ArcGIS Solutions

Real-world maps and apps to jumpstart your work

Shane Clarke
Esri

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ArcGIS Industry Specific Maps and Apps

ArcGIS Solutions deliver Ready-to-Use Maps and Apps to jumpstart your work

FIND YOURS ↓

Real solutions, in production, built in collaboration with real customers (including large cities), to meet real needs

332 Maps and Apps (October, 2016)

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

Built by developers, fully supported by Esri, source code on GitHub

Local Government | State Government | Emergency Management | Water | Electric | Gas | Defense | Telecommunications | Parks & Gardens

What have you done with ArcGIS Solutions?

1. Deployed one or more of the ArcGIS Solutions
2. Looked at the ArcGIS Solutions and concluded they are not suitable
    a. Because of dependency on Local Government Information Model
    b. Because “our needs are different and unique”
3. Have no idea what ArcGIS Solutions consists of

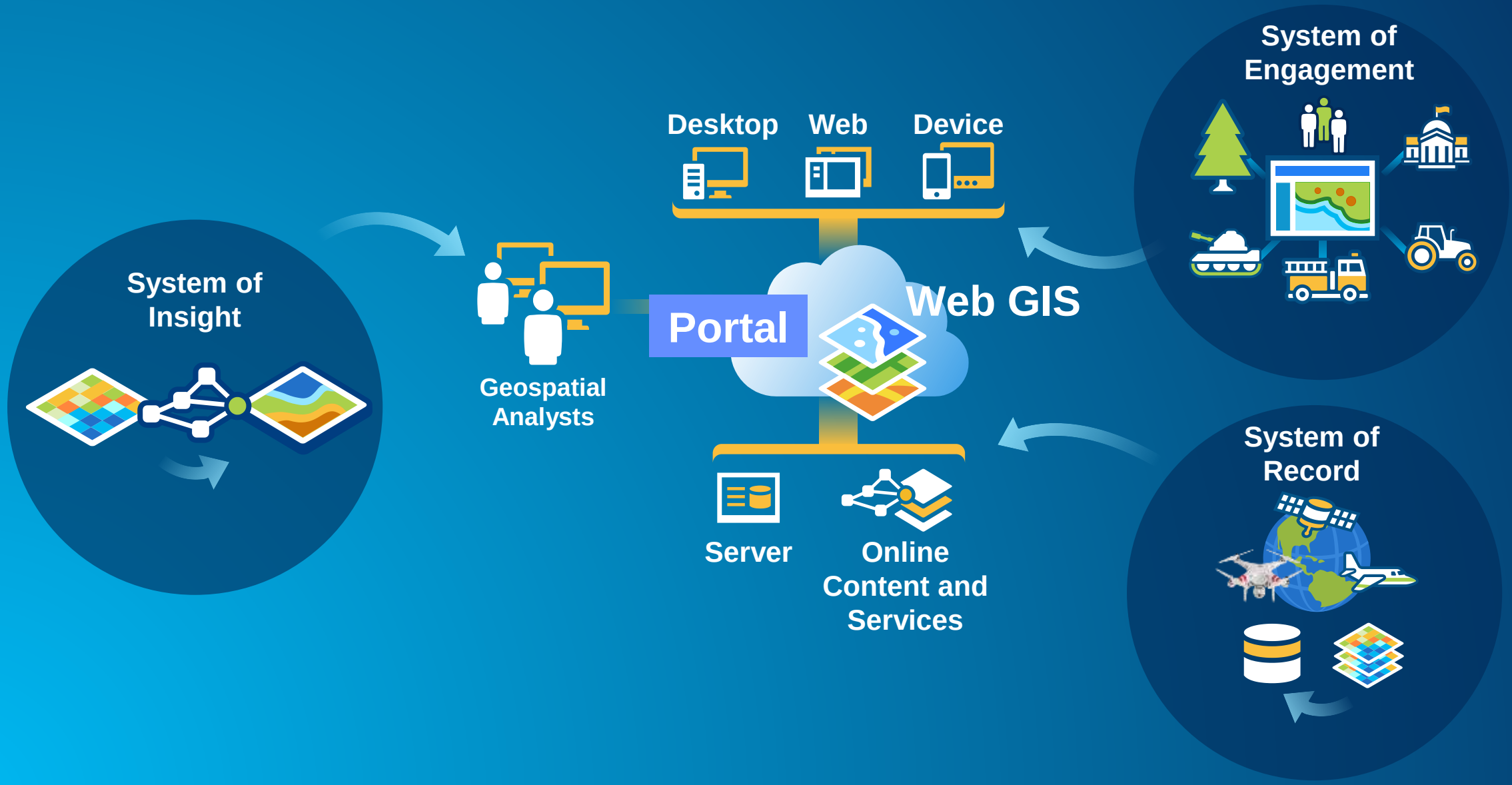
Why are ArcGIS Solutions important to you?

- Limited resources
- Unlimited demands
- Increasing complexity

- Increase the impact of Geography and GIS

ArcGIS Solutions = Your virtual development team, paid for by Esri!

ArcGIS Solutions are part of the ArcGIS Platform



Every city has aspirations for the what they want to become.

A Safe City
With a Focus on Public Safety

A Well Run City
through Government Efficiency

A Livable
and Sustainable City

A Tech Community
and Developer Resources

A Prosperous City
with Economic Development

Those aspirations get translated into actionable, real-world initiatives

Implement Performance Management

Reduce Traffic Congestion

Create More Affordable Housing

Reduce Homelessness

Increase Recreation Opportunities

Improve Water Conservation

Make Parking Easier

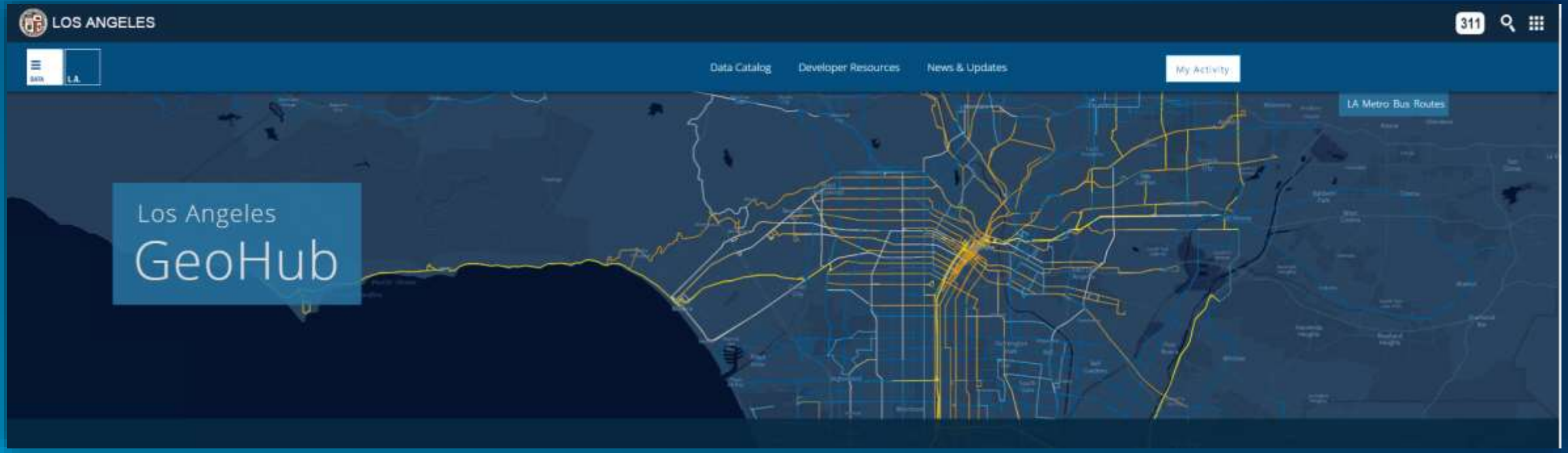
Create Job Availability

Improve Emergency Response Times

Use Less Energy

Encourage Startups

Improve Earthquake Preparedness



Applications

CleanStat

How clean is your street? See how the streets of Los Angeles score in the first-of-its-kind Clean Streets Index.

Open Details

Street Wize

View construction and permit activities under way and coming soon to the streets of Los Angeles.

Open Details

Road to 2400

See road work completed in the city over time.

Open Details

Let's Walk!

Walking is an integral part of every person's day. How can we make it easy and safe to walk in Los Angeles?

Open Details

Demonstration

ArcGIS for Local Government

Public Works

Campus Editing
Campus Place Finder
Citizen Problem Reporter
SnowCOP
My Government Services
Railroad Crossing Inventory
Street Tree Inventory
Street Furniture Inventory
Guardrail Inventory
Pavement Marking Inventory
Road Network Management
Road Closures
Plans and Drawings
Maintenance Agreements
Sidewalk Inventory
Bridge Inventory
Sign Inventory
Signal Inventory
Streetlight Inventory
Public Parking
Capital Project Planning

Land Records

Tax Parcel Editing
Deed Drafter
Public Land Survey Editing
Tax Parcel Map Book
Tax Parcel Viewer
Value Dashboard
Tax Reverted Property
Floodplain Inquiry
Data Reviewer for Parcels

Elections

Election Results
Election Polling Places

Water Utilities

Water Distribution Map
Sewer Network Map
Stormwater Network Map
Water Asset Locator
Model Organization
Network Editing
DR for Water Utilities
Map Change Request
Proposed Water Design
Water Leak Investigator
Utility Isolation Trace
Main Break Notification
Drinking Water Advisory
Outage Viewer
Social Media Sentiment
Capital Planning
Capital Projects
Pavement Coordination
Water Service Request
CSO Outfalls
Sewer Service Lookup
Backflow Inspection
Hydrant Inspection
Valve Exercise
Inlet Inspection
Field Notes
Water Utility Mobile Map
Manhole Inspection
MS4 Inventory
Illicit Discharge
Site Violations
Water Violations
Water Restrictions
Green Infrastructure
Water Conservation
SCADA Processor
Customer Complaints
High/Low Consumption
Water Inventory Reports
CCTV Processor
Nighttime Flow Analysis
Sub DMA
Leak Logger
Pressure Zone Analysis

Planning

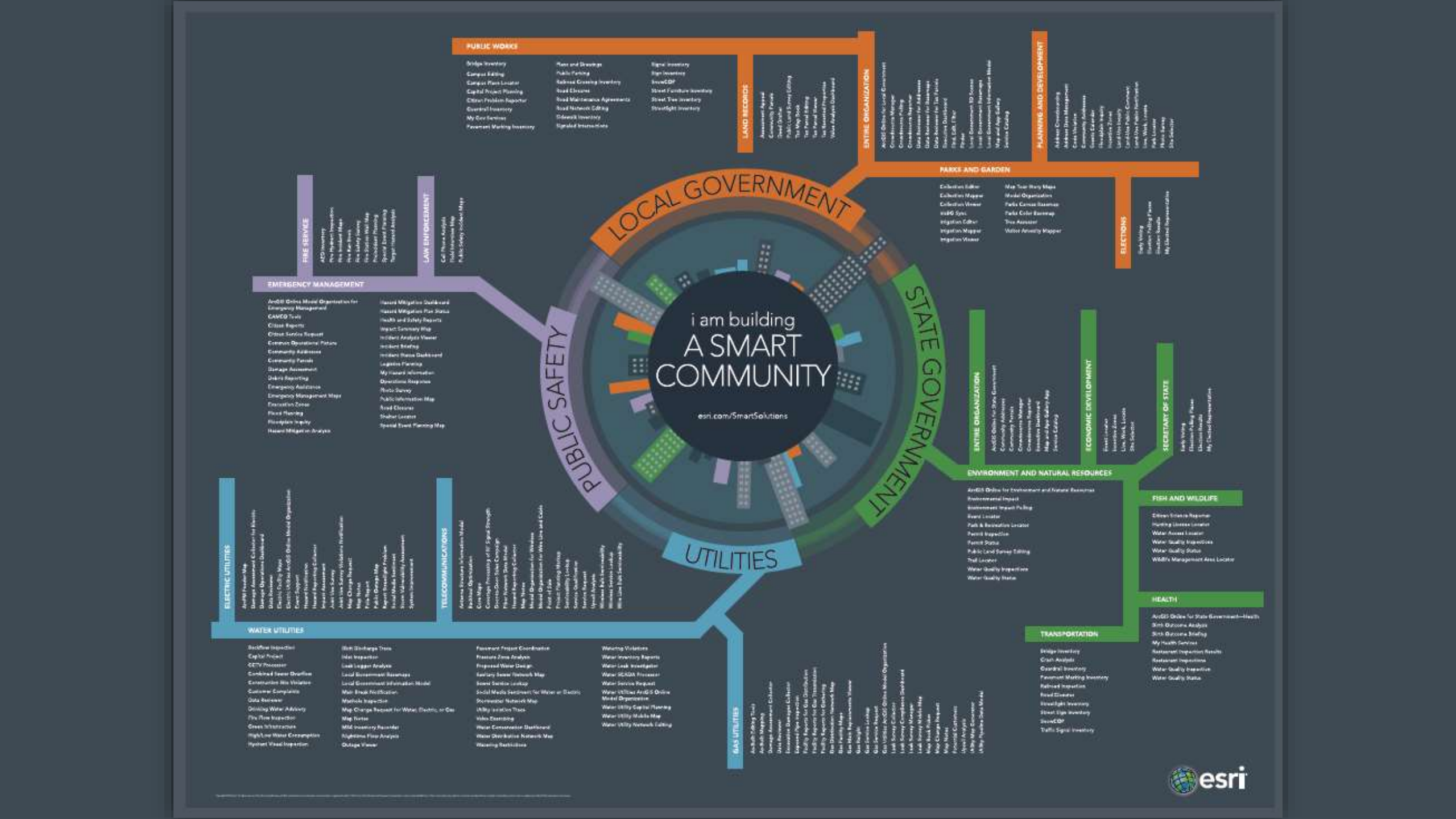
Site Selector
Live, Work, Locate
Park Locator
Address Data Management
Address Crowdsourcing
Data Reviewer for Addresses
Land Use Public Comment
Land Use Public Notification
Code Violation
Events Calendar

Public Safety

Flood Planning
Special Event Planning
Fire Station Wall Map
Fire Run Book
Pre-Incident Planning
AED Inventory
Home Safety Inspection
Target Hazard Analysis
Fire Hydrant Inspection
Cell Phone Analysis
Incident Mapping
Field Interview Card
Public Information Map
Impact Summary Map
Damage Assessment
My Hazard Information
EM Maps
CAMEO Tools
Evacuation Zones
Emergency Assistance
Health and Safety Reports

Local Government

Information Model
Basemaps
Data Reviewer for Basemaps
Executive Dashboard
Briefing Book
Crowdsourcing
Maps and Apps Gallery
Community Parcels
Community Addresses
Model Organization


i am building
A SMART COMMUNITY
esri.com/SmartSolutions
LOCAL GOVERNMENT
PUBLIC WORKS
Bridge Inventory
Campus Editing
Campus Plans Locator
Capital Project Planning
Citizen Problem Reporter
Control Inventory
My Gov Services
Pavement Marking Inventory
Plans and Drawings
Public Parking
Railroad Crossing Inventory
Road Closures
Road Maintenance Agreements
Road Network Editing
Sidewalk Inventory
Signalized Intersections
Signal Inventory
Sign Inventory
SnowCOP
Street Furniture Inventory
Street Tree Inventory
StreetLight Inventory
LAND RECORDS
Assessment Appeal
Community Parcels
Deed Desktop
Public Land Survey Editing
Tax Map Book
Tax Parcel Editor
Tax Parcel Viewer
Tax Reported Properties
Value Analysis Dashboard
ENTIRE ORGANIZATION
ArcGIS Online for Local Government
Condolences Manager
Condolences Publisher
Condolences Reporter
Data Assistant for Addresses
Data Assistant for Hydrants
Data Assistant for Signs
Data Assistant for Tax Parcels
Executive Dashboard
Field Edit Filter
Finder
Local Government 3D Scenes
Local Government Basemaps
Local Government Information Model
Map and App Gallery
Service Catalog
PLANNING AND DEVELOPMENT
Address Coordinating
Address Data Management
Data Validation
Community Conference
County Calendar
Floodplain Study
Inspection Zones
Land Use Inquiry
Land Use Public Comment
Land Use Public Notification
Live Work Locales
Park Locator
Place Naming
Site Selector
PARKS AND GARDEN
Collection Editor
Collection Mapper
Collection Viewer
inBIG Sync
Irrigation Editor
Irrigation Mapper
Irrigation Viewer
Map Tour Story Maps
Model Organization
Parks Census Basemap
Parks Color Basemap
Tree Assessor
Visitor Amenity Mapper
ELECTIONS
Early Voting
Election Polling Places
Election Results
My Elected Representative
PUBLIC SAFETY
EMERGENCY MANAGEMENT
ArcGIS Online Model Organization for Emergency Management
CAMEO Tools
Citizen Reports
Citizen Service Request
Common Operational Picture
Community Addresses
Community Parcels
Damage Assessment
Debris Reporting
Emergency Assistance
Emergency Management Maps
Evacuation Zones
Place Planning
Floodplain Inquiry
Hazard Mitigation Analysis
Hazard Mitigation Dashboard
Hazard Mitigation Plan Status
Health and Safety Reports
Impact Summary Map
Incident Analysis Viewer
Incident Briefing
Incident Status Dashboard
Logistics Planning
My Hazard Information
Operations Response
Photo Survey
Public Information Map
Road Closures
Shelter Locator
Special Event Planning Map
FIRE SERVICE
AED Inventory
Fire Hydrant Inspection
Fire Incident Maps
Fire Run Basis
Fire Safety Survey
Fire Station Wall Map
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Special Event Planning
Target Hazard Analysis
LAW ENFORCEMENT
Cell Phone Analysis
Field Interview Map
Public Safety Incident Maps
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ENTIRE ORGANIZATION
ArcGIS Online for State Government
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Community Parcels
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Event Locator
Inspection Zones
Live, Work, Locate
Site Selector
SECRETARY OF STATE
Early Voting
Election Polling Places
Election Results
My Elected Representative
ENVIRONMENT AND NATURAL RESOURCES
ArcGIS Online for Environment and Natural Resources
Environmental Impact
Environment Impact Polling
Event Locator
Park & Recreation Locator
Permit Inspection
Permit Status
Public Land Survey Editing
Trail Locator
Water Quality Inspections
Water Quality Status
FISH AND WILDLIFE
Citizen Science Reporter
Hunting License Locator
Water Access Locator
Water Quality Inspections
Water Quality Status
Wildlife Management Area Locator
HEALTH
ArcGIS Online for State Government—Health
Birth Outcome Analysis
Birth Outcome Briefing
My Health Services
Restaurant Inspection Results
Restaurant Inspections
Water Quality Inspection
Water Quality Status
TRANSPORTATION
Bridge Inventory
Crash Analysis
Guardrail Inventory
Pavement Marking Inventory
Railroad Inspection
Road Elevator
StreetLight Inventory
Street Sign Inventory
SnowCOP
Traffic Signal Inventory
UTILITIES
ELECTRIC UTILITIES
ArcGIS Feature Map
Damage Assessment Collector for Electric
Damage Operations Dashboard
Data Reviewer
Electric Facility Maps
Electric Utility ArcGIS Online Model Organization
Event Support
Hazard Notification
Hazard Reporting Collector
Impact Assessment
Joint Use Survey
Joint Use Survey Violations Notification
Map Change Request
Map Notes
Pole Report
Public Damage Map
Report Streetlight Problem
Social Media Sentiment
Storm Vulnerability Assessment
System Improvement
TELECOMMUNICATIONS
Antenna Structure Information Model
Backhaul Optimization
Cell Maps
Coverage Processing of RF Signal Strength
Electric Outage Status Campaign
Fiber Network Data Model
Hazard Reporting Collector
Hazard Reporting Dashboard
Map Notes
Model Organization for Wireless
Model Organization for Wireless and Cable
Point of Sale
Private Planning Maps
Serviceability Lookup
Service Request
Signal Analysis
Wireless Data Serviceability
Wireless Service Locator
Wireline Data Serviceability
WATER UTILITIES
Backflow Inspection
Capital Project
CCTV Processor
Combined Sewer Overflow
Construction Site Violation
Customer Complaints
Data Reviewer
Drinking Water Advisory
Fire Flow Inspection
Green Infrastructure
High/Low Water Consumption
Hydrant Visual Inspection
Main Discharge Trace
Main Inspection
Leak Logger Analysis
Local Government Basemaps
Local Government Information Model
Main Break Notification
Manhole Inspection
Map Change Request for Water, Electric, or Gas
Map Notes
MS4 Inventory Recorder
Nighttime Flow Analysis
Outage Viewer
Pavement Project Coordination
Pressure Zone Analysis
Proposed Water Design
Sanitary Sewer Network Map
Sewer Service Lookup
Social Media Sentiment for Water or Electric
Stormwater Network Map
Utility Location Trace
Video Assessing
Water Conservation Dashboard
Water Distribution Network Map
Watering Restrictions
Watering Violations
Water Inventory Reports
Water Leak Investigator
Water SCADA Processor
Water Service Request
Water Utilities ArcGIS Online Model Organization
Water Utility Capital Planning
Water Utility Mobile Map
Water Utility Network Editing
GAS UTILITIES
ArcGIS Editing Tools
ArcGIS Mapping
Damage Assessment Collector
Data Reviewer
Excavation Damages Collector
Expansion Pipe Inspection
Finding Reports for Gas Distribution
Finding Reports for Gathering
Finding Reports for Transmission
Gas Distribution Network Map
Gas Feature Maps
Gas Main Replacements Viewer
Gas Reliability
Gas Service Locator
Gas Service Request
Gas Utilities ArcGIS Online Model Organization
Leak Survey Collector
Leak Survey Compliance Dashboard
Leak Survey Manager
Leak Survey Mobile Map
Map Book Printer
Map Change Request
Map Notes
Priority Customers
Spool Analysis
Utility Map Generator
Utility Network Data Model
esri

Categorization of ArcGIS Solutions

Industries
Local Government
State Government
Parks and Gardens
Electric
Gas
Water
Telecommunications
Emergency Management
Defense

Products/Applications
ArcGIS for Desktop
ArcGIS Runtime
Collector for ArcGIS
ArcGIS Maps for Office
GeoEvent Extension
Operations Dashboard for ArcGIS
Web AppBuilder for ArcGIS
Template Web Applications
Model Organization

Implementation Patterns
Data Management
Field Mobility
GeoEnablement
Operational Awareness
Planning and Analysis
Community Engagement

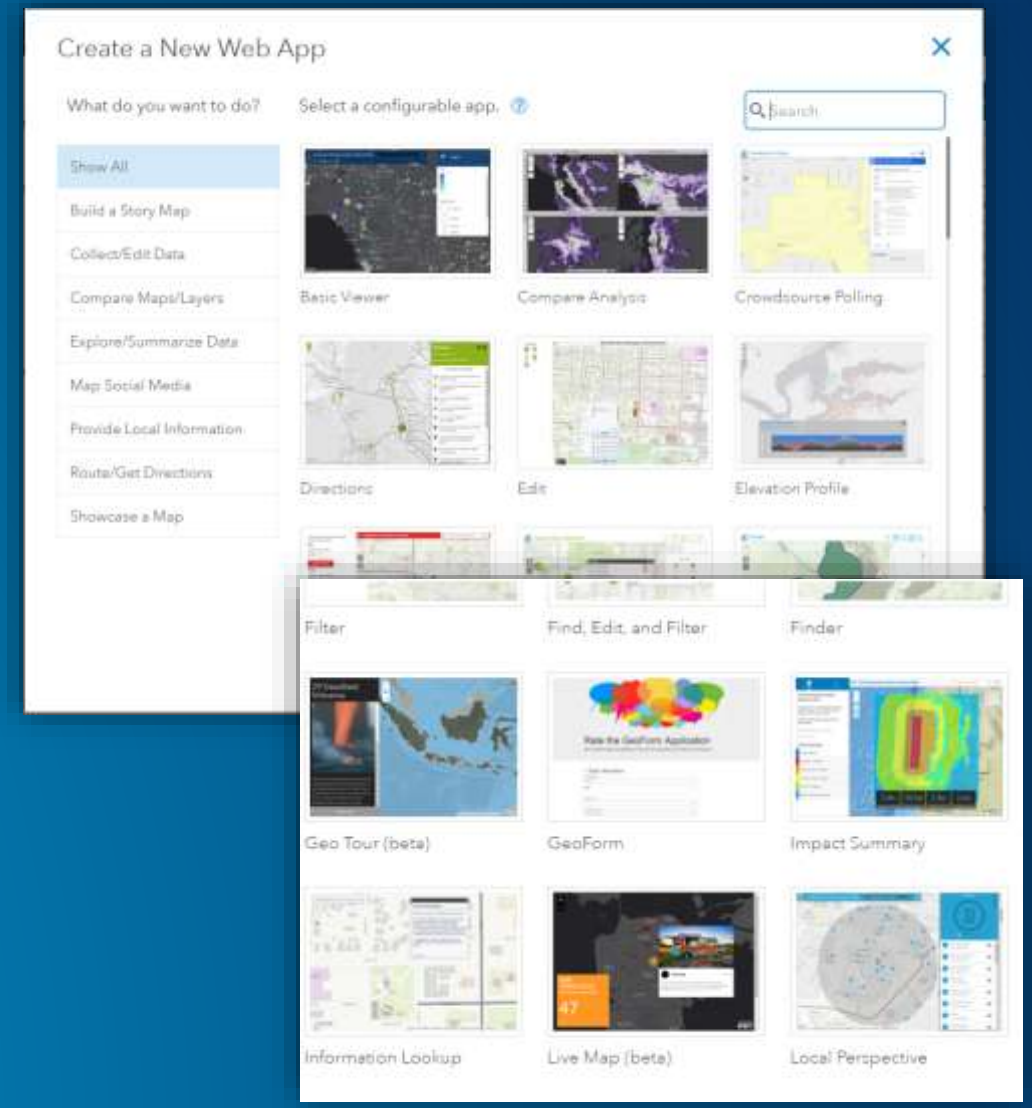
Categorization of ArcGIS Solutions – Workflows & Multi-Purpose Apps

Workflows
Photo Survey + Citizen Reporter + Problem Management + Operations Dashboard
Collector + Operations Dashboard + Story Maps
Citizen Problem Reporter + Citizen Problem Management + Citizen Problem Dashboard

Multi-Purpose Apps
Collector for ArcGIS
Operations Dashboard for ArcGIS
Photo Survey
Adopta (Added September, 2016)
Citizen Problem Reporter + Citizen Problem Management + Citizen Problem Dashboard
Park/Events/Shelter Locator
Template Web Apps (e.g. Directions, Local Perspective, GeoForm)
Web AppBuilder widgets (e.g. Near Me)
Story Maps

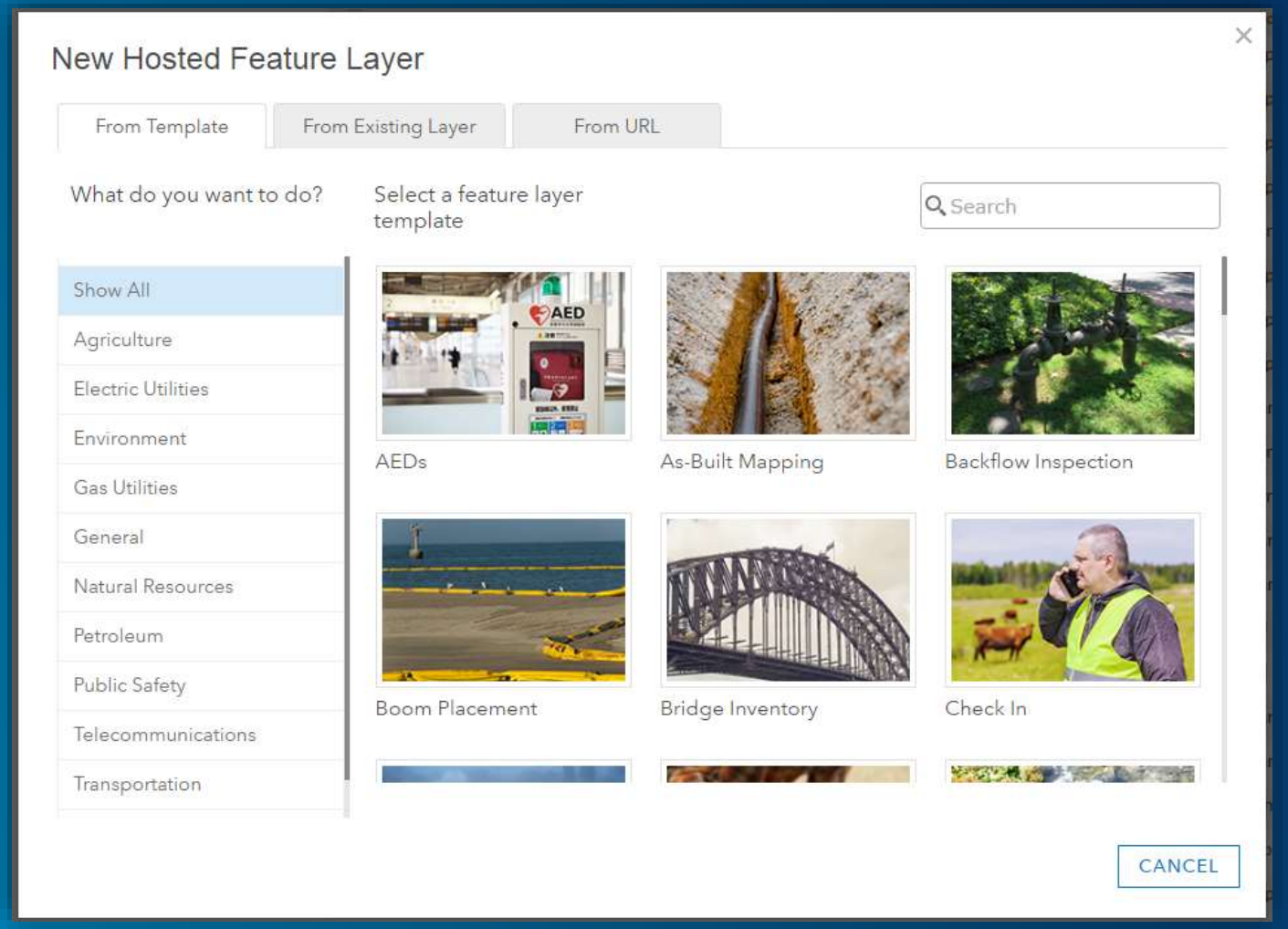
Template Web Apps

- ArcGIS Online includes 29 template web apps
- Used by some ArcGIS Solution apps
- Do not require Local Government Information Model schema
- Most templates use responsive design
  - Will work on any screen size/device



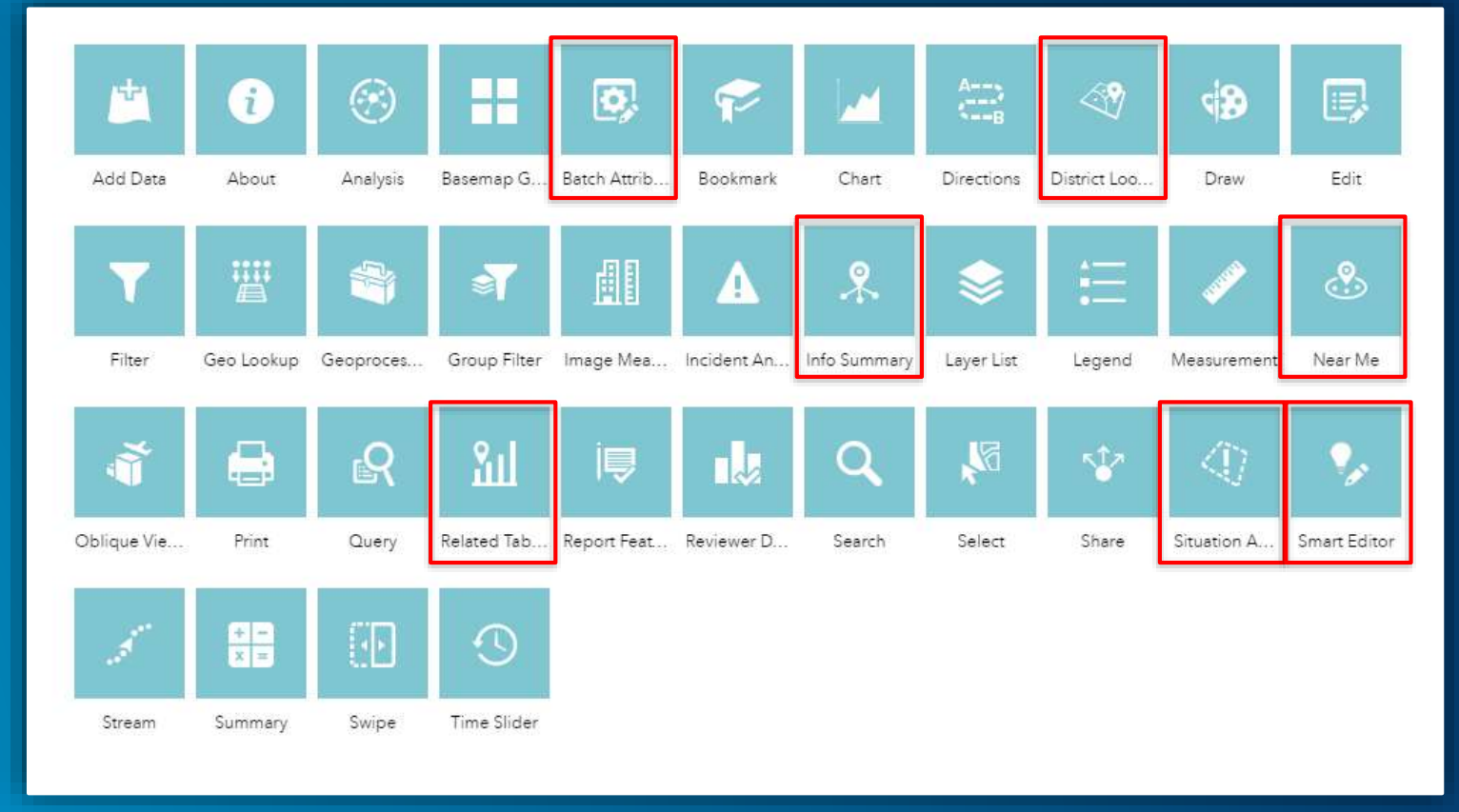
Collector for ArcGIS and Hosted Feature Layer templates

- ArcGIS Online includes 56 Hosted Feature Layer templates
- To create go to My Content > Create > Feature Layer
- Includes complete schema
- Useful for rapid development of layers and web maps for use with Collector for ArcGIS



Web AppBuilder Widgets

- Many Solutions are based on Web AppBuilder Widgets
- Custom widgets
  - require WAB Developer Edition
- Off-the-shelf widgets
  - available via ArcGIS Online, Portal for ArcGIS

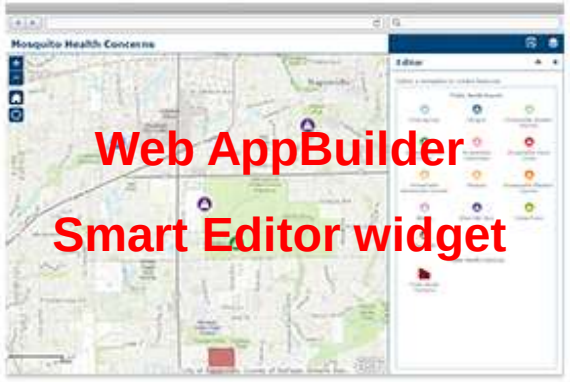


Widgets as of September, 2016

Examples of Solutions using Web AppBuilder Widgets

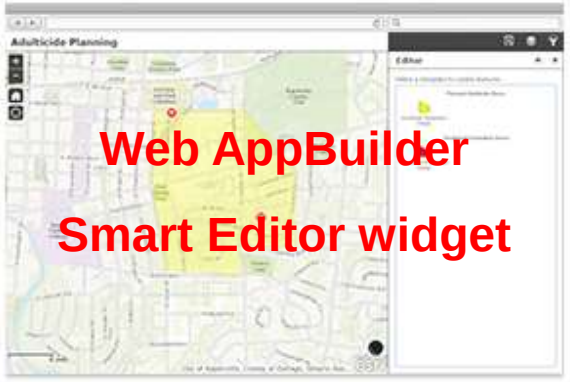
Widget	Custom Widget?	Solutions
Adopta	Yes	Adopt a Catch Basin / Hydrant / Park
District Lookup	No	Election Polling Places, School Locator
Info Summary	No	Transportation 511 (Road Conditions)
Near Me	No	Early Voting, My Government Services, Mosquito Spray Areas, My Health Services, My Hazard Information, AED Locator
Network Trace	Yes	Utility Discharge Trace, Illicit Discharge Trace
ParcelDrafter	Yes	Parcel Drafter
Related Table Charts	No	Election Results
Service Feasibility	Yes	Service Qualification, Point of Sale
Situation Awareness	No	Situational Awareness Viewer, Operations Response, Logistics Planning
Smart Editor	No	Mosquito Adulticide Planning, Mosquito Health Concerns, Events Coordination, Events Site Map

Mosquito Control - Example of Workflow and Muli-Purpose Apps



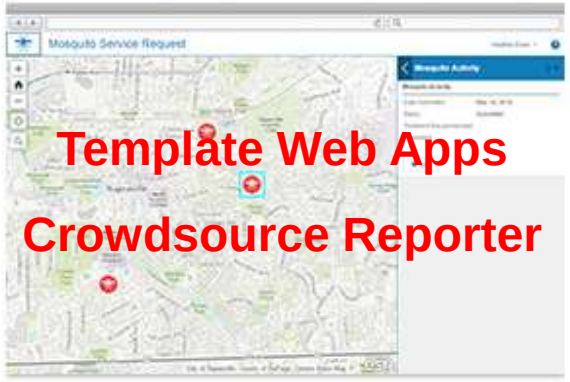
Mosquito Health Concerns

Local Government



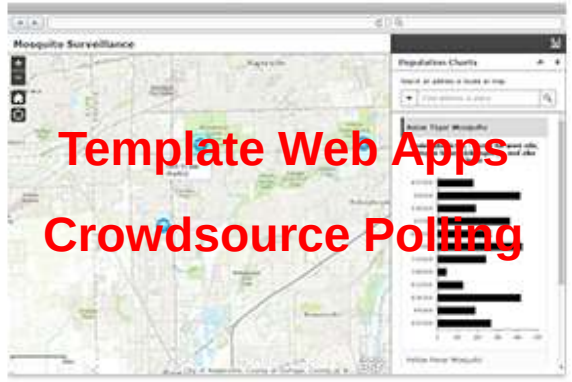
Mosquito Adulticide Planning

Local Government



Mosquito Service Request

Local Government



Mosquito Population Surveillance

Local Government

Mosquito Spray Exclusions

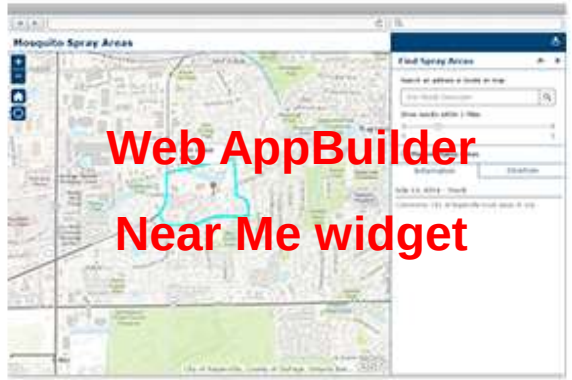
Local Government

Mosquito Field Operations

Local Government

Mosquito Larvicide Reporting

Local Government



Mosquito Spray Areas

Local Government

Gallery

Search Solutions Gallery

Show Me

All

Industries

- Local Government
- State Government
- Parks and Gardens
- Electric
- Gas
- Water
- Telecommunications
- Emergency Management
- Defense

Products/Applications

- ArcGIS for Desktop
- ArcGIS Runtime
- Collector for ArcGIS

All Industries

ArcGIS Industry Specific Maps and Apps: ArcGIS Solutions deliver Ready-to-Use Maps and Apps to jumpstart your work.

Historical Election Results

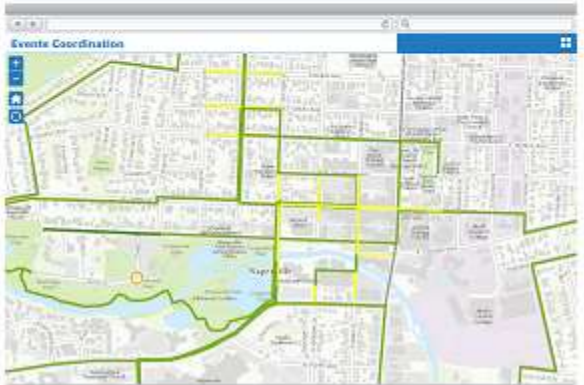
State Government

Collection Viewer

Parks and Gardens

Service Feasibility Widget

ArcGIS Solutions



Demonstration

ArcGIS for Local Government ▾ GALLERY COMMUNITY DOCUMENTATION SEARCH esri

Photo Survey

Home | Get Started

Overview

Photo Survey is a configuration of ArcGIS and a JavaScript application that can be used by local governments to publish street-level photo collections and conduct focused property surveys that may identify blight, damaged structures, or construction activity.

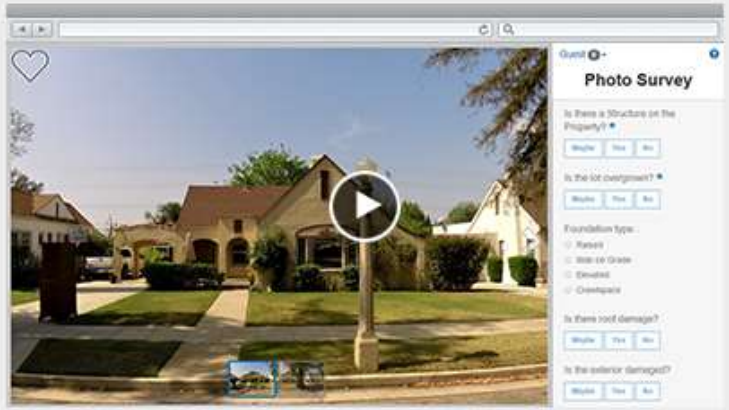


Photo Survey leverages location-enabled photos produced by many commercially available cameras and simplifies data processing so street-level photo collections can be gathered on a regular basis. Photo collections can then be combined with relevant survey questions in an ArcGIS Online map, and shared with the Photo Survey application. Once complete, the Photo Survey application can be used by the general public and/or local government staff to review street-level photos and complete property surveys.

REQUIREMENTS | WHAT YOU GET | WHAT'S NEW | DOWNLOAD | TRY IT NOW

Photo Survey
Local Government

Wildlife Photo Survey
State Government

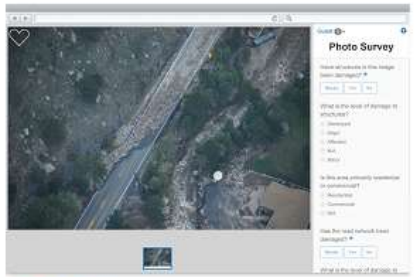


Photo Survey
Emergency Management

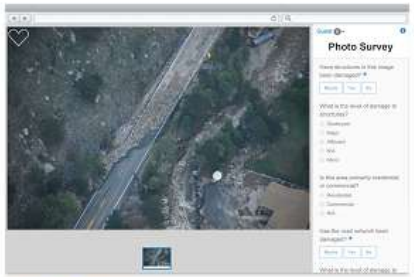
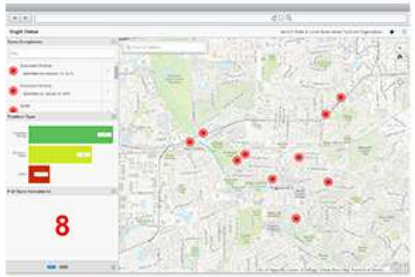
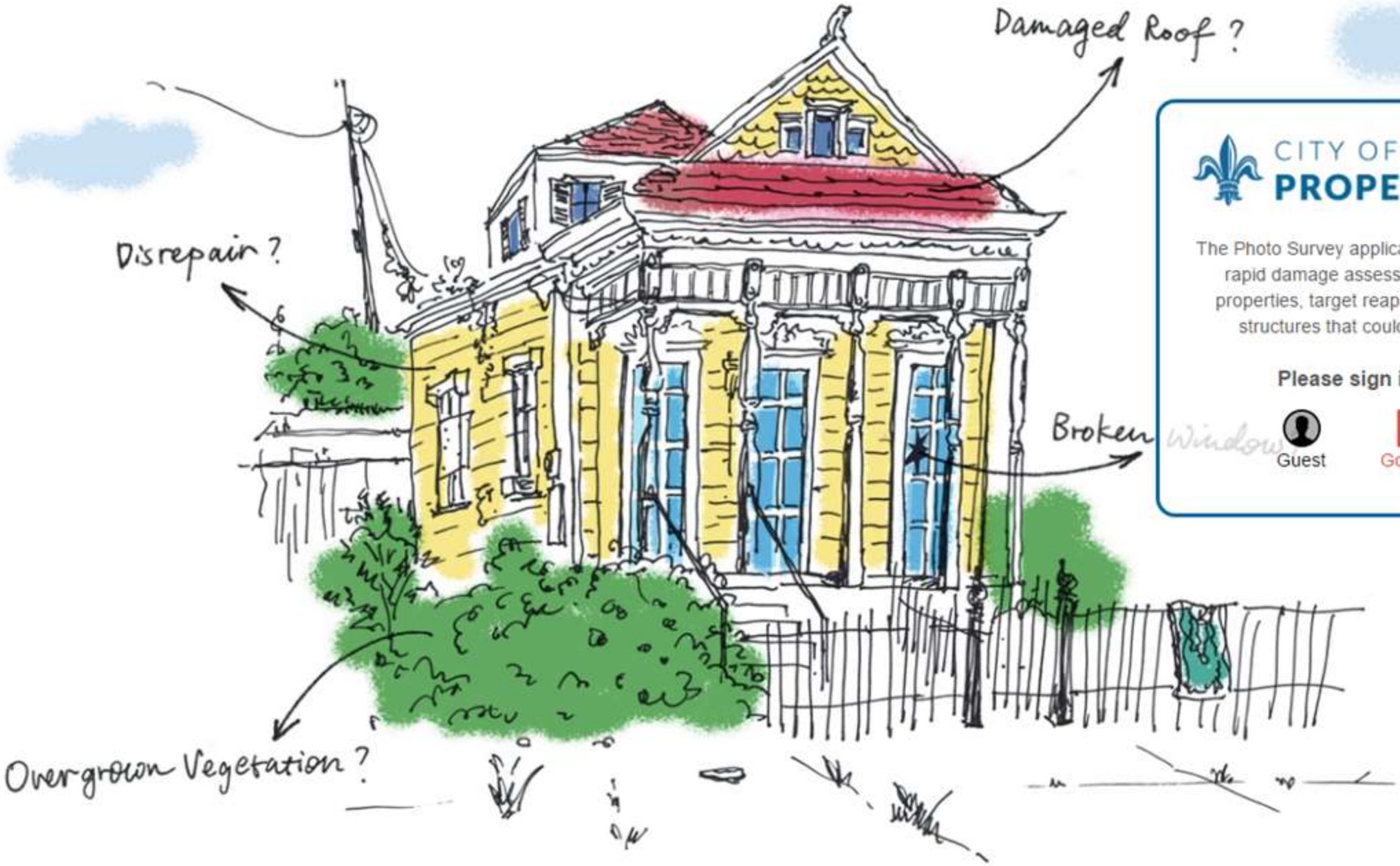


Photo Survey
State Government



Blight Status
Local Government



CITY OF NEW ORLEANS
PROPERTY SURVEY

The Photo Survey application can be used to conduct rapid damage assessments, inventory blighted properties, target reappraisal efforts, and identify structures that could pose safety concerns.

Please sign in to get started

Guest | Google+ | Twitter

Gallery

blight

Show Me

All

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- State Government
- Parks and Gardens
- Electric
- Gas
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- Defense

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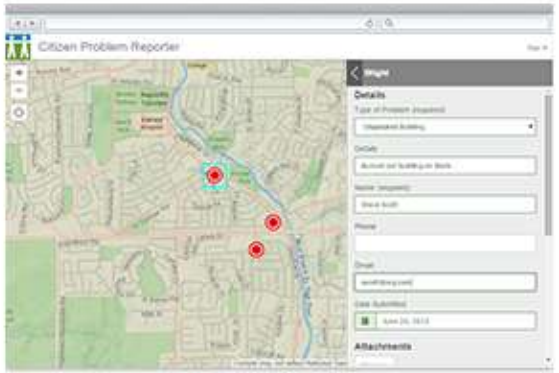
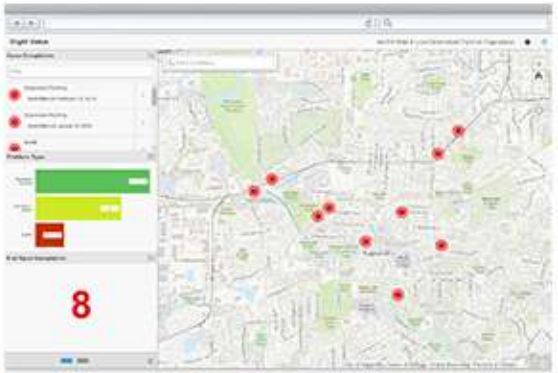
Photo Survey

Local Government



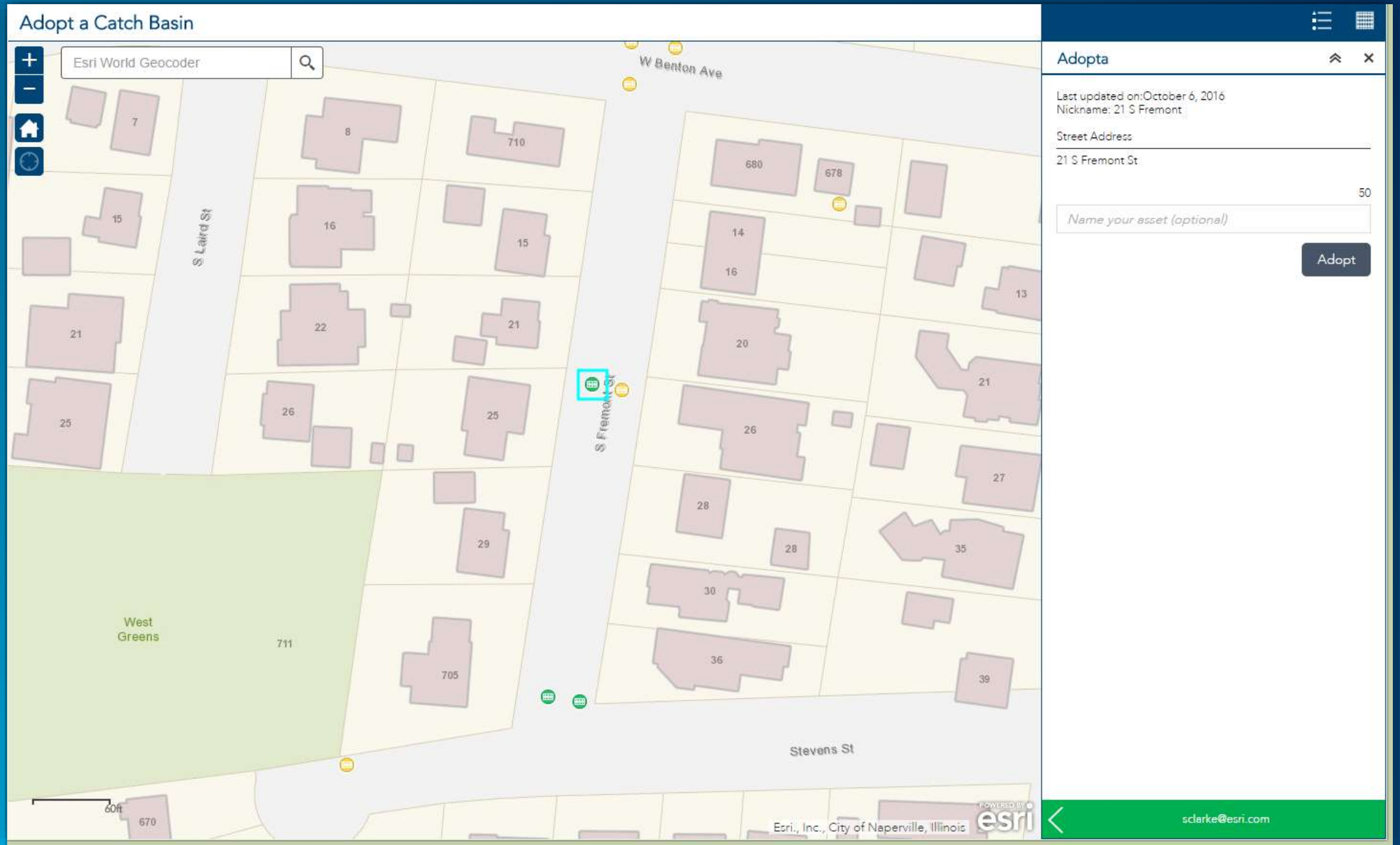
Citizen Problem Reporter

Local Government



Blight Status

Local Government


Adopt a Catch Basin
Esri World Geocoder
W Benton Ave
S Laird St
S Fremont St
Stevens St
West Greens
711
7
8
710
680
678
15
16
15
14
16
13
21
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30
36
705
39
60ft
670
Esri, Inc., City of Naperville, Illinois
Adopta
Last updated on:October 6, 2016
Nickname: 21 S Fremont
Street Address
21 S Fremont St
50
Name your asset (optional)
Adopt
sclarke@esri.com

ArcGIS Apps for the Field

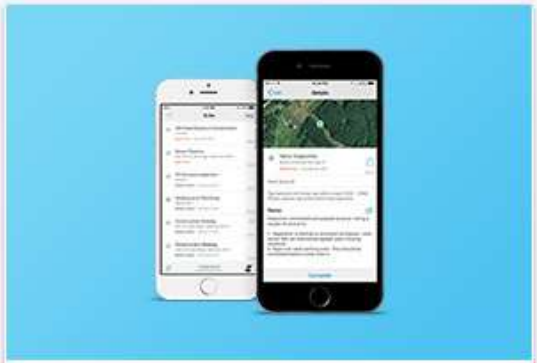
Maximize the efficiency of your field workforce.

Collector for ArcGIS

Navigator for ArcGIS

Operations Dashboard for ArcGIS

Explorer for ArcGIS



Workforce for ArcGIS

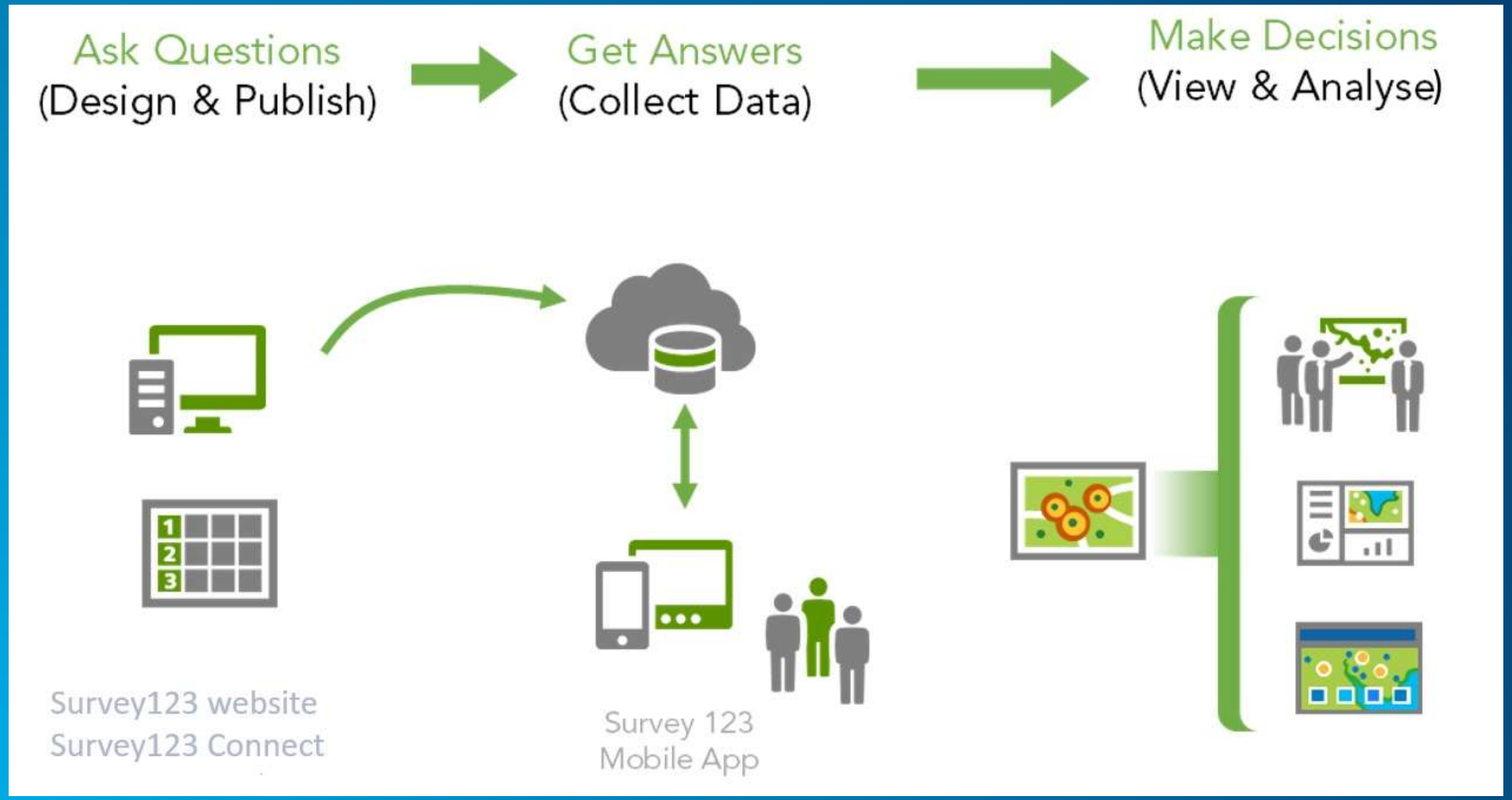
Survey123 for ArcGIS

http://www.arcgis.com/features/apps/index.html

Survey123 for ArcGIS

Form-centric data collection

Survey123 for ArcGIS



https://survey123.arcgis.com/

ArcGIS Apps for the Office

Make smarter, faster decisions in the office.

http://www.arcgis.com/features/apps/index.html

ArcGIS Apps for the Community

Share information and crowdsource ideas.

Esri Story Maps

ArcGIS Open Data

Configurable Apps

Quick Report Template

Crowdsource Reporter

Crowdsource Manager

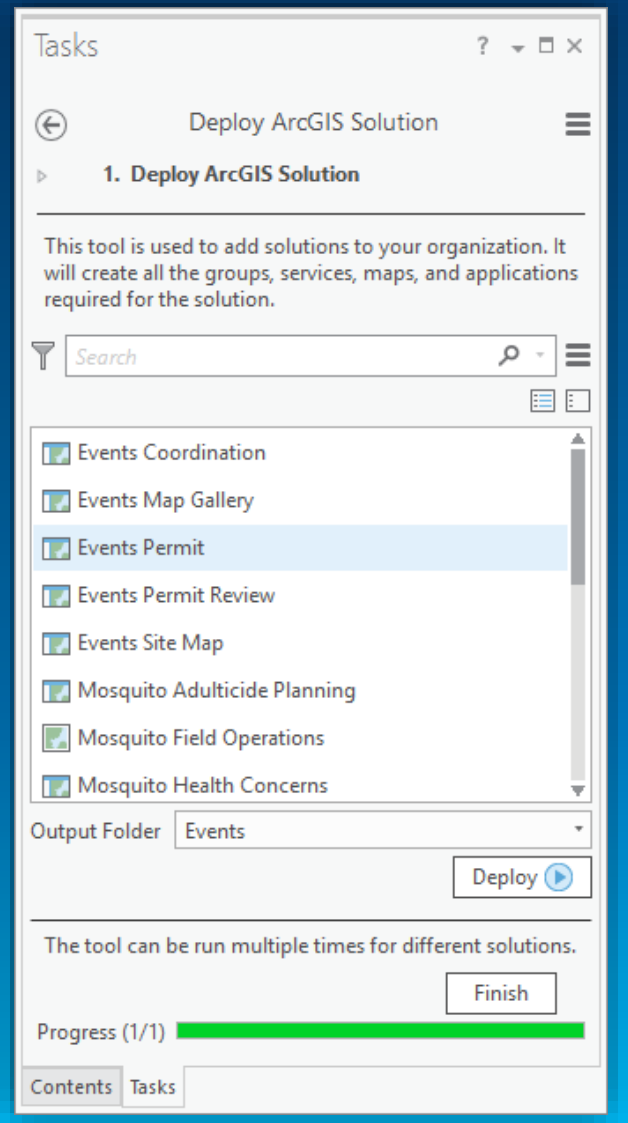
Crowdsource Polling

Photo Survey

http://www.arcgis.com/features/apps/index.html

Solution Deployment Tool

- ArcGIS Pro tasks and tools
  - Discover, deploy and configure solutions in an ArcGIS Organization
- Help users:
  - Discover solution offerings available
  - Deploy the services, maps, and configurable apps to their organization
  - Configure the solution to meet specific needs in their organization
    - Add/Remove fields
    - Modify field domains and aliases
  - Load their data (if required)
- Works with ArcGIS Pro 1.4 and 1.3



The ArcGIS Solutions pattern has changed

LGIM released October, 2011

- Initially
  - Solutions required Local Government Information Model (LGIM)
  - Consisted of custom apps
  - Apps needed to be hosted on your own infrastructure (not ArcGIS Online)
- Today
  - Many Solutions don’t require LGIM (or have minimal LGIM requirement)
  - Most Solutions consist of
    - Configurations for COTS apps
      (Collector for ArcGIS, Operations Dashboard for ArcGIS, Story Maps, etc)
    - Configurations of template web apps
    - Configurations of Web AppBuilder for ArcGIS (using standard and/or custom widgets)
  - Many apps can also be hosted in portal (ArcGIS Online/Portal for ArcGIS)
  - Include many end-to-end workflows with multiple maps and apps

Considerations

- Understanding the current ArcGIS Solutions provides flexible methods for meeting a variety of needs – without developing custom apps
- ArcGIS Solutions consists of 332* real solutions, developed in collaboration with real customers, to meet real needs
- Many of these needs must also exist at your city/county/organization
- Every city/county/organization has finite developer resources
- ArcGIS Solutions enables your city/county/organization to meet unmet needs – without requiring developer resources
- ArcGIS Solutions are great for rapid app development and proof-of-concept
- Source code for apps available on GitHub (http://esri.github.io/#Local-Government)

* As of October, 2016

Next steps

- Which of the ArcGIS Solutions correspond with current app needs in your city/county/organization?
- How can Esri help to deploy these apps?

- Keep up-to-date with new and updated apps, and Web AppBuilder updates in conjunction with ArcGIS Online updates: https://blogs.esri.com/esri/arcgis/

Thank you!

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