Building Routing Applications with ArcGIS Online or ArcGIS Enterprise

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Slides from this demo theater

http://esriurl.com/uc18brago
Agenda

• Directions and routing services

• Creating web apps with ArcGIS
  - Configurable application templates
  - 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
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

• Use Publish routing services tool included with ArcGIS Enterprise 10.6 or later to publish all the routing services

• Publish routing services tool is available as a separate download for previous versions of ArcGIS Enterprise
Creating web apps with ArcGIS
Creating web apps with ArcGIS
Configure, customize, or build apps from scratch

- Story maps
- Configurable app templates
- No programming

Programming effort

- Web AppBuilder for ArcGIS
- Web AppBuilder custom widgets and themes
- Build apps using ArcGIS API for JavaScript
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 Map Viewer available with ArcGIS Online and ArcGIS Enterprise
- Can be leveraged by all other Esri Apps
Configurable app templates
Quickly transform your web map into a focused app
Demo: Store Locator
Create a store locator app using configurable app template
Shubhada Kshirsagar
Demo: Store Locator -- Takeaways

• Directions app template can be used to provide travel directions from user specified location to the features in your map

• Use a web map with your destination features to get started

• Configure popups and symbology in your web map

• Share the app publicly using Subscriber Content settings
Web AppBuilder
Build powerful GIS apps that run on any device
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
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 a Pizza Delivery app using Plan Routes analysis widget and Directions widget in Web AppBuilder

Shubhada Kshirsagar
Demo: Pizza Delivery -- Takeaways

• Web AppBuilder allows building apps with lots of capabilities.

• Analysis widget contains multiple tools

• Add Data widget allows you to add content from local files

• Share routes with your workforce using route layers and Navigator for ArcGIS
Please Take Our Survey on the App

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Select the session you attended

Select the Feedback tab

Complete answers and select “Submit”
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Questions?

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