Cool New Tools In Network Analysis

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Learn about the new functionality available in the Network Analyst extension and in the ArcGIS Online Network Analysis Services. This demo theater will showcase new advanced routing capabilities available to the GIS professional and in other ArcGIS applications.

**ArcGIS Online**

- Directions
- BY CAR
- WALKING

**ArcMap**

- Ready-to-Use Services (ArcGIS for Transportation Analytics)
- Elevation
- Geocoding
- Logistics
- World
- ClosestFacility
- LocationAllocation
- Route
- FindRoutes
- ServiceArcas
- VehicleRoutingProblem
- VehicleRoutingProblemSync

**ArcGIS Pro**

- New
- Online
- Computer

30 minute Demo Theater
ArcGIS Online
Cool New Tools in Network Analysis

- Content
- Directions Tool
- Analysis Tools
Walking Mode
ArcGIS Online Content

- Global networks enhanced
  - Walking path connectors
  - Pedestrian friendly designation
  - Stairway traversals
  - Walking speed (3 mph)

- 50 mile limit between input points
  - (limit does not apply to service area)
- Content concentrated in cities

"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
ArcGIS Online Content

- More accurate travel time and truck specific routing analysis

- Network content enhanced
  - Trucking route designation
  - Truck designated speeds

- July: North & Central America
- Fall: Global
ArcGIS Online

- Directions
- Plan Routes
- Create Drive Time Areas
ArcMap

Cool New Tools In Network Analysis

• Ready-To-Use Services
  - Find Routes
  - Solve Location Allocation
  - Travel Mode

• Network Analyst Extension
  - VRP: improved clustering
  - Service Area: faster & more accurate
ArcMap

FindRoutes Ready-To-Use Service
ArcGIS Pro

Cool New Tools In Network Analysis

• Interactive Ribbon Tools (Service Area & Route)

Now in Beta
Final in November
ArcGIS Pro
Service Area
Summary
Cool New Tools in Network Analysis

ArcGIS Online

ArcMap

ArcGIS Pro

[Images of various software interfaces demonstrating new tools in network analysis]

30 minute Demo Theater
What To Do Next

Now What?

Try the tools with your own data!

Please fill out the survey: www.esri.com/ucsessionsurveys
- Session ID: 1249

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For More Info

Questions?

• Desktop & Server Help: resources.arcgis.com

• Map Viewer Tools: doc.arcgis.com

• Developer Tools: developer.arcgis.com

• Services: route.arcgis.com

• Community: forums.arcgis.com

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Future Plans - Online
2014 & 2015

• Configurable Travel Modes
  - Administrator defines settings that just work for app users

• Connect Origins to Destinations
  - Determine mileage, for reporting or billing
  - Identify which roads are most frequently traveled on
  - Connect route pairs
  - Batch 2 stop routes
Future - Network Analyst Extension
10.3 & Beyond

• 10.3
  - VRP: improved clustering of routes and orders
  - VRP: order time availability
  - GP tools to more easily publish your own route and location allocation services

• Beyond
  - Configurable travel modes to define, store, and easily reuse network analysis properties
  - GP tool to generate fast and accurate service area index
  - ArcGIS Pro including additional solvers in ribbon
Global Coverage – Network Analysis Services

Coverage Map

19 Direction Languages

Transportation Network
101 - Detailed
44 - Intermediate

Traffic
35 - Live
42 - Historic

Country List
Capabilities – Network Analysis Services

Simple Route

Optimized Route

Service Area

Location Allocation

Closest Facility

Vehicle Routing Problem

Traffic

Historical
15min intervals

Observed
5min intervals

Predictive
5min intervals

Historical
15min intervals

Traffic Aware

Past

Live

Future

Commercial Grade

Travel Modes

Directions

Now – 12hrs

Now + 12hrs