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UC
USER CONFERENCE

Public Works Solutions for Local Government

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SEE
WHAT
OTHERS
CAN'T

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

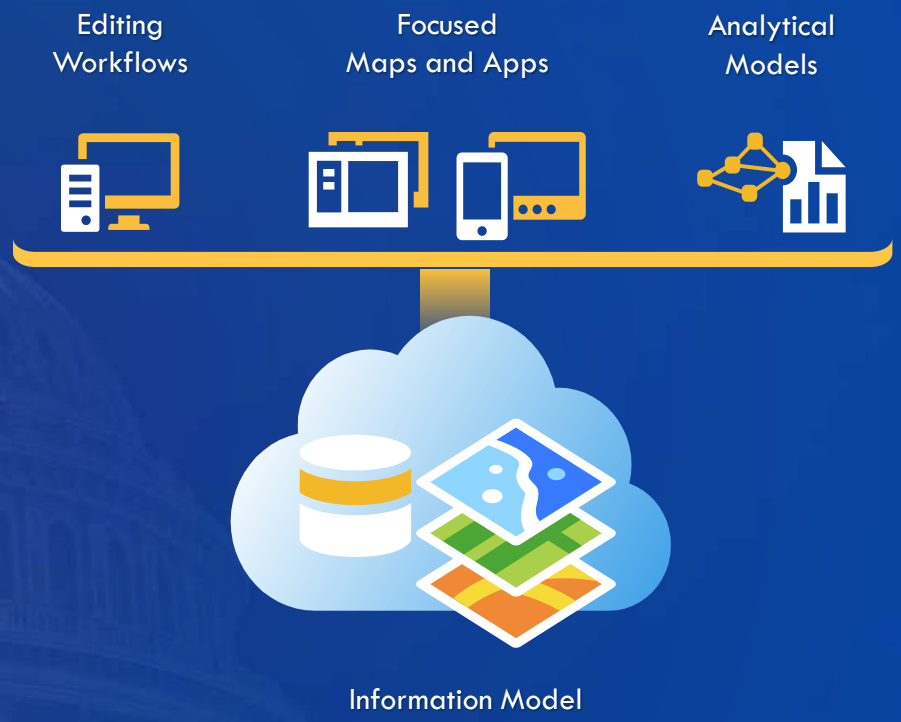
Your GIS is an Interconnected Platform

Bringing Together Data, Technology, and People . . .

. . . Creating a Framework for Solving Complex Problems

ArcGIS Solution Templates | State and Local Government

- Collection of useful maps and apps
  - Configurable and extensible
  - Freely available and fully supported
- Community of users
  - Best Practices / Implementation Support
- Network of Esri Services and Partner offerings
  - Help users implement, sustain and enhance



…Improving government operations and enhancing services provided to the public

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….

Local Government

(Cities, Counties and other local municipalities)

Elections

Conduct Election Outreach
- Voting Centers
- Election Polling Places
- My Elected Representative
- Election Data Management

Manage Election Activities
- Election Assistant
- Voter Satisfaction Survey
- Election Manager
- Election Performance Dashboard

Share Election Results
- Election Results

Public Health

Tackle Opioid Epidemic
- Opioid Awareness Maps
- 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
- Homeless Risk Reduction

Land Records

Manage Assessment Roll
- Tax Parcel Editing
- Data Reviewer for Tax Parcels
- Public Land Survey Editing
- Parcel Drafter
- Tax Map Book
- Community Parcels

Determine Property Value
- Value Analysis Dashboard
- Tax Reverted Properties

Respond to Appeals
- Property Tax Assessment Appeal

Inform the Public
- Tax Parcel Viewer
- My Tax Distribution
- School Locator
- Residential Comp Finder

Public Works

Maintain Public Road Network
- Road Network Editing
- Plans and Drawings
- Road Maintenance Agreements
- Road Closures

Promote Public Parking
- Public Parking

Reduce Traffic Fatalities
- Crash Analysis
- Crash Risk Briefing
- High Injury Network Locator
- Vision Zero
- Fatal and Serious Crash Dashboard

Engage the Public
- Citizen Problem Reporter
- Citizen Problem Satisfaction Survey
- My Trash Services
- Adopta

Respond to Emergencies
- Flood Planning
- SnowCOP

Maximize Capital Investments
- Capital Improvement Plan
- Capital Project Dashboard
- Capital Project Locator
- Capital Project Plans
- Capital Project Reports
- Capital Project Review
- External Agency Projects
- Pavement Moratoriums
- Participatory Budgeting

Manage ROW Activities
- ROW Permit
- ROW Permit Manager
- ROW Permit Dashboard
- ROW Permit Review
- ROW Permit Locator

Inventory ROW Assets
- Sign Inventory
- Signal Inventory
- Streetlight Inventory
- Street Tree Inventory
- Bridge Inventory
- Sidewalk Inventory
- Pavement Marking Inventory
- Guardrail Inventory
- Street Furniture Inventory
- Railroad Crossing Inventory
- Traffic Calming Inventory
- Street Intersection Inventory
- Cycling Infrastructure Inventory

Manage Mosquito Populations
- Mosquito Adulticide Planning
- Mosquito Field Observations
- Mosquito Health Concerns
- Mosquito Larvicide Reporting
- Mosquito Population Surveillance
- Mosquito Service Request
- Mosquito Spray Areas
- Mosquito Spray Notifications
- Mosquito Spray Exclusions

Planning and Development

Manage Address Information
- Address Data Management
- Data Reviewer for Addresses
- Community Addresses
- Address Field Verification
- Address Crowdsourcing
- Administrative Area Data Management

Promote Vibrant Communities
- Site Selector
- Incentive Zones
- My Neighborhood Services

Manage Community Events
- Events Calendar
- Events Permit
- Events Permit Review
- Events Site Map
- Events Coordination
- Events Map Gallery

Visualize Proposed Developments
- Local Government 3D Scenes
- 3D Public Survey
- Visualize Proposed Developments
- Visibility Assessment
- Calculate Solar Radiation
- Shadow Impact Analysis

Encourage Orderly Growth
- Land Use Inquiry
- Floodplain Inquiry

Stabilize Neighborhoods
- Property Condition Survey
- Neighborhood Early Warning
- Blight Status
- Demolition Tracker
- Mortgage Counseling Locator
- Code Violation

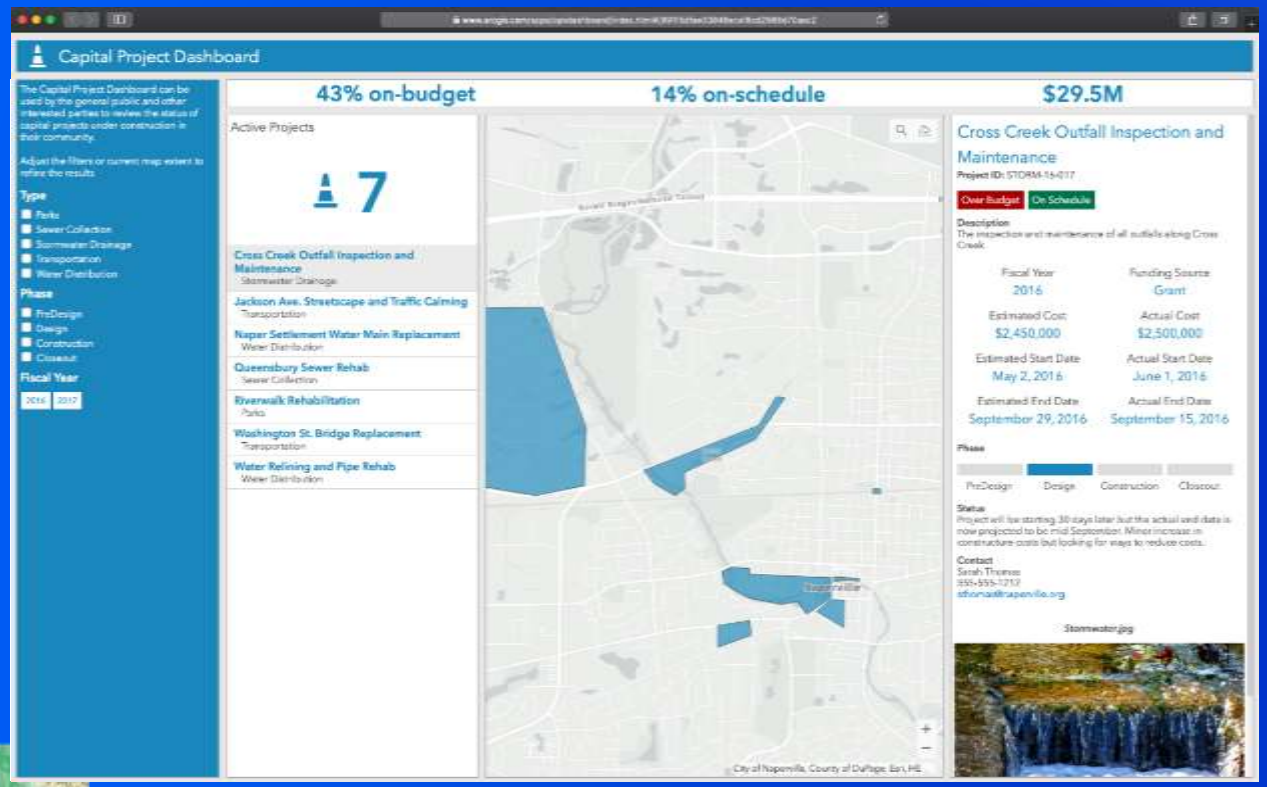
Engage Public
- Construction Activity Tracker
- Park Locator
- Public Comment
- Public Notification
- Photo Survey

Entire Organization

Performance Management
- Performance Management

Challenges

- Develop authoritative asset inventories and understand current conditions
- Educate and engage the general public
- Coordinate capital improvements and maximize investments
- Understand roadway hazards and evolving traffic or travel behaviors
- Minimize right of way conflicts and travel disruptions
- Access record drawings and legal agreements
- Respond to natural hazards (snow, flood, mosquitos)
- Simple data management and access for field and engineering staff


Capital Project Dashboard
43% on-budget
14% on-schedule
$29.5M
Active Projects
7
Cross Creek Outfall Inspection and Maintenance
Jackson Ave. Streetscape and Traffic Calming
Naper Settlement Water Main Replacement
Queensbury Sewer Rehab
Riverwalk Rehabilitation
Washington St. Bridge Replacement
Water Refining and Pipe Rehab
Cross Creek Outfall Inspection and Maintenance
Over Budget
On Schedule
Fiscal Year
2016
Funding Source
Grant
Estimated Cost
$2,450,000
Actual Cost
$2,500,000
Estimated Start Date
May 2, 2016
Actual Start Date
June 1, 2016
Estimated End Date
September 29, 2016
Actual End Date
September 15, 2016
PreDesign
Design
Construction
Closeout

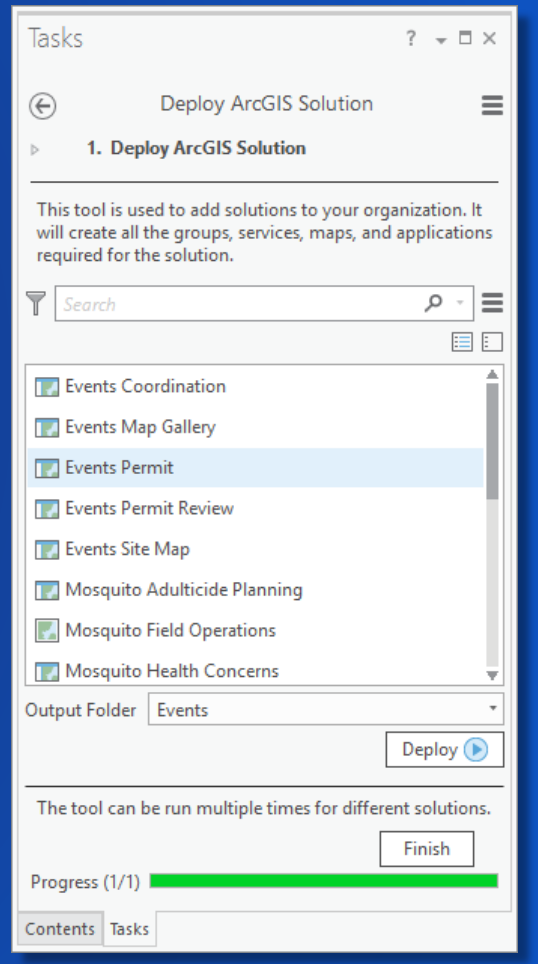
Show Me!

Simple Deployment Approach

ArcGIS Solutions Deployment Tool

- ArcGIS Pro Add-in
  - Discover, deploy and configure solutions in an ArcGIS Organization

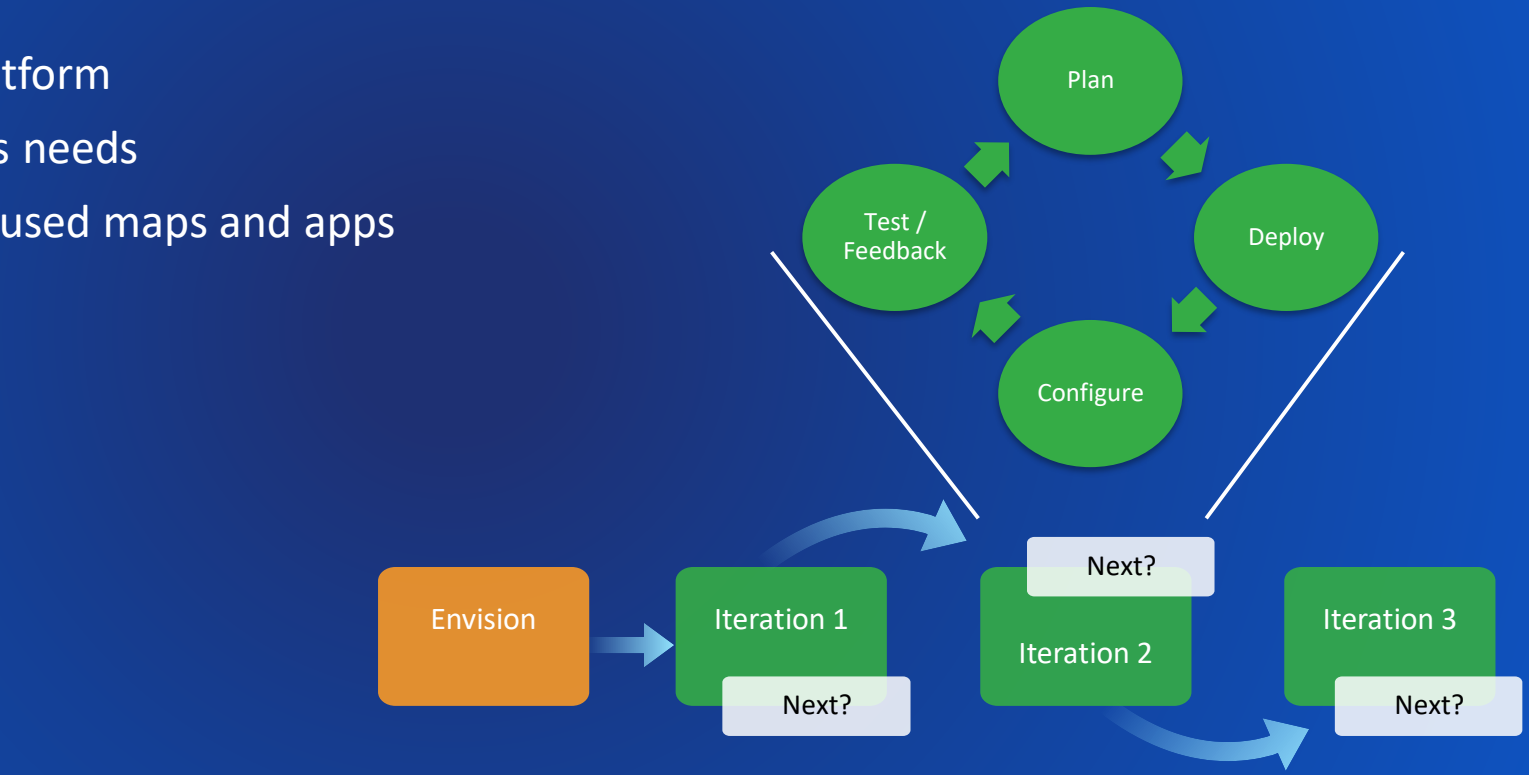
- Help users:
  - Discover solution offerings available
  - Deploy the services, maps, and configurable apps
    - One, or more, solution offerings
    - Without sample data
  - Configure the solution to meet their specific needs
    - Add fields
    - Modify field domains and aliases
  - Load data (if required)



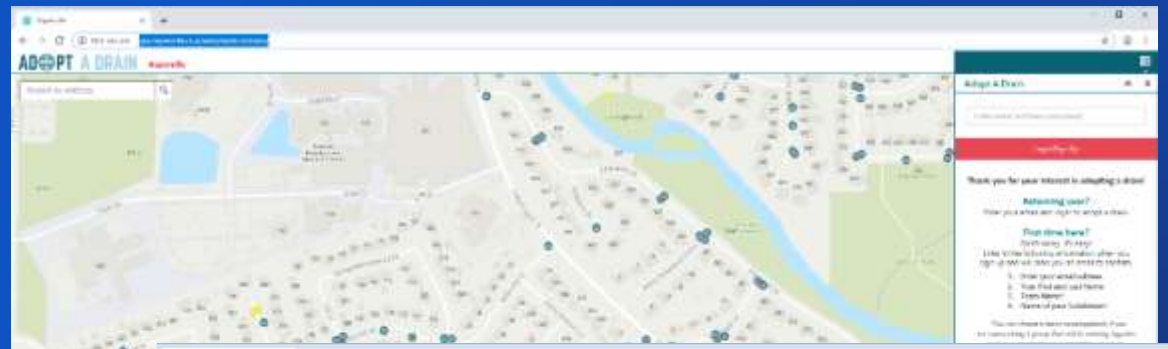
How do I get started?

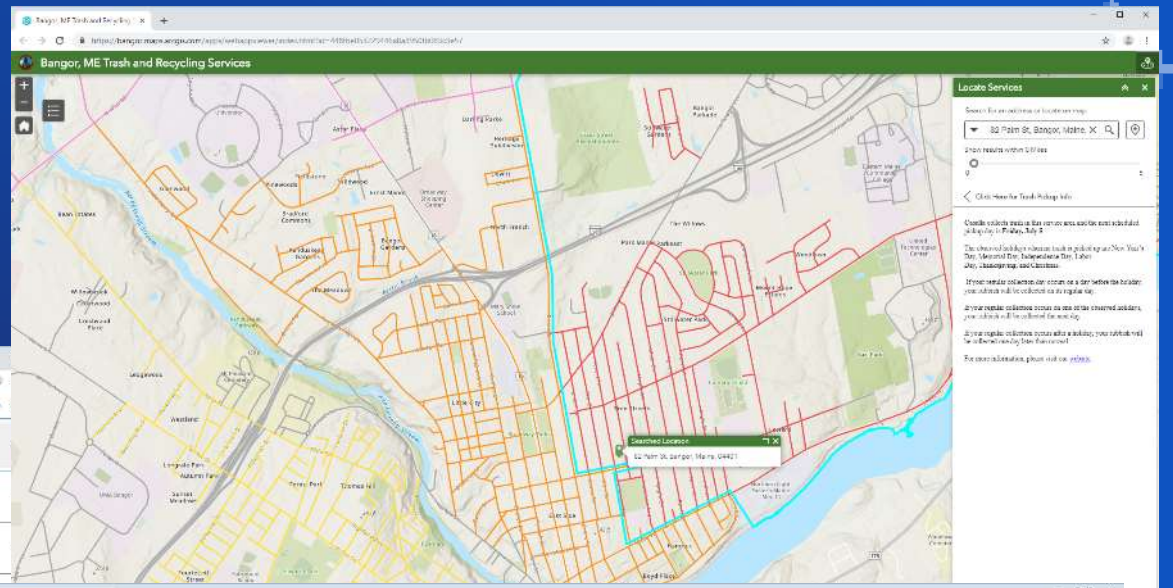
Leverage solution offerings to maximize technical expertise and minimize deployment time

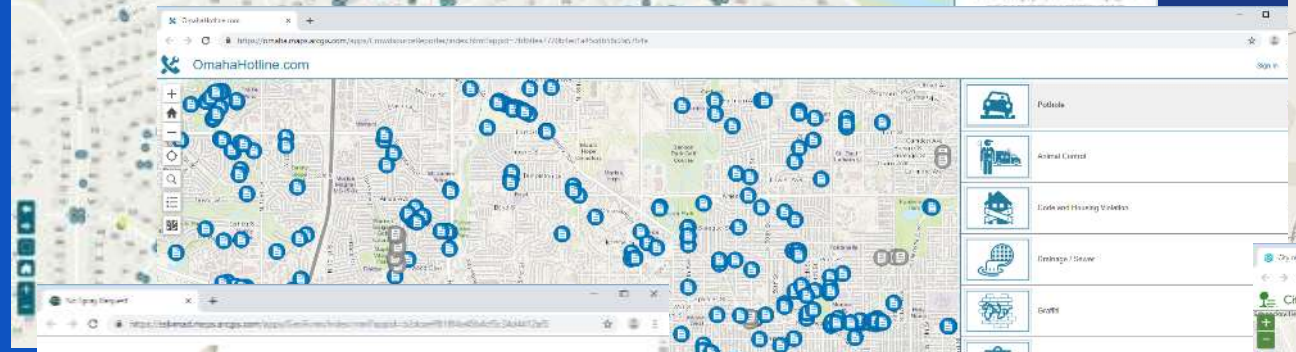
- Deploy quick wins
  - Configure your mapping platform
  - Align with strategic business needs
  - Implement one or more focused maps and apps
  - Organize your data
  - Iterate….

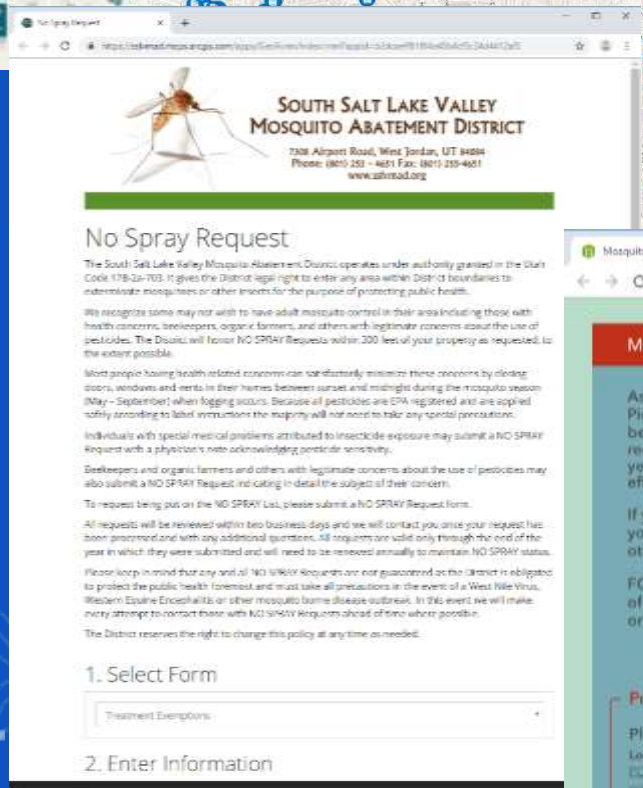


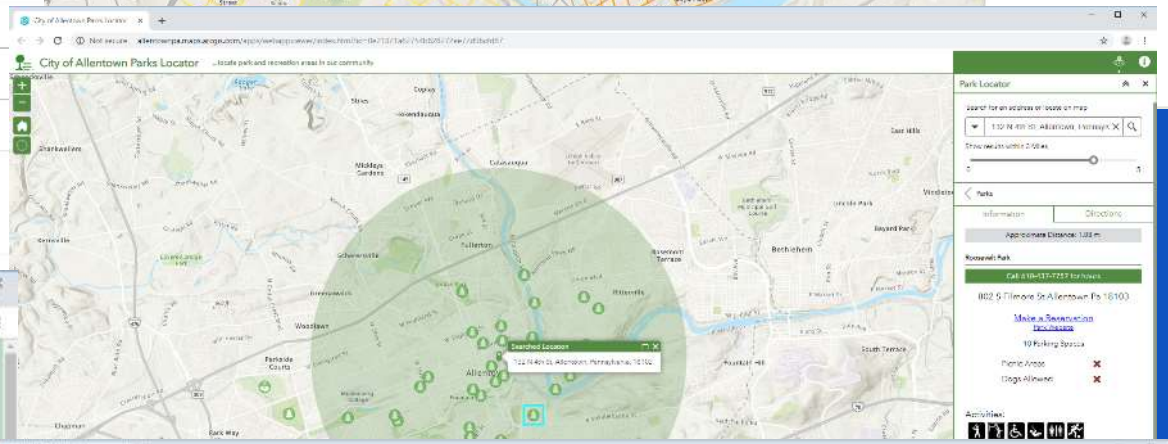
…embrace an agile implementation approach

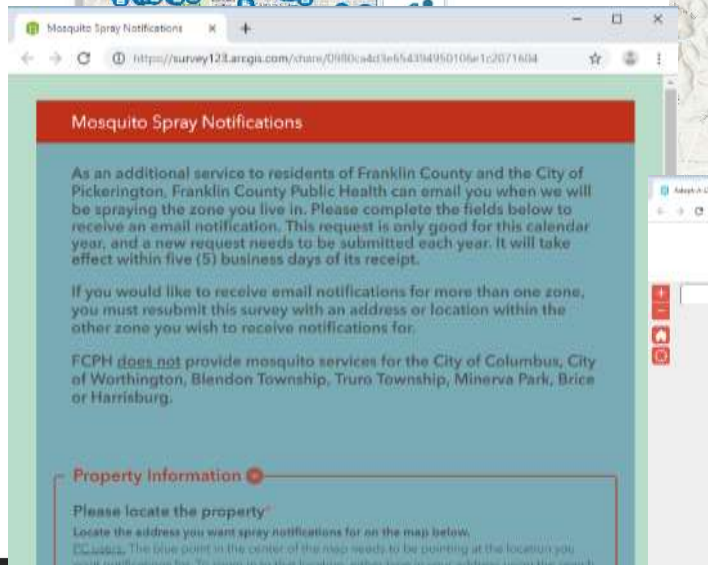

ADOPT A DRAIN

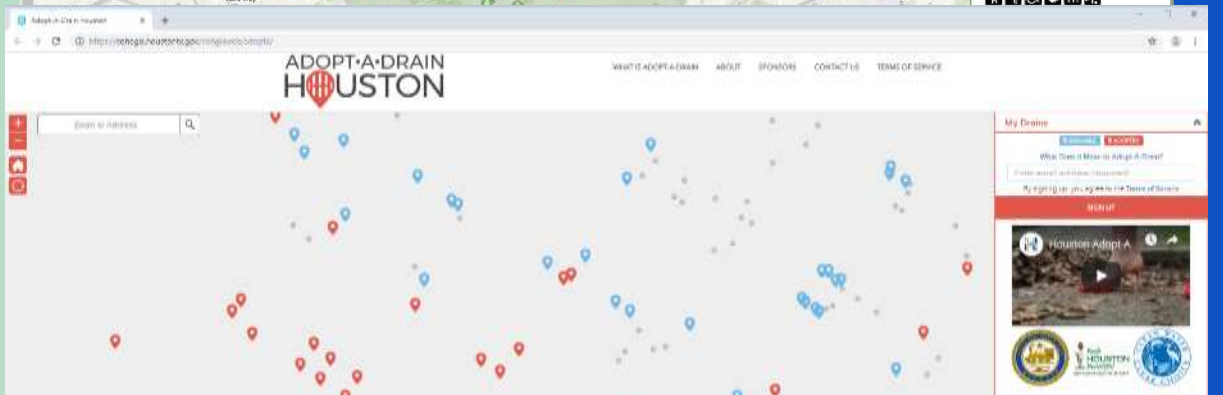

Bangor, ME Trash and Recycling Services
Locate Services


OmahaHotline.com
Pothole
Animal Control
Code and Housing Violation
Drainage / Sewer
Graffiti
Litter / Waste / Recycling
Parks / Trees / Woods
Public Health


SOUTH SALT LAKE VALLEY
MOSQUITO ABATEMENT DISTRICT
No Spray Request
1. Select Form
2. Enter Information

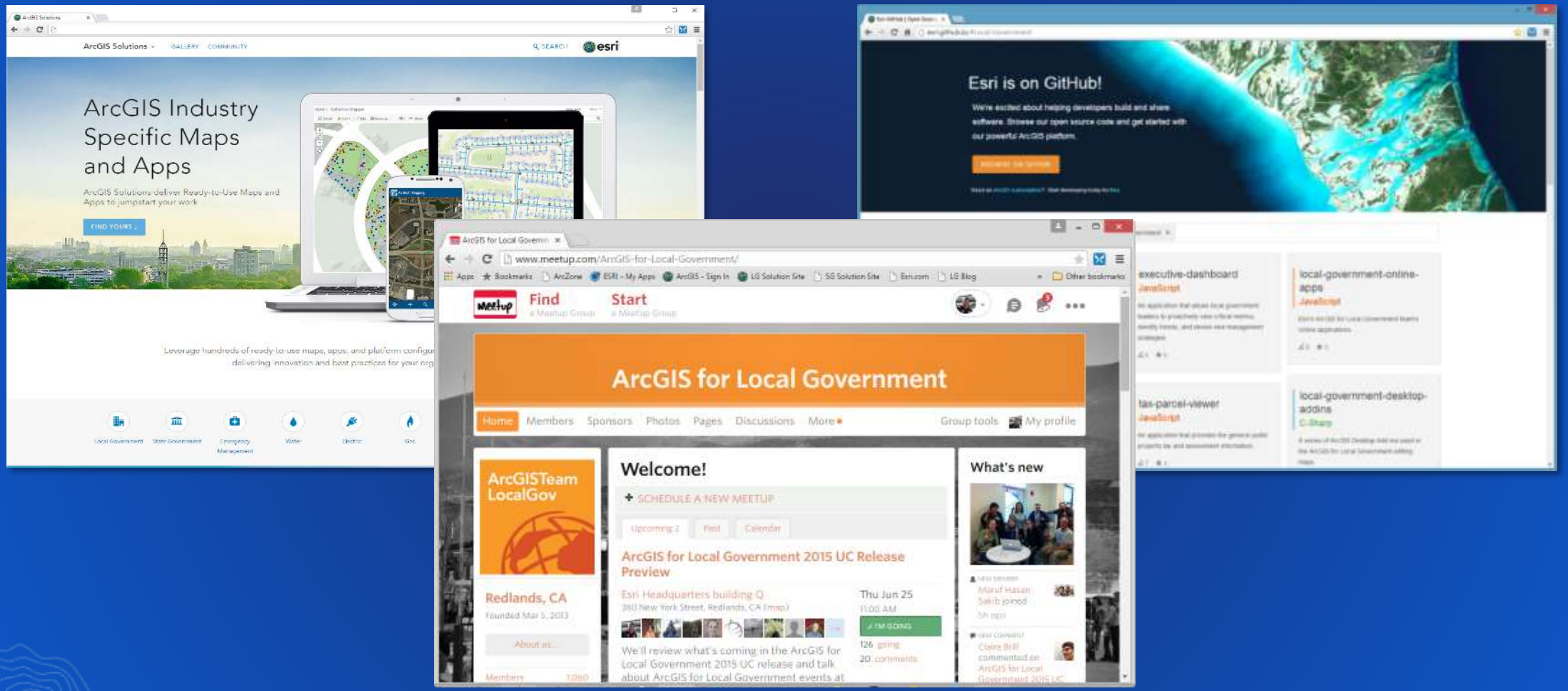

City of Allentown Parks Locator
Park Locator


Mosquito Spray Notifications
https://survey123.arcgis.com/share/0f80ca4d3e6543f495010fe1c2071604
Mosquito Spray Notifications
As an additional service to residents of Franklin County and the City of Pickerington, Franklin County Public Health can email you when we will be spraying the zone you live in. Please complete the fields below to receive an email notification. This request is only good for this calendar year, and a new request needs to be submitted each year. It will take effect within five (5) business days of its receipt.
If you would like to receive email notifications for more than one zone, you must resubmit this survey with an address or location within the other zone you wish to receive notifications for.
FCPH does not provide mosquito services for the City of Columbus, City of Worthington, Blendon Township, Truro Township, Minerva Park, Brice or Harrisburg.
Property Information
Please locate the property*
Locate the address you want spray notifications for on the map below.


ADOPT·A·DRAIN
HOUSTON

The Community

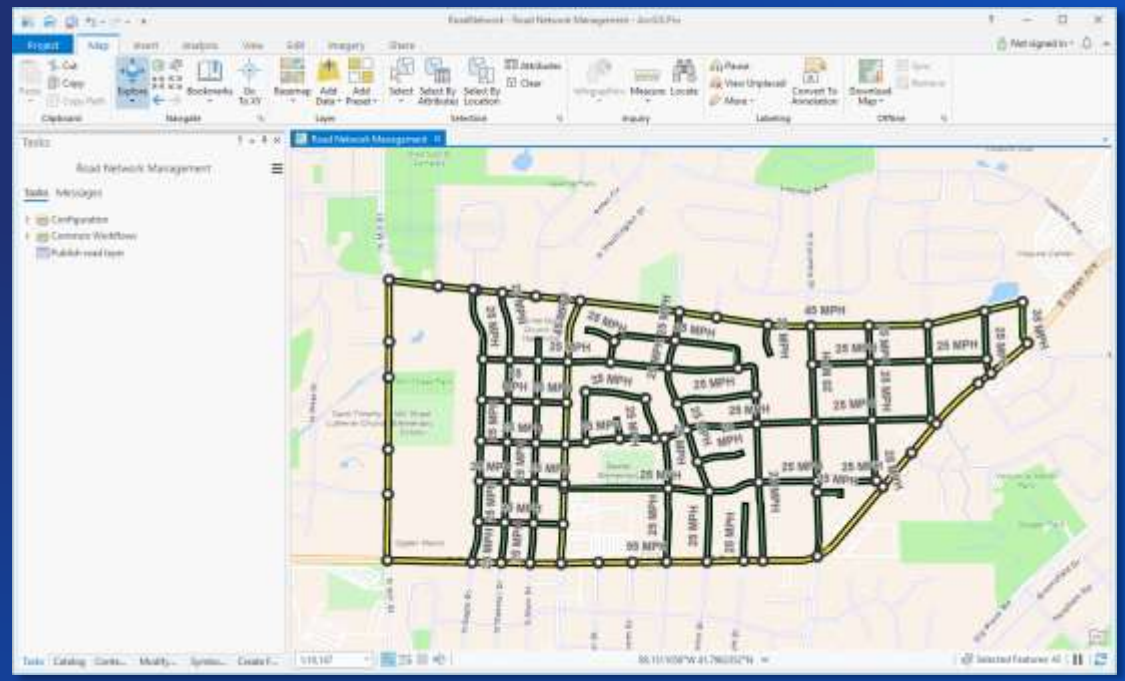
It's not just about the technology



Road Ahead

Continuously Evolving Solution Offering

- New solution templates that support strategic initiatives
  - Snow operations
  - Asset condition inspections / ratings
- Enhancements to existing solution templates
  - Road Network Data Management
  - Adopta
- ArcGIS Hub Initiatives
  - Maximizing Capital Investments
  - Citizen Problem Reporter

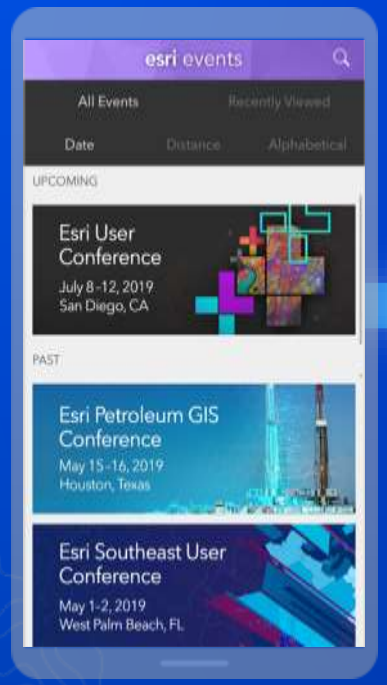


Closing

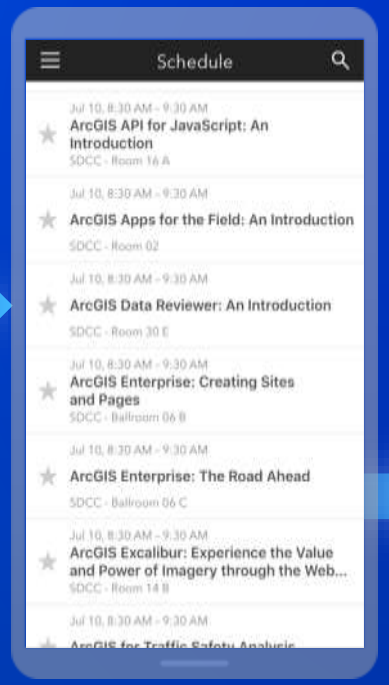
- Deliver solution templates that enable your success
  - Easy to deploy and sustain
- Evolve and grow the collection of solution templates
- Engage the user community
- Provide a foundation for partners
  - Enable organizations, deploy additional solutions

Please Share Your Feedback in the App

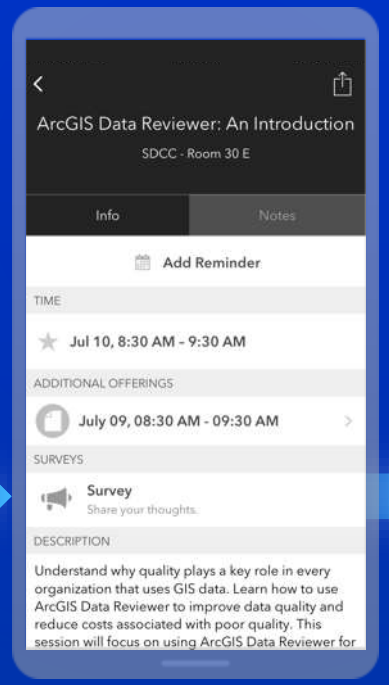
Download the Esri Events app and find your event



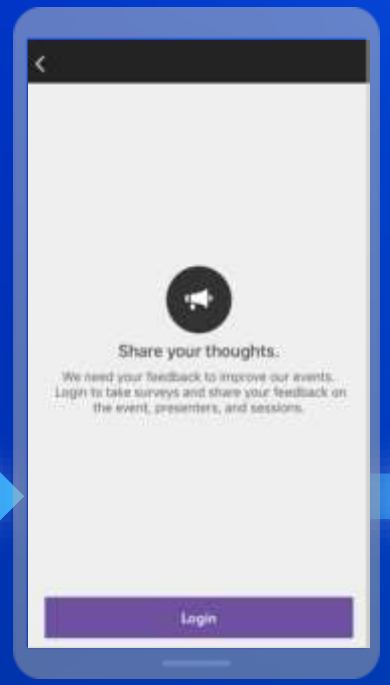
Select the session you attended



Scroll down to "Survey"



Log in to access the survey



Complete the survey and select "Submit"

Thank you

Be innovative, aware, and know you are not alone

Scott Oppmann, Team Lead
State and Local Government Solutions

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State and Local Government Solutions

http://solutions.arcgis.com/

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

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

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