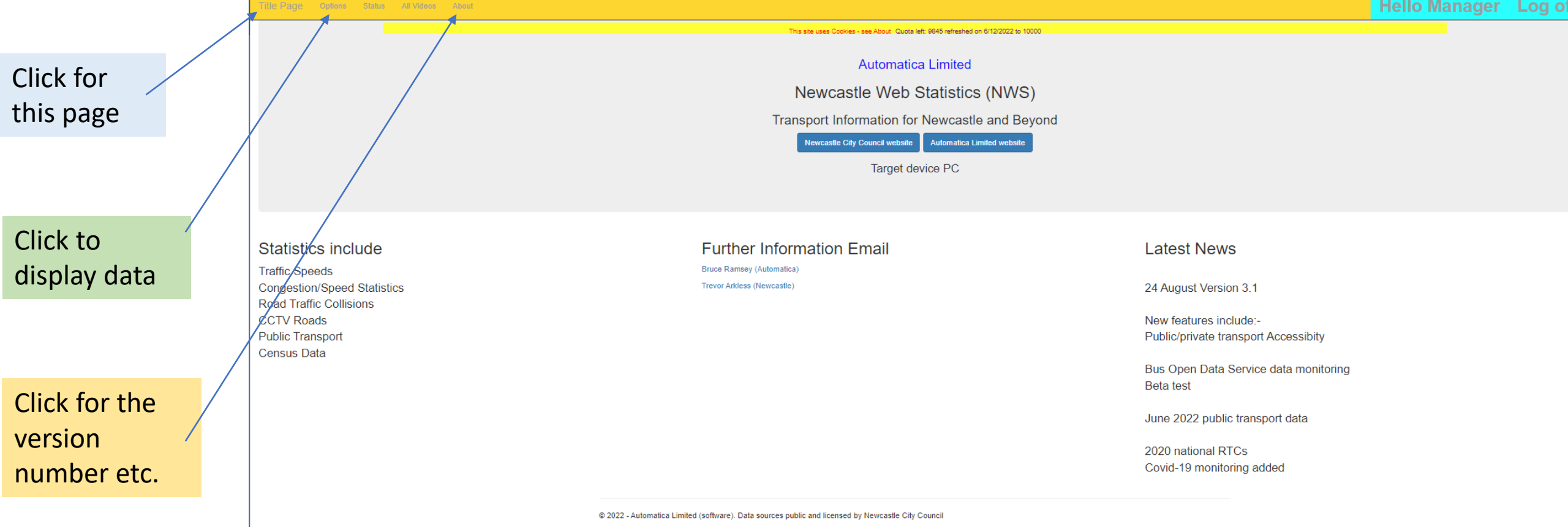
Automatica Limited

Presents

NecastleWebStats (NWS)

A web browser based environment for displaying transport planning information such as Road Traffic Collisions (RTCs), Traffic Congestion, near live CCTV pictures, Public Transport Networks, 2011 Census Information, and Accessibility Statistics for various modes.

This presentation gives an overview of a number of features. There are also short videos of selected topics.



Click for this page

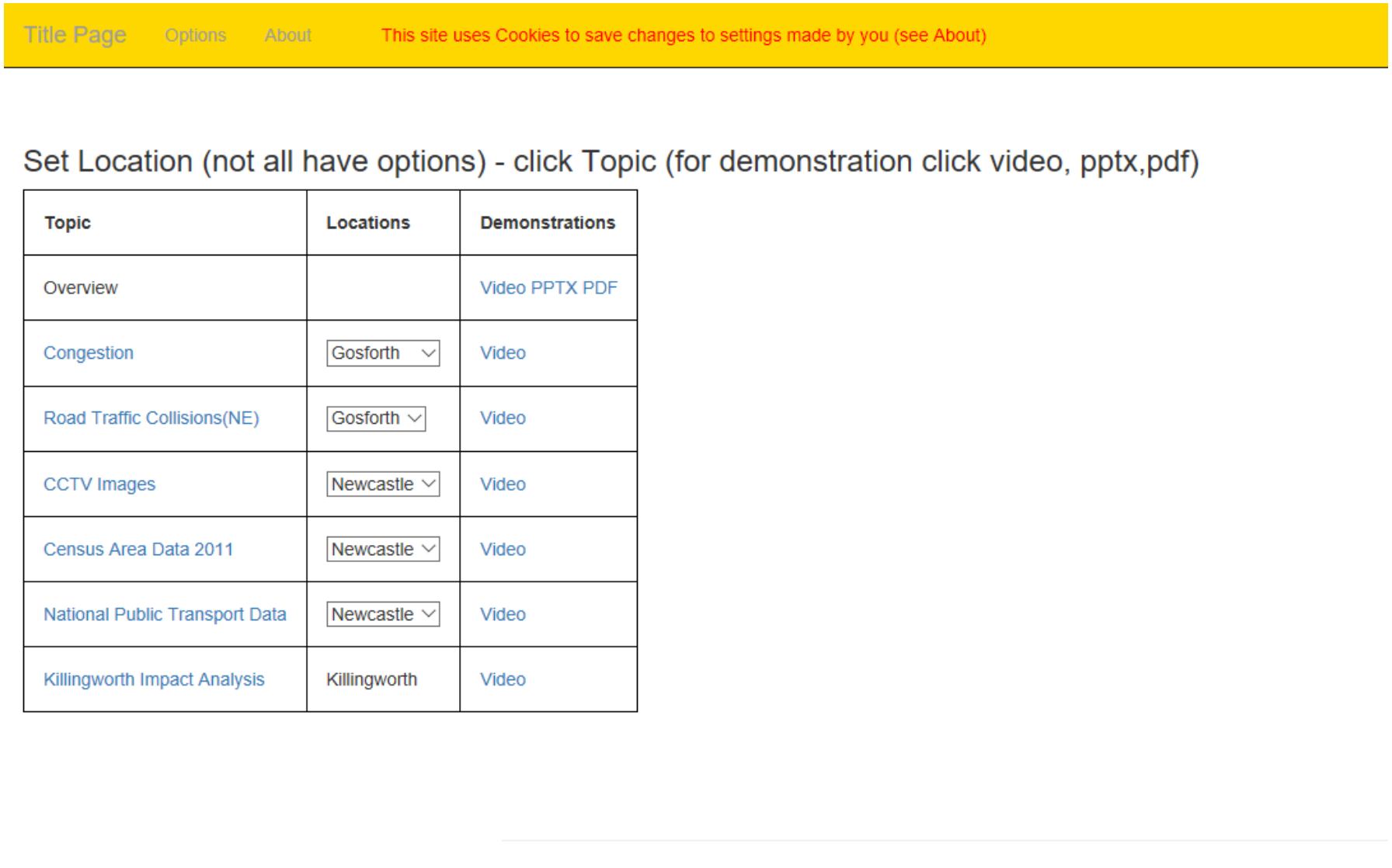
Click to display data

Click for the version number etc.

Options Page

Overview gives access to demonstrations as video, PowerPoint or PDF

To access data, first select a starting location then click on a topic. Clicking on video shows a sample session for the selected topic.

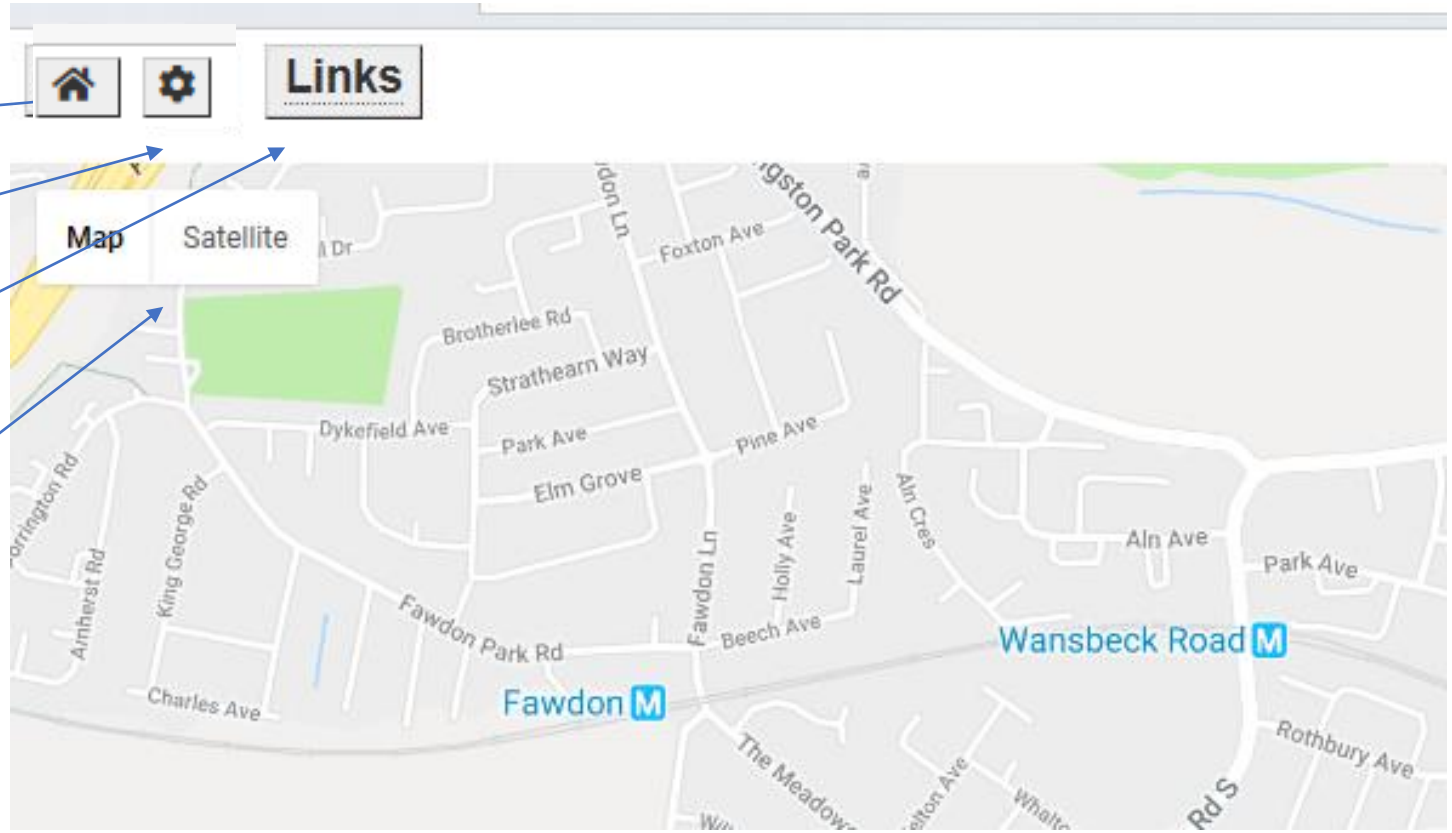


Return to Options

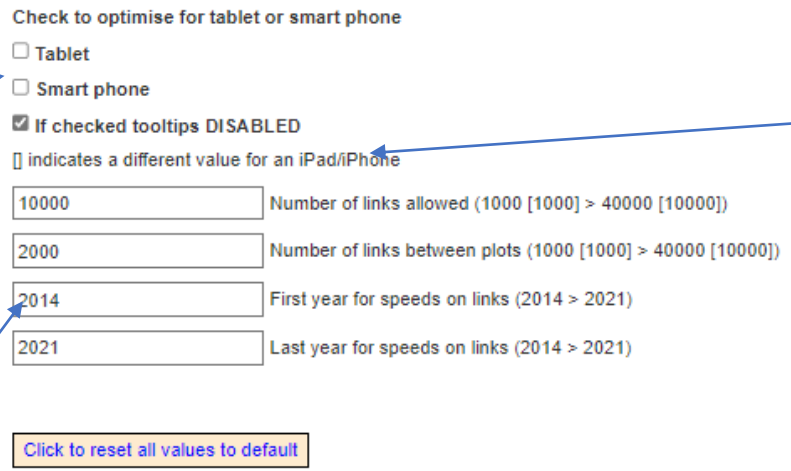
Change Settings

Display Congestion

Switch Map Types
Map is recommended



If you are using a tablet or smart phone setting one of these may improves the sizing of the plot

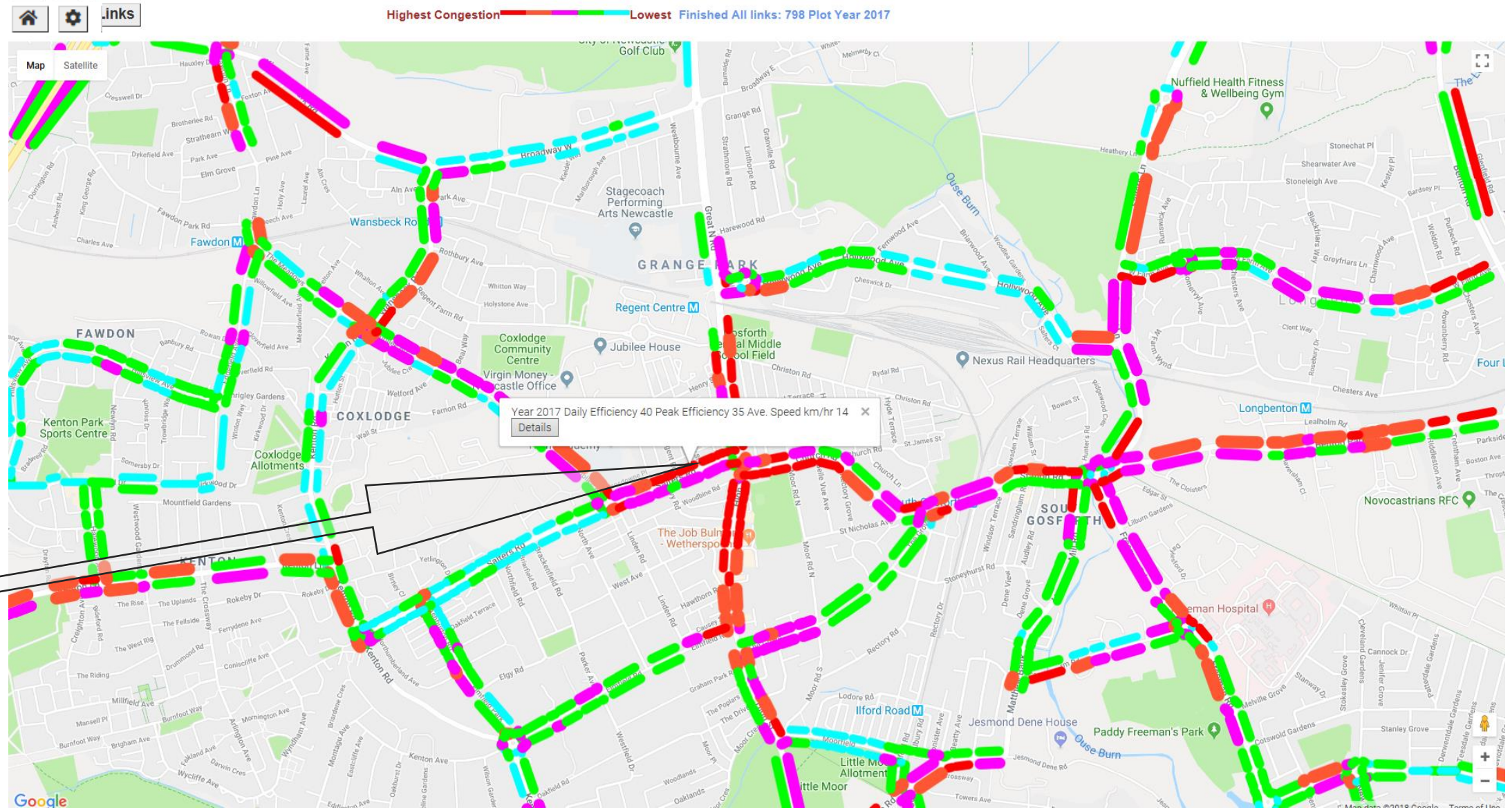


If not checked mousing over or touching gives a tooltip. This can be annoying once you have become familiar with the system.

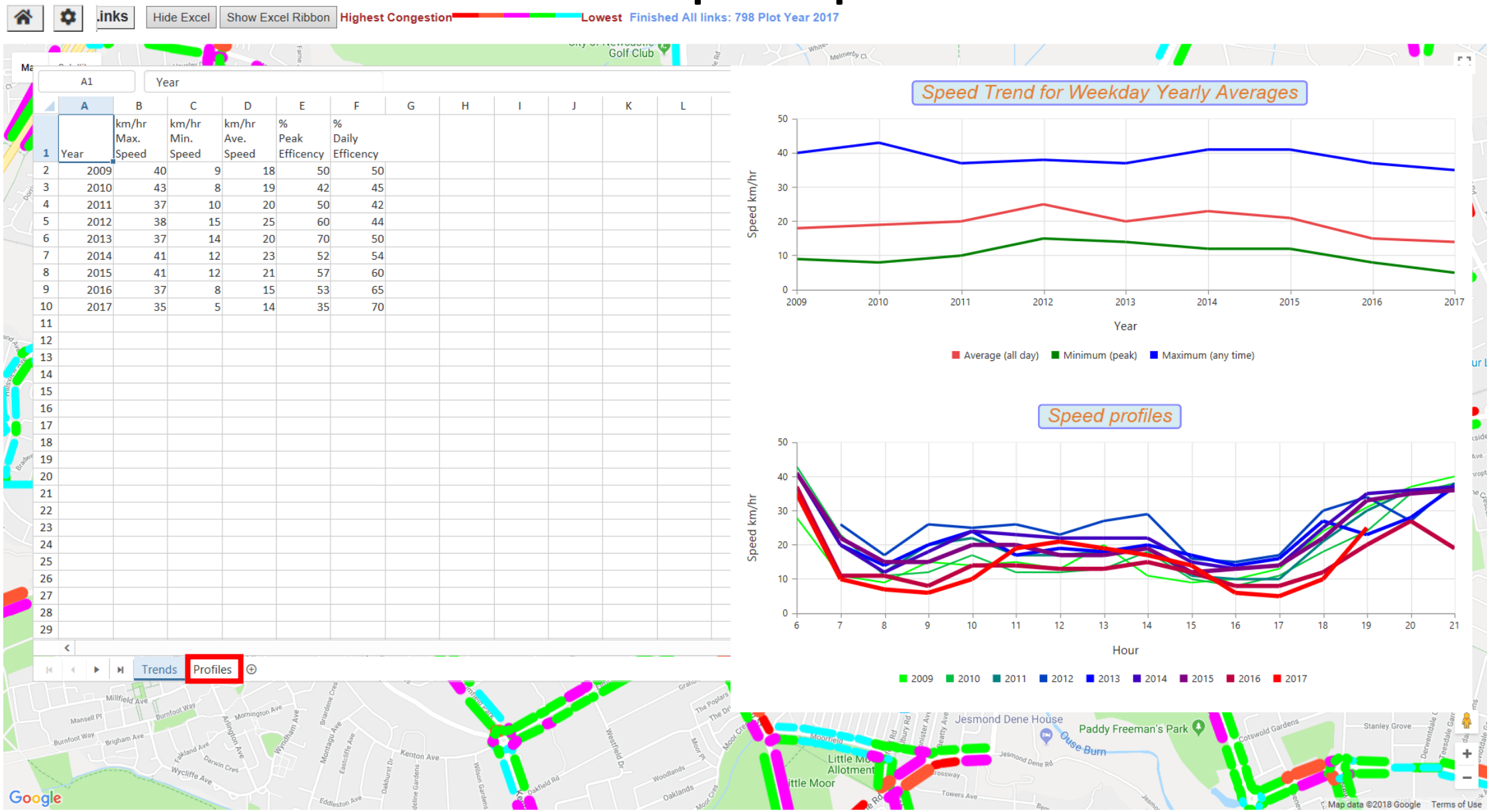
The amount of data that individual browsers can plot varies. This can cause the browser to crash. These settings limit the amount of data that can be plotted. The default values should be fine for the vast majority of users. Take advice before changing them.

Any changes are saved in cookies.

Congestion plot on Google Maps showing summary statistics for a link

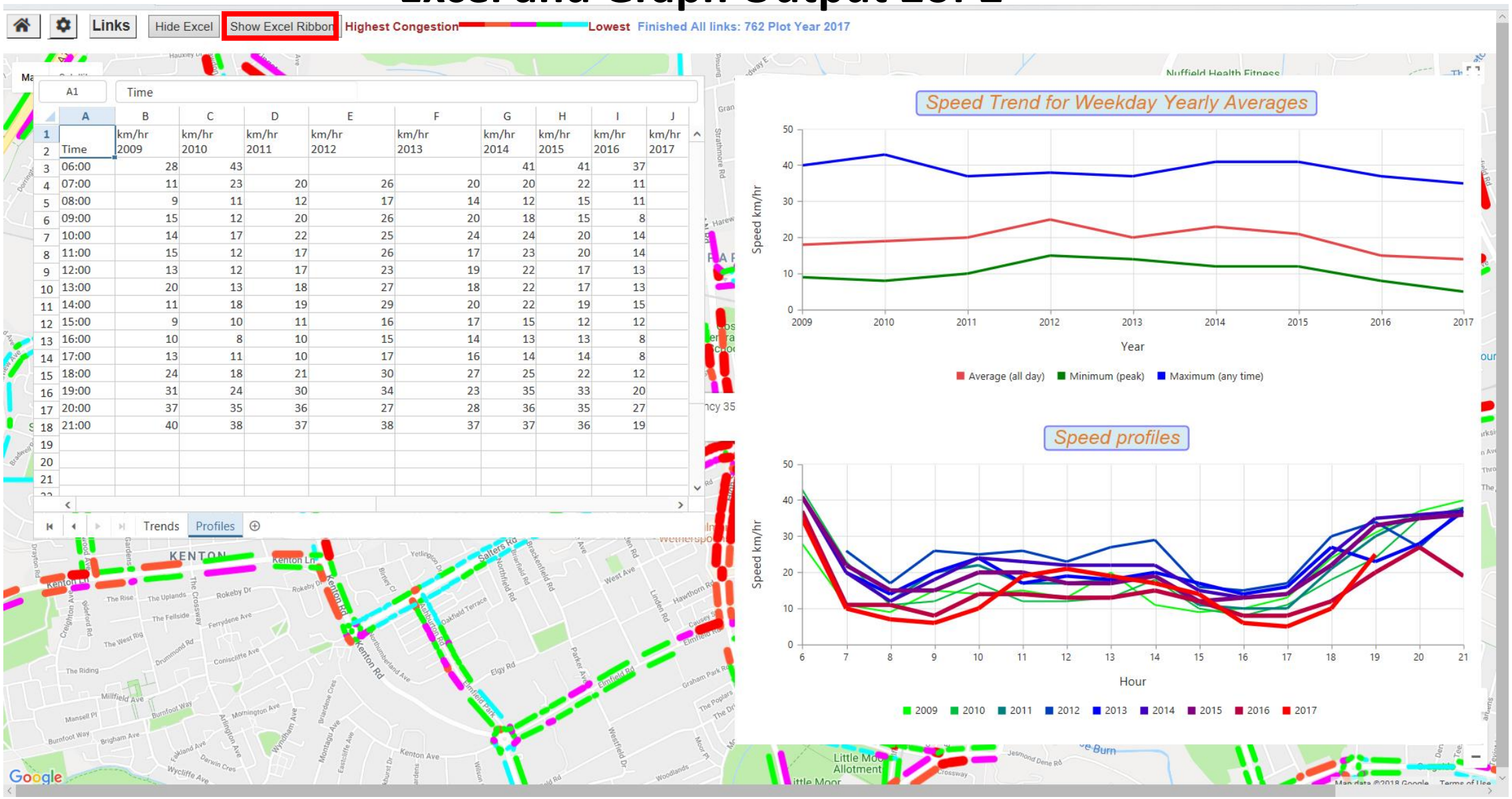


Excel and Graph Output 1 of 2



Year	km/hr Max. Speed	km/hr Min. Speed	km/hr Ave. Speed	% Peak Efficency	% Daily Efficency
2009	40	9	18	50	50
2010	43	8	19	42	45
2011	37	10	20	50	42
2012	38	15	25	60	44
2013	37	14	20	70	50
2014	41	12	23	52	54
2015	41	12	21	57	60
2016	37	8	15	53	65
2017	35	5	14	35	70

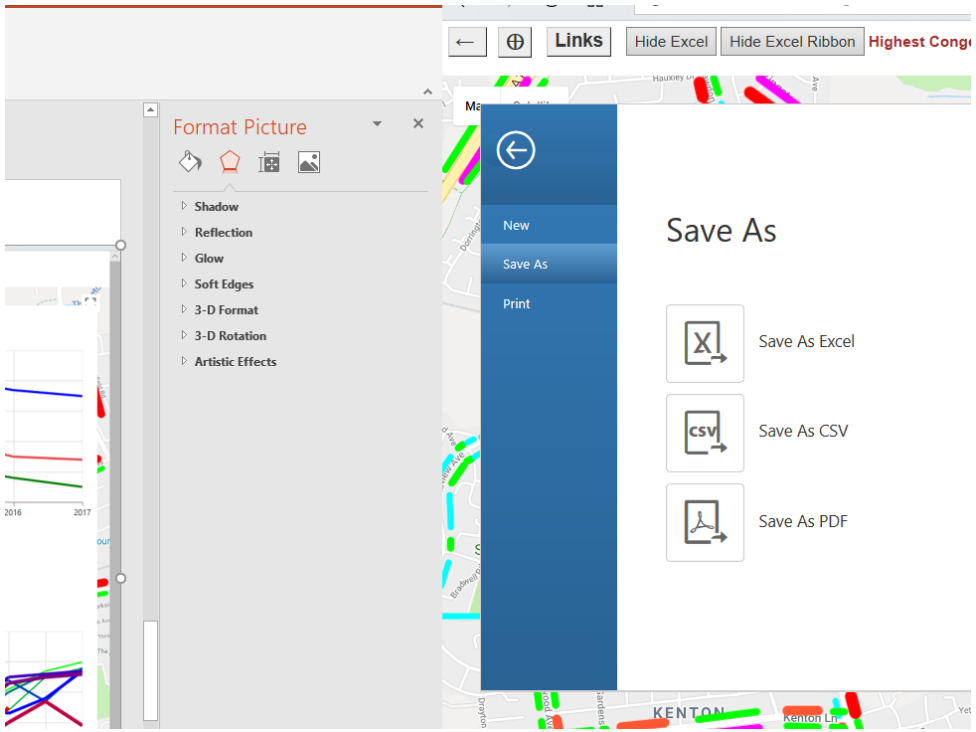
Excel and Graph Output 2of 2



Time	km/hr 2009	km/hr 2010	km/hr 2011	km/hr 2012	km/hr 2013	km/hr 2014	km/hr 2015	km/hr 2016	km/hr 2017
06:00	28	43				41	41	37	
07:00	11	23	20	26	20	20	22	11	
08:00	9	11	12	17	14	12	15	11	
09:00	15	12	20	26	20	18	15	8	
10:00	14	17	22	25	24	24	20	14	
11:00	15	12	17	26	17	23	20	14	
12:00	13	12	17	23	19	22	17	13	
13:00	20	13	18	27	18	22	17	13	
14:00	11	18	19	29	20	22	19	15	
15:00	9	10	11	16	17	15	12	12	
16:00	10	8	10	15	14	13	13	8	
17:00	13	11	10	17	16	14	14	8	
18:00	24	18	21	30	27	25	22	12	
19:00	31	24	30	34	23	35	33	20	
20:00	37	35	36	27	28	36	35	27	
21:00	40	38	37	38	37	37	36	19	

Next slide after clicking Show Excel Ribbon

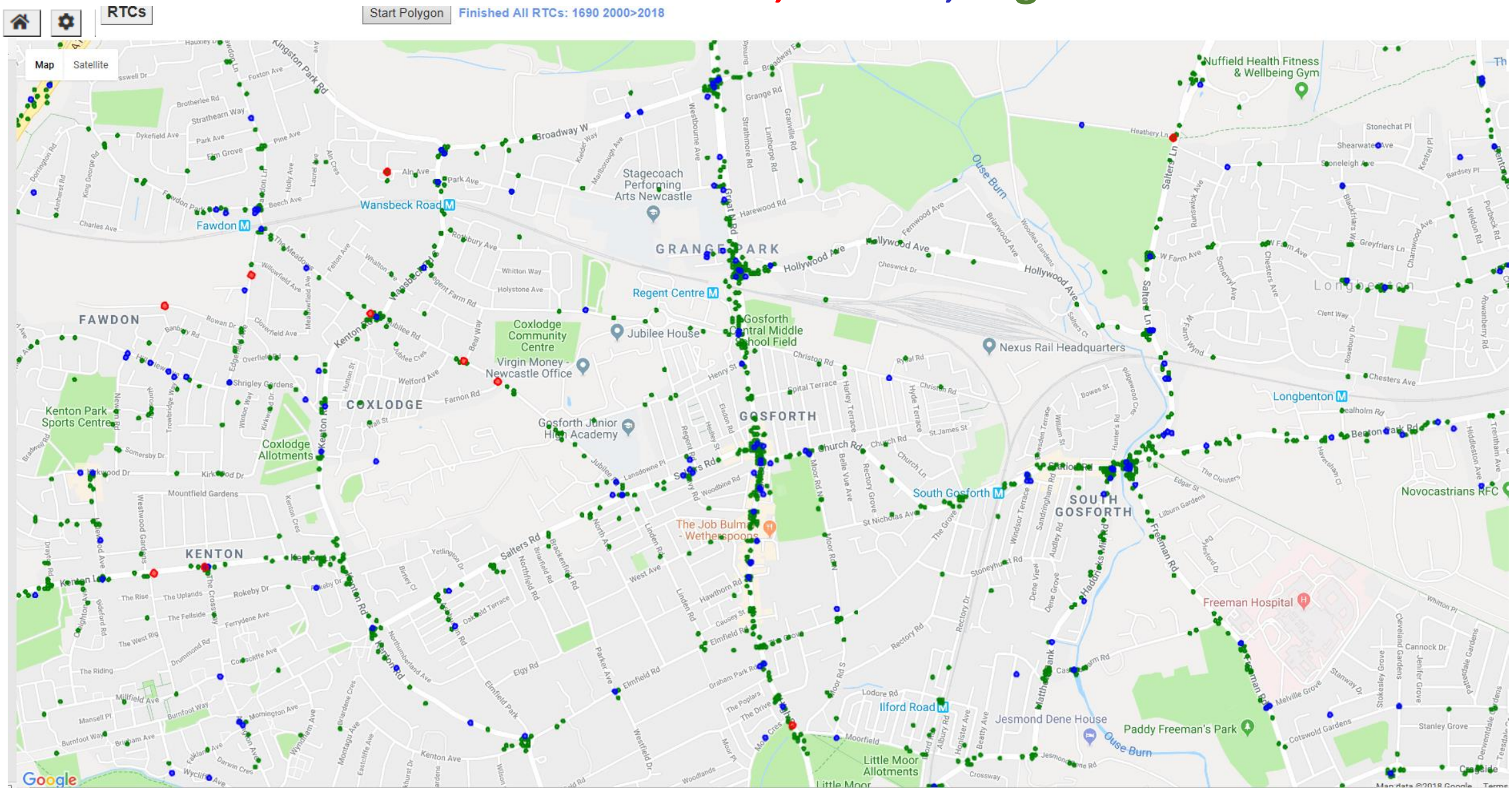
Clicking Show Excel Ribbon enables saving Excel



The graphics and spreadsheet shown on the previous pages use Syncfusion' s library (click website for more details). A particularly useful feature of the spreadsheet is the ability to export it as an xls or csv to the client computer, thus enabling further analysis. The spreadsheet can also be exported as a pdf.

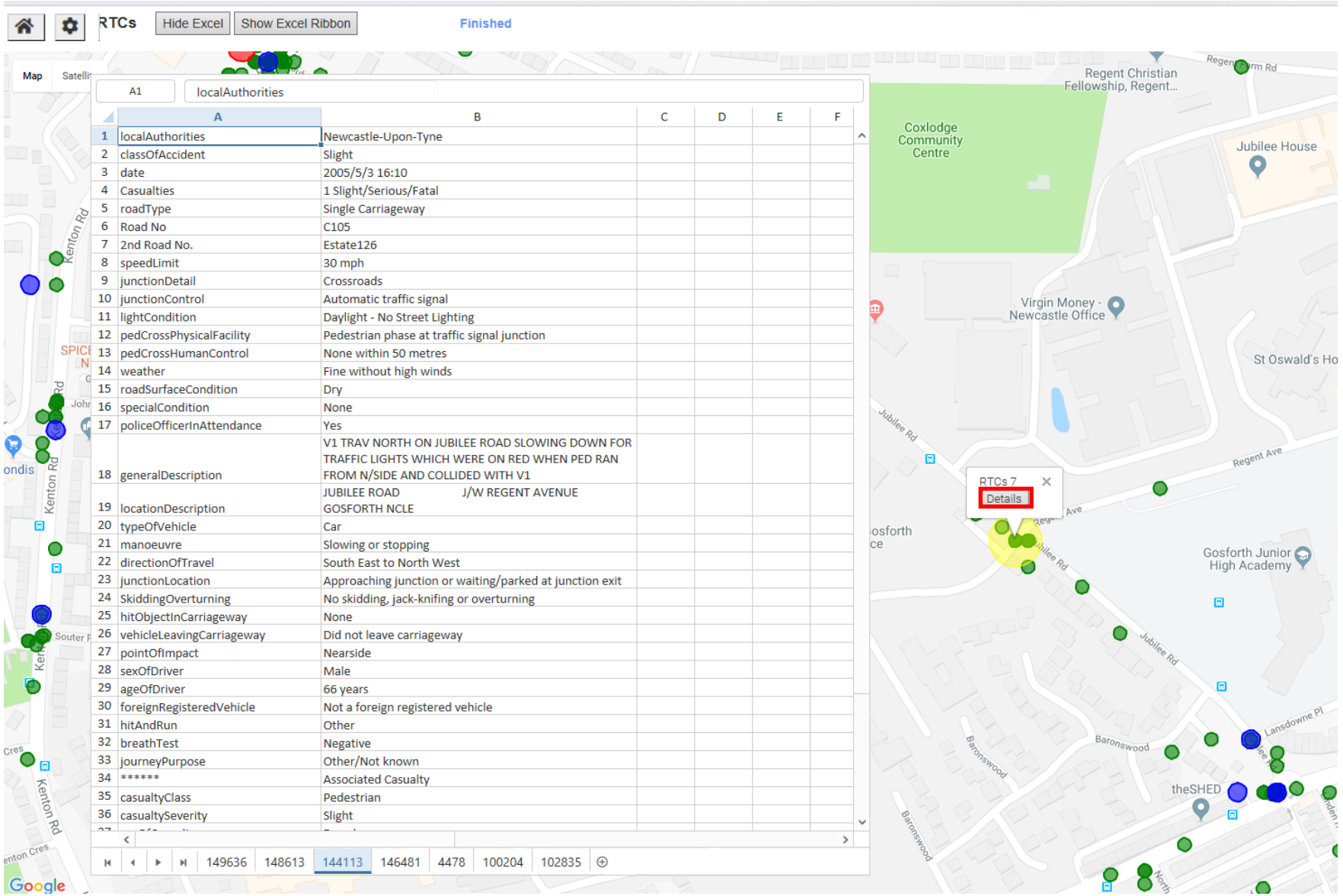
Next slide after clicking Road Traffic Collisions in Options and RTCs on the new page.

Road Traffic Collisions – Fatal, Serious, Slight



Next slide after clicking on or near an RTC followed by clicking Details

Details of RTCs within ~ 20m of the click point



	A	B	C	D	E	F
1	localAuthorities	Newcastle-Upon-Tyne				
2	classOfAccident	Slight				
3	date	2005/5/3 16:10				
4	Casualties	1 Slight/Serious/Fatal				
5	roadType	Single Carriageway				
6	Road No	C105				
7	2nd Road No.	Estate126				
8	speedLimit	30 mph				
9	junctionDetail	Crossroads				
10	junctionControl	Automatic traffic signal				
11	lightCondition	Daylight - No Street Lighting				
12	pedCrossPhysicalFacility	Pedestrian phase at traffic signal junction				
13	pedCrossHumanControl	None within 50 metres				
14	weather	Fine without high winds				
15	roadSurfaceCondition	Dry				
16	specialCondition	None				
17	policeOfficerInAttendance	Yes				
18	generalDescription	V1 TRAV NORTH ON JUBILEE ROAD SLOWING DOWN FOR TRAFFIC LIGHTS WHICH WERE ON RED WHEN PED RAN FROM N/SIDE AND COLLIDED WITH V1				
19	locationDescription	JUBILEE ROAD J/W REGENT AVENUE GOSFORTH NCLE				
20	typeOfVehicle	Car				
21	manoeuvre	Slowing or stopping				
22	directionOfTravel	South East to North West				
23	junctionLocation	Approaching junction or waiting/parked at junction exit				
24	SkiddingOverturning	No skidding, jack-knifing or overturning				
25	hitObjectInCarriageway	None				
26	vehicleLeavingCarriageway	Did not leave carriageway				
27	pointOfImpact	Nearside				
28	sexOfDriver	Male				
29	ageOfDriver	66 years				
30	foreignRegisteredVehicle	Not a foreign registered vehicle				
31	hitAndRun	Other				
32	breathTest	Negative				
33	journeyPurpose	Other/Not known				
34	******	Associated Casualty				
35	casualtyClass	Pedestrian				
36	casualtySeverity	Slight				

149636 | 148613 | 144113 | 146481 | 4478 | 100204 | 102835

Next slide RTC Polygon Analysis

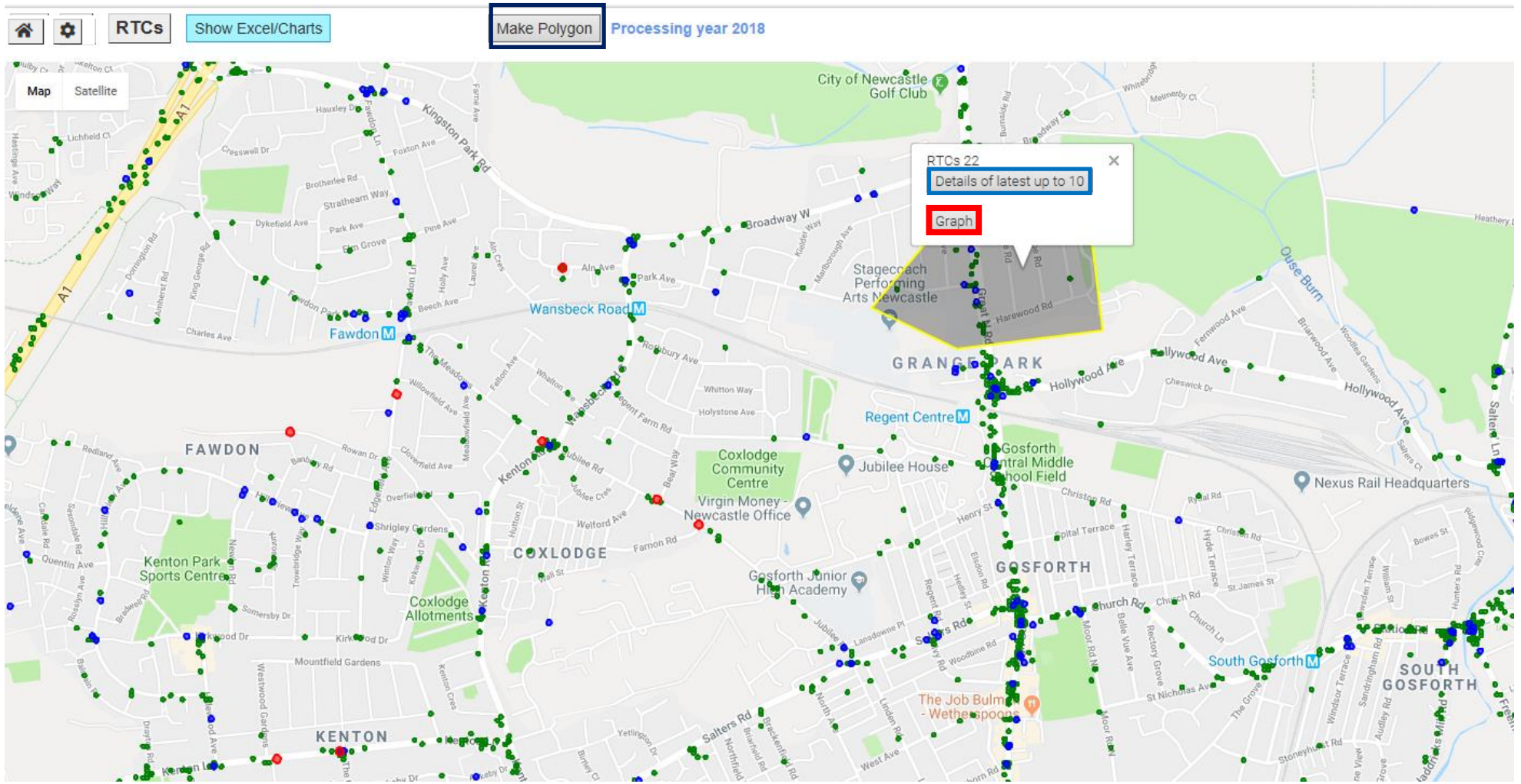
Road Traffic Collisions – Polygon Analysis 1 of 2

To make a polygon click the Make Polygon button. Then click the map repeatedly to make an unclosed polygon. Then click the same button, now called Close Polygon.

Click the polygon to display the count.

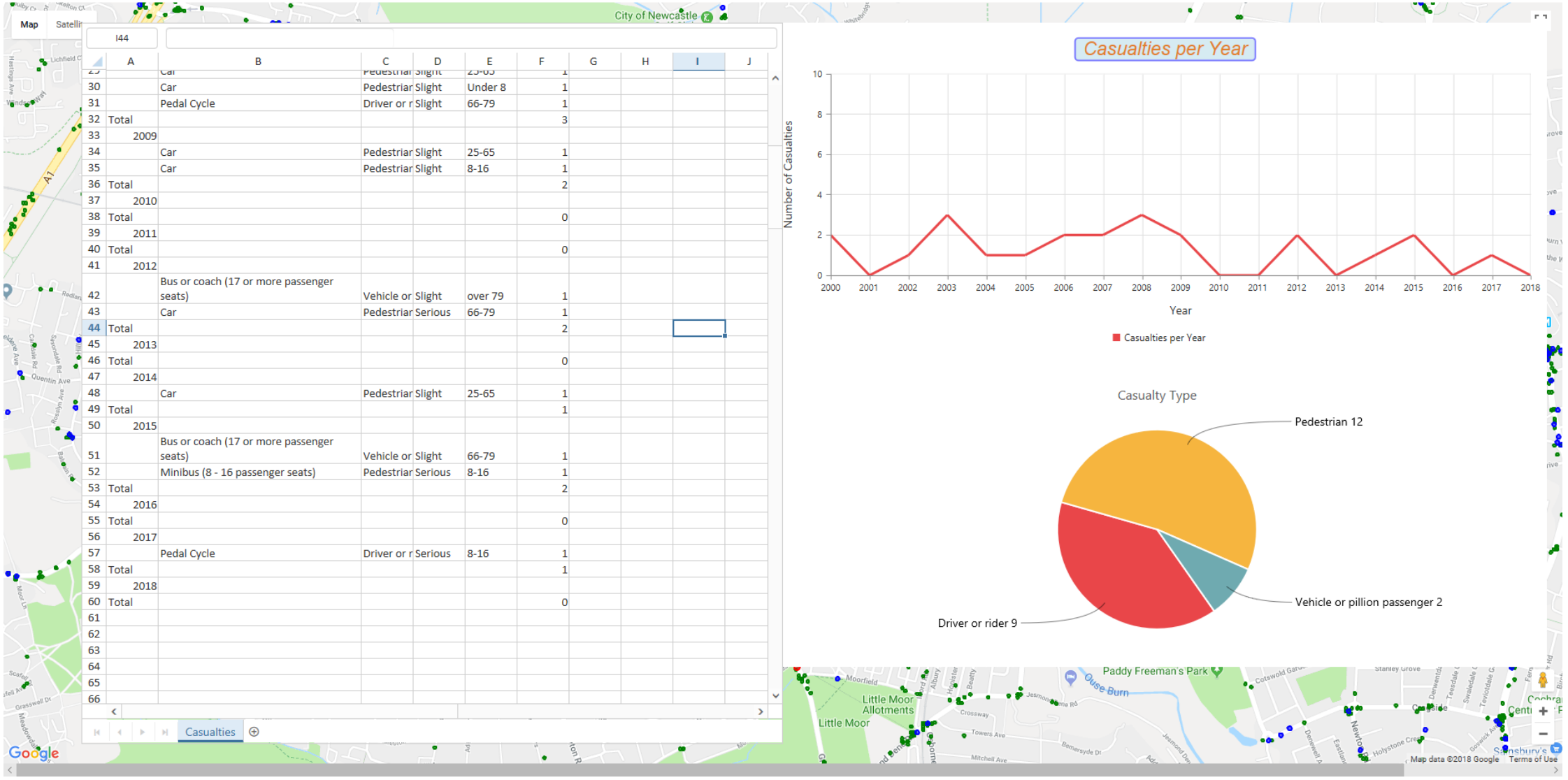
Details of up to 10 RTCs can be displayed, same format as on the previous slide.

Get a trend analysis by clicking Graph



Next slide after clicking Graph

Road Traffic Collisions – Polygon Analysis 2 of 2



	A	B	C	D	E	F	G	H	I	J
30		Car	Pedestrian	Slight	Under 8	1				
31		Pedal Cycle	Driver or r	Slight	66-79	1				
32	Total					3				
33	2009									
34		Car	Pedestrian	Slight	25-65	1				
35		Car	Pedestrian	Slight	8-16	1				
36	Total					2				
37	2010									
38	Total					0				
39	2011									
40	Total					0				
41	2012									
42		Bus or coach (17 or more passenger seats)	Vehicle or	Slight	over 79	1				
43		Car	Pedestrian	Serious	66-79	1				
44	Total					2				
45	2013									
46	Total					0				
47	2014									
48		Car	Pedestrian	Slight	25-65	1				
49	Total					1				
50	2015									
51		Bus or coach (17 or more passenger seats)	Vehicle or	Slight	66-79	1				
52		Minibus (8 - 16 passenger seats)	Pedestrian	Serious	8-16	1				
53	Total					2				
54	2016									
55	Total					0				
56	2017									
57		Pedal Cycle	Driver or r	Serious	8-16	1				
58	Total					1				
59	2018									
60	Total					0				
61										
62										
63										
64										
65										
66										

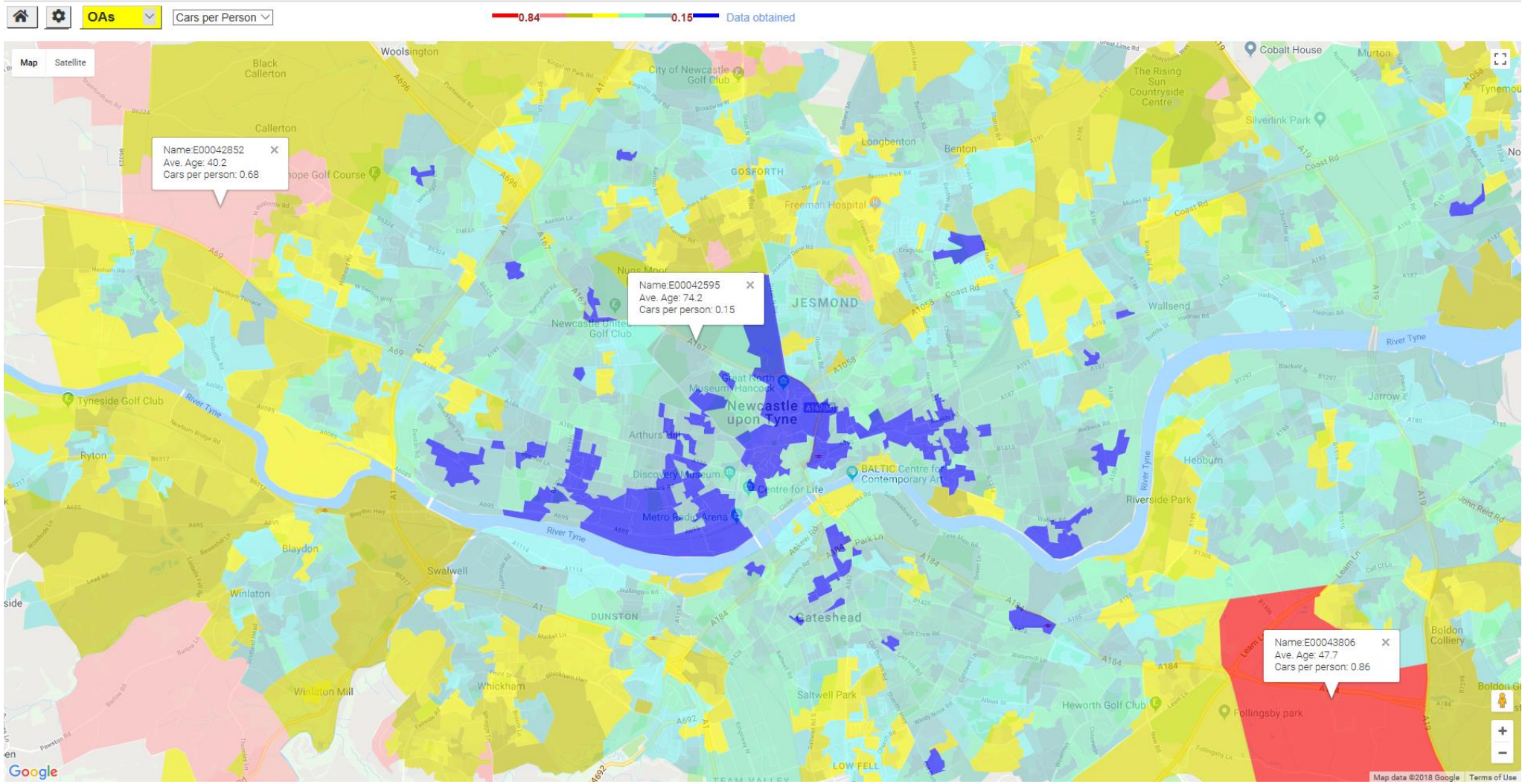
CCTV Images

Clicking a site displays a small image. Clicking an image enlarges the images and enables auto refresh, about every 5-10 minutes. Click a large image to reverse the process.

2011 Census Car Ownership and Age Profiles 1 of 2

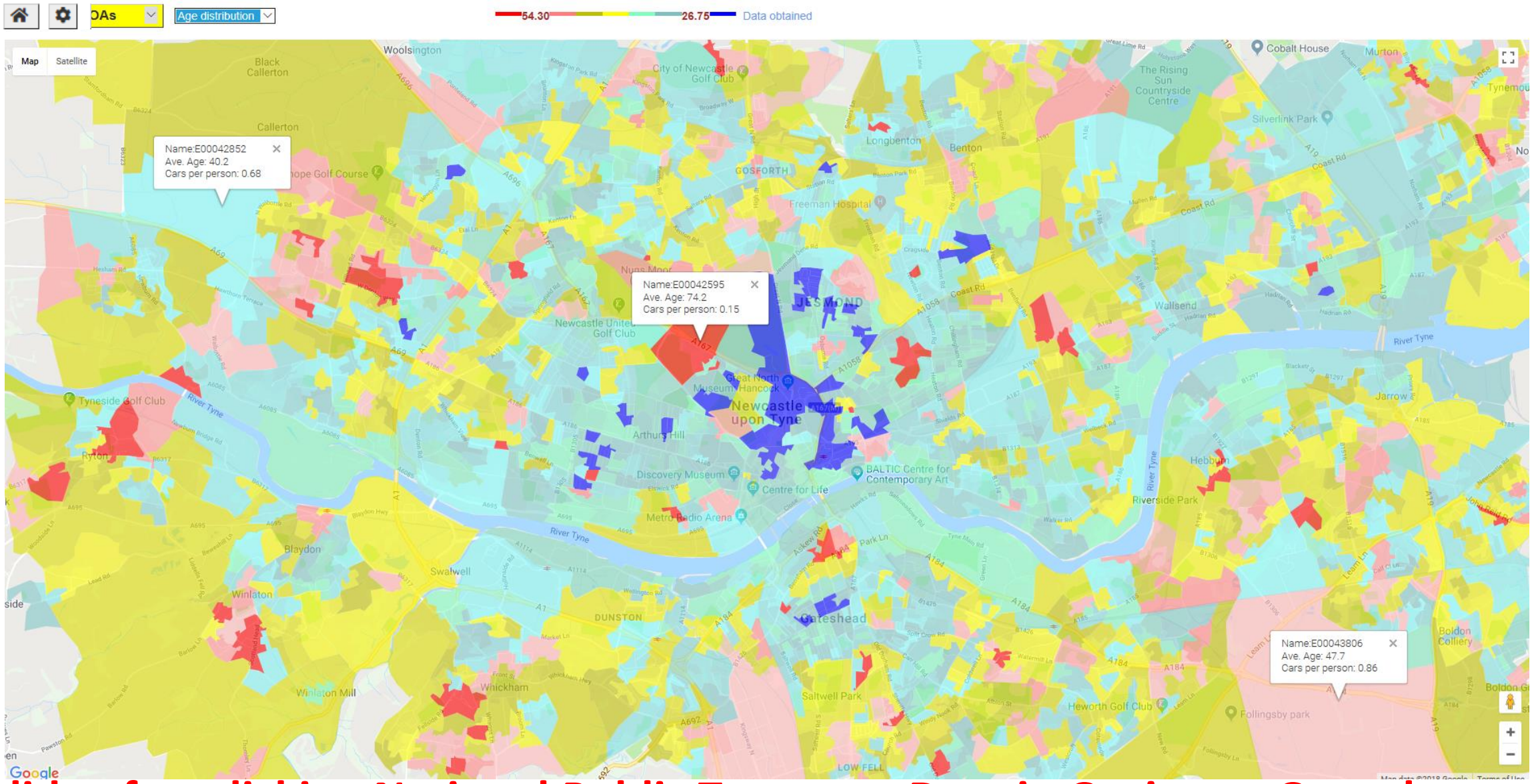
Select OAs, LSOAs, MSOAs, Regions, or Ward, from the drop down box.

Click the map for details.



Next slide after selecting Age distribution in select box

2011 Census Car Ownership and Age Profiles 2 of 2



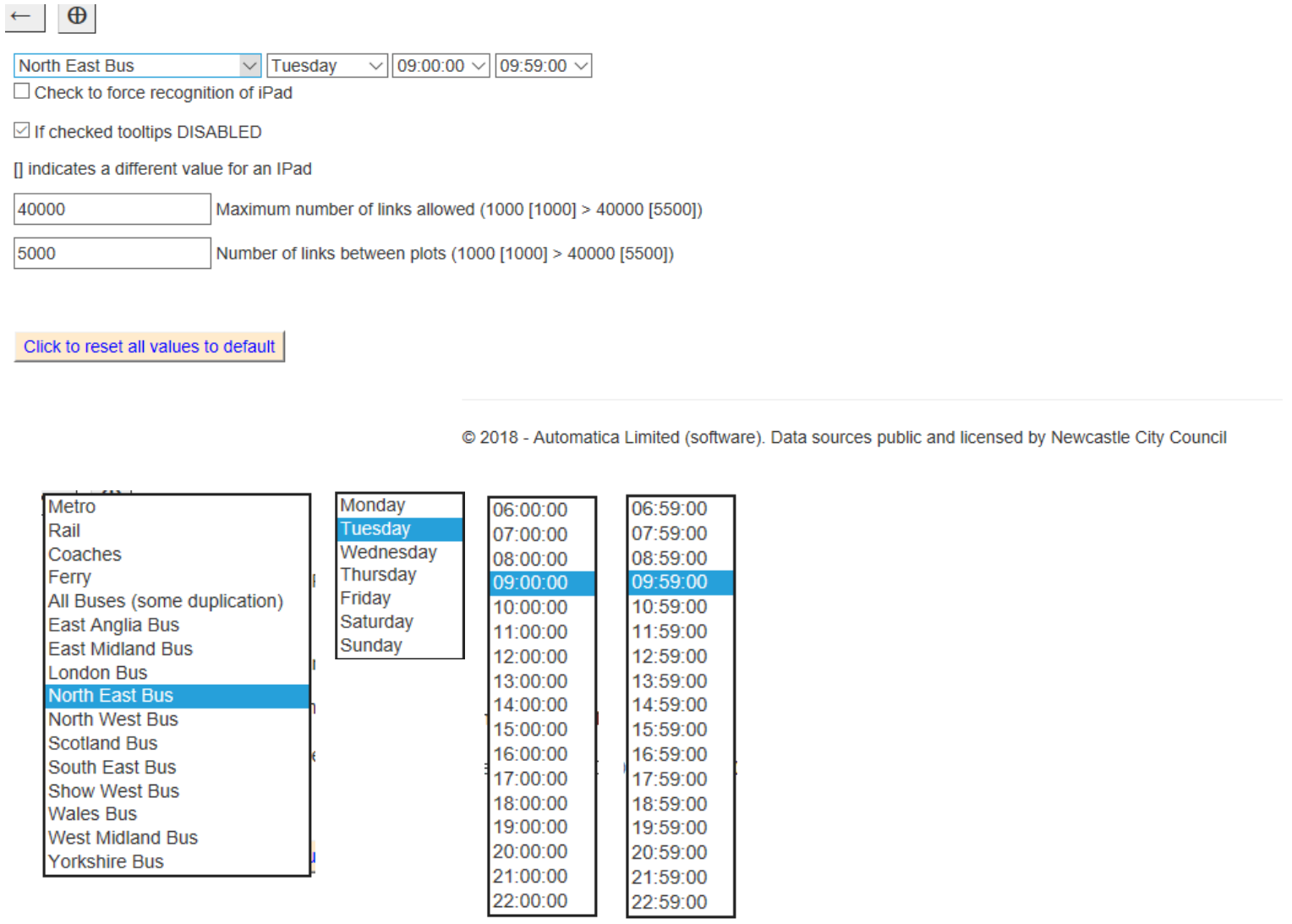
Next slide after clicking National Public Transport Data in Options + ⊕ on the new page

Public Transport Settings

The default values associated with the location selected in the Options page can be changed. There are 11 bus areas, plus “All Buses” (some duplication between areas). Three national modes Metro (light rail), Rail and Coach.

Day of week

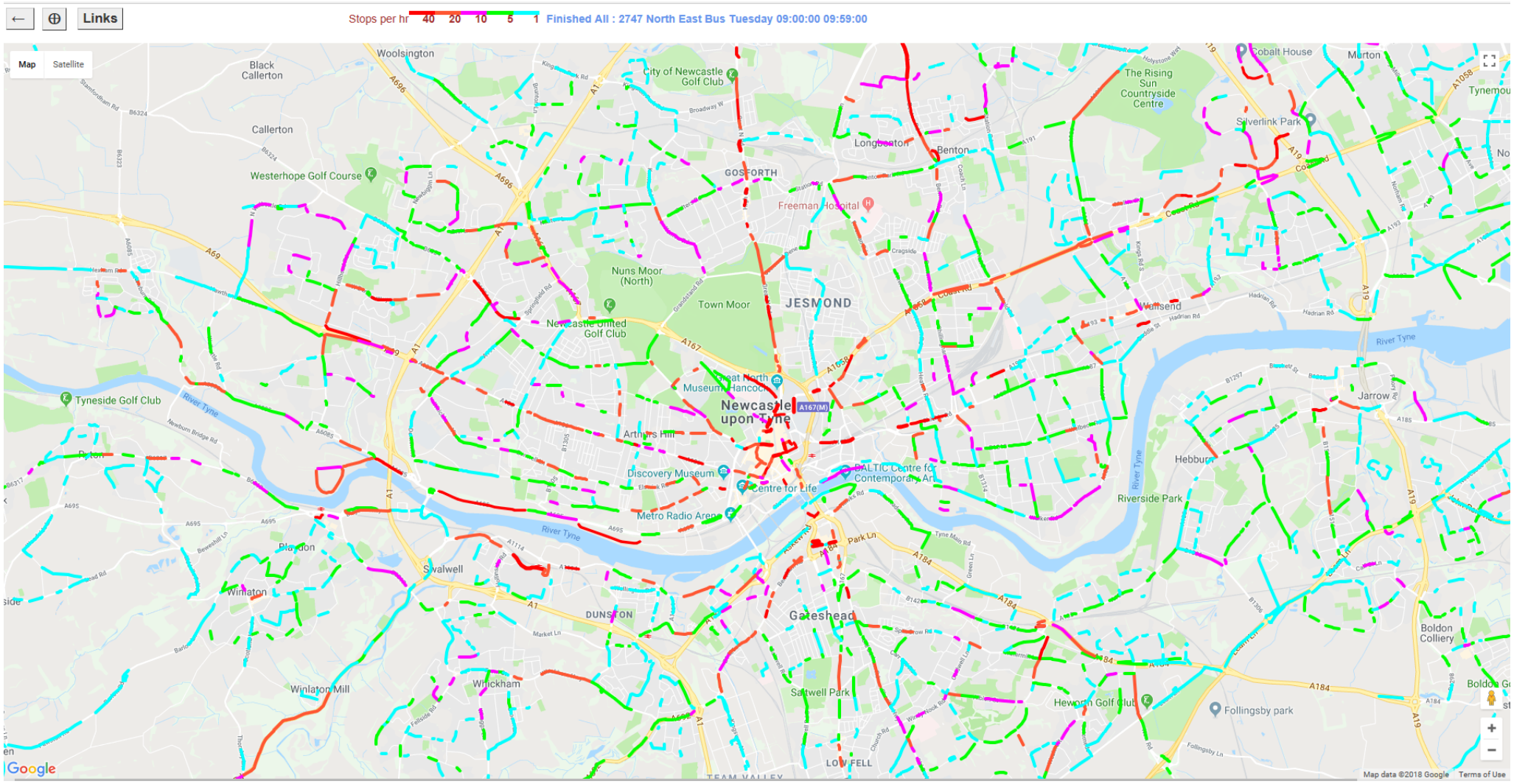
Time period
The data relates to November 2017



Next slide after clicking ⊕ and Links on the new page

Public Transport Bus Activity November 2017

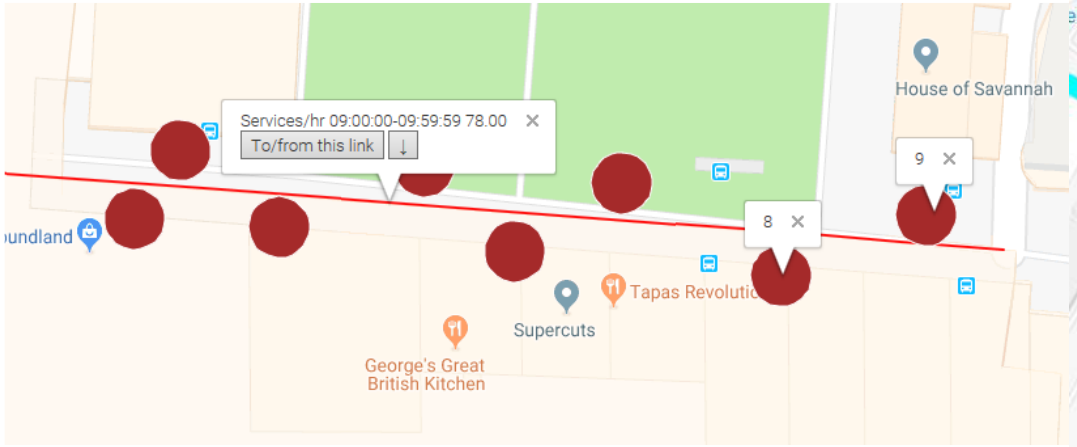
Bus stops have been mapped to OS Open Roads. Link colour reflects the number of times a bus stops on a link.

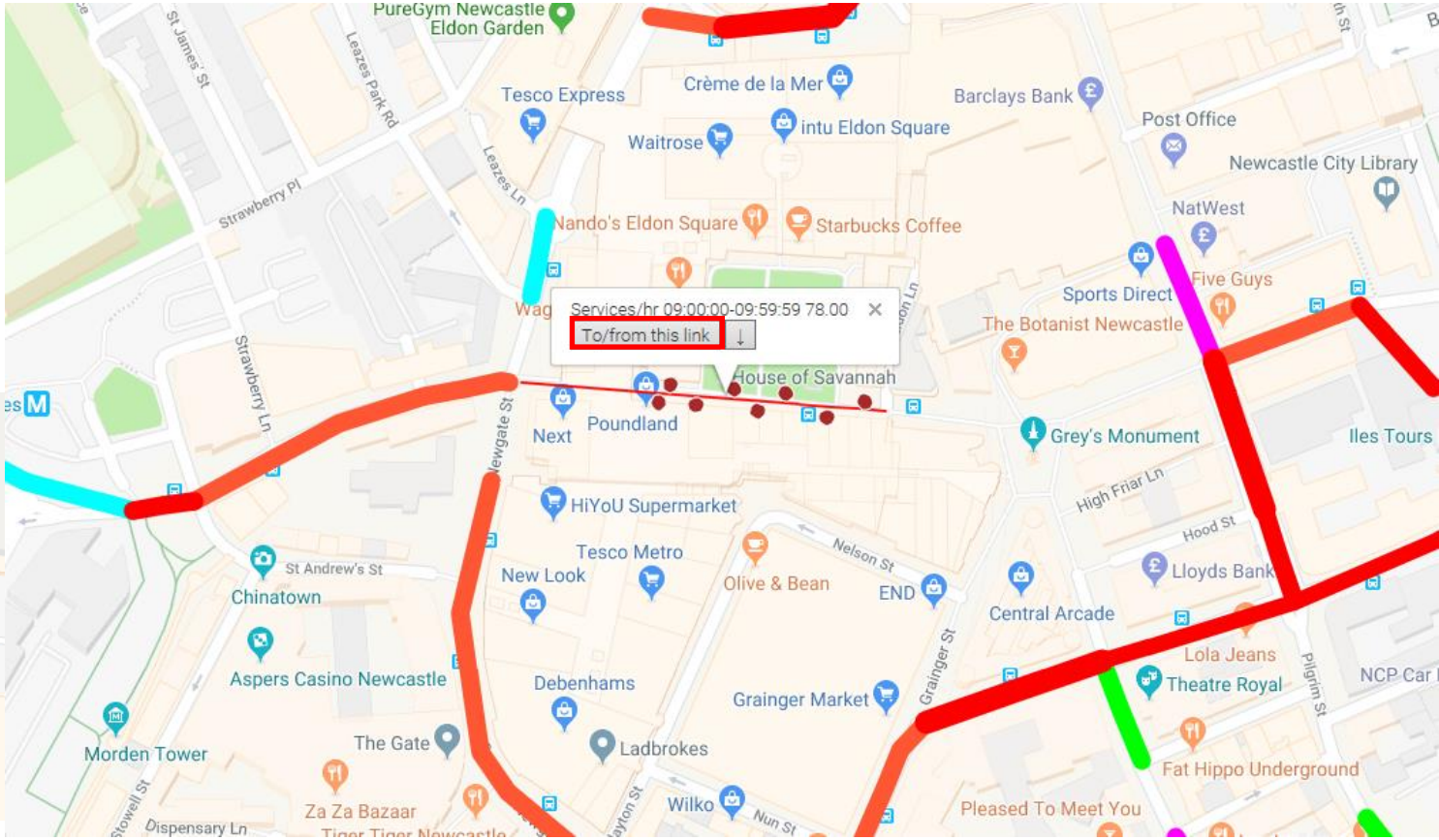


Next slide after clicking a link

Public Transport Bus Detailed Activity on a Link November 2017

Clicking a link minimises the link width, displays the stops on the link and an information box. 78 is the number of visits buses make to stops on the link. Clicking a stop will show this for the stop.

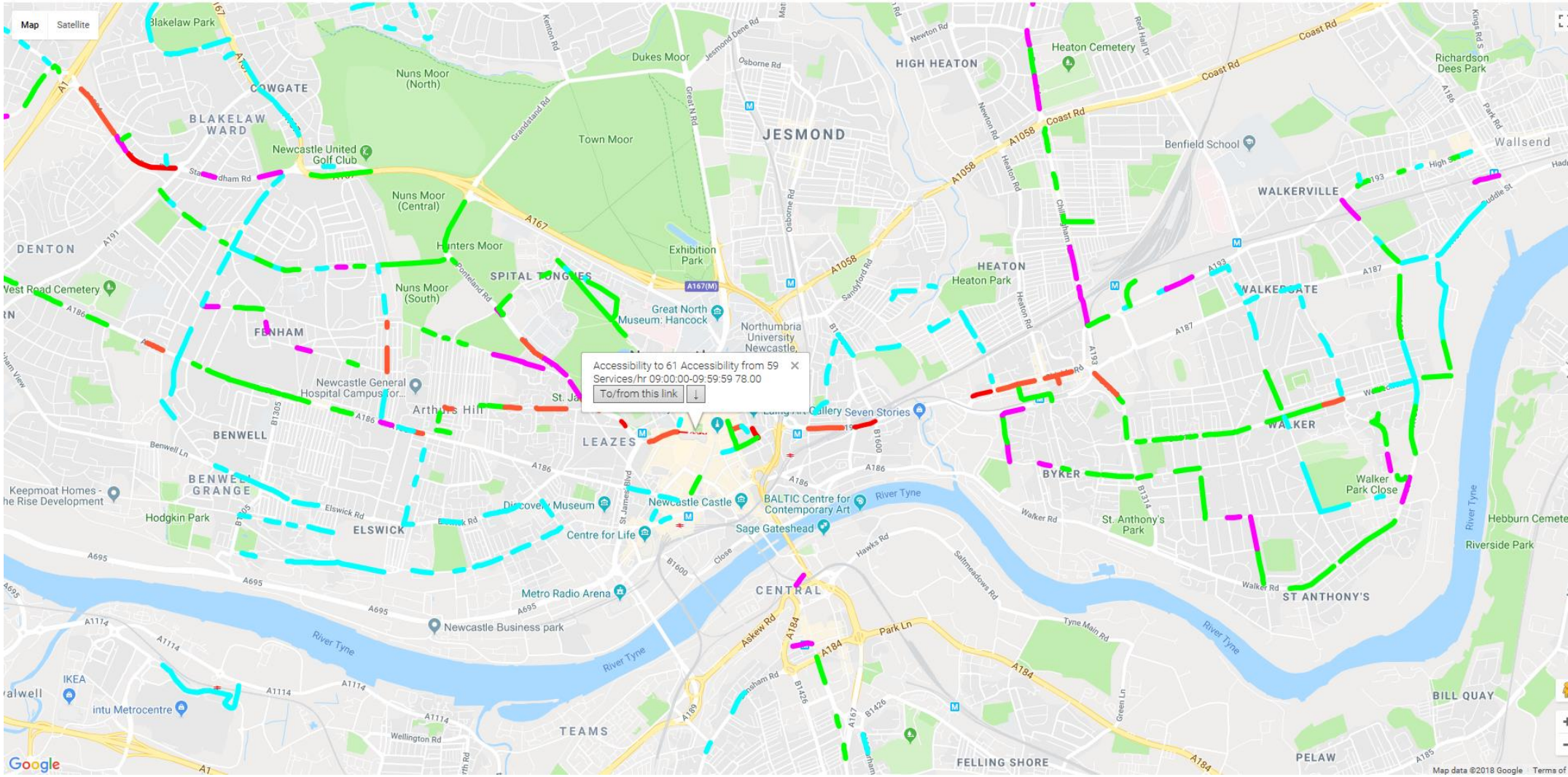




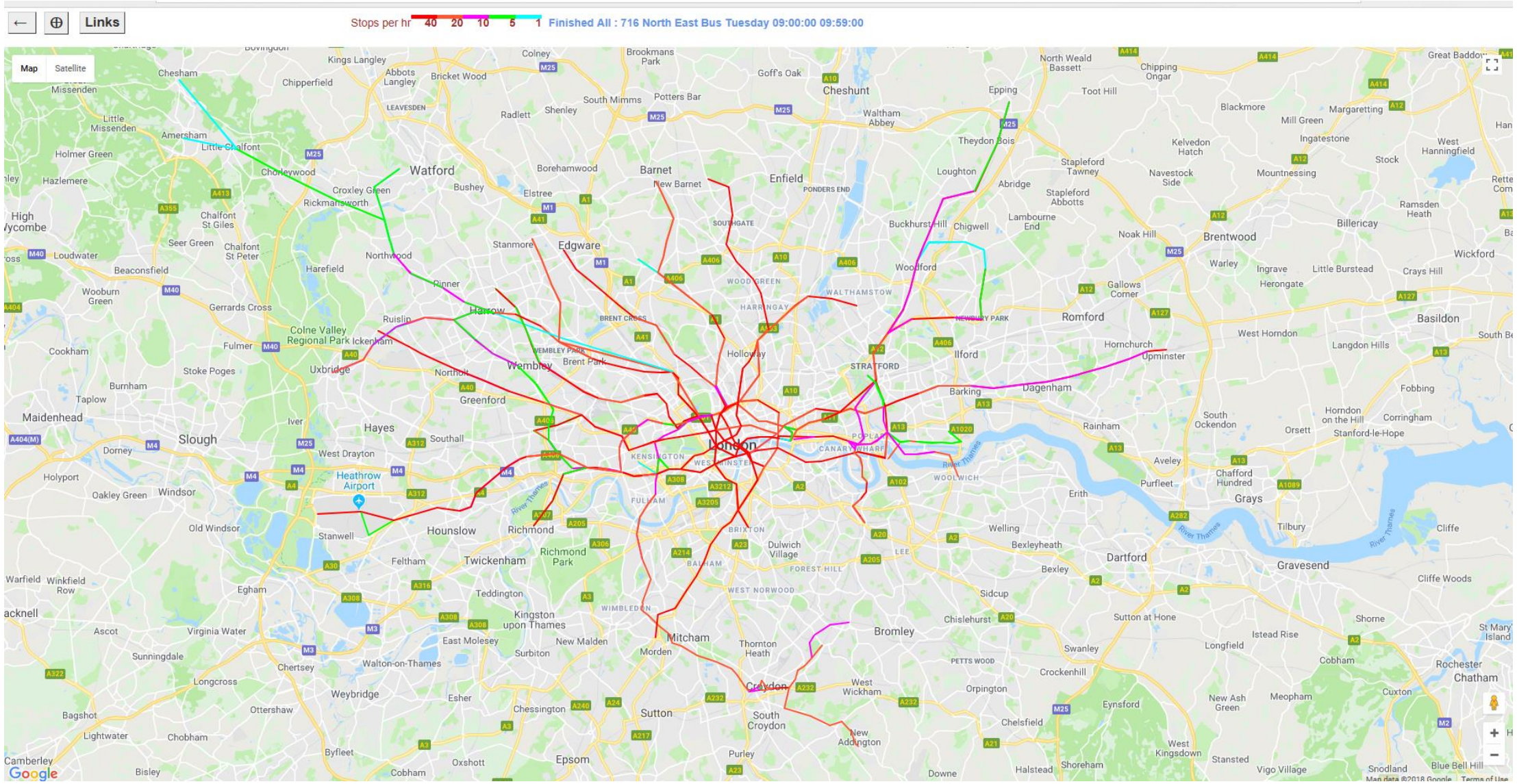
Next after clicking “To/from this link” then clicking the link again

Public Transport Bus Selected Link Analysis November 2017

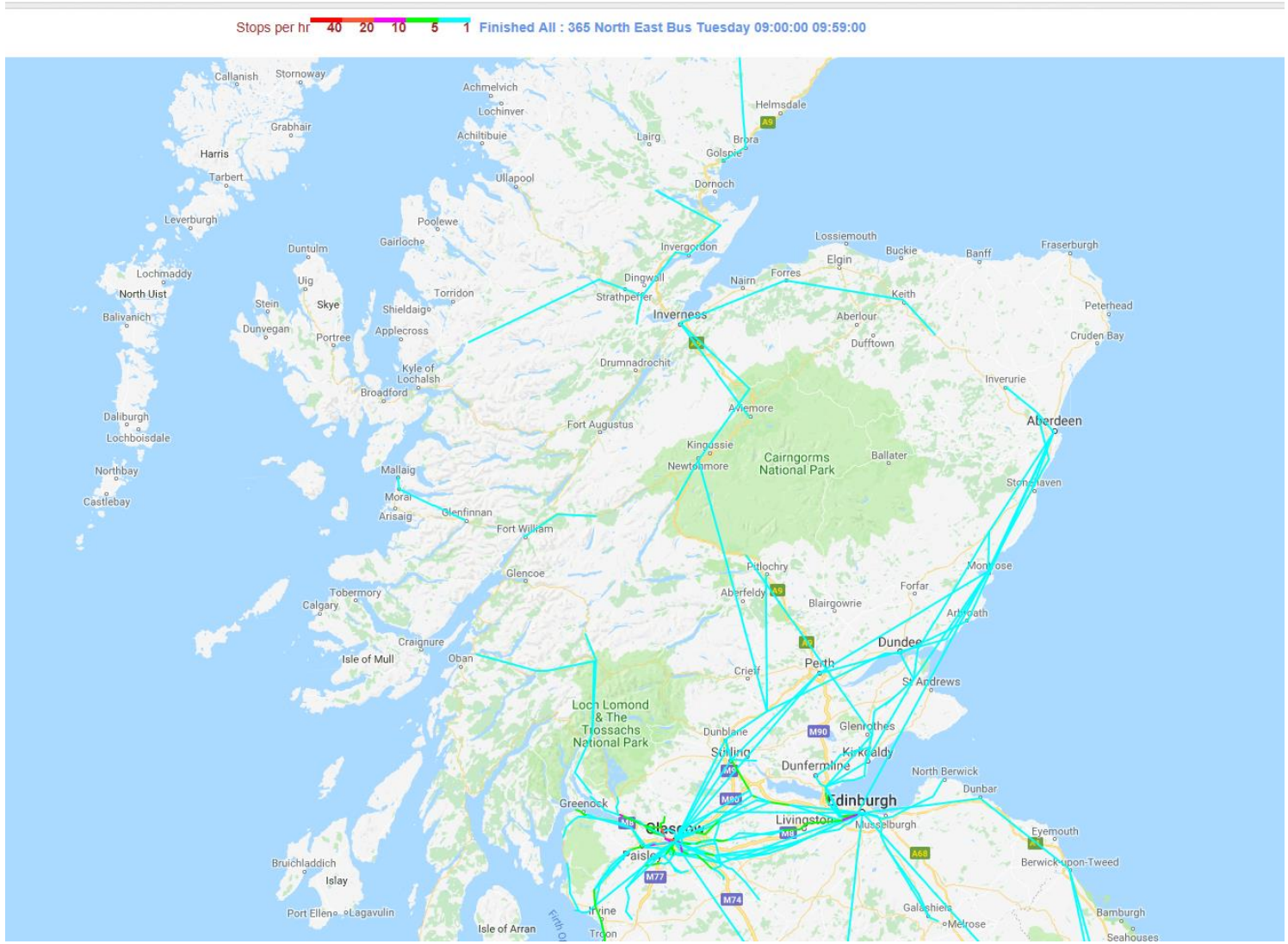
This plot shows all the links used by buses on the selected link. The accessibility statistic represents access to population on a scale of 1>100, further information on this statistic is available on request.



Public Transport Light Rail/Underground November 2017



Public Transport Rail Scotland November 2017



The End

Thank you for watching