



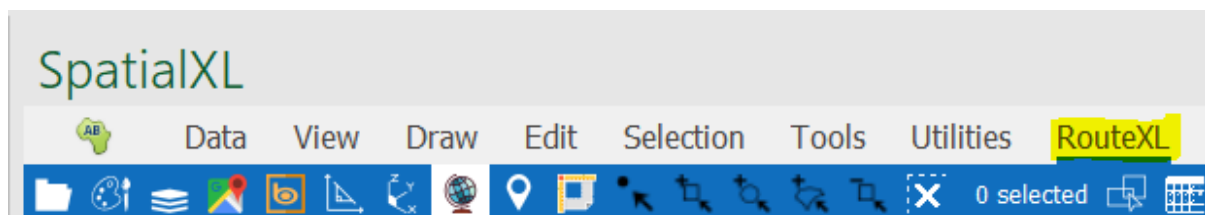
Drive Polygons in RouteXL

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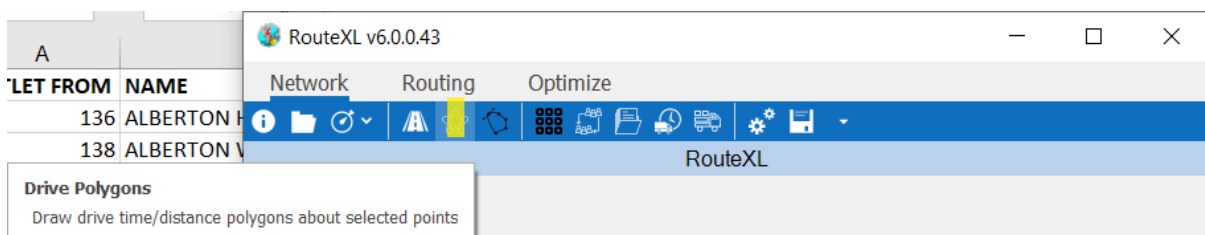
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RouteXL

RouteXL is an add-in to SpatialXL that allows optimised routing, transportation scheduling and high-speed bulk routing operations.

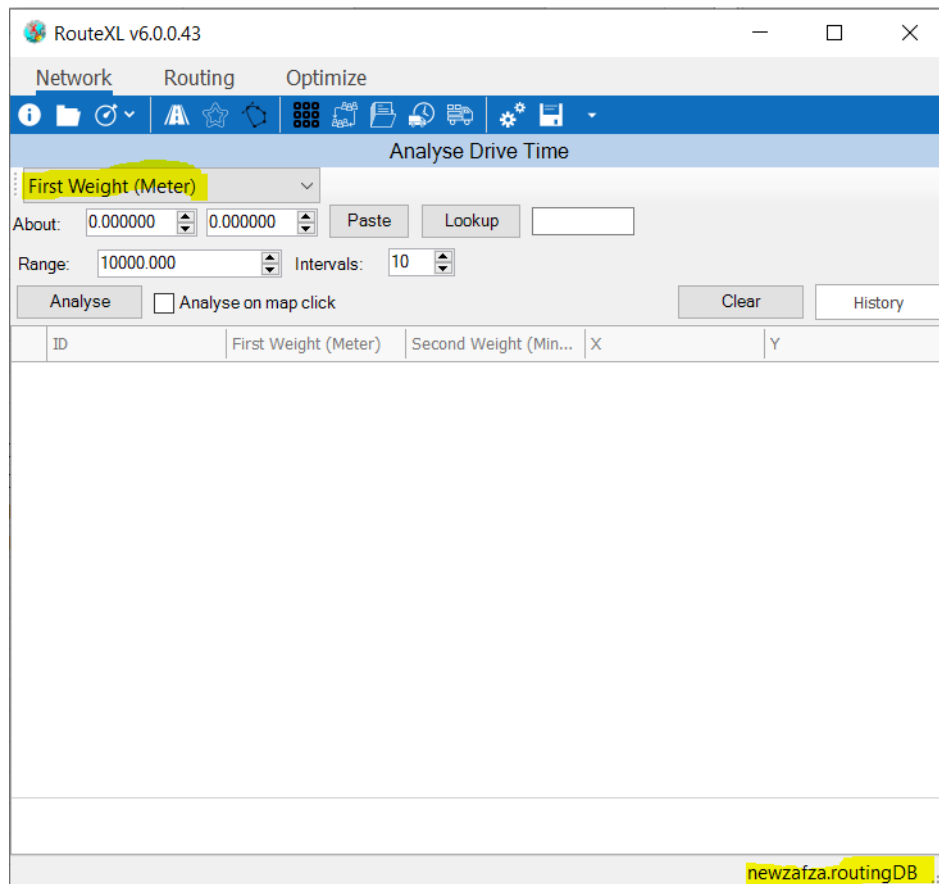


Drive Polygons

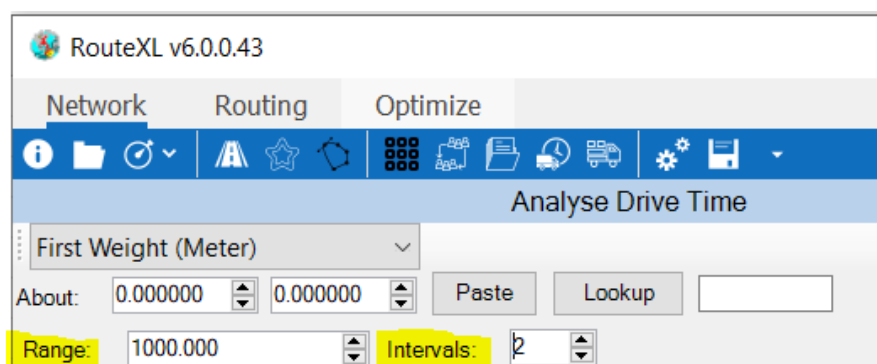


How to set up your data

Load your Routing Network by browsing to your .routingDB file. Your Routing Network will be displayed in the bottom right corner of your RouteXL window. I loaded **newzafza.routingDB** which is the South African Routing Network.



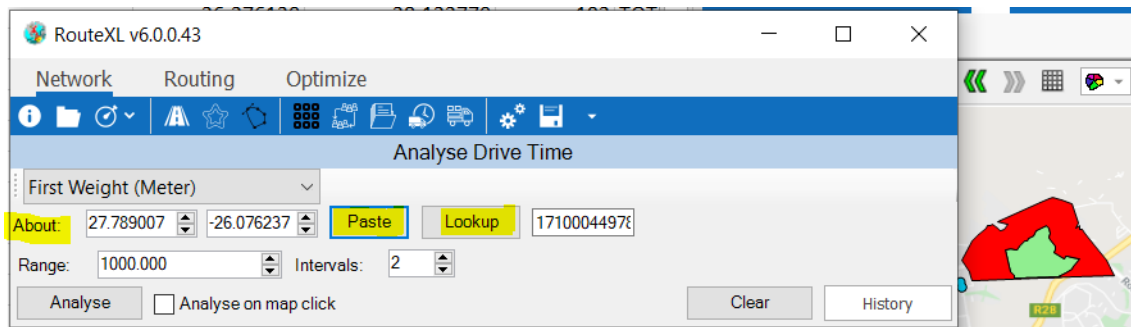
You can either draw **Drive Polygons** using **First Weight (Meter)** or **Second Weight (Minute)**. I have chosen **First Weight (Meter)** in this example.



In this example I am setting the **Range** of the polygon to be drawn 1000m about an area/s. (If **Second Weight (Minute)** is chosen the range type would now be in minutes and not meters.)

I also chose **2 Intervals**. This means the **Drive Polygon/s** will be drawn in 2 levels to make up 1000m – 500m and 500m.

Inputting your data



There are different ways that you can draw **Drive Polygons**.

1. Copy and **Paste** your coordinates here of an area you would like to draw a **Drive Polygon** about.

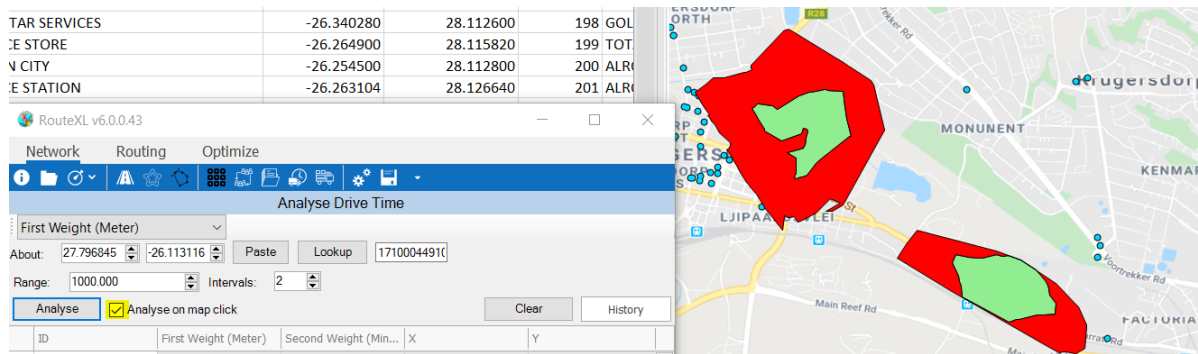
You will see that when you **Paste** your coordinates a **Lookup** value is inserted. This is just the Node ID of the South African Routing Network.

On your map, the **Drive Polygon** will be drawn as above. A layer has also been added – **Drive Time Analysis**.



2. You can **Analyse on map click**. Tick this on.

Drive Polygons User Guide



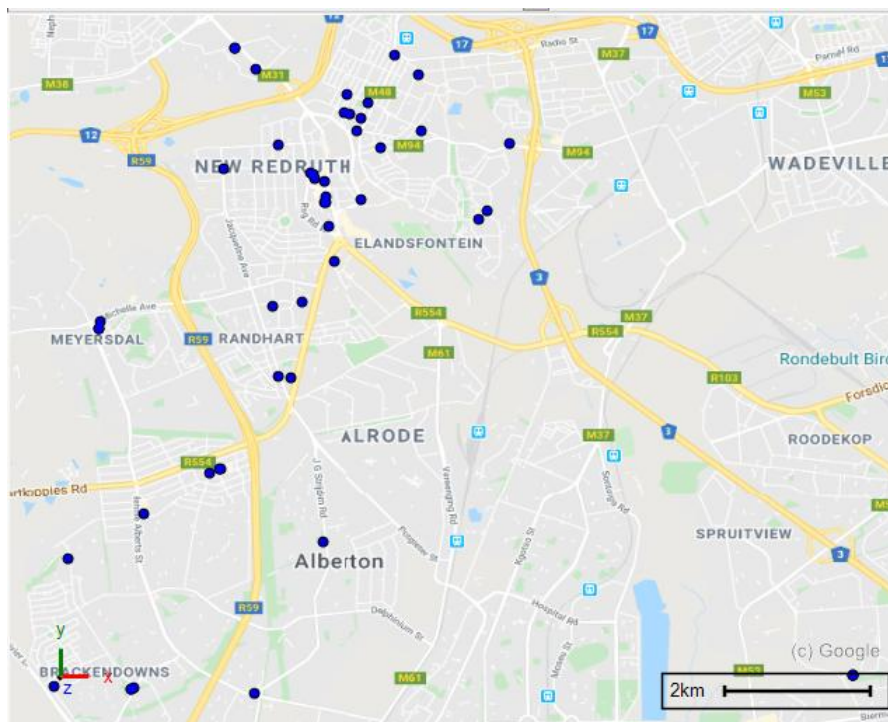
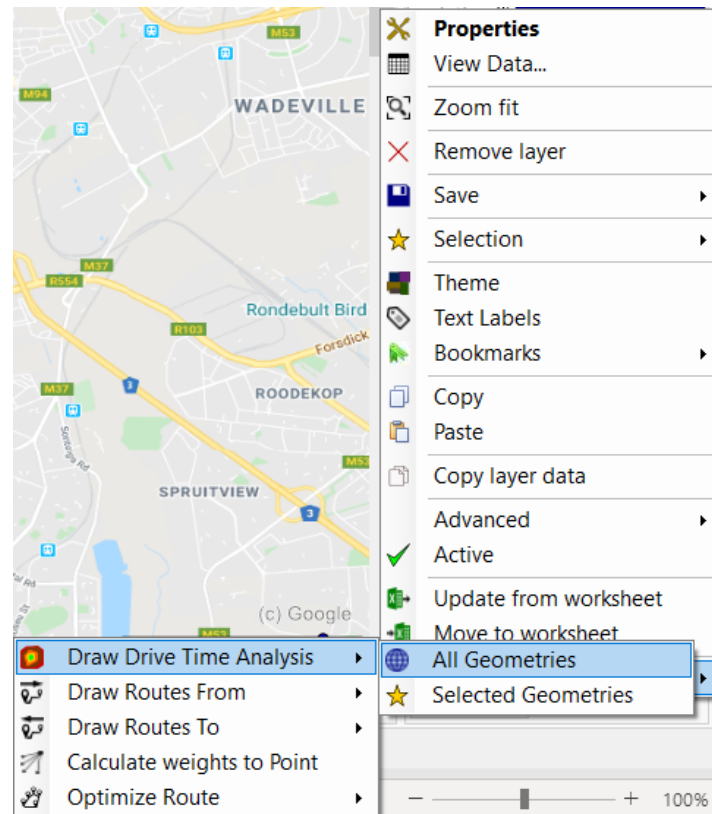
For every click you make on the scene, a **Drive Polygon** will be drawn per your settings.

3. You can draw **Drive polygons** around **All Geometries** of your layer or **Selected Geometries**. I am using **All Geometries** in this example.

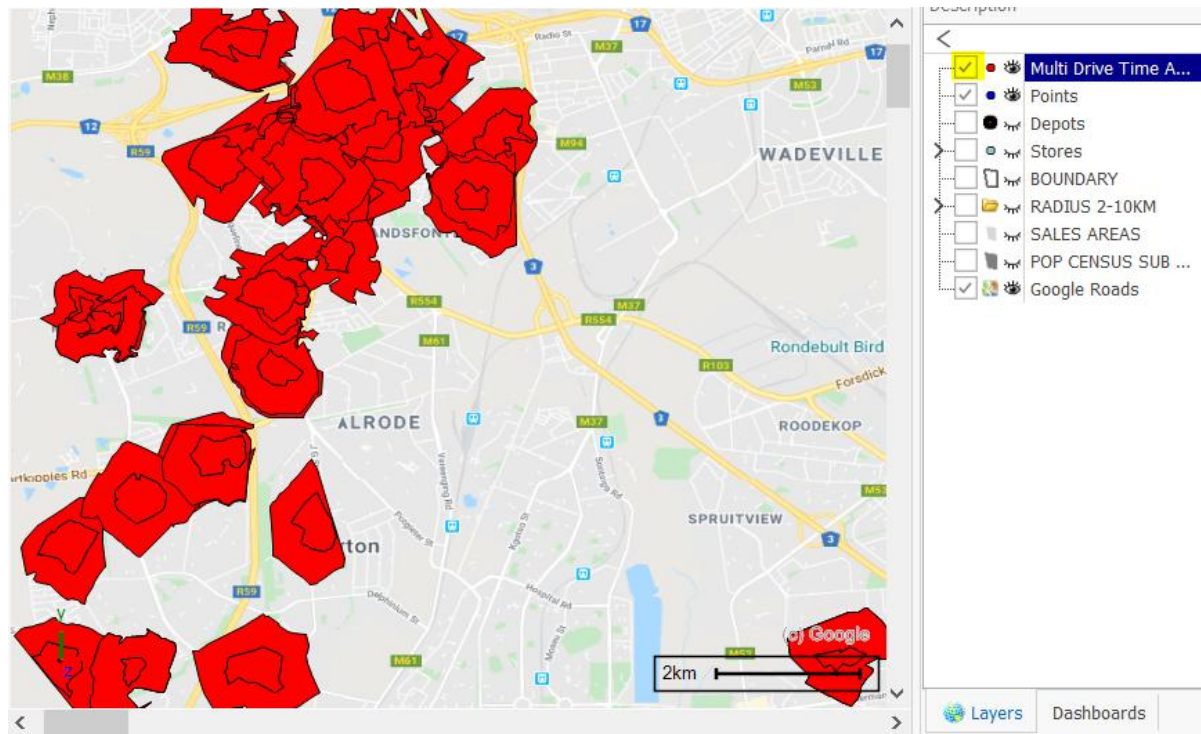
Ensure that you first set up your **Weight**, **Range**, and **Intervals**.

Right click the layer that you will be doing this exercise for. Select **RouteXL > Draw Drive Time Analysis > All Geometries** (If you are using **Selected Geometries**, ensure your points/geometries are first selected on your map.)

Drive Polygons User Guide



Drive Polygons User Guide



All geometries/points now have **Drive Polygons** per our settings. A layer **Multi Drive Time Analysis** has also been added.

Understanding your data

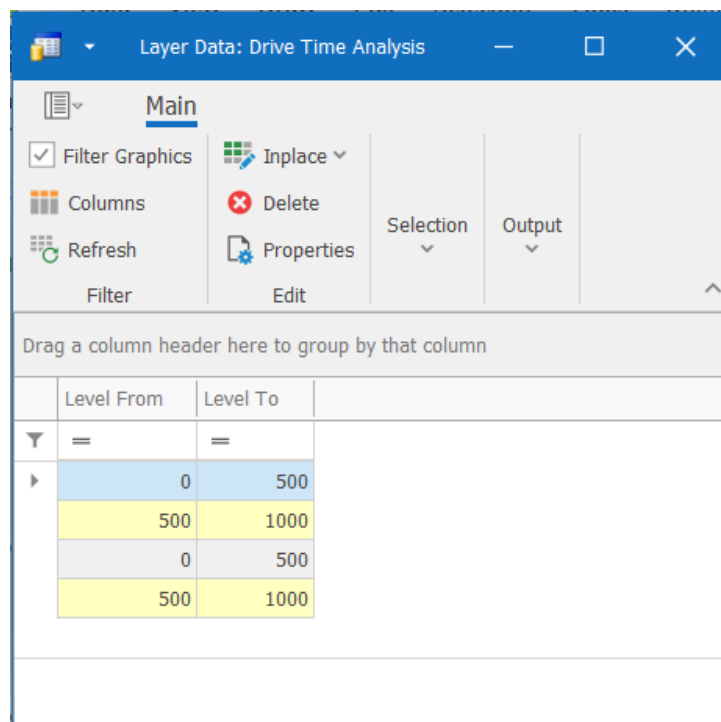
ID	First Weight (Meter) ▼	Second Weight (Minute)	X	Y
17100045418198	0.00	0.00	28.14425	-26.27513
17100045228778	13.31	0.02	28.14437	-26.27509
17100045267080	19.20	0.03	28.14439	-26.27498
17100044910309	26.92	0.05	28.14435	-26.27504
17100045056807	37.83	0.07	28.14448	-26.27501
17100045272765	46.80	0.08	28.14448	-26.27509
17100045272764	120.37	0.21	28.14511	-26.27543
17100045091539	178.75	0.31	28.14447	-26.27376
17100044965444	182.77	0.31	28.1425	-26.27552
17100045118295	209.70	0.36	28.14554	-26.27472
17100045178573	222.27	0.38	28.14288	-26.27554

Whether you **Analyse on map click** or copy and paste coordinates, your RouteXL window will be populated with this data of your **Drive Polygon/s**.

The **ID** column are your Node IDs in your Routing Network.



Analysed Drive Times in 06ms indicates how long it took to analyse the drive times/distances. It took 6 milliseconds in this example of analysing 2 **Drive Polygons** I created by **Analysing on map click**.



In your **Drive Time Analysis** layer that was created you can view the 2 polygons data by viewing your **Layer Data** grid.



If you are drawing **Drive Polygons** on **All Geometries** or **Selected Geometries** – when the analysis is complete it will show at the bottom of your RouteXL window – **Completed 98 contours**.

Drive Polygons User Guide

Layer Data: Multi Drive Time Analysis

Filter Graphics

Columns

Refresh

Filter

Inplace

Delete

Properties

Edit

Zoom

Zoom and Highlight

Pan

Selection

Highlight All

Un Highlight All

Un Highlight Selected

Highlight Selected

Copy

Copy Html

Export to Excel

Output

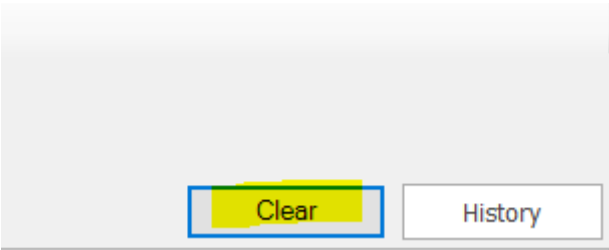
Print

Pivot

Drag a column header here to group by that column

	Row	ID	NAME	LONGITUDE	LATITUDE	DEPOTS	CLUSTER1	GROUP	Level From	Level To	
▶	2	136	ALBERTON HYPER LIQUOR	28.1222	-26.2728	Depot1	9	A	0	500	
	2	136	ALBERTON HYPER LIQUOR	28.1222	-26.2728	Depot1	9	A	500	1000	
	3	138	ALBERTON WHOLESALERS	28.122167	-26.27005	Depot1	11	A	0	500	
	3	138	ALBERTON WHOLESALERS	28.122167	-26.27005	Depot1	11	A	500	1000	
	4	139	BP~GROBLER SERVICE STATION	28.12277	-26.27613	Depot1	9	A	0	500	
	4	139	BP~GROBLER SERVICE STATION	28.12277	-26.27613	Depot1	9	A	500	1000	
	5	140	BP EXPRESS~RANDHART	28.194684	-26.337667	Depot2	13	A	0	500	
	5	140	BP EXPRESS~RANDHART	28.194684	-26.337667	Depot2	13	A	500	1000	
	6	141	BRACKENDOWNS LIQUOR STORE	28.194684	-26.337667	Depot2	13	A	0	500	
	6	141	BRACKENDOWNS LIQUOR STORE	28.194684	-26.337667	Depot2	13	A	500	1000	
	7	142	CALTEX~HENNICO SERVICE STATION	28.12485	-26.26054	Depot2	15	A	0	500	

View your **Layer Data** grid of the layer **Multi Drive Time Analysis** that was created in this instance.



If you need to clear your data in your RouteXL window and start afresh, click on **Clear**.

Analyse		☐ Analyse on map click		Clear	History
	About Node	Weight	Range	Intervals	
▶	97845	First Weight (Meter)	10000	10	▲
	17100044978925	First Weight (Meter)	1000	2	
	17100045164339	First Weight (Meter)	1000	2	
					▼

If you want to view the history of **Drive Polygons** you have created, click **History**. Click it again to remove it.

ID	First Weight (Meter)	Second Weight (Minute)	X	Y
17100045199860	0.00	0.00	28.11349	-26.34094
		0.02	28.11336	-26.34092
		0.09	28.11284	-26.3408
	121.33	0.16	28.11232	-26.34066
17100045150202	125.72	0.17	28.11291	-26.34028
17100045137024	182.45	0.24	28.11313	-26.33982
17100050984749	223.08	0.30	28.11343	-26.33958
17100045160998	240.56	0.32	28.11357	-26.33947
17100045264299	245.83	0.33	28.11592	-26.34133
17100045034415	255.44	0.37	28.11264	-26.33932

The data in your RouteXL window can be copied out by selecting row/s or saved to a CSV file for further analysis.

Support

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