

Building Routing Applications with ArcGIS Online

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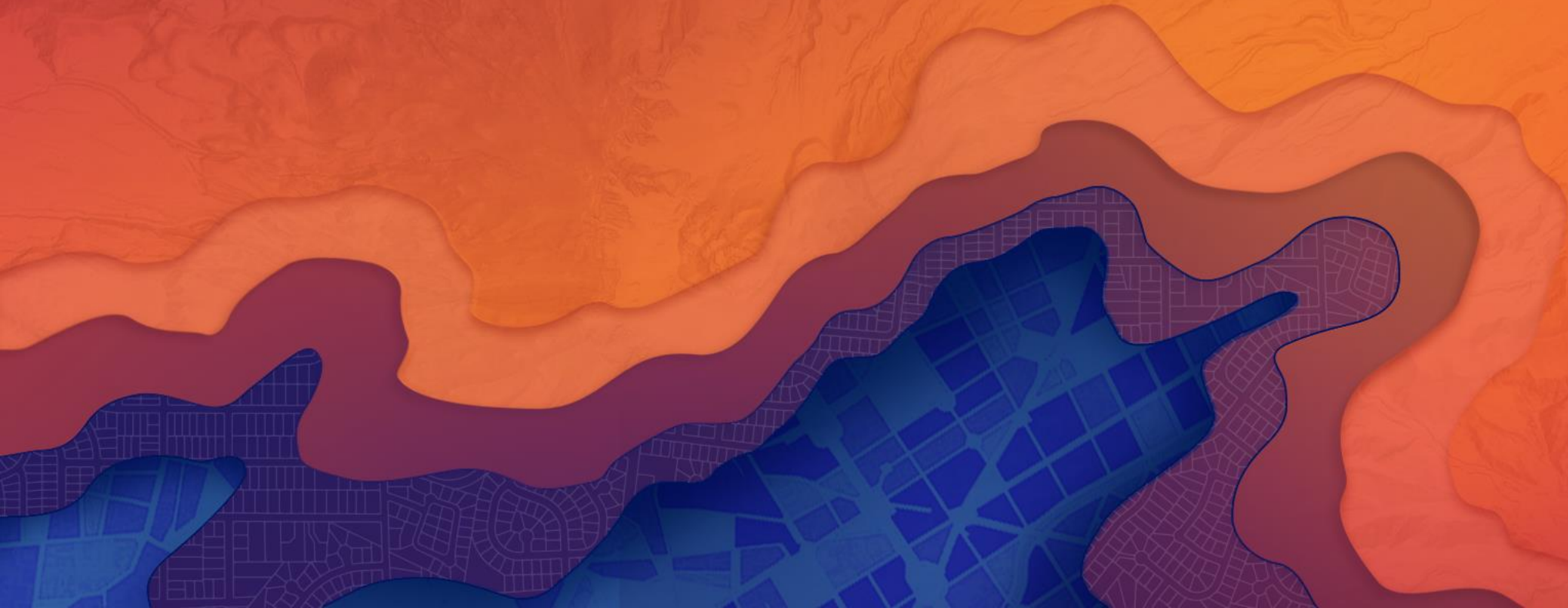
Slides from this technical workshop

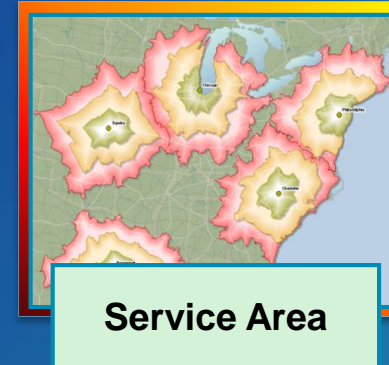
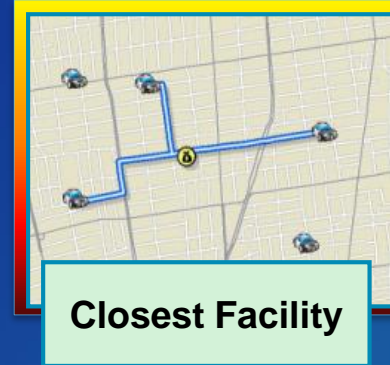
<http://esriurl.com/uc17brago>

Agenda

- Directions and routing services
- Creating web apps with ArcGIS
 - Configurable application templates
 - Story maps
 - Web AppBuilder for ArcGIS

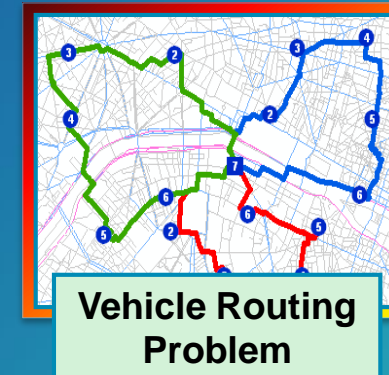
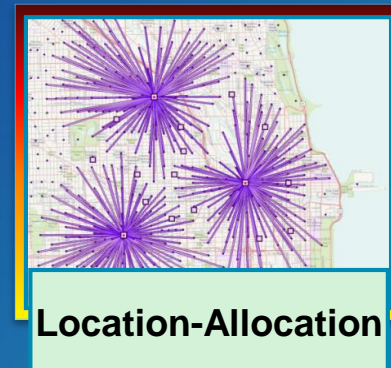
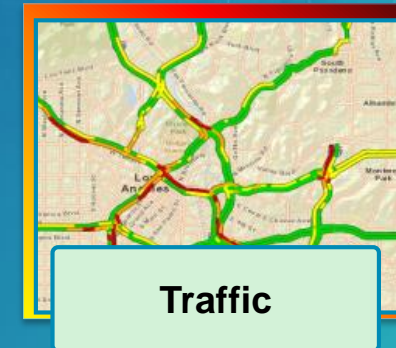
Directions and Routing services





Directions and Routing Services

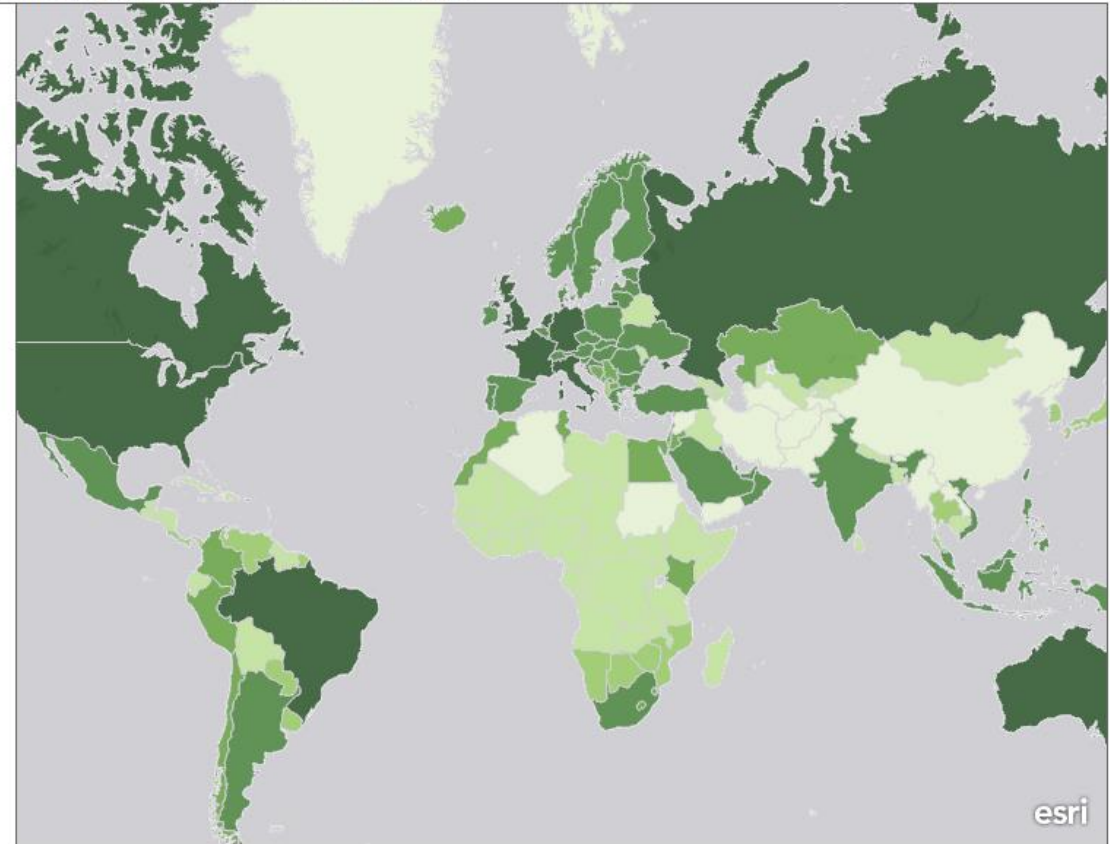
Perform analyses on street networks



Common to all Services

- Work globally
- Use high quality street data
 - Predictive and real time traffic where available
 - Support for vehicle weight, width and height restrictions
 - Can use preferred truck routes or avoid toll roads
- Driving, Walking, Trucking, or your own travel modes

ArcGIS Online Directions and Routing Services Coverage



This map shows which countries are partially or fully covered by ArcGIS Online's directions and routing services.

Esri, HERE, Garmin, NGA, USGS | Esri and HERE | Esri

[View larger map](#)

Services are also available with ArcGIS Enterprise

- All the Directions and Routing services are also available with ArcGIS Enterprise
 - Requires ArcGIS Enterprise 10.4 or later
 - Do not work globally but restricted to the extent of your street data
 - No support for live traffic
- [Tools and instructions](#) on how to publish routing services are available

Creating web apps with ArcGIS

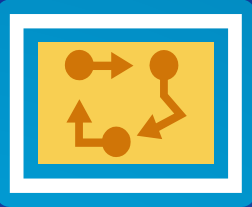


Creating web apps with ArcGIS

Configure, customize, or build apps from scratch



Story maps



Configurable
app templates



Web AppBuilder for ArcGIS®

No programming



Web AppBuilder
custom widgets
and themes



Build apps using
ArcGIS API for JavaScript

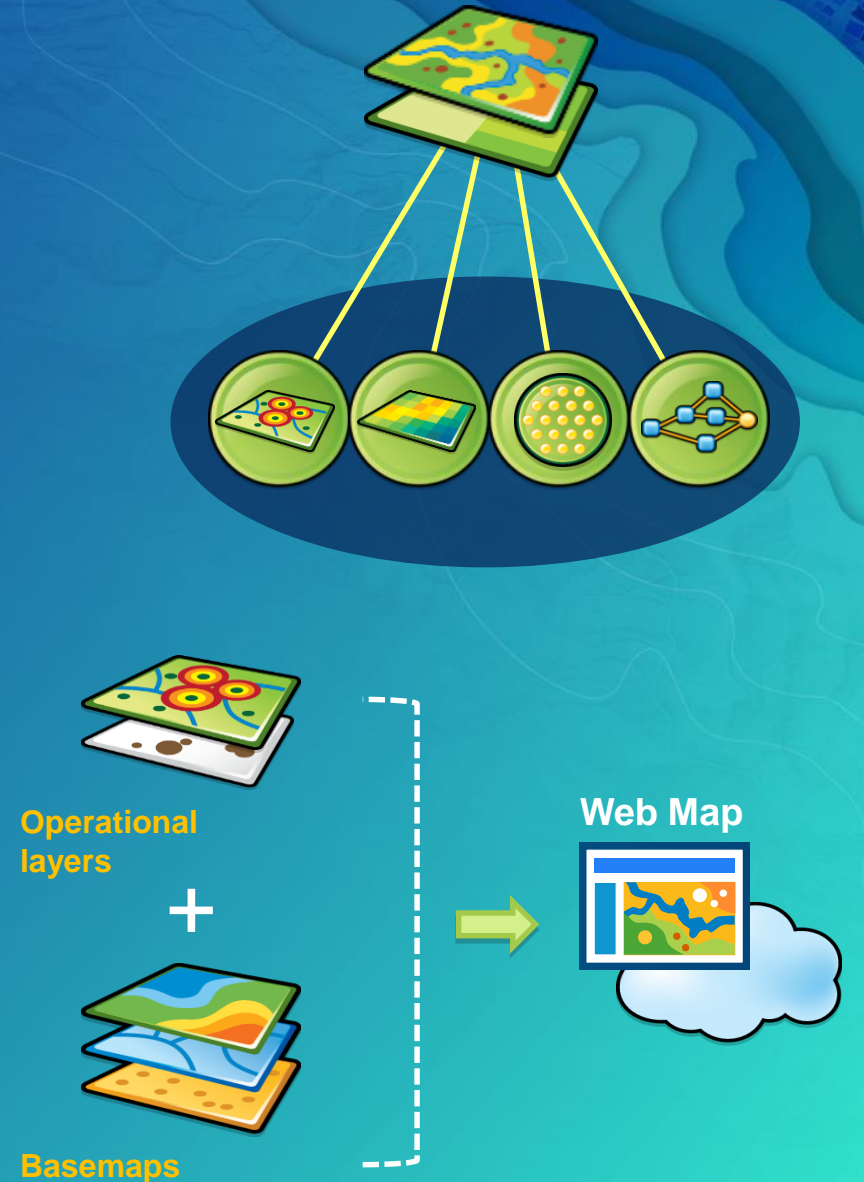
Programming effort



What is a web map?

Foundation for all your apps

- Enables “intelligent maps” → Web Map stores references to web services and data, display and behavior settings
- Supports: smart mapping, pop-ups, editing, analysis, time, etc.
- Create in ArcGIS Online/Portal for ArcGIS Map Viewer
- **Can be leveraged by all other Esri Apps**



Story maps

Useful for explaining and sharing your analysis results

- Manage at <https://storymaps.arcgis.com>
 - Choose from a variety of templates such as Story Map Series
- Useful for describing your analysis
 - Perform your analysis in Map Viewer and share the results as story maps

Presenting a Series of Maps



Story Map SeriesSM - Tabbed Layout

Present a series of maps via a set of tabs. There's an optional description panel for presenting text and other content associated with each map.

[BUILD](#)[OVERVIEW](#)[GALLERY](#)[TUTORIAL](#)[FAQS](#)

Story Map SeriesSM - Side Accordion Layout

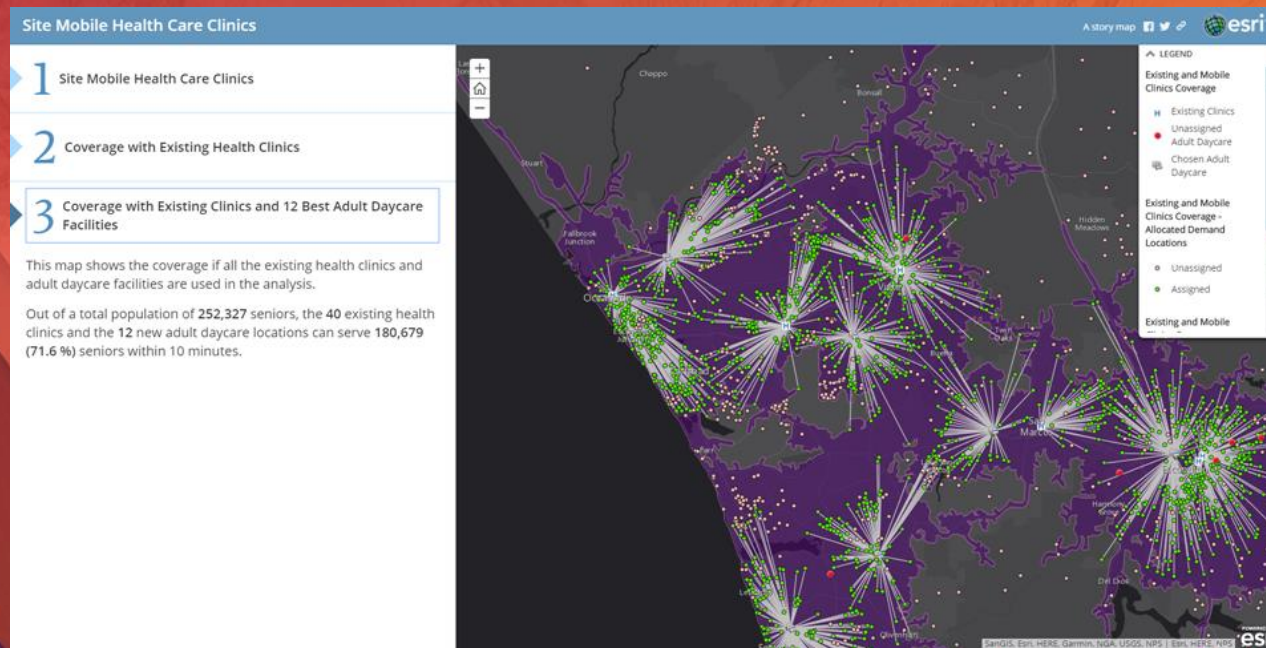
Present a series of maps, and accompanying text and other content for each map, in an expandable panel. Clicking a title selects the map and expands the panel to reveal the text.

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Story Map SeriesSM - Bulleted Layout

Present a series of maps via numbered bullets, one map per bullet. It's a good choice when you have a large number of maps or locations to present. There's an optional description panel for presenting text and other content associated with each map.

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Demo

Story map

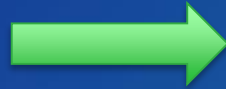
Site mobile health care clinics
story map

Configurable app templates

Quickly transform your web map into a focused app



Web Map



Create a New Web App

Configurable Apps

Web AppBuilder

What do you want to do?

Select a configurable app.

Search

Show All

Build a Story Map

Collect/Edit Data

Compare Maps/Layers

Explore/Summarize Data


Map Social Media

Provide Local Information


Route/Get Directions

Showcase a Map

Provide routing directions to features within your map



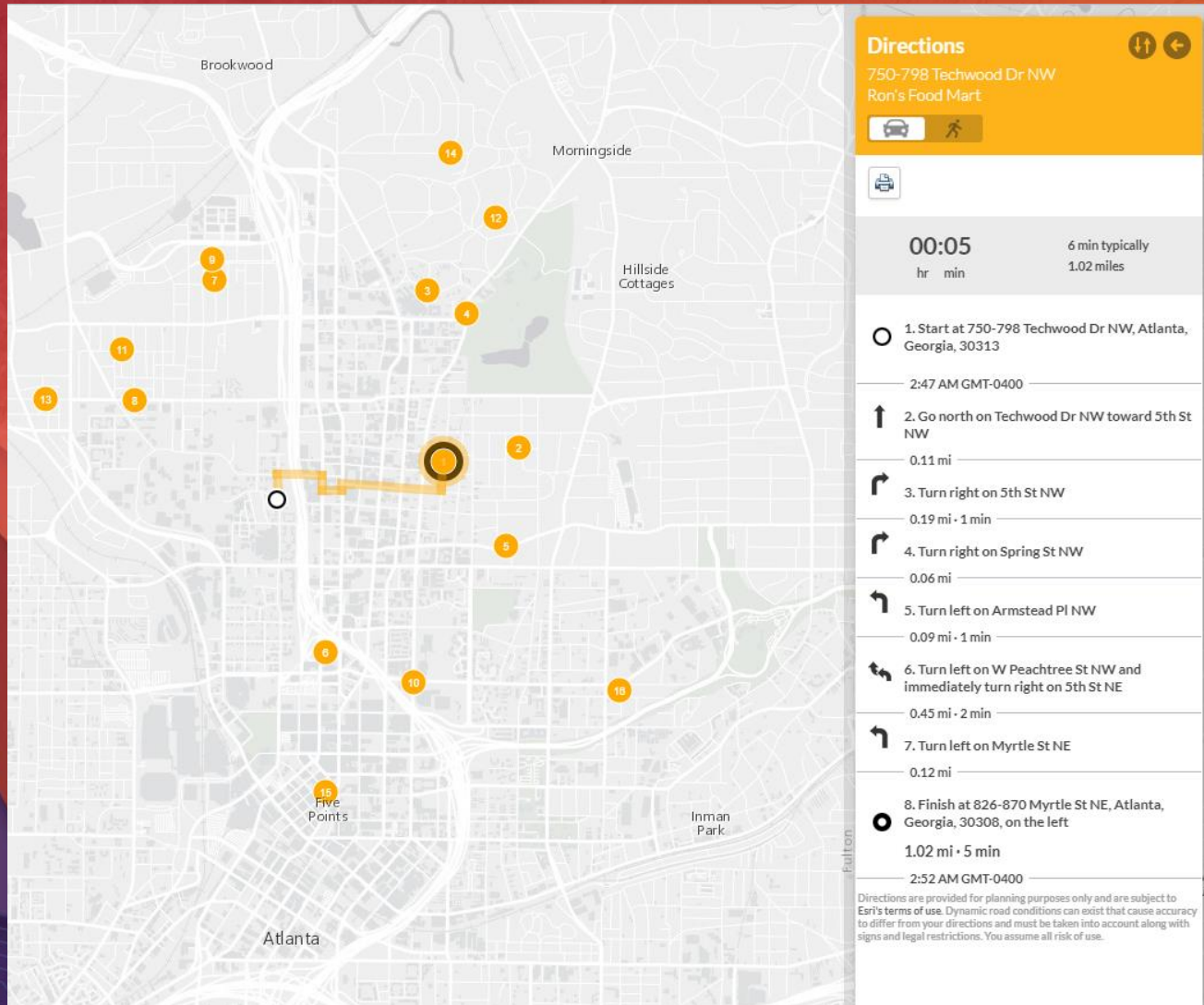
Directions



Local Perspective

BACK

CANCEL



Demo

Store Locator

Create a store locator app using
configurable app template

Web AppBuilder

Build powerful GIS apps that run on any device



Web Map



Create a New Web App

Configurable Apps

Web AppBuilder

To create a new app with Web AppBuilder, enter a title, tags and summary.

Title:

Tags: Add tag(s)

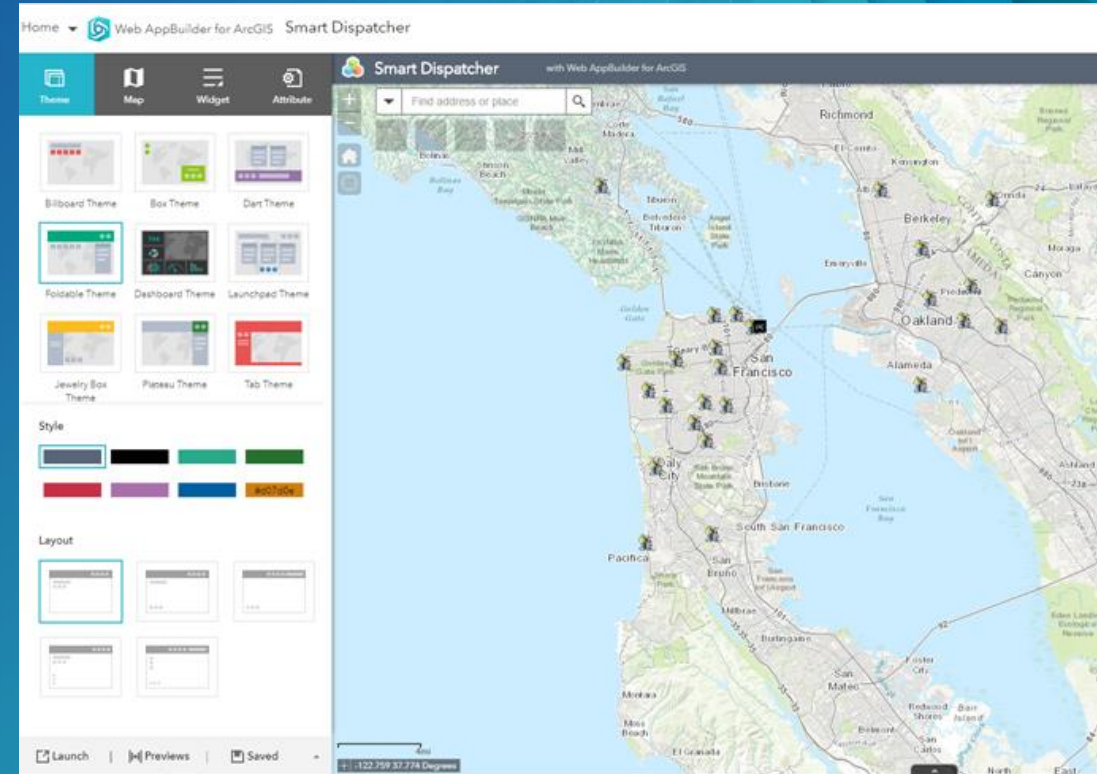
Summary: (Optional)

Save in folder:

BACK

GET STARTED

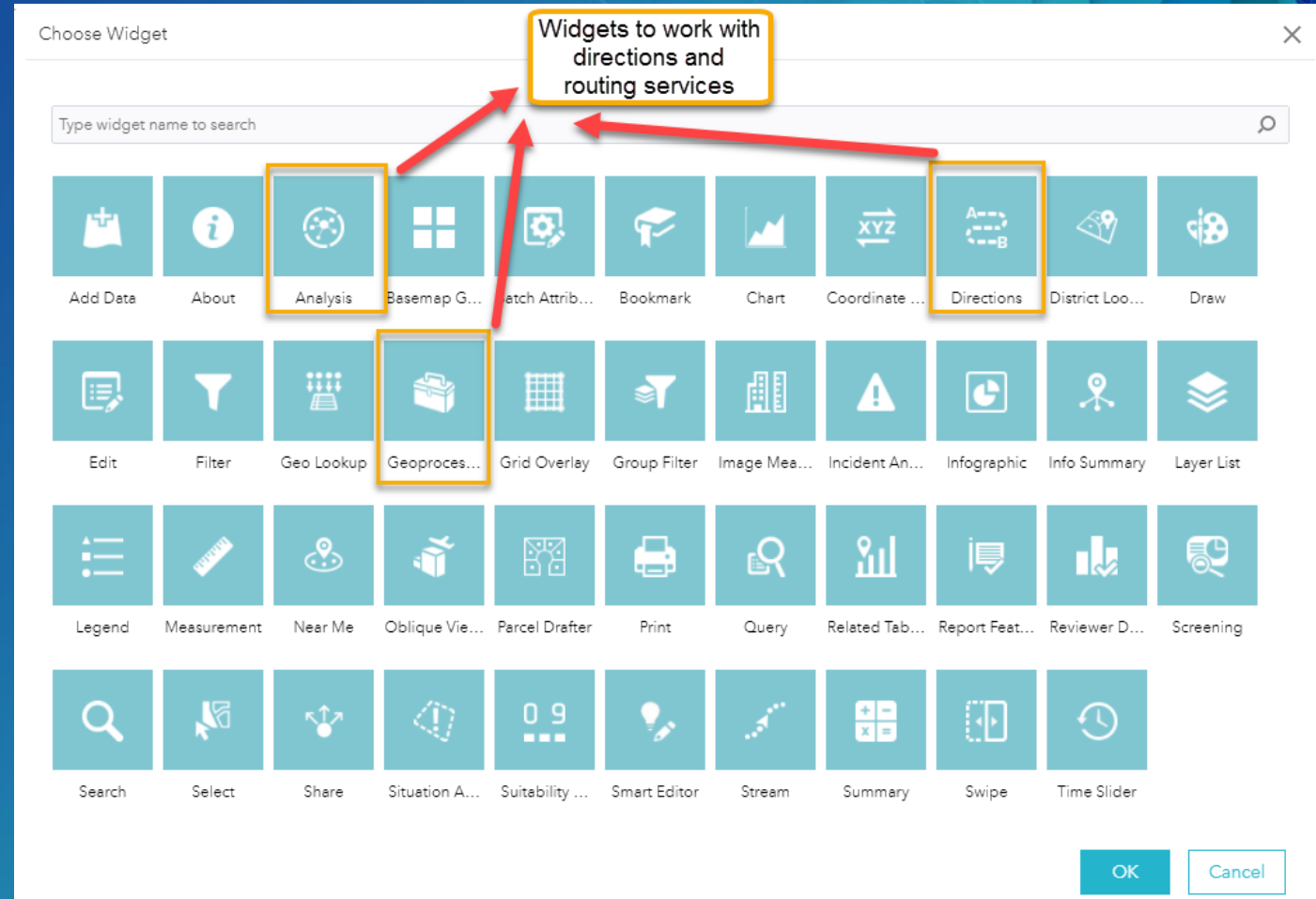
CANCEL

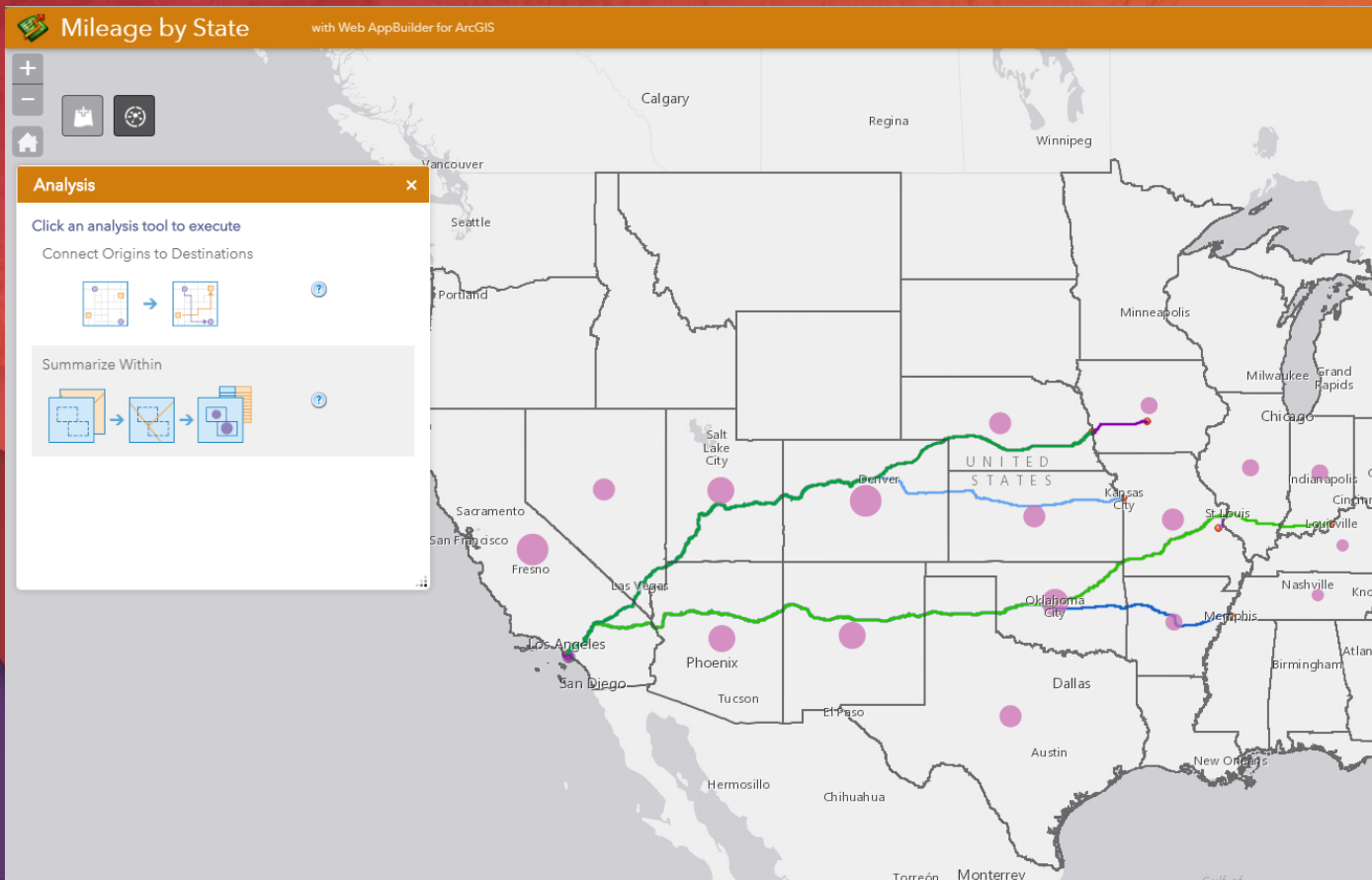


Web AppBuilder widgets

Choose the widgets you need in your app

- Pick the widgets for your workflow
- Directions and routing services are available with the following widgets
 - Analysis
 - Directions
 - Geoprocessing





Demo

Mileage by State

Create a Mileage by State app
using Web AppBuilder

Web AppBuilder custom widgets


Build your own widgets

- Build widgets for your own workflows using Web AppBuilder Developer Edition
- Combine existing widgets to create new widgets
- Requires programming in HTML5 / CSS / JavaScript
- Apps containing custom widgets have to be hosted on your own web server

Create custom widgets and themes for Web AppBuilder.

Get Web AppBuilder for ArcGIS (Developer Edition) to create custom widgets and themes. Boost your productivity by extending the framework. Build powerful GIS apps that run on desktops, tablets, and smartphones.


[Supported Browsers](#) | [License](#) | [Key Features](#) | [Developer's Overview](#)



Installation and set up

Instructions are provided to help you install and start Web AppBuilder for ArcGIS.


[> Get Started](#)



Your first app

Find a location for a given address using geocoding functionality.

[> Build your first app](#)

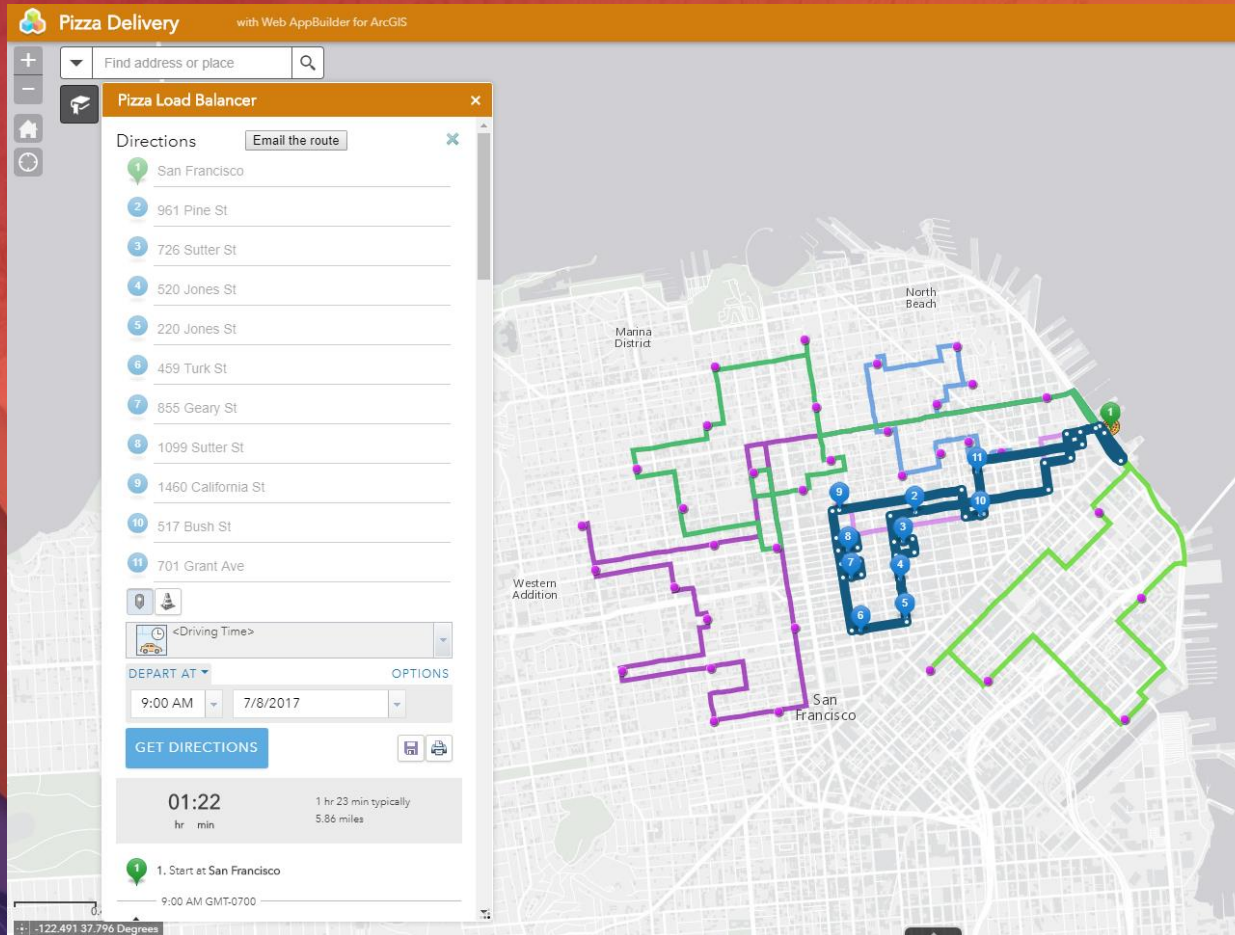


Custom widgets & themes

Build widgets to extend what your apps do and customize themes to tailor the look of your apps.

[> Widgets](#) [> Themes](#)

[Web AppBuilder Developer Edition](#)



Demo

Pizza Delivery

Create a Pizza Delivery app using
a custom Web AppBuilder widget

Please Take Our Survey on the Esri Events App!

Download the Esri Events app and find your event



Select the session you attended



Scroll down to find the survey



Complete Answers and Select "Submit"



Questions?

Slides from this technical workshop

<http://esriurl.com/uc17brago>



esri

THE
SCIENCE
OF
WHERE