ArcGIS Solutions

Real-world maps and apps to jumpstart your work

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ArcGIS Industry Specific Maps and Apps

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

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
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.
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
- Reduce Homelessness
Applications

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

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

Road to 2400
See road work completed in the city over time.

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?
Demonstration
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

<table>
<thead>
<tr>
<th>Workflows</th>
<th>Multi-Purpose Apps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photo Survey + Citizen Reporter + Problem Management + Operations Dashboard</td>
<td>Collector for ArcGIS</td>
</tr>
<tr>
<td>Collector + Operations Dashboard + Story Maps</td>
<td>Operations Dashboard for ArcGIS</td>
</tr>
<tr>
<td>Citizen Problem Reporter + Citizen Problem Management + Citizen Problem Dashboard</td>
<td>Photo Survey</td>
</tr>
<tr>
<td></td>
<td>Adopta (Added September, 2016)</td>
</tr>
<tr>
<td></td>
<td>Citizen Problem Reporter + Citizen Problem Management + Citizen Problem Dashboard</td>
</tr>
<tr>
<td></td>
<td>Park/Events/Shelter Locator</td>
</tr>
<tr>
<td></td>
<td>Template Web Apps (e.g. Directions, Local Perspective, GeoForm)</td>
</tr>
<tr>
<td></td>
<td>Web AppBuilder widgets (e.g. Near Me)</td>
</tr>
<tr>
<td></td>
<td>Story Maps</td>
</tr>
</tbody>
</table>
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
## Examples of Solutions using Web AppBuilder Widgets

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

- Web AppBuilder Smart Editor widget
- Web AppBuilder Smart Editor widget
- Template Web Apps Crowdsource Reporter
- Template Web Apps Crowdsource Polling
- Template Web Apps Geoform
- Collector for ArcGIS
- Collector for ArcGIS
- Web AppBuilder Near Me widget
All Industries

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

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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

Survey123 for ArcGIS

Form-centric data collection
Survey123 for ArcGIS

Ask Questions (Design & Publish) → Get Answers (Collect Data) → Make Decisions (View & Analyse)

Survey123 website
Survey123 Connect
Survey 123 Mobile App
ArcGIS Apps for the Office
Make smarter, faster decisions in the office.

ArcGIS Apps for the Community
Share information and crowdsource ideas.

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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