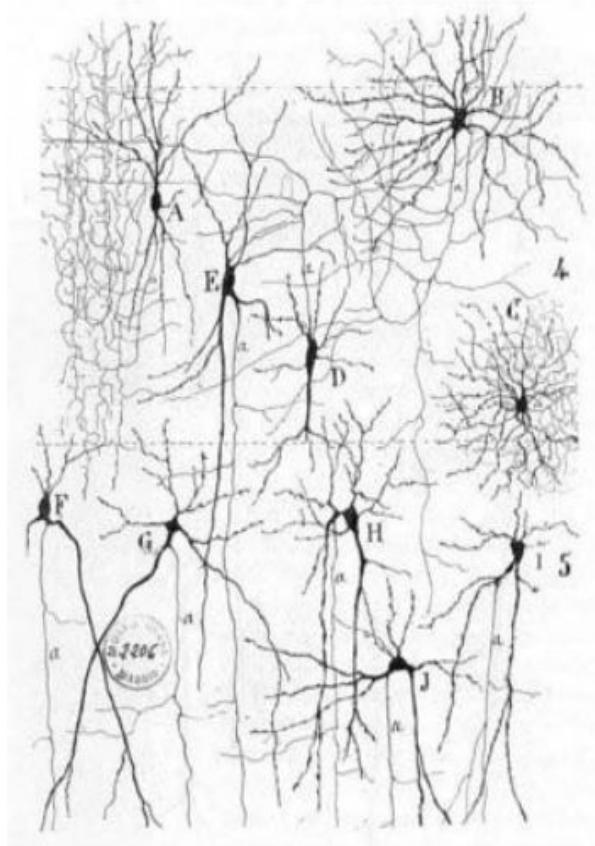
The background of the slide features abstract brushstrokes in shades of green, teal, and blue. Overlaid on these strokes are several clusters of white halftone dots, creating a textured, digital aesthetic.

NETWORK ANALYSIS

- Introduce basic components of a network
- Understand general network analysis concepts
- Offer a few examples of current application
- Introduce network analysis in ArcGIS

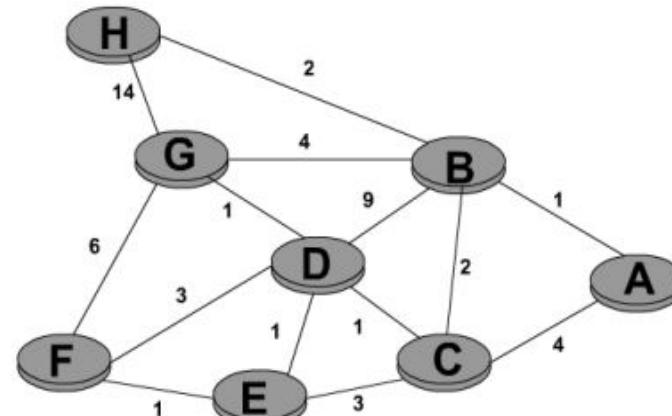


Network and
its
components



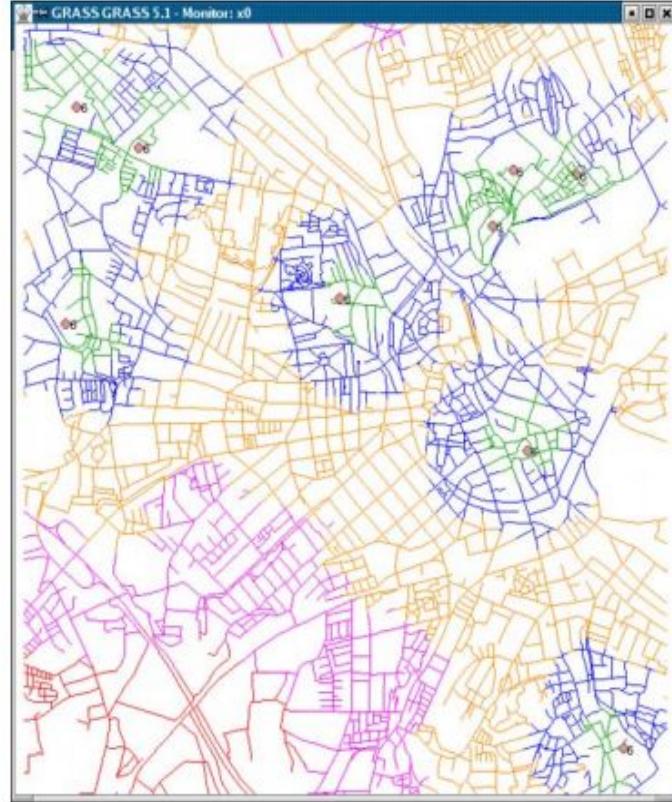
- A network is made up of edges and nodes
 - Edges are the “lines” of the network
 - Nodes are physical locations
- Edges for all cases discussed in this module will be roads

- Types of locations (nodes)
 - Stops
 - Barriers
 - Facilities
 - Incidents
 - Origins
 - Destinations



- **Rules** dictate how objects can move through the network

- Types
 - Direction – one way streets
 - Barriers
 - Time of day
 - Node restrictions
 - Sequence – stop 1 then stop 2



- Cost:

What is the impact of an object flowing through the network?

- Types

- Time

- Distance

ArcGIS Network Analyst Extension



...models transportation

- 
- Less gas used
 - Less vehicle maintenance
 - Less driver overtime
 - More customers serviced
 - Optimal locations chosen
 - Redundant facilities removed

B
Network /

ArcGIS Network Analyst Extension
is *NOT* used for utility networks



Utility networks are part of the geodatabase



Restrictions

are inverse to smooth flow
They inhibit the flow of traffic
They increase travel time
They can't be ignored





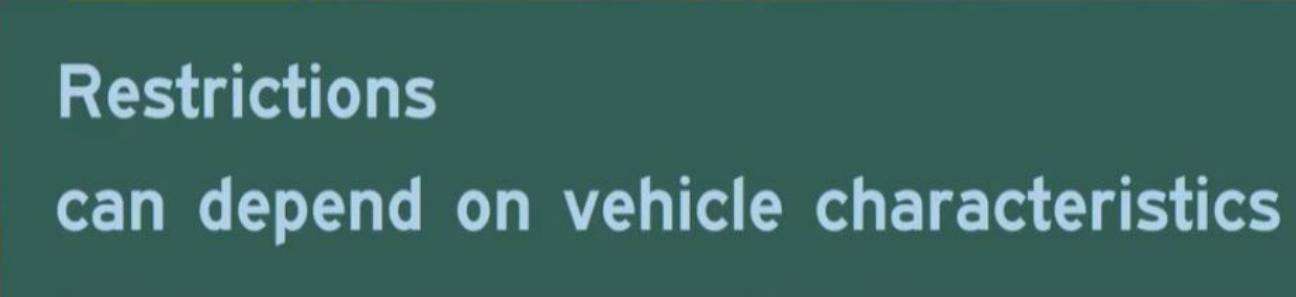
**RIGHT
TURN
ON RED**

Restrictions

can depend on street characteristics



12'- 6"



Restrictions

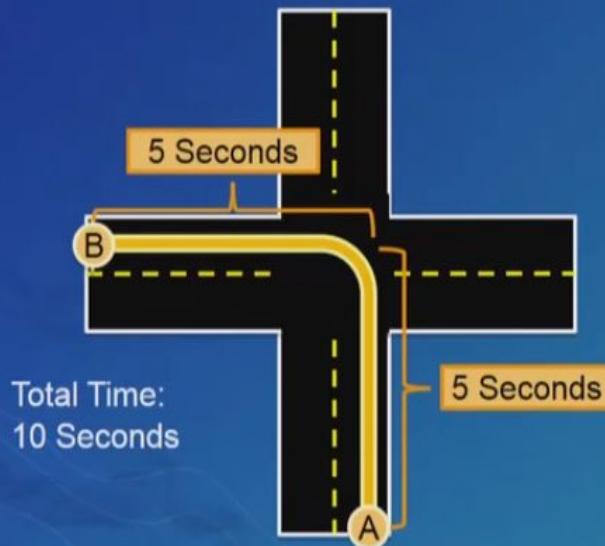
can depend on vehicle characteristics



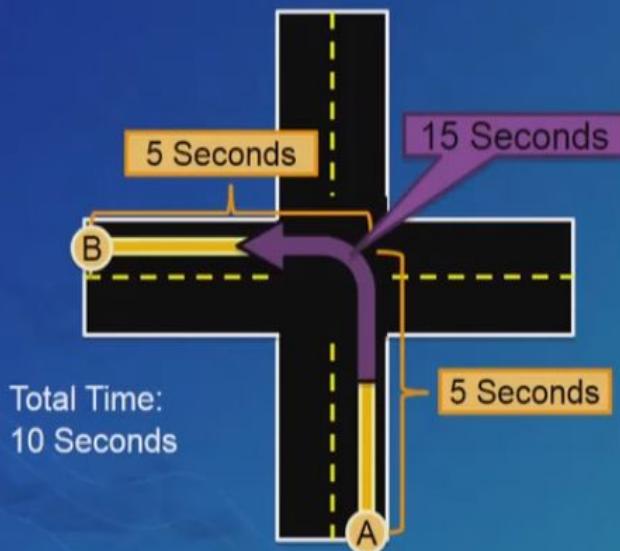


Turns
can restrict travel

Turns can add time



Turns can add time



A photograph of a major flooding event on a highway. The water is very deep, almost reaching the tops of the vehicles. Several cars are stuck in the floodwater, including a red car in the foreground and a white van partially submerged on the left. A large, multi-colored concrete wall runs along the left side of the road. In the background, there's a building with a glass facade and some utility poles. The sky is overcast.

**Barriers
can restrict travel**

A photograph showing a road closure. In the foreground, two "ROAD CLOSED" signs are mounted on metal poles. Behind them, several orange and white striped traffic barriers are set up across a street. A yellow and black traffic light is mounted on one of the barrier posts. The background shows a residential area with houses and trees under a clear blue sky.

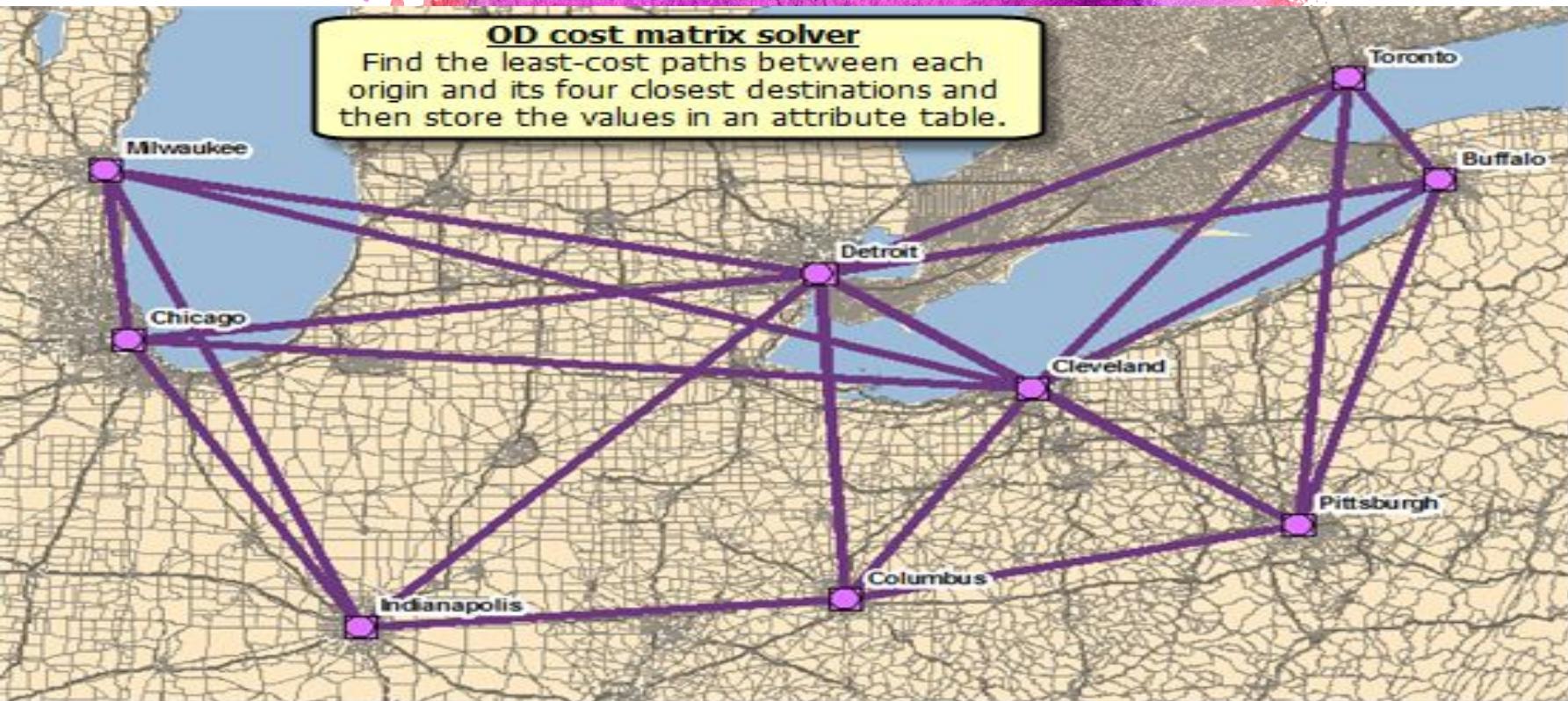
Barriers
can restrict travel

Network tests

- New Route
- Closest facility
- New Service area
- New OD matrix



OD MATRIX



OD MATRIX

- × The OD cost matrix finds and measures the least-cost paths along the network from multiple origins to multiple destinations. When configuring an OD cost matrix analysis, you can specify the number of destinations to find and a maximum distance to search.
- × In the graphic below, the OD cost matrix found the least-cost paths from each origin to the four nearest destinations. The output shape type was set to produce straight lines.



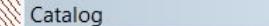
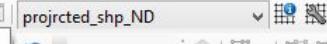
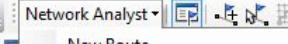
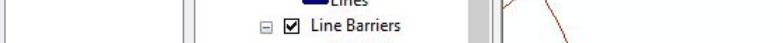
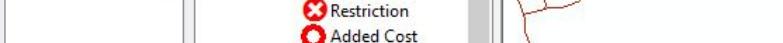
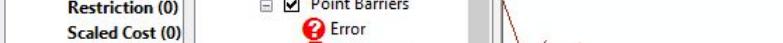
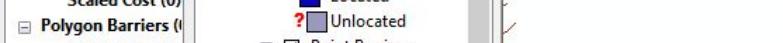
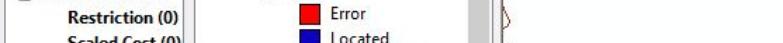
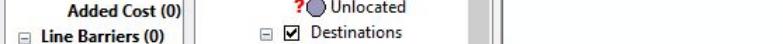
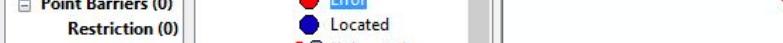
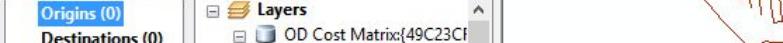
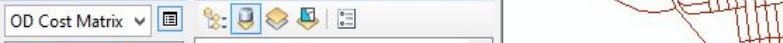
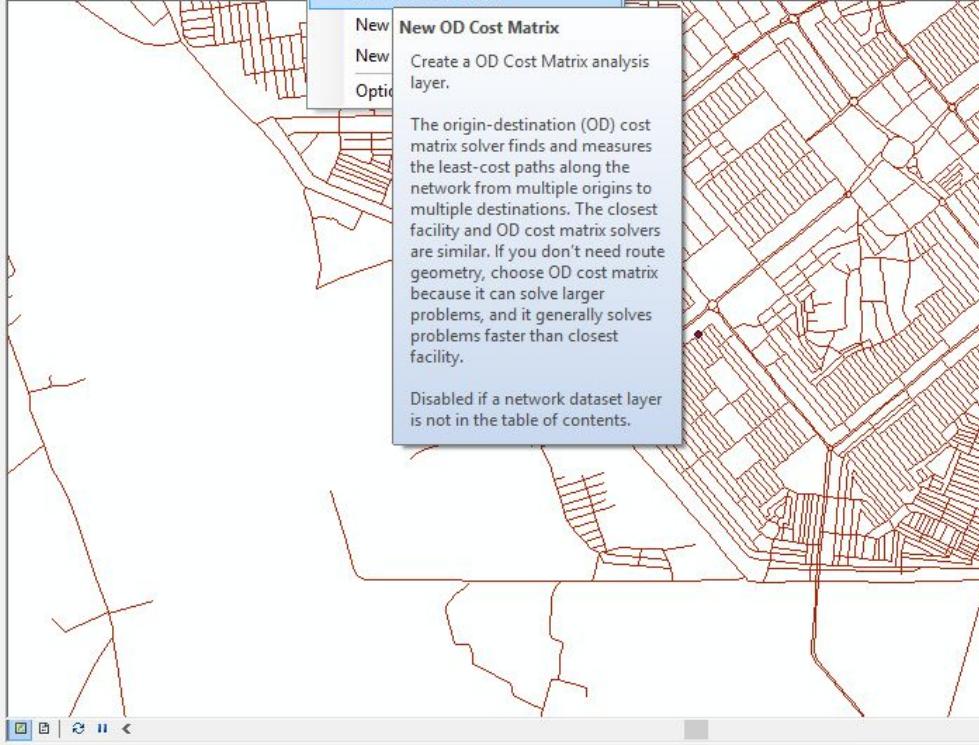


Table Of Contents

OD Cost Matrix

- Origins (0)**
- Destinations (0)**
- Lines (0)**
- Point Barriers (0)**
 - Restriction (0)
 - Added Cost (0)
- Line Barriers (0)**
 - Restriction (0)
 - Scaled Cost (0)
- Polygon Barriers (0)**
 - Restriction (0)
 - Scaled Cost (0)
- D:\projects**
 - OD Cost Matrix** (49C23CF)
 - Origins
 - Error
 - Located
 - Unlocated
 - Destinations
 - Error
 - Located
 - Unlocated
 - Point Barriers
 - Error
 - Restriction
 - Added Cost
 - Lines
 - Lines
 - Line Barriers
 - Restriction
 - Scaled Cost
 - Polygon Barriers
 - Restriction
 - Scaled Cost
 - projrcted_shp_ND**



Catalog

Location: stores.shp

- PDFs
- presentations
- projects
 - liagt
 - navi
 - project
 - rana jahangeer
 - rana sb
- Sir Naeem project semester 3 ge
 - sultan
 - sewerage.gdb
 - dem31h101.tif
 - sewerage_pipes.shp
 - stores.shp
 - sultan sewage system.mxd
 - Water-ways.shp
 - water_supply.gdb
 - boundry.shp
 - Export_Output.shp
 - Export_Output_2.shp
 - Export_Output_3.shp
 - Export_Output_4.shp
 - fsd_shp.shp
 - gas_pipeline alternative route.m
 - hvd roads.shp



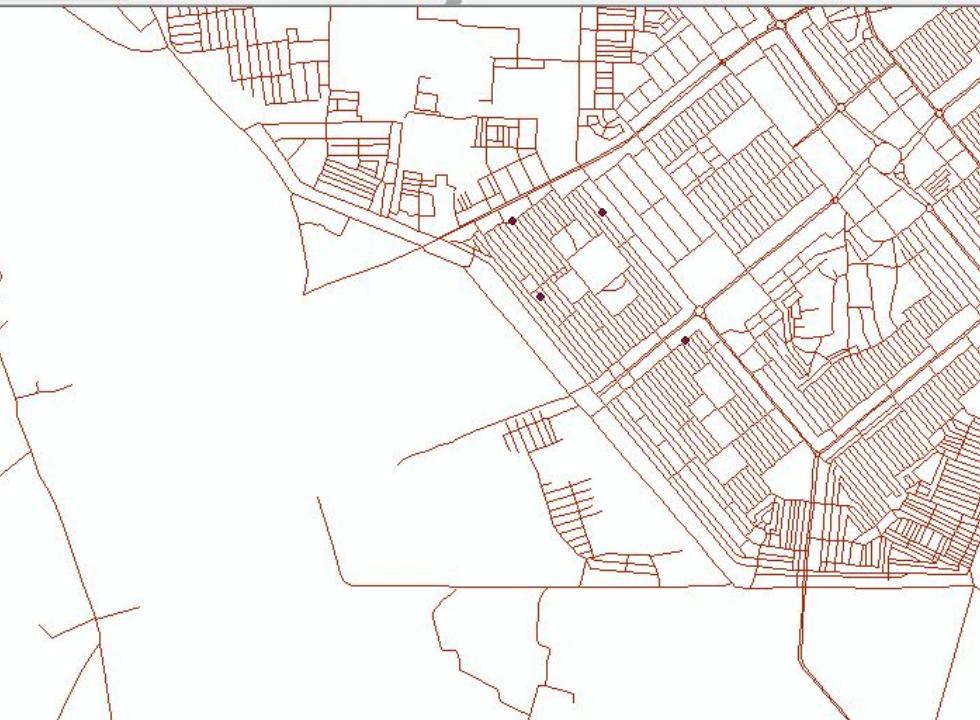
Network Ana... Table Of Contents



- Origins**
- Cut
 - Copy
 - Paste
 - Delete
 - Delete All**
 - Selection
 - Open Attribute Table
 - Export Data...
 - Zoom To Layer
 - Find Address...
 - Load Locations...**
 - Recalculate
 - Properties

Load Locations
Load records, features, graphics, or other network analysis objects into the active network analysis class.

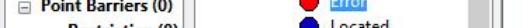
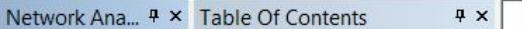
- Restriction
- Scaled Cost
- D:\projects
- OD Cost Matrix
- projrcted_shp_ND_Ju



Catalog

- Location: stores.shp
- PDFs
 - presentations
 - projects
 - liagt
 - navi
 - project
 - rana jahangeer
 - rana sb
 - Sir Naeem project semester 3 ge
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 - sewerage.gdb
 - dem31h101.tif
 - sewage_pipes.shp
 - stores.shp
 - sultan sewage system.mxd
 - Water-ways.shp
 - water_supply.gdb
 - boundry.shp
 - Export_Output.shp
 - Export_Output_2.shp
 - Export_Output_3.shp
 - Export_Output_4.shp
 - fsd_shp.shp
 - gas_pipeline alternative route.m
 - hvd roads.shp

-173095.982 2822925.015 Meters



Load Locations

Load From: **stores**

Only show point layers

Only load selected rows

Sort Field:

Location Analysis Properties

Property	Field	Default Value
Name		
TargetDestinationCount		
CurbApproach		Either side of vehicle
Cutoff_Length		
Cutoff_Time		

Location Position

Use Geometry

Search Tolerance: Meters

Use Network Location Fields

Property	Field
SourceID	
SourceOID	
PosAlong	

[About load locations](#)

Find Common Ancestors

Catalog

Location: **stores.shp**

- PDFs
- presentations
- projects
 - liagt
 - navi
 - projects
 - rana jahangeer
 - rana sb
- Sir Naeem project semester 3 ge
- sultan
 - sewerage.gdb
 - dem31h101.tif
 - sewerage_pipes.shp
 - stores.shp
 - sultan sewage system.mxd
 - Water-ways.shp
- water_supply.gdb
- boundry.shp
- Export_Output.shp
- Export_Output_2.shp
- Export_Output_3.shp
- Export_Output_4.shp
- fsd_shp.shp
- gas_pipeline alternative route.m
- hvd roads.shp

-173095.982 2822925.015 Meters





Geostatistical Analyst Network Analyst projrcted_shp_ND

Editor Drawing Georeferencing Flow Analysis Find Common Ancestors

Network Ana... Table Of Contents

OD Cost Matrix

Origins (7)

- Graphic Pick 1
- Graphic Pick 2
- Graphic Pick 3
- Graphic Pick 4
- Graphic Pick 5
- Graphic Pick 6
- Graphic Pick 7**

Destinations (6)

- Graphic Pick 8
- Graphic Pick 9
- Graphic Pick 10
- Graphic Pick 11
- Graphic Pick 12
- Graphic Pick 13

Lines (0)

Point Barriers (0)

Restriction (0)

Added Cost (0)

Line Barriers (0)

Restriction (0)

Scaled Cost (0)

Solve completed

1:28,152 10 B I U A

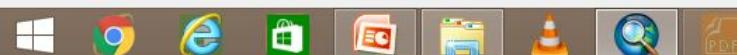
Georeferencing

Flow Analysis

Catalog

Location: projrcted_shp_ND.nd

- hydr_city.shp
- IAGS.shp
- jg.shp
- jg_label.shp
- lhr.shp
- mosque path finder.mxd
- peshawar.shp
- projrcted_shp.shp
- projrcted_shp_ND.nd
- projrcted_shp_ND_Junctions.shp
- quette.shp
- rana jahangeer.mxd
- rana usama mosque.mxd
- road_network.shp
- road_networks.shp
- ROADS.shp
- roads_f.shp
- ROADS1.shp
- ROADS1_ND.nd
- ROADS1_ND_Junctions.shp
- rwp.roads.shp
- Sum_Output.dbf
- Sum_Output_2.dbf
- Sum_Output_3.dbf
- Sum Output 4.dbf





Geostatistical Analyst Network Analyst projrcted_shp_ND

Solve

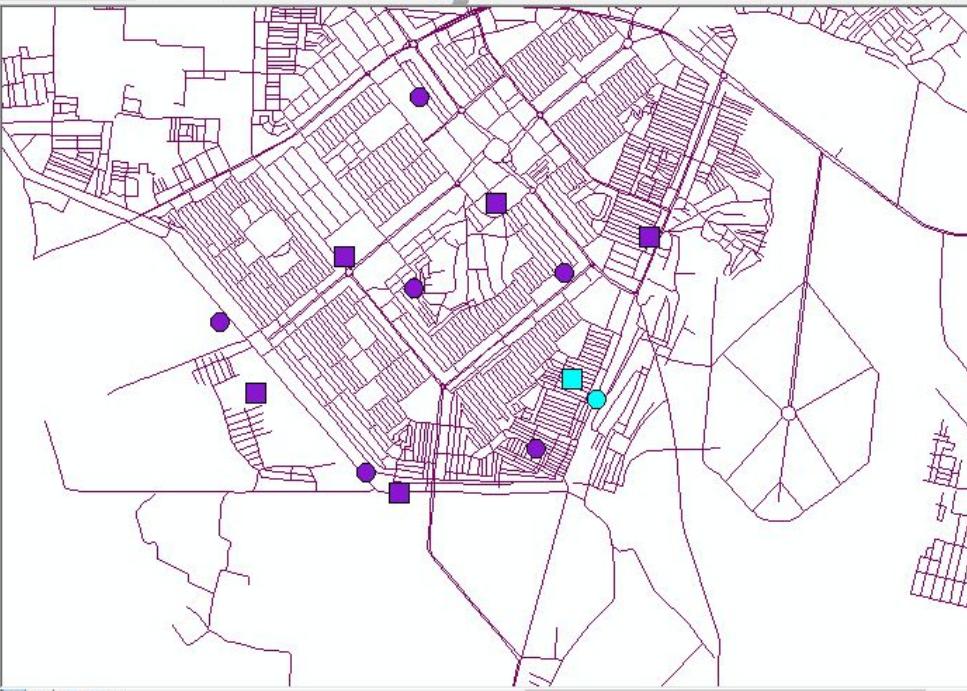
Run the current analysis.



Network Ana... x Table Of Contents

OD Cost Matrix	
Origins (7)	
Graphic Pick 1	?
Graphic Pick 2	Point Barriers
Graphic Pick 3	<input checked="" type="checkbox"/> Error
Graphic Pick 4	<input checked="" type="checkbox"/> Restriction
Graphic Pick 5	<input checked="" type="checkbox"/> Added Cost
Graphic Pick 6	Lines
Graphic Pick 7	<input checked="" type="checkbox"/> Lines
Destinations (6)	Line Barriers
Graphic Pick 8	<input checked="" type="checkbox"/> Restriction
Graphic Pick 9	<input checked="" type="checkbox"/> Scaled Cost
Graphic Pick 10	Polygon Barriers
Graphic Pick 11	<input checked="" type="checkbox"/> Restriction
Graphic Pick 12	<input checked="" type="checkbox"/> Scaled Cost
Graphic Pick 13	D:\projects
Lines (0)	<input checked="" type="checkbox"/> OD Cost Matrix
Point Barriers (0)	<input type="checkbox"/> projrcted_shp_ND_Ju
Point Barriers (0)	<input checked="" type="checkbox"/> projrcted_shp
Point Barriers (0)	<input checked="" type="checkbox"/> projrcted_shp_ND
Line Barriers (0)	Edges
Line Barriers (0)	Restriction (0)
Line Barriers (0)	Scaled Cost (0)

Solve completed



Catalog

Location: projrcted_shp_ND.nd

hydr_city.shp
IAGS.shp
jg.shp
jg_label.shp
lhr.shp
mosque path finder.mxd
peshawar.shp
projrcted_shp.shp
projrcted_shp_ND.nd
projrcted_shp_ND_Junctions.shp
quette.shp
rana jahangeer.mxd
rana usama mosque.mxd
road_network.shp
road_networks.shp
ROADS.shp
roads_f.shp
ROADS1.shp
ROADS1_ND.nd
ROADS1_ND_Junctions.shp
rwp.roads.shp
Sum_Output.dbf
Sum_Output_2.dbf
Sum_Output_3.dbf
Sum Output 4.dbf





Geostatistical Analyst Network Analyst projrcted_shp_ND

Editor Drawing Georeferencing Flow Analysis Find Common Ancestors

Network Ana... Table Of Contents

OD Cost Matrix

Origins (7)

- Graphic Pick 1
- Graphic Pick 2
- Graphic Pick 3
- Graphic Pick 4
- Graphic Pick 5
- Graphic Pick 6
- Graphic Pick 7**

Destinations (6)

- Graphic Pick 8
- Graphic Pick 9
- Graphic Pick 10
- Graphic Pick 11
- Graphic Pick 12
- Graphic Pick 13**

Lines (42)

Point Barriers (0)

Restriction (0)

Added Cost (0)

Line Barriers (0)

Restriction (0)

Scaled Cost (0)

projrcted_shp_ND

Solve completed

1:28,152 10 B I U A

Georeferencing

Flow Analysis

Catalog

Location: projrcted_shp_ND.nd

- hydr_city.shp
- IAGS.shp
- jg.shp
- jg_label.shp
- lhr.shp
- mosque path finder.mxd
- peshawar.shp
- projrcted_shp.shp
- projrcted_shp_ND.nd
- projrcted_shp_ND_Junctions.shp
- quette.shp
- rana jahangeer.mxd
- rana usama mosque.mxd
- road_network.shp
- road_networks.shp
- ROADS.shp
- roads_f.shp
- ROADS1.shp
- ROADS1_ND.nd
- ROADS1_ND_Junctions.shp
- rwp.roads.shp
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- Sum_Output_2.dbf
- Sum_Output_3.dbf
- Sum Output 4.dbf



Geostatistical Analyst Network Analyst projrcted_shp_ND

Editor Drawing Georeferencing Flow Analysis Find Common Ancestors

Network Ana... Table Of Contents

OD Cost Matrix

Origins (7)

- Gr Cut
- Gr Copy
- Gr Paste
- Gr Delete
- Gr Delete All
- Gr Selection
- Gr Open Attribute Table
- Gr Export Data...
- Gr Zoom
- Gr Recalc
- Gr Properties

Lines

Point Barriers (0)

Line Barriers (0)

Solve completed

projrcted_shp

projrcted_shp_ND

Edges

Unlocated Barriers or restriction added Cost

Barriers restriction Scaled Cost

Selection Barriers restriction Scaled Cost

Open Attribute Table

Open this layer's attribute table. Shortcut: CTRL + double-click layer name OR CTRL + T.

Catalog

Location: projrcted_shp_ND.nd

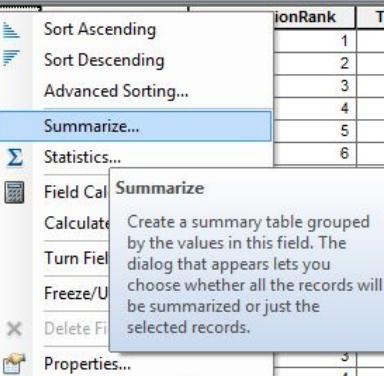
- hydr_city.shp
- IAGS.shp
- jg.shp
- jg_label.shp
- lhr.shp
- mosque path finder.mxd
- peshawar.shp
- projrcted_shp.shp
- projrcted_shp_ND.nd
- projrcted_shp_ND_Junctions.shp
- quette.shp
- rana jahangeer.mxd
- rana usama mosque.mxd
- road_network.shp
- road_networks.shp
- ROADS.shp
- roads_f.shp
- ROADS1.shp
- ROADS1_ND.nd
- ROADS1_ND_Junctions.shp
- rwp.roads.shp
- Sum_Output.dbf
- Sum_Output_2.dbf
- Sum_Output_3.dbf
- Sum Output 4.dbf





Lines

ObjectID	Shape	Name	Orig	ionRank	Total_Length
127	Polyline	Graphic Pick 1 - Graphic Pick 8		1	716.25361
128	Polyline	Graphic Pick 1 - Graphic Pick 11		2	1378.036283
129	Polyline	Graphic Pick 1 - Graphic Pick 9		3	1634.466518
130	Polyline	Graphic Pick 1 - Graphic Pick 13		4	1982.129353
131	Polyline	Graphic Pick 1 - Graphic Pick 12		5	2592.32
132	Polyline	Graphic Pick 1 - Graphic Pick 10		6	2836.806879
133	Polyline	Graphic Pick 2 - Graphic Pick 8			577.685695
134	Polyline	Graphic Pick 2 - Graphic Pick 9			677.723052
135	Polyline	Graphic Pick 2 - Graphic Pick 13			812.80803
136	Polyline	Graphic Pick 2 - Graphic Pick 11			1579.912632
137	Polyline	Graphic Pick 2 - Graphic Pick 12			1685.083637
138	Polyline	Graphic Pick 2 - Graphic Pick 10			2890.444805
139	Polyline	Graphic Pick 3 - Graphic Pick 11			900.347562
140	Polyline	Graphic Pick 3 - Graphic Pick 10			961.590348
141	Polyline	Graphic Pick 3 - Graphic Pick 12		3	1330.82119
142	Polyline	Graphic Pick 3 - Graphic Pick 8		4	1889.05432
143	Polyline	Graphic Pick 3 - Graphic Pick 13	3	6	2482.188434
144	Polyline	Graphic Pick 3 - Graphic Pick 9	3	2	2905.281717
145	Polyline	Graphic Pick 4 - Graphic Pick 12	4	5	227.747564
146	Polyline	Graphic Pick 4 - Graphic Pick 10	4	3	1164.553185
147	Polyline	Graphic Pick 4 - Graphic Pick 11	4	4	1587.207424
148	Polyline	Graphic Pick 4 - Graphic Pick 13	4	6	1598.640291
149	Polyline	Graphic Pick 4 - Graphic Pick 8	4	1	2227.159757
150	Polyline	Graphic Pick 4 - Graphic Pick 9	4	2	2475.221497
151	Polyline	Graphic Pick 5 - Graphic Pick 13	5	6	576.096016
152	Polyline	Graphic Pick 5 - Graphic Pick 12	5	5	958.305772
153	Polyline	Graphic Pick 5 - Graphic Pick 9	5	2	1491.546936
154	Polyline	Graphic Pick 5 - Graphic Pick 11	5	4	1557.616601
155	Polyline	Graphic Pick 5 - Graphic Pick 8	5	1	1718.182296
156	Polyline	Graphic Pick 5 - Graphic Pick 10	5	3	2171.64782
157	Polyline	Graphic Pick 6 - Graphic Pick 11	6	4	602.817147
158	Polyline	Graphic Pick 6 - Graphic Pick 8	6	1	862.170319
159	Polyline	Graphic Pick 6 - Graphic Pick 13	6	6	1301.274614
160	Polyline	Graphic Pick 6 - Graphic Pick 12	6	5	1562.74265
161	Polyline	Graphic Pick 6 - Graphic Pick 9	6	2	1742.80174
162	Polyline	Graphic Pick 6 - Graphic Pick 10	6	3	1959.185908
163	Polyline	Graphic Pick 7 - Graphic Pick 13	7	6	290.18038
164	Polyline	Graphic Pick 7 - Graphic Pick 9	7	2	946.306859
165	Polyline	Graphic Pick 7 - Graphic Pick 12	7	5	1365.084476





Lines

ObjectID	Shape	Name	OriginID	DestinationID	DestinationRank	Total_Length
127	Polyline	Graphic Pick 1 - Graphic Pick 8	1	1	1	716.25361
128	Polyline	Graphic Pick 1 - Graphic Pick 11	1	1	2	1370.036002
129	Polyline	Graphic Pick 1 - Graphic Pick 9	1			
130	Polyline	Graphic Pick 1 - Graphic Pick 13	1			
131	Polyline	Graphic Pick 1 - Graphic Pick 12	1			
132	Polyline	Graphic Pick 1 - Graphic Pick 10	1			
133	Polyline	Graphic Pick 2 - Graphic Pick 8	2			
134	Polyline	Graphic Pick 2 - Graphic Pick 9	2			
135	Polyline	Graphic Pick 2 - Graphic Pick 13	2			
136	Polyline	Graphic Pick 2 - Graphic Pick 11	2			
137	Polyline	Graphic Pick 2 - Graphic Pick 12	2			
138	Polyline	Graphic Pick 2 - Graphic Pick 10	2			
139	Polyline	Graphic Pick 3 - Graphic Pick 11	3			
140	Polyline	Graphic Pick 3 - Graphic Pick 10	3			
141	Polyline	Graphic Pick 3 - Graphic Pick 12	3			
142	Polyline	Graphic Pick 3 - Graphic Pick 8	3			
143	Polyline	Graphic Pick 3 - Graphic Pick 13	3			
144	Polyline	Graphic Pick 3 - Graphic Pick 9	3			
145	Polyline	Graphic Pick 4 - Graphic Pick 12	4			
146	Polyline	Graphic Pick 4 - Graphic Pick 10	4			
147	Polyline	Graphic Pick 4 - Graphic Pick 11	4			
148	Polyline	Graphic Pick 4 - Graphic Pick 13	4			
149	Polyline	Graphic Pick 4 - Graphic Pick 8	4			
150	Polyline	Graphic Pick 4 - Graphic Pick 9	4			
151	Polyline	Graphic Pick 5 - Graphic Pick 13	5			
152	Polyline	Graphic Pick 5 - Graphic Pick 12	5			
153	Polyline	Graphic Pick 5 - Graphic Pick 9	5			
154	Polyline	Graphic Pick 5 - Graphic Pick 11	5			
155	Polyline	Graphic Pick 5 - Graphic Pick 8	5			
156	Polyline	Graphic Pick 5 - Graphic Pick 10	5			
157	Polyline	Graphic Pick 6 - Graphic Pick 11	6			
158	Polyline	Graphic Pick 6 - Graphic Pick 8	6			
159	Polyline	Graphic Pick 6 - Graphic Pick 13	6			
160	Polyline	Graphic Pick 6 - Graphic Pick 12	6			
161	Polyline	Graphic Pick 6 - Graphic Pick 9	6			
162	Polyline	Graphic Pick 6 - Graphic Pick 10	6			
163	Polyline	Graphic Pick 7 - Graphic Pick 13	7			
164	Polyline	Graphic Pick 7 - Graphic Pick 9	7			
165	Polyline	Graphic Pick 7 - Graphic Pick 12	7			

Summarize

Summarize creates a new table containing one record for each unique value of the selected field, along with statistics summarizing any of the other fields.

- Select a field to summarize:
OriginID
- Choose one or more summary statistics to be included in the output table:
 - + Name
 - + DestinationID
 - + DestinationRank
 - Total_Length
 - Minimum
 - Maximum
 - Average
 - Sum
 - Standard Deviation
 - Variance
- Specify output table:
D:\projects\Sum_Output_6.dbf

Summarize on the selected records only

[About summarizing data](#) **OK** **Cancel**

6	3	1301.274614
5	4	1562.74265
2	5	1742.80174
3	6	1959.185908
6	1	290.18038
2	2	946.306859
5	3	1365.084476



ObjectID	Shape	Name	OriginID	DestinationID	DestinationRank	Total_Length
127	Polyline	Graphic Pick 1 - Graphic Pick 8	1	1	1	716.25361
128	Polyline	Graphic Pick 1 - Graphic Pick 11	1	1	2	1070.00000
129	Polyline	Graphic Pick 1 - Graphic Pick 9	1	1	3	1070.00000
130	Polyline	Graphic Pick 1 - Graphic Pick 13	1	1	4	1070.00000
131	Polyline	Graphic Pick 1 - Graphic Pick 12	1	1	5	1070.00000
132	Polyline	Graphic Pick 1 - Graphic Pick 10	1	1	6	1070.00000
133	Polyline	Graphic Pick 2 - Graphic Pick 8	2	1	1	716.25361
134	Polyline	Graphic Pick 2 - Graphic Pick 9	2	1	2	1070.00000
135	Polyline	Graphic Pick 2 - Graphic Pick 13	2	1	3	1070.00000
136	Polyline	Graphic Pick 2 - Graphic Pick 11	2	1	4	1070.00000
137	Polyline	Graphic Pick 2 - Graphic Pick 12	2	1	5	1070.00000
138	Polyline	Graphic Pick 2 - Graphic Pick 10	2	1	6	1070.00000
139	Polyline	Graphic Pick 3 - Graphic Pick 11	3	1	1	716.25361
140	Polyline	Graphic Pick 3 - Graphic Pick 10	3	1	2	1070.00000
141	Polyline	Graphic Pick 3 - Graphic Pick 12	3	1	3	1070.00000
142	Polyline	Graphic Pick 3 - Graphic Pick 8	3	1	4	1070.00000
143	Polyline	Graphic Pick 3 - Graphic Pick 13	3	1	5	1070.00000
144	Polyline	Graphic Pick 3 - Graphic Pick 9	3	1	6	1070.00000
145	Polyline	Graphic Pick 4 - Graphic Pick 12	4	1	1	716.25361
146	Polyline	Graphic Pick 4 - Graphic Pick 10	4	1	2	1070.00000
147	Polyline	Graphic Pick 4 - Graphic Pick 11	4	1	3	1070.00000
148	Polyline	Graphic Pick 4 - Graphic Pick 13	4	1	4	1070.00000
149	Polyline	Graphic Pick 4 - Graphic Pick 8	4	1	5	1070.00000
150	Polyline	Graphic Pick 4 - Graphic Pick 9	4	1	6	1070.00000
151	Polyline	Graphic Pick 5 - Graphic Pick 13	5	1	1	716.25361
152	Polyline	Graphic Pick 5 - Graphic Pick 12	5	1	2	1070.00000
153	Polyline	Graphic Pick 5 - Graphic Pick 9	5	1	3	1070.00000
154	Polyline	Graphic Pick 5 - Graphic Pick 11	5	1	4	1070.00000
155	Polyline	Graphic Pick 5 - Graphic Pick 8	5	1	5	1070.00000
156	Polyline	Graphic Pick 5 - Graphic Pick 10	5	1	6	1070.00000
157	Polyline	Graphic Pick 6 - Graphic Pick 11	6	1	1	716.25361
158	Polyline	Graphic Pick 6 - Graphic Pick 8	6	1	2	1070.00000
159	Polyline	Graphic Pick 6 - Graphic Pick 13	6	1	3	1301.274614
160	Polyline	Graphic Pick 6 - Graphic Pick 12	6	1	4	1562.74265
161	Polyline	Graphic Pick 6 - Graphic Pick 9	6	1	5	1742.80174
162	Polyline	Graphic Pick 6 - Graphic Pick 10	6	1	6	1959.185908
163	Polyline	Graphic Pick 7 - Graphic Pick 13	7	1	1	290.18038
164	Polyline	Graphic Pick 7 - Graphic Pick 9	7	1	2	946.306859
165	Polyline	Graphic Pick 7 - Graphic Pick 12	7	1	3	1365.084476

Summarize

Summarize creates a new table containing one record for each unique value of the selected field, along with statistics summarizing any of the other fields.

- Select a field to summarize:
OriginID
- Choose one or more summary statistics to be included in the Working...

Summarize Completed

Do you want to add the result table in the map?

Yes No

- Specify output table:
D:\projects\Sum_Output_6.dbf
- Summarize on the selected records only

About summarizing data

OK Cancel



Geostatistical Analyst Network Analyst projrcted_shp_ND

Editor Drawing Georeferencing Flow Analysis Find Common Ancestors

Network Ana... Table Of Contents

OD Cost Matrix

Origins (7)

- Graphic Pick 1
- Graphic Pick 2
- Graphic Pick 3
- Graphic Pick 4
- Graphic Pick 5
- Graphic Pick 6
- Graphic Pick 7**

Destinations (6)

- Graphic Pick 8
- Graphic Pick 9
- Graphic Pick 10
- Graphic Pick 11
- Graphic Pick 12
- Graphic Pick 13**

Lines (42)

Point Barriers (0)

Restriction (0)

Added Cost (0)

Line Barriers (0)

Restriction (0)

Scaled Cost (0)

projrcted_shp_ND_Junctions.shp

projrcted_shp_ND

Sum_Output_6

Catalog

Location: projrcted_shp_ND.nd

- hydr_city.shp
- IAGS.shp
- jg.shp
- jg_label.shp
- lhr.shp
- mosque path finder.mxd
- peshawar.shp
- projrcted_shp_ND.nd
- projrcted_shp_ND_Junctions.shp
- quette.shp
- rana jahangeer.mxd
- rana usama mosque.mxd
- road_network.shp
- road_networks.shp
- ROADS.shp
- roads_f.shp
- ROADS1.shp
- ROADS1_ND.nd
- ROADS1_ND_Junctions.shp
- rwp.roads.shp
- Sum_Output.dbf
- Sum_Output_2.dbf
- Sum_Output_3.dbf
- Sum Output 4.dbf



Geostatistical Analyst Network Analyst projrcted_shp_ND

Editor Drawing Georeferencing Flow Analysis Find Common Ancestors

Network Ana... Table Of Contents

OD Cost Matrix

Origins (7)

- Graphic Pick 1
- Graphic Pick 2
- Graphic Pick 3
- Graphic Pick 4
- Graphic Pick 5
- Graphic Pick 6
- Graphic Pick 7**

Destinations (6)

- Graphic Pick 8
- Graphic Pick 9
- Graphic Pick 10
- Graphic Pick 11
- Graphic Pick 12
- Graphic Pick 13**

Lines (42)

Point Barriers (0)

Added Cost (0)

Line Barriers (0)

Restriction (0)

Scaled Cost (0)

Sum_Output_0

Unlocated Point Barriers Error Restriction Added Cost Lines Line Barriers Restriction Scale Cost Polygons OD Cost Matrix projectd_shp_ND projectd_shp_ND.nd projectd_shp_ND_Junctions.shp quetta.shp rana_jahangeer.mxd rana_usama_mosque.mxd road_network.shp ROADS.shp roads_f.shp ROADS1.shp ROADS1_ND.nd ROADS1_ND_Junctions.shp rwp.roads.shp Sum_Output.dbf Sum_Output_2.dbf Sum_Output_3.dbf Sum Output 4.dbf

Open

Join

Remove

Data

Edit

Geocode Addresses...

Display Route Events...

Display XY Data...

Properties...

Open

Open

Open this table. Shortcut: CTRL + double-click table name OR CTRL + T.

Catalog

Location: projrcted_shp_ND.nd

Table



Sum_Output_6

OID	OriginID	Count_OriginID	Minimum_Total_Length	Maximum_Total_Length	Average_Total_Length	Sum_Total_Length	StdDev_Total_Length	Variance_Total_Length
0	1	6	716.25361	2836.806879	1856.6688	11140.012643	786.9693	619320.688
1	2	6	577.685695	2890.444805	1370.6096	8223.657851	880.064	774512.6814
2	3	6	900.347562	2905.281717	1744.8806	10469.283572	825.7317	681832.9049
3	4	6	227.747564	2475.221497	1546.755	9280.529719	801.8963	643037.5993
4	5	6	576.096016	2171.64782	1412.2326	8473.395442	566.201	320583.5832
5	6	6	602.817147	1959.185908	1338.4987	8030.992378	523.1636	273700.1228
6	7	6	290.18038	2578.426523	1418.8989	8513.393288	778.6318	606267.431

Table



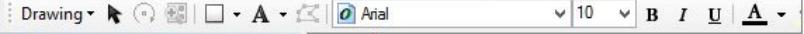
Sum_Output_5

OID	OriginID	Count_OriginID	Minimum_Total_Length	Maximum_Total_Length	Average_Total_Length	Sum_Total_Length	StdDev_Total_Length	Variance_Total_Length
0	1	6	716.25361	2836.806879	1856.6688	11140.012643	786.9693	619320.688
1	2	6	577.685695	2890.444805	1370.6096	8223.657851	880.064	774512.6814
2	3	6	900.347562	2905.281717	1744.8806	10469.283572	825.7317	681832.9049
3	4	6	227.747564	2475.221497	1546.755	9280.529719	801.8963	643037.5993
4	5	6	576.096016	2171.64782	1412.2326	8473.395442	566.201	320583.5832
5	6	6	602.817147	1959.185908	1338.4987	8030.992378	523.1636	273700.1228
6	7	6	290.18038	2578.426523	1418.8989	8513.393288	778.6318	606267.431

Service area

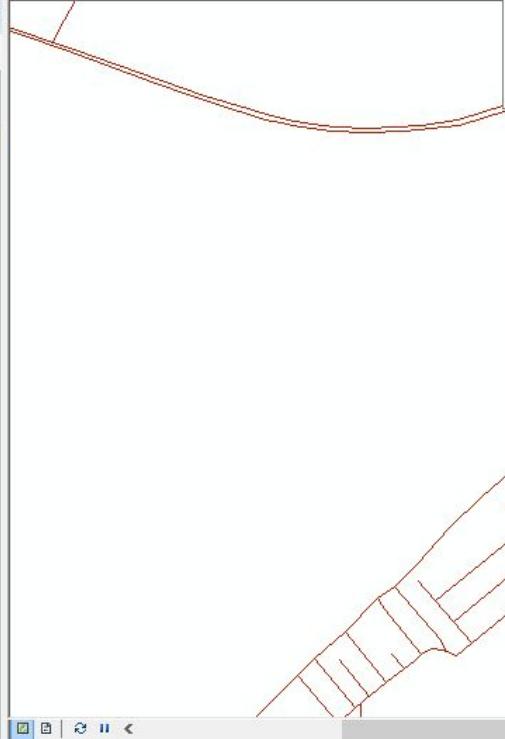
A network service area is a region that encompasses all accessible streets (that is, streets that are within a specified impedance). For instance, the 5-minute service area for a point includes all the streets that can be reached within five minutes from that point.

Service areas created by Network Analyst also help evaluate accessibility. Concentric service areas show how accessibility varies with impedance. Once built, you can use service areas to identify how many people, how much land, or the quantity of anything else that is within the neighborhood.



Layers

- D:\projects
 - projcted_shp_ND_Junct
 - projcted_shp
 - Edges
 - projcted_shp



Network Analyst

New Route

New Service Area

New Closest Facility

New Network Location

New Network Proximity

Optimize Network

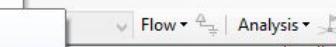
New Network Location

New Network Proximity

The service area solver generates polygons or lines that encompass all edges within a given distance, travel time, or other impedance unit from a facility.

Disabled if a network dataset layer is not in the table of contents.

projcted_shp_ND



Catalog

Location: projects

- projects
 - liaqt
 - navi
 - projects
 - rana jahangeer
 - rana sb
 - Sir Naeem project semester 3 ge
 - sultan
 - water_supply.gdb
 - boundry.shp
 - Export_Output.shp
 - Export_Output_2.shp
 - Export_Output_3.shp
 - Export_Output_4.shp
 - fsd_shp.shp
 - gas_pipeline alternative route.m
 - hyd_roads.shp
 - hyderabad.shp
 - hyderabad_navig.nd
 - hyderabad_navig_Junctions.shp
 - hyderabad1.shp
 - hydrbd_line_city.shp
 - hydr_city.shp
 - IAGS.shp
 - lhr.shp

Geostatistical Analyst Network Analyst projrcted_shp_ND

Editor Drawing B I U A Anal Flow Analysis Find Common Ancestors

Network Ana... Table Of Contents

Service Area

- Facilities**
 - Cut
 - Copy
 - Paste
 - Delete
 - Delete All**
 - Selection
 - Open Attribute Table
 - Export Data...
 - Zoom To Layer
 - Find Address...
 - Load Locations...**
 - Load Locations
 - Properties
- Polygons**
 - Lines (0)
- Point Bar**
 - Restr...
 - Add...
- Line Barr**
 - Restr...
 - Scaled...
- Polygon Bar**
 - Restr...
 - Scaled...

A3087-4

Catalog

Location: stores.shp

- PDFs
- presentations
- projects
 - liagt
 - navi
 - project
 - rana jahangeer
 - rana sb
- Sir Naeem project semester 3 ge...
- sultan
 - sewerage.gdb
 - dem31h101.tif
 - sewage_pipes.shp
 - stores.shp
 - sultan sewage system.mxd
 - Water-ways.shp
 - water_supply.gdb
 - boundry.shp
 - Export_Output.shp
 - Export_Output_2.shp
 - Export_Output_3.shp
 - Export_Output_4.shp
 - fsd_shp.shp
 - gas_pipeline alternative route.m...
 - hvd roads.shp

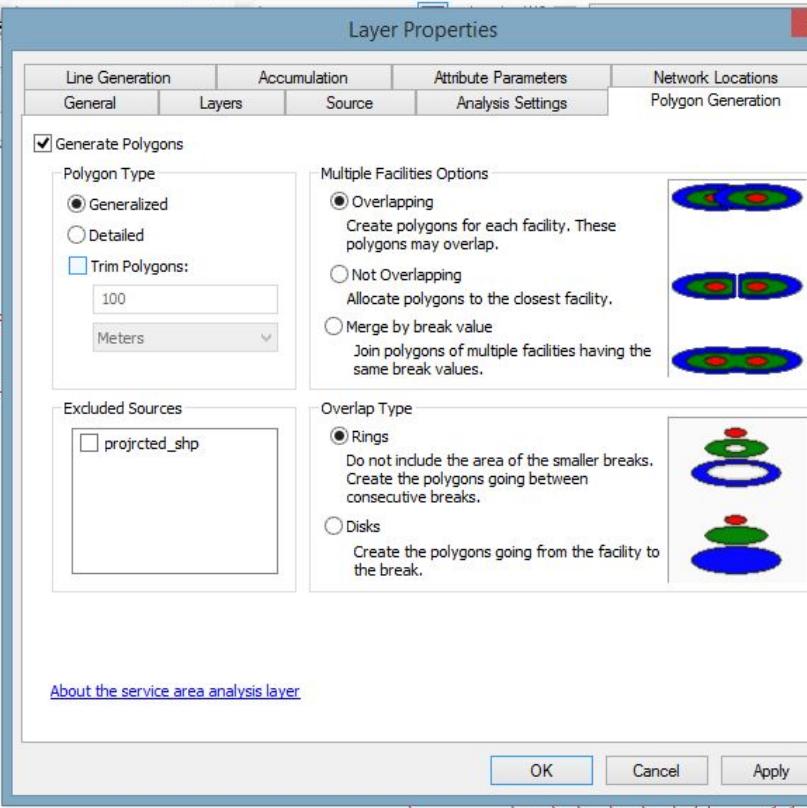
-171227.268 2822106.805 Meters



Network Ana... Table Of Contents

Service Area

- Facilities (4)**
 - Polygons (0)
 - Lines (0)
- Point Barriers (0)
 - Restriction (0)
 - Added Cost (0)
- Line Barriers (0)
 - Restriction (0)
 - Scaled Cost (0)
- Polygon Barriers (0)**
 - Restriction (0)
 - Scaled Cost (0)



Find Common Ancestors

Catalog

Location: stores.shp

- PDFs
- presentations
- projects
 - liagt
 - navi
 - project
 - rana jahangeer
 - rana sb
- Sir Naeem project semester 3 ge...
- sultan
 - sewerage.gdb
 - dem31h101.tif
 - sewage_pipes.shp
 - stores.shp
 - sultan sewage system.mxd
 - Water-ways.shp
- water_supply.gdb
- boundry.shp
- Export_Output.shp
- Export_Output_2.shp
- Export_Output_3.shp
- Export_Output_4.shp
- fsd_shp.shp
- gas_pipeline alternative route.m...
- hvd roads.shp



Network Ana... Table Of Contents

Service Area

- + Facilities (4)
 - Polygons (0)
 - Lines (0)
 - Point Barriers (0)
 - Restriction (0)
 - Added Cost (0)
 - Line Barriers (0)
 - Restriction (0)
 - Scaled Cost (0)
 - Polygon Barriers (0)
 - Restriction (0)
 - Scaled Cost (0)

Layer Properties

Line Generation	Accumulation	Attribute Parameters	Network Locations
General	Layers	Source	Analysis Settings
			Polygon Generation

Settings

Impedance: Time (Minutes)

Default Breaks: 1 2 3

Use Time:
 Day of Week: Today
 Specific Date: 5/ 9/2018

Direction: Away From Facility Towards Facility

U-Turns at Junctions: Allowed

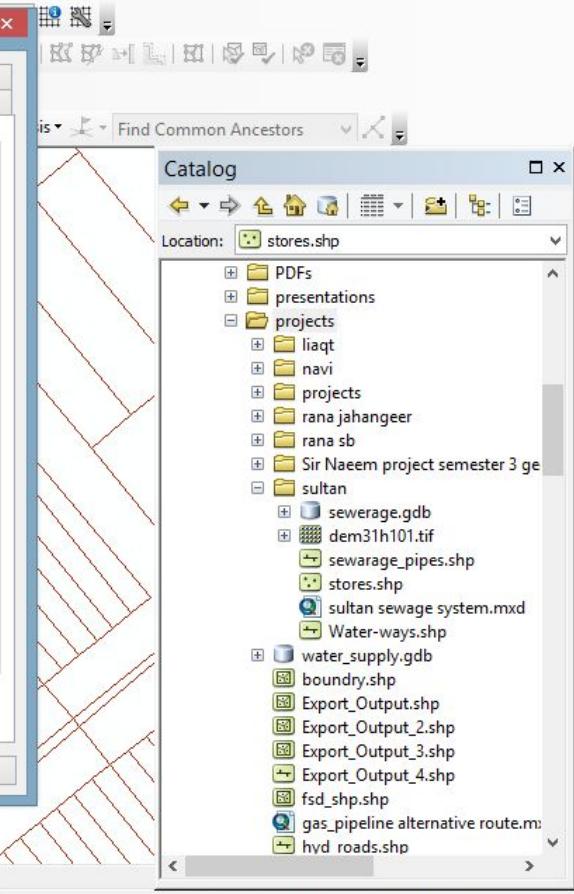
Use Hierarchy
 Ignore Invalid Locations

[About the service area analysis layer](#)

Restrictions

Avoid Limited Access Roads
 Avoid Toll Roads
 Avoid Unpaved Roads
 Oneway

OK **Cancel** **Apply**



Find Common Ancestors

Catalog

Location: stores.shp

- + PDFs
- + presentations
- + projects
 - + liagt
 - + navi
 - + project
 - + rana jahangeer
 - + rana sb
- + Sir Naeem project semester 3 ge...
- + sultan
 - + sewerage.gdb
 - + dem31h101.tif
 - + sewerage_pipes.shp
 - + stores.shp
 - + sultan sewage system.mxd
 - + Water-ways.shp
 - + water_supply.gdb
 - + boundry.shp
 - + Export_Output.shp
 - + Export_Output_2.shp
 - + Export_Output_3.shp
 - + Export_Output_4.shp
 - + fsd_shp.shp
 - + gas_pipeline alternative route.m...
 - + hvd roads.shp

Load completed - 4 Fa...



-171255.847 2822165.467 Meters



Network Ana... x Table Of Contents

Service Area

- + Facilities (4)
 - Polygons (0)
 - Lines (0)
 - Point Barriers (0)
 - Restriction (0)
 - Added Cost (0)
 - Line Barriers (0)
 - Restriction (0)
 - Scaled Cost (0)
 - Polygon Barriers (0)
 - Restriction (0)
 - Scaled Cost (0)



Catalog

Location: stores.shp

- + PDFs
- + presentations
- projects
 - + liagt
 - + navi
 - + project
 - + rana jahangeer
 - + rana sb
- Sir Naeem project semester 3 ge...
- sultan
 - + sewerage.gdb
 - + dem31h101.tif
 - + sewerage_pipes.shp
 - + stores.shp
 - + sultan sewage system.mxd
 - + Water-ways.shp
 - + water_supply.gdb
 - + boundry.shp
 - + Export_Output.shp
 - + Export_Output_2.shp
 - + Export_Output_3.shp
 - + Export_Output_4.shp
 - + fsd_shp.shp
 - + gas_pipeline alternative route.m...
 - + hvd roads.shp

Load completed - 4 Fa...

-170834.685 2822160.954 Meters



8:09 PM

5/9/2018



Geostatistical Analyst Network Analyst projrcted_shp_ND



Editor Drawing Anal

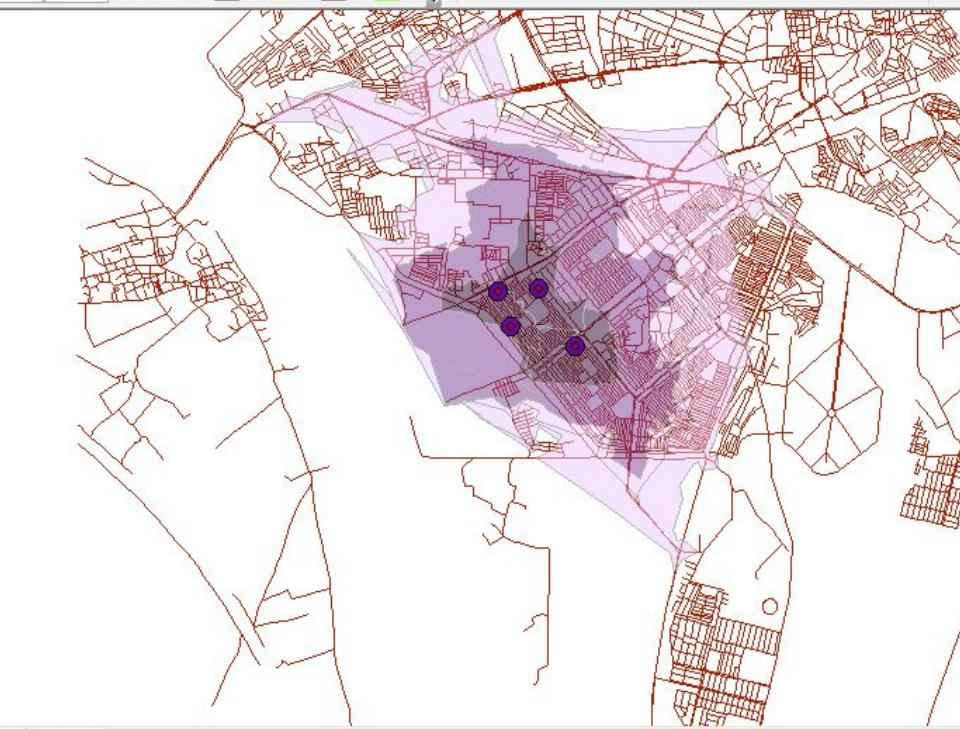
Flow Analysis Find Common Ancestors

Network Ana... Table Of Contents

Service Area

- + Facilities (4)
 - Polygons (12)
 - Lines (0)
 - Point Barriers (0)
 - Restriction (0)
 - Added Cost (0)
 - Line Barriers (0)
 - Restriction (0)
 - Scaled Cost (0)
 - Polygon Barriers (0)
 - Restriction (0)
 - Scaled Cost (0)

Solve completed



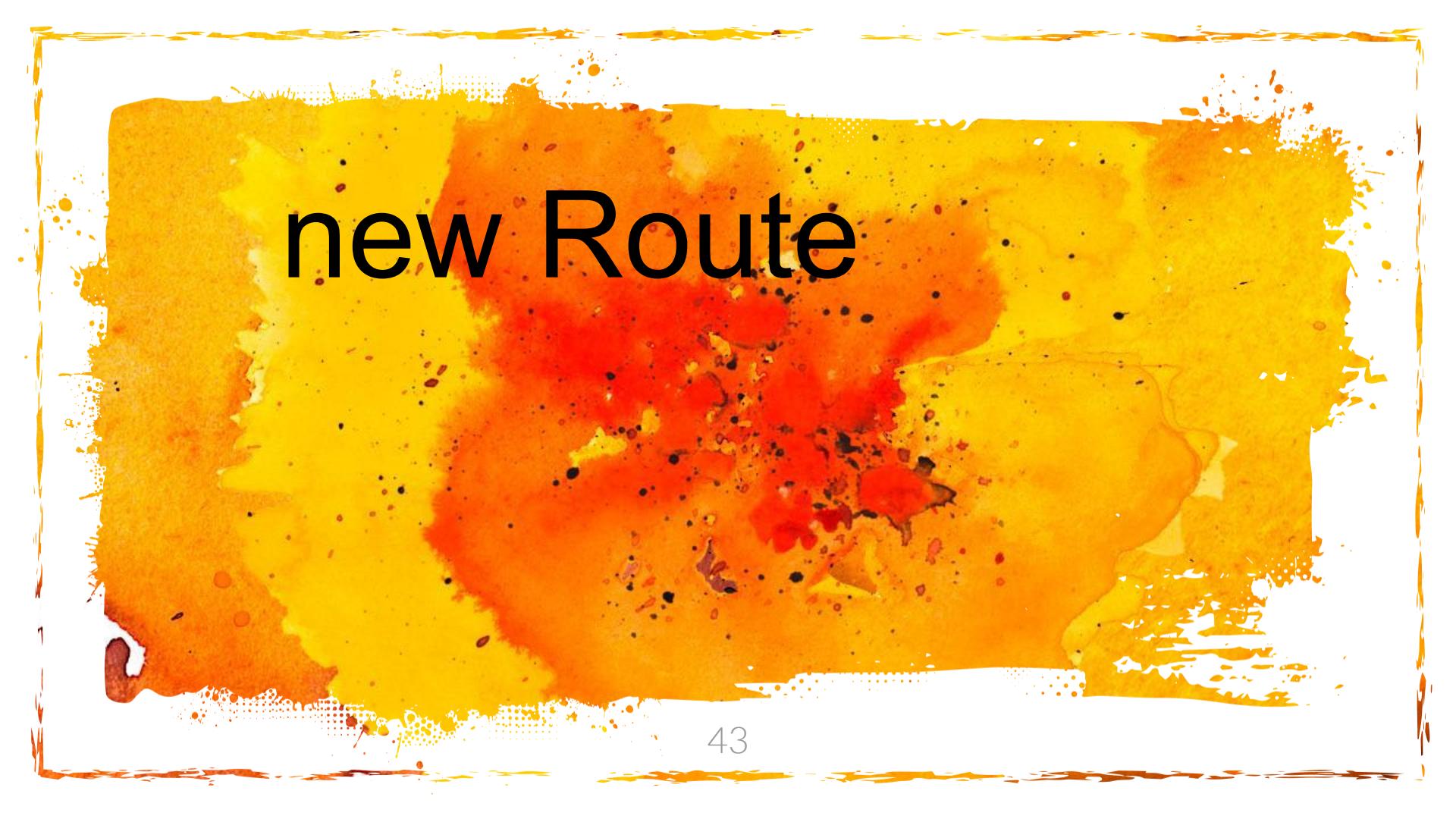
Catalog

Location: stores.shp

- PDFs
- presentations
- projects
 - + liagt
 - + navi
 - + project
 - + rana jahangeer
 - + rana sb
- Sir Naeem project semester 3 ge
- sultan
 - sewerage.gdb
 - dem31h101.tif
 - sewerage_pipes.shp
 - stores.shp
 - sultan sewage system.mxd
 - Water-ways.shp
 - water_supply.gdb
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 - Export_Output.shp
 - Export_Output_2.shp
 - Export_Output_3.shp
 - Export_Output_4.shp
 - fsd_shp.shp
 - gas_pipeline alternative route.m
 - hvd roads.shp

-168316.121 2820084.459 Meters





new Route

Untitled - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help



Geostatistical Analyst

Network Analyst

projrcted_shp_ND



1:17.073



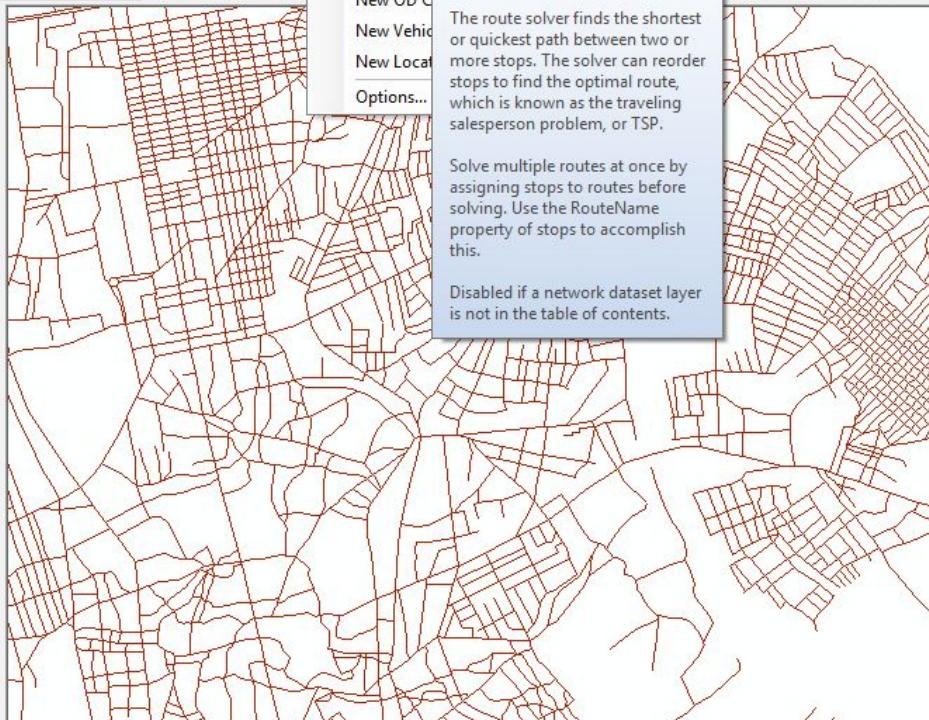
Editor Drawing Anal

B I U A

Network Ana... Table Of Contents

Layers

- D:\projects\sultan
 - dest
 - stores
- D:\projects
 - projrcted_shp_ND_Junct
 - projrcted_shp
 - Edges
 - projrcted_shp
 - Sum_Output



Flow Analysis Find Common Ancestors

Catalog

Create Features



<Search>



dest



stores



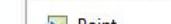
dest



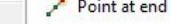
stores



Construction Tools



Point



Point at end of line

-167809.948 2826699.265 Meters

8:36 PM

5/9/2018





Geostatistical Analyst Network Analyst projrcted_shp_ND



Drawing | Flow Analysis | Find Common Ancestors

Network Ana... Table Of Contents

Route

- Stops (3)**
 - 1 Graphic Pick 1
 - 2 Graphic Pick 2
 - 3 Graphic Pick 3
- Routes (0)**
- Point Barriers (0)**
 - Restriction (0)
 - Added Cost (0)
- Line Barriers (0)**
 - Restriction (0)
 - Scaled Cost (0)
- Polygon Barriers (0)**
 - Restriction (0)
 - Scaled Cost (0)

Layers

- Route(7E64F1F2-BF7E-4...**
 - Stops
 - Located
 - Unlocated
 - Error
 - Time Violation
 - Point Barriers
 - Error
 - Restriction
 - Added Cost
 - Routes
 - Routes
 - Line Barriers
 - Restriction
 - Scaled Cost
 - Polygon Barriers
 - Restriction
 - Scaled Cost
- D:\projects**
 - Route
 - projrcted_shp_ND_Ju...
 - projrcted_shp



Catalog

Create Features

<Search>

dest

dest

stores

stores

Construction Tools

Point

Point at end of line

-167150.414 2826378.533 Meters



8:37 PM
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Geostatistical Analyst Network Analyst projrcted_shp_ND



Network Ana... x Table Of Contents

Route

- Stops (3)**
 - 1 Graphic Pick 1
 - 2 Graphic Pick 2
 - 3 Graphic Pick 3
- Routes (1)**
- Point Barriers (0)**
 - Restriction (0)
 - Added Cost (0)
- Line Barriers (0)**
 - Restriction (0)
 - Scaled Cost (0)
- Polygon Barriers (0)**
 - Restriction (0)
 - Scaled Cost (0)

Layers

- Route(7E64F1F2-BF7E-4...**
 - Stops
 - Located
 - Unlocated
 - Error
 - Time Violation
 - Point Barriers
 - Error
 - Restriction
 - Added Cost
 - Routes
 - Routes
 - Line Barriers
 - Restriction
 - Scaled Cost
 - Polygon Barriers
 - Restriction
 - Scaled Cost
- D:\projects**
 - Route
 - projrcted_shp_ND_Ju...
 - projrcted_shp

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Construction Tools

Point

Point at end of line





Geostatistical Analyst Network Analyst projrcted_shp_ND



Network Ana... x Table Of Contents x

Route

- Stops (3)
 - Graphic Pick 1
 - Graphic Pick 2
 - Graphic Pick 3
- Routes (1)
- Point Barriers (0)
 - Restriction (0)
 - Added Cost (0)
- Line Barriers (0)
 - Restriction (0)
 - Scaled Cost (0)
- Polygon Barriers (0)
 - Restriction (0)
 - Scaled Cost (0)

Layers

- Route(7E64F1F2-BF7E-4)
- Stops
 - Located
 - Unlocated
 - Error
 - Time Violation
- Point Barriers
 - Error
 - Restriction
 - Added Cost
- Routes
 - Routes
- Line Barriers
 - Restriction
 - Scaled Cost
- Polygon Barriers
 - Restriction
 - Scaled Cost
- D:\projects
 - Route
 - projrcted_shp_ND_Ju
 - projrcted_shp

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dest

- dest

stores

- stores

Construction Tools

- Point
- Point at end of line

-168424.309 2825953.901 Meters



8:37 PM

5/9/2018



Network Ana... x Table Of Contents

Route

- Stops (3)**
 - 1 Graphic Pick 1
 - 2 Graphic Pick 2
 - 3 Graphic Pick 3
- Routes (1)**
 - Point Barriers (1)**
 - Restriction (1)
 - X Graphic Pick
 - Added Cost (0)
 - Line Barriers (0)**
 - Restriction (0)
 - Scaled Cost (0)
 - Polygon Barriers (0)**
 - Restriction (0)
 - Scaled Cost (0)

Layers

- Route(7E64F1F2-BF7E-4...**
- Stops**
 - Located
 - Unlocated
 - Error
 - Time Violation
- Point Barriers**
 - Error
 - Restriction
 - Added Cost
- Routes**
 - Routes
- Line Barriers**
 - Restriction
 - Scaled Cost
- Polygon Barriers**
 - Restriction
 - Scaled Cost
- D:\projects**
 - Route**
 - projrcted_shp_ND_Ju...**
 - projrcted_shp**

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Create Features

dest

stores

Construction Tools

Point

Point at end of line

-167227.209 2825859.036 Meters



Geostatistical Analyst Network Analyst projrcted_shp_ND



Network Ana... x Table Of Contents

Route

- Stops (3)**
 - 1 Graphic Pick 1
 - 2 Graphic Pick 2
 - 3 Graphic Pick 3
- Routes (1)**
 - Point Barriers (1)
 - Graphic Pick 4
 - Added Cost (0)
- Line Barriers (0)
 - Restriction (0)
 - Scaled Cost (0)
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 - Restriction (0)
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Layers

- Route(7E64F1F2-BF7E-4)
 - Stops
 - Located
 - Unlocated
 - Error
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 - Error
 - Restriction
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 - Routes
 - Routes
 - Line Barriers
 - Restriction
 - Scaled Cost
 - Polygon Barriers
 - Restriction
 - Scaled Cost
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Map View

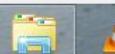
Catalog

Create Features

- dest
 - dest
- stores
 - stores

Construction Tools

- Point
- Point at end of line





Geostatistical Analyst Network Analyst projrcted_shp_ND



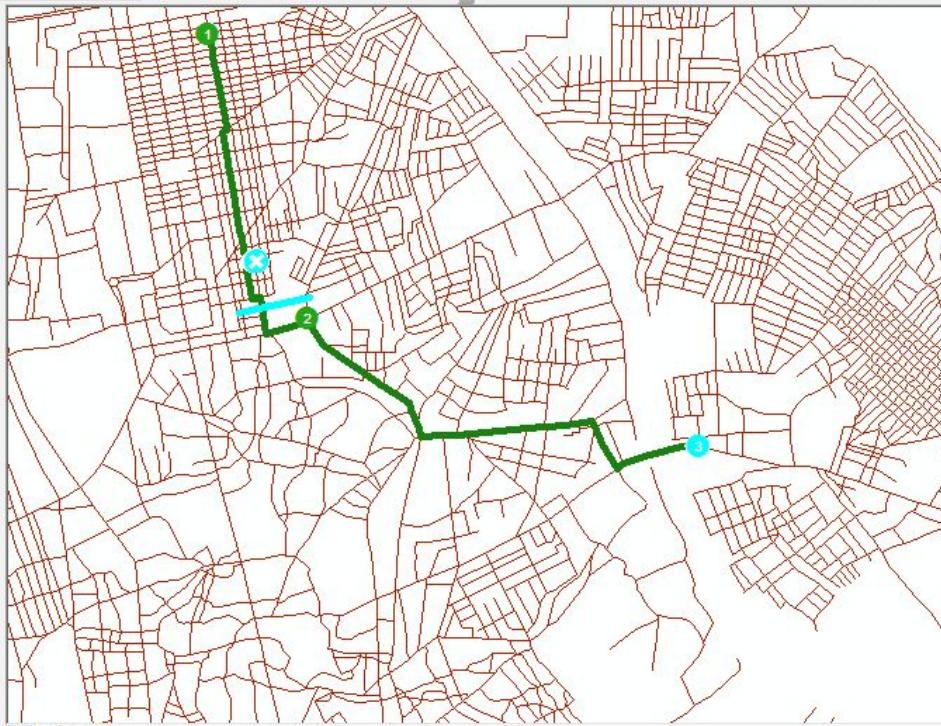
Drawing | Flow Analysis | Find Common Ancestors



Network Ana... Table Of Contents

Route

- Stops (3)**
 - 1 Graphic Pick 1
 - 2 Graphic Pick 2
 - 3 Graphic Pick 3
- Routes (1)**
 - Restriction (1)
 - Graphic Pick 4
 - Added Cost (0)
- Line Barriers (1)**
 - Restriction (1)
 - Graphic Pick 5
 - Scaled Cost (0)
- Polygon Barriers (0)**
 - Restriction (0)
 - Scaled Cost (0)



Catalog

Create Features

<Search>

- dest
 - dest
- stores
 - stores

Construction Tools

- Point
- Point at end of line

-167159.449 2826446.293 Meters

8:37 PM

5/9/2018





Geostatistical Analyst Network Analyst projrcted_shp_ND



Network Ana... x Table Of Contents x

Route

Stops (3)

- 1 Graphic Pick 1
- 2 Graphic Pick 2
- 3 Graphic Pick 3

Routes (1)

Point Barriers (1)

Restriction (1)

- Graphic Pick 4
- Added Cost (0)

Line Barriers (1)

Restriction (1)

- Graphic Pick 5
- Scaled Cost (0)

Polygon Barriers (0)

Restriction (0)

Scaled Cost (0)

Layers

- Route(7E64F1F2-BF7E-4)
- Stops
 - Located (Green circle)
 - Unlocated (Grey circle)
 - Error (Red circle)
 - Time Violation (Red square)
- Point Barriers
 - Error (Red circle)
 - Restriction (Red circle)
 - Added Cost (Red circle)
- Routes
 - Routes (Green line)
- Line Barriers
 - Restriction (Red line)
 - Scaled Cost (Red line)
- Polygon Barriers
 - Restriction (Red line)
 - Scaled Cost (Red line)
- D:\projects
 - Route
 - projrcted_shp_ND_Ju
 - projrcted_shp

1:17.073

Editor Drawing Flow Analysis Find Common Ancestors

Catalog

Create Features

dest

- dest

stores

- stores

Construction Tools

- Point
- Point at end of line



Geostatistical Analyst Network Analyst projrcted_shp_ND



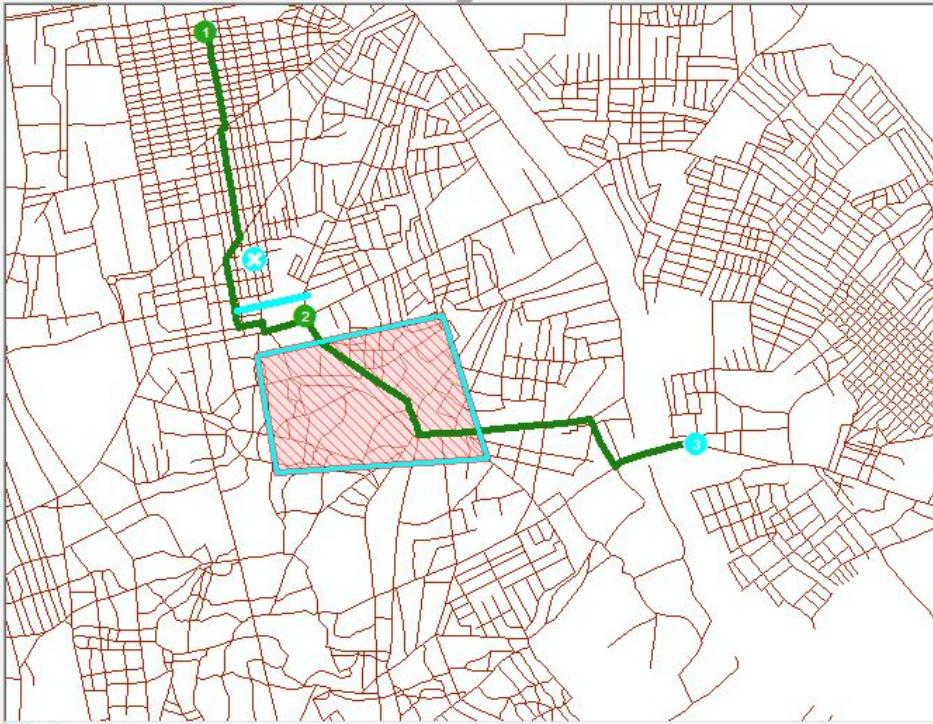
Network Ana... Table Of Contents

Route

- Stops (3)**
 - Graphic Pick 1
 - Graphic Pick 2
 - Graphic Pick 3
- Routes (1)**
 - Restriction (1)
 - Graphic Pick 4
 - Added Cost (0)
- Line Barriers (1)**
 - Restriction (1)
 - Graphic Pick 5
 - Scaled Cost (0)
- Polygon Barriers (1)**
 - Restriction (1)
 - Graphic Pick 6
 - Scaled Cost (0)

Layers

- Route:[7E64F1F2-BF7E-4]**
 - Stops
 - Located (Green circle)
 - Unlocated (Grey circle)
 - Error (Red circle)
 - Time Violation (Red square)
 - Point Barriers
 - Error (Red circle)
 - Restriction (Red circle)
 - Added Cost (Red circle)
 - Routes
 - Routes (Green line)
 - Line Barriers
 - Restriction (Red line)
 - Scaled Cost (Red line)
 - Polygon Barriers
 - Restriction (Red square)
 - Scaled Cost (Red square)
- D:\projects**
 - Route
 - projrcted_shp_ND_Ju
 - projrcted_shp



Catalog

Create Features

dest

dest

stores

stores

Construction Tools

Point

Point at end of line

-167195.587 2825447.957 Meters





Network Ana... x Table Of Contents

Route

- Stops (3)**
 - 1 Graphic Pick 1
 - 2 Graphic Pick 2
 - 3 Graphic Pick 3
- Routes (1)**
 - Restriction (1)
 - Graphic Pick 4
 - Added Cost (0)
- Line Barriers (1)**
 - Restriction (1)
 - Graphic Pick 5
 - Scaled Cost (0)
- Polygon Barriers (1)**
 - Restriction (1)
 - Graphic Pick 6
 - Scaled Cost (0)

Solve completed

Layers

- Route(7E64F1F2-BF7E-4)
 - Stops
 - Located (Green circle)
 - Unlocated (Grey circle)
 - Error (Red circle)
 - Time Violation (Red square)
 - Point Barriers
 - Error (Red circle)
 - Restriction (Red circle)
 - Added Cost (Red circle)
 - Routes
 - Routes (Green line)
 - Line Barriers
 - Restriction (Red line)
 - Scaled Cost (Red line)
 - Polygon Barriers
 - Restriction (Red square)
 - Scaled Cost (Red square)
- D:\projects
 - Route
 - projrcted_shp_ND_Ju
 - projrcted_shp

projrcted_shp_ND

Editor

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Find Common Ancestors

Catalog

Create Features

dest

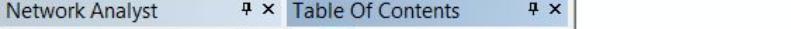
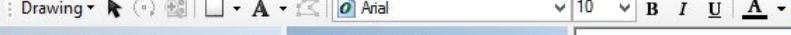
- dest

stores

- stores

Construction Tools

- Point
- Point at end of line



Network Analyst

New Route

New Service Area

New Closest Facility

New Closest Facility

Create a Closest Facility analysis layer.

The closest facility solver finds the cost of traveling between incidents and facilities and determines which are nearest to one other. The output includes a ranking of facilities by least impedance to or from incidents, along with routing directions between them.

Disabled if a network dataset layer is not in the table of contents.

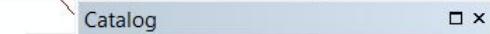
hyderabad_navig

New Closest Facility

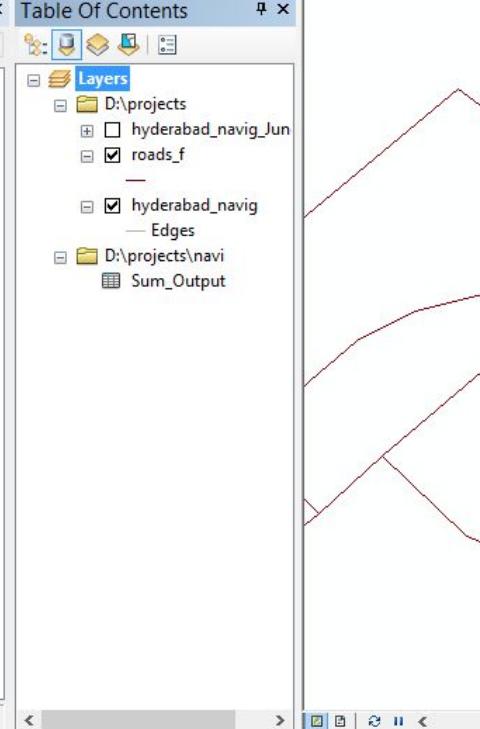
Find Common Ancestors

Flow Analysis

Catalog



Location: IAGS.shp
boundry.shp
Export_Output.shp
Export_Output_2.shp
Export_Output_3.shp
Export_Output_4.shp
fsd_shp.shp
gas_pipeline alternative route.mxd
hyd_roads.shp
hyderabad.shp
hyderabad_navig.nd
hyderabad_navig_Junctions.shp
hyderabad1.shp
hydrbd_line_city.shp
hydr_city.shp
IAGS.shp
Ihr.shp
mosque path finder.mxd
peshawar.shp
quetta.shp
rana jahangeer.mxd
rana usama mosque.mxd
road_network.shp
road_networks.shp
ROADS.shp
roads f.shp



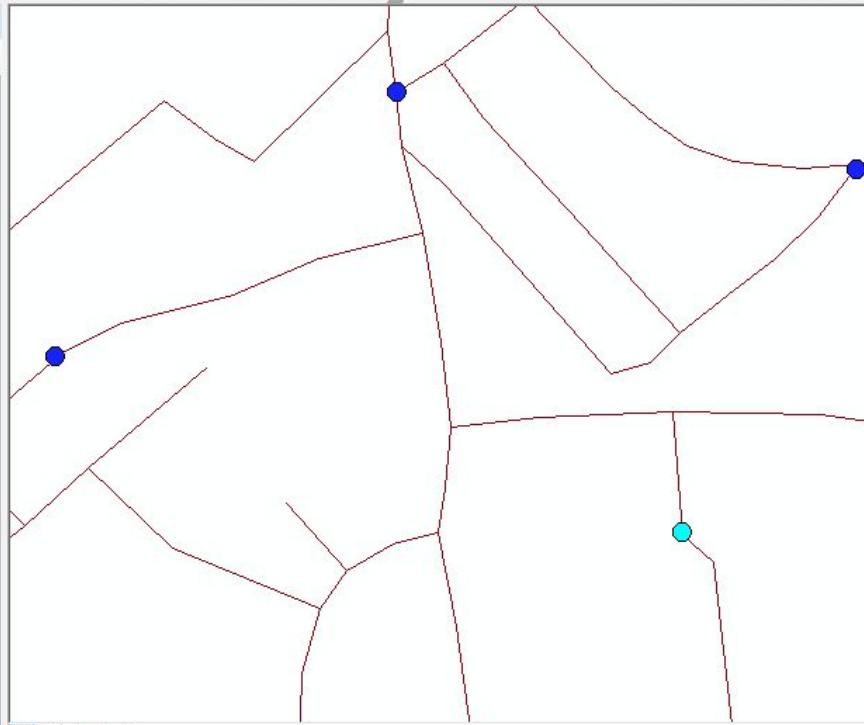


Network Analyst

Facilities (4)
Graphic Pick 1
Graphic Pick 2
Graphic Pick 3
Graphic Pick 4
Incidents (0)
Routes (0)
Point Barriers (0)
Restriction (0)
Added Cost (0)
Line Barriers (0)
Restriction (0)
Scaled Cost (0)
Polygon Barriers (0)
Restriction (0)
Scaled Cost (0)

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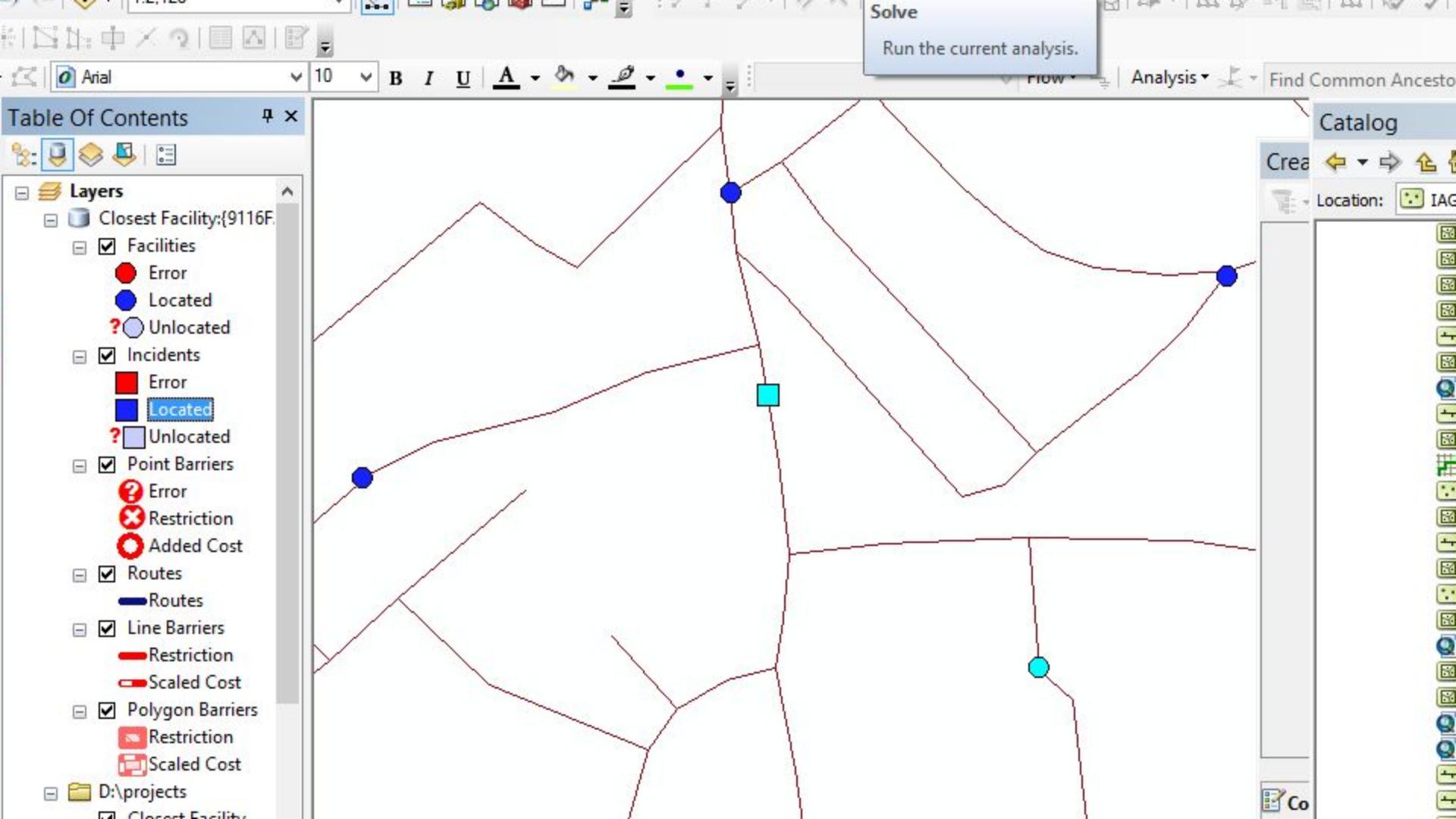
Layers
Closest Facility:9116F
Facilities
Error
Located
? Unlocated
Incidents
Error
Located
? Unlocated
Point Barriers
? Error
X Restriction
O Added Cost
Routes
— Routes
Line Barriers
— Restriction
— Scaled Cost
Polygon Barriers
— Restriction
— Scaled Cost
D:\projects
Closest Facility
hyderabad_navig

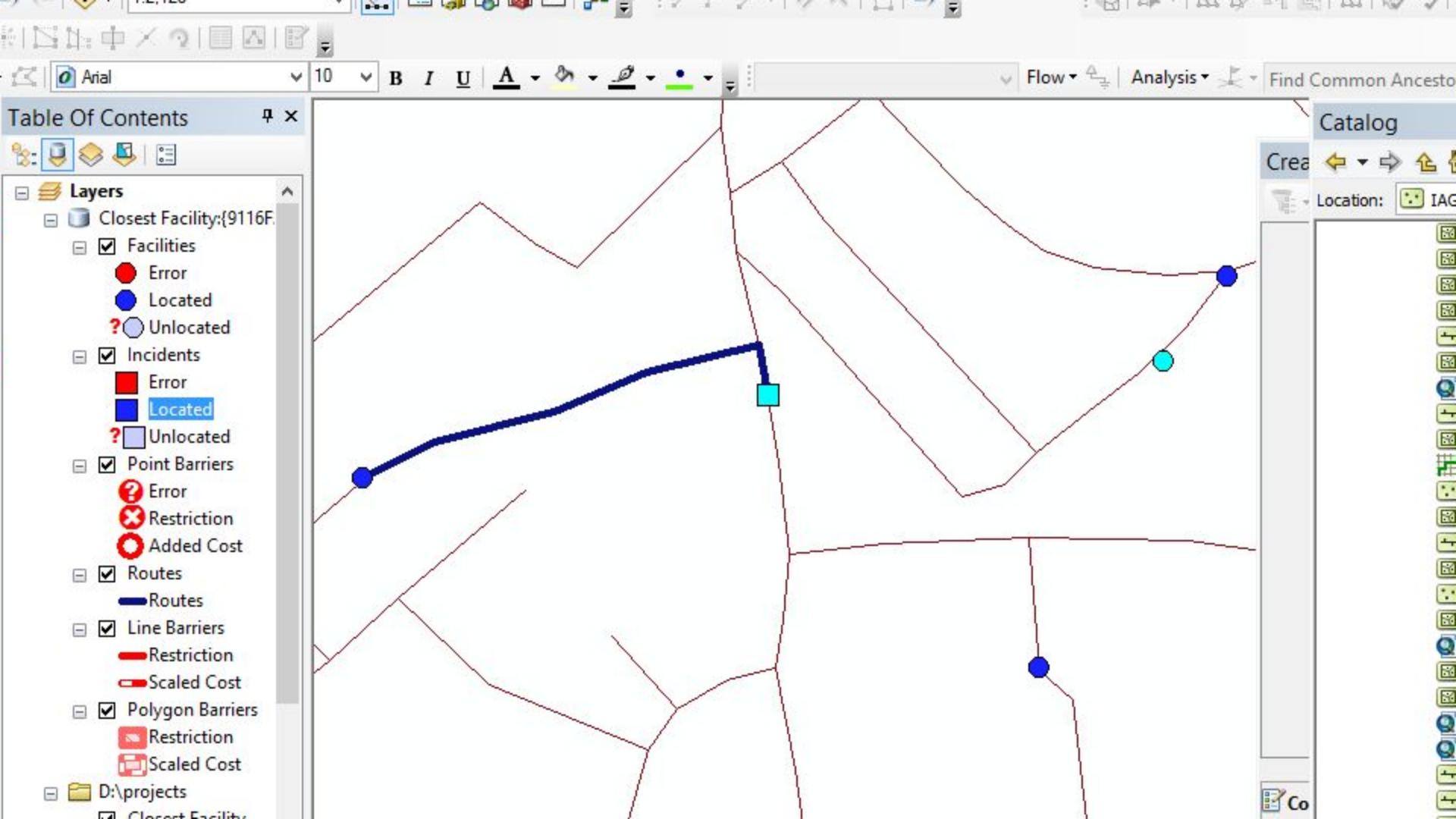


Catalog

Create
Location: IAGS.shp
boundary.shp
Export_Output.shp
Export_Output_2.shp
Export_Output_3.shp
Export_Output_4.shp
fsd_shp.shp
gas_pipeline alternative route.mxd
hyd_roads.shp
hyderabad.shp
hyderabad_navig.nd
hyderabad_navig_Junctions.shp
hyderabad1.shp
hydrbd_line_city.shp
hydr_city.shp
IAGS.shp
Ihr.shp
mosque path finder.mxd
peshawar.shp
quetta.shp
rana jahangeer.mxd
rana usama mosque.mxd
road_network.shp
road_networks.shp
ROADS.shp
roads f.shp

68.354 25.365 Decimal Degrees







Thanks for bearing
me