Global Distributor Summit
July 12-13, 2014

What's New in ArcGIS Online Network Analysis

Scott Sandusky

Content

Network Analysis Data

- **New Coverage Map Classification**
  - **Minimal Street Coverage**
- **Updates**
  - **HERE Q4 2013**
  - **Thailand**
- **Greece provider**

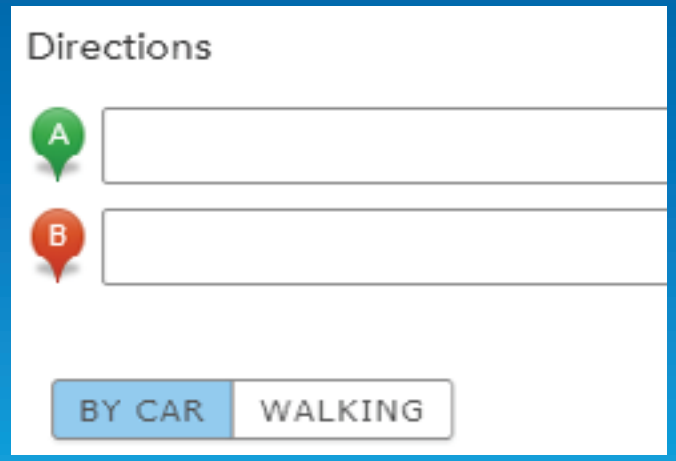
What’s New

1. Travel Modes
2. Directions
3. Create Drive Time
4. Plan Routes

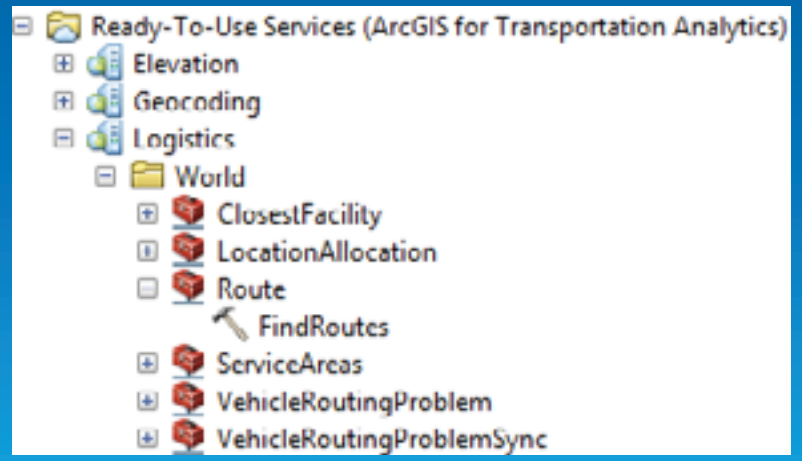
Travel Modes

- **Straight forward way to perform routing Online**
- **Predefined travel settings for walking, driving, and trucking**
- **Available in ArcGIS Apps and for Developers**

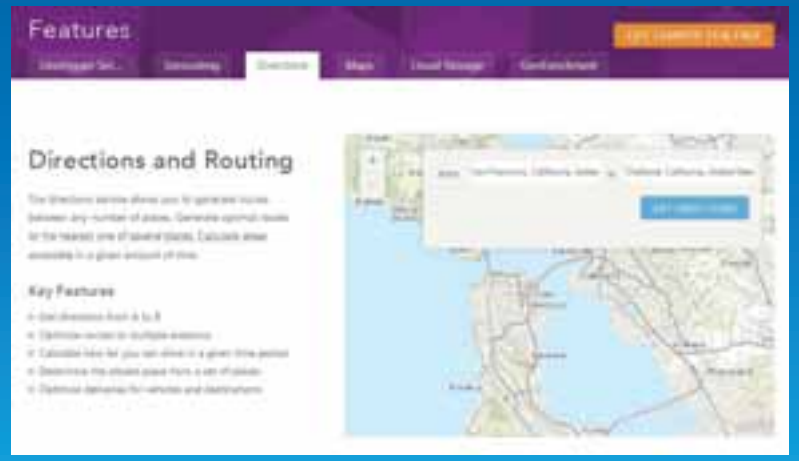
Platform Apps & Tools



Ready-To-Use Services



Developer



Walking Mode

- **More accurate urban area analysis for Online**

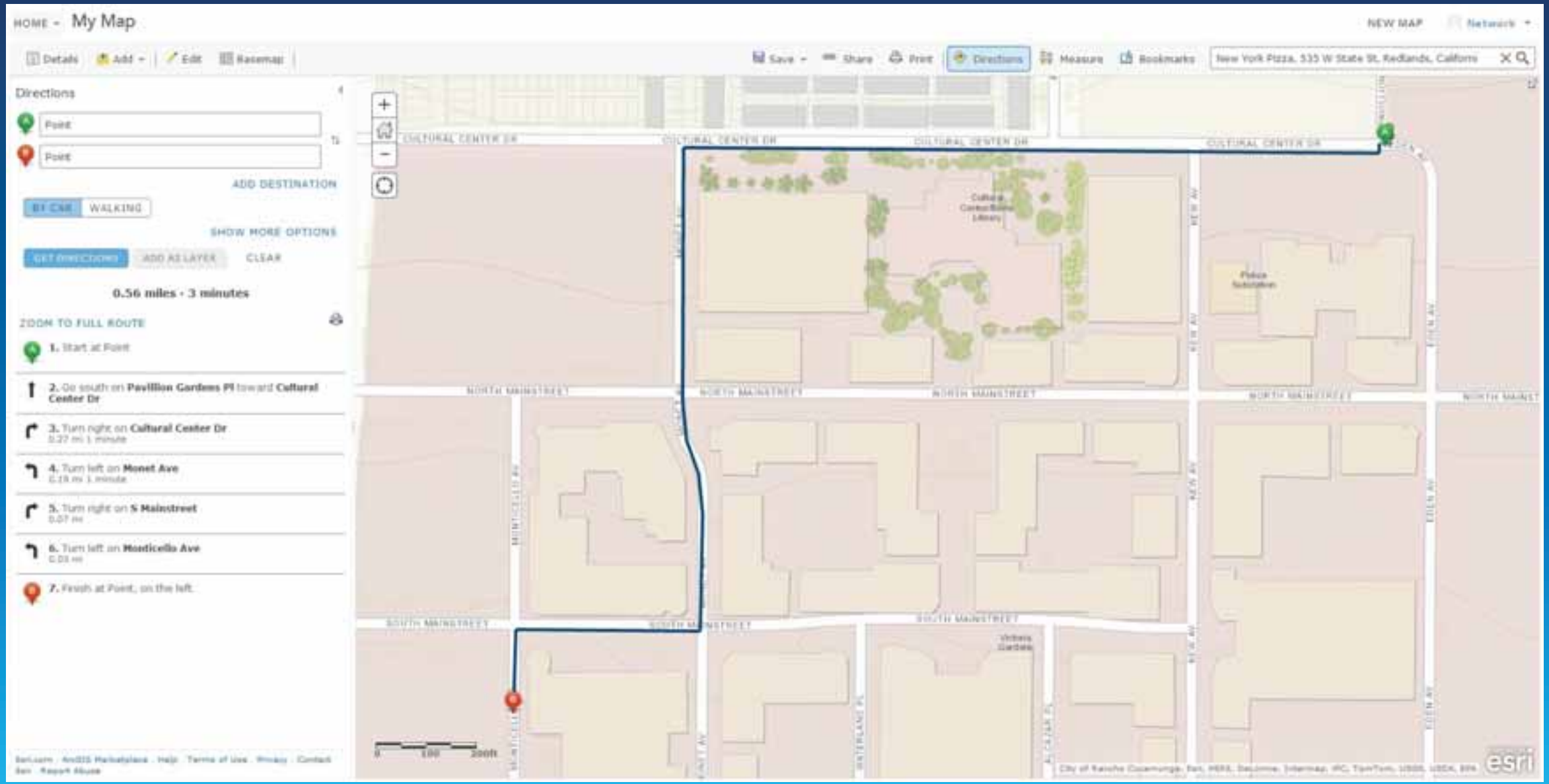
- **Global networks enhanced**
  - **Walking path connectors**
  - **Pedestrian friendly designation**
  - **Stairways designation**
  - **Walking speed**

"We really need this for our park and open space planning work… we want to be able calculate walkable buffers using network analyst nationwide." - ParkScore

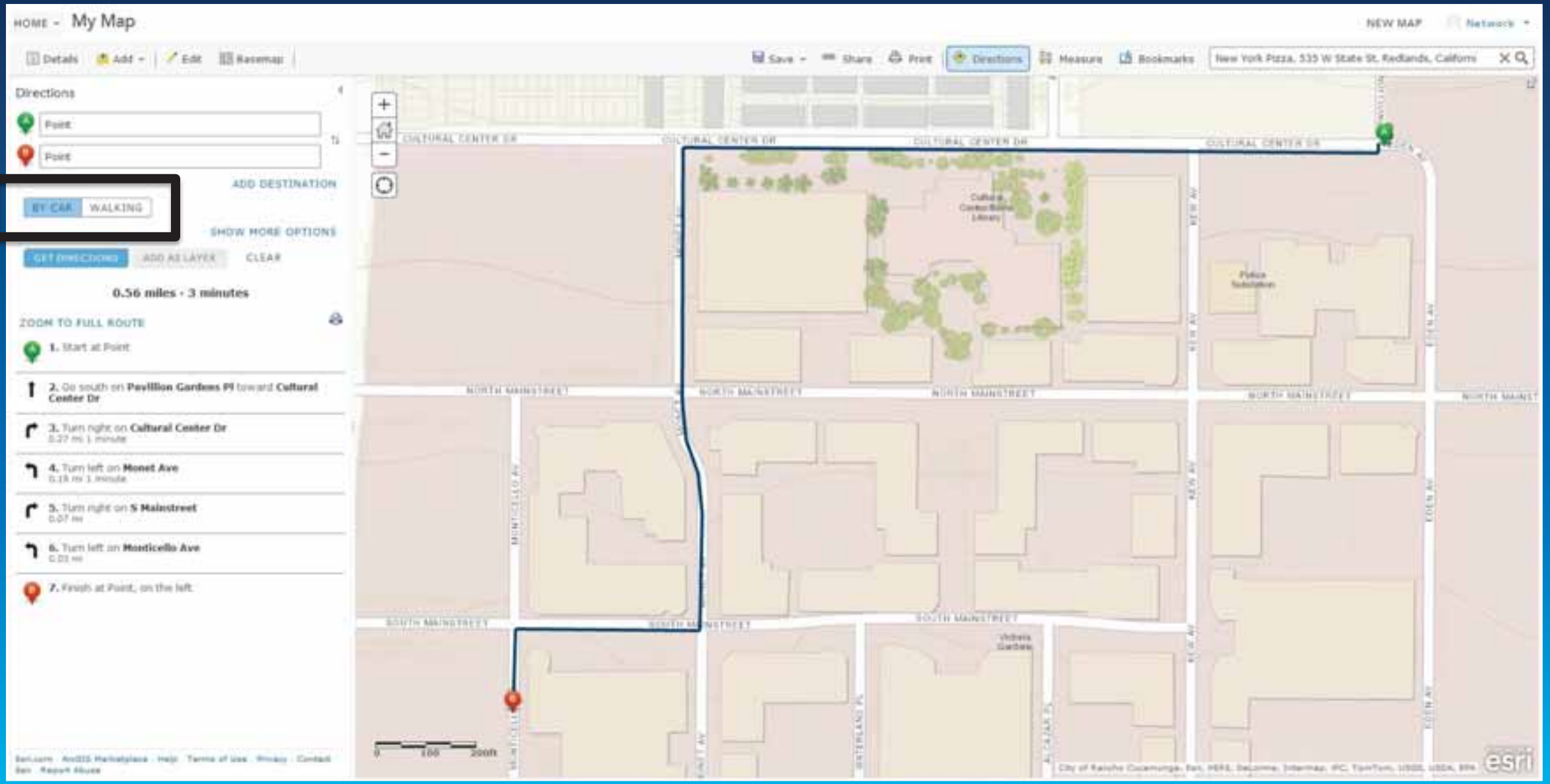
Trucking Mode

- More accurate travel time and truck specific routing analysis for Online
- Network content enhanced
  - Trucking route designation
  - Truck designated speeds
- July: North & Central America
- Fall: Global

Directions


HOME - My Map
NEW MAP
Details
Add
Edit
Basemap
Save
Share
Print
Directions
Measure
Bookmarks
New York Pizza, 535 W State St, Redlands, California
Directions
Point
Point
ADD DESTINATION
BY CAR
WALKING
SHOW MORE OPTIONS
GET DIRECTIONS
ADD AS LAYER
CLEAR
0.56 miles · 3 minutes
ZOOM TO FULL ROUTE
1. Start at Point
2. Go south on Pavillion Gardens Pl toward Cultural Center Dr
3. Turn right on Cultural Center Dr
4. Turn left on Monet Ave
5. Turn right on S Mainstreet
6. Turn left on Monticello Ave
7. Finish at Point, on the left.
CULTURAL CENTER DR
NORTH MAINSTREET
SOUTH MAINSTREET
esri

Directions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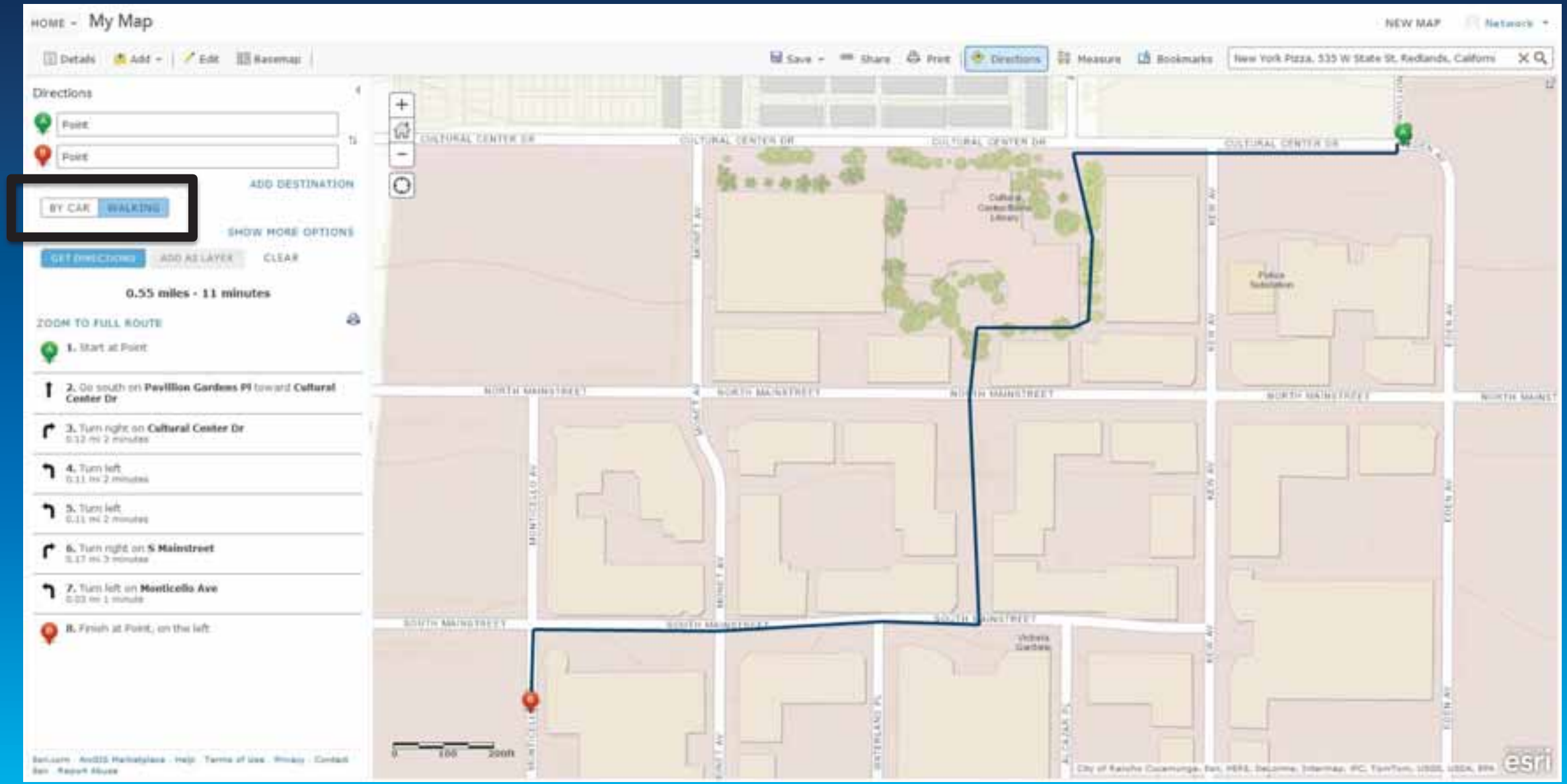
New York Pizza, 535 W State St, Redlands, Californ
Directions
Point
Point
ADD DESTINATION
BY CAR
WALKING
SHOW MORE OPTIONS
GET DIRECTIONS
ADD AS LAYER
CLEAR
0.56 miles · 3 minutes
ZOOM TO FULL ROUTE
1. Start at Point
2. Go south on Pavillion Gardens Pl toward Cultural Center Dr
3. Turn right on Cultural Center Dr
0.27 mi 1 minute
4. Turn left on Monet Ave
0.18 mi 1 minute
5. Turn right on S Mainstreet
0.07 mi
6. Turn left on Monticello Ave
0.03 mi
7. Finish at Point, on the left.
CULTURAL CENTER DR
NORTH MAINSTREET
SOUTH MAINSTREET
esri

Directions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New York Pizza, 535 W State St, Redlands, California
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GET DIRECTIONS
ADD AS LAYER
CLEAR
0.55 miles - 11 minutes
ZOOM TO FULL ROUTE
1. Start at Point
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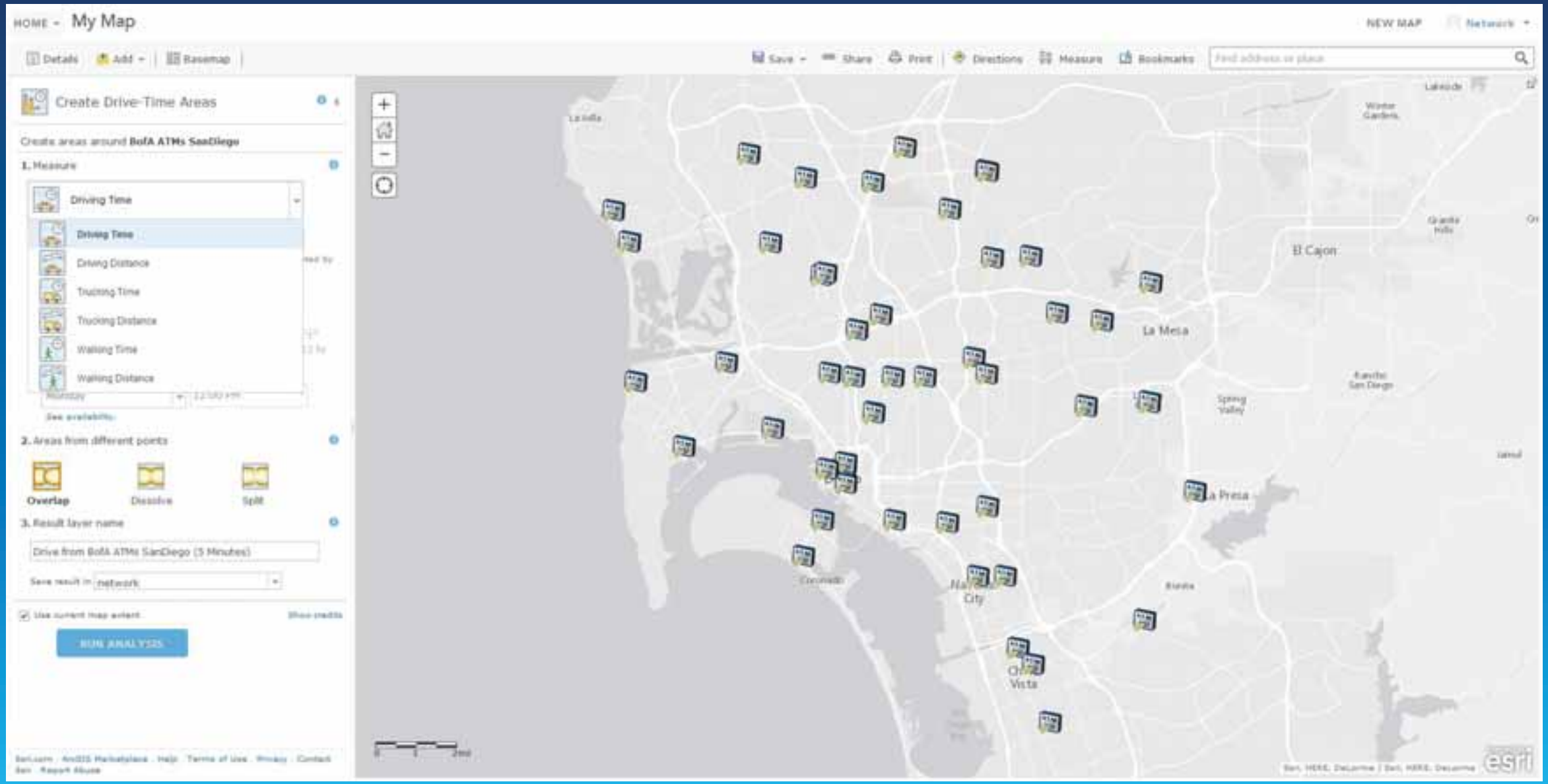
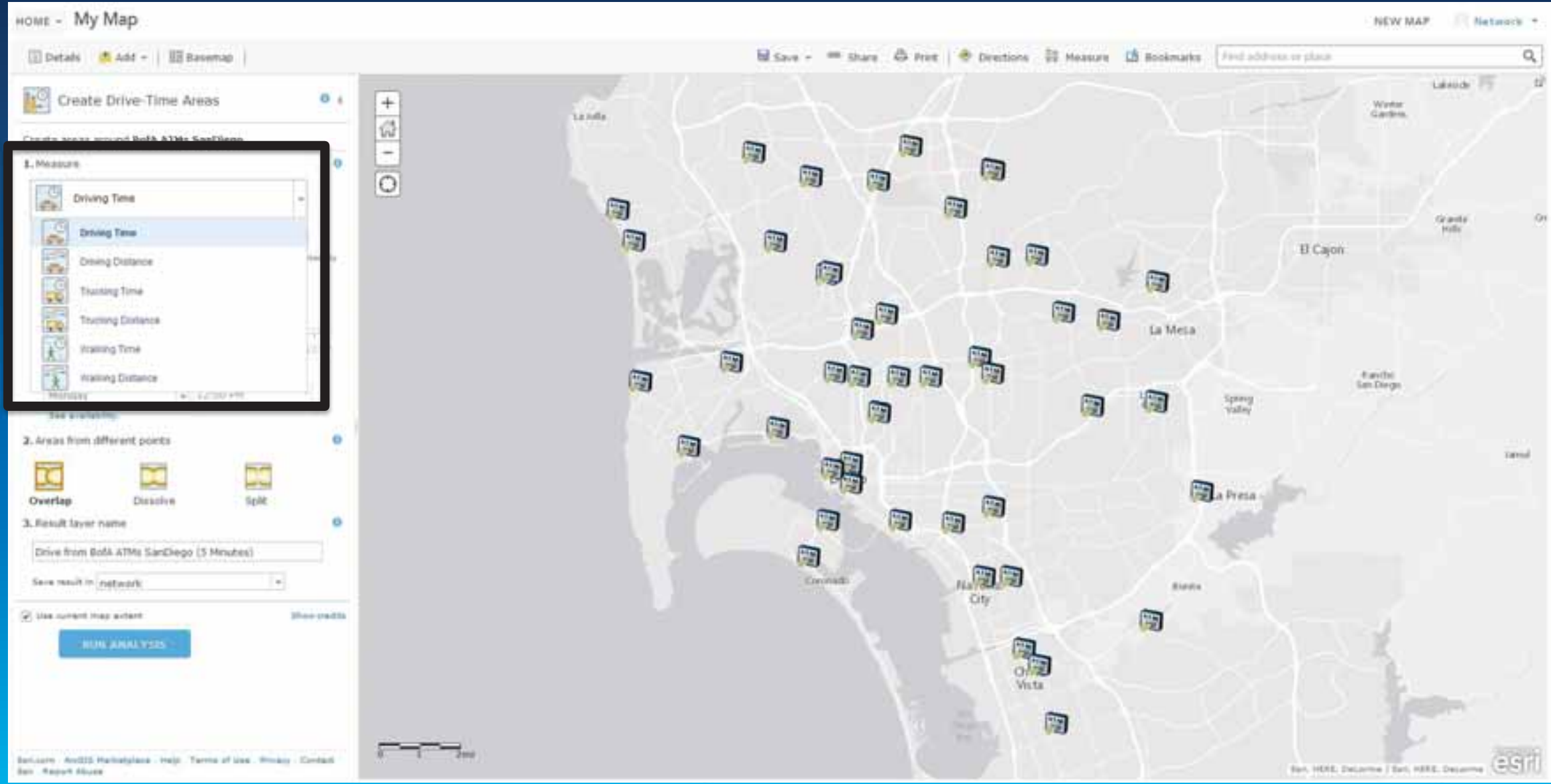
4. Turn left
5. Turn left
6. Turn right on S Mainstreet
7. Turn left on Monticello Ave
8. Finish at Point, on the left
CULTURAL CENTER DR
NORTH MAINSTREET
SOUTH MAINSTREET
esri

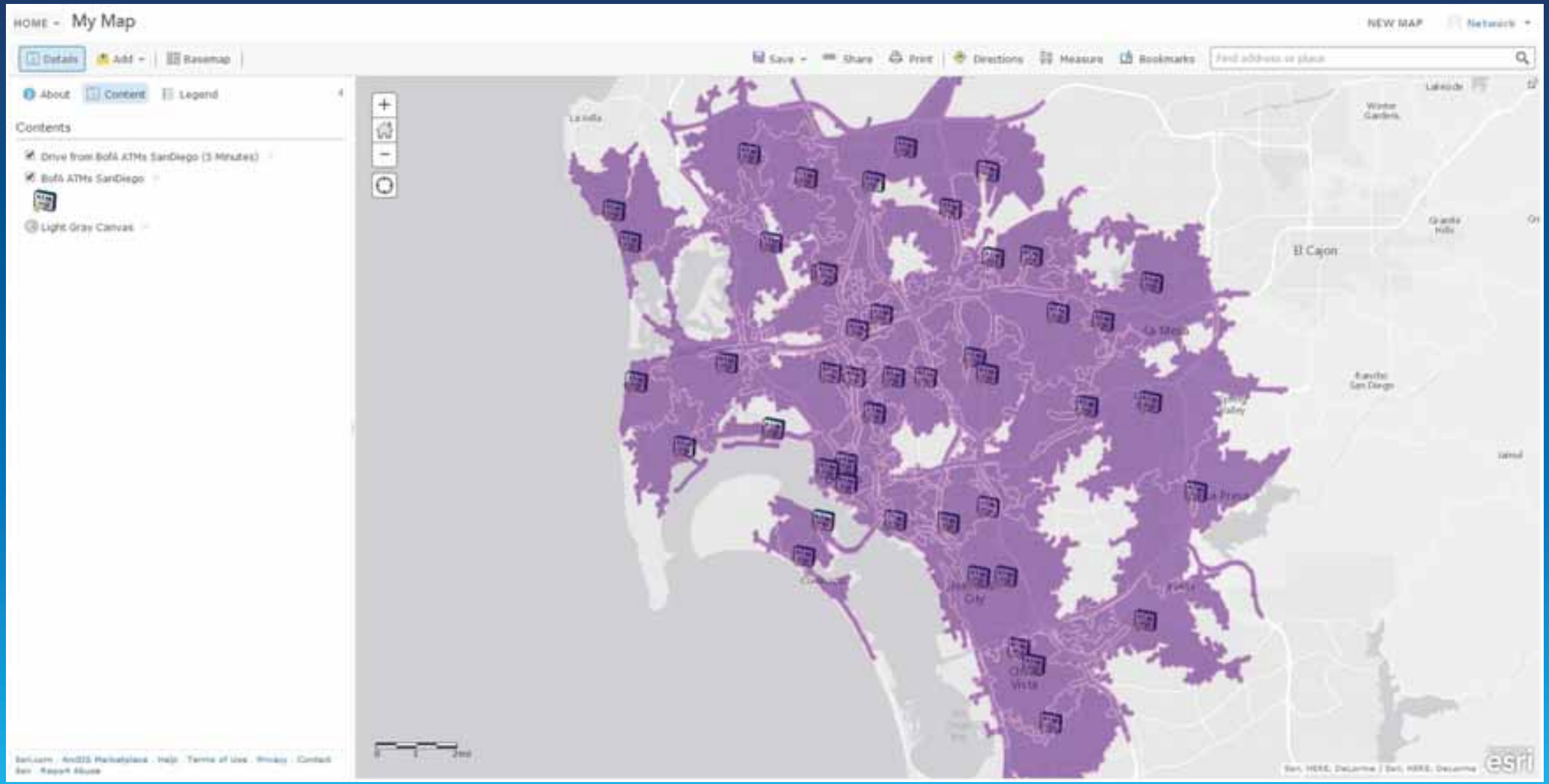
Create Drive-Time Areas



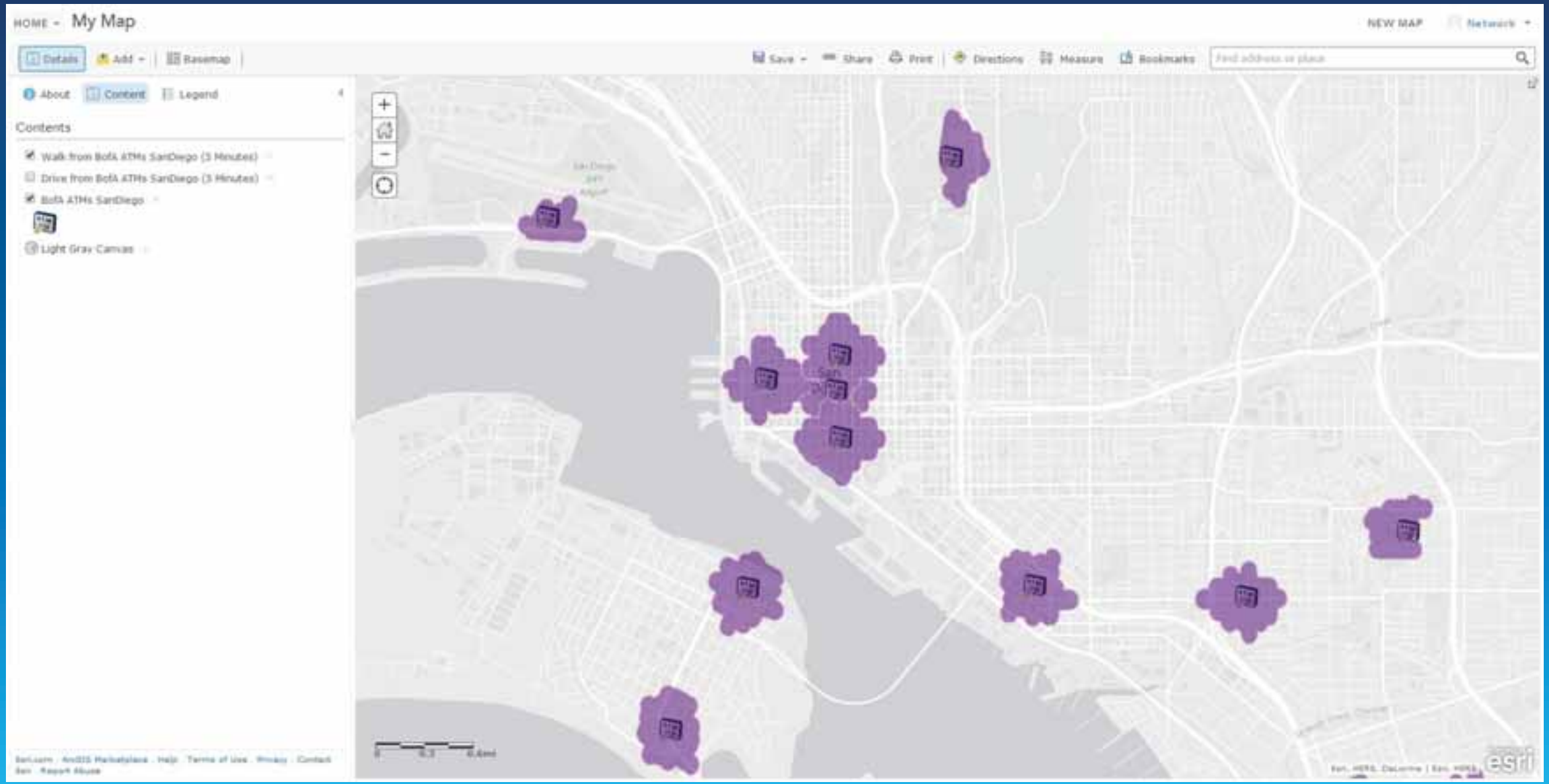
Create Drive-Time Areas



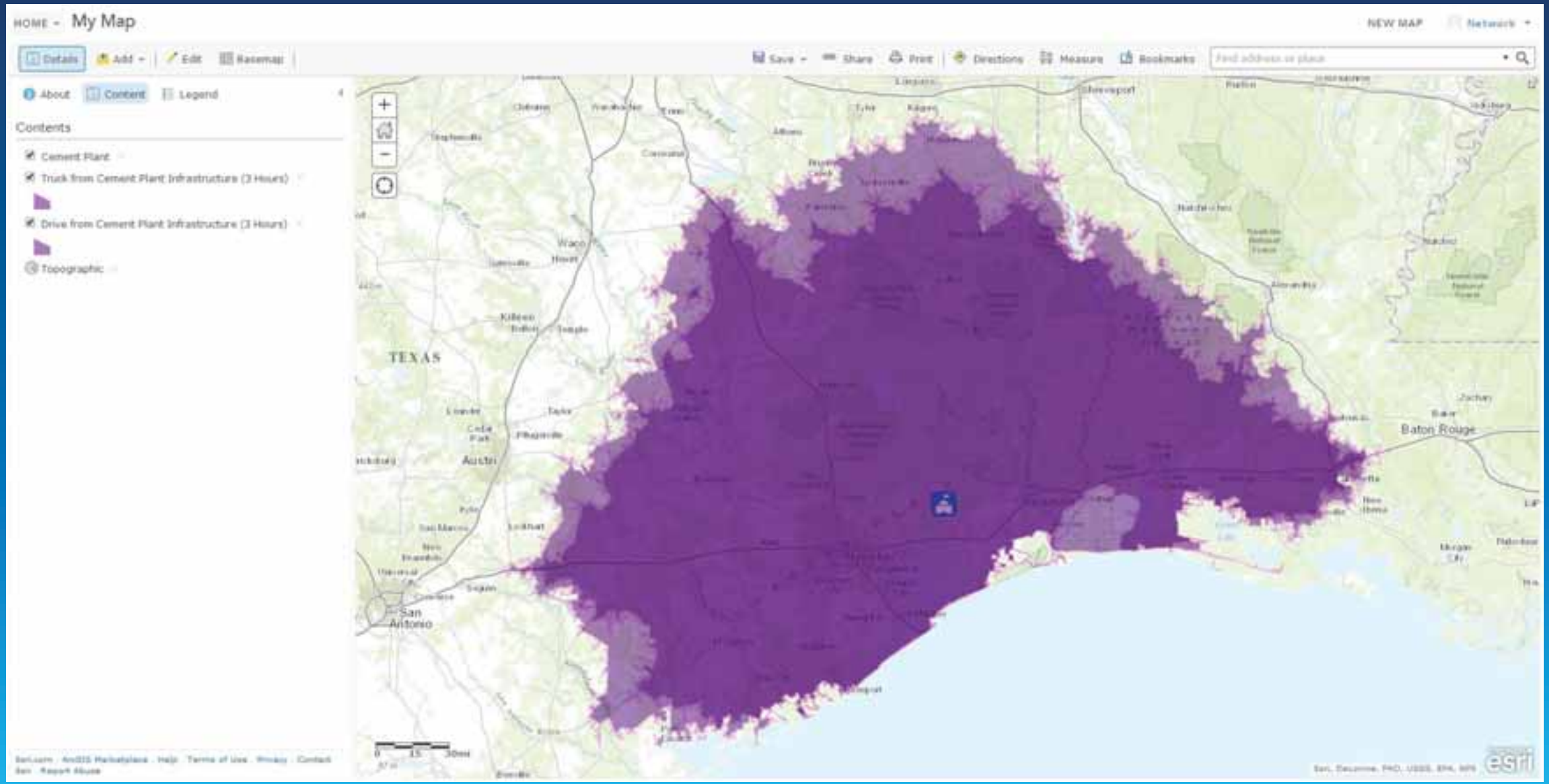
Create Drive-Time Areas (5 min Drive Time)



Create Drive-Time Areas (5 min Walk Time)



Create Drive-Time Areas (3 hr Trucking Time)



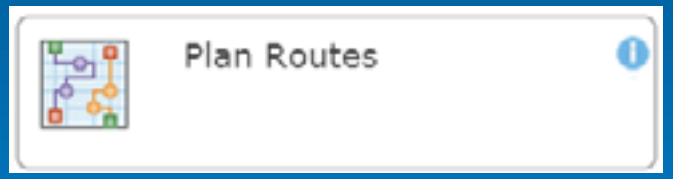
Plan Routes

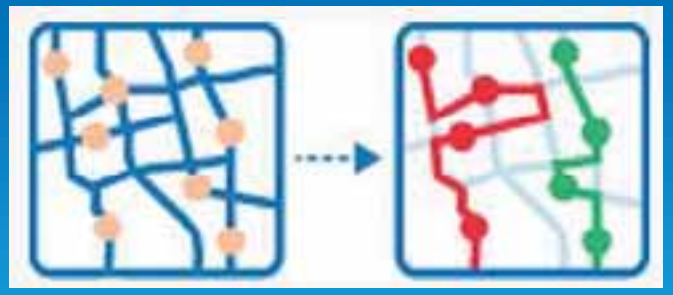
Simple Multi-Route Optimization

- A simple way to assign stops for a small workforce

- Assessor's offices
- Water and sanitation districts
- Public works departments

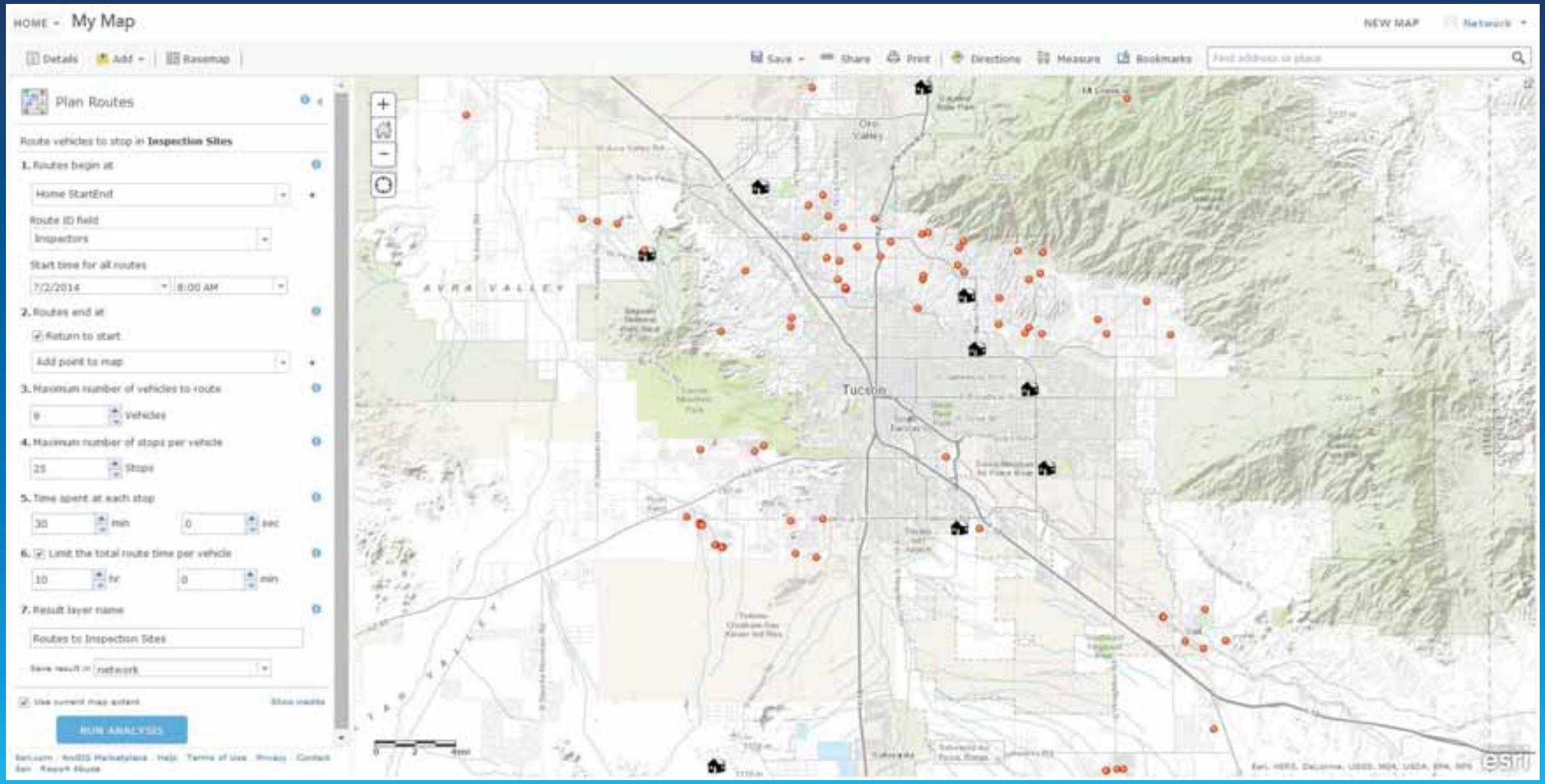
- Multi-route optimization
  - "VRP light"



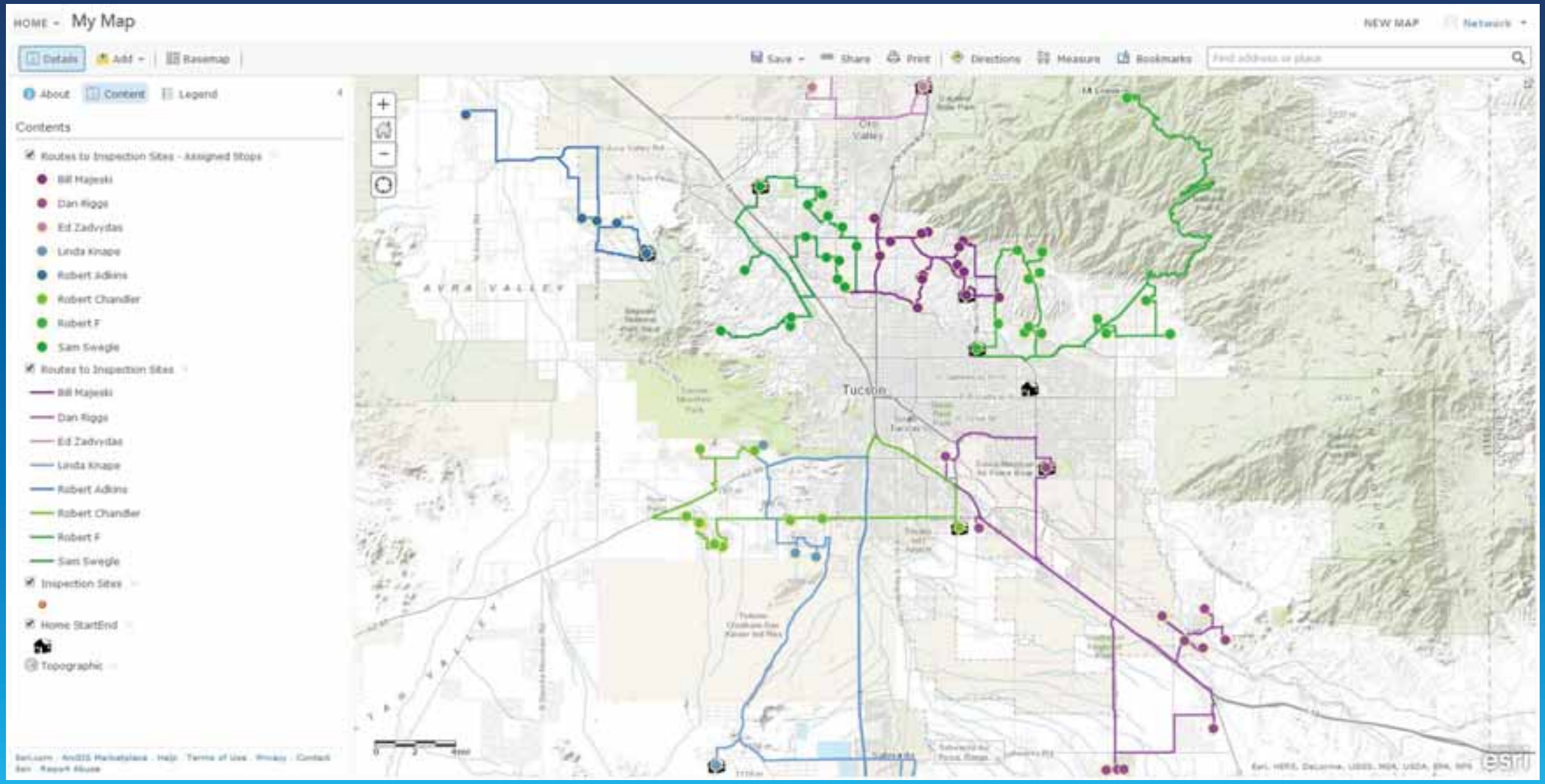


ArcGIS.com Map Viewer & JavaScript API

Plan Routes


HOME - My Map
NEW MAP
Details
Add
Basemap
Save
Share
Print
Directions
Measure
Bookmarks
Find address or place
Plan Routes
Route vehicles to stop in Inspection Sites
1. Routes begin at
Home StartEnd
Route ID field
Inspectors
Start time for all routes
7/2/2014
8:00 AM
2. Routes end at
Return to start
Add point to map
3. Maximum number of vehicles to route
9
Vehicles
4. Maximum number of stops per vehicle
25
Stops
5. Time spent at each stop
30
min
0
sec
6. Limit the total route time per vehicle
10
hr
0
min
7. Result layer name
Routes to Inspection Sites
Save result in
network
Use current map extent
Show credits
RUN ANALYSIS
Tucson
AVRA VALLEY
Oro Valley
esri

Plan Routes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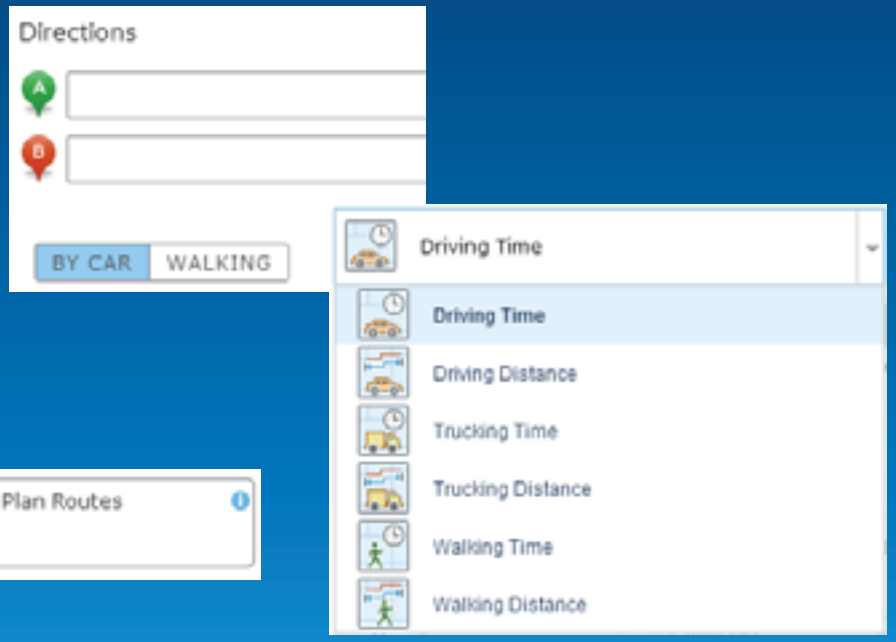
About
Content
Legend
Contents
Routes to Inspection Sites - Assigned Stops
Bill Majeski
Dan Riggs
Ed Zadvydas
Linda Knapp
Robert Adkins
Robert Chandler
Robert F
Sam Swegle
Routes to Inspection Sites
Bill Majeski
Dan Riggs
Ed Zadvydas
Linda Knapp
Robert Adkins
Robert Chandler
Robert F
Sam Swegle
Inspection Sites
Home StartEnd
Topographic
AVRA VALLEY
Tucson
esri

What’s New - July Network Analysis - Summary

1. Enhanced Content: walking and trucking
2. Directions: walking
3. Create Drive Time: walking and trucking
4. Plan Routes



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