

Transport Modelling of the WBC Local Plan

Appendix G

August 2021

Specification No. Appendix H	Client name Warrington Borough Council	Project name WMMTM_Local Plan Testing	Date 31 August 2021
Project number 60566721	Prepared by Laura Appleton	Approved by Frank Mohan	Checked by Ian Taylor
Verified by Frank Mohan			

Revision History

Revision	Revision date	Details	Authorised	Name	Position
1	14/07/21	Appendix G	LA	Laura Appleton	Principal Consultant

1. Appendix G – Additional Cordon Information

Inner and Outer Cordon Site List

Inner Cordon Sites	Outer Cordon Sites
Knutsford Road	A56 Chester Rd
Wilderspool Causeway	Warrington Rd Hatton
Chester Road	Hatton Lane
Longshaw Street	A49 Tarporley Road
Winwick Road A49	Arley Road
Hallfields Road	Barleycastle Lane
Smith Drive	A50 Cliff Lane
Old Liverpool Road (East)	Stockport Road
Sankey Way (East)	Manchester Road
Padgate Lane (West)	Stockport Road
Manchester Road (West)	Harpers Road
Farrell Street (North West)	Birchwood Way
Centre park link	Fearnhead Lane
	Crab Lane
	Mill Lane
	Winwick Road
	A562 Widnes Road
	A5080 South Lane
	A57 Liverpool Road
	Skyline Drive
	A57 Liverpool Road
	A5080 South Lane
	A562 Widnes Road

Cross-Boundary Cordon Links

1.2 List of links crossing between Warrington Borough and a neighbouring borough used in flow analysis.

Figure G1: Cross Border 2031 AM Scenario 2

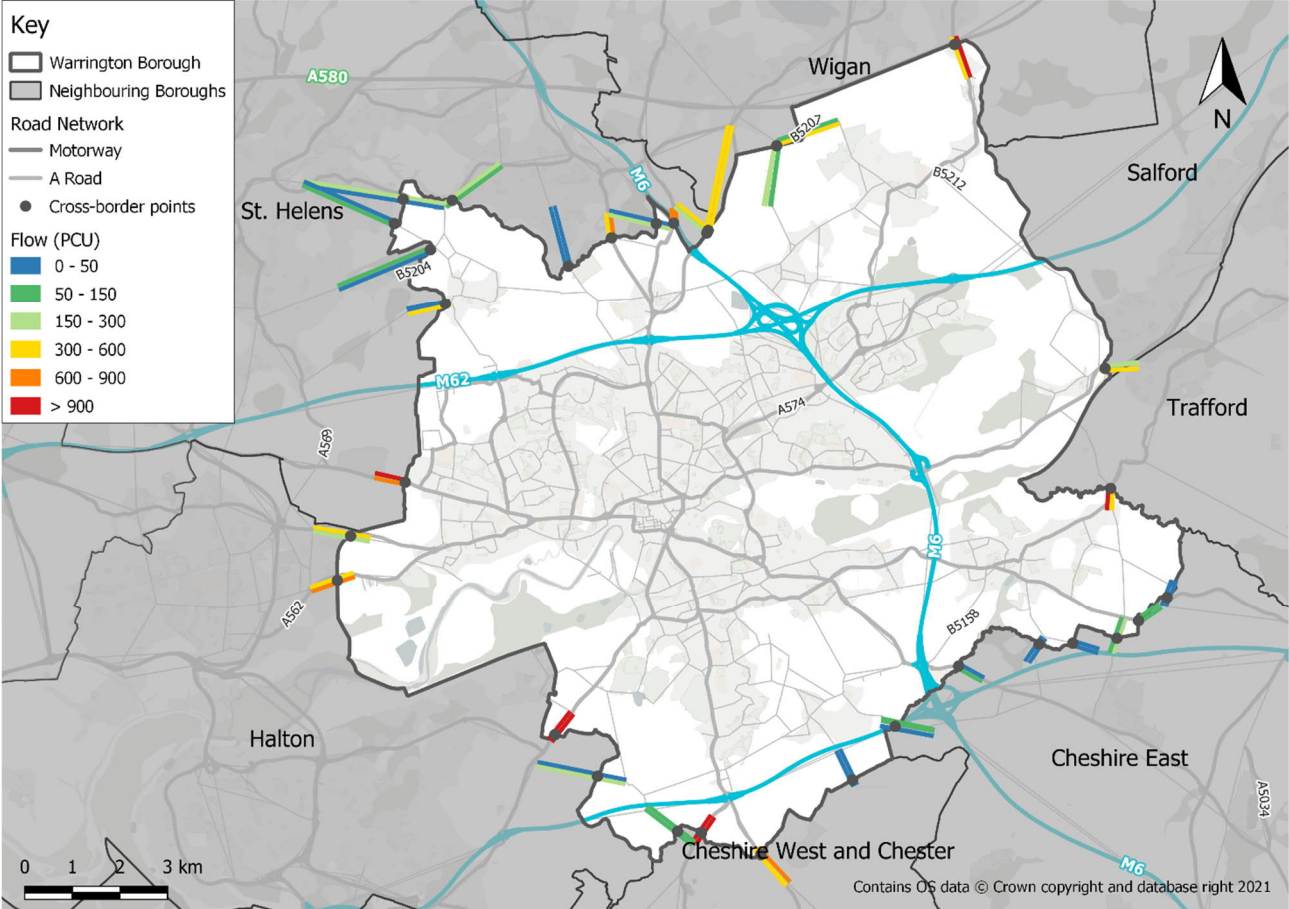


Figure G2: Cross Border 2031 PM Scenario 2

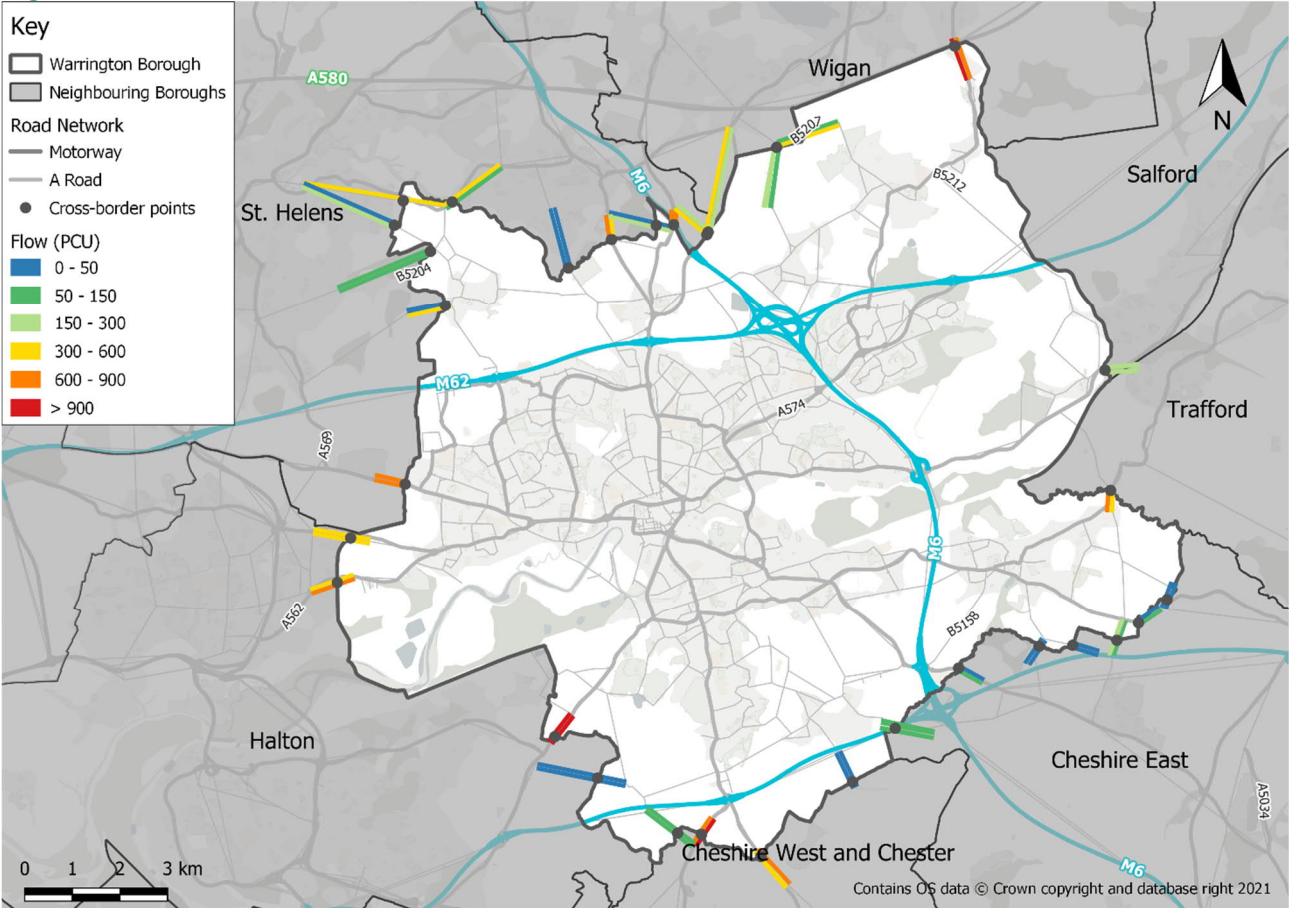


Figure G3: Cross Border 2038 AM Scenario 2

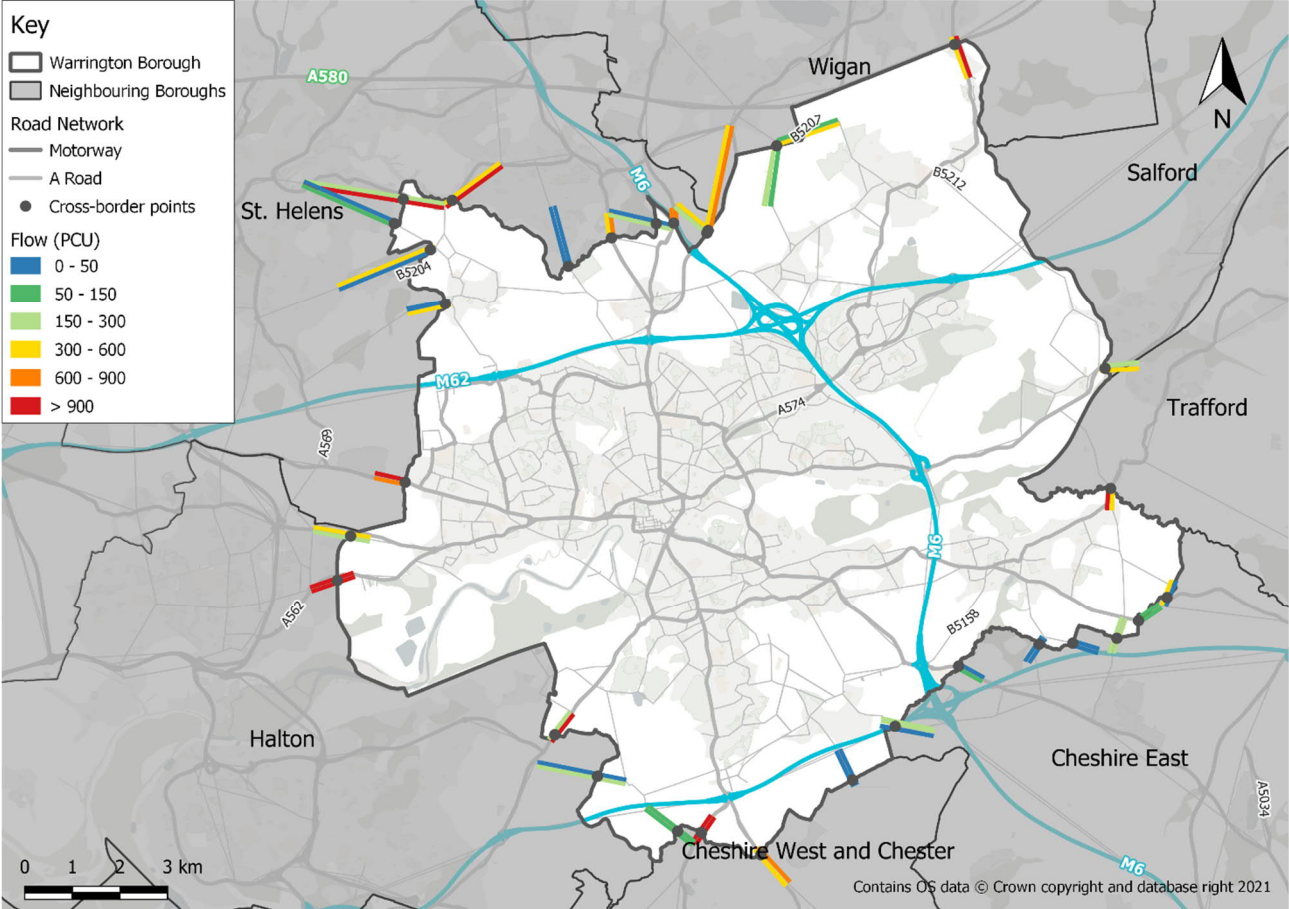
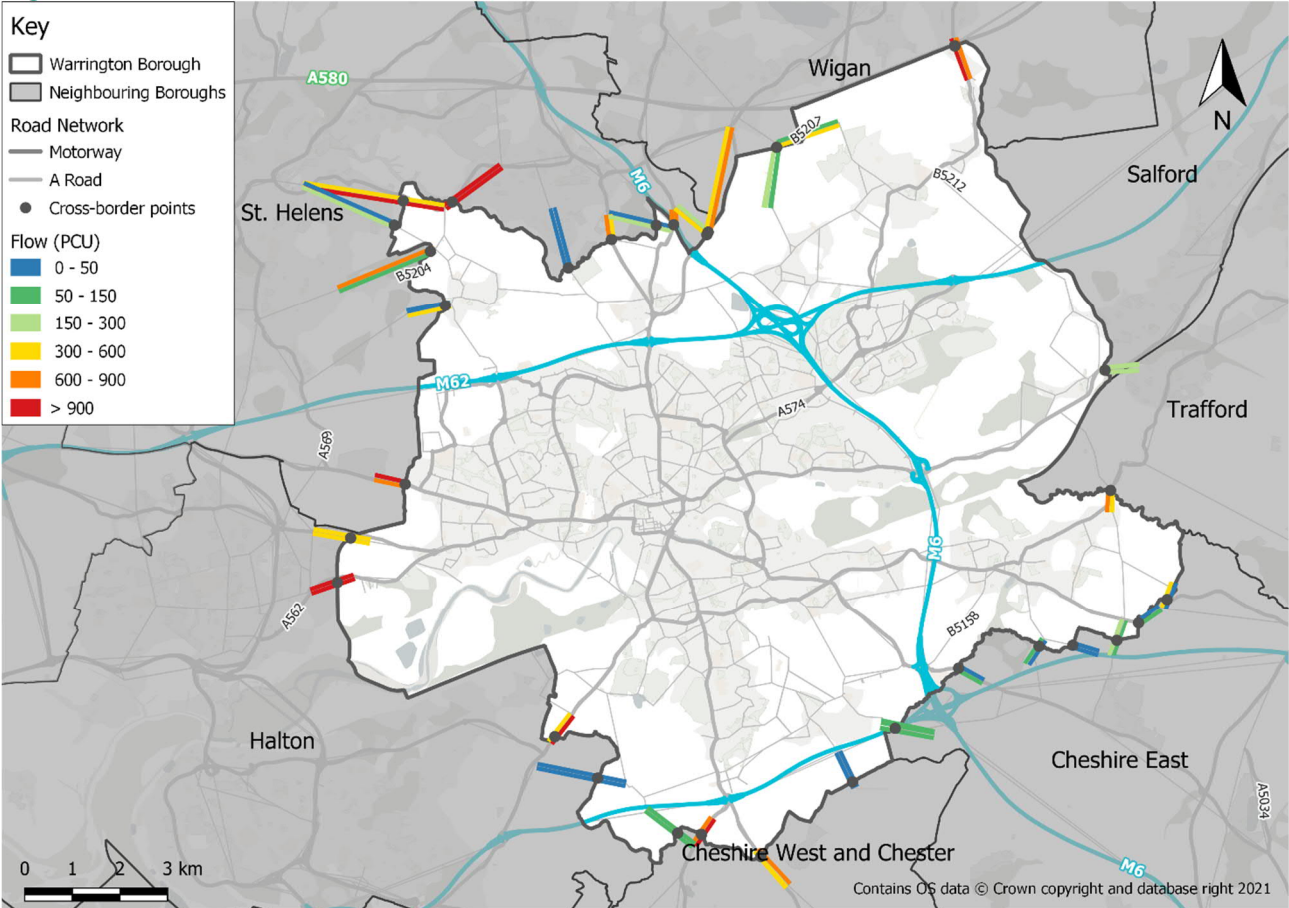
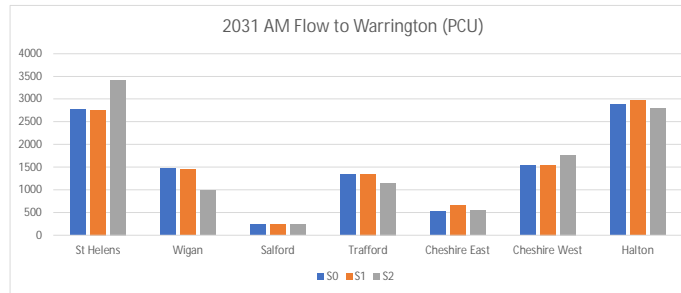
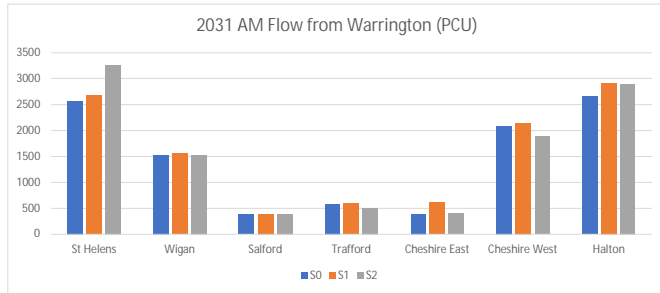


Figure G4: Cross Border 2038 PM Scenario 2



2031 AM Cross-border Flows



Actual Flow PCU

Borough	Ref	Base	S0	S1	S2
		From Warrington	From Warrington	From Warrington	From Warrington
		2031AM	2031AM	2031AM	2031AM
St Helens	STH	2390	2570	2670	3260
Wigan	WIG	1470	1530	1560	1530
Salford	SAL	570	380	390	390
Trafford	TRA	530	580	590	510
Cheshire East	CHE	270	390	610	400
Cheshire West	CHW	1590	2090	2140	1880
Halton	HAL	2260	2650	2910	2890

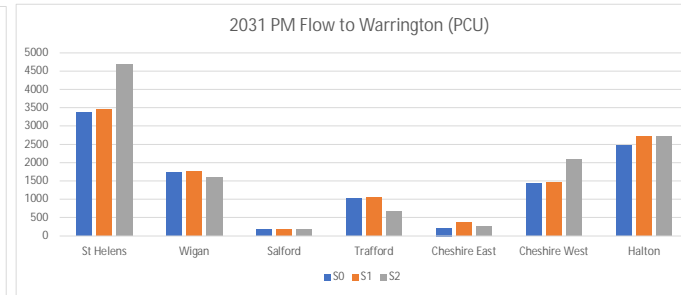
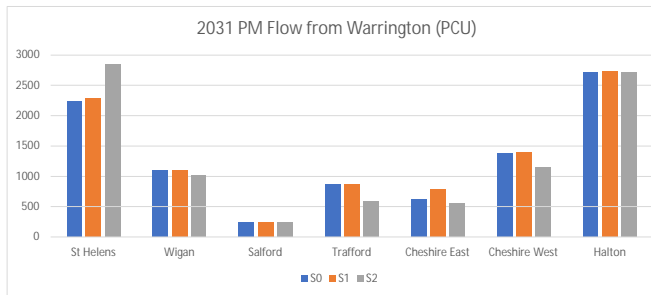
Borough	Ref	Base	S0	S1	S2
		To Warrington	To Warrington	To Warrington	To Warrington
		2031AM	2031AM	2031AM	2031AM
St Helens	STH	2310	2770	2760	3420
Wigan	WIG	1320	1470	1450	990
Salford	SAL	160	240	230	240
Trafford	TRA	1070	1340	1350	1150
Cheshire East	CHE	380	520	670	550
Cheshire West	CHW	1270	1540	1550	1770
Halton	HAL	2240	2880	2970	2790

S0 vs S2

base vs S0

	S0	S2	base vs S0	S0 vs S2
St Helens	26.8%	23.5%	7.5%	19.9%
Wigan	0.0%	-32.7%	4.1%	11.4%
Salford	2.6%	0.0%	-33.3%	50.0%
Trafford	-12.1%	-14.2%	9.4%	25.2%
Cheshire East	2.6%	5.8%	44.4%	36.8%
Cheshire West	-10.0%	14.9%	31.4%	21.3%
Halton	9.1%	-3.1%	17.3%	28.6%
Total	6.6%	1.4%	12.2%	23.0%

2031 PM Cross-border Flows



Actual Flow PCU

Borough	Ref	Base	S0	S1	S2
		From Warrington	From Warrington	From Warrington	From Warrington
		2031PM	2031PM	2031PM	2031PM
St Helens	STH	1800	2240	2280	2840
Wigan	WIG	1000	1100	1100	1020
Salford	SAL	140	230	230	230
Trafford	TRA	880	870	860	590
Cheshire East	CHE	460	610	780	560
Cheshire West	CHW	1190	1380	1390	1150
Halton	HAL	2280	2710	2730	2720

Borough	Ref	Base	S0	S1	S2
		To Warrington	To Warrington	To Warrington	To Warrington
		2031PM	2031PM	2031PM	2031PM
St Helens	STH	3000	3380	3450	4680
Wigan	WIG	1230	1730	1740	1590
Salford	SAL	190	170	180	170
Trafford	TRA	910	1020	1040	680
Cheshire East	CHE	220	210	360	250
Cheshire West	CHW	1320	1440	1450	2090
Halton	HAL	2250	2480	2720	2710

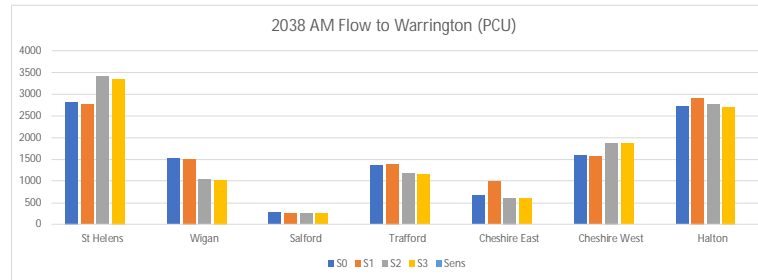
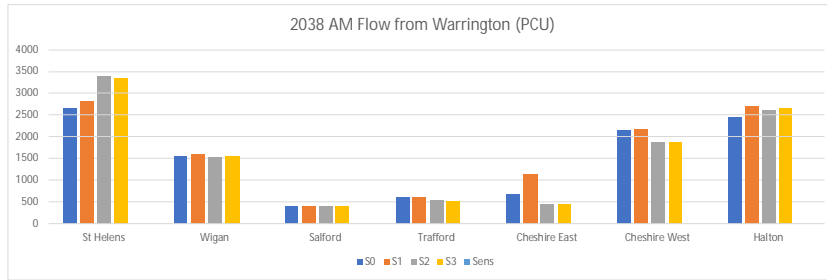
S0 vs S2

base vs S0

	S0	S2	base vs S0	S0 vs S2
St Helens	26.8%	38.5%	24.4%	12.7%
Wigan	-7.3%	-8.1%	10.0%	40.7%
Salford	0.0%	0.0%	64.3%	-10.5%
Trafford	-32.2%	-33.3%	-1.1%	12.1%
Cheshire East	-8.2%	19.0%	32.6%	-4.5%
Cheshire West	-16.7%	45.1%	16.0%	9.1%
Halton	0.4%	9.3%	18.9%	10.2%
Total	-0.3%	16.7%	17.9%	14.4%

1390 1310

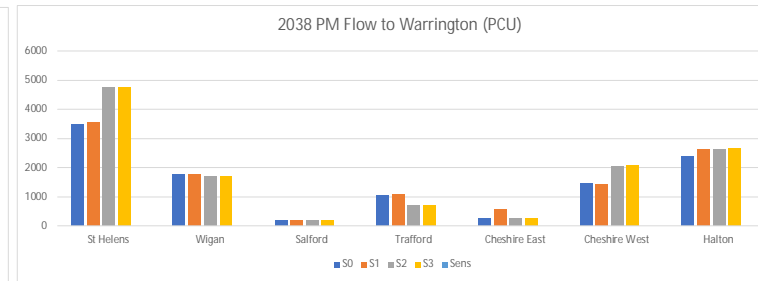
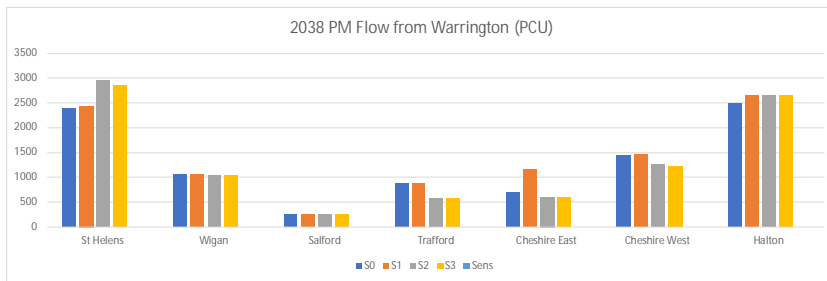
2038 AM Cross-border Flows



Actual Flow PCU		base	S0	S1	S2	S3	Sens
		From Warrington	From Warrington	From Warrington	From Warrington	From Warrington	From Warrington
		2038AM	2038AM	2038AM	2038AM	2038AM	2038AM
Borough	Ref						
St Helens	STH	2390	2670	2820	3390	3340	
Wigan	WIG	1470	1550	1610	1540	1550	
Salford	SAL	570	390	410	400	400	
Trafford	TRA	530	600	610	530	520	
Cheshire East	CHE	270	680	1140	460	450	
Cheshire West	CHW	1590	2150	2180	1870	1870	
Halton	HAL	2030	2450	2720	2630	2670	
Total		8850	10490	11490	10820	10800	0

Actual Flow PCU		base	S0	S1	S2	S3	Sens	S2vsS0	S2vsS0	base vs S0	
		To Warrington	To Warrington	To Warrington	To Warrington	To Warrington	To Warrington				
		2038AM	2038AM	2038AM	2038AM	2038AM	2038AM				
		2310	2820	2770	3420	3360		27.0%	21.3%	11.7%	22.1%
		1320	1530	1520	1040	1020		-0.6%	-32.0%	5.4%	15.9%
		160	280	260	260	260		2.6%	-7.1%	-31.6%	75.0%
		1070	1360	1390	1170	1150		-11.7%	-14.0%	13.2%	27.1%
		380	670	990	610	600		-32.4%	-9.0%	151.9%	76.3%
		1270	1580	1570	1880	1870		-13.0%	19.0%	35.2%	24.4%
		2000	2720	2910	2760	2710		7.3%	1.5%	20.7%	36.0%
Total		8510	10960	11410	11140	10970	0	3.1%	1.6%	18.5%	28.8%
										1640	2450

2038 PM Cross-border Flows



Actual Flow PCU		base	S0	S1	S2	S3	Sens
		From Warrington	From Warrington	From Warrington	From Warrington	From Warrington	From Warrington
		2038PM	2038PM	2038PM	2038PM	2038PM	2038PM
Borough	Ref						
St Helens	STH	1800	2390	2430	2960	2850	
Wigan	WIG	1000	1050	1060	1040	1040	
Salford	SAL	140	240	240	250	250	
Trafford	TRA	880	880	870	570	570	
Cheshire East	CHE	460	690	1150	600	590	
Cheshire West	CHW	1190	1440	1470	1260	1210	
Halton	HAL	1930	2490	2640	2640	2640	
Total		7400	9180	9860	9320	9150	0

Actual Flow PCU		base	S0	S1	S2	S3	Sens	S2vsS0	S2vsS0	base vs S0	
		To Warrington	To Warrington	To Warrington	To Warrington	From Warrington	From Warrington				
		2038PM	2038PM	2038PM	2038PM	2038PM	2038PM				
		3000	3460	3540	4780	4750		23.8%	38.2%	32.8%	15.3%
		1230	1750	1770	1720	1700		-1.0%	-1.7%	5.0%	42.3%
		190	180	180	190	190		4.2%	5.6%	71.4%	-5.3%
		910	1040	1070	700	700		-35.2%	-32.7%	0.0%	14.3%
		220	240	580	270	270		-13.0%	12.5%	50.0%	9.1%
		1320	1470	1420	2050	2090		-12.5%	39.5%	21.0%	11.4%
		2080	2370	2640	2610	2650		6.0%	10.1%	29.0%	13.9%
Total		8950	10510	11200	12320	12350	0	1.5%	17.2%	24.1%	17.4%
										1780	1560