
Mission

• Deliver maps and applications quickly throughout their organization
  • Roadmap for standard capabilities, improve service delivery, expand reach, innovation....

• Stay current with future releases / avoid legacy technology
  • Save time and money, leverage new ArcGIS offerings, focus on complex or unique problems....

• Unlock geospatial platform so it can be leveraged by many
  • Mitigate many organizational challenges, maximize technical expertise....

• Leverage the collective knowledge of the entire community
  • Best practices, industry tradecraft....
## Stabilize Neighborhoods

- Tackle Opioid Epidemic
- Assess Resiliency
- Reduce Homelessness

## Public Health

### Elections
- Share Election Results
  - Early Voting
  - Election Polling Places
  - Polling Wait Times
  - Election Results
  - Historical Election Results Gallery
  - My Elected Representative

### Public Health

- Tackle Opioid Epidemic
  - Reduce Homelessness
    - Naloxone Deployment Reporter
    - Drug Activity Reporter
    - Drug Drop-off Locator
    - Drug Drop-off Calculator
    - Health Resource Inventory
    - Opioid Treatment Locator
    - Pain Management Locator
    - Opioid Response Dashboard
  - Reduce Homelessness
    - Homeless Point-in-Time Counts
    - Homeless Service Locator
    - Homeless Activity Reporter

### Fire Service

- Improve Fire Operations
  - Develop Pre-Incident Plans
  - Increase Fire Prevention
  - Respond to Emergencies
    - AED Locator
    - AED Inventory
    - Develop Pre-Incident Plans
      - Target Hazard Analysis
      - Pre-Incident Plan Coordinator
      - Pre-Incident Plan Field Inventory
      - Pre-Incident Plan Dashboard
      - Pre-Incident Plan Locator
  - Increase Fire Prevention
    - Fire Safety Survey
  - Engage the Public
    - Citizen Problem Reporter
    - My Trash Services
    - Adopta

### Public Works

- Maintain Public Road Network
  - Promote Public Parking
  - Promote Public Parking
  - Respond to Emergencies
  - Manage Mosquito Populations
  - Manage Mosquito Populations
  - Engage the Public
  - Manage ROW Activities
    - Street Tree Inventory
    - Bridge Inventory
    - Sidewalk Inventory
    - Pavement Marking Inventory
    - Guardian inventory
    - Street Furniture Inventory
    - Railroad Crossing Inventory
    - Traffic Calming Inventory
    - Street Intersection Inventory
    - Cycling Infrastructure inventory
    - Manage ROW Activities
      - Mosquito Adulthood Planning
      - Mosquito Field Observations
      - Mosquito Health Concerns
      - Mosquito Larviciding Reporting
      - Mosquito Population Surveillance
      - Mosquito Service Request
      - Mosquito Spray Areas
      - Mosquito Spray Notifications
      - Mosquito Spray Exclusions

### Planning and Development

- Encourage Orderly Growth
  - Stabilize Neighborhoods
  - Engage Public
  - Visualize Proposed Developments
  - Manage Address Information
  - Visualize Proposed Developments
  - Address Crowdsourcing
  - Administrative Area
  - Data Management
  - Promote Vibrant Communities
    - Site Selector
    - Incentive Zones
    - My Neighborhood Services
    - Manage Community Events
  - Entire Organization
    - Visibility Assessment
    - Calculate Solar Radiation
    - Shadow Impact Analysis
  - Local Government 3D Scenes
    - 3D Public Survey
    - Local Government 3D Scenes
    - 3D Public Survey
  - Entire Organization
    - Performance Management
    - Performance Management
  - Construction Activity Tracker
    - Park Locator
    - Public Comment
    - Public Notification
    - Photo Survey
  - Entire Organization
    - Performance Management
    - Performance Management
  - Property Condition Survey
    - Neighbors Early Warning
    - Blight Status
    - Demolition Tracker
    - Mortgage Counseling Locator
    - Code Violation
    - Engage Public
    - Construction Activity Tracker
    - Park Locator
    - Public Comment
    - Public Notification
    - Photo Survey
  - Entire Organization
    - Performance Management
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    - Performance Management
    - Performance Management
Our Goals

Expand the use of location-based data in public works organizations

• Develop focused maps and apps that address key workflows in:
  • Engineering
  • Operations
  • Environmental Services

• Modernize public engagement for public works organizations
• Leverage ArcGIS Online as a platform for public works information and workflows
• Organize a community of users to guide the solution offerings
  • Started with City of Tampa, FL
  • Evolving with City of Austin, TX
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.

Show Me!
How do I get started?

Leverage solution offerings to maximize technical expertise and minimize deployment time

- Deploy quick wins
  - Configure your mapping platform
  - Align with strategic business needs
  - Implement one or more focused maps and apps
- Organize your data
- Iterate....
What’s New

• New offerings that support strategic initiatives like
  • Vision Zero / Crash Analysis
  • ROW Permitting

• Enhancements to existing offerings
  • Capital Project Planning
  • Public Engagement
    • My Trash Services
Road Ahead

• Simply, simplify, simplify

• Snow operations

• Asset condition / rating

• Public engagement
The Community

It's not just about the technology
Closing

• Deliver a public works GIS that enables your 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
Thank you
Be innovative, aware, and know you are not alone

🔗 http://solutions.arcgis.com/#Local-Government
👥 http://meetup.com/ArcGIS-for-Local-Government/
.Parcel @ArcGISLocalGov
🔗 http://esri.github.com