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
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

1. Start at Point
2. Go south on Pavilion 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

0.56 miles - 3 minutes
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”
Plan Routes

Route vehicles to stop at Inspection Sites

1. Routes begin at
   - Home Start: End
   - Route ID field
   - Inspector
   - 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

RUN ANALYSIS
Plan Routes
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

ssandusky@esri.com
x2518