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

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
Demo Story map

Site mobile health care clinics story map
Configurable app templates
Quickly transform your web map into a focused app
Demo
Store Locator

Create a store locator app using configurable app template
Web AppBuilder
Build powerful GIS apps that run on any device
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
Demo Pizza Delivery

Create a Pizza Delivery app using a custom Web AppBuilder widget.
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**Complete Answers and Select “Submit”**

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Questions?

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