

TPTS+

Reference Demand (OD)

Base Year 2015					2031				2041			
Purpose	AM	IP	PM	12-hour	AM	IP	PM	12-hour	AM	IP	PM	12-hour
Business	323,830	345,909	343,179	4,076,481	364,042	386,080	383,696	4,559,693	387,709	409,661	407,295	4,842,976
Commute	2,379,779	912,452	2,238,292	19,328,925	2,551,883	976,268	2,398,893	20,709,936	2,667,214	1,020,208	2,507,260	21,644,673
Other	2,138,045	2,722,869	3,052,070	31,907,561	2,464,305	3,136,063	3,521,398	36,773,486	2,636,343	3,356,139	3,769,576	39,354,593
Car	4,841,654	3,981,230	5,633,541	55,312,966	5,380,229	4,498,411	6,303,988	62,043,116	5,691,266	4,786,009	6,684,131	65,842,242
LGV	607,023	556,666	589,780	6,930,405	754,227	691,868	732,575	8,611,614	856,046	785,257	831,477	9,774,106
HGV	325,583	336,565	237,279	3,707,974	329,623	340,936	240,060	3,754,664	341,974	353,746	249,026	3,895,477
Total	5,774,260	4,874,461	6,460,600	65,951,346	6,464,080	5,531,214	7,276,623	74,409,394	6,889,286	5,925,011	7,764,633	79,511,825

Change from Base								
Purpose	AM	IP	PM	12-hour	AM	IP	PM	12-hour
Business	40,212	40,171	40,518	483,213	63,879	63,752	64,116	766,495
Commute	172,103	63,816	160,602	1,381,011	287,435	107,756	268,968	2,315,748
Other	326,260	413,194	469,328	4,865,926	498,298	633,270	717,506	7,447,032
Car	538,575	517,181	670,447	6,730,150	849,612	804,778	1,050,590	10,529,276
LGV	147,204	135,202	142,795	1,681,209	249,022	228,591	241,696	2,843,701
HGV	4,040	4,371	2,781	46,690	16,391	17,182	11,747	187,503
Total	689,819	656,753	816,023	8,458,048	1,115,025	1,050,551	1,304,033	13,560,479

%Growth from Base								
Purpose	AM	IP	PM	12-hour	AM	IP	PM	12-hour
Business	12.4%	11.6%	11.8%	11.9%	19.7%	18.4%	18.7%	18.8%
Commute	7.2%	7.0%	7.2%	7.1%	12.1%	11.8%	12.0%	12.0%
Other	15.3%	15.2%	15.4%	15.3%	23.3%	23.3%	23.5%	23.3%
Car	11.1%	13.0%	11.9%	12.2%	17.5%	20.2%	18.6%	19.0%
LGV	24.3%	24.3%	24.2%	24.3%	41.0%	41.1%	41.0%	41.0%
HGV	1.2%	1.3%	1.2%	1.3%	5.0%	5.1%	5.0%	5.1%
Total	11.9%	13.5%	12.6%	12.8%	19.3%	21.6%	20.2%	20.6%

Effects of VDM on Car Demand

2031 Fixed Demand				
Purpose	AM	IP	PM	12-hour
Business	364,042	386,080	383,696	4,559,693
Commute	2,551,883	976,268	2,398,893	20,709,936
Other	2,464,305	3,136,063	3,521,398	36,773,486
Car	5,380,229	4,498,411	6,303,988	62,043,116
LGV	754,227	691,868	732,575	8,611,614
HGV	329,623	340,936	240,060	3,754,664
Total	6,464,080	5,531,214	7,276,623	74,409,394

Change from Fixed Demand				
Purpose	AM	IP	PM	12-hour
Business	-1,455	-4,211	-3,540	-40,254
Commute	-14,204	-9,772	-10,043	-131,376
Other	-775	-6,413	-4,194	-53,382
Car	-16,435	-20,396	-17,777	-225,012
LGV	0	0	0	0
HGV	0	0	0	0
Total	-16,435	-20,396	-17,777	-225,012

NTEM Core

Do-Min			
AM	IP	PM	12-hour
362,587	381,868	380,156	4,519,440
2,537,678	966,496	2,388,850	20,578,559
2,463,530	3,129,651	3,517,204	36,720,104
5,363,794	4,478,015	6,286,211	61,818,104
754,227	691,868	732,575	8,611,614
329,623	340,936	240,060	3,754,664
6,447,645	5,510,818	7,258,846	74,184,382

TPTS Only

AM	IP	PM	12-hour
362,357	381,774	379,896	4,517,400
2,537,482	966,520	2,388,899	20,578,264
2,463,410	3,129,764	3,517,264	36,720,604
5,363,249	4,478,058	6,286,058	61,816,267
754,227	691,868	732,575	8,611,614
329,623	340,936	240,060	3,754,664
6,447,100	5,510,861	7,258,694	74,182,545

Change from Do-Min			
AM	IP	PM	12-hour
-230	-95	-261	-2,040
-196	24	49	-296
-120	113	59	499
-545	43	-153	-1,836
0	0	0	0
0	0	0	0
-545	43	-153	-1,836

TEMPRo Growth Summary

Whole GB		AM	IP	PM	12-hr
2015-2031	Origin	1.126	1.155	1.125	1.140
	Destination	1.126	1.155	1.125	1.140
	Average	1.126	1.155	1.125	1.140
2015-2041	Origin	1.200	1.239	1.198	1.219
	Destination	1.200	1.239	1.198	1.219
	Average	1.200	1.239	1.198	1.219

Study Area		AM	IP	PM	12-hr
2015-2031	Origin	1.121	1.151	1.121	1.136
	Destination	1.123	1.151	1.120	1.136
	Average	1.122	1.151	1.121	1.136
2015-2041	Origin	1.195	1.236	1.194	1.215
	Destination	1.198	1.236	1.193	1.216
	Average	1.197	1.236	1.193	1.215

Low Growth Scenario

Do-Min			
AM	IP	PM	12-hour
345,207	356,073	361,689	4,257,126
2,093,654	796,749	1,971,627	16,976,336
2,154,389	2,737,806	3,077,865	32,123,595
4,593,250	3,890,628	5,411,180	53,357,057
868,586	796,444	843,961	9,916,302
366,042	378,608	266,604	4,169,586
5,827,877	5,065,679	6,521,746	67,442,945

%Change from NTEM Core			
AM	IP	PM	12-hour
-4.8%	-6.8%	-4.9%	-5.8%
-17.5%	-17.6%	-17.5%	-17.5%
-12.5%	-12.5%	-12.5%	-12.5%
-14.4%	-13.1%	-13.9%	-13.7%
15.2%	15.1%	15.2%	15.2%
11.0%	11.0%	11.1%	11.1%
-9.6%	-8.1%	-10.2%	-9.1%

Optimised Package

AM	IP	PM	12-hour
345,192	355,892	361,433	4,255,228
2,093,617	796,722	1,971,874	16,976,805
2,154,476	2,737,615	3,078,333	32,124,117
4,593,284	3,890,229	5,411,640	53,356,150
868,586	796,444	843,961	9,916,302
366,042	378,608	266,604	4,169,586
5,827,912	5,065,281	6,522,206	67,442,037

%Change from NTEM Core			
AM	IP	PM	12-hour
-4.8%	-6.8%	-4.8%	-5.8%
-17.5%	-17.6%	-17.5%	-17.5%
-12.5%	-12.5%	-12.5%	-12.5%
-14.4%	-13.1%	-13.9%	-13.7%
15.2%	15.1%	15.2%	15.2%
11.0%	11.0%	11.1%	11.1%
-9.6%	-8.1%	-10.1%	-9.1%

Purpose	%Change from Fixed Demand				%Change from Do-Min				%Change from Do-Min			
	AM	IP	PM	12-hour	AM	IP	PM	12-hour	AM	IP	PM	12-hour
Business	-0.4%	-1.1%	-0.9%	-0.9%	-0.1%	0.0%	-0.1%	0.0%	0.0%	0.0%	-0.1%	0.0%
Commute	-0.6%	-1.0%	-0.4%	-0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other	0.0%	-0.2%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Car	-0.3%	-0.5%	-0.3%	-0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LGV	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
HGV	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	-0.3%	-0.4%	-0.2%	-0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Effects of VDM on Car Demand

2041 Fixed Demand				
Purpose	AM	IP	PM	12-hour
Business	387,709	409,661	407,295	4,842,976
Commute	2,667,214	1,020,208	2,507,260	21,644,673
Other	2,636,343	3,356,139	3,769,576	39,354,593
Car	5,691,266	4,786,009	6,684,131	65,842,242
LGV	856,046	785,257	831,477	9,774,106
HGV	341,974	353,746	249,026	3,895,477
Total	6,889,286	5,925,011	7,764,633	79,511,825

NTEM Core

Do-Min			
AM	IP	PM	12-hour
385,156	404,452	402,575	4,789,903
2,650,111	1,008,969	2,494,167	21,486,649
2,634,678	3,349,695	3,758,417	39,277,457
5,669,945	4,763,116	6,655,159	65,554,008
856,046	785,257	831,477	9,774,106
341,974	353,746	249,026	3,895,477
6,867,965	5,902,119	7,735,661	79,223,592

TPTS Only

AM	IP	PM	12-hour
384,954	404,318	402,281	4,787,612
2,650,037	1,008,995	2,494,252	21,486,838
2,634,770	3,349,659	3,758,619	39,278,124
5,669,761	4,762,972	6,655,152	65,552,573
856,046	785,257	831,477	9,774,106
341,974	353,746	249,026	3,895,477
6,867,781	5,901,975	7,735,655	79,222,157

Optimised Package

AM	IP	PM	12-hour
385,136	404,256	402,270	4,787,757
2,650,139	1,008,917	2,494,446	21,487,256
2,634,819	3,349,552	3,758,792	39,278,142
5,670,093	4,762,725	6,655,508	65,553,155
856,046	785,257	831,477	9,774,106
341,974	353,746	249,026	3,895,477
6,868,113	5,901,728	7,736,010	79,222,738

Low Growth Scenario

Do-Min			
AM	IP	PM	12-hour
357,568	362,506	373,036	4,366,849
1,932,769	734,713	1,820,553	15,668,242
2,130,878	2,710,830	3,044,244	31,790,343
4,421,215	3,808,049	5,237,832	51,825,434
1,012,724	928,562	984,049	11,561,689
394,694	408,304	287,453	4,496,265
5,828,632	5,144,915	6,509,334	67,883,388

Optimised Package

AM	IP	PM	12-hour
357,361	362,427	372,668	4,364,649
1,932,667	734,773	1,820,539	15,668,257
2,130,764	2,711,092	3,044,052	31,790,997
4,420,791	3,808,292	5,237,259	51,823,904
1,012,724	928,562	984,049	11,561,689
394,694	408,304	287,453	4,496,265
5,828,209	5,145,158	6,508,761	67,881,857

Purpose	Change from Fixed Demand			
	AM	IP	PM	12-hour
Business	-2,554	-5,209	-4,720	-53,073
Commute	-17,103	-11,239	-13,093	-158,024
Other	-1,664	-6,444	-11,159	-77,136
Car	-21,321	-22,893	-28,972	-288,234
LGV	0	0	0	0
HGV	0	0	0	0
Total	-21,321	-22,893	-28,972	-288,234

Purpose	Change from Do-Min			
	AM	IP	PM	12-hour
Business	-202	-134	-294	-2,291
Commute	-74	26	85	189
Other	92	-36	202	667
Car	-184	-144	-7	-1,435
LGV	0	0	0	0
HGV	0	0	0	0
Total	-184	-144	-7	-1,435

Purpose	Change from Do-Min			
	AM	IP	PM	12-hour
Business	-20	-196	-304	-2,146
Commute	27	-52	279	607
Other	141	-143	374	686
Car	148	-391	349	-854
LGV	0	0	0	0
HGV	0	0	0	0
Total	148	-391	349	-854

%Change from NTEM Core				
AM	IP	PM	12-hour	
-7.2%	-10.4%	-7.3%	-8.8%	
-27.1%	-27.2%	-27.0%	-27.1%	
-19.1%	-19.1%	-19.0%	-19.1%	
-22.0%	-20.1%	-21.3%	-20.9%	
18.3%	18.2%	18.3%	18.3%	
15.4%	15.4%	15.4%	15.4%	
-15.1%	-12.8%	-15.9%	-14.3%	

%Change from NTEM Core				
AM	IP	PM	12-hour	
-7.2%	-10.3%	-7.4%	-8.8%	
-27.1%	-27.2%	-27.0%	-27.1%	
-19.1%	-19.1%	-19.0%	-19.1%	
-22.0%	-20.0%	-21.3%	-20.9%	
18.3%	18.2%	18.3%	18.3%	
15.4%	15.4%	15.4%	15.4%	
-15.1%	-12.8%	-15.9%	-14.3%	

Purpose	%Change from Fixed Demand			
	AM	IP	PM	12-hour
Business	-0.7%	-1.3%	-1.2%	-1.1%
Commute	-0.6%	-1.1%	-0.5%	-0.7%
Other	-0.1%	-0.2%	-0.3%	-0.2%
Car	-0.4%	-0.5%	-0.4%	-0.4%
LGV	0.0%	0.0%	0.0%	0.0%
HGV	0.0%	0.0%	0.0%	0.0%
Total	-0.3%	-0.4%	-0.4%	-0.4%

Purpose	%Change from Do-Min			
	AM	IP	PM	12-hour
Business	-0.1%	0.0%	-0.1%	0.0%
Commute	0.0%	0.0%	0.0%	0.0%
Other	0.0%	0.0%	0.0%	0.0%
Car	0.0%	0.0%	0.0%	0.0%
LGV	0.0%	0.0%	0.0%	0.0%
HGV	0.0%	0.0%	0.0%	0.0%
Total	0.0%	0.0%	0.0%	0.0%

Purpose	%Change from Do-Min			
	AM	IP	PM	12-hour
Business	0.0%	0.0%	-0.1%	0.0%
Commute	0.0%	0.0%	0.0%	0.0%
Other	0.0%	0.0%	0.0%	0.0%
Car	0.0%	0.0%	0.0%	0.0%
LGV	0.0%	0.0%	0.0%	0.0%
HGV	0.0%	0.0%	0.0%	0.0%
Total	0.0%	0.0%	0.0%	0.0%

Purpose	Highway Demand				%Change			
	AM Peak	Inter-Peak	PM Peak	12-hour	AM Peak	Inter-Peak	PM Peak	12-hour
NTEM Core								
Business	385,136		404,256	402,270	4,787,757			
Commute	2,650,139		1,008,917	2,494,446	21,487,256			
Other	2,634,819		3,349,552	3,758,792	39,278,142			
Car	5,670,093		4,762,725	6,655,508	65,553,155			
LGV	856,046		785,257	831,477	9,774,106			
HGV	341,974		353,746	249,026	3,895,477			
Total	6,868,113		5,901,728	7,736,010	79,222,738			

Low Growth Scenario and %Change from NTEM Core								
Business	357,361	362,427	372,668	4,364,649	-7%	-10%	-7%	-9%
Commute	1,932,667	734,773	1,820,539	15,668,257	-27%	-27%	-27%	-27%
Other	2,130,764	2,711,092	3,044,052	31,790,997	-19%	-19%	-19%	-19%
Car	4,420,791	3,808,292	5,237,259	51,823,904	-22%	-20%	-21%	-21%
LGV	1,012,724	928,562	984,049	11,561,689	18%	18%	18%	18%
HGV	394,694	408,304	287,453	4,496,265	15%	15%	15%	15%
Total	5,828,209	5,145,158	6,508,761	67,881,857	-15%	-13%	-16%	-14%

VDM Convergence

VDM Run	Do-Minimum		TPT Only		Optimised Package	
	2031	2041	2031	2041	2031	2041
Iteration	9	8	8	8	10	6
Full model Gap (%)	0.05%	0.08%	0.05%	0.07%	0.05%	0.09%
Sub-area Gap (%)	0.21%	0.34%	0.22%	0.31%	0.22%	0.36%

Assignment Convergence (without UDF)

Model	DM 2031			DM 2041			TPT Only 2031			TPT Only 2041			Optimised Package 2031			Optimised Package 2041		
	AM	IP	PM	AM	IP	PM	AM	IP	PM	AM	IP	PM	AM	IP	PM	AM	IP	PM

Convergence Summary

Iteration	41	62	94	64	91	120	55	64	84	37	104	89	53	57	78	53	83	95
Delta func (%)	0.0110	0.0063	0.0117	0.0131	0.0069	0.0123	0.0103	0.0059	0.0105	0.0126	0.0063	0.0144	0.0113	0.0050	0.0103	0.0143	0.0072	0.0147
%Flow	97.8	99.1	97.9	98.7	98.6	97.1	97.7	98.8	97.9	97.7	99.2	97.9	98.3	99.0	98.5	98.7	99.0	97.5
%Gap	0.0100	0.0067	0.0160	0.0079	0.0079	0.0180	0.0120	0.0160	0.0140	0.0120	0.0063	0.0240	0.0110	0.0049	0.0130	0.0094	0.0075	0.0100

%Flow over last 4 loops

Loop (n-3)	97.8	98.9	97.7	98.0	98.8	97.6	98.2	98.8	97.6	98.0	98.8	97.8	97.9	98.9	97.9	98.1	98.6	97.8
Loop (n-2)	98.0	98.9	97.6	98.4	98.9	96.9	98.6	98.6	97.6	97.7	98.8	98.1	98.3	98.9	97.8	97.6	98.6	97.9
Loop (n-1)	98.3	98.7	98.0	98.1	98.7	97.2	98.5	99.1	98.0	97.9	98.8	98.3	98.0	98.7	98.1	98.2	98.6	97.8
Loop (n)	97.8	99.1	97.9	98.7	98.6	97.1	97.7	98.8	97.9	97.7	99.2	97.9	98.3	99.0	98.5	98.7	99.0	97.5

%Gap over last 4 loops

Loop (n-3)	0.0160	0.0058	0.0130	0.0100	0.0056	0.0230	0.0120	0.0065	0.0130	0.0130	0.0056	0.0160	0.0120	0.0058	0.0150	0.0140	0.0069	0.0130
Loop (n-2)	0.0110	0.0070	0.0130	0.0087	0.0063	0.0190	0.0079	0.0049	0.0110	0.0130	0.0049	0.0130	0.0190	0.0059	0.0140	0.0120	0.0076	0.0200
Loop (n-1)	0.0180	0.0054	0.0120	0.0074	0.0071	0.0180	0.0200	0.0060	0.0130	0.0120	0.0040	0.0170	0.0180	0.0051	0.0093	0.0088	0.0044	0.0140
Loop (n)	0.0100	0.0067	0.0160	0.0079	0.0079	0.0180	0.0120	0.0160	0.0140	0.0120	0.0063	0.0240	0.0110	0.0049	0.0130	0.0094	0.0075	0.0100

Assignment Convergence (with UDF)

Model	DM 2031			DM 2041			TPT Only 2031			TPT Only 2041			Optimised Package 2031			Optimised Package 2041		
	AM	IP	PM	AM	IP	PM	AM	IP	PM	AM	IP	PM	AM	IP	PM	AM	IP	PM

Convergence Summary

Iteration	46	63	66	43	120	66	46	61	65	53	120	120	42	60	68	50	84	111
Delta func (%)	0.0109	0.0050	0.0213	0.0121	0.0096	0.0134	0.0135	0.0052	0.0108	0.0143	0.0060	0.0156	0.0084	0.0052	0.0119	0.0120	0.0076	0.0126
%Flow	98.0	98.5	97.7	98.0	97.7	97.6	98.0	99.1	98.0	98.2	98.5	97.3	97.8	98.8	97.9	97.6	98.8	98.5
%Gap	0.0120	0.0053	0.0210	0.0110	0.0200	0.0190	0.0120	0.0046	0.0110	0.0098	0.0130	0.0150	0.0088	0.0051	0.0150	0.0099	0.0087	0.0079

%Flow over last 4 loops

Loop (n-3)	97.9	98.7	97.5	97.7	98.1	97.8	98.0	99.1	98.2	98.3	97.7	96.5	98.0	99.1	98.1	98.0	98.9	97.6
Loop (n-2)	97.8	98.6	97.8	98.3	97.8	97.8	97.7	99.2	97.5	98.0	97.5	96.6	97.8	98.5	98.1	97.6	98.6	98.2
Loop (n-1)	98.1	98.9	97.9	98.0	98.0	98.0	98.1	98.6	97.7	98.5	98.4	97.5	98.5	99.0	97.7	98.3	99.1	97.9
Loop (n)	98.0	98.5	97.7	98.0	97.7	97.6	98.0	99.1	98.0	98.2	98.5	97.3	97.8	98.8	97.9	97.6	98.8	98.5

%Gap over last 4 loops

Loop (n-3)	0.0180	0.0065	0.0200	0.0110	0.0120	0.0170	0.0200	0.0048	0.0170	0.0120	0.0160	0.0160	0.0150	0.0085	0.0120	0.0130	0.0071	0.0098
Loop (n-2)	0.0110	0.0052	0.0150	0.0130	0.0097	0.0140	0.0120	0.0066	0.0160	0.0110	0.0099	0.0170	0.0088	0.0053	0.0160	0.0100	0.0053	0.0100
Loop (n-1)	0.0160	0.0092	0.0170	0.0150	0.0110	0.0210	0.0140	0.0050	0.0130	0.0130	0.0082	0.0280	0.0180	0.0066	0.0150	0.0270	0.0067	0.0098
Loop (n)	0.0120	0.0053	0.0210	0.0110	0.0200	0.0190	0.0120	0.0046	0.0110	0.0098	0.0130	0.0150	0.0088	0.0051	0.0150	0.0099	0.0087	0.0079

Note:

VDM run for the Optimised Package 2041 used the best convergence gap assignments. TUBA appraisal was carried out comparing the best convergence gap results vs. non convergence gap (loop 10) and shows 4% difference in TUBA benefits, therefore deemed acceptable given the current stage of the modelling

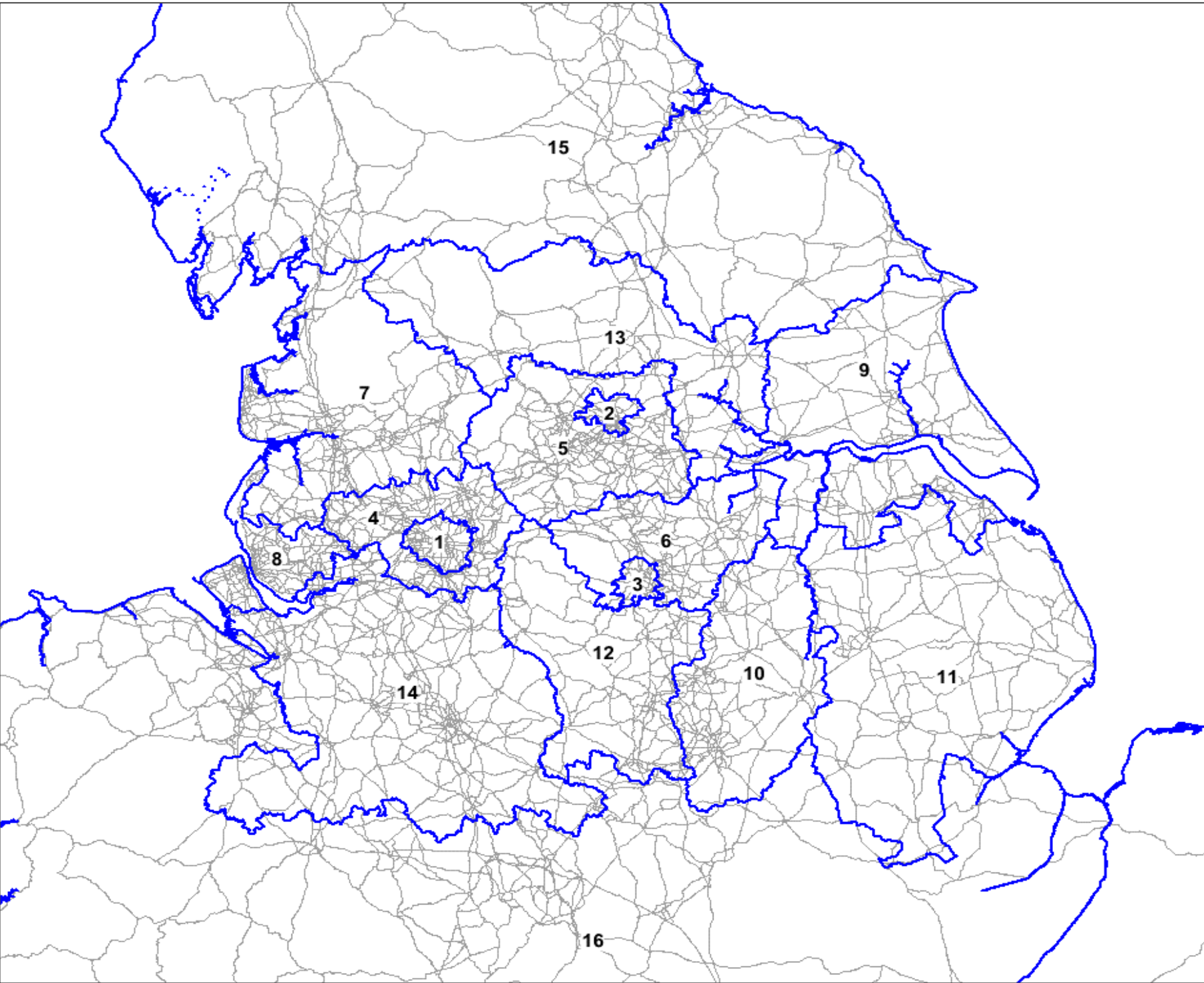
DM 2041 PM peak highway assignments without UDF did not converge. However the %gap did meet the %gap criterion (0.05%), and %flow is very close to the %flow criterion (97.5%) therefore deemed acceptable given the current stage of the modelling

DM 2041 Inter-peak highway assignments with UDF did not converge. However the %gap did meet the %gap criterion (0.05%), and %flow is very close to the %flow criterion (97.5%) therefore deemed acceptable given the current stage of the modelling

TPT Only 2041 Inter-Peak and PM peak highway assignments with UDF did not converge. However the %gap did meet the %gap criterion (0.05%), and %flow is very close to the %flow criterion (97.5%) therefore deemed acceptable given the current stage of the modelling

Impacts of Non-Convergence VDM to Benefits			
Package	Best Loop	Loop 10	%Difference
Consumer User (Com	531,941	516,695	-3%
Consumer User (Othe	619,692	506,112	-18%
Business User and Pr	3,014,825	2,973,863	-1%
Private sector provide	-4,395	-3,449	-22%
Indirect Tax Revenue	381,819	392,567	3%
Greenhouse Gas	-227,459	-237,171	4%
Total	4,316,423	4,148,617	-4%

Total Benefits without UDF (£m at 2010 prices and values)																		
Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Orig	
Manchester urban area	1	-33.91	15.55	22.13	18.01	41.55	52.71	-6.28	-12.53	65.30	24.06	10.52	24.43	11.75	-0.29	10.62	76.55	320.16
Leeds urban area	2	7.95	-0.85	-1.87	16.00	21.39	-1.19	4.50	10.50	11.16	-0.15	0.74	-0.41	2.29	8.32	0.54	-5.46	73.46
Sheffield urban area	3	9.21	-0.55	1.86	24.32	7.43	42.30	9.62	11.17	5.79	8.75	2.40	5.50	0.70	9.82	-0.04	5.45	143.72
Manchester (outside M60 ring road)	4	27.28	34.24	33.48	390.41	99.64	131.43	-7.30	6.72	162.98	39.62	30.74	65.38	42.04	52.36	32.08	104.46	1245.55
West Yorkshire (outside Leeds)	5	17.23	17.12	2.20	47.23	156.75	42.89	12.66	17.20	39.72	10.81	9.98	6.12	15.54	27.62	1.41	43.94	468.43
South Yorkshire (outside Sheffield)	6	21.62	-3.19	32.11	81.34	36.88	127.64	44.20	32.48	-9.83	12.36	0.79	10.61	-2.57	48.02	-1.73	5.48	436.21
Lancashire	7	-28.63	7.07	16.34	-41.38	31.88	93.99	-2.08	-0.20	19.50	21.08	12.04	6.60	4.45	-0.24	0.27	46.61	187.30
Merseyside	8	-29.47	23.53	12.81	-14.47	53.18	50.41	0.39	5.39	49.33	10.89	6.87	1.30	13.67	-12.26	3.44	3.50	178.51
Humberside	9	41.53	9.12	4.80	117.27	43.98	-8.39	14.99	35.46	104.09	-8.12	-0.30	-0.31	4.07	53.44	-2.31	-19.36	389.97
Nottinghamshire	10	15.81	-0.73	9.51	26.85	11.55	13.70	10.98	4.02	-8.26	5.36	-3.97	1.71	-0.91	5.92	-0.04	0.68	92.17
Lincolnshire	11	2.95	0.75	3.67	18.98	10.12	4.05	5.03	5.04	1.71	-1.63	-4.27	1.55	-0.30	4.81	-0.62	1.66	53.49
Derbyshire	12	43.43	0.82	6.06	205.86	14.49	31.85	14.98	7.70	4.79	6.92	4.23	30.31	2.45	8.92	5.81	5.16	393.78
North Yorkshire	13	8.16	0.07	-0.82	32.14	16.43	-2.16	4.74	9.84	0.84	-1.63	-0.53	-0.71	2.96	10.44	0.25	-7.56	72.44
Cheshire, Shropshire, etc	14	-8.33	20.62	10.85	8.81	65.96	61.63	17.79	3.64	84.33	8.50	6.64	5.65	23.61	50.15	14.08	13.76	387.69
North	15	6.04	-0.61	-1.27	25.80	3.57	-2.80	1.07	2.20	1.17	-3.28	-1.51	-1.23	-0.79	5.11	-22.45	-11.20	-0.20
South	16	42.54	-6.15	4.08	125.52	48.58	4.68	62.02	11.66	-8.32	2.82	1.55	1.74	-0.21	14.43	13.04	-1.76	316.20
Dest		143.40	116.81	155.92	1082.70	663.38	642.73	187.30	150.30	524.31	136.37	75.92	158.21	118.74	286.55	54.36	261.89	4758.89
Total Benefits with UDF (£m at 2010 prices and values)																		
Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Orig	
Manchester urban area	1	-94.21	16.59	22.83	0.07	45.24	54.34	-12.60	-9.77	67.90	24.93	10.81	23.01	12.39	4.81	10.61	77.24	254.19
Leeds urban area	2	9.84	6.03	-1.77	18.63	40.66	-0.35	6.00	12.90	10.74	-0.15	0.70	-0.57	2.89	9.75	0.23	-5.89	109.64
Sheffield urban area	3	9.79	-0.46	14.02	27.94	6.74	54.56	10.15	12.27	6.94	9.24	2.53	6.56	0.66	10.80	-0.17	5.29	176.86
Manchester (outside M60 ring road)	4	35.00	37.89	38.34	424.62	108.97	136.28	-10.47	10.26	169.57	43.15	32.26	65.80	44.87	65.00	32.79	103.80	1338.14
West Yorkshire (outside Leeds)	5	19.96	47.59	2.72	51.43	330.41	54.14	15.02	20.43	44.72	12.55	10.46	6.19	18.56	30.91	2.53	50.35	717.96
South Yorkshire (outside Sheffield)	6	22.16	-3.22	41.41	84.06	36.21	161.62	45.25	33.48	-7.09	12.70	0.98	12.16	-2.74	49.64	-2.01	6.41	491.02
Lancashire	7	-27.54	8.43	16.80	-43.44	36.74	97.25	8.32	1.31	21.50	21.95	12.47	6.30	5.46	3.34	0.48	47.92	217.30
Merseyside	8	-33.53	25.14	13.45	-17.26	58.06	51.94	10.48	9.85	51.01	11.35	6.94	2.31	14.40	-11.06	3.65	4.17	200.90
Humberside	9	43.45	8.92	4.34	119.86	43.95	-9.94	15.80	36.83	133.96	-8.44	-0.37	-0.34	3.52	54.72	-2.38	-19.67	424.22
Nottinghamshire	10	16.60	-0.98	9.61	31.31	11.71	13.16	11.01	4.34	-7.93	6.28	-3.65	2.92	-0.87	6.91	-0.09	0.80	101.12
Lincolnshire	11	2.99	0.81	3.67	20.01	10.04	3.75	5.11	5.00	3.64	-1.51	-4.24	1.68	-0.22	4.83	-0.51	1.72	56.74
Derbyshire	12	43.76	0.73	11.59	218.07	13.83	36.46	14.88	8.91	5.05	6.16	4.40	30.75	2.27	11.43	5.26	5.95	419.52
North Yorkshire	13	9.13	1.15	-0.55	33.28	18.14	-1.32	5.93	10.83	2.24	-1.44	-0.32	-0.60	3.51	11.53	0.18	-6.78	84.89
Cheshire, Shropshire, etc	14	-13.39	21.74	11.47	0.06	68.64	63.60	17.62	5.09	85.35	9.04	6.63	5.94	24.05	17.67	13.95	7.63	345.09
North	15	7.34	-0.17	-0.88	27.07	3.77	-1.92	1.99	2.57	-2.89	-2.30	-1.13	-0.62	-0.08	6.21	-40.27	-7.18	-8.49
South	16	43.54	-7.66	4.18	124.14	49.09	5.82	63.50	12.27	-7.39	2.85	1.81	1.87	-0.69	16.07	12.61	-4.57	317.45
Dest		94.90	162.53	191.22	1119.84	882.19	719.38	207.99	176.56	577.31	146.36	80.29	163.36	127.98	292.55	36.87	267.20	5246.53
Difference																		
Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Orig	
Manchester urban area	1	-60.30	1.04	0.70	-17.94	3.69	1.63	-6.32	2.75	2.60	0.87	0.29	-1.42	0.65	5.10	-0.01	0.69	-65.97
Leeds urban area	2	1.89	6.88	0.10	2.63	19.27	0.84	1.50	2.40	-0.42	0.00	-0.04	-0.16	0.60	1.43	-0.31	-0.42	36.18
Sheffield urban area	3	0.58	0.10	12.16	3.62	-0.68	12.26	0.54	1.10	1.15	0.49	0.13	1.06	-0.04	0.98	-0.14	-0.16	33.14
Manchester (outside M60 ring road)	4	7.72	3.65	4.86	34.21	9.33	4.86	-3.17	3.54	6.60	3.53	1.52	0.43	2.83	12.64	0.71	-0.66	92.58
West Yorkshire (outside Leeds)	5	2.73	30.46	0.52	4.20	173.67	11.25	2.36	3.23	4.99	1.74	0.48	0.06	3.02	3.28	1.12	6.41	249.52
South Yorkshire (outside Sheffield)	6	0.54	-0.03	9.30	2.72	-0.67	33.98	1.05	1.00	2.74	0.34	0.19	1.56	-0.18	1.62	-0.28	0.93	54.80
Lancashire	7	1.09	1.36	0.46	-2.06	4.86	3.25	10.40	1.51	2.00	0.87	0.43	-0.30	1.01	3.58	0.21	1.31	30.00
Merseyside	8	-4.06	1.61	0.65	-2.79	4.88	1.52	10.09	4.45	1.68	0.46	0.08	1.01	0.73	1.20	0.21	0.67	22.39
Humberside	9	1.92	-0.19	-0.46	2.59	-0.04	-1.55	0.81	1.36	29.87	-0.32	-0.06	-0.03	-0.55	1.28	-0.07	-0.31	34.25
Nottinghamshire	10	0.79	-0.25	0.10	4.46	0.15	-0.54	0.03	0.32	0.33	0.92	0.32	1.22	0.04	1.00	-0.04	0.12	8.96
Lincolnshire	11	0.04	0.06	-0.01	1.03	-0.08	-0.30	0.09	-0.05	1.93	0.12	0.03	0.13	0.08	0.02	0.11	0.06	3.25
Derbyshire	12	0.34	-0.09	5.54	12.21	-0.66	4.61	-0.10	1.22	0.26	-0.77	0.17	0.43	-0.17	2.51	-0.55	0.79	25.74
North Yorkshire	13	0.98	1.08	0.27	1.14	1.71	0.84	1.18	0.99	1.40	0.20	0.20	0.11	0.55	1.09	-0.08	0.78	12.45
Cheshire, Shropshire, etc	14	-5.07	1.12	0.62	-8.75	2.68	1.97	-0.16	1.45	1.01	0.54	-0.01	0.29	0.43	-32.48	-0.12	-6.12	-42.60
North	15	1.30	0.45	0.40	1.27	0.19	0.88	0.92	0.37	-4.06	0.98	0.39	0.61	0.71	1.11	-17.82	4.03	-8.29



The map shows the geographical distribution of the 16 sectors defined in the tables. Sectors 1 through 16 are numbered across the region of Yorkshire and surrounding areas. Sectors 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 16 are clearly marked on the map, corresponding to the urban areas and surrounding regions listed in the tables.

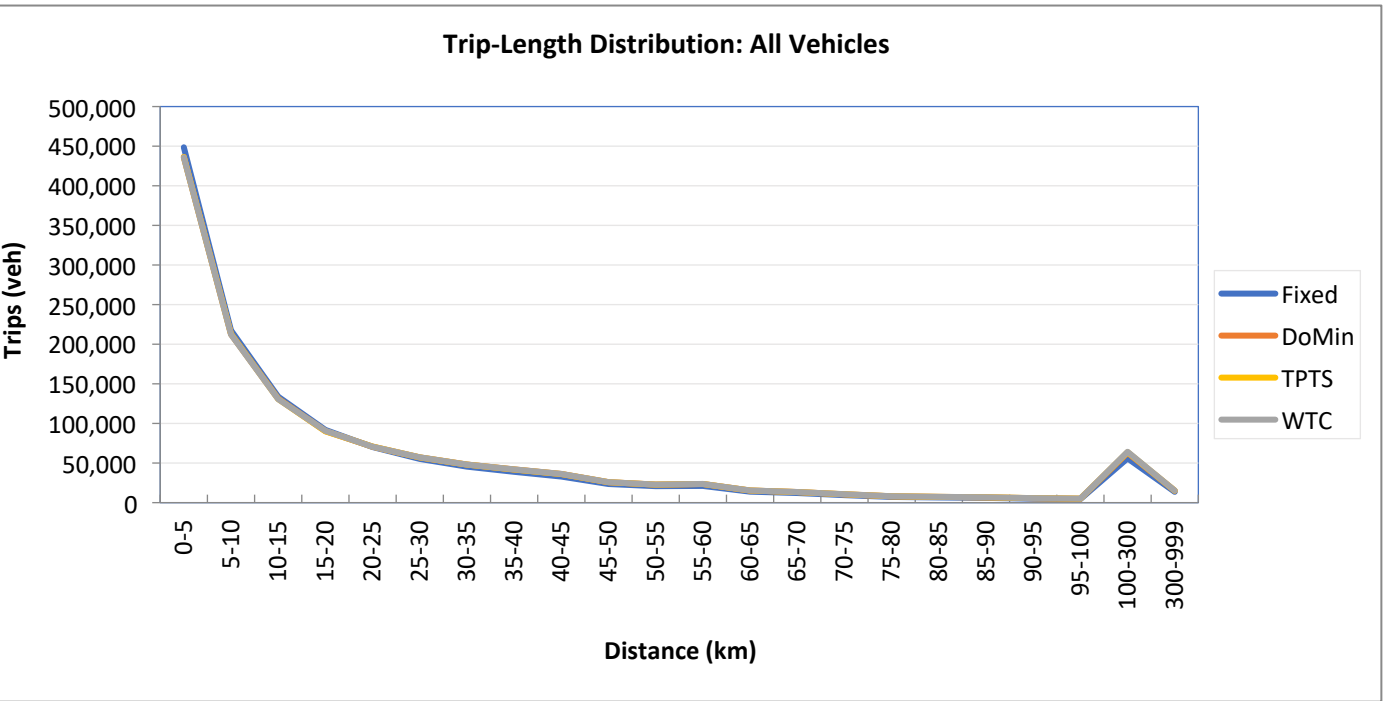
South	16	1.01	-1.51	0.10	-1.37	0.52	1.14	1.49	0.61	0.93	0.03	0.26	0.13	-0.48	1.65	-0.43	-2.81	1.25
	Dest	-48.50	45.72	35.30	37.15	218.81	76.65	20.69	26.26	53.00	9.99	4.37	5.15	9.24	6.00	-17.49	5.31	487.64
%Difference																		
	Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Orig
Manchester urban area	1	178%	7%	3%	-100%	9%	3%	101%	-22%	4%	4%	3%	-6%	6%	-1786%	0%	1%	-21%
Leeds urban area	2	24%	-807%	-5%	16%	90%	-70%	33%	23%	-4%	1%	-5%	39%	26%	17%	-57%	8%	49%
Sheffield urban area	3	6%	-17%	655%	15%	-9%	29%	6%	10%	20%	6%	5%	19%	-6%	10%	374%	-3%	23%
Manchester (outside M60 ring road)	4	28%	11%	15%	9%	9%	4%	43%	53%	4%	9%	5%	1%	7%	24%	2%	-1%	7%
West Yorkshire (outside Leeds)	5	16%	178%	24%	9%	111%	26%	19%	19%	13%	16%	5%	1%	19%	12%	80%	15%	53%
South Yorkshire (outside Sheffield)	6	3%	1%	29%	3%	-2%	27%	2%	3%	-28%	3%	24%	15%	7%	3%	16%	17%	13%
Lancashire	7	-4%	19%	3%	5%	15%	3%	-501%	-741%	10%	4%	4%	-4%	23%	-1485%	78%	3%	16%
Merseyside	8	14%	7%	5%	19%	9%	3%	2561%	83%	3%	4%	1%	78%	5%	-10%	6%	19%	13%
Humberside	9	5%	-2%	-10%	2%	0%	18%	5%	4%	29%	4%	21%	9%	-13%	2%	3%	2%	9%
Nottinghamshire	10	5%	35%	1%	17%	1%	-4%	0%	8%	-4%	17%	-8%	71%	-4%	17%	101%	18%	10%
Lincolnshire	11	1%	8%	0%	5%	-1%	-7%	2%	-1%	113%	-7%	-1%	8%	-27%	0%	-18%	3%	6%
Derbyshire	12	1%	-11%	91%	6%	-5%	14%	-1%	16%	5%	-11%	4%	1%	-7%	28%	-9%	15%	7%
North Yorkshire	13	12%	1665%	-33%	4%	10%	-39%	25%	10%	166%	-12%	-39%	-15%	19%	10%	-30%	-10%	17%
Cheshire, Shropshire, etc	14	61%	5%	6%	-99%	4%	3%	-1%	40%	1%	6%	0%	5%	2%	-65%	-1%	-45%	-11%
North	15	22%	-73%	-31%	5%	5%	-31%	86%	17%	-347%	-30%	-25%	-50%	-90%	22%	79%	-36%	4096%
South	16	2%	25%	2%	-1%	1%	24%	2%	5%	-11%	1%	17%	8%	231%	11%	-3%	159%	0%
	Dest	-34%	39%	23%	3%	33%	12%	11%	17%	10%	7%	6%	3%	8%	2%	-32%	2%	10%

TRIP-LENGTH DISTRIBUTION

All Vehicles

Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	516,774	448,578	217,527	133,785	91,857	70,226	55,187	45,447	38,912	32,939	23,524	20,815	21,110	13,866	12,152	9,474	7,218	6,542	6,029	4,957	4,470	55,894	13,637	
Do-Minimum Trips	497,965	436,431	212,749	131,284	90,269	70,652	57,124	48,134	41,973	36,197	25,833	22,796	23,550	15,326	13,418	10,491	8,016	7,279	6,689	5,615	4,960	63,006	15,064	
TPTS Only Ttips	497,296	436,463	213,018	130,779	90,052	70,841	57,141	48,040	41,762	36,093	25,843	22,773	23,584	15,339	13,373	10,622	8,053	7,299	6,761	5,702	5,050	63,719	15,100	
Optimised Package Trips	497,147	435,883	212,262	130,672	90,676	70,619	57,253	48,082	41,988	36,289	25,880	22,821	23,612	15,393	13,420	10,667	8,117	7,322	6,800	5,697	5,092	64,204	15,201	
Fixed Demand Veh.kms	0	956,922	1,592,953	1,648,807	1,599,008	1,571,666	1,513,122	1,482,548	1,455,970	1,387,243	1,117,232	1,091,225	1,209,170	867,927	816,270	685,962	559,240	538,897	527,478	459,448	435,060	9,131,650	5,639,977	
Do-Minimum Veh.kms	0	928,394	1,555,739	1,618,591	1,571,159	1,580,624	1,566,110	1,571,020	1,570,906	1,524,261	1,227,013	1,194,805	1,349,138	959,164	901,335	759,544	621,054	599,657	585,194	520,680	482,841	10,288,417	6,189,145	
TPTS Only Veh.kms	0	927,991	1,558,747	1,613,038	1,567,208	1,584,590	1,566,439	1,567,733	1,562,804	1,519,713	1,227,506	1,193,706	1,351,164	960,025	898,220	768,945	624,018	601,342	591,422	528,666	491,708	10,389,228	6,205,661	
Optimised Package Veh.kms	0	927,271	1,553,125	1,611,094	1,578,462	1,580,317	1,569,433	1,569,015	1,571,039	1,528,111	1,229,158	1,196,165	1,352,727	963,321	901,337	772,106	628,972	603,252	594,811	528,237	495,779	10,444,753	6,241,465	

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	516,774	497,965	497,296	497,147	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	448,578	436,431	436,463	435,883	956,922	928,394	927,991	927,271	2.1	2.1	2.1	2.1
3	5	10	217,527	212,749	213,018	212,262	1,592,953	1,555,739	1,558,747	1,553,125	7.3	7.3	7.3	7.3
4	10	15	133,785	131,284	130,779	130,672	1,648,807	1,618,591	1,613,038	1,611,094	12.3	12.3	12.3	12.3
5	15	20	91,857	90,269	90,052	90,676	1,599,008	1,571,159	1,567,208	1,578,462	17.4	17.4	17.4	17.4
6	20	25	70,226	70,652	70,841	70,619	1,571,666	1,580,624	1,584,590	1,580,317	22.4	22.4	22.4	22.4
7	25	30	55,187	57,124	57,141	57,253	1,513,122	1,566,110	1,566,439	1,569,433	27.4	27.4	27.4	27.4
8	30	35	45,447	48,134	48,040	48,082	1,482,548	1,571,020	1,567,733	1,569,015	32.6	32.6	32.6	32.6
9	35	40	38,912	41,973	41,762	41,988	1,455,970	1,570,906	1,562,804	1,571,039	37.4	37.4	37.4	37.4
10	40	45	32,939	36,197	36,093	36,289	1,387,243	1,524,261	1,519,713	1,528,111	42.1	42.1	42.1	42.1
11	45	50	23,524	25,833	25,843	25,880	1,117,232	1,227,013	1,227,506	1,229,158	47.5	47.5	47.5	47.5
12	50	55	20,815	22,796	22,773	22,821	1,091,225	1,194,805	1,193,706	1,196,165	52.4	52.4	52.4	52.4
13	55	60	21,110	23,550	23,584	23,612	1,209,170	1,349,138	1,351,164	1,352,727	57.3	57.3	57.3	57.3
14	60	65	13,866	15,326	15,339	15,393	867,927	959,164	960,025	963,321	62.6	62.6	62.6	62.6
15	65	70	12,152	13,418	13,373	13,420	816,270	901,335	898,220	901,337	67.2	67.2	67.2	67.2
16	70	75	9,474	10,491	10,622	10,667	685,962	759,544	768,945	772,106	72.4	72.4	72.4	72.4
17	75	80	7,218	8,016	8,053	8,117	559,240	621,054	624,018	628,972	77.5	77.5	77.5	77.5
18	80	85	6,542	7,279	7,299	7,322	538,897	599,657	601,342	603,252	82.4	82.4	82.4	82.4
19	85	90	6,029	6,689	6,761	6,800	527,478	585,194	591,422	594,811	87.5	87.5	87.5	87.5
20	90	95	4,957	5,615	5,702	5,697	459,448	520,680	528,666	528,237	92.7	92.7	92.7	92.7
21	95	100	4,470	4,960	5,050	5,092	435,060	482,841	491,708	495,779	97.3	97.4	97.4	97.4
22	100	300	55,894	63,006	63,719	64,204	9,131,650	10,288,417	10,389,228	10,444,753	163.4	163.3	163.0	162.7
23	300	999	13,637	15,064	15,100	15,201	5,639,977	6,189,145	6,205,661	6,241,465	413.6	410.9	411.0	410.6
Total			1,334,146	1,346,856	1,347,407	1,347,948	36,287,774	39,164,790	39,299,873	39,439,950	27.2	29.1	29.2	29.3



Mean TLD

TLD	Fixed	DoMin	TPTS	WTC
Mean (1)	27.2	29.1	29.2	29.3
Mean (2)	19.6	21.2	21.3	21.4

without IZ trips

with IZ trips

Business

Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	27,627	32,022	28,826	20,851	14,775	9,146	6,418	5,574	5,172	4,469	3,805	3,877	3,633	3,410	3,031	2,246	1,805	1,455	1,312	1,305	1,240	14,908	2,998	
Do-Minimum Trips	24,116	28,193	25,751	18,828	13,440	8,499	6,306	6,240	6,215	5,530	4,639	4,644	4,591	4,114	3,617	2,680	2,178	1,771	1,573	1,620	1,430	18,400	3,802	
TPTS Only Ttips	23,965	28,038	25,589	18,655	13,280	8,568	6,257	6,165	6,169	5,485	4,626	4,615	4,616	4,115	3,549	2,777	2,175	1,796	1,612	1,684	1,486	18,972	3,812	
Optimised Package Trips	23,898	27,873	25,375	18,604	13,411	8,490	6,283	6,161	6,229	5,513	4,624	4,645	4,600	4,159	3,575	2,778	2,216	1,807	1,642	1,660	1,526	19,292	3,863	
Fixed Demand Veh.kms	0	77,109	210,175	258,951	256,753	204,027	175,912	181,116	193,820	189,349	180,741	203,635	208,777	213,106	204,065	162,653	139,813	119,843	114,804	120,818	120,855	2,430,990	1,151,756	
Do-Minimum Veh.kms	0	68,022	187,952	234,070	233,535	189,624	172,939	203,097	233,095	234,295	220,261	243,729	263,655	257,112	243,451	194,070	168,732	145,921	137,571	150,108	139,473	3,015,333	1,452,456	
TPTS Only Veh.kms	0	67,661	186,768	231,818	230,484	191,038	171,557	200,566	231,399	232,378	219,676	242,295	265,036	257,160	238,777	201,007	168,496	147,930	140,959	156,022	144,993	3,091,712	1,457,854	
Optimised Package Veh.kms	0	67,288	185,100	230,970	232,994	189,517	172,336	200,421	233,573	233,595	219,578	243,873	264,135	259,897	240,567	201,108	171,721	148,817	143,569	153,708	148,893	3,132,364	1,476,491	

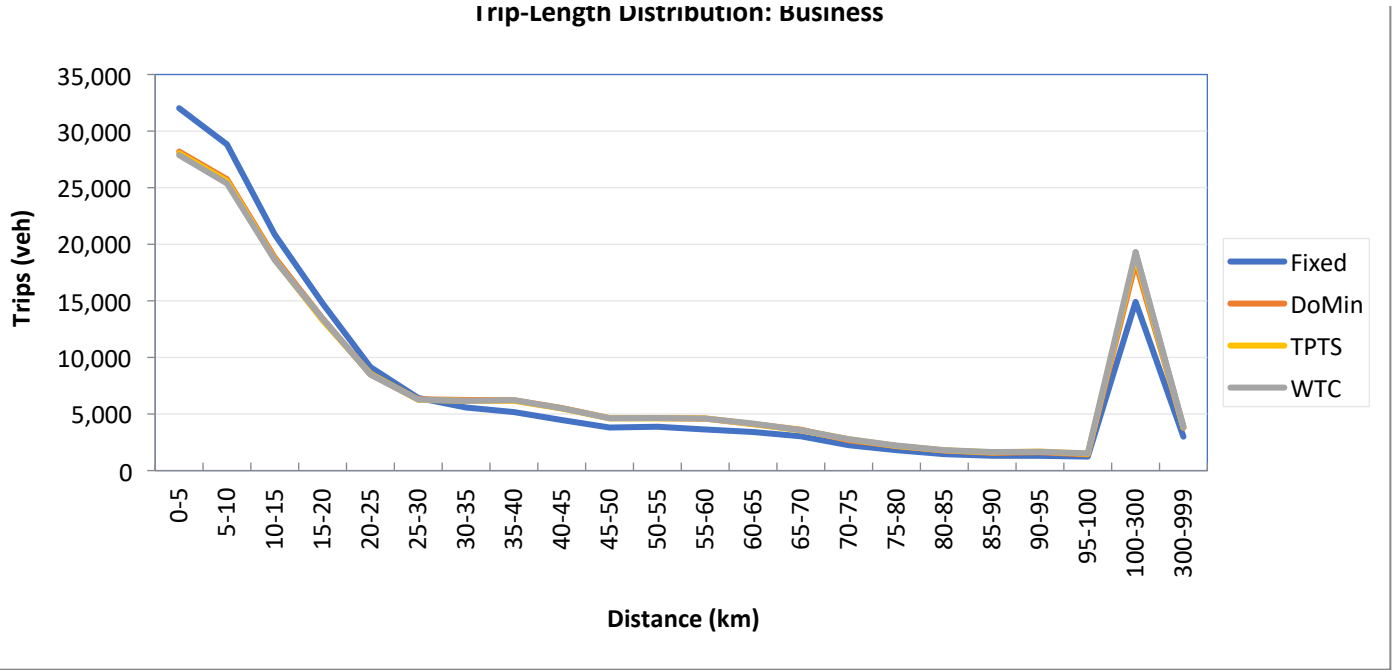
Band	Distance (km)	Trips (veh)	Trip.kms	Average Length (km)	Trip Length Distribution: Business
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Band	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	27,627	24,116	23,965	23,898	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	32,022	28,193	28,038	27,873	77,109	68,022	67,661	67,288	2.4	2.4	2.4	2.4
3	5	10	28,826	25,751	25,589	25,375	210,175	187,952	186,768	185,100	7.3	7.3	7.3	7.3
4	10	15	20,851	18,828	18,655	18,604	258,951	234,070	231,818	230,970	12.4	12.4	12.4	12.4
5	15	20	14,775	13,440	13,280	13,411	256,753	233,535	230,484	232,994	17.4	17.4	17.4	17.4
6	20	25	9,146	8,499	8,568	8,490	204,027	189,624	191,038	189,517	22.3	22.3	22.3	22.3
7	25	30	6,418	6,306	6,257	6,283	175,912	172,939	171,557	172,336	27.4	27.4	27.4	27.4
8	30	35	5,574	6,240	6,165	6,161	181,116	203,097	200,566	200,421	32.5	32.5	32.5	32.5
9	35	40	5,172	6,215	6,169	6,229	193,820	233,095	231,399	233,573	37.5	37.5	37.5	37.5
10	40	45	4,469	5,530	5,485	5,513	189,349	234,295	232,378	233,595	42.4	42.4	42.4	42.4
11	45	50	3,805	4,639	4,626	4,624	180,741	220,261	219,676	219,578	47.5	47.5	47.5	47.5
12	50	55	3,877	4,644	4,615	4,645	203,635	243,729	242,295	243,873	52.5	52.5	52.5	52.5
13	55	60	3,633	4,591	4,616	4,600	208,777	263,655	265,036	264,135	57.5	57.4	57.4	57.4
14	60	65	3,410	4,114	4,115	4,159	213,106	257,112	257,160	259,897	62.5	62.5	62.5	62.5
15	65	70	3,031	3,617	3,549	3,575	204,065	243,451	238,777	240,567	67.3	67.3	67.3	67.3
16	70	75	2,246	2,680	2,777	2,778	162,653	194,070	201,007	201,108	72.4	72.4	72.4	72.4
17	75	80	1,805	2,178	2,175	2,216	139,813	168,732	168,496	171,721	77.4	77.5	77.5	77.5
18	80	85	1,455	1,771	1,796	1,807	119,843	145,921	147,930	148,817	82.4	82.4	82.4	82.4
19	85	90	1,312	1,573	1,612	1,642	114,804	137,571	140,959	143,569	87.5	87.5	87.5	87.5
20	90	95	1,305	1,620	1,684	1,660	120,818	150,108	156,022	153,708	92.6	92.7	92.6	92.6
21	95	100	1,240	1,430	1,486	1,526	120,855	139,473	144,993	148,893	97.5	97.5	97.6	97.5
22	100	300	14,908	18,400	18,972	19,292	2,430,990	3,015,333	3,091,712	3,132,364	163.1	163.9	163.0	162.4
23	300	999	2,998	3,802	3,812	3,863	1,151,756	1,452,456	1,457,854	1,476,491	384.1	382.0	382.4	382.2
Total			172,280	174,062	174,042	174,324	7,119,067	8,388,501	8,475,590	8,550,514	41.3	48.2	48.7	49.0

Commute

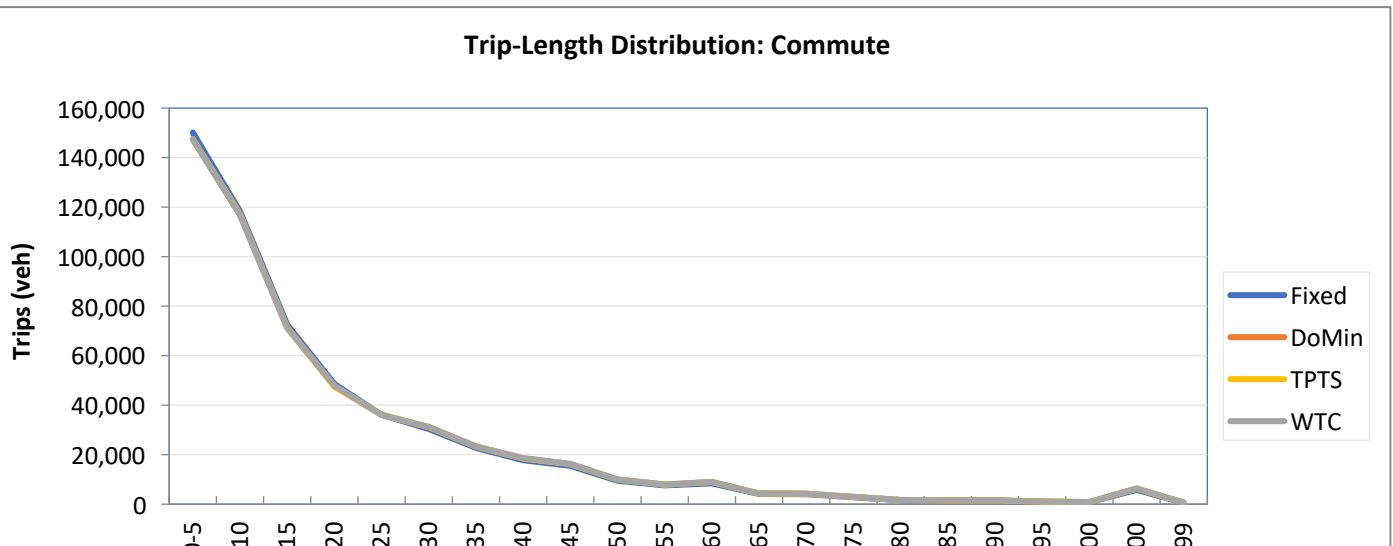
Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	126,648	150,154	118,322	72,537	48,581	36,110	30,359	22,729	17,759	15,490	9,472	7,595	8,400	4,120	4,034	2,791	1,605	1,378	1,460	947	808	5,769	593	
Do-Minimum Trips	124,698	147,476	116,864	71,517	47,583	36,101	31,064	23,324	18,567	16,251	9,954	7,916	8,964	4,309	4,248	2,943	1,717	1,499	1,566	1,047	875	6,283	630	
TPTS Only Tips	124,624	147,503	117,225	71,216	47,496	36,207	31,167	23,285	18,409	16,195	9,960	7,921	8,966	4,297	4,241	2,959	1,712	1,504	1,571	1,035	885	6,317	637	
Optimised Package Trips	124,469	147,348	116,812	71,184	47,948	36,064	31,227	23,323	18,571	16,293	9,991	7,931	8,992	4,323	4,240	2,986	1,729	1,501	1,577	1,046	882	6,353	643	
Fixed Demand Veh.kms	0	370,975	869,546	894,551	845,811	808,977	831,308	741,317	662,940	649,894	449,336	398,073	479,530	257,798	270,342	201,820	124,253	113,340	128,162	88,041	78,504	819,005	236,248	
Do-Minimum Veh.kms	0	362,737	856,334	882,268	828,127	808,091	850,054	761,078	693,363	681,687	472,459	414,833	511,992	269,545	284,724	212,767	132,849	123,285	137,501	97,280	84,965	890,387	250,981	
TPTS Only Veh.kms	0	362,724	859,949	879,347	826,646	810,244	852,733	759,608	687,460	679,149	472,777	415,094	512,161	268,799	284,203	213,902	132,486	123,713	137,923	96,140	85,943	896,350	253,798	
Optimised Package Veh.kms	0	362,262	856,664	878,585	834,622	807,535	854,290	760,844	693,322	683,288	474,149	415,604	513,603	270,352	284,086	215,868	133,813	123,466	138,441	97,246	85,662	900,895	256,037	

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	126,648	124,698	124,624	124,469	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	150,154	147,476	147,503	147,348	370,975	362,737	362,724	362,262	2.5	2.5	2.5	2.5
3	5	10	118,322	116,864	117,225	116,812	869,546	856,334	859,949	856,664	7.3	7.3	7.3	7.3
4	10	15	72,537	71,517	71,216	71,184	894,551	882,268	879,347	878,585	12.3	12.3	12.3	12.3
5	15	20	48,581	47,583	47,496	47,948	845,811	828,127	826,646	834,622	17.4	17.4	17.4	17.4
6	20	25	36,110	36,101	36,207	36,064	808,977	808,091	810,244	807,535	22.4	22.4	22.4	22.4
7	25	30	30,359	31,064	31,167	31,227	831,308	850,054	852,733	854,290	27.4	27.4	27.4	27.4
8	30	35	22,729	23,324	23,285	23,323	741,317	761,078	759,608	760,844	32.6	32.6	32.6	32.6
9	35	40	17,759	18,567	18,409	18,571	662,940	693,363	687,460	693,322	37.3	37.3	37.3	37.3
10	40	45	15,490	16,251	16,195	16,293	649,894	681,687	679,149	683,288	42.0	41.9	41.9	41.9
11	45	50	9,472	9,954	9,960	9,991	449,336	472,459	472,777	474,149	47.4	47.5	47.5	47.5
12	50	55	7,595	7,916	7,921	7,931	398,073	414,833	415,094	415,604	52.4	52.4	52.4	52.4

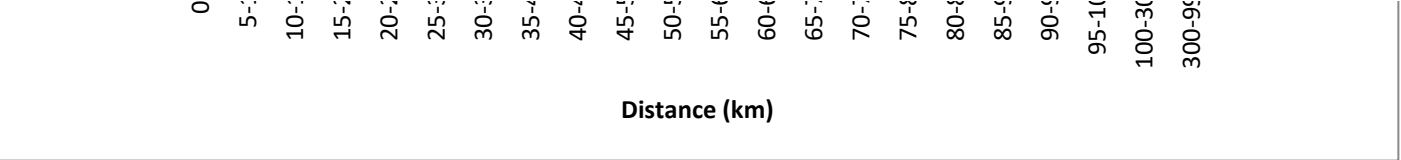


Mean TLD

TLD	Fixed	DoMin	TPTS	WTC	
Mean (1)	41.3	48.2	48.7	49.0	without IZ trips
Mean (2)	35.6	42.3	42.8	43.1	with IZ trips



13	55	60	8,400	8,964	8,966	8,992	479,530	511,992	512,161	513,603	57.1	57.1	57.1	57.1
14	60	65	4,120	4,309	4,297	4,323	257,798	269,545	268,799	270,352	62.6	62.6	62.5	62.5
15	65	70	4,034	4,248	4,241	4,240	270,342	284,724	284,203	284,086	67.0	67.0	67.0	67.0
16	70	75	2,791	2,943	2,959	2,986	201,820	212,767	213,902	215,868	72.3	72.3	72.3	72.3
17	75	80	1,605	1,717	1,712	1,729	124,253	132,849	132,486	133,813	77.4	77.4	77.4	77.4
18	80	85	1,378	1,499	1,504	1,501	113,340	123,285	123,713	123,466	82.3	82.2	82.3	82.3
19	85	90	1,460	1,566	1,571	1,577	128,162	137,501	137,923	138,441	87.8	87.8	87.8	87.8
20	90	95	947	1,047	1,035	1,046	88,041	97,280	96,140	97,246	92.9	92.9	92.9	92.9
21	95	100	808	875	885	882	78,504	84,965	85,943	85,662	97.1	97.1	97.1	97.1
22	100	300	5,769	6,283	6,317	6,353	819,005	890,387	896,350	900,895	142.0	141.7	141.9	141.8
23	300	999	593	630	637	643	236,248	250,981	253,798	256,037	398.7	398.7	398.6	398.4
Total			561,012	560,699	560,706	560,963	10,319,770	10,607,309	10,611,149	10,640,634	18.4	18.9	18.9	19.0



Mean TLD

TLD	Fixed	DoMin	TPTS	WTC
Mean (1)	18.4	18.9	18.9	19.0
Mean (2)	15.0	15.5	15.5	15.5

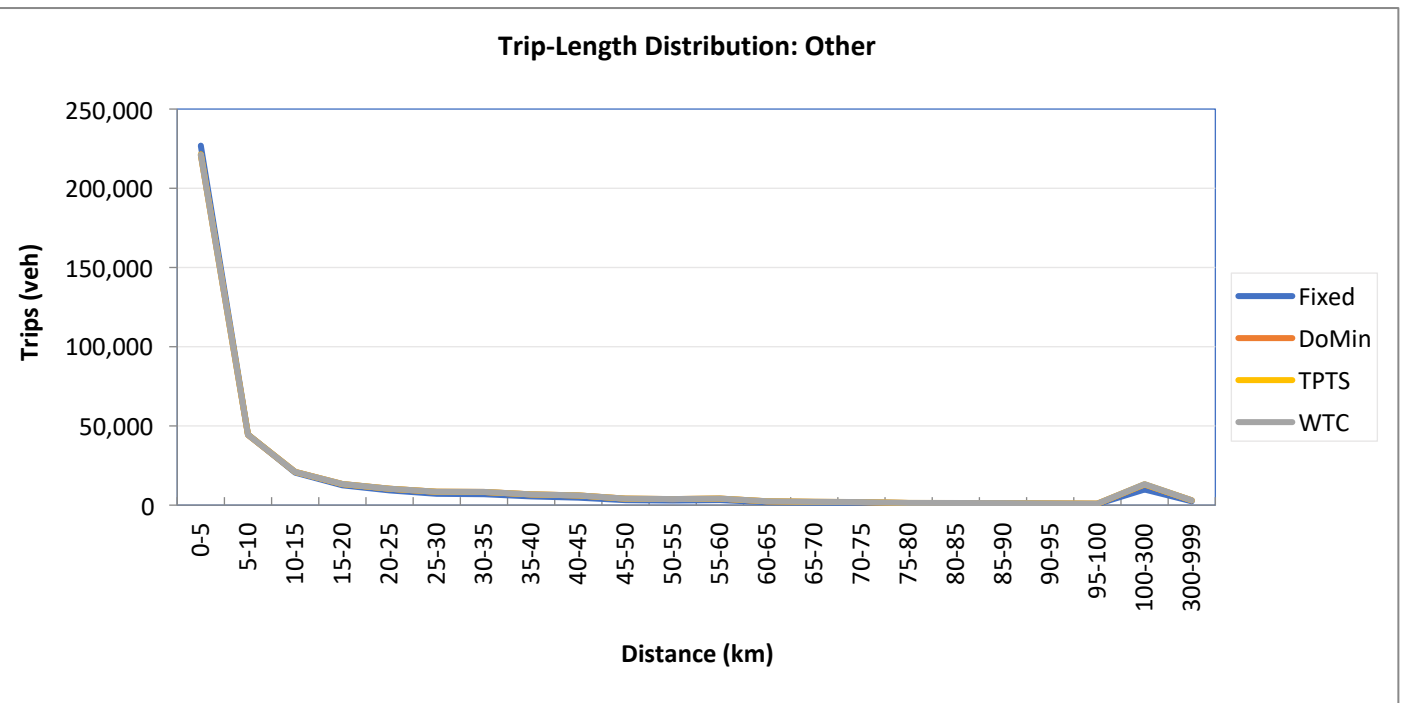
without IZ trips

with IZ trips

Other

Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	302,854	226,914	44,593	20,512	12,519	9,297	7,143	6,896	5,503	4,725	3,138	2,901	3,188	1,856	1,595	1,479	1,055	1,045	967	810	695	9,867	2,427	
Do-Minimum Trips	289,472	221,287	44,321	20,986	13,307	10,358	8,450	8,324	6,798	6,143	4,099	3,816	4,139	2,415	2,066	1,911	1,363	1,341	1,274	1,068	923	12,996	3,016	
TPTS Only Ttips	289,022	221,422	44,405	20,984	13,311	10,361	8,449	8,315	6,806	6,131	4,105	3,826	4,146	2,452	2,094	1,935	1,394	1,354	1,288	1,083	938	13,134	3,036	
Optimised Package Trips	289,096	221,124	44,310	20,984	13,362	10,371	8,461	8,366	6,805	6,153	4,123	3,836	4,152	2,451	2,104	1,949	1,401	1,359	1,302	1,093	954	13,244	3,068	
Fixed Demand Veh.kms	0	413,222	322,656	250,136	218,058	207,433	196,358	226,258	206,523	198,800	149,303	152,076	182,402	116,524	106,861	107,061	81,825	86,246	84,561	75,199	67,597	1,604,878	1,035,627	
Do-Minimum Veh.kms	0	401,870	320,932	256,401	231,866	231,335	232,535	272,934	254,869	258,430	194,958	199,954	236,869	151,640	138,439	138,372	105,700	110,613	111,421	99,174	89,851	2,110,539	1,272,156	
TPTS Only Veh.kms	0	401,720	321,498	256,359	231,898	231,446	232,537	272,681	255,171	257,909	195,281	200,506	237,283	153,931	140,333	140,138	108,112	111,689	112,603	100,592	91,308	2,132,681	1,280,194	
Optimised Package Veh.kms	0	401,643	321,060	256,370	232,813	231,650	232,761	274,296	255,139	258,872	196,106	201,032	237,627	153,851	140,969	141,132	108,623	112,138	113,807	101,535	92,850	2,148,610	1,291,587	

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	302,854	289,472	289,022	289,096	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	226,914	221,287	221,422	221,124	413,222	401,870	401,720	401,643	1.8	1.8	1.8	1.8
3	5	10	44,593	44,321	44,405	44,310	322,656	320,932	321,498	321,060	7.2	7.2	7.2	7.2
4	10	15	20,512	20,986	20,984	20,984	250,136	256,401	256,359	256,370	12.2	12.2	12.2	12.2
5	15	20	12,519	13,307	13,311	13,362	218,058	231,866	231,898	232,813	17.4	17.4	17.4	17.4
6	20	25	9,297	10,358	10,361	10,371	207,433	231,335	231,446	231,650	22.3	22.3	22.3	22.3
7	25	30	7,143	8,450	8,449	8,461	196,358	232,535	232,537	232,761	27.5	27.5	27.5	27.5
8	30	35	6,896	8,324	8,315	8,366	226,258	272,934	272,681	274,296	32.8	32.8	32.8	32.8
9	35	40	5,503	6,798	6,806	6,805	206,523	254,869	255,171	255,139	37.5	37.5	37.5	37.5
10	40	45	4,725	6,143	6,131	6,153	198,800	258,430	257,909	258,872	42.1	42.1	42.1	42.1
11	45	50	3,138	4,099	4,105	4,123	149,303	194,958	195,281	196,106	47.6	47.6	47.6	47.6
12	50	55	2,901	3,816	3,826	3,836	152,076	199,954	200,506	201,032	52.4	52.4	52.4	52.4
13	55	60	3,188	4,139	4,146	4,152	182,402	236,869	237,283	237,627	57.2	57.2	57.2	57.2
14	60	65	1,856	2,415	2,452	2,451	116,524	151,640	153,931	153,851	62.8	62.8	62.8	62.8
15	65	70	1,595	2,066	2,094	2,104	106,861	138,439	140,333	140,969	67.0	67.0	67.0	67.0
16	70	75	1,479	1,911	1,935	1,949	107,061	138,372	140,138	141,132	72.4	72.4	72.4	72.4
17	75	80	1,055	1,363	1,394	1,401	81,825	105,700	108,112	108,623	77.5	77.5	77.5	77.5
18	80	85	1,045	1,341	1,354	1,359	86,246	110,613	111,689	112,138	82.5	82.5	82.5	82.5
19	85	90	967	1,274	1,288	1,302	84,561	111,421	112,603	113,807	87.4	87.5	87.4	87.4
20	90	95	810	1,068	1,083	1,093	75,199	99,174	100,592	101,535	92.9	92.9	92.9	92.9
21	95	100	695	923	938	954	67,597	89,851	91,308	92,850	97.3	97.3	97.3	97.3
22	100	300	9,867	12,996	13,134	13,244	1,604,878	2,110,539	2,132,681	2,148,610	162.7	162.4	162.4	162.2
23	300	999	2,427	3,016	3,036	3,068	1,035,627	1,272,156	1,280,194	1,291,587	426.8	421.8	421.7	421.0
Total			369,127	380,401	380,970	380,971	6,089,604	7,420,856	7,465,869	7,504,472	16.5	19.5	19.6	19.7



Mean TLD

TLD	Fixed	DoMin	TPTS	WTC
Mean (1)	16.5	19.5	19.6	19.7
Mean (2)	9.1	11.1	11.1	11.2

without IZ trips

with IZ trips

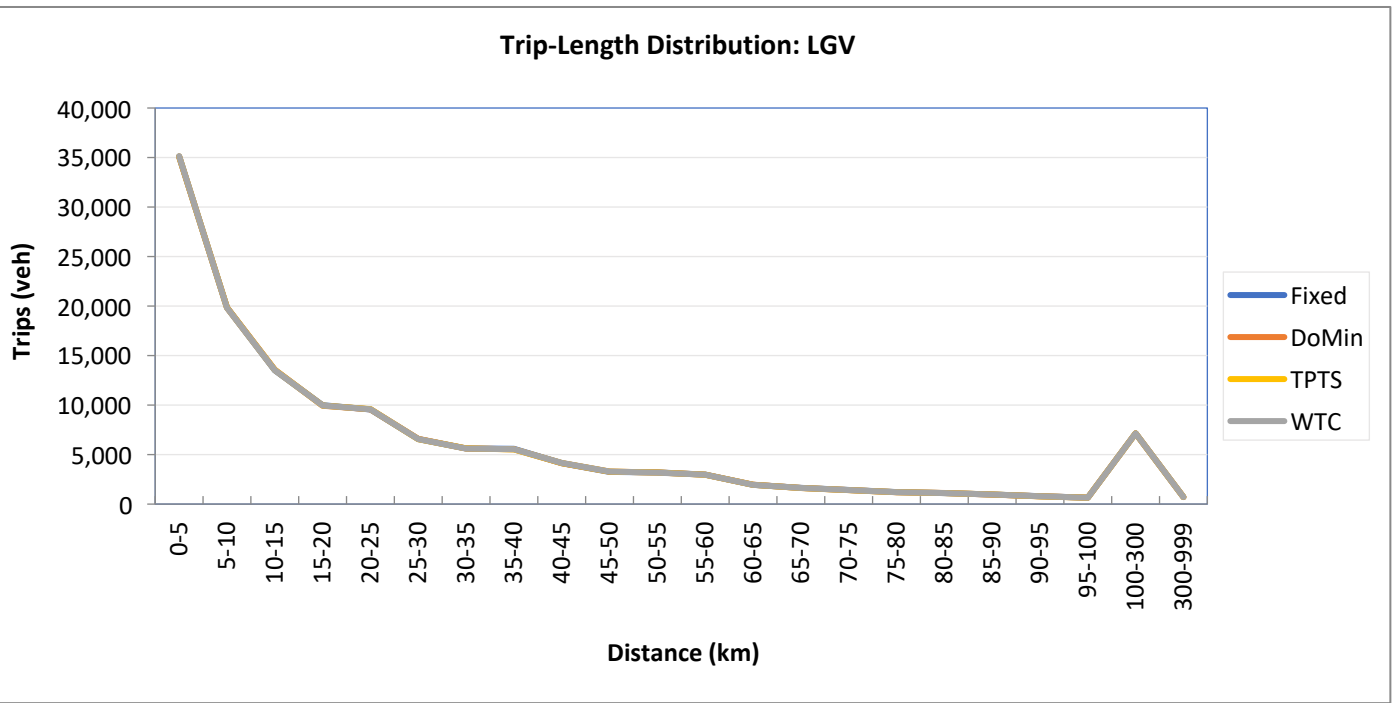
Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	54,946	35,101	19,854	13,509	9,990	9,557	6,568	5,621	5,585	4,133	3,251	3,205	2,980	1,947	1,640	1,428	1,214	1,113	969	799	648	7,148	713	
Do-Minimum Trips	54,977	35,089	19,855	13,577	9,934	9,574	6,590	5,618	5,538	4,135	3,282	3,193	2,971	1,961	1,628	1,416	1,200	1,123	962	789	651	7,141	713	
TPTS Only Ttips	54,984	35,111	19,850	13,554	9,953	9,594	6,555	5,629	5,522	4,144	3,280	3,194	2,969	1,951	1,628	1,415	1,207	1,115	976	783	650	7,142	712	
Optimised Package Trips	54,983	35,141	19,824	13,529	9,957	9,572	6,568	5,606	5,548	4,162	3,289	3,174	2,972	1,948	1,635	1,421	1,207	1,114	970	796	647	7,144	713	
Fixed Demand Veh.kms	0	83,126	145,148	166,293	173,901	214,070	180,494	183,162	209,253	174,632	154,239	167,742	171,173	121,939	110,330	103,376	94,114	91,739	84,539	73,982	63,014	1,109,474	260,714	
Do-Minimum Veh.kms	0	83,272	144,959	166,974	172,846	214,333	181,120	183,100	207,569	174,638	155,722	167,142	170,710	122,839	109,511	102,557	93,004	92,520	83,892	73,059	63,282	1,108,244	260,666	
TPTS Only Veh.kms	0	83,390	145,042	166,710	173,249	214,821	180,210	183,472	206,957	175,033	155,648	167,149	170,613	122,163	109,503	102,490	93,517	91,893	85,114	72,562	63,211	1,108,592	260,554	
Optimised Package Veh.kms	0	83,548	144,867	166,341	173,314	214,310	180,590	182,685	207,829	175,813	156,060	166,140	170,737	121,971	109,939	102,876	93,552	91,796	84,626	73,682	62,926	1,108,370	260,755	

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	54,946	54,977	54,984	54,983	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	35,101	35,089	35,111	35,141	83,126	83,272	83,390	83,548	2.4	2.4	2.4	2.4
3	5	10	19,854	19,855	19,850	19,824	145,148	144,959	145,042	144,867	7.3	7.3	7.3	7.3
4	10	15	13,509	13,577	13,554	13,529	166,293	166,974	166,710	166,341	12.3	12.3	12.3	12.3
5	15	20	9,990	9,934	9,953	9,957	173,901	172,846	173,249	173,314	17.4	17.4	17.4	17.4
6	20	25	9,557	9,574	9,594	9,572	214,070	214,333	214,821	214,310	22.4	22.4	22.4	22.4
7	25	30	6,568	6,590	6,555	6,568	180,494	181,120	180,210	180,590	27.5	27.5	27.5	27.5
8	30	35	5,621	5,618	5,629	5,606	183,162	183,100	183,472	182,685	32.6	32.6	32.6	32.6
9	35	40	5,585	5,538	5,522	5,548	209,253	207,569	206,957	207,829	37.5	37.5	37.5	37.5
10	40	45	4,133	4,135	4,144	4,162	174,632	174,638	175,033	175,813	42.3	42.2	42.2	42.2
11	45	50	3,251	3,282	3,280	3,289	154,239	155,722	155,648	156,060	47.4	47.4	47.4	47.5
12	50	55	3,205	3,193	3,194	3,174	167,742	167,142	167,149	166,140	52.3	52.3	52.3	52.3
13	55	60	2,980	2,971	2,969	2,972	171,173	170,710	170,613	170,737	57.4	57.5	57.5	57.5
14	60	65	1,947	1,961	1,951	1,948	121,939	122,839	122,163	121,971	62.6	62.6	62.6	62.6
15	65	70	1,640	1,628	1,628	1,635	110,330	109,511	109,503	109,939	67.3	67.3	67.3	67.3
16	70	75	1,428	1,416	1,415	1,421	103,376	102,557	102,490	102,876	72.4	72.4	72.4	72.4
17	75	80	1,214	1,200	1,207	1,207	94,114	93,004	93,517	93,552	77.5	77.5	77.5	77.5
18	80	85	1,113	1,123	1,115	1,114	91,739	92,520	91,893	91,796	82.4	82.4	82.4	82.4
19	85	90	969	962	976	970	84,539	83,892	85,114	84,626	87.2	87.2	87.2	87.2
20	90	95	799	789	783	796	73,982	73,059	72,562	73,682	92.6	92.6	92.6	92.6
21	95	100	648	651	650	647	63,014	63,282	63,211	62,926	97.2	97.2	97.2	97.2
22	100	300	7,148	7,141	7,142	7,144	1,109,474	1,108,244	1,108,592	1,108,370	155.2	155.2	155.2	155.2
23	300	999	713	713	712	713	260,714	260,666	260,554	260,755	365.7	365.6	365.8	365.7
Total			136,972	136,941	136,934	136,935	4,136,455	4,131,958	4,131,892	4,132,725	30.2	30.2	30.2	30.2

HGV

Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	4,699	4,387	5,931	6,376	5,992	6,116	4,698	4,627	4,893	4,122	3,858	3,237	2,909	2,533	1,851	1,531	1,539	1,550	1,321	1,096	1,079	18,202	6,907	
Do-Minimum Trips	4,701	4,387	5,958	6,375	6,005	6,120	4,713	4,629	4,855	4,137	3,859	3,227	2,885	2,525	1,859	1,541	1,558	1,545	1,315	1,092	1,080	18,185	6,903	
TPTS Only Ttips	4,701	4,388	5,950	6,370	6,012	6,111	4,713	4,646	4,855	4,138	3,871	3,218	2,887	2,524	1,862	1,536	1,566	1,531	1,315	1,116	1,090	18,154	6,903	
Optimised Package Trips	4,701	4,397	5,941	6,371	5,998	6,123	4,714	4,627	4,835	4,169	3,853	3,235	2,896	2,512	1,867	1,533	1,564	1,541	1,310	1,103	1,082	18,171	6,914	
Fixed Demand Veh.kms	0	12,490	45,427	78,876	104,486	137,159	129,051	150,695	183,434	174,567	183,613	169,699	167,288	158,559	124,672	111,052	119,235	127,729	115,413	101,408	105,091	3,167,304	2,955,631	
Do-Minimum Veh.kms	0	12,492	45,562	78,878	104,784	137,241	129,463	150,810	182,010	175,211	183,613	169,147	165,912	158,027	125,210	111,777	120,771	127,319	114,808	101,060	105,269	3,163,914	2,952,886	
TPTS Only Veh.kms	0	12,497	45,490	78,803	104,930	137,041	129,402	151,406	181,817	175,245	184,124	168,661	166,071	157,971	125,403	111,407	121,405	126,118	114,823	103,349	106,254	3,159,892	2,953,262	
Optimised Package Veh.kms	0	12,529	45,435	78,829	104,718	137,305	129,455	150,770	181,176	176,544	183,264	169,517	166,625	157,250	125,776	111,122	121,263	127,035	114,368	102,066	105,449	3,154,515	2,956,594	

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	4,699	4,701	4,701	4,701	0	0	0	0	0.0	0.0	0.0	0.0



Mean TLD

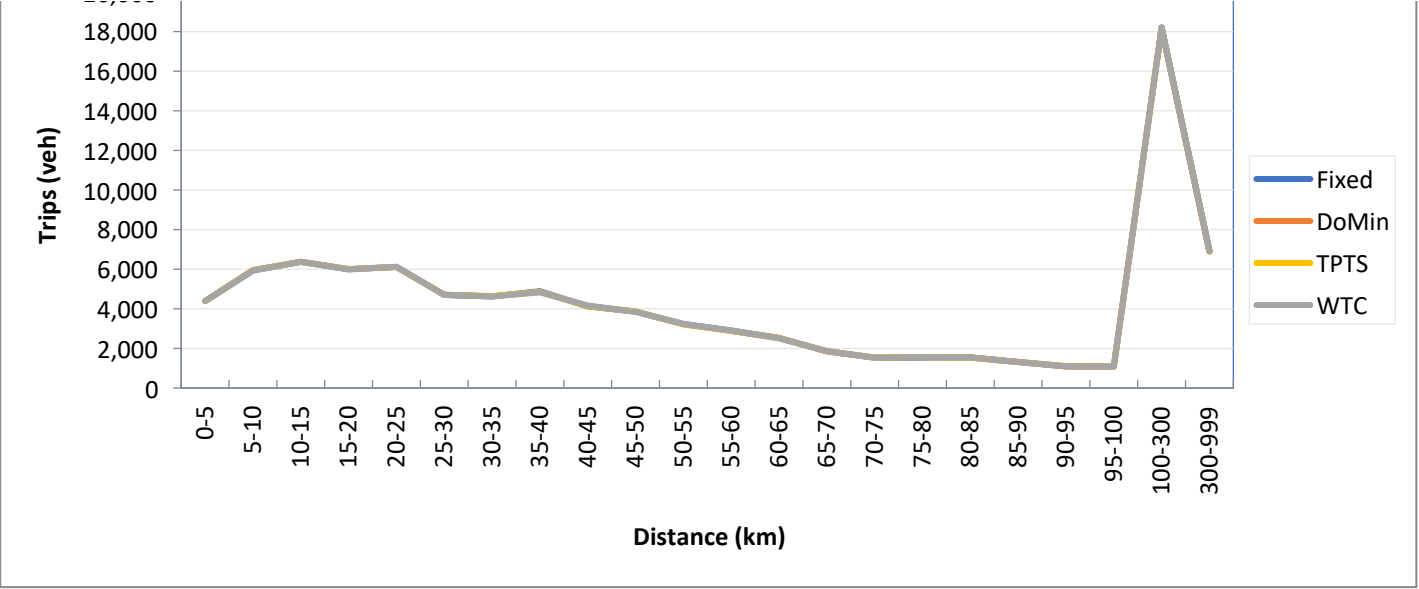
TLD	Fixed	DoMin	TPTS	WTC
Mean (1)	30.2	30.2	30.2	30.2
Mean (2)	21.6	21.5	21.5	21.5

without IZ trips

with IZ trips



2	0	5	4,387	4,387	4,388	4,397	12,490	12,492	12,497	12,529	2.8	2.8	2.8	2.8
3	5	10	5,931	5,958	5,950	5,941	45,427	45,562	45,490	45,435	7.7	7.6	7.6	7.6
4	10	15	6,376	6,375	6,370	6,371	78,876	78,878	78,803	78,829	12.4	12.4	12.4	12.4
5	15	20	5,992	6,005	6,012	5,998	104,486	104,784	104,930	104,718	17.4	17.4	17.5	17.5
6	20	25	6,116	6,120	6,111	6,123	137,159	137,241	137,041	137,305	22.4	22.4	22.4	22.4
7	25	30	4,698	4,713	4,713	4,714	129,051	129,463	129,402	129,455	27.5	27.5	27.5	27.5
8	30	35	4,627	4,629	4,646	4,627	150,695	150,810	151,406	150,770	32.6	32.6	32.6	32.6
9	35	40	4,893	4,855	4,855	4,835	183,434	182,010	181,817	181,176	37.5	37.5	37.4	37.5
10	40	45	4,122	4,137	4,138	4,169	174,567	175,211	175,245	176,544	42.3	42.3	42.3	42.4
11	45	50	3,858	3,859	3,871	3,853	183,613	183,613	184,124	183,264	47.6	47.6	47.6	47.6
12	50	55	3,237	3,227	3,218	3,235	169,699	169,147	168,661	169,517	52.4	52.4	52.4	52.4
13	55	60	2,909	2,885	2,887	2,896	167,288	165,912	166,071	166,625	57.5	57.5	57.5	57.5
14	60	65	2,533	2,525	2,524	2,512	158,559	158,027	157,971	157,250	62.6	62.6	62.6	62.6
15	65	70	1,851	1,859	1,862	1,867	124,672	125,210	125,403	125,776	67.4	67.4	67.4	67.4
16	70	75	1,531	1,541	1,536	1,533	111,052	111,777	111,407	111,122	72.5	72.5	72.5	72.5
17	75	80	1,539	1,558	1,566	1,564	119,235	120,771	121,405	121,263	77.5	77.5	77.5	77.5
18	80	85	1,550	1,545	1,531	1,541	127,729	127,319	126,118	127,035	82.4	82.4	82.4	82.4
19	85	90	1,321	1,315	1,315	1,310	115,413	114,808	114,823	114,368	87.3	87.3	87.3	87.3
20	90	95	1,096	1,092	1,116	1,103	101,408	101,060	103,349	102,066	92.5	92.6	92.6	92.6
21	95	100	1,079	1,080	1,090	1,082	105,091	105,269	106,254	105,449	97.4	97.4	97.5	97.4
22	100	300	18,202	18,185	18,154	18,171	3,167,304	3,163,914	3,159,892	3,154,515	174.0	174.0	174.1	173.6
23	300	999	6,907	6,903	6,903	6,914	2,955,631	2,952,886	2,953,262	2,956,594	427.9	427.8	427.8	427.6
Total			94,756	94,754	94,754	94,754	8,622,878	8,616,165	8,615,374	8,611,604	91.0	90.9	90.9	90.9



Mean TLD

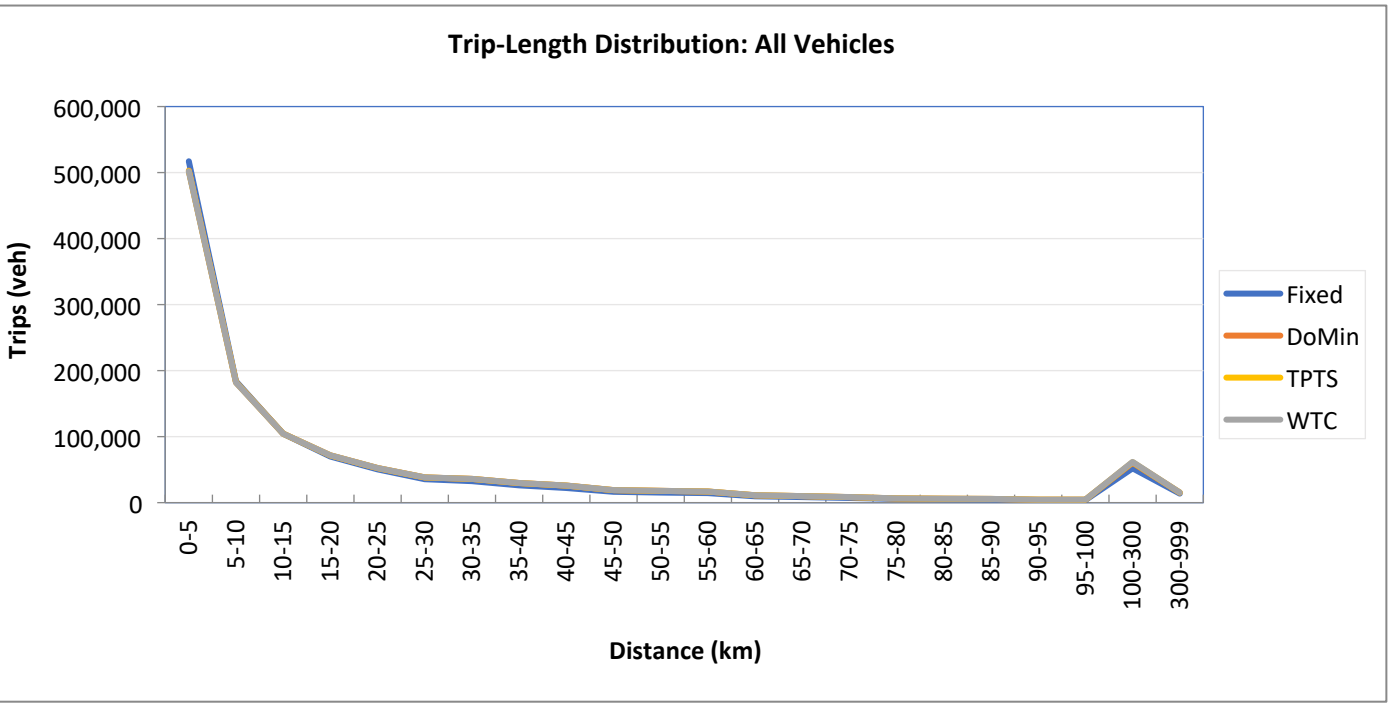
TLD	Fixed	DoMin	TPTS	WTC	
Mean (1)	91.0	90.9	90.9	90.9	without IZ trips
Mean (2)	86.7	86.6	86.6	86.6	with IZ trips

TRIP-LENGTH DISTRIBUTION

All Vehicles

Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	525,942	517,119	183,871	104,354	69,853	50,374	35,501	32,566	26,195	22,194	16,430	15,256	14,454	9,620	8,426	7,065	5,664	5,137	4,837	3,809	3,801	51,998	13,730	
Do-Minimum Trips	503,156	502,999	182,321	104,515	71,619	52,435	38,215	35,994	29,738	25,843	18,996	17,887	16,846	11,161	9,892	8,383	6,425	5,923	5,606	4,475	4,436	60,472	15,262	
TPTS Only Ttips	502,710	502,625	182,193	104,485	71,584	52,342	38,206	35,928	29,703	25,853	18,992	17,840	16,896	11,194	9,917	8,432	6,459	5,924	5,643	4,531	4,501	61,256	15,309	
Optimised Package Trips	502,426	501,742	181,727	104,438	71,740	52,483	38,316	35,999	29,822	25,902	19,020	17,860	16,851	11,239	9,909	8,516	6,490	5,970	5,681	4,505	4,582	61,711	15,415	
Fixed Demand Veh.kms	0	1,054,911	1,340,496	1,280,473	1,212,141	1,129,030	973,655	1,063,223	981,299	936,208	780,955	798,445	828,914	602,227	565,878	511,618	438,990	423,000	422,912	352,496	370,053	8,495,621	5,690,504	
Do-Minimum Veh.kms	0	1,026,619	1,330,140	1,283,772	1,243,843	1,175,777	1,048,659	1,175,054	1,113,954	1,090,232	902,680	935,962	966,495	698,537	664,465	607,179	497,682	487,750	490,307	414,226	431,894	9,845,769	6,280,340	
TPTS Only Veh.kms	0	1,025,596	1,329,204	1,283,578	1,243,306	1,173,699	1,048,304	1,172,898	1,112,368	1,090,588	902,361	933,532	969,326	700,517	666,203	610,825	500,328	487,829	493,542	419,376	438,334	9,960,182	6,299,096	
Optimised Package Veh.kms	0	1,023,060	1,325,648	1,282,992	1,245,712	1,176,784	1,051,540	1,175,307	1,116,989	1,092,787	903,718	934,576	966,754	703,388	665,584	616,863	502,696	491,586	496,829	417,034	446,107	10,018,609	6,336,726	

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	525,942	503,156	502,710	502,426	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	517,119	502,999	502,625	501,742	1,054,911	1,026,619	1,025,596	1,023,060	2.0	2.0	2.0	2.0
3	5	10	183,871	182,321	182,193	181,727	1,340,496	1,330,140	1,329,204	1,325,648	7.3	7.3	7.3	7.3
4	10	15	104,354	104,515	104,485	104,438	1,280,473	1,283,772	1,283,578	1,282,992	12.3	12.3	12.3	12.3
5	15	20	69,853	71,619	71,584	71,740	1,212,141	1,243,843	1,243,306	1,245,712	17.4	17.4	17.4	17.4
6	20	25	50,374	52,435	52,342	52,483	1,129,030	1,175,777	1,173,699	1,176,784	22.4	22.4	22.4	22.4
7	25	30	35,501	38,215	38,206	38,316	973,655	1,048,659	1,048,304	1,051,540	27.4	27.4	27.4	27.4
8	30	35	32,566	35,994	35,928	35,999	1,063,223	1,175,054	1,172,898	1,175,307	32.6	32.6	32.6	32.6
9	35	40	26,195	29,738	29,703	29,822	981,299	1,113,954	1,112,368	1,116,989	37.5	37.5	37.5	37.5
10	40	45	22,194	25,843	25,853	25,902	936,208	1,090,232	1,090,588	1,092,787	42.2	42.2	42.2	42.2
11	45	50	16,430	18,996	18,992	19,020	780,955	902,680	902,361	903,718	47.5	47.5	47.5	47.5
12	50	55	15,256	17,887	17,840	17,860	798,445	935,962	933,532	934,576	52.3	52.3	52.3	52.3
13	55	60	14,454	16,846	16,896	16,851	828,914	966,495	969,326	966,754	57.4	57.4	57.4	57.4
14	60	65	9,620	11,161	11,194	11,239	602,227	698,537	700,517	703,388	62.6	62.6	62.6	62.6
15	65	70	8,426	9,892	9,917	9,909	565,878	664,465	666,203	665,584	67.2	67.2	67.2	67.2
16	70	75	7,065	8,383	8,432	8,516	511,618	607,179	610,825	616,863	72.4	72.4	72.4	72.4
17	75	80	5,664	6,425	6,459	6,490	438,990	497,682	500,328	502,696	77.5	77.5	77.5	77.5
18	80	85	5,137	5,923	5,924	5,970	423,000	487,750	487,829	491,586	82.3	82.3	82.3	82.3
19	85	90	4,837	5,606	5,643	5,681	422,912	490,307	493,542	496,829	87.4	87.5	87.5	87.5
20	90	95	3,809	4,475	4,531	4,505	352,496	414,226	419,376	417,034	92.5	92.6	92.6	92.6
21	95	100	3,801	4,436	4,501	4,582	370,053	431,894	438,334	446,107	97.3	97.4	97.4	97.4
22	100	300	51,998	60,472	61,256	61,711	8,495,621	9,845,769	9,960,182	10,018,609	163.4	162.8	162.6	162.3
23	300	999	13,730	15,262	15,309	15,415	5,690,504	6,280,340	6,299,096	6,336,726	414.4	411.5	411.5	411.1
Total			1,202,254	1,229,445	1,229,813	1,229,919	30,253,047	33,711,336	33,860,996	33,991,290	25.2	27.4	27.5	27.6



Mean TLD

TLD	Fixed	DoMin	TPTS	WTC
Mean (1)	25.2	27.4	27.5	27.6
Mean (2)	17.5	19.5	19.5	19.6

without IZ trips

with IZ trips

Business

Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	32,198	36,385	23,710	17,949	12,989	8,295	5,596	4,951	4,173	3,587	3,026	2,910	2,633	2,245	1,940	1,506	1,124	901	864	817	883	11,782	2,921	
Do-Minimum Trips	27,833	32,026	21,384	16,456	12,250	7,844	5,668	5,754	5,273	4,668	3,882	3,912	3,500	2,885	2,505	1,957	1,442	1,197	1,123	1,112	1,099	15,226	3,764	
TPTS Only Ttips	27,679	31,812	21,279	16,355	12,189	7,831	5,624	5,692	5,250	4,653	3,867	3,878	3,529	2,905	2,524	1,983	1,462	1,210	1,147	1,121	1,134	15,748	3,782	
Optimised Package Trips	27,591	31,624	21,109	16,343	12,118	7,837	5,608	5,734	5,288	4,659	3,884	3,868	3,488	2,922	2,526	2,025	1,482	1,226	1,162	1,104	1,190	16,008	3,833	
Fixed Demand Veh.kms	0	82,103	172,645	222,493	225,357	185,010	153,347	161,187	156,269	151,717	143,524	152,670	151,168	140,333	130,507	108,991	87,067	74,198	75,566	75,580	86,024	1,954,107	1,134,691	
Do-Minimum Veh.kms	0	72,750	155,720	204,351	212,727	175,030	155,470	187,501	197,569	197,444	184,068	205,098	201,022	180,266	168,556	141,592	111,707	98,561	98,230	102,907	107,140	2,531,517	1,454,637	
TPTS Only Veh.kms	0	72,209	154,982	203,129	211,648	174,772	154,284	185,458	196,669	196,781	183,357	203,350	202,669	181,446	169,828	143,557	113,328	99,630	100,349	103,737	110,643	2,604,001	1,461,670	
Optimised Package Veh.kms	0	71,779	153,582	202,961	210,426	174,843	153,833	186,819	198,092	197,070	184,184	202,832	200,325	182,515	169,906	146,618	114,777	101,002	101,679	102,210	115,981	2,639,619	1,480,015	

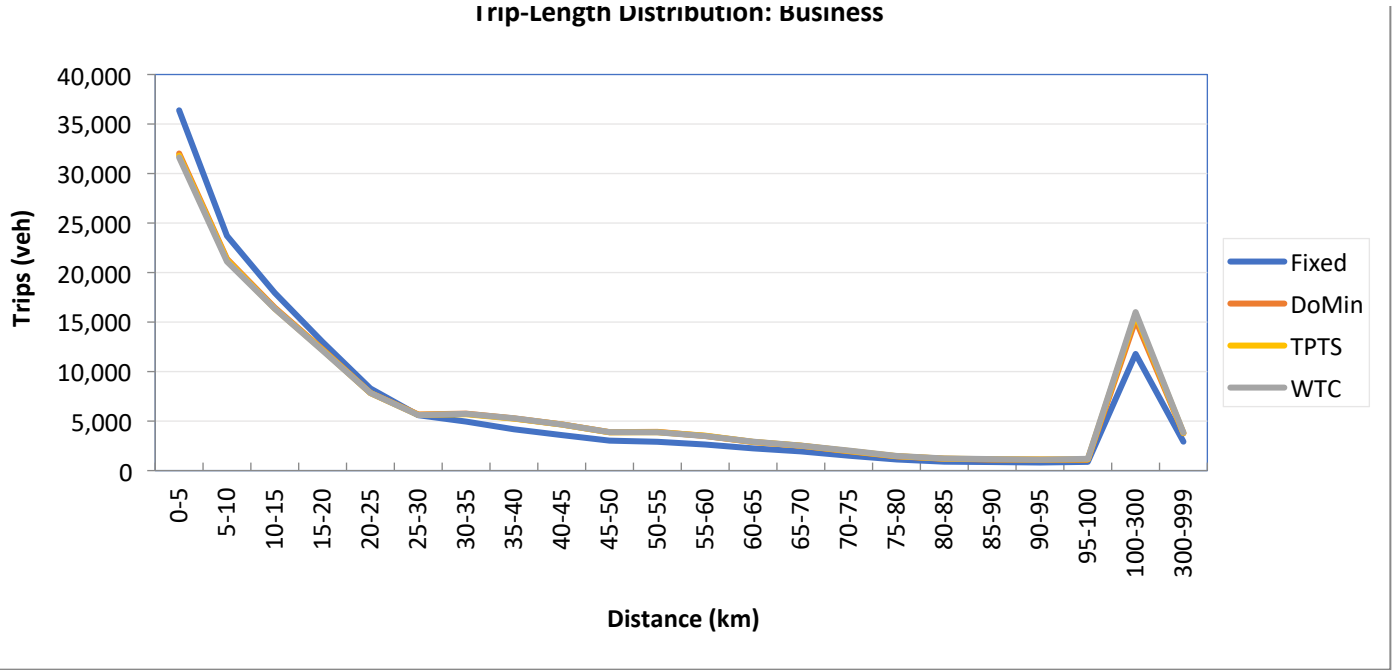
Band	Distance (km)	Trips (veh)	Trip.kms	Average Length (km)	Trip Length Distribution: Business
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Band	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	32,198	27,833	27,679	27,591	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	36,385	32,026	31,812	31,624	82,103	72,750	72,209	71,779	2.3	2.3	2.3	2.3
3	5	10	23,710	21,384	21,279	21,109	172,645	155,720	154,982	153,582	7.3	7.3	7.3	7.3
4	10	15	17,949	16,456	16,355	16,343	222,493	204,351	203,129	202,961	12.4	12.4	12.4	12.4
5	15	20	12,989	12,250	12,189	12,118	225,357	212,727	211,648	210,426	17.3	17.4	17.4	17.4
6	20	25	8,295	7,844	7,831	7,837	185,010	175,030	174,772	174,843	22.3	22.3	22.3	22.3
7	25	30	5,596	5,668	5,624	5,608	153,347	155,470	154,284	153,833	27.4	27.4	27.4	27.4
8	30	35	4,951	5,754	5,692	5,734	161,187	187,501	185,458	186,819	32.6	32.6	32.6	32.6
9	35	40	4,173	5,273	5,250	5,288	156,269	197,569	196,669	198,092	37.4	37.5	37.5	37.5
10	40	45	3,587	4,668	4,653	4,659	151,717	197,444	196,781	197,070	42.3	42.3	42.3	42.3
11	45	50	3,026	3,882	3,867	3,884	143,524	184,068	183,357	184,184	47.4	47.4	47.4	47.4
12	50	55	2,910	3,912	3,878	3,868	152,670	205,098	203,350	202,832	52.5	52.4	52.4	52.4
13	55	60	2,633	3,500	3,529	3,488	151,168	201,022	202,669	200,325	57.4	57.4	57.4	57.4
14	60	65	2,245	2,885	2,905	2,922	140,333	180,266	181,446	182,515	62.5	62.5	62.5	62.5
15	65	70	1,940	2,505	2,524	2,526	130,507	168,556	169,828	169,906	67.3	67.3	67.3	67.3
16	70	75	1,506	1,957	1,983	2,025	108,991	141,592	143,557	146,618	72.4	72.3	72.4	72.4
17	75	80	1,124	1,442	1,462	1,482	87,067	111,707	113,328	114,777	77.5	77.5	77.5	77.5
18	80	85	901	1,197	1,210	1,226	74,198	98,561	99,630	101,002	82.4	82.3	82.3	82.4
19	85	90	864	1,123	1,147	1,162	75,566	98,230	100,349	101,679	87.5	87.5	87.5	87.5
20	90	95	817	1,112	1,121	1,104	75,580	102,907	103,737	102,210	92.5	92.5	92.6	92.6
21	95	100	883	1,099	1,134	1,190	86,024	107,140	110,643	115,981	97.5	97.5	97.5	97.5
22	100	300	11,782	15,226	15,748	16,008	1,954,107	2,531,517	2,604,001	2,639,619	165.9	166.3	165.4	164.9
23	300	999	2,921	3,764	3,782	3,833	1,134,691	1,454,637	1,461,670	1,480,015	388.4	386.4	386.5	386.1
Total			151,189	154,927	154,977	155,038	5,824,556	7,143,864	7,227,498	7,291,067	38.5	46.1	46.6	47.0

Commute

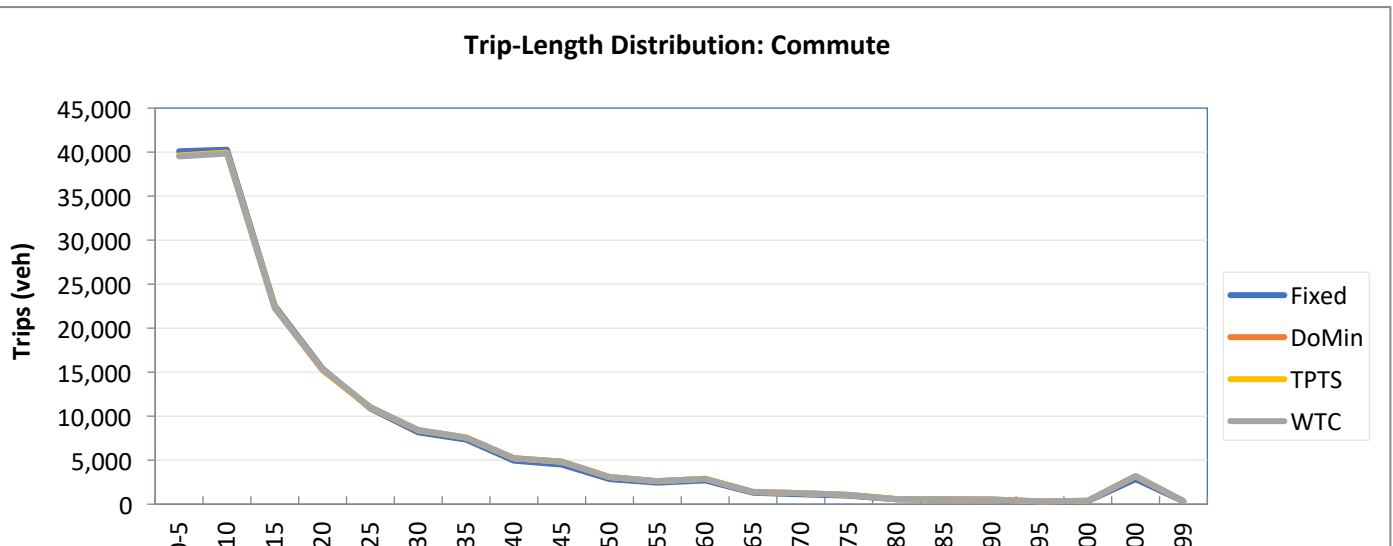
Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	40,368	40,096	40,270	22,516	15,389	10,873	8,164	7,336	4,945	4,501	2,854	2,448	2,700	1,306	1,124	968	553	501	485	287	344	2,849	322	
Do-Minimum Trips	39,025	39,587	39,942	22,358	15,214	11,011	8,386	7,571	5,214	4,827	3,079	2,614	2,883	1,395	1,252	1,054	578	542	526	322	383	3,160	350	
TPTS Only Tips	39,003	39,616	39,946	22,333	15,265	10,947	8,401	7,563	5,214	4,834	3,081	2,609	2,891	1,387	1,251	1,061	577	544	529	323	384	3,192	351	
Optimised Package Trips	38,978	39,507	39,844	22,265	15,321	11,015	8,433	7,577	5,226	4,831	3,087	2,621	2,878	1,395	1,258	1,061	575	550	531	320	389	3,209	354	
Fixed Demand Veh.kms	0	102,099	296,055	275,429	267,100	245,039	224,419	240,106	185,105	189,193	135,945	127,884	154,060	81,963	75,235	70,087	42,834	41,223	42,576	26,618	33,384	428,449	125,482	
Do-Minimum Veh.kms	0	100,922	293,893	273,800	264,402	248,221	230,569	247,665	195,073	202,852	146,630	136,585	164,606	87,521	83,864	76,307	44,762	44,626	46,213	29,867	37,230	474,064	136,185	
TPTS Only Veh.kms	0	101,044	293,927	273,728	265,471	246,814	230,932	247,434	195,060	203,134	146,687	136,342	165,059	87,015	83,787	76,791	44,741	44,757	46,440	29,912	37,327	479,414	136,843	
Optimised Package Veh.kms	0	100,791	293,135	272,835	266,235	248,311	231,872	247,904	195,475	203,053	146,985	136,920	164,301	87,519	84,237	76,787	44,537	45,284	46,669	29,642	37,826	481,860	137,643	

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	40,368	39,025	39,003	38,978	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	40,096	39,587	39,616	39,507	102,099	100,922	101,044	100,791	2.5	2.5	2.6	2.6
3	5	10	40,270	39,942	39,946	39,844	296,055	293,893	293,927	293,135	7.4	7.4	7.4	7.4
4	10	15	22,516	22,358	22,333	22,265	275,429	273,800	273,728	272,835	12.2	12.2	12.3	12.3
5	15	20	15,389	15,214	15,265	15,321	267,100	264,402	265,471	266,235	17.4	17.4	17.4	17.4
6	20	25	10,873	11,011	10,947	11,015	245,039	248,221	246,814	248,311	22.5	22.5	22.5	22.5
7	25	30	8,164	8,386	8,401	8,433	224,419	230,569	230,932	231,872	27.5	27.5	27.5	27.5
8	30	35	7,336	7,571	7,563	7,577	240,106	247,665	247,434	247,904	32.7	32.7	32.7	32.7
9	35	40	4,945	5,214	5,214	5,226	185,105	195,073	195,060	195,475	37.4	37.4	37.4	37.4
10	40	45	4,501	4,827	4,834	4,831	189,193	202,852	203,134	203,053	42.0	42.0	42.0	42.0
11	45	50	2,854	3,079	3,081	3,087	135,945	146,630	146,687	146,985	47.6	47.6	47.6	47.6
12	50	55	2,448	2,614	2,609	2,621	127,884	136,585	136,342	136,920	52.2	52.3	52.3	52.2



Mean TLD

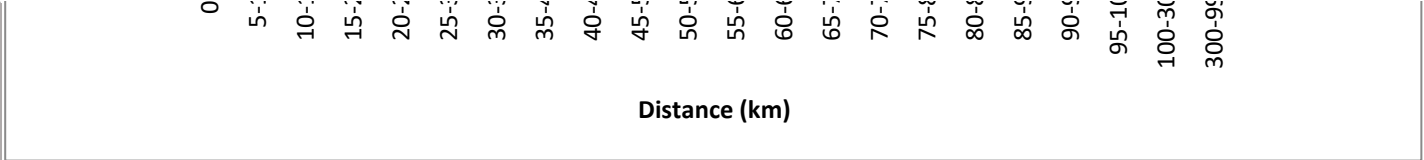
TLD	Fixed	DoMin	TPTS	WTC	
Mean (1)	38.5	46.1	46.6	47.0	without IZ trips
Mean (2)	31.8	39.1	39.6	39.9	with IZ trips



13	55	60	2,700	2,883	2,891	2,878	154,060	164,606	165,059	164,301	57.1	57.1	57.1	57.1
14	60	65	1,306	1,395	1,387	1,395	81,963	87,521	87,015	87,519	62.8	62.7	62.7	62.7
15	65	70	1,124	1,252	1,251	1,258	75,235	83,864	83,787	84,237	66.9	67.0	67.0	67.0
16	70	75	968	1,054	1,061	1,061	70,087	76,307	76,791	76,787	72.4	72.4	72.4	72.4
17	75	80	553	578	577	575	42,834	44,762	44,741	44,537	77.4	77.5	77.5	77.5
18	80	85	501	542	544	550	41,223	44,626	44,757	45,284	82.3	82.3	82.3	82.3
19	85	90	485	526	529	531	42,576	46,213	46,440	46,669	87.8	87.8	87.8	87.8
20	90	95	287	322	323	320	26,618	29,867	29,912	29,642	92.7	92.7	92.7	92.7
21	95	100	344	383	384	389	33,384	37,230	37,327	37,826	97.2	97.2	97.2	97.2
22	100	300	2,849	3,160	3,192	3,209	428,449	474,064	479,414	481,860	150.4	150.0	150.2	150.2
23	300	999	322	350	351	354	125,482	136,185	136,843	137,643	389.2	389.2	389.5	389.2
Total			170,832	172,248	172,300	172,245	3,410,283	3,565,859	3,572,659	3,579,820	20.0	20.7	20.7	20.8

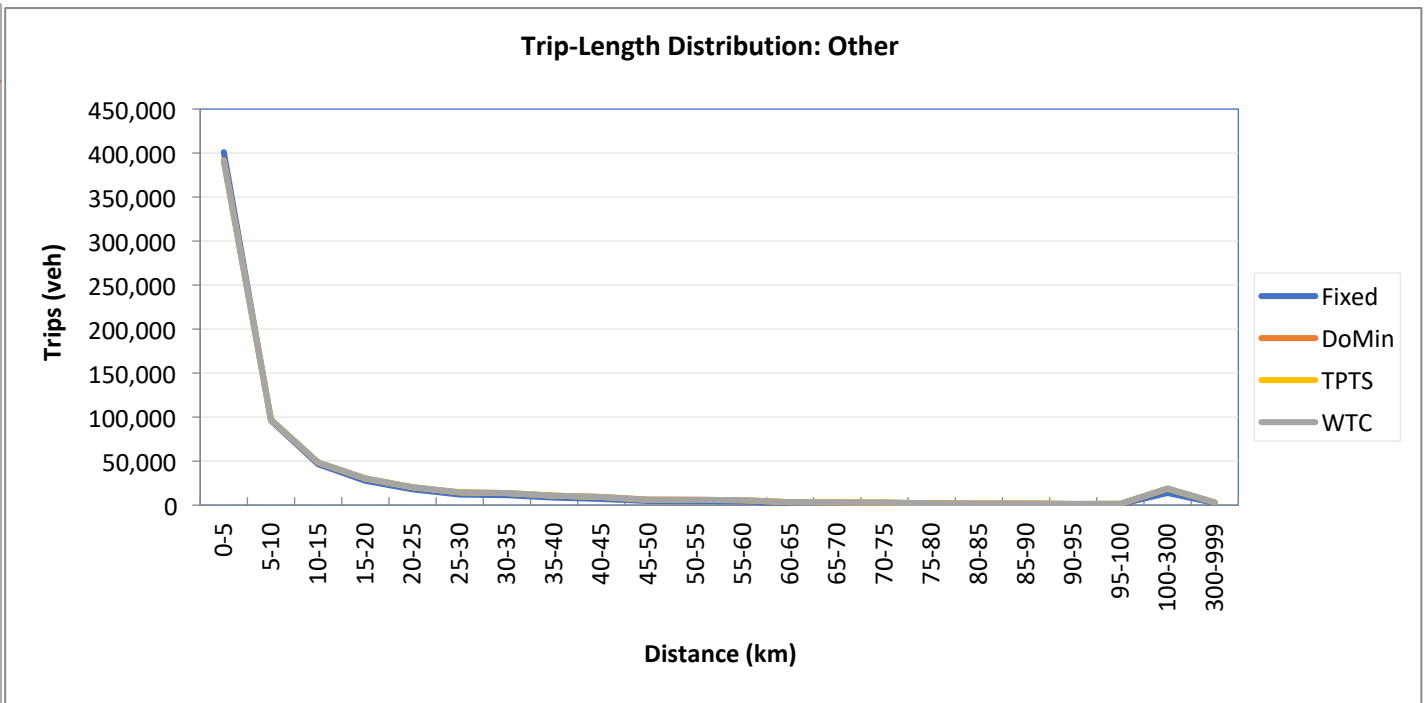
Other

Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	390,235	401,060	96,040	46,475	27,646	17,923	12,009	11,307	8,552	7,001	4,694	4,565	4,228	2,527	2,378	2,113	1,618	1,437	1,414	1,023	1,122	13,807	2,448	
Do-Minimum Trips	373,208	391,698	96,986	48,373	30,274	20,346	14,424	13,722	10,749	9,264	6,171	6,050	5,587	3,327	3,157	2,892	2,041	1,888	1,889	1,366	1,499	18,553	3,119	
TPTS Only Ttips	372,890	391,527	97,011	48,434	30,248	20,316	14,458	13,720	10,742	9,274	6,178	6,055	5,602	3,348	3,168	2,912	2,055	1,891	1,902	1,379	1,511	18,812	3,143	
Optimised Package Trips	372,760	390,913	96,823	48,470	30,415	20,406	14,547	13,723	10,805	9,330	6,178	6,073	5,617	3,386	3,138	2,944	2,062	1,910	1,913	1,400	1,527	18,983	3,185	
Fixed Demand Veh.kms	0	776,381	695,723	567,981	478,974	401,332	329,189	369,651	320,463	295,017	223,066	238,168	242,476	158,432	159,514	153,035	125,553	118,325	123,771	94,695	109,166	2,131,491	1,009,207	
Do-Minimum Veh.kms	0	758,551	703,362	591,956	525,118	456,087	395,772	448,411	402,714	390,514	293,223	315,619	320,585	208,475	211,857	209,618	158,046	155,503	165,388	126,502	145,812	2,863,555	1,272,794	
TPTS Only Veh.kms	0	757,839	703,416	592,609	524,542	455,313	396,673	448,325	402,419	390,955	293,506	315,850	321,475	209,754	212,602	211,091	159,128	155,803	166,559	127,681	146,983	2,904,702	1,282,062	
Optimised Package Veh.kms	0	756,061	702,095	593,131	527,279	457,312	399,192	448,534	404,818	393,344	293,504	316,791	322,307	212,178	210,605	213,298	159,627	157,346	167,548	129,567	148,561	2,929,816	1,297,421	



Mean TLD					
TLD	Fixed	DoMin	TPTS	WTC	
Mean (1)	20.0	20.7	20.7	20.8	without IZ trips
Mean (2)	16.1	16.9	16.9	16.9	with IZ trips

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	390,235	373,208	372,890	372,760	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	401,060	391,698	391,527	390,913	776,381	758,551	757,839	756,061	1.9	1.9	1.9	1.9
3	5	10	96,040	96,986	97,011	96,823	695,723	703,362	703,416	702,095	7.2	7.3	7.3	7.3
4	10	15	46,475	48,373	48,434	48,470	567,981	591,956	592,609	593,131	12.2	12.2	12.2	12.2
5	15	20	27,646	30,274	30,248	30,415	478,974	525,118	524,542	527,279	17.3	17.3	17.3	17.3
6	20	25	17,923	20,346	20,316	20,406	401,332	456,087	455,313	457,312	22.4	22.4	22.4	22.4
7	25	30	12,009	14,424	14,458	14,547	329,189	395,772	396,673	399,192	27.4	27.4	27.4	27.4
8	30	35	11,307	13,722	13,720	13,723	369,651	448,411	448,325	448,534	32.7	32.7	32.7	32.7
9	35	40	8,552	10,749	10,742	10,805	320,463	402,714	402,419	404,818	37.5	37.5	37.5	37.5
10	40	45	7,001	9,264	9,274	9,330	295,017	390,514	390,955	393,344	42.1	42.2	42.2	42.2
11	45	50	4,694	6,171	6,178	6,178	223,066	293,223	293,506	293,504	47.5	47.5	47.5	47.5
12	50	55	4,565	6,050	6,055	6,073	238,168	315,619	315,850	316,791	52.2	52.2	52.2	52.2
13	55	60	4,228	5,587	5,602	5,617	242,476	320,585	321,475	322,307	57.4	57.4	57.4	57.4
14	60	65	2,527	3,327	3,348	3,386	158,432	208,475	209,754	212,178	62.7	62.7	62.7	62.7
15	65	70	2,378	3,157	3,168	3,138	159,514	211,857	212,602	210,605	67.1	67.1	67.1	67.1
16	70	75	2,113	2,892	2,912	2,944	153,035	209,618	211,091	213,298	72.4	72.5	72.5	72.5
17	75	80	1,618	2,041	2,055	2,062	125,553	158,046	159,128	159,627	77.6	77.4	77.4	77.4
18	80	85	1,437	1,888	1,891	1,910	118,325	155,503	155,803	157,346	82.4	82.4	82.4	82.4
19	85	90	1,414	1,889	1,902	1,913	123,771	165,388	166,559	167,548	87.5	87.6	87.6	87.6
20	90	95	1,023	1,366	1,379	1,400	94,695	126,502	127,681	129,567	92.6	92.6	92.6	92.6
21	95	100	1,122	1,499	1,511	1,527	109,166	145,812	146,983	148,561	97.3	97.3	97.3	97.3
22	100	300	13,807	18,553	18,812	18,983	2,131,491	2,863,555	2,904,702	2,929,816	154.4	154.3	154.4	154.3
23	300	999	2,448	3,119	3,143	3,185	1,009,207	1,272,794	1,282,062	1,297,421	412.2	408.1	407.8	407.3
Total			671,388	693,374	693,689	693,748	9,121,610	11,119,462	11,179,287	11,240,334	13.6	16.0	16.1	16.2

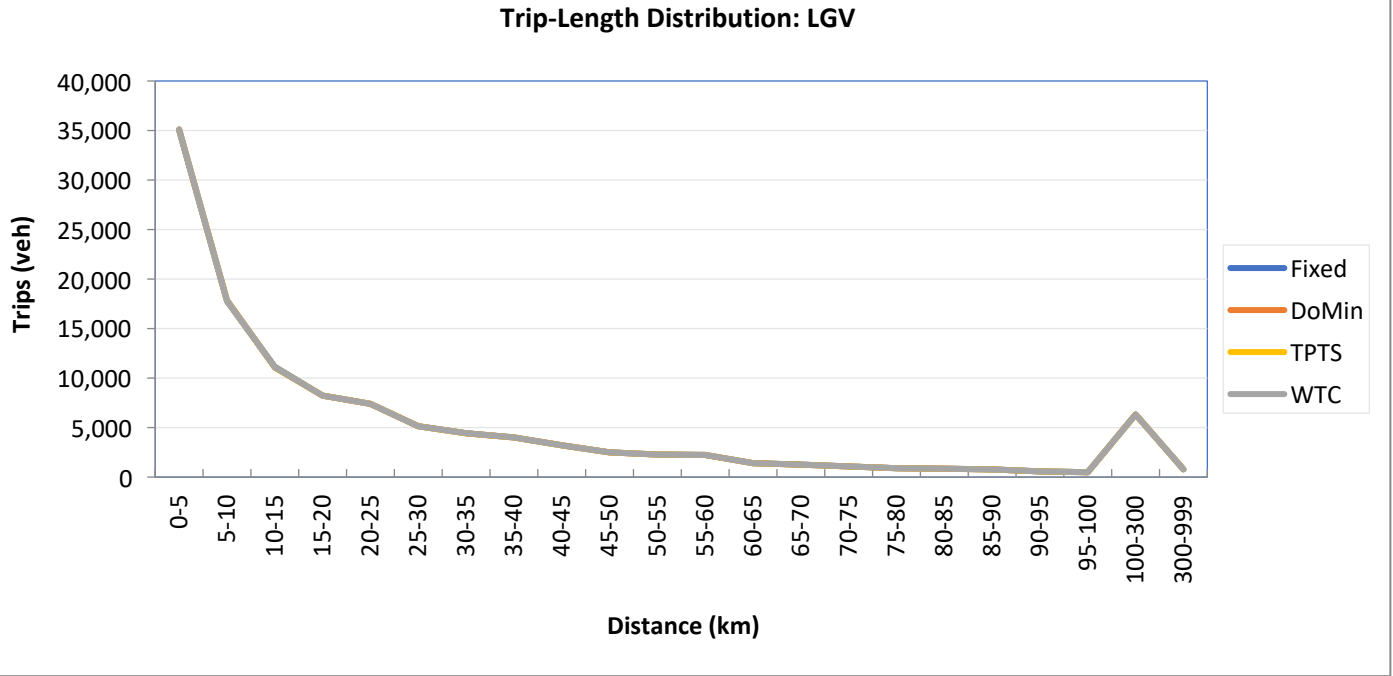


Mean TLD					
TLD	Fixed	DoMin	TPTS	WTC	
Mean (1)	13.6	16.0	16.1	16.2	without IZ trips
Mean (2)	8.6	10.4	10.5	10.5	with IZ trips

LGV

Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	58,145	35,010	17,768	11,144	8,235	7,390	5,146	4,435	4,011	3,222	2,503	2,285	2,238	1,404	1,268	1,079	897	848	783	576	494	6,333	784	
Do-Minimum Trips	58,095	35,111	17,880	11,064	8,224	7,403	5,137	4,426	3,997	3,212	2,497	2,275	2,239	1,407	1,255	1,078	896	854	775	574	493	6,324	783	
TPTS Only Ttips	58,143	35,094	17,831	11,081	8,234	7,404	5,131	4,419	4,006	3,203	2,495	2,275	2,237	1,406	1,257	1,077	897	846	775	579	492	6,332	783	
Optimised Package Trips	58,102	35,123	17,826	11,091	8,229	7,401	5,128	4,431	4,004	3,202	2,500	2,270	2,238	1,409	1,260	1,077	900	847	774	579	494	6,328	784	
Fixed Demand Veh.kms	0	81,375	129,488	137,069	143,136	165,547	140,954	144,429	150,267	135,925	119,054	119,730	128,614	87,754	85,195	78,076	69,465	69,855	68,345	53,250	48,070	996,871	287,284	
Do-Minimum Veh.kms	0	81,417	130,264	136,271	142,887	165,756	140,741	144,109	149,707	135,518	118,767	119,199	128,692	87,954	84,331	78,030	69,380	70,303	67,626	53,097	47,947	995,356	286,694	
TPTS Only Veh.kms	0	81,542	129,985	136,488	143,068	165,823	140,583	143,870	150,030	135,125	118,651	119,200	128,572	87,895	84,462	77,993	69,484	69,679	67,630	53,557	47,866	996,641	286,827	
Optimised Package Veh.kms	0	81,466	129,943	136,627	143,011	165,769	140,478	144,296	149,981	135,093	118,904	118,964	128,634	88,041	84,652	78,012	69,729	69,775	67,524	53,583	48,056	996,159	287,253	

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	58,145	58,095	58,143	58,102	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	35,010	35,111	35,094	35,123	81,375	81,417	81,542	81,466	2.3	2.3	2.3	2.3
3	5	10	17,768	17,880	17,831	17,826	129,488	130,264	129,985	129,943	7.3	7.3	7.3	7.3
4	10	15	11,144	11,064	11,081	11,091	137,069	136,271	136,488	136,627	12.3	12.3	12.3	12.3
5	15	20	8,235	8,224	8,234	8,229	143,136	142,887	143,068	143,011	17.4	17.4	17.4	17.4
6	20	25	7,390	7,403	7,404	7,401	165,547	165,756	165,823	165,769	22.4	22.4	22.4	22.4
7	25	30	5,146	5,137	5,131	5,128	140,954	140,741	140,583	140,478	27.4	27.4	27.4	27.4
8	30	35	4,435	4,426	4,419	4,431	144,429	144,109	143,870	144,296	32.6	32.6	32.6	32.6
9	35	40	4,011	3,997	4,006	4,004	150,267	149,707	150,030	149,981	37.5	37.5	37.5	37.5
10	40	45	3,222	3,212	3,203	3,202	135,925	135,518	135,125	135,093	42.2	42.2	42.2	42.2
11	45	50	2,503	2,497	2,495	2,500	119,054	118,767	118,651	118,904	47.6	47.6	47.6	47.6
12	50	55	2,285	2,275	2,275	2,270	119,730	119,199	119,200	118,964	52.4	52.4	52.4	52.4
13	55	60	2,238	2,239	2,237	2,238	128,614	128,692	128,572	128,634	57.5	57.5	57.5	57.5
14	60	65	1,404	1,407	1,406	1,409	87,754	87,954	87,895	88,041	62.5	62.5	62.5	62.5
15	65	70	1,268	1,255	1,257	1,260	85,195	84,331	84,462	84,652	67.2	67.2	67.2	67.2
16	70	75	1,079	1,078	1,077	1,077	78,076	78,030	77,993	78,012	72.4	72.4	72.4	72.4
17	75	80	897	896	897	900	69,465	69,380	69,484	69,729	77.4	77.4	77.4	77.4
18	80	85	848	854	846	847	69,855	70,303	69,679	69,775	82.3	82.3	82.3	82.3
19	85	90	783	775	775	774	68,345	67,626	67,630	67,524	87.2	87.2	87.2	87.2
20	90	95	576	574	579	579	53,250	53,097	53,557	53,583	92.5	92.5	92.5	92.5
21	95	100	494	493	492	494	48,070	47,947	47,866	48,056	97.4	97.4	97.4	97.4
22	100	300	6,333	6,324	6,332	6,328	996,871	995,356	996,641	996,159	157.4	157.4	157.4	157.4
23	300	999	784	783	783	784	287,284	286,694	286,827	287,253	366.3	366.2	366.2	366.3
Total			117,854	117,904	117,855	117,897	3,439,753	3,434,045	3,434,970	3,435,949	29.2	29.1	29.1	29.1



Mean TLD

TLD	Fixed	DoMin	TPTS	WTC
Mean (1)	29.2	29.1	29.1	29.1
Mean (2)	19.5	19.5	19.5	19.5

without IZ trips
with IZ trips

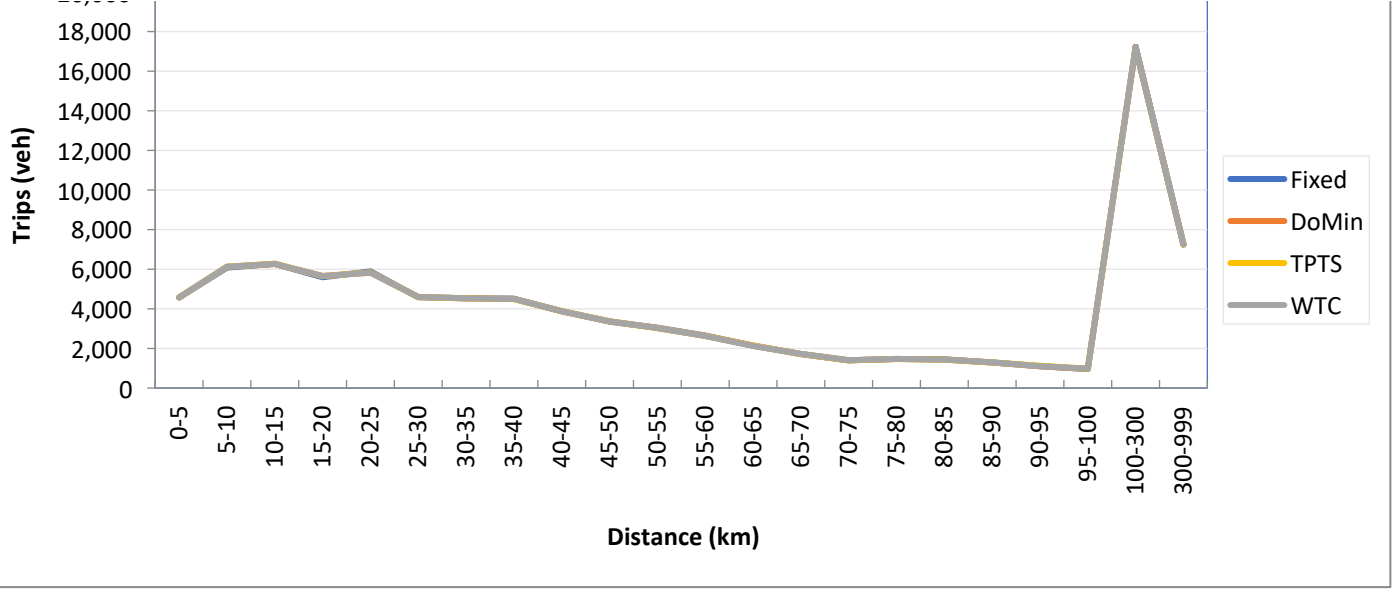
HGV

Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	4,995	4,568	6,083	6,270	5,594	5,892	4,587	4,537	4,513	3,882	3,353	3,047	2,654	2,138	1,716	1,399	1,472	1,451	1,291	1,106	959	17,227	7,254	
Do-Minimum Trips	4,995	4,578	6,129	6,264	5,658	5,831	4,601	4,522	4,504	3,872	3,367	3,036	2,636	2,147	1,722	1,401	1,469	1,443	1,293	1,101	963	17,210	7,246	
TPTS Only Ttips	4,995	4,575	6,125	6,281	5,648	5,844	4,591	4,535	4,490	3,888	3,371	3,023	2,636	2,148	1,717	1,398	1,467	1,433	1,290	1,129	980	17,172	7,249	
Optimised Package Trips	4,995	4,576	6,125	6,270	5,658	5,825	4,601	4,533	4,499	3,880	3,370	3,029	2,629	2,127	1,727	1,409	1,471	1,436	1,300	1,103	982	17,184	7,259	
Fixed Demand Veh.kms	0	12,953	46,586	77,500	97,574	132,102	125,746	147,850	169,195	164,356	159,365	159,993	152,597	133,745	115,427	101,429	114,070	119,398	112,654	102,353	93,408	2,984,704	3,133,839	
Do-Minimum Veh.kms	0	12,979	46,901	77,394	98,709	130,682	126,107	147,368	168,891	163,903	159,992	159,461	151,590	134,322	115,857	101,631	113,787	118,757	112,849	101,854	93,765	2,981,277	3,130,029	
TPTS Only Veh.kms	0	12,962	46,895	77,625	98,577	130,977	125,833	147,811	168,190	164,593	160,161	158,790	151,551	134,408	115,525	101,393	113,646	117,959	112,564	104,488	95,515	2,975,424	3,131,695	
Optimised Package Veh.kms	0	12,963	46,894	77,439	98,761	130,550	126,166	147,755	168,623	164,227	160,140	159,069	151,187	133,134	116,184	102,149	114,027	118,180	113,409	102,032	95,683	2,971,154	3,134,395	

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	4,995	4,995	4,995	4,995	0	0	0	0	0.0	0.0	0.0	0.0



2	0	5	4,568	4,578	4,575	4,576	12,953	12,979	12,962	12,963	2.8	2.8	2.8	2.8
3	5	10	6,083	6,129	6,125	6,125	46,586	46,901	46,895	46,894	7.7	7.7	7.7	7.7
4	10	15	6,270	6,264	6,281	6,270	77,500	77,394	77,625	77,439	12.4	12.4	12.4	12.4
5	15	20	5,594	5,658	5,648	5,658	97,574	98,709	98,577	98,761	17.4	17.4	17.5	17.5
6	20	25	5,892	5,831	5,844	5,825	132,102	130,682	130,977	130,550	22.4	22.4	22.4	22.4
7	25	30	4,587	4,601	4,591	4,601	125,746	126,107	125,833	126,166	27.4	27.4	27.4	27.4
8	30	35	4,537	4,522	4,535	4,533	147,850	147,368	147,811	147,755	32.6	32.6	32.6	32.6
9	35	40	4,513	4,504	4,490	4,499	169,195	168,891	168,190	168,623	37.5	37.5	37.5	37.5
10	40	45	3,882	3,872	3,888	3,880	164,356	163,903	164,593	164,227	42.3	42.3	42.3	42.3
11	45	50	3,353	3,367	3,371	3,370	159,365	159,992	160,161	160,140	47.5	47.5	47.5	47.5
12	50	55	3,047	3,036	3,023	3,029	159,993	159,461	158,790	159,069	52.5	52.5	52.5	52.5
13	55	60	2,654	2,636	2,636	2,629	152,597	151,590	151,551	151,187	57.5	57.5	57.5	57.5
14	60	65	2,138	2,147	2,148	2,127	133,745	134,322	134,408	133,134	62.6	62.6	62.6	62.6
15	65	70	1,716	1,722	1,717	1,727	115,427	115,857	115,525	116,184	67.3	67.3	67.3	67.3
16	70	75	1,399	1,401	1,398	1,409	101,429	101,631	101,393	102,149	72.5	72.5	72.5	72.5
17	75	80	1,472	1,469	1,467	1,471	114,070	113,787	113,646	114,027	77.5	77.5	77.5	77.5
18	80	85	1,451	1,443	1,433	1,436	119,398	118,757	117,959	118,180	82.3	82.3	82.3	82.3
19	85	90	1,291	1,293	1,290	1,300	112,654	112,849	112,564	113,409	87.3	87.3	87.3	87.3
20	90	95	1,106	1,101	1,129	1,103	102,353	101,854	104,488	102,032	92.5	92.5	92.5	92.5
21	95	100	959	963	980	982	93,408	93,765	95,515	95,683	97.4	97.4	97.5	97.4
22	100	300	17,227	17,210	17,172	17,184	2,984,704	2,981,277	2,975,424	2,971,154	173.3	173.2	173.3	172.9
23	300	999	7,254	7,246	7,249	7,259	3,133,839	3,130,029	3,131,695	3,134,395	432.0	431.9	432.0	431.8
Total			90,992	90,991	90,992	90,992	8,456,844	8,448,105	8,446,582	8,444,120	92.9	92.8	92.8	92.8



Mean TLD

TLD	Fixed	DoMin	TPTS	WTC
Mean (1)	92.9	92.8	92.8	92.8
Mean (2)	88.1	88.0	88.0	88.0

without IZ trips

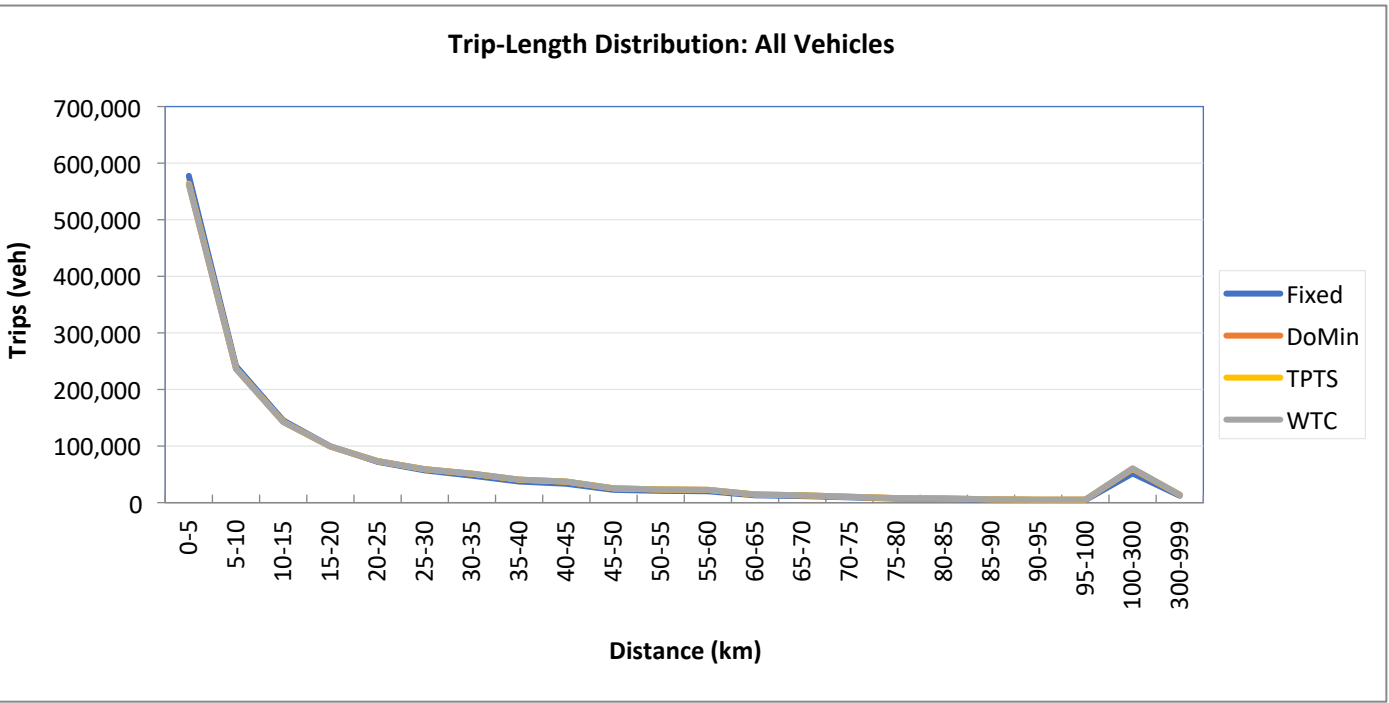
with IZ trips

TRIP-LENGTH DISTRIBUTION

All Vehicles

Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	661,220	577,487	241,289	145,304	99,488	72,186	57,042	47,673	37,288	33,372	22,637	20,868	20,150	12,936	11,645	9,349	7,082	6,580	5,208	4,598	4,579	51,625	12,294	
Do-Minimum Trips	636,302	564,164	236,736	142,963	99,098	73,481	59,073	51,087	40,680	37,115	25,294	23,257	22,572	14,383	12,977	10,376	7,976	7,311	5,855	5,166	5,212	59,471	13,824	
TPTS Only Ttips	635,986	563,272	237,239	142,748	99,115	73,430	59,061	51,123	40,531	37,169	25,281	23,238	22,575	14,454	13,007	10,468	7,961	7,389	5,916	5,209	5,270	60,122	13,888	
Optimised Package Trips	636,622	562,165	236,338	142,523	99,383	73,486	59,105	51,386	40,738	37,345	25,282	23,255	22,648	14,523	13,047	10,447	8,040	7,424	5,950	5,227	5,342	60,611	14,012	
Fixed Demand Veh.kms	0	1,193,752	1,761,929	1,786,680	1,728,015	1,616,457	1,563,847	1,559,856	1,395,459	1,407,032	1,075,191	1,092,512	1,154,803	810,166	783,082	676,619	548,409	542,221	455,313	425,293	445,307	8,320,450	5,078,365	
Do-Minimum Veh.kms	0	1,159,466	1,730,427	1,760,461	1,720,563	1,644,998	1,619,656	1,672,315	1,523,022	1,564,332	1,201,188	1,217,287	1,294,366	900,900	872,677	751,357	617,807	602,604	511,994	477,856	506,832	9,597,945	5,670,929	
TPTS Only Veh.kms	0	1,157,098	1,733,252	1,757,483	1,720,860	1,643,571	1,619,336	1,673,408	1,517,164	1,566,538	1,200,682	1,216,394	1,294,571	905,271	874,734	757,950	616,572	609,152	517,376	481,784	512,409	9,689,206	5,694,415	
Optimised Package Veh.kms	0	1,157,799	1,728,594	1,755,185	1,726,158	1,645,021	1,620,838	1,681,662	1,525,167	1,574,159	1,200,766	1,217,207	1,298,747	909,521	877,378	756,409	622,722	612,073	520,252	483,356	519,400	9,753,340	5,741,364	

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	661,220	636,302	635,986	636,622	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	577,487	564,164	563,272	562,165	1,193,752	1,159,466	1,157,098	1,157,799	2.1	2.1	2.1	2.1
3	5	10	241,289	236,736	237,239	236,338	1,761,929	1,730,427	1,733,252	1,728,594	7.3	7.3	7.3	7.3
4	10	15	145,304	142,963	142,748	142,523	1,786,680	1,760,461	1,757,483	1,755,185	12.3	12.3	12.3	12.3
5	15	20	99,488	99,098	99,115	99,383	1,728,015	1,720,563	1,720,860	1,726,158	17.4	17.4	17.4	17.4
6	20	25	72,186	73,481	73,430	73,486	1,616,457	1,644,998	1,643,571	1,645,021	22.4	22.4	22.4	22.4
7	25	30	57,042	59,073	59,061	59,105	1,563,847	1,619,656	1,619,336	1,620,838	27.4	27.4	27.4	27.4
8	30	35	47,673	51,087	51,123	51,386	1,559,856	1,672,315	1,673,408	1,681,662	32.7	32.7	32.7	32.7
9	35	40	37,288	40,680	40,531	40,738	1,395,459	1,523,022	1,517,164	1,525,167	37.4	37.4	37.4	37.4
10	40	45	33,372	37,115	37,169	37,345	1,407,032	1,564,332	1,566,538	1,574,159	42.2	42.1	42.1	42.2
11	45	50	22,637	25,294	25,281	25,282	1,075,191	1,201,188	1,200,682	1,200,766	47.5	47.5	47.5	47.5
12	50	55	20,868	23,257	23,238	23,255	1,092,512	1,217,287	1,216,394	1,217,207	52.4	52.3	52.3	52.3
13	55	60	20,150	22,572	22,575	22,648	1,154,803	1,294,366	1,294,571	1,298,747	57.3	57.3	57.3	57.3
14	60	65	12,936	14,383	14,454	14,523	810,166	900,900	905,271	909,521	62.6	62.6	62.6	62.6
15	65	70	11,645	12,977	13,007	13,047	783,082	872,677	874,734	877,378	67.2	67.2	67.3	67.2
16	70	75	9,349	10,376	10,468	10,447	676,619	751,357	757,950	756,409	72.4	72.4	72.4	72.4
17	75	80	7,082	7,976	7,961	8,040	548,409	617,807	616,572	622,722	77.4	77.5	77.5	77.4
18	80	85	6,580	7,311	7,389	7,424	542,221	602,604	609,152	612,073	82.4	82.4	82.4	82.4
19	85	90	5,208	5,855	5,916	5,950	455,313	511,994	517,376	520,252	87.4	87.4	87.4	87.4
20	90	95	4,598	5,166	5,209	5,227	425,293	477,856	481,784	483,356	92.5	92.5	92.5	92.5
21	95	100	4,579	5,212	5,270	5,342	445,307	506,832	512,409	519,400	97.2	97.2	97.2	97.2
22	100	300	51,625	59,471	60,122	60,611	8,320,450	9,597,945	9,689,206	9,753,340	161.2	161.4	161.2	160.9
23	300	999	12,294	13,824	13,888	14,012	5,078,365	5,670,929	5,694,415	5,741,364	413.1	410.2	410.0	409.8
Total			1,500,680	1,518,071	1,518,467	1,518,279	35,420,761	38,618,983	38,759,226	38,927,117	23.6	25.4	25.5	25.6



Mean TLD

TLD	Fixed	DoMin	TPTS	WTC
Mean (1)	23.6	25.4	25.5	25.6
Mean (2)	16.4	17.9	18.0	18.1

without IZ trips
with IZ trips

Business

Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	29,961	28,402	18,059	14,182	10,083	7,206	5,607	5,101	4,151	3,731	2,966	2,949	2,590	2,279	2,048	1,691	1,235	1,071	930	900	897	11,462	2,924	
Do-Minimum Trips	25,990	24,939	16,029	12,750	9,121	6,854	5,522	5,621	4,997	4,625	3,634	3,611	3,197	2,809	2,534	1,984	1,528	1,323	1,127	1,093	1,104	14,342	3,667	
TPTS Only Ttips	25,845	24,728	15,976	12,666	9,076	6,795	5,503	5,597	4,939	4,608	3,627	3,597	3,203	2,820	2,545	2,009	1,508	1,358	1,146	1,100	1,142	14,677	3,685	
Optimised Package Trips	25,789	24,639	15,832	12,588	9,157	6,705	5,490	5,627	4,943	4,631	3,616	3,592	3,246	2,831	2,513	2,021	1,535	1,372	1,163	1,089	1,189	14,881	3,736	
Fixed Demand Veh.kms	0	63,184	134,425	175,584	175,567	161,335	153,879	166,084	155,431	157,492	140,842	154,824	148,726	142,578	137,878	122,295	95,600	88,301	81,369	83,315	87,236	1,917,363	1,153,648	
Do-Minimum Veh.kms	0	55,313	119,423	157,938	158,612	153,354	151,811	183,295	187,188	195,290	172,543	189,541	183,568	175,788	170,645	143,623	118,367	109,003	98,577	101,210	107,384	2,408,994	1,436,818	
TPTS Only Veh.kms	0	54,810	118,920	156,919	157,810	151,909	151,274	182,447	185,013	194,528	172,189	188,858	183,949	176,353	171,424	145,374	116,775	111,922	100,186	101,810	110,995	2,453,426	1,443,726	
Optimised Package Veh.kms	0	54,833	118,048	155,924	159,406	150,105	150,937	183,420	185,196	195,550	171,637	188,528	186,464	177,033	169,175	146,216	118,881	113,050	101,677	100,711	115,570	2,481,058	1,463,116	

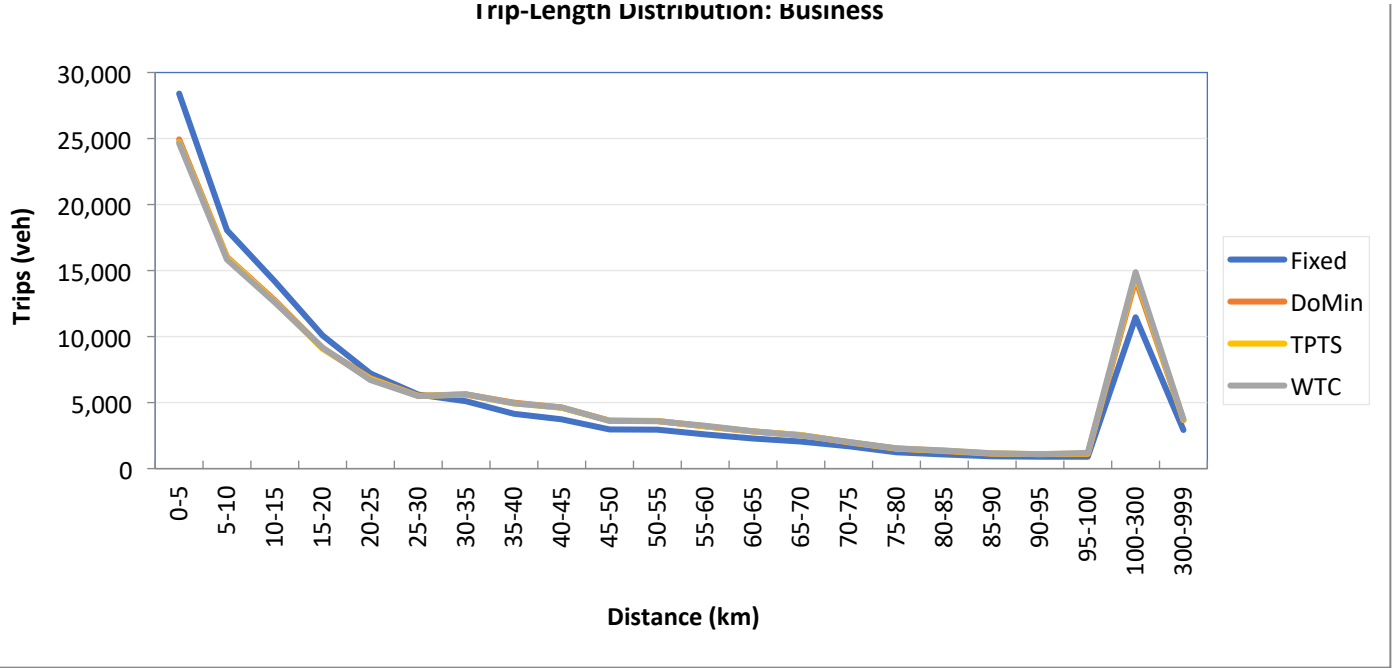
Band	Distance (km)	Trips (veh)	Trip.kms	Average Length (km)	Trip Length Distribution: Business
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Distance	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	29,961	25,990	25,845	25,789	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	28,402	24,939	24,728	24,639	63,184	55,313	54,810	54,833	2.2	2.2	2.2	2.2
3	5	10	18,059	16,029	15,976	15,832	134,425	119,423	118,920	118,048	7.4	7.5	7.4	7.5
4	10	15	14,182	12,750	12,666	12,588	175,584	157,938	156,919	155,924	12.4	12.4	12.4	12.4
5	15	20	10,083	9,121	9,076	9,157	175,567	158,612	157,810	159,406	17.4	17.4	17.4	17.4
6	20	25	7,206	6,854	6,795	6,705	161,335	153,354	151,909	150,105	22.4	22.4	22.4	22.4
7	25	30	5,607	5,522	5,503	5,490	153,879	151,811	151,274	150,937	27.4	27.5	27.5	27.5
8	30	35	5,101	5,621	5,597	5,627	166,084	183,295	182,447	183,420	32.6	32.6	32.6	32.6
9	35	40	4,151	4,997	4,939	4,943	155,431	187,188	185,013	185,196	37.4	37.5	37.5	37.5
10	40	45	3,731	4,625	4,608	4,631	157,492	195,290	194,528	195,550	42.2	42.2	42.2	42.2
11	45	50	2,966	3,634	3,627	3,616	140,842	172,543	172,189	171,637	47.5	47.5	47.5	47.5
12	50	55	2,949	3,611	3,597	3,592	154,824	189,541	188,858	188,528	52.5	52.5	52.5	52.5
13	55	60	2,590	3,197	3,203	3,246	148,726	183,568	183,949	186,464	57.4	57.4	57.4	57.4
14	60	65	2,279	2,809	2,820	2,831	142,578	175,788	176,353	177,033	62.6	62.6	62.5	62.5
15	65	70	2,048	2,534	2,545	2,513	137,878	170,645	171,424	169,175	67.3	67.3	67.4	67.3
16	70	75	1,691	1,984	2,009	2,021	122,295	143,623	145,374	146,216	72.3	72.4	72.4	72.3
17	75	80	1,235	1,528	1,508	1,535	95,600	118,367	116,775	118,881	77.4	77.5	77.4	77.4
18	80	85	1,071	1,323	1,358	1,372	88,301	109,003	111,922	113,050	82.4	82.4	82.4	82.4
19	85	90	930	1,127	1,146	1,163	81,369	98,577	100,186	101,677	87.5	87.5	87.5	87.4
20	90	95	900	1,093	1,100	1,089	83,315	101,210	101,810	100,711	92.6	92.6	92.5	92.5
21	95	100	897	1,104	1,142	1,189	87,236	107,384	110,995	115,570	97.3	97.3	97.2	97.2
22	100	300	11,462	14,342	14,677	14,881	1,917,363	2,408,994	2,453,426	2,481,058	167.3	168.0	167.2	166.7
23	300	999	2,924	3,667	3,685	3,736	1,153,648	1,436,818	1,443,726	1,463,116	394.6	391.8	391.8	391.7
Total			130,462	132,413	132,304	132,396	5,696,953	6,778,282	6,830,617	6,886,534	43.7	51.2	51.6	52.0

Commute

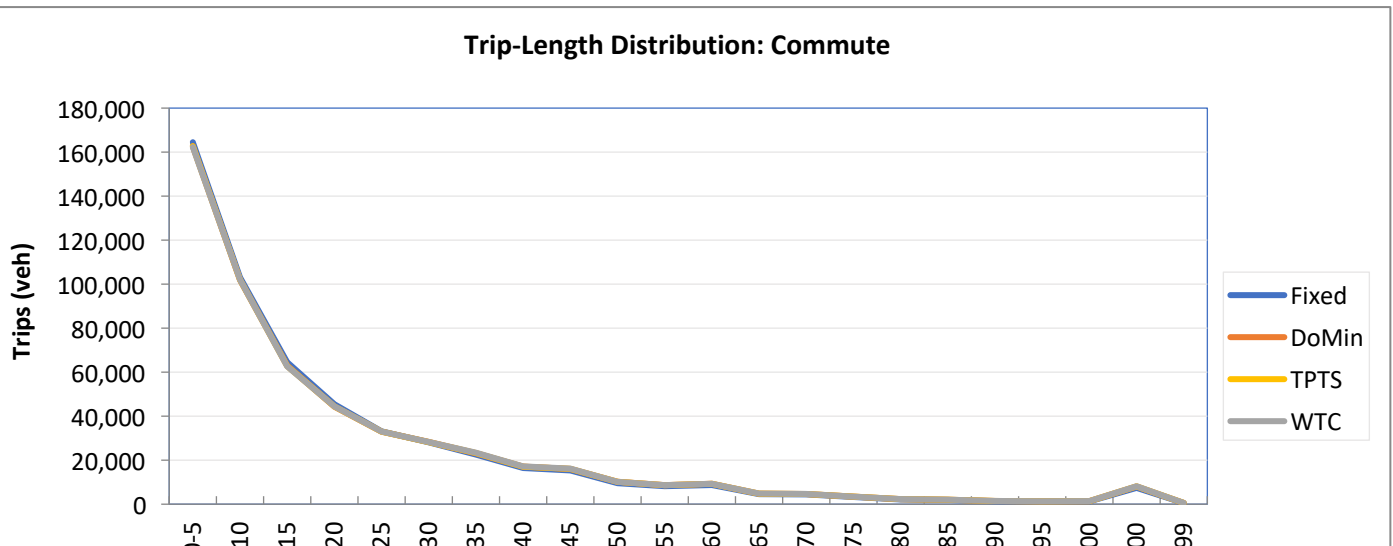
Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	97,293	164,499	103,088	64,513	45,434	33,106	28,116	22,536	16,438	15,337	9,545	8,184	8,710	4,565	4,446	3,274	2,140	1,946	1,355	1,234	1,275	7,414	520	
Do-Minimum Trips	95,129	162,680	101,904	62,983	44,308	32,962	28,303	23,151	17,100	16,022	10,199	8,651	9,288	4,782	4,628	3,452	2,303	2,033	1,462	1,322	1,386	8,046	551	
TPTS Only Tips	95,140	162,723	102,034	62,749	44,437	32,973	28,209	23,255	17,016	16,062	10,178	8,637	9,256	4,790	4,622	3,459	2,308	2,041	1,471	1,319	1,390	8,112	555	
Optimised Package Trips	95,202	162,269	101,995	62,628	44,451	33,009	28,286	23,405	17,182	16,175	10,158	8,665	9,274	4,832	4,668	3,432	2,326	2,049	1,470	1,334	1,406	8,158	557	
Fixed Demand Veh.kms	0	368,525	756,750	793,749	790,493	743,452	770,984	737,143	614,627	646,139	453,055	427,835	497,504	286,131	298,890	236,867	165,682	160,426	118,499	113,854	123,844	1,036,974	201,424	
Do-Minimum Veh.kms	0	362,229	748,746	776,985	770,440	739,741	775,689	757,619	639,640	674,698	484,055	452,227	531,167	299,791	311,037	249,800	178,450	167,727	127,909	121,934	134,666	1,125,434	213,413	
TPTS Only Veh.kms	0	362,231	749,717	773,623	772,476	739,875	773,167	760,860	636,371	676,393	483,152	451,573	529,319	300,366	310,689	250,375	178,842	168,454	128,748	121,657	135,058	1,135,017	214,626	
Optimised Package Veh.kms	0	361,810	749,917	772,427	773,172	740,644	775,408	765,540	642,661	681,281	482,310	453,017	530,329	302,928	313,674	248,460	180,253	169,063	128,575	123,020	136,618	1,141,654	215,742	

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	97,293	95,129	95,140	95,202	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	164,499	162,680	162,723	162,269	368,525	362,229	362,231	361,810	2.2	2.2	2.2	2.2
3	5	10	103,088	101,904	102,034	101,995	756,750	748,746	749,717	749,917	7.3	7.3	7.3	7.4
4	10	15	64,513	62,983	62,749	62,628	793,749	776,985	773,623	772,427	12.3	12.3	12.3	12.3
5	15	20	45,434	44,308	44,437	44,451	790,493	770,440	772,476	773,172	17.4	17.4	17.4	17.4
6	20	25	33,106	32,962	32,973	33,009	743,452	739,741	739,875	740,644	22.5	22.4	22.4	22.4
7	25	30	28,116	28,303	28,209	28,286	770,984	775,689	773,167	775,408	27.4	27.4	27.4	27.4
8	30	35	22,536	23,151	23,255	23,405	737,143	757,619	760,860	765,540	32.7	32.7	32.7	32.7
9	35	40	16,438	17,100	17,016	17,182	614,627	639,640	636,371	642,661	37.4	37.4	37.4	37.4
10	40	45	15,337	16,022	16,062	16,175	646,139	674,698	676,393	681,281	42.1	42.1	42.1	42.1
11	45	50	9,545	10,199	10,178	10,158	453,055	484,055	483,152	482,310	47.5	47.5	47.5	47.5
12	50	55	8,184	8,651	8,637	8,665	427,835	452,227	451,573	453,017	52.3	52.3	52.3	52.3

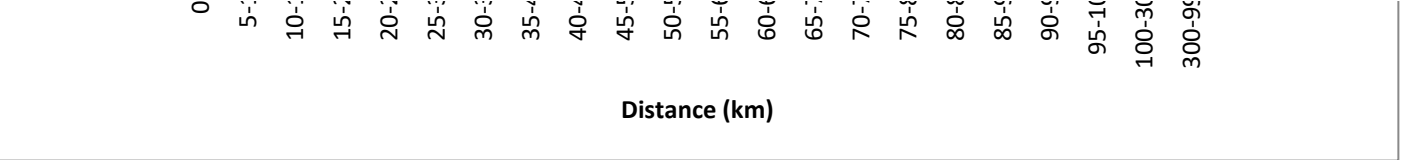


Mean TLD

TLD	Fixed	DoMin	TPTS	WTC	
Mean (1)	43.7	51.2	51.6	52.0	without IZ trips
Mean (2)	35.5	42.8	43.2	43.5	with IZ trips



13	55	60	8,710	9,288	9,256	9,274	497,504	531,167	529,319	530,329	57.1	57.2	57.2	57.2
14	60	65	4,565	4,782	4,790	4,832	286,131	299,791	300,366	302,928	62.7	62.7	62.7	62.7
15	65	70	4,446	4,628	4,622	4,668	298,890	311,037	310,689	313,674	67.2	67.2	67.2	67.2
16	70	75	3,274	3,452	3,459	3,432	236,867	249,800	250,375	248,460	72.3	72.4	72.4	72.4
17	75	80	2,140	2,303	2,308	2,326	165,682	178,450	178,842	180,253	77.4	77.5	77.5	77.5
18	80	85	1,946	2,033	2,041	2,049	160,426	167,727	168,454	169,063	82.4	82.5	82.5	82.5
19	85	90	1,355	1,462	1,471	1,470	118,499	127,909	128,748	128,575	87.5	87.5	87.5	87.5
20	90	95	1,234	1,322	1,319	1,334	113,854	121,934	121,657	123,020	92.3	92.2	92.3	92.2
21	95	100	1,275	1,386	1,390	1,406	123,844	134,666	135,058	136,618	97.2	97.2	97.2	97.1
22	100	300	7,414	8,046	8,112	8,158	1,036,974	1,125,434	1,135,017	1,141,654	139.9	139.9	139.9	139.9
23	300	999	520	551	555	557	201,424	213,413	214,626	215,742	387.2	387.1	387.0	387.1
Total			547,675	547,514	547,596	547,730	10,342,847	10,643,394	10,652,587	10,688,503	18.9	19.4	19.5	19.5



Mean TLD

TLD	Fixed	DoMin	TPTS	WTC
Mean (1)	18.9	19.4	19.5	19.5
Mean (2)	16.0	16.6	16.6	16.6

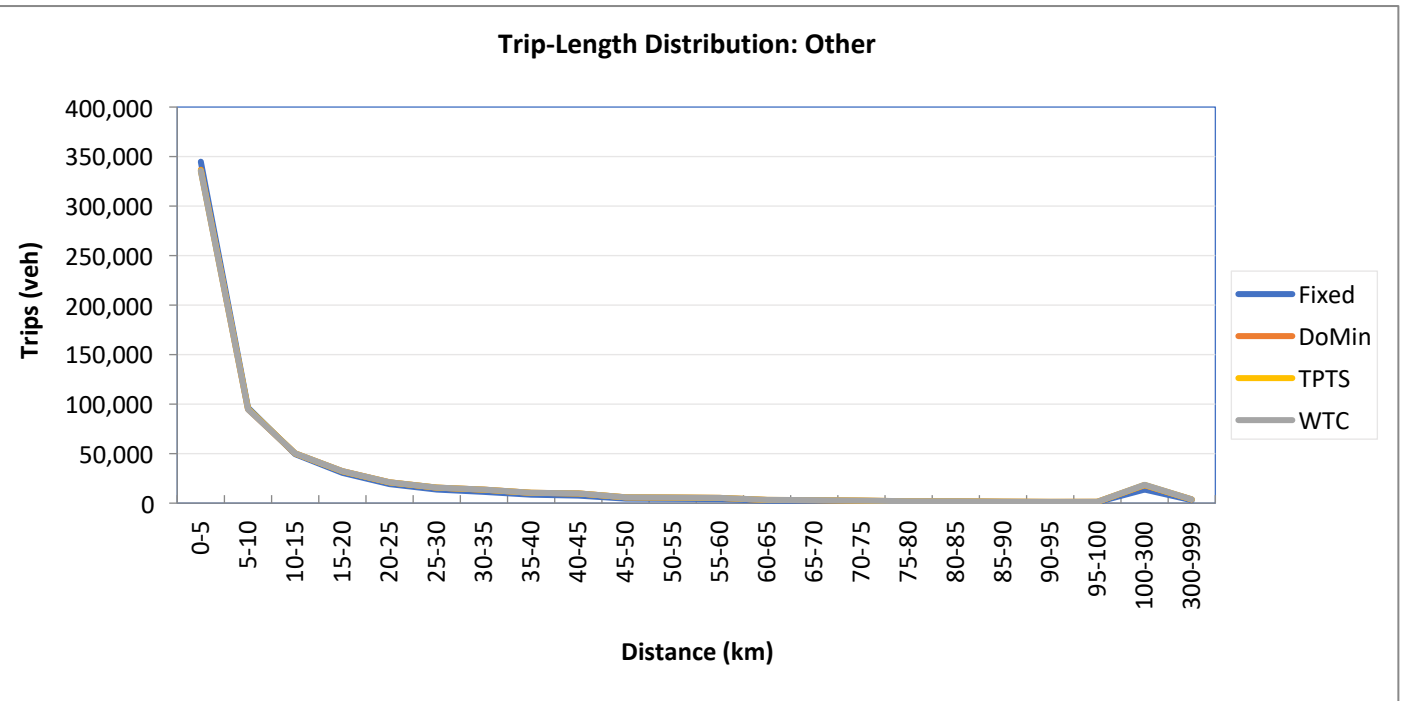
without IZ trips

with IZ trips

Other

Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	475,873	344,824	96,383	49,455	30,590	19,211	13,710	11,373	8,530	7,619	4,569	4,371	4,116	2,498	2,337	1,991	1,442	1,422	1,137	978	1,030	13,733	2,966	
Do-Minimum Trips	457,064	336,704	94,915	50,188	32,272	21,034	15,650	13,642	10,452	9,830	5,897	5,650	5,293	3,229	3,022	2,540	1,875	1,826	1,469	1,276	1,338	18,079	3,728	
TPTS Only Ttips	456,869	336,072	95,314	50,260	32,214	21,010	15,730	13,612	10,466	9,833	5,914	5,668	5,313	3,290	3,048	2,586	1,901	1,845	1,498	1,296	1,346	18,362	3,767	
Optimised Package Trips	457,496	335,437	94,668	50,298	32,355	21,089	15,738	13,704	10,478	9,882	5,926	5,676	5,326	3,305	3,067	2,589	1,924	1,866	1,518	1,307	1,383	18,570	3,831	
Fixed Demand Veh.kms	0	668,305	695,516	605,522	529,093	428,009	375,995	373,706	319,491	320,392	217,234	228,284	236,093	156,521	156,786	144,269	111,666	117,331	99,433	90,631	100,143	2,177,080	1,238,569	
Do-Minimum Veh.kms	0	648,122	686,232	615,111	558,486	469,096	429,527	448,127	391,644	413,460	280,219	295,073	303,698	202,339	202,832	184,110	145,180	150,668	128,553	118,224	130,017	2,874,671	1,538,413	
TPTS Only Veh.kms	0	646,536	688,484	616,149	557,708	468,491	431,694	447,185	392,162	413,568	280,995	296,017	304,860	206,115	204,603	187,419	147,185	152,235	131,063	120,103	130,841	2,916,652	1,553,025	
Optimised Package Veh.kms	0	647,379	684,913	616,860	560,238	470,336	431,988	450,132	392,631	415,645	281,579	296,439	305,592	207,046	205,893	187,626	148,923	153,959	132,809	121,081	134,407	2,946,816	1,577,625	

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	475,873	457,064	456,869	457,496	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	344,824	336,704	336,072	335,437	668,305	648,122	646,536	647,379	1.9	1.9	1.9	1.9
3	5	10	96,383	94,915	95,314	94,668	695,516	686,232	688,484	684,913	7.2	7.2	7.2	7.2
4	10	15	49,455	50,188	50,260	50,298	605,522	615,111	616,149	616,860	12.2	12.3	12.3	12.3
5	15	20	30,590	32,272	32,214	32,355	529,093	558,486	557,708	560,238	17.3	17.3	17.3	17.3
6	20	25	19,211	21,034	21,010	21,089	428,009	469,096	468,491	470,336	22.3	22.3	22.3	22.3
7	25	30	13,710	15,650	15,730	15,738	375,995	429,527	431,694	431,988	27.4	27.4	27.4	27.4
8	30	35	11,373	13,642	13,612	13,704	373,706	448,127	447,185	450,132	32.9	32.8	32.9	32.8
9	35	40	8,530	10,452	10,466	10,478	319,491	391,644	392,162	392,631	37.5	37.5	37.5	37.5
10	40	45	7,619	9,830	9,833	9,882	320,392	413,460	413,568	415,645	42.1	42.1	42.1	42.1
11	45	50	4,569	5,897	5,914	5,926	217,234	280,219	280,995	281,579	47.5	47.5	47.5	47.5
12	50	55	4,371	5,650	5,668	5,676	228,284	295,073	296,017	296,439	52.2	52.2	52.2	52.2
13	55	60	4,116	5,293	5,313	5,326	236,093	303,698	304,860	305,592	57.4	57.4	57.4	57.4
14	60	65	2,498	3,229	3,290	3,305	156,521	202,339	206,115	207,046	62.7	62.7	62.6	62.6
15	65	70	2,337	3,022	3,048	3,067	156,786	202,832	204,603	205,893	67.1	67.1	67.1	67.1
16	70	75	1,991	2,540	2,586	2,589	144,269	184,110	187,419	187,626	72.5	72.5	72.5	72.5
17	75	80	1,442	1,875	1,901	1,924	111,666	145,180	147,185	148,923	77.4	77.4	77.4	77.4
18	80	85	1,422	1,826	1,845	1,866	117,331	150,668	152,235	153,959	82.5	82.5	82.5	82.5
19	85	90	1,137	1,469	1,498	1,518	99,433	128,553	131,063	132,809	87.5	87.5	87.5	87.5
20	90	95	978	1,276	1,296	1,307	90,631	118,224	120,103	121,081	92.6	92.6	92.6	92.6
21	95	100	1,030	1,338	1,346	1,383	100,143	130,017	130,841	134,407	97.2	97.2	97.2	97.2
22	100	300	13,733	18,079	18,362	18,570	2,177,080	2,874,671	2,916,652	2,946,816	158.5	159.0	158.8	158.7
23	300	999	2,966	3,728	3,767	3,831	1,238,569	1,538,413	1,553,025	1,577,625	417.6	412.7	412.3	411.8
Total			624,285	639,911	640,346	639,936	9,390,068	11,213,803	11,293,091	11,369,917	15.0	17.5	17.6	17.8



Mean TLD

TLD	Fixed	DoMin	TPTS	WTC
Mean (1)	15.0	17.5	17.6	17.8
Mean (2)	8.5	10.2	10.3	10.4

without IZ trips

with IZ trips

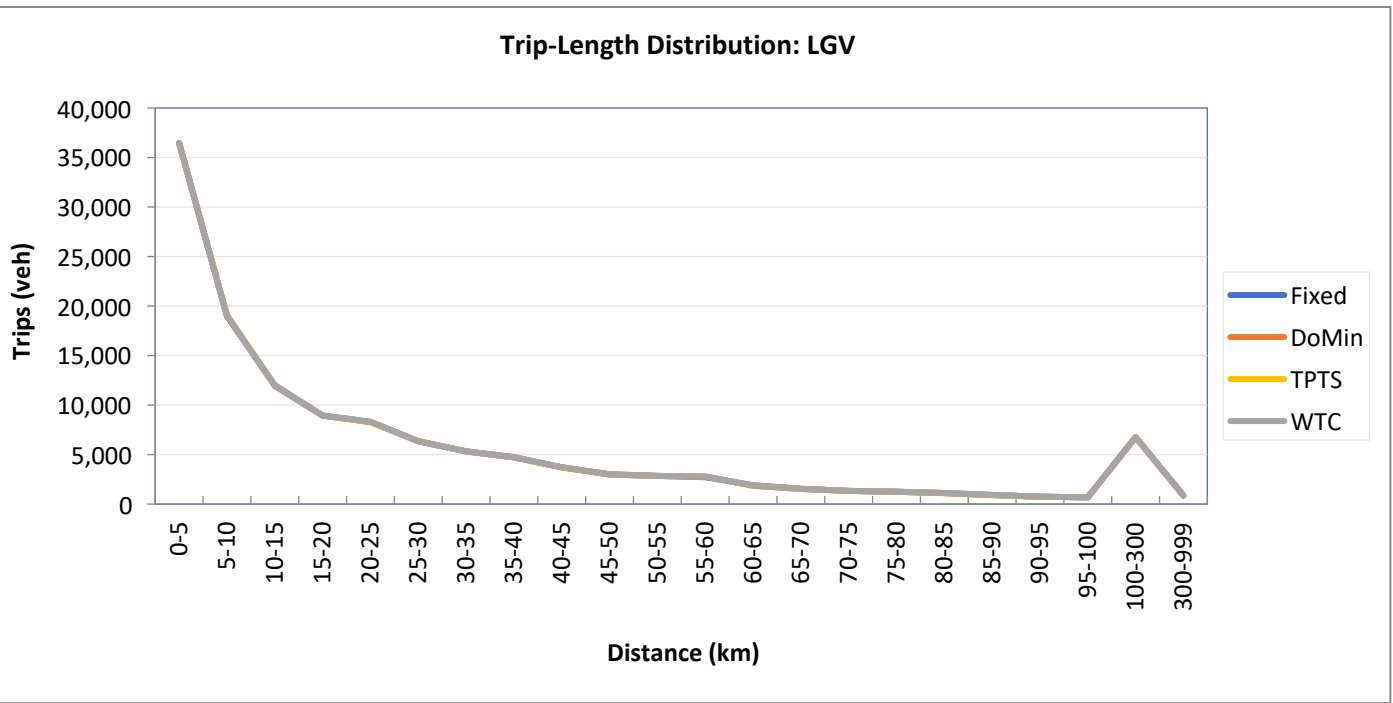
Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	54,650	36,440	18,969	12,011	8,953	8,309	6,345	5,326	4,751	3,714	3,021	2,852	2,716	1,909	1,554	1,331	1,247	1,119	913	749	680	6,767	862	
Do-Minimum Trips	54,674	36,482	19,075	11,935	8,938	8,279	6,356	5,339	4,714	3,708	2,983	2,849	2,792	1,864	1,532	1,335	1,257	1,106	921	744	688	6,755	862	
TPTS Only Ttips	54,687	36,399	19,100	11,970	8,934	8,292	6,360	5,319	4,714	3,716	2,995	2,845	2,795	1,856	1,531	1,338	1,242	1,127	928	743	685	6,749	862	
Optimised Package Trips	54,691	36,468	19,036	11,937	8,929	8,320	6,350	5,316	4,716	3,730	2,987	2,836	2,792	1,866	1,538	1,337	1,242	1,119	924	746	685	6,760	862	
Fixed Demand Veh.kms	0	84,214	138,459	147,965	155,485	185,785	173,243	174,147	177,941	157,039	143,557	149,406	156,414	119,382	104,637	96,355	96,483	92,122	79,829	69,304	66,170	1,059,269	321,594	
Do-Minimum Veh.kms	0	84,172	139,109	147,065	155,183	185,125	173,563	174,596	176,590	156,787	141,773	149,148	160,866	116,642	103,222	96,623	97,317	91,056	80,510	68,897	66,940	1,058,058	321,614	
TPTS Only Veh.kms	0	83,884	139,207	147,457	155,124	185,455	173,643	173,952	176,520	157,081	142,336	148,980	161,024	116,122	103,137	96,825	96,190	92,780	81,141	68,713	66,659	1,057,492	321,702	
Optimised Package Veh.kms	0	84,155	138,870	147,080	154,979	186,054	173,421	173,839	176,580	157,681	141,975	148,529	160,812	116,724	103,621	96,728	96,192	92,138	80,748	69,006	66,650	1,058,249	321,555	

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	54,650	54,674	54,687	54,691	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	36,440	36,482	36,399	36,468	84,214	84,172	83,884	84,155	2.3	2.3	2.3	2.3
3	5	10	18,969	19,075	19,100	19,036	138,459	139,109	139,207	138,870	7.3	7.3	7.3	7.3
4	10	15	12,011	11,935	11,970	11,937	147,965	147,065	147,457	147,080	12.3	12.3	12.3	12.3
5	15	20	8,953	8,938	8,934	8,929	155,485	155,183	155,124	154,979	17.4	17.4	17.4	17.4
6	20	25	8,309	8,279	8,292	8,320	185,785	185,125	185,455	186,054	22.4	22.4	22.4	22.4
7	25	30	6,345	6,356	6,360	6,350	173,243	173,563	173,643	173,421	27.3	27.3	27.3	27.3
8	30	35	5,326	5,339	5,319	5,316	174,147	174,596	173,952	173,839	32.7	32.7	32.7	32.7
9	35	40	4,751	4,714	4,714	4,716	177,941	176,590	176,520	176,580	37.5	37.5	37.4	37.4
10	40	45	3,714	3,708	3,716	3,730	157,039	156,787	157,081	157,681	42.3	42.3	42.3	42.3
11	45	50	3,021	2,983	2,995	2,987	143,557	141,773	142,336	141,975	47.5	47.5	47.5	47.5
12	50	55	2,852	2,849	2,845	2,836	149,406	149,148	148,980	148,529	52.4	52.4	52.4	52.4
13	55	60	2,716	2,792	2,795	2,792	156,414	160,866	161,024	160,812	57.6	57.6	57.6	57.6
14	60	65	1,909	1,864	1,856	1,866	119,382	116,642	116,122	116,724	62.5	62.6	62.6	62.6
15	65	70	1,554	1,532	1,531	1,538	104,637	103,222	103,137	103,621	67.3	67.4	67.3	67.4
16	70	75	1,331	1,335	1,338	1,337	96,355	96,623	96,825	96,728	72.4	72.4	72.4	72.4
17	75	80	1,247	1,257	1,242	1,242	96,483	97,317	96,190	96,192	77.4	77.4	77.4	77.4
18	80	85	1,119	1,106	1,127	1,119	92,122	91,056	92,780	92,138	82.3	82.3	82.3	82.3
19	85	90	913	921	928	924	79,829	80,510	81,141	80,748	87.4	87.4	87.4	87.4
20	90	95	749	744	743	746	69,304	68,897	68,713	69,006	92.5	92.6	92.5	92.5
21	95	100	680	688	685	685	66,170	66,940	66,659	66,650	97.3	97.4	97.4	97.4
22	100	300	6,767	6,755	6,749	6,760	1,059,269	1,058,058	1,057,492	1,058,249	156.5	156.6	156.7	156.5
23	300	999	862	862	862	862	321,594	321,614	321,702	321,555	373.1	373.1	373.1	373.2
Total			130,538	130,514	130,501	130,497	3,948,800	3,944,856	3,945,425	3,945,586	30.3	30.2	30.2	30.2

HGV

Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	3,443	3,322	4,791	5,143	4,428	4,356	3,265	3,336	3,418	2,971	2,536	2,512	2,018	1,686	1,261	1,061	1,019	1,020	873	737	698	12,248	5,022	
Do-Minimum Trips	3,444	3,359	4,812	5,107	4,460	4,354	3,241	3,334	3,417	2,929	2,581	2,497	2,001	1,698	1,261	1,065	1,013	1,022	876	730	697	12,249	5,016	
TPTS Only Ttips	3,444	3,350	4,816	5,103	4,455	4,360	3,259	3,341	3,397	2,950	2,568	2,490	2,007	1,698	1,260	1,076	1,001	1,017	873	751	707	12,223	5,018	
Optimised Package Trips	3,443	3,353	4,806	5,072	4,491	4,363	3,241	3,333	3,419	2,927	2,595	2,485	2,009	1,689	1,262	1,068	1,013	1,018	876	751	680	12,243	5,026	
Fixed Demand Veh.kms	0	9,525	36,780	63,860	77,377	97,876	89,746	108,777	127,969	125,971	120,503	132,164	116,066	105,554	84,892	76,834	78,979	84,041	76,183	68,189	67,914	2,129,765	2,163,130	
Do-Minimum Veh.kms	0	9,631	36,918	63,363	77,842	97,683	89,066	108,678	127,960	124,096	122,598	131,298	115,067	106,340	84,942	77,202	78,494	84,150	76,446	67,591	67,824	2,130,787	2,160,672	
TPTS Only Veh.kms	0	9,636	36,923	63,336	77,742	97,841	89,558	108,964	127,097	124,967	122,010	130,967	115,419	106,315	84,880	77,957	77,580	83,760	76,238	69,502	68,856	2,126,620	2,161,337	
Optimised Package Veh.kms	0	9,623	36,846	62,893	78,363	97,883	89,084	108,731	128,099	124,002	123,265	130,694	115,549	105,790	85,015	77,379	78,473	83,863	76,444	69,538	66,154	2,125,564	2,163,325	

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	3,443	3,444	3,444	3,443	0	0	0	0	0.0	0.0	0.0	0.0



Mean TLD

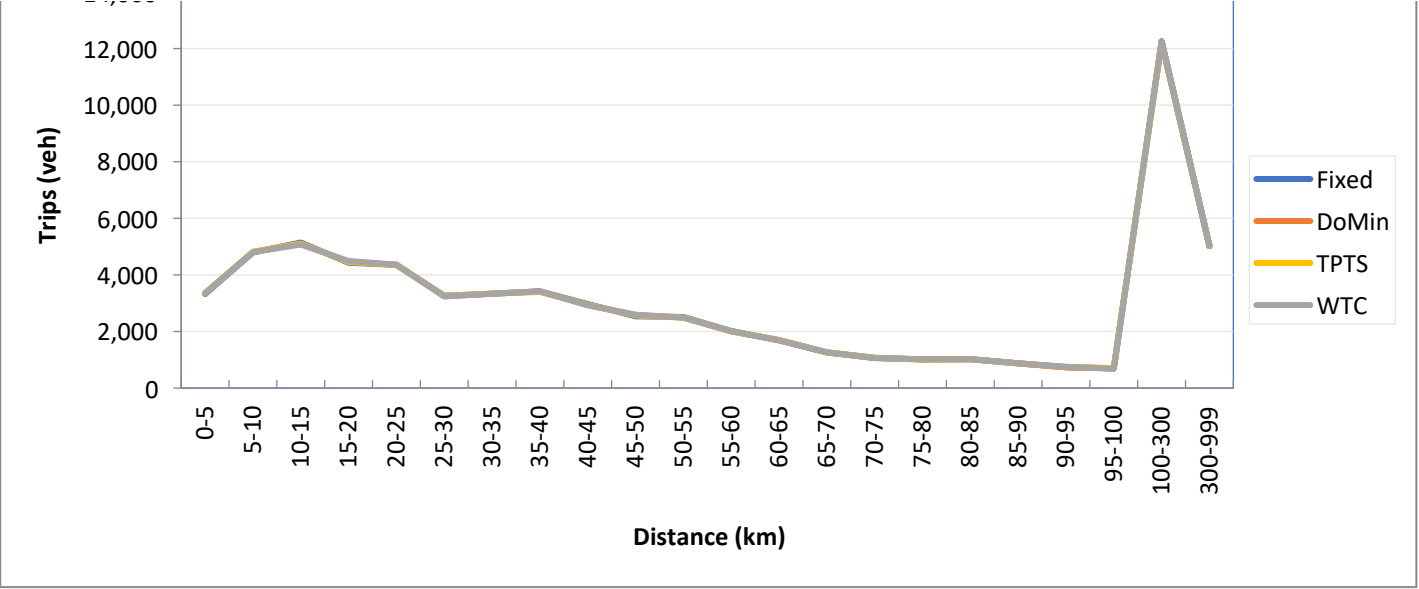
TLD	Fixed	DoMin	TPTS	WTC
Mean (1)	30.3	30.2	30.2	30.2
Mean (2)	21.3	21.3	21.3	21.3

without IZ trips
with IZ trips

Trip-Length Distribution: HGV



2	0	5	3,322	3,359	3,350	3,353	9,525	9,631	9,636	9,623	2.9	2.9	2.9	2.9
3	5	10	4,791	4,812	4,816	4,806	36,780	36,918	36,923	36,846	7.7	7.7	7.7	7.7
4	10	15	5,143	5,107	5,103	5,072	63,860	63,363	63,336	62,893	12.4	12.4	12.4	12.4
5	15	20	4,428	4,460	4,455	4,491	77,377	77,842	77,742	78,363	17.5	17.5	17.4	17.4
6	20	25	4,356	4,354	4,360	4,363	97,876	97,683	97,841	97,883	22.5	22.4	22.4	22.4
7	25	30	3,265	3,241	3,259	3,241	89,746	89,066	89,558	89,084	27.5	27.5	27.5	27.5
8	30	35	3,336	3,334	3,341	3,333	108,777	108,678	108,964	108,731	32.6	32.6	32.6	32.6
9	35	40	3,418	3,417	3,397	3,419	127,969	127,960	127,097	128,099	37.4	37.4	37.4	37.5
10	40	45	2,971	2,929	2,950	2,927	125,971	124,096	124,967	124,002	42.4	42.4	42.4	42.4
11	45	50	2,536	2,581	2,568	2,595	120,503	122,598	122,010	123,265	47.5	47.5	47.5	47.5
12	50	55	2,512	2,497	2,490	2,485	132,164	131,298	130,967	130,694	52.6	52.6	52.6	52.6
13	55	60	2,018	2,001	2,007	2,009	116,066	115,067	115,419	115,549	57.5	57.5	57.5	57.5
14	60	65	1,686	1,698	1,698	1,689	105,554	106,340	106,315	105,790	62.6	62.6	62.6	62.6
15	65	70	1,261	1,261	1,260	1,262	84,892	84,942	84,880	85,015	67.3	67.4	67.4	67.4
16	70	75	1,061	1,065	1,076	1,068	76,834	77,202	77,957	77,379	72.4	72.5	72.5	72.5
17	75	80	1,019	1,013	1,001	1,013	78,979	78,494	77,580	78,473	77.5	77.5	77.5	77.5
18	80	85	1,020	1,022	1,017	1,018	84,041	84,150	83,760	83,863	82.4	82.3	82.4	82.4
19	85	90	873	876	873	876	76,183	76,446	76,238	76,444	87.3	87.3	87.3	87.3
20	90	95	737	730	751	751	68,189	67,591	69,502	69,538	92.6	92.6	92.6	92.6
21	95	100	698	697	707	680	67,914	67,824	68,856	66,154	97.3	97.3	97.4	97.3
22	100	300	12,248	12,249	12,223	12,243	2,129,765	2,130,787	2,126,620	2,125,564	173.9	174.0	174.0	173.6
23	300	999	5,022	5,016	5,018	5,026	2,163,130	2,160,672	2,161,337	2,163,325	430.7	430.8	430.7	430.4
Total			67,719	67,719	67,719	67,720	6,042,093	6,038,647	6,037,505	6,036,578	89.2	89.2	89.2	89.1



Mean TLD

TLD	Fixed	DoMin	TPTS	WTC
Mean (1)	89.2	89.2	89.2	89.1
Mean (2)	84.9	84.9	84.8	84.8

without IZ trips

with IZ trips

TRIP-LENGTH DISTRIBUTION

All Vehicles

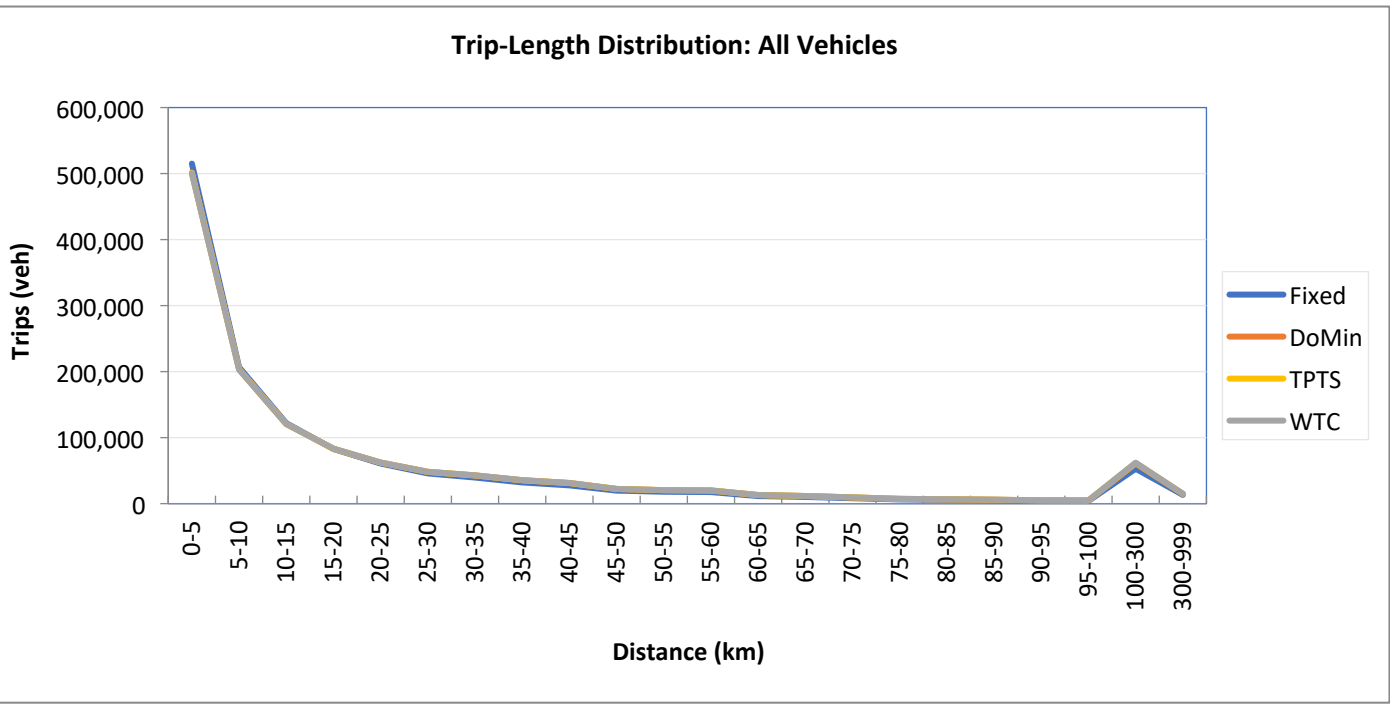
Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	557,469	515,076	206,639	121,949	82,763	60,790	45,808	39,563	32,147	27,675	19,755	18,049	17,542	11,511	10,162	8,238	6,407	5,849	5,228	4,293	4,163	52,879	13,348	
Do-Minimum Trips	535,144	501,649	203,531	120,819	83,151	62,251	48,157	42,802	35,532	31,250	22,280	20,456	19,953	13,008	11,545	9,408	7,211	6,609	5,939	4,933	4,761	60,855	14,853	
TPTS Only Ttips	534,676	501,246	203,661	120,624	83,084	62,239	48,153	42,755	35,425	31,242	22,277	20,423	19,988	13,045	11,554	9,489	7,233	6,634	5,991	4,993	4,831	61,588	14,902	
Optimised Package Trips	534,655	500,383	203,013	120,518	83,385	62,268	48,248	42,866	35,592	31,359	22,300	20,449	19,990	13,099	11,571	9,536	7,284	6,672	6,028	4,984	4,899	62,059	15,011	
Fixed Demand Veh.kms	0	1,065,124	1,508,969	1,499,108	1,437,826	1,361,546	1,256,070	1,292,213	1,203,507	1,166,673	938,583	945,157	1,005,450	720,636	682,777	596,455	496,407	481,780	457,154	397,433	405,118	8,610,835	5,524,837	
Do-Minimum Veh.kms	0	1,035,275	1,486,612	1,486,649	1,444,852	1,394,294	1,320,771	1,398,360	1,330,459	1,317,264	1,058,390	1,071,004	1,144,123	814,285	775,735	681,315	558,557	544,441	519,451	456,747	463,365	9,894,475	6,105,188	
TPTS Only Veh.kms	0	1,034,070	1,487,602	1,484,419	1,443,670	1,393,890	1,320,596	1,396,735	1,326,176	1,316,857	1,058,228	1,069,291	1,146,097	816,583	776,340	687,136	560,311	546,538	523,971	462,300	470,197	9,999,700	6,124,567	
Optimised Package Veh.kms	0	1,032,798	1,483,254	1,483,066	1,449,011	1,394,727	1,323,338	1,400,323	1,332,546	1,321,961	1,059,340	1,070,631	1,146,246	819,904	777,471	690,560	564,272	549,624	527,180	461,415	476,848	10,058,828	6,164,070	

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	557,469	535,144	534,676	534,655	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	515,076	501,649	501,246	500,383	1,065,124	1,035,275	1,034,070	1,032,798	2.1	2.1	2.1	2.1
3	5	10	206,639	203,531	203,661	203,013	1,508,969	1,486,612	1,487,602	1,483,254	7.3	7.3	7.3	7.3
4	10	15	121,949	120,819	120,624	120,518	1,499,108	1,486,649	1,484,419	1,483,066	12.3	12.3	12.3	12.3
5	15	20	82,763	83,151	83,084	83,385	1,437,826	1,444,852	1,443,670	1,449,011	17.4	17.4	17.4	17.4
6	20	25	60,790	62,251	62,239	62,268	1,361,546	1,394,294	1,393,890	1,394,727	22.4	22.4	22.4	22.4
7	25	30	45,808	48,157	48,153	48,248	1,256,070	1,320,771	1,320,596	1,323,338	27.4	27.4	27.4	27.4
8	30	35	39,563	42,802	42,755	42,866	1,292,213	1,398,360	1,396,735	1,400,323	32.7	32.7	32.7	32.7
9	35	40	32,147	35,532	35,425	35,592	1,203,507	1,330,459	1,326,176	1,332,546	37.4	37.4	37.4	37.4
10	40	45	27,675	31,250	31,242	31,359	1,166,673	1,317,264	1,316,857	1,321,961	42.2	42.2	42.2	42.2
11	45	50	19,755	22,280	22,277	22,300	938,583	1,058,390	1,058,228	1,059,340	47.5	47.5	47.5	47.5
12	50	55	18,049	20,456	20,423	20,449	945,157	1,071,004	1,069,291	1,070,631	52.4	52.4	52.4	52.4
13	55	60	17,542	19,953	19,988	19,990	1,005,450	1,144,123	1,146,097	1,146,246	57.3	57.3	57.3	57.3
14	60	65	11,511	13,008	13,045	13,099	720,636	814,285	816,583	819,904	62.6	62.6	62.6	62.6
15	65	70	10,162	11,545	11,554	11,571	682,777	775,735	776,340	777,471	67.2	67.2	67.2	67.2
16	70	75	8,238	9,408	9,489	9,536	596,455	681,315	687,136	690,560	72.4	72.4	72.4	72.4
17	75	80	6,407	7,211	7,233	7,284	496,407	558,557	560,311	564,272	77.5	77.5	77.5	77.5
18	80	85	5,849	6,609	6,634	6,672	481,780	544,441	546,538	549,624	82.4	82.4	82.4	82.4
19	85	90	5,228	5,939	5,991	6,028	457,154	519,451	523,971	527,180	87.5	87.5	87.5	87.5
20	90	95	4,293	4,933	4,993	4,984	397,433	456,747	462,300	461,415	92.6	92.6	92.6	92.6
21	95	100	4,163	4,761	4,831	4,899	405,118	463,365	470,197	476,848	97.3	97.3	97.3	97.3
22	100	300	52,879	60,855	61,588	62,059	8,610,835	9,894,475	9,999,700	10,058,828	162.8	162.6	162.4	162.1
23	300	999	13,348	14,853	14,902	15,011	5,524,837	6,105,188	6,124,567	6,164,070	413.9	411.0	411.0	410.6
Total			1,309,833	1,330,954	1,331,375	1,331,516	33,053,657	36,301,611	36,445,273	36,587,412	25.2	27.3	27.4	27.5

Business

Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	30,496	33,299	23,576	17,732	12,709	8,236	5,804	5,144	4,417	3,844	3,206	3,162	2,872	2,545	2,240	1,737	1,322	1,082	992	960	976	12,484	2,941	
Do-Minimum Trips	26,443	29,296	21,137	16,123	11,765	7,760	5,791	5,842	5,440	4,873	4,009	4,019	3,697	3,173	2,790	2,145	1,648	1,372	1,236	1,235	1,183	15,798	3,749	
TPTS Only Ttips	26,292	29,098	21,031	16,008	11,684	7,756	5,752	5,786	5,402	4,850	3,997	3,992	3,719	3,186	2,785	2,188	1,652	1,394	1,263	1,256	1,224	16,287	3,765	
Optimised Package Trips	26,217	28,940	20,856	15,969	11,701	7,717	5,747	5,814	5,437	4,865	4,002	3,993	3,706	3,208	2,785	2,212	1,679	1,408	1,282	1,239	1,274	16,547	3,816	
Fixed Demand Veh.kms	0	76,125	172,473	219,880	220,758	183,845	159,121	167,393	165,447	162,569	152,158	165,950	164,959	159,088	150,739	125,733	102,387	89,135	86,826	88,823	95,035	2,064,141	1,143,697	
Do-Minimum Veh.kms	0	67,209	154,704	200,178	204,400	173,260	158,922	190,348	203,855	206,118	190,235	210,867	212,317	198,358	187,802	155,219	127,628	113,012	108,152	114,283	115,284	2,621,841	1,449,637	
TPTS Only Veh.kms	0	66,722	153,913	198,749	202,898	173,123	157,850	188,482	202,438	205,117	189,644	209,463	213,581	199,101	187,464	158,374	127,982	114,778	110,461	116,327	119,318	2,688,285	1,456,230	
Optimised Package Veh.kms	0	66,420	152,578	198,204	203,313	172,327	157,735	189,370	203,738	205,821	189,896	209,516	212,812	200,490	187,388	160,140	130,039	115,968	112,151	114,710	124,106	2,723,165	1,474,909	

Band	Distance (km)	Trips (veh)	Trip.kms	Average Length (km)
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Mean TLD

TLD	Fixed	DoMin	TPTS	WTC	
Mean (1)	25.2	27.3	27.4	27.5	without IZ trips
Mean (2)	17.7	19.5	19.5	19.6	with IZ trips

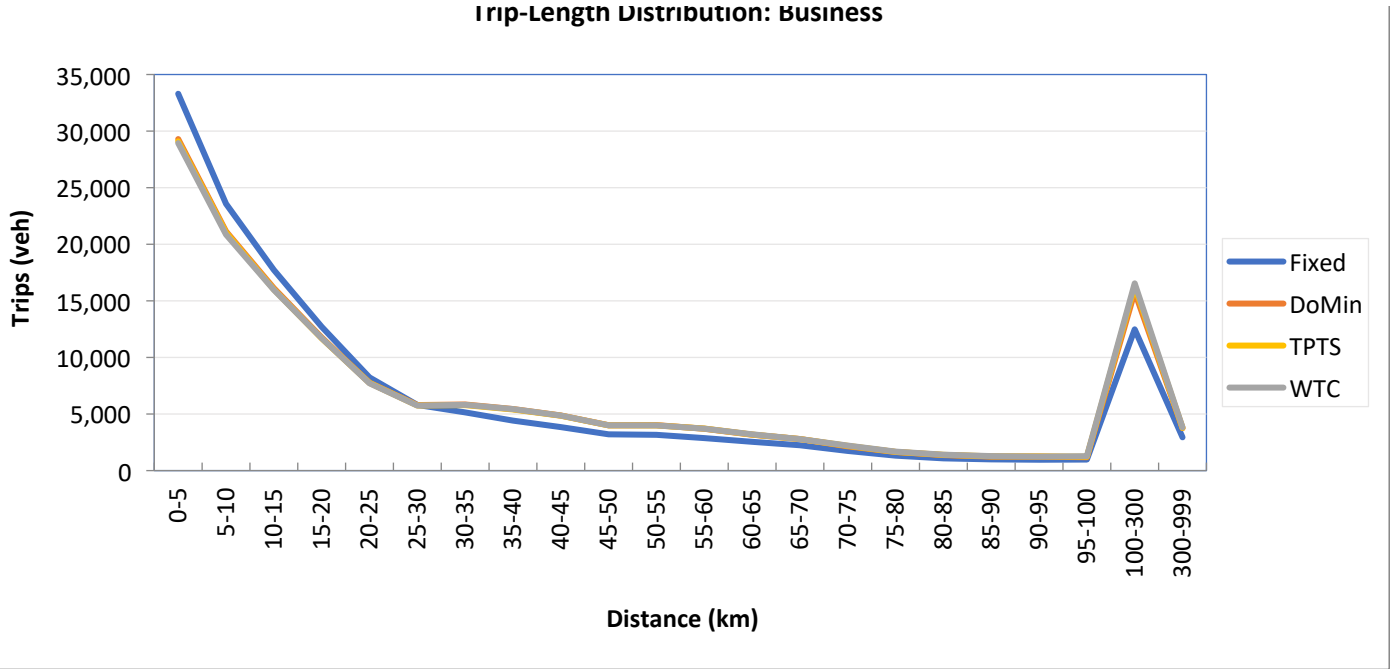
Period	Purpose	Fixed	DoMin	TPTS	WTC
AM Peak	Business	41.3	48.2	48.7	49.0
	Commute	18.4	18.9	18.9	19.0
	Other	16.5	19.5	19.6	19.7
Inter-Peak	Business	38.5	46.1	46.6	47.0
	Commute	20.0	20.7	20.7	20.8
	Other	13.6	16.0	16.1	16.2
PM Peak	Business	43.7	51.2	51.6	52.0
	Commute	18.9	19.4	19.5	19.5
	Other	15.0	17.5	17.6	17.8
12-hour Average	Business	40.4	47.8	48.3	48.7
	Commute	18.9	19.5	19.6	19.6
	Other	14.4	17.0	17.1	17.2

Band	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	30,496	26,443	26,292	26,217	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	33,299	29,296	29,098	28,940	76,125	67,209	66,722	66,420	2.3	2.3	2.3	2.3
3	5	10	23,576	21,137	21,031	20,856	172,473	154,704	153,913	152,578	7.3	7.3	7.3	7.3
4	10	15	17,732	16,123	16,008	15,969	219,880	200,178	198,749	198,204	12.4	12.4	12.4	12.4
5	15	20	12,709	11,765	11,684	11,701	220,758	204,400	202,898	203,313	17.4	17.4	17.4	17.4
6	20	25	8,236	7,760	7,756	7,717	183,845	173,260	173,123	172,327	22.3	22.3	22.3	22.3
7	25	30	5,804	5,791	5,752	5,747	159,121	158,922	157,850	157,735	27.4	27.4	27.4	27.4
8	30	35	5,144	5,842	5,786	5,814	167,393	190,348	188,482	189,370	32.5	32.6	32.6	32.6
9	35	40	4,417	5,440	5,402	5,437	165,447	203,855	202,438	203,738	37.5	37.5	37.5	37.5
10	40	45	3,844	4,873	4,850	4,865	162,569	206,118	205,117	205,821	42.3	42.3	42.3	42.3
11	45	50	3,206	4,009	3,997	4,002	152,158	190,235	189,644	189,896	47.5	47.5	47.4	47.4
12	50	55	3,162	4,019	3,992	3,993	165,950	210,867	209,463	209,516	52.5	52.5	52.5	52.5
13	55	60	2,872	3,697	3,719	3,706	164,959	212,317	213,581	212,812	57.4	57.4	57.4	57.4
14	60	65	2,545	3,173	3,186	3,208	159,088	198,358	199,101	200,490	62.5	62.5	62.5	62.5
15	65	70	2,240	2,790	2,785	2,785	150,739	187,802	187,464	187,388	67.3	67.3	67.3	67.3
16	70	75	1,737	2,145	2,188	2,212	125,733	155,219	158,374	160,140	72.4	72.4	72.4	72.4
17	75	80	1,322	1,648	1,652	1,679	102,387	127,628	127,982	130,039	77.4	77.5	77.5	77.5
18	80	85	1,082	1,372	1,394	1,408	89,135	113,012	114,778	115,968	82.4	82.4	82.4	82.4
19	85	90	992	1,236	1,263	1,282	86,826	108,152	110,461	112,151	87.5	87.5	87.5	87.5
20	90	95	960	1,235	1,256	1,239	88,823	114,283	116,327	114,710	92.5	92.6	92.6	92.6
21	95	100	976	1,183	1,224	1,274	95,035	115,284	119,318	124,106	97.4	97.5	97.5	97.5
22	100	300	12,484	15,798	16,287	16,547	2,064,141	2,621,841	2,688,285	2,723,165	165.3	166.0	165.1	164.6
23	300	999	2,941	3,749	3,765	3,816	1,143,697	1,449,637	1,456,230	1,474,909	388.8	386.6	386.7	386.5
Total			151,280	154,083	154,075	154,199	6,116,283	7,363,628	7,440,301	7,504,796	40.4	47.8	48.3	48.7

Commute

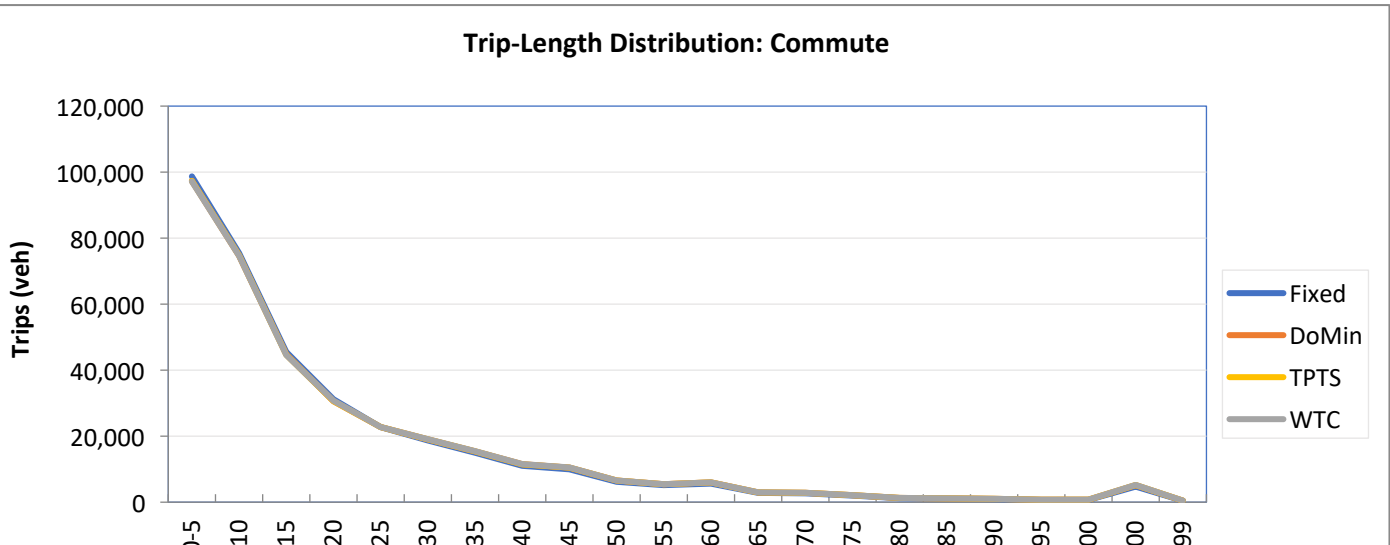
Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	76,169	98,711	75,488	45,521	31,198	22,740	18,701	14,985	11,022	9,957	6,181	5,168	5,627	2,824	2,682	2,001	1,213	1,081	946	689	693	4,721	439	
Do-Minimum Trips	74,469	97,332	74,663	44,804	30,580	22,771	19,035	15,404	11,524	10,482	6,578	5,449	6,004	2,970	2,845	2,126	1,294	1,154	1,020	753	757	5,162	470	
TPTS Only Ttips	74,443	97,365	74,787	44,658	30,616	22,768	19,045	15,416	11,463	10,481	6,575	5,444	6,001	2,965	2,841	2,135	1,294	1,158	1,025	750	761	5,203	474	
Optimised Package Trips	74,407	97,158	74,624	44,585	30,760	22,776	19,095	15,471	11,551	10,533	6,581	5,459	6,005	2,986	2,856	2,135	1,301	1,162	1,027	755	767	5,232	477	
Fixed Demand Veh.kms	0	235,924	554,602	559,790	542,626	510,627	512,782	489,668	411,944	418,605	293,570	270,419	321,288	176,964	179,925	144,715	93,901	89,053	82,953	63,783	67,279	678,219	172,159	
Do-Minimum Veh.kms	0	231,703	548,216	551,713	531,843	511,069	521,720	503,507	430,787	440,522	312,444	285,058	343,093	186,095	190,872	153,795	100,206	95,066	89,459	69,737	73,523	740,987	184,191	
TPTS Only Veh.kms	0	231,761	549,380	550,106	532,516	510,937	521,941	503,834	428,488	440,452	312,326	284,838	342,899	185,799	190,616	154,465	100,203	95,420	89,888	69,405	73,914	747,549	185,527	
Optimised Package Veh.kms	0	231,414	548,213	549,170	535,066	511,200	523,361	505,548	431,733	442,669	312,608	285,615	343,134	187,079	191,558	154,475	100,785	95,774	90,088	69,887	74,483	751,567	186,766	

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	76,169	74,469	74,443	74,407	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	98,711	97,332	97,365	97,158	235,924	231,703	231,761	231,414	2.4	2.4	2.4	2.4
3	5	10	75,488	74,663	74,787	74,624	554,602	548,216	549,380	548,213	7.3	7.3	7.3	7.3
4	10	15	45,521	44,804	44,658	44,585	559,790	551,713	550,106	549,170	12.3	12.3	12.3	12.3
5	15	20	31,198	30,580	30,616	30,760	542,626	531,843	532,516	535,066	17.4	17.4	17.4	17.4
6	20	25	22,740	22,771	22,768	22,776	510,627	511,069	510,937	511,200	22.5	22.4	22.4	22.4
7	25	30	18,701	19,035	19,045	19,095	512,782	521,720	521,941	523,361	27.4	27.4	27.4	27.4
8	30	35	14,985	15,404	15,416	15,471	489,668	503,507	503,834	505,548	32.7	32.7	32.7	32.7
9	35	40	11,022	11,524	11,463	11,551	411,944	430,787	428,488	431,733	37.4	37.4	37.4	37.4
10	40	45	9,957	10,482	10,481	10,533	418,605	440,522	440,452	442,669	42.0	42.0	42.0	42.0
11	45	50	6,181	6,578	6,575	6,581	293,570	312,444	312,326	312,608	47.5	47.5	47.5	47.5
12	50	55	5,168	5,449	5,444	5,459	270,419	285,058	284,838	285,615	52.3	52.3	52.3	52.3



Mean TLD

TLD	Fixed	DoMin	TPTS	WTC	
Mean (1)	40.4	47.8	48.3	48.7	without IZ trips
Mean (2)	33.6	40.8	41.3	41.6	with IZ trips



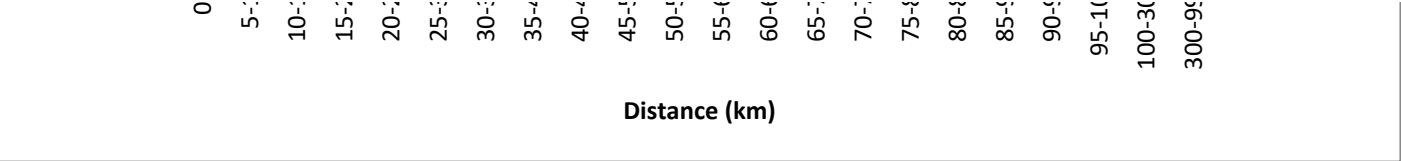
13	55	60	5,627	6,004	6,001	6,005	321,288	343,093	342,899	343,134	57.1	57.1	57.1	57.1
14	60	65	2,824	2,970	2,965	2,986	176,964	186,095	185,799	187,079	62.7	62.7	62.7	62.6
15	65	70	2,682	2,845	2,841	2,856	179,925	190,872	190,616	191,558	67.1	67.1	67.1	67.1
16	70	75	2,001	2,126	2,135	2,135	144,715	153,795	154,465	154,475	72.3	72.3	72.3	72.4
17	75	80	1,213	1,294	1,294	1,301	93,901	100,206	100,203	100,785	77.4	77.5	77.5	77.5
18	80	85	1,081	1,154	1,158	1,162	89,053	95,066	95,420	95,774	82.4	82.4	82.4	82.4
19	85	90	946	1,020	1,025	1,027	82,953	89,459	89,888	90,088	87.7	87.7	87.7	87.7
20	90	95	689	753	750	755	63,783	69,737	69,405	69,887	92.6	92.6	92.6	92.6
21	95	100	693	757	761	767	67,279	73,523	73,914	74,483	97.2	97.2	97.1	97.2
22	100	300	4,721	5,162	5,203	5,232	678,219	740,987	747,549	751,567	143.7	143.5	143.7	143.6
23	300	999	439	470	474	477	172,159	184,191	185,527	186,766	391.8	391.8	391.8	391.7
Total			362,588	363,177	363,225	363,296	6,870,796	7,095,606	7,102,263	7,122,194	18.9	19.5	19.6	19.6

Other

Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	389,799	343,465	83,264	40,729	24,600	16,089	11,218	10,221	7,784	6,587	4,274	4,101	3,940	2,352	2,172	1,924	1,433	1,335	1,233	958	992	12,804	2,572	
Do-Minimum Trips	373,238	335,347	83,302	41,980	26,532	18,021	13,237	12,352	9,687	8,625	5,585	5,392	5,151	3,075	2,851	2,559	1,830	1,736	1,630	1,269	1,315	17,045	3,246	
TPTS Only Ttips	372,918	335,137	83,435	42,028	26,505	18,001	13,274	12,342	9,689	8,628	5,594	5,401	5,166	3,109	2,870	2,587	1,851	1,745	1,648	1,284	1,327	17,280	3,272	
Optimised Package Trips	373,028	334,597	83,156	42,055	26,637	18,068	13,323	12,379	9,723	8,673	5,601	5,415	5,178	3,132	2,862	2,606	1,862	1,761	1,662	1,300	1,348	17,445	3,317	
Fixed Demand Veh.kms	0	658,572	602,404	497,905	426,275	359,527	307,683	334,816	291,735	277,307	203,168	214,174	225,862	147,477	145,669	139,350	111,149	110,057	107,884	88,805	96,518	2,011,235	1,073,153	
Do-Minimum Veh.kms	0	641,773	603,472	513,856	460,147	403,151	363,401	404,471	362,985	363,230	265,406	281,566	295,434	192,732	191,246	185,429	141,743	143,072	142,688	117,600	127,873	2,678,080	1,339,039	
TPTS Only Veh.kms	0	640,984	604,204	514,431	459,672	402,641	364,394	404,129	363,043	363,347	265,822	282,056	296,273	194,888	192,535	187,435	143,388	143,883	144,196	119,014	129,029	2,714,684	1,349,336	
Optimised Package Veh.kms	0	640,286	602,541	514,873	461,902	404,152	365,783	405,374	364,351	365,301	266,174	282,763	296,958	196,313	192,018	188,839	144,200	145,197	145,428	120,438	131,095	2,738,765	1,366,014	

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	389,799	373,238	372,918	373,028	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	343,465	335,347	335,137	334,597	658,572	641,773	640,984	640,286	1.9	1.9	1.9	1.9
3	5	10	83,264	83,302	83,435	83,156	602,404	603,472	604,204	602,541	7.2	7.2	7.2	7.2
4	10	15	40,729	41,980	42,028	42,055	497,905	513,856	514,431	514,873	12.2	12.2	12.2	12.2
5	15	20	24,600	26,532	26,505	26,637	426,275	460,147	459,672	461,902	17.3	17.3	17.3	17.3
6	20	25	16,089	18,021	18,001	18,068	359,527	403,151	402,641	404,152	22.3	22.4	22.4	22.4
7	25	30	11,218	13,237	13,274	13,323	307,683	363,401	364,394	365,783	27.4	27.5	27.5	27.5
8	30	35	10,221	12,352	12,342	12,379	334,816	404,471	404,129	405,374	32.8	32.7	32.7	32.7
9	35	40	7,784	9,687	9,689	9,723	291,735	362,985	363,043	364,351	37.5	37.5	37.5	37.5
10	40	45	6,587	8,625	8,628	8,673	277,307	363,230	363,347	365,301	42.1	42.1	42.1	42.1
11	45	50	4,274	5,585	5,594	5,601	203,168	265,406	265,822	266,174	47.5	47.5	47.5	47.5
12	50	55	4,101	5,392	5,401	5,415	214,174	281,566	282,056	282,763	52.2	52.2	52.2	52.2
13	55	60	3,940	5,151	5,166	5,178	225,862	295,434	296,273	296,958	57.3	57.3	57.4	57.3
14	60	65	2,352	3,075	3,109	3,132	147,477	192,732	194,888	196,313	62.7	62.7	62.7	62.7
15	65	70	2,172	2,851	2,870	2,862	145,669	191,246	192,535	192,018	67.1	67.1	67.1	67.1
16	70	75	1,924	2,559	2,587	2,606	139,350	185,429	187,435	188,839	72.4	72.5	72.5	72.5
17	75	80	1,433	1,830	1,851	1,862	111,149	141,743	143,388	144,200	77.6	77.4	77.5	77.4
18	80	85	1,335	1,736	1,745	1,761	110,057	143,072	143,883	145,197	82.4	82.4	82.4	82.4
19	85	90	1,233	1,630	1,648	1,662	107,884	142,688	144,196	145,428	87.5	87.5	87.5	87.5
20	90	95	958	1,269	1,284	1,300	88,805	117,600	119,014	120,438	92.7	92.7	92.7	92.7
21	95	100	992	1,315	1,327	1,348	96,518	127,873	129,029	131,095	97.3	97.3	97.3	97.3
22	100	300	12,804	17,045	17,280	17,445	2,011,235	2,678,080	2,714,684	2,738,765	157.1	157.1	157.1	157.0
23	300	999	2,572	3,246	3,272	3,317	1,073,153	1,339,039	1,349,336	1,366,014	417.2	412.6	412.3	411.8
Total			584,047	601,765	602,174	602,101	8,430,723	10,218,396	10,279,383	10,338,765	14.4	17.0	17.1	17.2

LGV

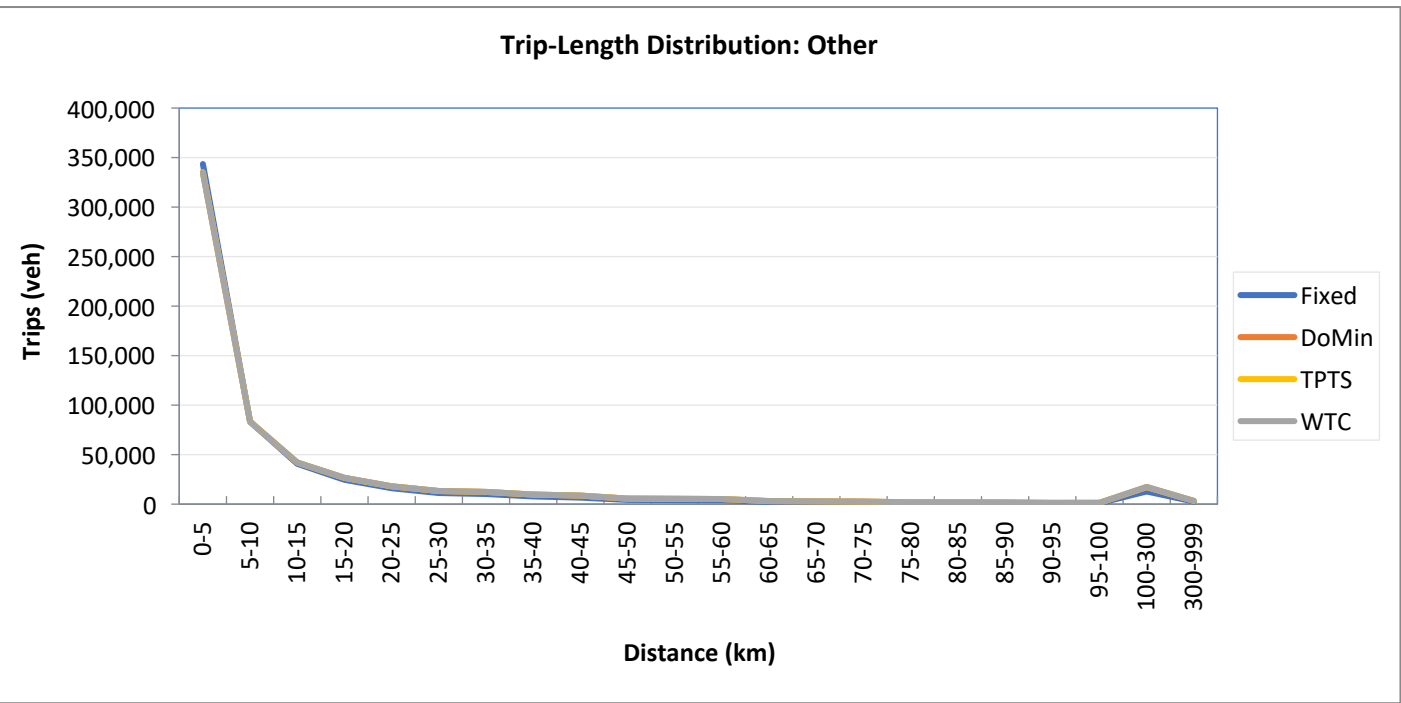


Mean TLD

TLD	Fixed	DoMin	TPTS	WTC
Mean (1)	18.9	19.5	19.6	19.6
Mean (2)	15.7	16.2	16.2	16.3

without IZ trips

with IZ trips



Mean TLD

TLD	Fixed	DoMin	TPTS	WTC
Mean (1)	14.4	17.0	17.1	17.2
Mean (2)	8.7	10.5	10.5	10.6

without IZ trips

with IZ trips

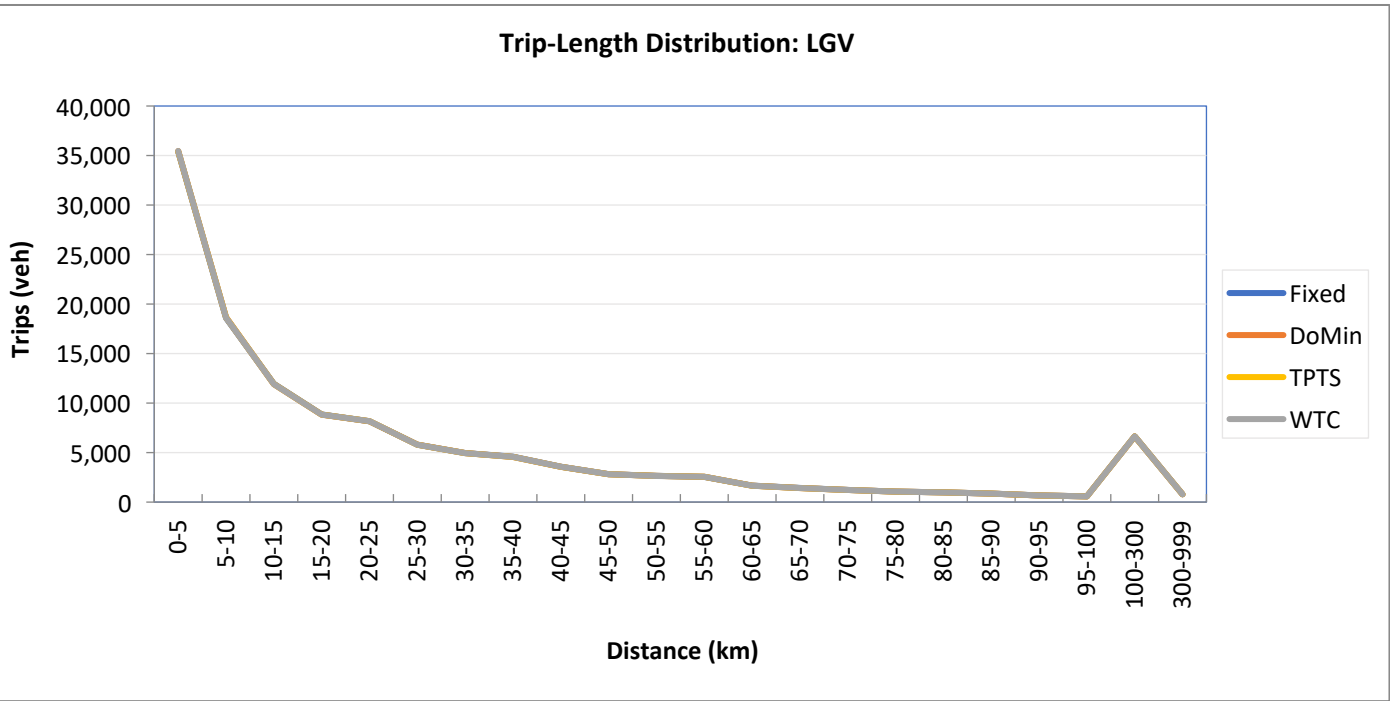
Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	56,471	35,390	18,590	11,952	8,853	8,162	5,801	4,954	4,590	3,573	2,819	2,657	2,543	1,666	1,433	1,229	1,064	982	862	675	579	6,645	786	
Do-Minimum Trips	56,460	35,448	18,672	11,910	8,830	8,164	5,805	4,952	4,562	3,567	2,815	2,648	2,561	1,660	1,417	1,227	1,062	984	858	670	581	6,636	785	
TPTS Only Ttips	56,489	35,424	18,653	11,922	8,839	8,173	5,794	4,946	4,562	3,566	2,816	2,647	2,560	1,655	1,418	1,227	1,061	984	864	671	580	6,639	785	
Optimised Package Trips	56,469	35,464	18,628	11,912	8,836	8,173	5,794	4,946	4,568	3,574	2,819	2,638	2,560	1,658	1,423	1,228	1,063	982	860	675	580	6,640	786	
Fixed Demand Veh.kms	0	82,522	135,646	147,099	153,915	182,737	158,911	161,542	171,932	150,880	133,976	139,152	146,204	104,207	96,339	88,971	82,382	80,893	75,264	62,447	56,331	1,040,621	289,219	
Do-Minimum Veh.kms	0	82,570	136,149	146,645	153,451	182,743	159,041	161,478	170,893	150,615	133,757	138,672	147,240	103,847	95,349	88,810	82,270	81,046	74,914	62,037	56,529	1,039,253	288,917	
TPTS Only Veh.kms	0	82,590	136,055	146,786	153,627	182,980	158,755	161,291	170,884	150,591	133,821	138,632	147,195	103,519	95,391	88,825	82,169	81,008	75,379	62,098	56,400	1,039,841	288,977	
Optimised Package Veh.kms	0	82,659	135,906	146,669	153,579	182,975	158,742	161,279	171,093	150,920	133,961	138,149	147,204	103,694	95,716	88,907	82,300	80,871	75,105	62,463	56,422	1,039,734	289,204	

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	56,471	56,460	56,489	56,469	0	0	0	0	0.0	0.0	0.0	0.0
2	0	5	35,390	35,448	35,424	35,464	82,522	82,570	82,590	82,659	2.3	2.3	2.3	2.3
3	5	10	18,590	18,672	18,653	18,628	135,646	136,149	136,055	135,906	7.3	7.3	7.3	7.3
4	10	15	11,952	11,910	11,922	11,912	147,099	146,645	146,786	146,669	12.3	12.3	12.3	12.3
5	15	20	8,853	8,830	8,839	8,836	153,915	153,451	153,627	153,579	17.4	17.4	17.4	17.4
6	20	25	8,162	8,164	8,173	8,173	182,737	182,743	182,980	182,975	22.4	22.4	22.4	22.4
7	25	30	5,801	5,805	5,794	5,794	158,911	159,041	158,755	158,742	27.4	27.4	27.4	27.4
8	30	35	4,954	4,952	4,946	4,946	161,542	161,478	161,291	161,279	32.6	32.6	32.6	32.6
9	35	40	4,590	4,562	4,562	4,568	171,932	170,893	170,884	171,093	37.5	37.5	37.5	37.5
10	40	45	3,573	3,567	3,566	3,574	150,880	150,615	150,591	150,920	42.2	42.2	42.2	42.2
11	45	50	2,819	2,815	2,816	2,819	133,976	133,757	133,821	133,961	47.5	47.5	47.5	47.5
12	50	55	2,657	2,648	2,647	2,638	139,152	138,672	138,632	138,149	52.4	52.4	52.4	52.4
13	55	60	2,543	2,561	2,560	2,560	146,204	147,240	147,195	147,204	57.5	57.5	57.5	57.5
14	60	65	1,666	1,660	1,655	1,658	104,207	103,847	103,519	103,694	62.5	62.6	62.6	62.5
15	65	70	1,433	1,417	1,418	1,423	96,339	95,349	95,391	95,716	67.2	67.3	67.3	67.3
16	70	75	1,229	1,227	1,227	1,228	88,971	88,810	88,825	88,907	72.4	72.4	72.4	72.4
17	75	80	1,064	1,062	1,061	1,063	82,382	82,270	82,169	82,300	77.4	77.4	77.5	77.5
18	80	85	982	984	984	982	80,893	81,046	81,008	80,871	82.4	82.4	82.3	82.4
19	85	90	862	858	864	860	75,264	74,914	75,379	75,105	87.3	87.3	87.3	87.3
20	90	95	675	670	671	675	62,447	62,037	62,098	62,463	92.5	92.5	92.5	92.5
21	95	100	579	581	580	580	56,331	56,529	56,400	56,422	97.3	97.3	97.3	97.3
22	100	300	6,645	6,636	6,639	6,640	1,040,621	1,039,253	1,039,841	1,039,734	156.6	156.6	156.6	156.6
23	300	999	786	785	785	786	289,219	288,917	288,977	289,204	368.0	368.0	368.0	368.0
Total			125,804	125,816	125,786	125,806	3,741,190	3,736,226	3,736,814	3,737,552	29.7	29.7	29.7	29.7

HGV

Distance	0-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-300	300-999	
Fixed Demand Trips	4,533	4,211	5,722	6,015	5,402	5,564	4,284	4,259	4,334	3,714	3,275	2,961	2,559	2,123	1,636	1,347	1,375	1,368	1,194	1,011	924	16,226	6,609	
Do-Minimum Trips	4,534	4,225	5,757	6,002	5,445	5,534	4,289	4,252	4,320	3,703	3,293	2,949	2,540	2,129	1,641	1,352	1,377	1,363	1,194	1,006	926	16,214	6,603	
TPTS Only Ttips	4,534	4,222	5,754	6,009	5,441	5,540	4,288	4,264	4,308	3,716	3,295	2,938	2,541	2,130	1,639	1,352	1,375	1,353	1,192	1,031	939	16,180	6,605	
Optimised Package Trips	4,534	4,225	5,749	5,996	5,451	5,534	4,289	4,256	4,313	3,714	3,297	2,944	2,541	2,114	1,646	1,355	1,380	1,358	1,196	1,015	932	16,195	6,615	
Fixed Demand Veh.kms	0	11,980	43,844	74,434	94,252	124,810	117,572	138,793	162,448	157,313	155,712	155,462	147,137	132,901	110,105	97,686	106,588	112,642	104,226	93,576	89,955	2,816,619	2,846,610	
Do-Minimum Veh.kms	0	12,020	44,071	74,257	95,011	124,072	117,686	138,556	161,938	156,778	156,549	154,842	146,040	133,253	110,467	98,061	106,710	112,246	104,238	93,089	90,156	2,814,314	2,843,404	
TPTS Only Veh.kms	0	12,014	44,051	74,347	94,956	124,209	117,657	138,998	161,323	157,349	156,614	154,302	146,148	133,276	110,333	98,037	106,570	111,449	104,047	95,457	91,535	2,809,340	2,844,497	
Optimised Package Veh.kms	0	12,020	44,017	74,150	95,151	124,072	117,718	138,753	161,630	157,250	156,703	154,587	146,137	132,327	110,790	98,199	106,947	111,814	104,407	93,917	90,742	2,805,597	2,847,177	

Band	Distance (km)		Trips (veh)				Trip.kms				Average Length (km)			
	from	to	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC	Fixed	DoMin	TPTS	WTC
1	0	0	4,533	4,534	4,534	4,534	0	0	0	0	0.0	0.0	0.0	0.0



Mean TLD

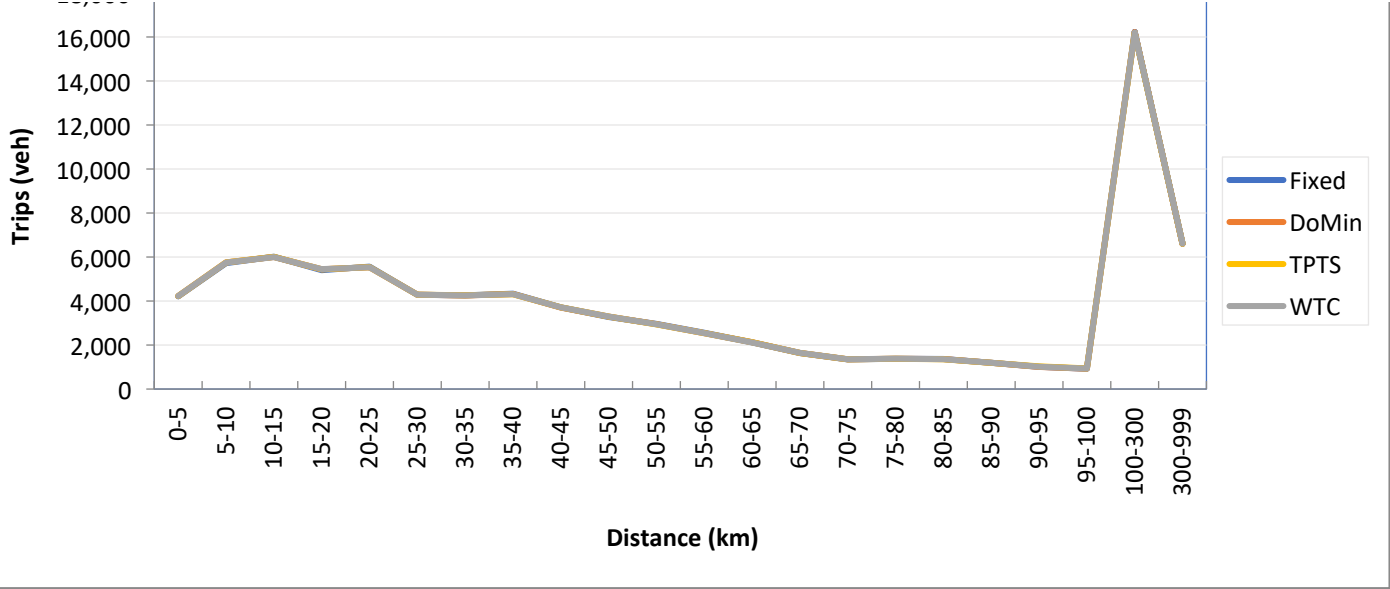
TLD	Fixed	DoMin	TPTS	WTC
Mean (1)	29.7	29.7	29.7	29.7
Mean (2)	20.5	20.5	20.5	20.5

without IZ trips

with IZ trips



2	0	5	4,211	4,225	4,222	4,225	11,980	12,020	12,014	12,020	2.8	2.8	2.8	2.8
3	5	10	5,722	5,757	5,754	5,749	43,844	44,071	44,051	44,017	7.7	7.7	7.7	7.7
4	10	15	6,015	6,002	6,009	5,996	74,434	74,257	74,347	74,150	12.4	12.4	12.4	12.4
5	15	20	5,402	5,445	5,441	5,451	94,252	95,011	94,956	95,151	17.4	17.4	17.5	17.5
6	20	25	5,564	5,534	5,540	5,534	124,810	124,072	124,209	124,072	22.4	22.4	22.4	22.4
7	25	30	4,284	4,289	4,288	4,289	117,572	117,686	117,657	117,718	27.4	27.4	27.4	27.4
8	30	35	4,259	4,252	4,264	4,256	138,793	138,556	138,998	138,753	32.6	32.6	32.6	32.6
9	35	40	4,334	4,320	4,308	4,313	162,448	161,938	161,323	161,630	37.5	37.5	37.4	37.5
10	40	45	3,714	3,703	3,716	3,714	157,313	156,778	157,349	157,250	42.4	42.3	42.3	42.3
11	45	50	3,275	3,293	3,295	3,297	155,712	156,549	156,614	156,703	47.5	47.5	47.5	47.5
12	50	55	2,961	2,949	2,938	2,944	155,462	154,842	154,302	154,587	52.5	52.5	52.5	52.5
13	55	60	2,559	2,540	2,541	2,541	147,137	146,040	146,148	146,137	57.5	57.5	57.5	57.5
14	60	65	2,123	2,129	2,130	2,114	132,901	133,253	133,276	132,327	62.6	62.6	62.6	62.6
15	65	70	1,636	1,641	1,639	1,646	110,105	110,467	110,333	110,790	67.3	67.3	67.3	67.3
16	70	75	1,347	1,352	1,352	1,355	97,686	98,061	98,037	98,199	72.5	72.5	72.5	72.5
17	75	80	1,375	1,377	1,375	1,380	106,588	106,710	106,570	106,947	77.5	77.5	77.5	77.5
18	80	85	1,368	1,363	1,353	1,358	112,642	112,246	111,449	111,814	82.3	82.4	82.3	82.3
19	85	90	1,194	1,194	1,192	1,196	104,226	104,238	104,047	104,407	87.3	87.3	87.3	87.3
20	90	95	1,011	1,006	1,031	1,015	93,576	93,089	95,457	93,917	92.5	92.6	92.6	92.6
21	95	100	924	926	939	932	89,955	90,156	91,535	90,742	97.4	97.4	97.5	97.4
22	100	300	16,226	16,214	16,180	16,195	2,816,619	2,814,314	2,809,340	2,805,597	173.6	173.6	173.6	173.2
23	300	999	6,609	6,603	6,605	6,615	2,846,610	2,843,404	2,844,497	2,847,177	430.7	430.6	430.7	430.4
Total			86,115	86,114	86,114	86,114	7,894,665	7,887,755	7,886,511	7,884,105	91.7	91.6	91.6	91.6



Mean TLD

TLD	Fixed	DoMin	TPTS	WTC	
Mean (1)	91.7	91.6	91.6	91.6	without IZ trips
Mean (2)	87.1	87.0	87.0	87.0	with IZ trips

Accident Benefit Summary

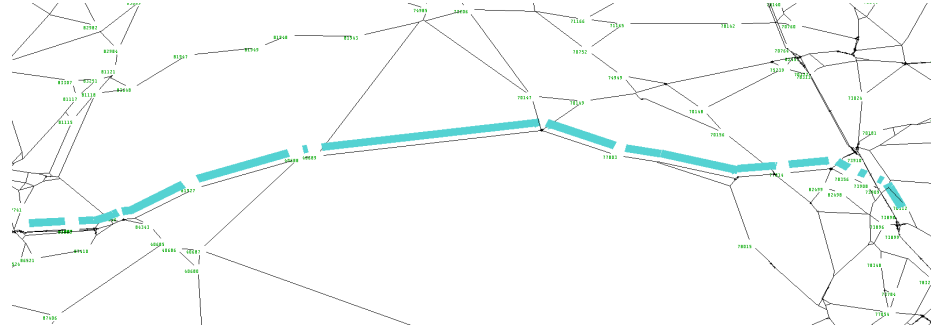
Element	TPTS Only			Optimised Package		
Economic Summary (£000s)						
without-Scheme Accident Costs	26,622,468			26,622,466		
with-Scheme Accident Costs	26,516,250			26,488,464		
Accident Benefits	106,218			134,002		
Accident Summary						
without-Scheme Accidents	676,358			676,358		
with-Scheme Accidents	674,103			673,348		
Accidents saved	2,255			3,011		
Casualty Summary	Fatal	Serious	Slight	Fatal	Serious	Slight
without-Scheme Casualties	7,353	83,455	846,696	7,353	83,455	846,696
with-Scheme Casualties	7,324	83,035	843,979	7,331	82,891	843,441
Casualties saved	29	420	2,718	22	564	3,256

JTs for DM & DS 2041 with FSA AM/IP/PM from M67 J3 to M1 J35

Route Info

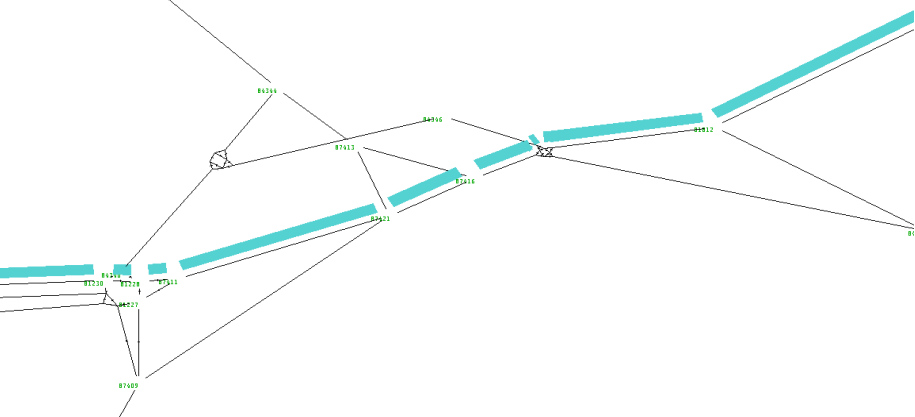
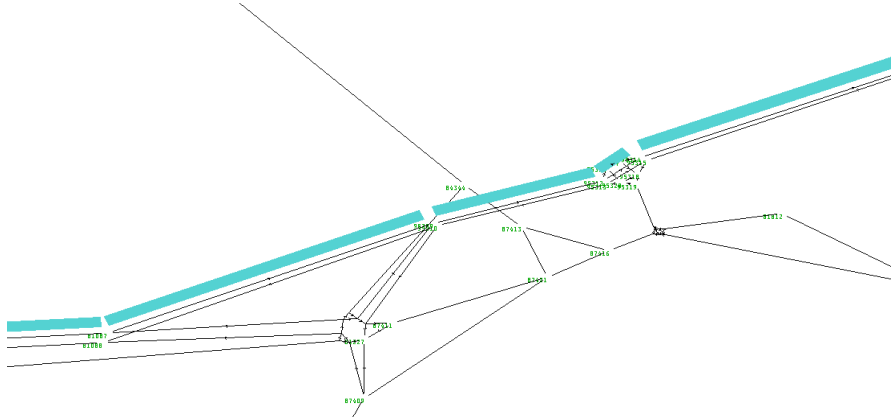
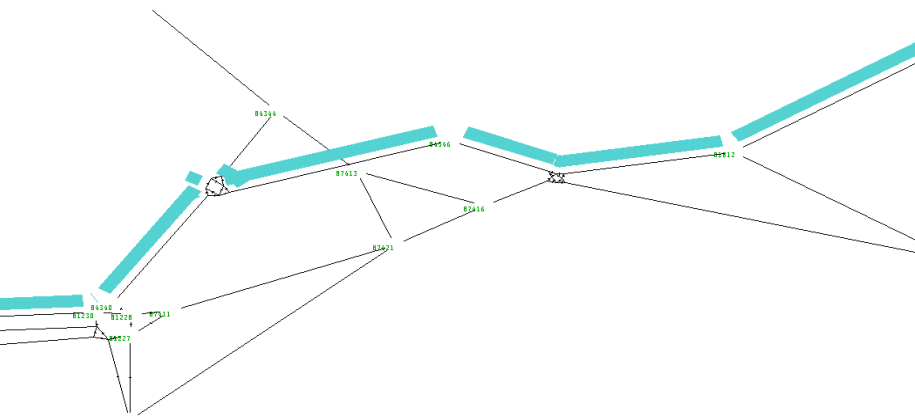
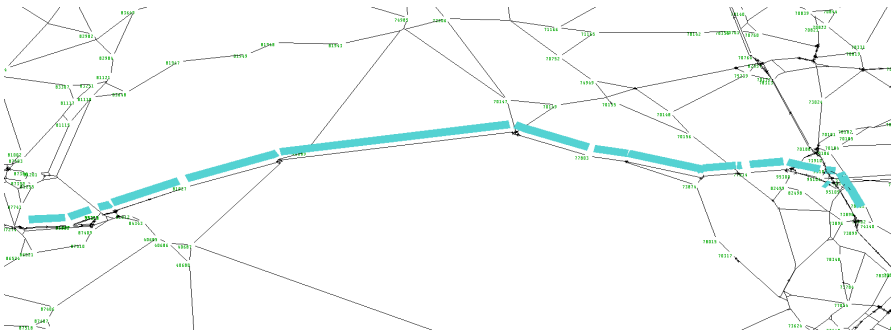
DM M67 to M1

Nodes 80203 73898



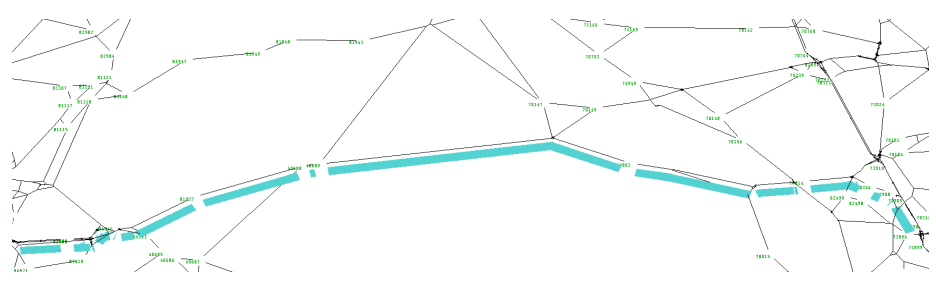
DS M67 to M1

Nodes 80203 73898



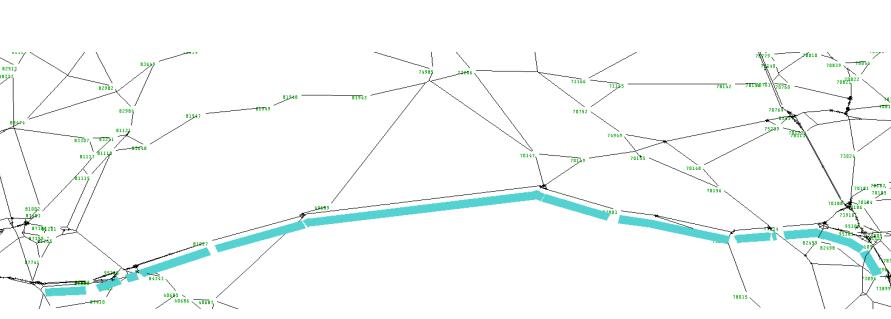
DM M1 to M67

Nodes 73897 87277



DS M1 to M67

Nodes 73897 87277



Results - Summary

SATURN Joyrides	AM			IP			PM		
	DM via Mottram Bypass	DS	TPT Time Saving	DM via Mottram Bypass	DS	TPT Time Saving	DM via Mottram Bypass	DS	TPT Time Saving
M67 J3 - M1 J35	52:30	32:09	20:21	48:06	30:46	17:20	47:12	28:28	18:44
M1 J35 - M67 J3	45:08	27:52	17:16	43:53	28:38	15:15	46:04	28:10	17:54

Results - All

DM AM M67 J3 to M1 J35
via Mottram Bypass

FROM 80203
TO 73898

Cumulative:

NODE = 73898
Priority
Time = 3150
Delay= 941
Dist = 46940
Speed= 53.64
FCost= 3831

DM AM M67 J3 to M1 J35
via Mottram

FROM 80203
TO 73898

Cumulative:

NODE = 73898
Priority
Time = 3150
Delay= 910
Dist = 47043
Speed= 53.76
FCost= 3832

DS AM M67 J3 to M1 J35
via TPT

FROM 80203
TO 73898

Cumulative:

NODE = 73898
Priority
Time = 1929
Delay= 453
Dist = 46082
Speed= 85.99
FCost= 2597

DM IP M67 J3 to M1 J35
via Mottram Bypass

FROM 80203
TO 73898

Cumulative:

NODE = 73898
Priority
Time = 2886
Delay= 681
Dist = 46940
Speed= 58.55
FCost= 3550

DM IP M67 J3 to M1 J35
via Mottram

FROM 80203
TO 73898

Cumulative:

NODE = 73898
Priority
Time = 2881
Delay= 642
Dist = 47043
Speed= 58.79
FCost= 3546

DS IP M67 J3 to M1 J35
via TPT

FROM 80203
TO 73898

Cumulative:

NODE = 73898
Priority
Time = 1846
Delay= 370
Dist = 46082
Speed= 89.89
FCost= 2497

DM PM M67 J3 to M1 J35
via Mottram Bypass

FROM 80203
TO 73898

Cumulative:

NODE = 73898
Priority
Time = 2832
Delay= 614
Dist = 46940
Speed= 59.68
FCost= 3502

DM PM M67 J3 to M1 J35
via Mottram

FROM 80203
TO 73898

Cumulative:

NODE = 73898
Priority
Time = 2827
Delay= 578
Dist = 47043
Speed= 59.91
FCost= 3499

DS PM M67 J3 to M1 J35
via TPT

FROM 80203
TO 73898

Cumulative:

NODE = 73898
Priority
Time = 1708
Delay= 232
Dist = 46082
Speed= 97.13
FCost= 2366

DM AM M1 J35 to M67 J3
via Mottram Bypass

FROM 73897
TO 87277

Cumulative:

NODE = 87277
Priority
Time = 2708
Delay= 576
Dist = 47487
Speed= 63.12
FCost= 3396

DM AM M1 J35 to M67 J3
via Mottram

FROM 73897
TO 87277

Cumulative:

NODE = 87277
Priority
Time = 2686
Delay= 549
Dist = 47376
Speed= 63.50
FCost= 3372

DS AM M1 J35 to M67 J3
via TPT

FROM 73897
TO 87277

Cumulative:

NODE = 87277
Priority
Time = 1672
Delay= 208
Dist = 45560
Speed= 98.10
FCost= 2332

DM IP M1 J35 to M67 J3
via Mottram Bypass

FROM 73897
TO 87277

Cumulative:

NODE = 87277
Priority
Time = 2633
Delay= 503
Dist = 47487
Speed= 64.92
FCost= 3305

DM IP M1 J35 to M67 J3
via Mottram

FROM 73897
TO 87277

Cumulative:

NODE = 87277
Priority
Time = 2638
Delay= 501
Dist = 47376
Speed= 64.66
FCost= 3308

DS IP M1 J35 to M67 J3
via TPT

FROM 73897
TO 87277

Cumulative:

NODE = 87277
Priority
Time = 1718
Delay= 256
Dist = 45560
Speed= 95.49
FCost= 2362

DM PM M1 J35 to M67 J3
via Mottram Bypass

FROM 73897
TO 87277

Cumulative:

NODE = 87277
Priority
Time = 2764
Delay= 614
Dist = 47487
Speed= 61.85
FCost= 3442

DM PM M1 J35 to M67 J3
via Mottram

FROM 73897
TO 87277

Cumulative:

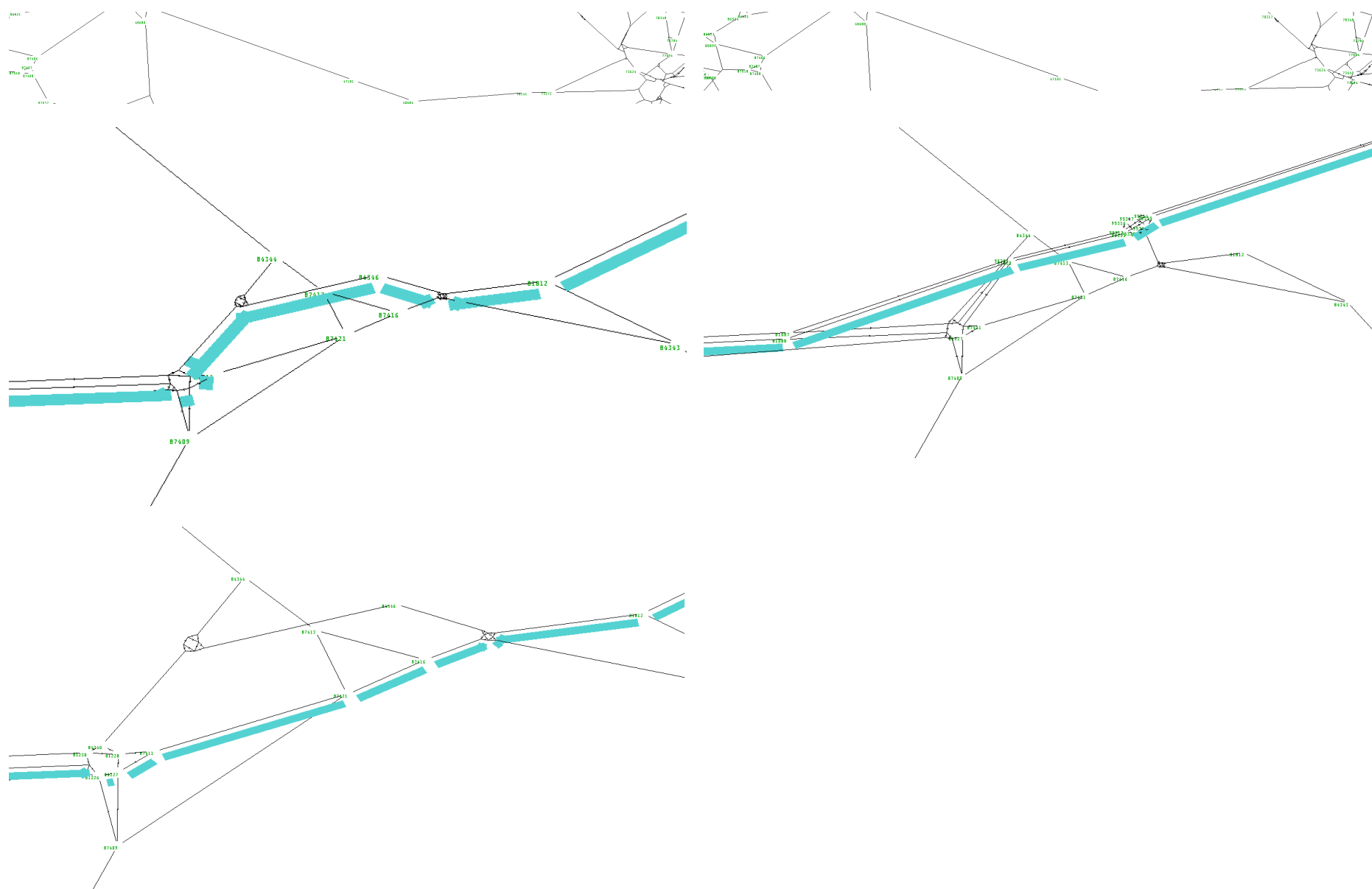
NODE = 87277
Priority
Time = 2753
Delay= 602
Dist = 47376
Speed= 61.94
FCost= 3430

DS PM M1 J35 to M67 J3
via TPT

FROM 73897
TO 87277

Cumulative:

NODE = 87277
Priority
Time = 1690
Delay= 228
Dist = 45560
Speed= 97.03
FCost= 2341



3150
2708

1929
1672

2886
2633

1846
1718

2832
2764

1708
1690

Journey Time Summary

Do-Minimum

from M67 J3 to M1 J35

No	Node	Location	Distance	JT_AM	JT_IP	JT_PM
1	80203	M67 J3	0.000	00:00	00:00	00:00
2	81087		1.994	01:04	01:04	01:04
3	81230	Mottram Bypass West	3.125	02:22	02:37	05:24
4	84340		3.165	02:25	02:40	05:27
5	84341		3.681	02:58	03:13	06:01
6	84815		3.731	03:23	03:42	06:34
7	84816		3.771	03:27	03:46	06:38
8	84822		3.811	03:51	04:09	06:59
9	84823		3.861	03:54	04:12	07:02
10	84346		4.341	04:24	04:43	07:32
11	82502		4.748	04:50	05:08	07:57
12	84835		4.798	05:16	05:42	08:20
13	84827	Mottram Bypass East	4.848	05:19	05:46	08:23
14	81812		5.158	06:20	06:44	09:21
15	81927		8.972	08:52	09:17	11:53
16	40688		14.526	15:59	16:25	18:05
17	40689		15.459	16:43	17:10	18:48
18	70146	A628/A616 Roundabout	27.260	27:44	28:03	28:45
19	75035		27.298	27:54	28:13	28:55
20	75036		27.336	27:58	28:17	28:59
21	75033		27.372	28:02	28:22	29:03
22	75030		27.407	28:06	28:25	29:06
23	77803		31.515	31:31	31:50	32:37
24	70334		33.515	33:23	33:40	34:26
25	74147		33.567	33:25	33:42	34:27
26	73871		37.422	36:51	37:06	37:46
27	73872		37.548	36:58	37:13	37:53
28	73870		37.570	36:59	37:13	37:54
29	73868		37.625	37:04	37:18	37:58
30	73875		39.408	41:43	39:24	39:42
31	75131		39.449	41:46	39:27	39:44
32	77814		39.901	42:07	39:48	40:05
33	75132	A61	42.181	44:29	42:04	42:17
34	75136		42.223	47:52	43:30	43:01
35	75140		42.266	47:58	43:36	43:07
36	75139		42.304	48:04	43:42	43:12
37	75137		42.340	48:07	43:45	43:15
38	78356		43.317	48:51	44:30	44:01
39	73908		44.377	50:21	45:48	45:11
40	73912		45.057	51:04	46:30	45:53
41	70057		45.357	51:17	46:41	46:04
42	73898	M1 J35	46.940	52:15	47:37	47:00
				53.9	59.1	59.9

from M1 J35 to M67 J3

No	Node	Location	Distance	JT_AM	JT_IP	JT_PM
1	73897	M1 J35	0.000	00:00	00:00	00:00

Do-Something

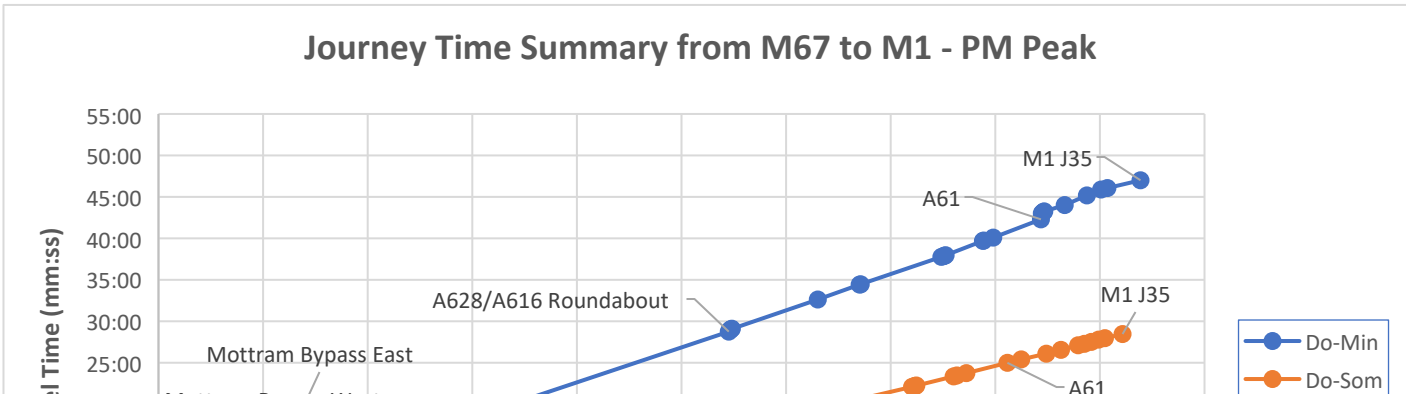
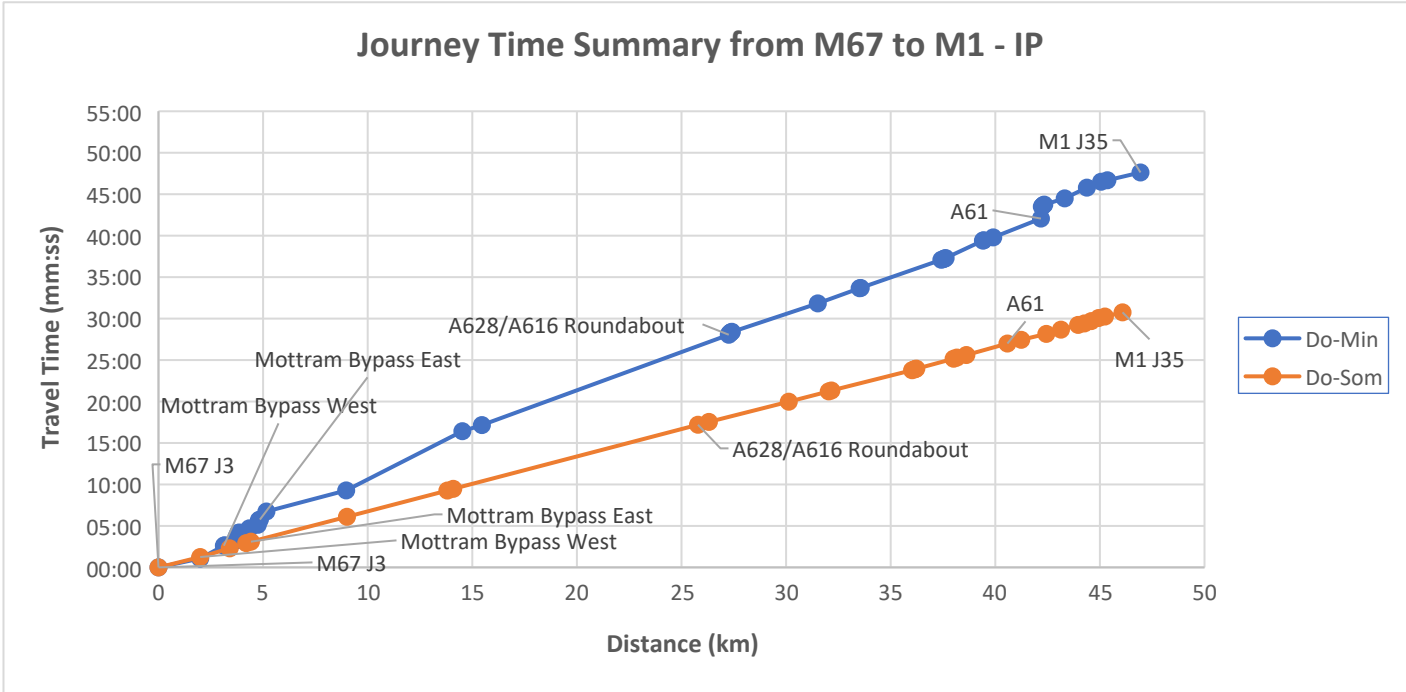
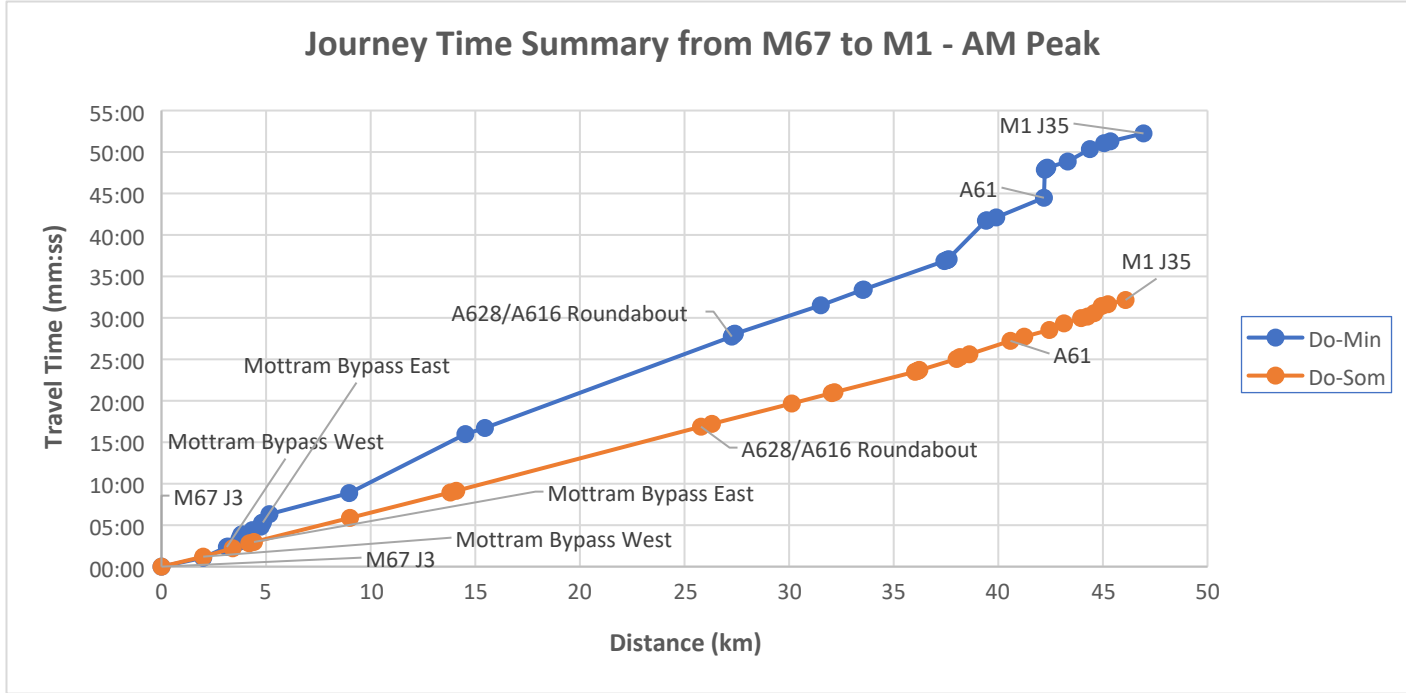
from M67 J3 to M1 J35

No	Node	Location	Distance	JT_AM	JT_IP	JT_PM
1	80203	M67 J3	0.000	00:00	00:00	00:00
2	81087	Mottram Bypass West	1.994	01:12	01:15	01:13
3	95309		3.404	02:13	02:18	02:13
4	95312		4.194	02:49	02:56	02:49
5	95314	Mottram Bypass East	4.419	02:59	03:06	02:58
6	81927		9.009	05:53	06:06	05:46
7	95321		13.809	08:56	09:16	08:43
8	95322		14.089	09:09	09:28	08:54
9	95304	A628/A616 Roundabout	25.789	16:53	17:12	16:00
10	95305		26.310	17:13	17:33	16:18
11	77803		30.128	19:40	19:59	18:35
12	95303		32.038	20:56	21:13	19:44
13	74147		32.166	21:02	21:20	19:49
14	73871		36.021	23:30	23:47	22:06
15	73872		36.147	23:37	23:53	22:12
16	73870		36.169	23:38	23:54	22:12
17	73868		36.224	23:43	23:58	22:15
18	73875		38.007	25:03	25:10	23:21
19	75131		38.164	25:16	25:18	23:28
20	77814		38.616	25:37	25:36	23:45
21	95301	A61	40.579	27:14	27:00	25:00
22	78356		41.239	27:44	27:26	25:24
23	95101		42.439	28:32	28:09	26:06
24	95501		43.139	29:20	28:40	26:33
25	95107		43.959	29:58	29:14	27:06
26	95507		44.259	30:09	29:25	27:17
27	73912		44.589	30:34	29:42	27:31
28	70057		44.939	31:26	30:04	27:47
29	95112		45.239	31:39	30:15	27:58
30	73898	M1 J35	46.082	32:09	30:45	28:28
				86.0	89.9	97.1

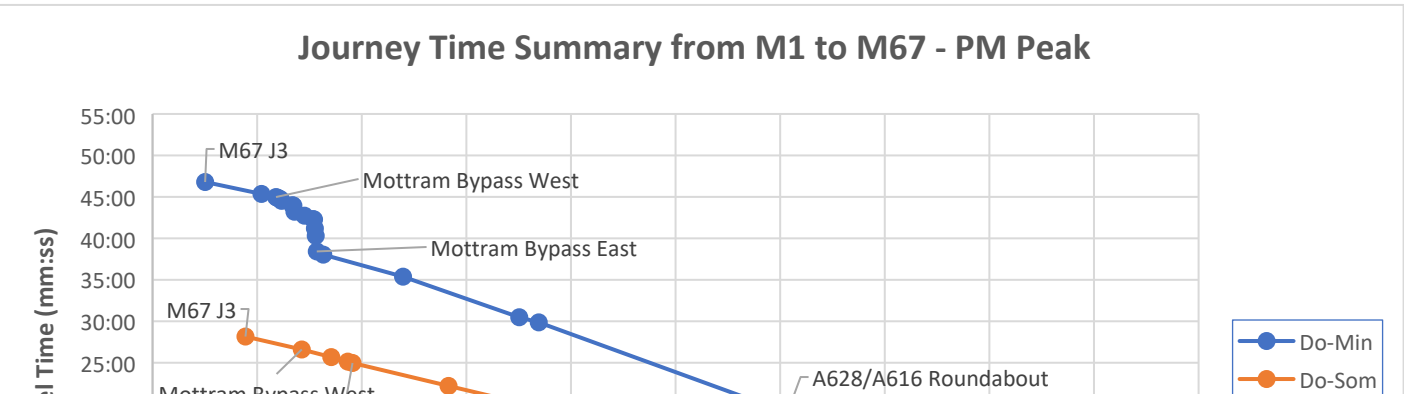
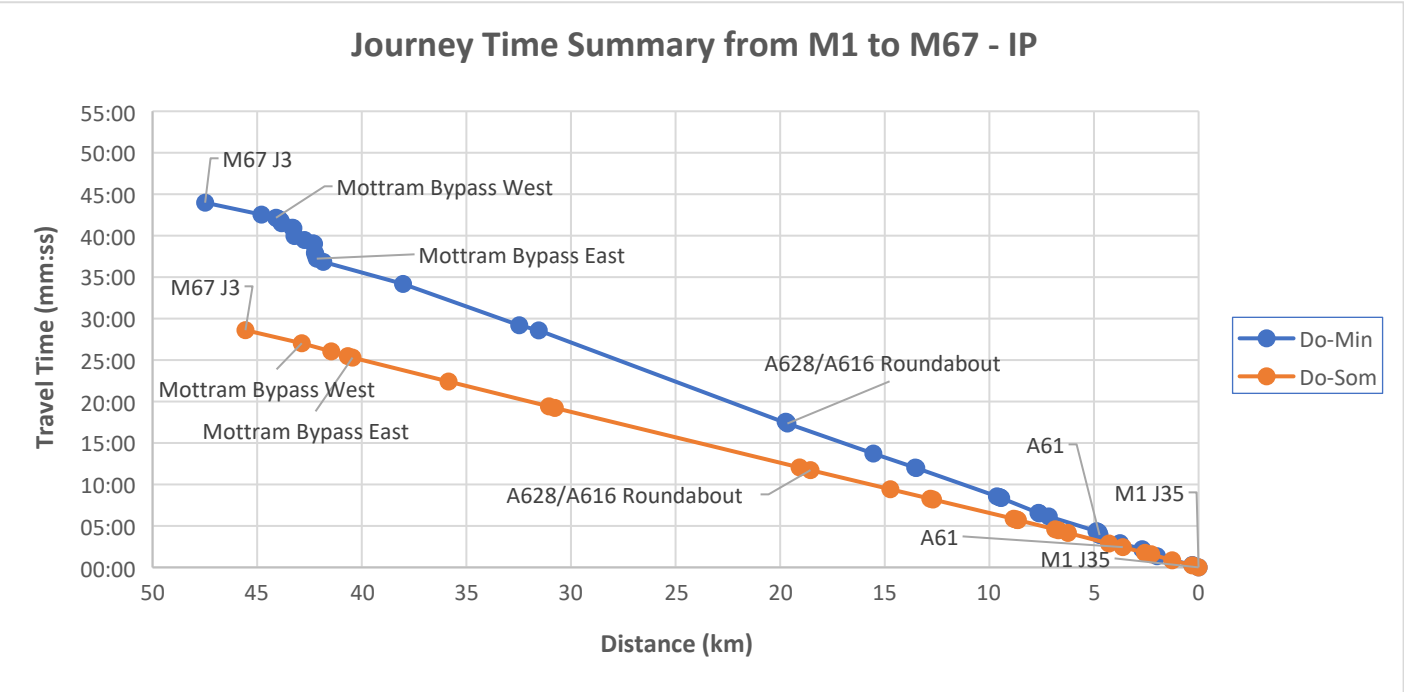
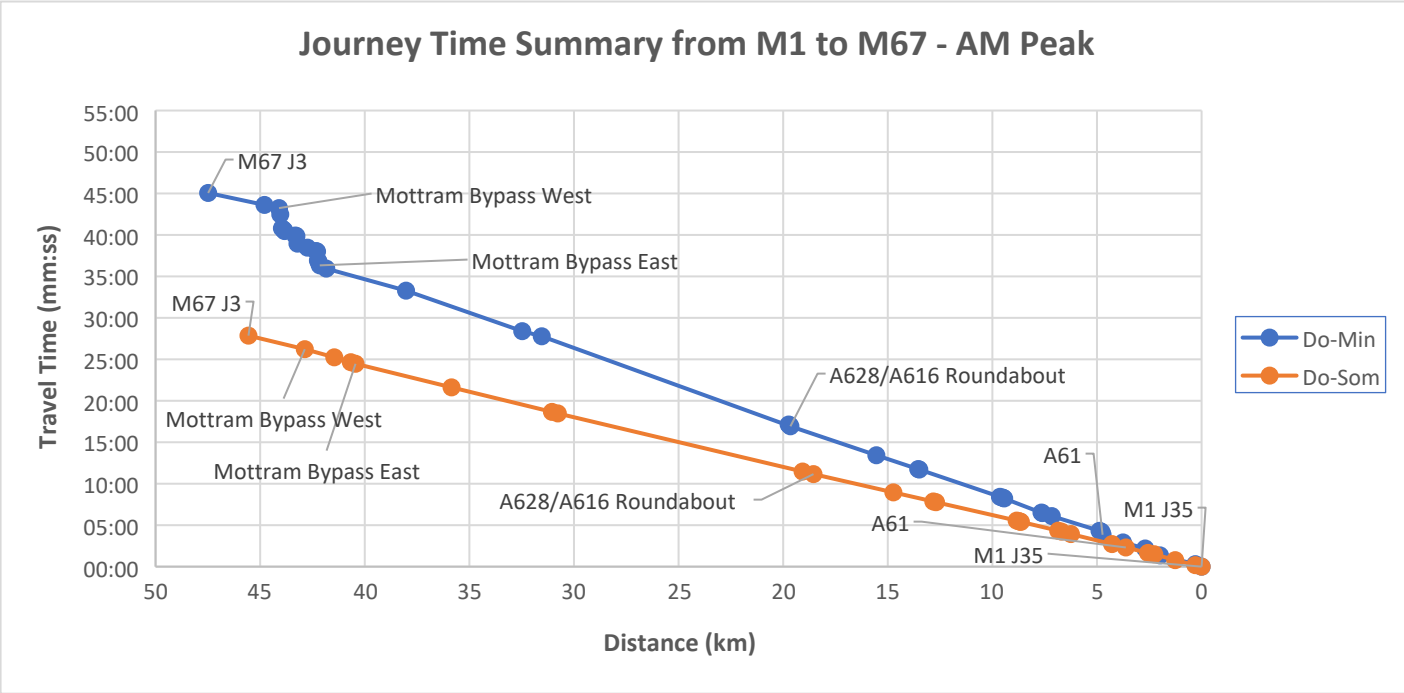
from M1 J35 to M67 J3

No	Node	Location	Distance	JT_AM	JT_IP	JT_PM
1	73897	M1 J35	0.000	00:00	00:00	00:00

EB



WB



Analysis

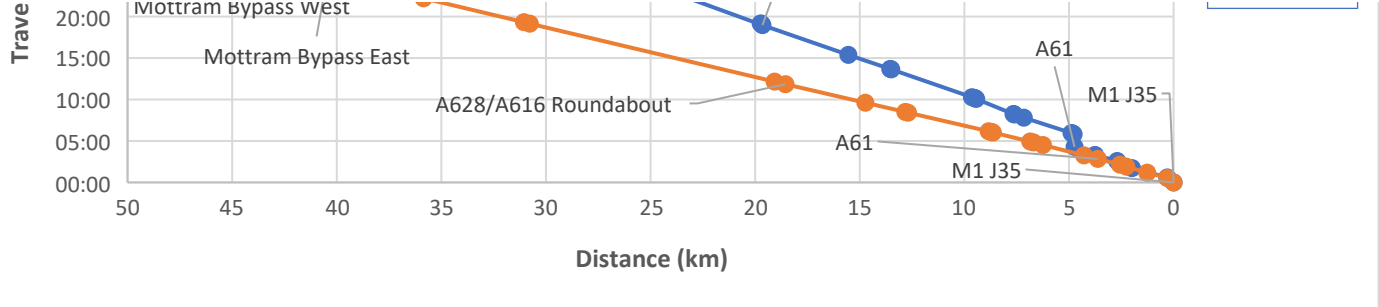
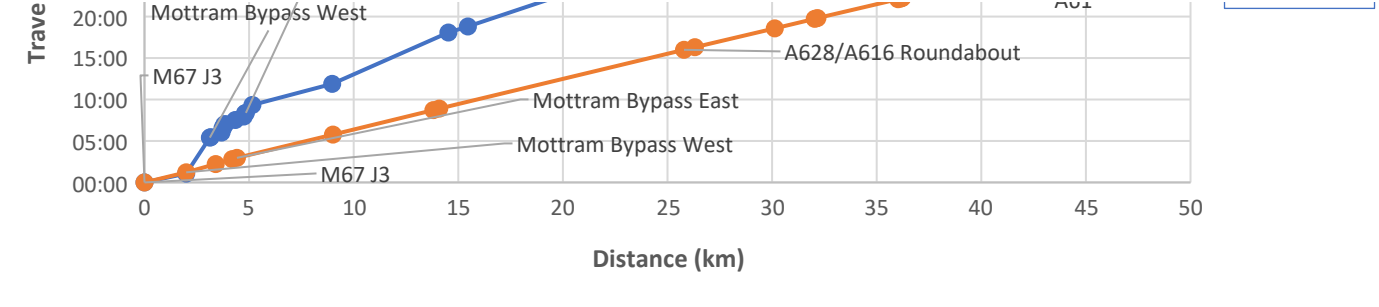
This data shows that significant delays occur in the DM at the following locations:

EB AM: Mottram Bypass, Stocksbridge/Deepcar Junction to A629 & A61 Roundabout
EB IP: similar pattern to AM (smaller delays)
EB PM: M67 into Mottram Roundabout & Mottram Bypass

WB AM: Mottram Bypass
WB IP/PM: similar pattern to AM

2	70061	0.300	00:18	00:17	00:36
3	73909	1.987	01:21	01:21	01:44
4	73908	2.696	02:11	02:11	02:35
5	78356	3.756	02:55	02:55	03:19
6	75137 A61	4.733	03:51	03:54	04:17
7	75138	4.777	04:10	04:13	05:49
8	75135	4.827	04:15	04:18	05:54
9	75132	4.880	04:19	04:22	05:58
10	77814	7.160	06:06	06:08	07:49
11	75131	7.612	06:28	06:31	08:12
12	73875	7.653	06:31	06:35	08:15
13	73868	9.436	08:14	08:22	10:04
14	73870	9.491	08:18	08:27	10:10
15	73872	9.513	08:19	08:27	10:10
16	73871	9.639	08:25	08:34	10:17
17	74147	13.494	11:43	11:59	13:38
18	70334	13.546	11:46	12:02	13:41
19	77803	15.546	13:26	13:44	15:23
20	75030 A628/A616 Roundabout	19.654	16:55	17:21	18:58
21	75032	19.697	17:05	17:30	19:07
22	70146	19.739	17:08	17:34	19:11
23	40689	31.540	27:47	28:35	29:52
24	40688	32.473	28:24	29:12	30:29
25	81927	38.027	33:17	34:11	35:23
26	81812	41.841	35:56	36:50	38:02
27	84827 Mottram Bypass East	42.151	36:20	37:14	38:25
28	84828	42.201	36:43	37:38	40:18
29	84830	42.241	36:55	37:56	41:12
30	84834	42.281	38:00	39:01	42:17
31	82502	42.331	38:03	39:04	42:20
32	84346	42.738	38:28	39:29	42:44
33	84823	43.218	38:57	39:57	43:13
34	84826	43.268	39:53	40:54	43:57
35	84341	43.318	39:56	40:58	44:00
36	84340	43.834	40:28	41:30	44:31
37	81228	43.874	40:37	41:47	44:42
38	81227	43.961	40:48	42:00	44:49
39	81226	44.039	42:28	42:04	44:54
40	87412 Mottram Bypass West	44.099	43:14	42:10	44:59
41	81088	44.794	43:37	42:32	45:21
42	87277 M67 J3	47.487	45:04	43:59	46:48
			63.2	64.8	60.9

2	70061	0.300	00:11	00:15	00:32
3	95109	1.262	00:47	00:51	01:11
4	95506	2.262	01:30	01:35	01:55
5	73908	2.562	01:40	01:45	02:09
6	78356 A61	3.622	02:19	02:27	02:51
7	95301	4.282	02:43	02:53	03:16
8	77814	6.245	03:56	04:09	04:31
9	75131	6.697	04:14	04:29	04:50
10	73875	6.854	04:20	04:36	04:56
11	73868	8.637	05:24	05:42	06:01
12	73870	8.692	05:27	05:45	06:04
13	73872	8.714	05:28	05:46	06:05
14	73871	8.840	05:33	05:52	06:10
15	74147	12.695	07:46	08:11	08:25
16	95303	12.823	07:52	08:17	08:30
17	77803	14.733	08:57	09:25	09:37
18	95305 A628/A616 Roundabout	18.551	11:10	11:44	11:51
19	95304	19.072	11:28	12:03	12:09
20	95322	30.772	18:29	19:14	19:09
21	95321	31.052	18:40	19:25	19:20
22	81927	35.852	21:37	22:25	22:12
23	95315 Mottram Bypass East	40.442	24:28	25:18	24:58
24	95313	40.667	24:39	25:28	25:08
25	95310	41.457	25:14	26:03	25:41
26	81088 Mottram Bypass West	42.867	26:13	27:02	26:36
27	87277 M67 J3	45.560	27:51	28:36	28:10
			98.1	95.6	97.1
			14:37	13:28	16:44



SATURN Assignment Summary

Summary	Do-Minimum 2041			Optimised Package 2041			Difference		
	AM Peak	Inter-Peak	PM Peak	AM Peak	Inter-Peak	PM Peak	AM Peak	Inter-Peak	PM Peak
Matrix Total Summary									
Business	385,156	404,452	402,575	385,136	404,256	402,270	-20	-196	-304
Commuting	2,650,111	1,008,969	2,494,167	2,650,139	1,008,917	2,494,446	27	-52	279
Other	2,634,678	3,349,695	3,758,417	2,634,819	3,349,552	3,758,792	141	-143	374
LGV	856,046	785,257	831,477	856,046	785,257	831,477	0	0	0
HGV	341,974	353,746	249,026	341,974	353,746	249,026	0	0	0
Total	6,867,965	5,902,119	7,735,661	6,868,113	5,901,728	7,736,010	148	-391	349
Network Statistics									
Over-capacity queues (veh.hrs)									
Car	33,444	12,552	42,175	32,703	11,636	41,787	-741	-917	-388
LGV	4,715	1,755	4,963	4,576	1,649	4,797	-140	-106	-167
HGV	7,045	3,027	4,395	6,594	2,638	4,105	-451	-389	-290
Total travel time (veh.hrs)									
Car	1,254,584	765,845	1,378,634	1,255,943	766,977	1,380,414	1,359	1,133	1,780
LGV	195,799	151,961	185,890	195,509	151,704	185,551	-290	-257	-339
HGV	255,889	241,826	184,143	255,153	241,063	183,537	-736	-763	-606
Total travel distance (veh.kms)									
Car	92,582,956	57,933,794	99,959,855	92,851,003	58,205,996	100,254,267	268,048	272,202	294,412
LGV	14,520,503	12,005,198	13,738,349	14,521,459	12,007,201	13,738,470	957	2,003	121
HGV	19,197,754	19,723,248	13,814,626	19,191,219	19,719,303	13,812,815	-6,535	-3,944	-1,811
Average speed (kph)									
Car	73.8	75.6	72.5	73.9	75.9	72.6	0.1	0.3	0.1
LGV	74.2	79.0	73.9	74.3	79.1	74.0	0.1	0.1	0.1
HGV	75.0	81.6	75.0	75.2	81.8	75.3	0.2	0.2	0.3

Purpose	Eastbound		Westbound		Total	
	Volume	Proportion	Volume	Proportion	Volume	Proportion
Car - Business	23,000	54%	19,800	54%	42,800	54%
car - Commute	2,300	5%	2,100	6%	4,400	6%
Car - Other	10,500	25%	8,900	24%	19,400	24%
Freight	6,800	16%	5,900	16%	12,700	16%
Total	42,600	100%	36,700	100%	79,300	100%

TUBA User Benefit Summary - Fixed demand

Package	TPTS only	preferred package	full package
Consumer User (Corporate)	282,666	808,966	869,771
Consumer User (Other)	392,800	963,257	1,046,413
Business User and Firm	1,616,573	3,818,502	4,154,606
Private sector providers	-1,779	-5,480	-5,718
Indirect Tax Revenue	148,513	161,305	170,762
Greenhouse Gas	-89,737	-64,426	-77,127
Total	2,349,035	5,682,124	6,158,707

TUBA Benefit Summary - VDM

Package	TPTS only			Optimised Package - Core Scenario			Optimised Package - Low Growth			Optimised Package - Transformational		
	VDM	with UDF	%Diff	VDM	with UDF	%Diff	VDM	with UDF	%Diff	VDM	with UDF	%Diff
Consumer User (Corporate)	202,740	218,666	8%	531,941	608,806	14%	496,052	537,681	8%	673,153	699,992	4%
Consumer User (Other)	231,400	348,259	51%	619,692	755,689	22%	527,214	582,223	10%	833,258	840,552	1%
Business User and Firm	1,475,607	1,649,827	12%	3,014,825	3,273,272	9%	3,182,083	3,309,134	4%	3,188,763	3,322,482	4%
Private sector providers	-3,196	-3,306	3%	-4,395	-4,437	1%	-4,014	-4,458	11%	-5,613	-3,883	-31%
Indirect Tax Revenue	189,840	187,105	-1%	381,819	372,293	-2%	320,820	317,411	-1%	306,369	311,184	2%
Greenhouse Gas	-109,021	-98,816	-9%	-227,459	-195,078	-14%	-104,410	-56,423	-46%	-172,181	-162,429	-6%
Total	1,987,370	2,301,735	16%	4,316,423	4,810,544	11%	4,417,744	4,685,568	6%	4,823,749	5,007,898	4%

WITA Level 2 Benefits

Package	TPTS only		Optimised Package		Transformational	
	WITA	Adjusted	WITA	Adjusted	WITA	Adjusted
Agglomeration impacts	2,174,003	1,739,202	3,853,884	3,083,107	3,833,207	3,066,566
Change in imperfect competition	129,559	129,559	235,147	235,147	235,085	235,085
Labour supply impacts	8,382	8,382	20,024	20,024	22,434	22,434
Move to more/less productive	0	0	0	0	0	0
Total	2,311,944	1,877,144	4,109,055	3,338,278	4,090,726	3,324,084

Reliability Impacts

Package	TPTS only		Optimised Package		Low Growth		Transformational	
	VDM	with UDF	VDM	with UDF	VDM	with UDF	VDM	with UDF
TUBA Time Saving benefits	1,976,368	2,271,776	4,297,581	4,739,154	4,277,373	4,489,920	4,717,557	4,896,334
Reliability Benefits	197,637	227,178	429,758	473,915	427,737	448,992	471,756	489,633

Purpose	Low Growth				NTEM Core				Difference from NTEM Core			
	Time	Charges	VOC	Total	Time	Charges	VOC	Total	Time	Charges	VOC	Total
Commuting	510,608	-15	-14,541	496,052	562,735	-103	-30,691	531,941	-52,126	87	16,150	-35,889
Other	709,673	-196	-182,263	527,214	866,845	-284	-246,868	619,692	-157,172	88	64,605	-92,479
Business (Car)	2,107,353	944	60,082	2,168,378	2,124,037	941	68,172	2,193,151	-16,685	3	-8,090	-24,773

Business (Freight)	949,739	4,182	59,784	1,013,704	743,964	2,116	75,594	821,674	205,775	2,066	-15,811	192,030
Operators				-4,014				-4,395	0	0	0	381
Greenhouse Gas				-104,410				-227,459	0	0	0	123,049
Indirect Tax				320,820				381,819	0	0	0	-60,999
Total	4,277,373	4,914	-76,939	4,417,744	4,297,581	2,670	-133,793	4,316,423	-20,208	2,244	56,854	101,321

Without UDF

Purpose	Low Growth				NTEM Core				TfN Transformational			
	Time	Charges	VOC	Total	Time	Charges	VOC	Total	Time	Charges	VOC	Total
Commuting	510,608	-15	-14,541	496,052	562,735	-103	-30,691	531,941	678,933	-64	-5,715	673,153
Other	709,673	-196	-182,263	527,214	866,845	-284	-246,868	619,692	981,736	-229	-148,249	833,258
Business (Car)	2,107,353	944	60,082	2,168,378	2,124,037	941	68,172	2,193,151	2,194,575	1,132	57,104	2,252,811
Business (Freight)	949,739	4,182	59,784	1,013,704	743,964	2,116	75,594	821,674	862,313	4,260	69,379	935,952
Operators				-4,014				-4,395				-5,613
Greenhouse Gas				-104,410				-227,459				-172,181
Indirect Tax				320,820				381,819				306,369
Total	4,277,373	4,914	-76,939	4,417,744	4,297,581	2,670	-133,793	4,316,423	4,717,557	5,098	-27,481	4,823,749

With UDF

Purpose	Low Growth				NTEM Core				TfN Transformational				Difference from NTEM Core			
	Time	Charges	VOC	Total	Time	Charges	VOC	Total	Time	Charges	VOC	Total	Time	Charges	VOC	Total
Commuting	552,076	-70	-14,326	537,681	641,950	-149	-32,996	608,806	708,264	-95	-8,177	699,992	66,314	53	24,819	91,187
Other	762,695	-252	-180,220	582,223	995,696	-349	-239,659	755,689	1,019,051	-328	-178,172	840,552	23,355	21	61,487	84,863
Business (Car)	2,193,705	448	64,868	2,259,021	2,270,285	672	80,511	2,351,467	2,279,182	1,030	70,639	2,350,851	8,897	359	-9,872	-616
Business (Freight)	981,444	5,208	63,462	1,050,113	831,223	2,516	88,066	921,804	889,837	2,728	79,067	971,631	58,614	212	-8,999	49,827
Operators				-4,458				-4,437				-3,883				553
Greenhouse Gas				-56,423				-195,078				-162,429				32,648
Indirect Tax				317,411				372,293				311,184				-61,108
Total	4,489,920	5,334	-66,216	4,685,568	4,739,154	2,690	-104,078	4,810,544	4,896,334	3,335	-36,643	5,007,898	157,180	645	67,435	197,353

Package	1	2	2	2	2	2	1	1	1	
CAPEX (£m)	2027	2028	2028	2028	2027	2030	2033	2028	2027	
Scheme	M67, M60 to A57	M60 J24 to 25	M18 J1a to 2	M1 J35a to 36	A6 to M60	M1 to M18	A628 + Tunnel	A616 dualling to M1	Denton Bypass	Total
Base estimate	43.00	21.50	30.60	16.00	443.80	878.50	3,013.80	342.40	348.30	5,137.90
Risk	8.40	4.30	6.20	3.20	69.70	159.40	747.40	81.60	70.30	1,150.50
Uncertainty Allowance	0.20	0.00	0.00	0.00	5.10	14.00	99.60	3.10	0.30	122.30
Sub-total	51.60	25.70	36.70	19.20	518.70	1,051.90	3,860.80	427.10	418.90	6,410.60
Inflation Adjustment	23.30	15.10	22.70	11.50	237.80	680.60	2,963.20	243.20	209.60	4,407.00
Portfolio Risk	8.90	5.30	6.70	4.10	75.50	170.20	661.80	68.70	61.40	1,062.60
Adjustment sub-total	32.10	20.40	29.40	15.70	313.20	850.80	3,625.00	311.90	271.00	5,469.50
Estimated Outturn Costs										
TPTS Only	83.80						7,485.80	739.00	689.90	8,998.50
Optimised Package	83.80	46.10	66.10	34.80	832.00	1,902.70	7,485.80	739.00	689.90	11,880.20

Deflated to 2010	£76.23	£41.93	£60.13	£31.66	£756.83	£1,730.79	£6,809.47	£672.23	£627.57	£10,806.85
Discounted to 2010	£45.91	£23.22	£32.52	£17.17	£438.10	£904.35	£3,398.11	£362.90	£364.66	£5,586.93
Convert to market price	£54.63	£27.63	£38.70	£20.44	£521.34	£1,076.17	£4,043.75	£431.85	£433.94	£6,648.45

OPEX (£m)										
Scheme	M67, M60 to A57	M60 J24 to 25	M60 J1a to 2	M1 J35a to 36	A6 to M60	M1 to M18	A628 + Tunnel	A616 dualling to M1	Denton Bypass	Total
OPEX 2010 Cost	£7.69	£5.12	£1.81	£1.81	£76.70	£190.28	£1,055.67	£113.20	£5.12	£1,457.39
Single Year cost 2010	£0.13	£0.09	£0.03	£0.03	£1.28	£3.17	£17.59	£1.89	£0.09	£24.29
Discounted to 2010	£2.31	£1.50	£0.53	£0.53	£22.99	£53.45	£278.71	£33.20	£1.53	£394.74
Convert to market price	£2.74	£1.79	£0.63	£0.63	£27.36	£63.60	£331.66	£39.50	£1.83	£469.74

TPTS Only Optimised Package		
Present Value of Cost		
CAPEX	£4,964.17	£6,648.45
OPEX	£375.74	£469.74
Total	£5,339.91	£7,118.20
Present Value of Benefit		
TUBA	£2,301.73	£4,810.54
Accident	£106.22	£134.00
Construction	-£0.03	-£0.03
Reliability	£227.18	£473.92
WITA	£1,877.14	£3,338.28
Initial BCR	0.43	0.68
Adjusted BCR	0.85	1.23

Expenditure Profile	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
M67, M60 to A57		0.35%	1.21%	1.55%	2.08%	1.89%	19.51%	54.76%	17.83%	0.52%	0.17%	0.06%	0.05%	0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
M60 J24 to 25		0.04%	0.10%	0.11%	0.11%	0.10%	0.11%	0.08%	7.07%	65.59%	25.39%	0.32%	0.30%	0.29%	0.30%	0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
M18 J1a to 2		0.03%	0.07%	0.07%	0.07%	0.07%	0.08%	0.06%	4.53%	4.62%	89.04%	0.41%	0.26%	0.25%	0.24%	0.20%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%

WebTAG Databook Dec 18

Year		GDP	NRVAT	Total (incl Risk, Uncertainty & UIA) - FY 2015 / 2016	
2010	100.00		M67, M60 to	£0.0	£5,552,659
2011	101.92		M60 J24 to 2	£0.0	£0
2012	103.51		M18 J1a to 2	£0.0	£0
2013	105.44		M1 J35a to 3	£0.0	£0
2014	107.25		A6 to M60	£0.0	£64,696,600
2015	107.72		M1 to M18	£0.0	#####
2016	109.93		A628 + Tunnel	£0.0	#####
2017	112.36		Denton Bypass	£0.0	£63,094,721
2018	114.49		A616 dualling	£0.0	£45,269,479
2019	116.76				
2020	118.91				
2021	121.20				
2022	123.56				
2023	126.02				
2024	128.92				
2025	131.88				
2026	134.91				
2027	138.02				
2028	141.19				
2029	144.44				
2030	147.76				
2031	151.16				
2032	154.64				
2033	158.19				
2034	161.83				
2035	165.55				
2036	169.36				
2037	173.26				
2038	177.24				
2039	181.32				
2040	185.49				

M1 J35a to 36	£0.00	£0.02	£0.03	£0.04	£0.04	£0.03	£0.04	£0.02	£1.52	£1.13	£17.34	£0.07	£0.05	£0.05	£0.04	£0.02	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£20.44
A6 to M60	£0.00	£0.24	£5.82	£3.91	£9.30	£9.87	£7.50	£59.16	£311.05	£106.28	£5.12	£2.46	£0.26	£0.22	£0.14	£0.03	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£521.34
M1 to M18	£0.00	£0.26	£8.48	£4.74	£8.05	£17.34	£16.12	£7.01	£5.93	£28.14	£225.98	£363.99	£304.66	£80.66	£2.54	£0.82	£0.60	£0.48	£0.35	£0.04	£0.01	£0.00	£0.00	£1,076.17
A628 + Tunnel	£0.00	£0.27	£26.62	£18.35	£23.30	£56.64	£82.95	£38.99	£41.93	£34.61	£101.17	£491.94	£1,102.22	£1,060.15	£788.80	£168.02	£5.68	£0.60	£0.55	£0.51	£0.43	£0.01	£0.00	£4,043.75
A616 dualling to M1	£0.00	£0.00	£4.09	£3.85	£4.44	£7.30	£8.27	£5.25	£7.57	£69.73	£156.23	£136.48	£25.61	£1.62	£0.45	£0.39	£0.38	£0.17	£0.01	£0.00	£0.00	£0.00	£0.00	£431.85
Denton Bypass	£0.00	£0.24	£5.05	£4.90	£9.11	£2.72	£3.91	£70.82	£266.45	£68.21	£1.79	£0.56	£0.07	£0.07	£0.04	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£433.94
Total	£0.00	£1.30	£50.94	£36.83	£55.56	£95.06	£129.79	£210.96	£647.67	£328.44	£548.83	£995.76	£1,433.06	£1,142.93	£792.16	£169.36	£6.66	£1.25	£0.90	£0.55	£0.44	£0.01	£0.00	£6,648.45

Package	1	2	2	2	2	2	1	1	1	
CAPEX (£m)	2027	2028	2028	2028	2027	2030	2033	2028	2027	
Scheme	M67, M60 to A57	M60 J24 to 25	M18 J1a to 2	M1 J35a to 36	A6 to M60	M1 to M18	A628 + Tunnel	A616 dualling to M1	Denton Bypass	Total
Base estimate	43.00	21.50	30.60	16.00	443.80	878.50	3,013.80	342.40	348.30	5,137.90
Risk	8.40	4.30	6.20	3.20	69.70	159.40	747.40	81.60	70.30	1,150.50
Uncertainty Allowance	0.20	0.00	0.00	0.00	5.10	14.00	99.60	3.10	0.30	122.30
Sub-total	51.60	25.70	36.70	19.20	518.70	1,051.90	3,860.80	427.10	418.90	6,410.60
Inflation Adjustment	23.30	15.10	22.70	11.50	237.80	680.60	2,963.20	243.20	209.60	4,407.00
Portfolio Risk	8.90	5.30	6.70	4.10	75.50	170.20	661.80	68.70	61.40	1,062.60
Adjustment sub-total	32.10	20.40	29.40	15.70	313.20	850.80	3,625.00	311.90	271.00	5,469.50
Estimated Outturn Costs										
TPTS Only	83.80						7,485.80	739.00	689.90	8,998.50
Optimised Package	83.80	46.10	66.10	34.80	832.00	1,902.70	7,485.80	739.00	689.90	11,880.20

Deflated to 2010	£63.89	£33.26	£46.96	£24.77	£617.96	£1,320.51	£5,038.91	£524.05	£513.69	£8,183.99
Discounted to 2010	£38.52	£18.42	£25.41	£13.45	£358.13	£691.72	£2,524.02	£283.57	£298.81	£4,252.04
Convert to market price	£45.84	£21.92	£30.24	£16.00	£426.17	£823.15	£3,003.58	£337.45	£355.58	£5,059.92

OPEX (£m)										
Scheme	M67, M60 to A57	M60 J24 to 25	M60 J1a to 2	M1 J35a to 36	A6 to M60	M1 to M18	A628 + Tunnel	A616 dualling to M1	Denton Bypass	Total
OPEX 2010 Cost	£7.69	£5.12	£1.81	£1.81	£76.70	£190.28	£1,055.67	£113.20	£5.12	£1,457.39
Single Year cost 2010	£0.13	£0.09	£0.03	£0.03	£1.28	£3.17	£17.59	£1.89	£0.09	£24.29
Discounted to 2010	£2.31	£1.50	£0.53	£0.53	£22.99	£53.45	£278.71	£33.20	£1.53	£394.74
Convert to market price	£2.74	£1.79	£0.63	£0.63	£27.36	£63.60	£331.66	£39.50	£1.83	£469.74

TPTS Only Optimised Package

Present Value of Cost		
CAPEX	£3,742.44	£5,059.92
OPEX	£375.74	£469.74
Total	£4,118.18	£5,529.67
Present Value of Benefit		
TUBA	£2,301.73	£4,810.54
Accident	£106.22	£134.00
Construction	-£0.03	-£0.03
Reliability	£227.18	£473.92
WITA	£1,877.14	£3,338.28
Initial BCR	0.56	0.87
Adjusted BCR	1.10	1.58

Expenditure Profile	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
M67, M60 to A57		0.35%	1.21%	1.55%	2.08%	1.89%	19.51%	54.76%	17.83%	0.52%	0.17%	0.06%	0.05%	0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
M60 J24 to 25		0.04%	0.10%	0.11%	0.11%	0.10%	0.11%	0.08%	7.07%	65.59%	25.39%	0.32%	0.30%	0.29%	0.30%	0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
M18 J1a to 2		0.03%	0.07%	0.07%	0.07%	0.07%	0.08%	0.06%	4.53%	4.62%	89.04%	0.41%	0.26%	0.25%	0.24%	0.20%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%

WebTAG Databook Dec 18

Year	GDP	NRVAT	Total (incl Risk, Uncertainty & UIA) - FY 2015 / 2016
2010	100.00	M67, M60 to	£0.0 £5,552,659
2011	101.92	M60 J24 to 2	£0.0 £0
2012	103.51	M18 J1a to 2	£0.0 £0
2013	105.44	M1 J35a to 3	£0.0 £0
2014	107.25	A6 to M60	£0.0 £64,696,600
2015	107.72	M1 to M18	£0.0 #####
2016	109.93	A628 + Tunnel	£0.0 #####
2017	112.36	Denton Bypa	£0.0 £63,094,721
2018	114.49	A616 dualling	£0.0 £45,269,479
2019	116.76		
2020	118.91		
2021	121.20		
2022	123.56		
2023	126.02		
2024	128.92		
2025	131.88		
2026	134.91		
2027	138.02		
2028	141.19		
2029	144.44		
2030	147.76		
2031	151.16		
2032	154.64		
2033	158.19		
2034	161.83		
2035	165.55		
2036	169.36		
2037	173.26		
2038	177.24		
2039	181.32		
2040	185.49		

M1 J35a to 36	£0.00	£0.02	£0.03	£0.03	£0.03	£0.03	£0.03	£0.02	£1.24	£0.90	£13.50	£0.05	£0.04	£0.03	£0.03	£0.01	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£16.00
A6 to M60	£0.00	£0.23	£5.38	£3.55	£8.28	£8.61	£6.39	£49.32	£253.45	£84.66	£3.99	£1.87	£0.19	£0.16	£0.10	£0.02	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£426.17
M1 to M18	£0.00	£0.25	£7.84	£4.30	£7.16	£15.12	£13.74	£5.84	£4.83	£22.41	£175.95	£277.03	£226.66	£58.66	£1.80	£0.57	£0.40	£0.32	£0.23	£0.03	£0.01	£0.00	£0.00	£823.15
A628 + Tunnel	£0.00	£0.25	£24.61	£16.65	£20.73	£49.41	£70.74	£32.51	£34.17	£27.57	£78.77	£374.41	£820.04	£771.00	£560.76	£116.76	£3.86	£0.40	£0.36	£0.32	£0.26	£0.00	£0.00	£3,003.58
A616 dualling to M1	£0.00	£0.00	£3.78	£3.50	£3.95	£6.37	£7.06	£4.37	£6.17	£55.54	£121.64	£103.87	£19.05	£1.18	£0.32	£0.27	£0.26	£0.11	£0.01	£0.00	£0.00	£0.00	£0.00	£337.45
Denton Bypass	£0.00	£0.23	£4.67	£4.44	£8.11	£2.38	£3.34	£59.04	£217.11	£54.33	£1.39	£0.43	£0.05	£0.05	£0.03	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£355.58
Total	£0.00	£1.22	£47.10	£33.41	£49.43	£82.92	£110.68	£175.85	£527.74	£261.60	£427.32	£757.87	£1,066.17	£831.20	£563.15	£117.69	£4.52	£0.83	£0.59	£0.35	£0.27	£0.00	£0.00	£5,059.92

CAPEX Summary - from EO Most Likely Costs (£000s) (Factor prices only)

	1	2	2	2	2	2	1	1	1	
Optimised pacakge	M67, M60 to A57	M60 J24 to 25	M18 J1a to 2	M1 J35a to 36	A6 to M60	M1 to M18	A628 + Tunnel	A616 dualling to M1	Denton Bypass	Total
Preparation	5,803	4,945	4,590	3,338	39,647	74,683	363,999	43,793	31,922	572,720
Supervision	1,857	2,107	2,996	1,701	6,191	10,302	60,513	6,502	6,158	98,327
Construction	48,691	26,650	40,067	20,089	447,835	1,001,915	3,900,353	386,974	391,895	6,264,470
Land	1,253	44	103	86	51,849	53,553	48,041	36,346	11,833	203,108
Total CAPEX	57,604	33,746	47,756	25,215	545,522	1,140,453	4,372,907	473,615	441,807	7,138,626

Converted to PVC - CAPEX (£000s)

Scheme	M67, M60 to A57	M60 J24 to 25	M18 J1a to 2	M1 J35a to 36	A6 to M60	M1 to M18	A628 + Tunnel	A616 dualling to M1	Denton Bypass	Total
Preparation	4,532	3,361	3,120	2,281	30,531	55,128	260,261	32,315	24,561	416,089
Supervision	1,307	1,380	1,918	1,090	4,205	6,213	34,792	4,052	4,169	59,125
Construction	34,566	17,464	25,636	12,856	305,737	614,143	2,272,477	244,571	268,689	3,796,139
Land	882	27	63	53	35,311	33,626	29,284	23,314	8,077	130,637
Total CAPEX PVC (converted to market prices and values)										
TPTS Only	41,286						2,596,815	304,252	305,495	3,247,848
Optimised Pacakge	41,286	22,232	30,738	16,279	375,784	709,110	2,596,815	304,252	305,495	4,401,990

3,699,152 -3,439,474 702,839 4,401,990

OPEX (£000s)

Scheme	M67, M60 to A57	M60 J24 to 25	M60 J1a to 2	M1 J35a to 36	A6 to M60	M1 to M18	A628 + Tunnel	A616 dualling to M1	Denton Bypass	Total
OPEX 2010 Cost	7,692	5,117	1,806	1,806	76,696	190,284	1,055,666	113,203	5,117	1,457,387
Single Year cost 2010	128	85	30	30	1,278	3,171	17,594	1,887	85	24,288
Discounted to 2010	2,306	1,500	530	530	22,992	53,446	278,709	33,196	1,534	394,743
Total OPEX PVC (converted to market prices and values)										
TPTS Only	2,744						331,664	39,503	1,825	375,737
Optimised Pacakge	2,744	1,785	631	631	27,360	63,601	331,664	39,503	1,825	469,744

Appraisal Summary	TPTS Only	Optimised Package	Low Growth	Trans-formational
Present Value of Cost (£m)				
CAPEX	3,247.85	4,401.99	4,401.99	4,401.99
OPEX	375.74	469.74	469.74	469.74
Total PVC	3,623.58	4,871.73	4,871.73	4,871.73
Level 1 PVB (£m)				
User Benefits	2,213.45	4,633.33	4,424.58	4,859.14
Indirect Tax Revenue	187.11	372.29	317.41	311.18
Greenhouse Gas	-98.82	-195.08	-56.42	-162.43
Accident	106.22	134.00	134.00	134.00

*use values from NTEM Core

Construction	-0.03	-0.03	-0.03	-0.03	*use values from NTEM Core
Total	2,407.92	4,944.52	4,819.54	5,141.87	
Initial BCR	0.66	1.01	0.99	1.06	
Level 2 PVB (£m)					
Reliability	227.18	473.92	448.99	489.63	*Low Growth uses NTEM Core
Wider Impacts - Static Clustering	1,877.14	3,338.28	3,338.28	3,324.08	
Total	4,512.25	8,756.71	8,606.81	8,955.59	
Adjusted BCR	1.25	1.80	1.77	1.84	

Costs obtained from EO - Most Likely Cost

A6 to M60

Expenditure Profile	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
Preparation	197,446	4,969,914	3,456,632	8,513,796	9,346,154	7,349,249	5,813,858	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39,647,048
Supervision	0	0	0	0	0	0	242,739	3,950,105	1,875,740	122,065	0	0	0	0	0	0	0	0	0	0	0	0	6,190,650
Construction	0	0	0	0	0	0	38,552,582	302,576,578	105,842,810	181,215	183,128	185,701	188,419	125,005	0	0	0	0	0	0	0	0	447,835,439
Land	0	0	0	0	0	0	15,428,099	20,164,092	7,818,700	5,462,790	2,678,918	125,067	81,866	50,211	39,440	0	0	0	0	0	0	0	51,849,183
Total CAPEX	197,446	4,969,914	3,456,632	8,513,796	9,346,154	7,349,249	60,037,279	326,690,776	115,537,249	5,766,070	2,862,046	310,768	270,285	175,216	39,440	0	0	0	0	0	0	0	545,522,320
	0%	1%	1%	2%	2%	1%	11%	60%	21%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

M67, M60 to A57

Expenditure Profile	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
Preparation	201,882	695,763	890,989	1,200,502	1,089,377	1,724,439	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,802,952
Supervision	0	0	0	0	0	152,119	1,160,025	413,519	131,096	0	0	0	0	0	0	0	0	0	0	0	0	0	1,856,759
Construction	0	0	0	0	0	8,990,750	29,899,108	9,678,800	26,012	26,408	26,686	27,061	16,603	0	0	0	0	0	0	0	0	0	48,691,428
Land	0	0	0	0	0	368,766	482,357	177,772	141,434	69,424	6,674	2,622	2,253	1,265	620	0	0	0	0	0	0	0	1,253,187
Total CAPEX	201,882	695,763	890,989	1,200,502	1,089,377	11,236,075	31,541,491	10,270,090	298,542	95,831	33,360	29,684	18,856	1,265	620	0	0	0	0	0	0	0	57,604,327
	0%	1%	2%	2%	2%	20%	55%	18%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

A616 dualling to M1

Expenditure Profile	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
Preparation	0	3,418,358	3,331,598	3,976,608	6,757,177	7,928,940	5,203,424	7,773,785	5,403,261	0	0	0	0	0	0	0	0	0	0	0	0	0	43,793,150
Supervision	0	0	0	0	0	0	0	0	385,925	2,334,705	2,313,144	1,003,307	464,636	0	0	0	0	0	0	0	0	0	6,501,717
Construction	0	0	0	0	0	0	0	0	51,948,910	158,782,718	148,657,673	25,488,494	458,832	467,011	472,868	480,128	217,320	0	0	0	0	0	386,973,953
Land	0	0	0	0	0	0	0	0	16,350,564	10,690,831	4,373,263	3,678,000	1,053,693	103,878	33,993	33,373	16,384	12,060	0	0	0	0	36,346,040
Total CAPEX	0	3,418,358	3,331,598	3,976,608	6,757,177	7,928,940	5,203,424	7,773,785	74,088,661	171,808,254	155,344,079	30,169,802	1,977,160	570,889	506,861	513,501	233,704	12,060	0	0	0	0	473,614,860
	0%	1%	1%	1%	1%	2%	1%	2%	16%	36%	33%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

A628 + Tunnel

Expenditure Profile	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
Preparation	197,237	20,266,749	14,460,154	18,997,038	47,802,003	72,462,099	35,255,243	39,235,375	33,518,595	81,804,779	0	0	0	0	0	0	0	0	0	0	0	0	363,999,272
Supervision	0	0	0	0	0	0	0	0	0	81,145	4,775,788	16,469,595	17,211,918	13,090,649	2,717,263	6,167,133	0	0	0	0	0	0	60,513,491
Construction	0	0	0	0	0	0	0	0	0	12,224,715	481,634,025	1,158,781,228	1,156,305,719	890,759,332	197,280,355	704,133	705,027	691,740	675,000	591,708	0	0	3,900,352,981
Land	0	0	0	0	0	0	0	0	0	7,304,131	23,966,171	8,300,321	4,695,810	3,480,269	36,838	128,403	63,026	30,933	15,193	11,186	7,326	1,796	48,041,403
Total CAPEX	197,237	20,266,749	14,460,154	18,997,038	47,802,003	72,462,099	35,255,243	39,235,375	33,518,595	101,414,769	510,375,984	1,183,551,144	1,178,213,447	907,330,250	200,034,456	6,999,669	768,053	722,673	690,193	602,894	7,326	1,796	4,372,907,148
	0%	0%	0%	0%	1%	2%	1%	1%	1%	2%	12%	27%	27%	21%	5%	0%	0%	0%	0%	0%	0%	0%	

Denton Bypass

Expenditure Profile	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
Preparation	197,379	4,211,471	4,231,557	8,148,054	2,519,716	3,745,647	8,867,778	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31,921,603
Supervision	0	0	0	0	0	0	404,246	3,573,465	1,442,045	738,025	0	0	0	0	0	0	0	0	0	0	0	0	6,157,781
Construction	0	0	0	0	0	0	57,298,641	265,008,168	69,224,545	77,637	78,457	79,559	80,724	47,692	0	0	0	0	0	0	0	0	391,895,422
Land	0	0	0	0	0	0	3,625,799	4,744,897	1,750,119	1,147,957	563,813	0	0	0	0	0	0	0	0	0	0	0	11,832,585
Total CAPEX	197,379	4,211,471	4,231,557	8,148,054	2,519,716	3,745,647	70,196,464	273,326,530	72,416,709	1,963,619	642,269	79,559	80,724	47,692	0	0	0	0	0	0	0	0	441,807,391
	0%	1%	1%	2%	1%	1%	16%	62%	16%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

Convert to PVC (£000s)

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
172,398	4,192,686	2,817,451	6,704,803	7,111,404	5,402,876	4,129,582	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30,531,199
0	0	0	0	0	0	172,418	2,710,878	1,243,752	78,201	0	0	0	0	0	0	0	0	0	0	0	0	4,205,249
0	0	0	0	0	0	27,383,893	207,652,265	70,181,456	116,095	113,354	111,059	108,874	69,789	0	0	0	0	0	0	0	0	305,736,785
0	0	0	0	0	0	10,958,576	13,838,214	5,184,365	3,499,735	1,658,211	74,797	47,305	28,032	21,274	0	0	0	0	0	0	0	35,310,509
172,398	4,192,686	2,817,451	6,704,803	7,111,404	5,402,876	42,644,470	224,201,357	76,609,572	3,694,031	1,771,564	185,856	156,179	97,821	21,274	0	0	0	0	0	0	0	375,783,741

Convert to PVC (£000s)

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
176,271	586,955	726,232	945,422	828,897	1,267,739	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,531,517
0	0	0	0	0	111,832	823,966	283,790	86,926	0	0	0	0	0	0	0	0	0	0	0	0	0	1,306,514
0	0	0	0	0	6,609,642	21,237,332	6,642,367	17,248	16,918	16,519	16,184	9,594	0	0	0	0	0	0	0	0	0	34,565,803
0	0	0	0	0	271,102	342,618	122,001	93,781	44,476	4,131	1,568	1,302	706	335	0	0	0	0	0	0	0	882,021
176,271	586,955	726,232	945,422	828,897	8,260,316	22,403,916	7,048,158	197,955	61,394	20,649	17,752	10,895	706	335	0	0	0	0	0	0	0	41,285,555

Convert to PVC (£000s)

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
0	2,883,772	2,715,537	3,131,667	5,141,475	5,829,042	3,695,991	5,334,993	3,582,754	0	0	0	0	0	0	0	0	0	0	0	0	0	32,315,231
0	0	0	0	0	0	0	0	255,896	1,495,728	1,431,802	600,031	268,480	0	0	0	0	0	0	0	0	0	4,051,938
0	0	0	0	0	0	0	0	34,445,893	101,724,109	92,016,910	15,243,481	265,127	260,727	255,070	250,228	109,430	0	0	0	0	0	244,570,975
0	0	0	0	0	0	0	0	10,841,610	6,849,078	2,706,985	2,199,641	608,855	57,994	18,336	17,393	8,250	5,868	0	0	0	0	23,314,009
0	2,883,772	2,715,537	3,131,667	5,141,475	5,829,042	3,695,991	5,334,993	49,126,153	110,068,916	96,155,697	18,043,153	1,142,461	318,721	273,406	267,621	117,680	5,868	0	0	0	0	304,252,153

M1 J35a to 36

Expenditure Profile	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
Preparation	15,214	33,032	35,621	35,911	35,143	38,730	27,193	1,761,148	1,355,892	0	0	0	0	0	0	0	0	0	0	0	0	0	3,337,884
Supervision	0	0	0	0	0	0	0	0	0	1,701,470	0	0	0	0	0	0	0	0	0	0	0	0	1,701,470
Construction	0	0	0	0	0	0	0	0	0	19,839,474	54,036	54,796	55,598	56,589	28,586	0	0	0	0	0	0	0	20,089,078
Land	0	0	0	0	0	0	0	0	994	21,960	32,000	15,807	6,679	4,269	2,621	2,061	0	0	0	0	0	0	86,391
Total CAPEX	15,214	33,032	35,621	35,911	35,143	38,730	27,193	1,761,148	1,356,886	21,562,905	86,036	70,603	62,277	60,857	31,206	2,061	0	0	0	0	0	0	25,214,823
	0%	0%	0%	0%	0%	0%	0%	7%	5%	86%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

M1 to M18

Expenditure Profile	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
Preparation	197,360	6,625,096	3,834,789	6,734,751	15,012,371	14,446,764	6,501,997	5,691,585	15,638,326	0	0	0	0	0	0	0	0	0	0	0	0	0	74,683,037
Supervision	0	0	0	0	0	0	0	0	4,381	1,329,310	3,477,691	3,070,031	943,165	1,477,791	0	0	0	0	0	0	0	0	10,302,369
Construction	0	0	0	0	0	0	0	0	4,418,920	205,283,593	375,126,409	327,616,262	87,079,718	493,197	499,382	507,050	507,693	382,441	0	0	0	0	1,001,914,664
Land	0	0	0	0	0	0	0	0	7,899,292	25,808,146	8,866,893	4,974,582	3,954,059	1,020,939	501,058	245,888	120,751	88,891	58,205	14,270	0	0	53,552,975
Total CAPEX	197,360	6,625,096	3,834,789	6,734,751	15,012,371	14,446,764	6,501,997	5,691,585	27,960,919	232,421,049	387,470,992	335,660,875	91,976,942	2,991,928	1,000,440	752,938	628,444	471,332	58,205	14,270	0	0	1,140,453,045
	0%	1%	0%	1%	1%	1%	1%	0%	2%	20%	34%	29%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

M18 J1a to 2

Expenditure Profile	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
Preparation	14,916	32,384	34,922	35,206	34,454	37,970	26,660	2,162,545	2,207,072	3,817	0	0	0	0	0	0	0	0	0	0	0	0	4,589,945
Supervision	0	0	0	0	0	0	0	0	0	2,935,150	61,092	0	0	0	0	0	0	0	0	0	0	0	2,996,242
Construction	0	0	0	0	0	0	0	0	0	39,539,272	106,069	107,559	109,133	111,079	93,726	0	0	0	0	0	0	0	40,066,837
Land	0	0	0	0	0	0	0	0	0	42,413	30,030	14,873	10,510	2,075	1,528	1,001	245	0	0	0	0	0	102,674
Total CAPEX	14,916	32,384	34,922	35,206	34,454	37,970	26,660	2,162,545	2,207,072	42,520,651	197,191	122,432	119,643	113,153	95,254	1,001	245	0	0	0	0	0	47,755,698
	0%	0%	0%	0%	0%	0%	0%	5%	5%	89%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

M60 J24 to 25

Expenditure Profile	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
Preparation	15,161	32,916	35,496	35,785	35,020	38,594	27,098	2,385,800	2,339,584	0	0	0	0	0	0	0	0	0	0	0	0	0	4,945,453
Supervision	0	0	0	0	0	0	0	0	1,331,137	775,873	0	0	0	0	0	0	0	0	0	0	0	0	2,107,010
Construction	0	0	0	0	0	0	0	0	18,462,082	7,777,444	94,387	95,713	97,114	98,845	24,364	0	0	0	0	0	0	0	26,649,949
Land	0	0	0	0	0	0	0	0	16,278	14,202	6,977	2,284	2,244	1,103	812	0	0	0	0	0	0	0	43,900
Total CAPEX	15,161	32,916	35,496	35,785	35,020	38,594	27,098	2,385,800	22,132,803	8,569,595	108,589	102,690	99,398	101,089	25,466	812	0	0	0	0	0	0	33,746,312
	0%	0%	0%	0%	0%	0%	0%	7%	66%	25%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

Convert to PVC (£000s)

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
13,284	27,866	29,034	28,281	26,740	28,472	19,315	1,208,641	899,055	0	0	0	0	0	0	0	0	0	0	0	0	0	2,280,688
0	0	0	0	0	0	0	0	0	1,090,046	0	0	0	0	0	0	0	0	0	0	0	0	1,090,046
0	0	0	0	0	0	0	0	0	12,710,154	33,448	32,771	32,126	31,593	15,419	0	0	0	0	0	0	0	12,855,511
0	0	0	0	0	0	0	0	659	14,069	19,807	9,454	3,860	2,383	1,414	1,074	0	0	0	0	0	0	52,719
13,284	27,866	29,034	28,281	26,740	28,472	19,315	1,208,641	899,714	13,814,270	53,255	42,224	35,985	33,976	16,833	1,074	0	0	0	0	0	0	16,278,965

Convert to PVC (£000s)

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
172,323	5,589,019	3,125,681	5,303,765	11,422,777	10,620,688	4,618,367	3,906,021	10,369,344	0	0	0	0	0	0	0	0	0	0	0	0	0	55,127,985
0	0	0	0	0	0	0	0	2,905	851,622	2,152,639	1,836,042	544,989	825,035	0	0	0	0	0	0	0	0	6,213,232
0	0	0	0	0	0	0	0	2,930,064	131,514,884	232,197,722	195,932,020	50,317,219	275,347	269,372	264,259	255,646	186,064	0	0	0	0	614,142,596
0	0	0	0	0	0	0	0	5,237,803	16,533,983	5,488,476	2,975,066	2,284,771	569,979	270,276	128,149	60,803	43,247	27,360	6,481	0	0	33,626,396
172,323	5,589,019	3,125,681	5,303,765	11,422,777	10,620,688	4,618,367	3,906,021	18,540,116	148,900,488	239,838,837	200,743,128	53,146,979	1,670,361	539,647	392,408	316,450	229,311	27,360	6,481	0	0	709,110,208

Convert to PVC (£000s)

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
13,023	27,319	28,465	27,726	26,215	27,914	18,937	1,484,112	1,463,448	2,445	0	0	0	0	0	0	0	0	0	0	0	0	3,119,604
0	0	0	0	0	0	0	0	0	1,880,403	37,815	0	0	0	0	0	0	0	0	0	0	0	1,918,218
0	0	0	0	0	0	0	0	0	25,330,825	65,655	64,326	63,060	62,014	50,557	0	0	0	0	0	0	0	25,636,437
0	0	0	0	0	0	0	0	0	27,172	18,588	8,895	6,073	1,158	824	521	124	0	0	0	0	0	63,355
13,023	27,319	28,465	27,726	26,215	27,914	18,937	1,484,112	1,463,448	27,240,845	122,058	73,221	69,133	63,172	51,381	521	124	0	0	0	0	0	30,737,614

Convert to PVC (£000s)

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
13,237	27,768	28,932	28,181	26,646	28,373	19,248	1,637,327	1,551,314	0	0	0	0	0	0	0	0	0	0	0	0	0	3,361,027
0	0	0	0	0	0	0	0	882,640	497,063	0	0	0	0	0	0	0	0	0	0	0	0	1,379,703
0	0	0	0	0	0	0	0	12,241,699	4,982,617	58,424	57,242	56,115	55,184	13,142	0	0	0	0	0	0	0	17,464,423
0	0	0	0	0	0	0	0	10,429	8,791	4,172	1,320	1,253	595	423	0	0	0	0	0	0	0	26,982
13,237	27,768	28,932	28,181	26,646	28,373	19,248	1,637,327	14,675,653	5,490,109	67,215	61,414	57,435	56,437	13,737	423	0	0	0	0	0	0	22,232,136

CAPEX Summary - from EO Most Likely Costs (£000s) (Factor prices only)

	1	2	2	2	2	2	1	1	1	
Optimised pacakge	M67, M60 to A57	M60 J24 to 25	M18 J1a to 2	M1 J35a to 36	A6 to M60	M1 to M18	A628 + Tunnel	A616 dualling to M1	Denton Bypass	Total
Preparation	2,651	2,390	2,392	1,819	20,047	37,192	202,781	24,338	18,353	311,962
Supervision	604	1,130	1,374	935	2,372	4,271	22,626	2,319	2,606	38,237
Construction	22,495	14,477	24,027	12,470	226,359	422,443	1,924,009	179,168	166,735	2,992,182
Land	594	0	34	2	28,829	29,871	20,242	20,319	6,947	106,839
Total CAPEX	26,344	17,997	27,828	15,226	277,606	493,777	2,169,657	226,144	194,642	3,449,221

Converted to PVC - CAPEX (£000s)

Scheme	M67, M60 to A57	M60 J24 to 25	M18 J1a to 2	M1 J35a to 36	A6 to M60	M1 to M18	A628 + Tunnel	A616 dualling to M1	Denton Bypass	Total
Preparation	2,085	1,632	1,633	1,250	15,511	27,644	145,883	18,071	14,180	227,888
Supervision	429	742	881	599	1,624	2,592	13,455	1,468	1,781	23,571
Construction	16,089	9,516	15,380	7,982	155,812	260,287	1,156,882	114,967	115,303	1,852,219
Land	420	0	22	1	19,640	18,765	12,341	13,040	4,742	68,971
Total CAPEX PVC (converted to market prices and values)										
TPTS Only	19,023						1,328,562	147,545	136,006	1,631,136
Optimised Pacakge	19,023	11,891	17,915	9,832	192,586	309,288	1,328,562	147,545	136,006	2,172,648

1,825,755

-1,623,466

346,893

2,172,648

OPEX (£000s)

Scheme	M67, M60 to A57	M60 J24 to 25	M60 J1a to 2	M1 J35a to 36	A6 to M60	M1 to M18	A628 + Tunnel	A616 dualling to M1	Denton Bypass	Total
OPEX 2010 Cost	7,692	5,117	1,806	1,806	76,696	190,284	1,055,666	113,203	5,117	1,457,387
Single Year cost 2010	128	85	30	30	1,278	3,171	17,594	1,887	85	24,288
Discounted to 2010	2,306	1,500	530	530	22,992	53,446	278,709	33,196	1,534	394,743
Total OPEX PVC (converted to market prices and values)										
TPTS Only	2,744						331,664	39,503	1,825	375,737
Optimised Pacakge	2,744	1,785	631	631	27,360	63,601	331,664	39,503	1,825	469,744

Appraisal Summary	TPTS Only	Optimised Package	Low Growth	Trans-formational
Present Value of Cost (£m)				
CAPEX	1,631.14	2,172.65	2,172.65	2,172.65
OPEX	375.74	469.74	469.74	469.74
Total PVC	2,006.87	2,642.39	2,642.39	2,642.39
Level 1 PVB (£m)				
User Benefits	2,213.45	4,633.33	4,424.58	4,859.14
Indirect Tax Revenue	187.11	372.29	317.41	311.18
Greenhouse Gas	-98.82	-195.08	-56.42	-162.43
Accident	106.22	134.00	134.00	134.00

*use values from NTEM Core

Construction	-0.03	-0.03	-0.03	-0.03	*use values from NTEM Core
Total	2,407.92	4,944.52	4,819.54	5,141.87	
Initial BCR	1.20	1.87	1.82	1.95	
Level 2 PVB (£m)					
Reliability	227.18	473.92	448.99	489.63	*Low Growth uses NTEM Core
Wider Impacts - Static Clustering	1,877.14	3,338.28	3,338.28	3,324.08	
Total	4,512.25	8,756.71	8,606.81	8,955.59	
Adjusted BCR	2.25	3.31	3.26	3.39	

Costs obtained from EO - Most Likely Cost

A6 to M60

Expenditure Profile	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
Preparation	153,597	2,746,180	1,894,774	4,596,176	4,827,889	3,335,781	2,492,247	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20,046,645
Supervision	0	0	0	0	0	0	184,591	1,834,590	352,491	0	0	0	0	0	0	0	0	0	0	0	0	0	2,371,671
Construction	0	0	0	0	0	0	28,833,533	188,711,985	8,423,406	93,342	93,185	93,327	93,504	16,385	0	0	0	0	0	0	0	0	226,358,667
Land	0	0	0	0	0	0	8,557,028	11,198,942	4,574,234	2,927,943	1,450,192	46,857	40,326	22,680	11,143	0	0	0	0	0	0	0	28,829,345
Total CAPEX	153,597	2,746,180	1,894,774	4,596,176	4,827,889	3,335,781	40,067,398	201,745,518	13,350,130	3,021,285	1,543,378	140,184	133,830	39,065	11,143	0	0	0	0	0	0	0	277,606,328
	0%	1%	1%	2%	2%	1%	14%	73%	5%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

M67, M60 to A57

Expenditure Profile	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
Preparation	148,655	365,873	442,221	558,791	464,433	670,812	0	0	0	0	0	0	0	0	0	0	0	0	0	0			2,650,785
Supervision	0	0	0	0	0	81,574	452,496	65,671	4,095	0	0	0	0	0	0	0	0	0	0	0	0	0	603,837
Construction	0	0	0	0	0	5,035,752	16,958,518	454,212	11,389	11,442	11,441	11,476	1,231	0	0	0	0	0	0	0	0	0	22,495,461
Land	0	0	0	0	0	182,184	238,265	87,789	57,519	28,228	0	0	0	0	0	0	0	0	0	0	0	0	593,985
Total CAPEX	148,655	365,873	442,221	558,791	464,433	5,970,322	17,649,279	607,672	73,003	39,670	11,441	11,476	1,231	0	0	0	0	0	0	0	0	0	26,344,069
	1%	1%	2%	2%	2%	23%	67%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

A616 dualling to M1

Expenditure Profile	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
Preparation	0	2,136,704	2,061,790	2,440,316	3,954,277	4,586,814	2,612,683	3,868,916	2,676,275	0	0	0	0	0	0	0	0	0	0	0	0	0	24,337,776
Supervision	0	0	0	0	0	0	0	0	256,210	1,238,996	564,209	259,325	0	0	0	0	0	0	0	0	0	0	2,318,740
Construction	0	0	0	0	0	0	35,225,950	26,164,522	117,255,657	611,534,342	959,740,411	115,720	116,072	116,776	116,864	56,569	0	0	0	0	0	0	179,168,128
Land	0	0	0	0	0	0	9,119,591	5,972,925	2,588,182	2,050,156	533,241	19,605	19,295	9,496	7,006	0	0	0	0	0	0	0	20,319,496
Total CAPEX	0	2,136,704	2,061,790	2,440,316	3,954,277	4,586,814	2,612,683	3,868,916	47,278,025	124,467,578	29,316,913	2,425,201	649,313	136,380	136,159	66,065	7,006	0	0	0	0	0	226,144,140
	0%	1%	1%	1%	2%	2%	1%	2%	21%	55%	13%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

A628 + Tunnel

Expenditure Profile	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
Preparation	156,284	12,327,706	8,711,385	11,352,203	28,551,366	42,942,286	20,742,099	20,265,323	17,192,582	40,539,626	0	0	0	0	0	0	0	0	0	0	0	0	202,780,859
Supervision	0	0	0	0	0	0	0	0	49,307	5,621,823	10,261,593	3,560,325	3,132,554	0	0	0	0	0	0	0	0	0	22,625,602
Construction	0	0	0	0	0	0	9,458,486	611,534,342	959,740,411	342,581,075	139,821	140,427	141,427	140,891	131,740	0	0	0	0	0	0	0	1,924,008,620
Land	0	0	0	0	0	0	3,078,624	10,087,152	3,484,282	1,987,314	1,528,749	36,977	18,189	8,958	6,610	4,340	1,066	0	0	0	0	0	20,242,260
Total CAPEX	156,284	12,327,706	8,711,385	11,352,203	28,551,366	42,942,286	20,742,099	20,265,323	17,192,582	53,126,043	627,243,317	973,486,286	348,128,714	4,801,124	177,404	159,615	149,849	138,350	4,340	1,066	0	0	2,169,657,342
	0%	1%	0%	1%	1%	2%	1%	1%	1%	2%	29%	45%	16%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

Denton Bypass

Expenditure Profile	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
Preparation	136,433	2,695,708	2,671,064	4,740,858	1,344,061	1,934,989	4,830,041	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18,353,154
Supervision	0	0	0	0	0	0	345,589	1,593,174	652,729	14,970	0	0	0	0	0	0	0	0	0	0	0	0	2,606,463
Construction	0	0	0	0	0	0	39,471,891	124,607,874	2,468,724	45,671	45,594	45,663	45,750	3,535	0	0	0	0	0	0	0	0	166,734,702
Land	0	0	0	0	0	0	2,125,692	2,784,535	1,028,766	675,985	332,414	0	0	0	0	0	0	0	0	0	0	0	6,947,392
Total CAPEX	136,433	2,695,708	2,671,064	4,740,858	1,344,061	1,934,989	46,773,212	128,985,583	4,150,219	736,626	378,008	45,663	45,750	3,535	0	0	0	0	0	0	0	0	194,641,711
	0%	1%	1%	2%	1%	1%	24%	66%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

Convert to PVC (£0000s)

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
134,112	2,316,715	1,544,403	3,619,590	3,673,497	2,452,334	1,770,243	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,510,893
0	0	0	0	0	0	131,115	1,259,042	233,727	0	0	0	0	0	0	0	0	0	0	0	0	0	1,623,884
0	0	0	0	0	0	20,480,454	129,509,268	5,585,329	59,800	57,680	55,814	54,029	9,147	0	0	0	0	0	0	0	0	155,811,522
0	0	0	0	0	0	6,078,055	7,685,611	3,033,049	1,875,786	897,648	28,023	23,301	12,662	6,011	0	0	0	0	0	0	0	19,640,145
134,112	2,316,715	1,544,403	3,619,590	3,673,497	2,452,334	28,459,866	138,453,921	8,852,104	1,935,586	955,328	83,837	77,331	21,809	6,011	0	0	0	0	0	0	0	192,586,444

Convert to PVC (£0000s)

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
129,797	308,655	360,448	440,060	353,383	493,154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,085,498
0	0	0	0	0	59,970	321,408	45,069	2,716	0	0	0	0	0	0	0	0	0	0	0	0	0	429,162
0	0	0	0	0	3,702,085	12,045,633	311,717	7,552	7,331	7,082	6,863	711	0	0	0	0	0	0	0	0	0	16,088,973
0	0	0	0	0	133,935	169,240	60,248	38,139	18,084	0	0	0	0	0	0	0	0	0	0	0	0	419,646
129,797	308,655	360,448	440,060	353,383	4,389,144	12,536,280	417,033	48,407	25,415	7,082	6,863	711	0	0	0	0	0	0	0	0	0	19,023,279

Convert to PVC (£0000s)

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
0	1,802,552	1,680,535	1,921,803	3,008,773	3,372,044	1,855,788	2,655,160	1,774,565	0	0	0	0	0	0	0	0	0	0	0	0	0	18,071,220
0	0	0	0	0	0	0	0	169,886	793,763	349,237	155,090	0	0	0	0	0	0	0	0	0	0	1,467,976
0	0	0	0	0	0	0	0	23,357,358	75,119,808	16,195,454	69,207	67,070	65,195	63,038	29,482	0	0	0	0	0	0	114,966,610
0	0	0	0	0	0	0	0	6,046,950	3,826,553	1,602,046	1,226,102	308,122	10,945	10,408	4,949	3,528	0	0	0	0	0	13,039,604
0	1,802,552	1,680,535	1,921,803	3,008,773	3,372,044	1,855,788	2,655,160	31,348,758	79,740,123	18,146,737	1,450,400	375,192	76,140	73,446	34,431	3,528	0	0	0	0	0	147,545,410

Convert to PVC (£0000s)

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033</
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M1 J35a to 36

[illegible]

M1 to M18

[illegible]

M18 J1a to 2

[illegible]

M60 J24 to 25

[illegible]

Convert to PVC (£000s)

[illegible]

Convert to PVC (£000s)

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
133,104	3,092,865	1,702,641	2,845,532	6,079,634	5,595,404	2,012,916	1,686,158	4,495,292	0	0	0	0	0	0	0	0	0	0	0	0	0	27,643,546
0	0	0	0	0	0	0	0	1,336	446,614	936,074	715,961	319,186	173,062	0	0	0	0	0	0	0	0	2,592,231
0	0	0	0	0	0	0	0	1,398,635	66,545,962	103,157,252	78,337,303	10,586,769	62,429	60,185	58,183	55,775	24,790	0	0	0	0	260,287,281
0	0	0	0	0	0	0	0	2,911,739	9,202,441	3,061,671	1,663,537	1,470,938	241,145	114,676	36,347	34,565	16,437	11,717	0	0	0	18,765,214
133,104	3,092,865	1,702,641	2,845,532	6,079,634	5,595,404	2,012,916	1,686,158	8,807,002	76,195,017	107,154,996	80,716,801	12,376,892	476,635	174,861	94,530	90,341	41,227	11,717	0	0	0	309,288,273

Convert to PVC (£000s)

[illegible]

Convert to PVC (£000s)

[illegible]

CAPEX Summary - from EO Most Likely Costs (£000s) (Factor prices only)

	1	2	2	2	2	2	1	1	1	
Optimised pacakge	M67, M60 to A57	M60 J24 to 25	M18 J1a to 2	M1 J35a to 36	A6 to M60	M1 to M18	A628 + Tunnel	A616 dualling to M1	Denton Bypass	Total
Preparation	10,300	8,312	7,546	5,362	64,762	115,426	594,741	67,635	48,524	922,607
Supervision	4,152	3,874	5,222	3,124	15,547	22,809	144,265	14,420	12,129	225,543
Construction	102,315	47,571	63,940	33,450	1,004,553	1,902,076	7,414,604	814,211	709,433	12,092,154
Land	2,402	83	177	157	97,736	107,662	93,152	68,258	32,529	402,156
Total CAPEX	119,170	59,840	76,885	42,094	1,182,598	2,147,972	8,246,762	964,524	802,616	13,642,460

Converted to PVC - CAPEX (£000s)

Scheme	M67, M60 to A57	M60 J24 to 25	M18 J1a to 2	M1 J35a to 36	A6 to M60	M1 to M18	A628 + Tunnel	A616 dualling to M1	Denton Bypass	Total
Preparation	8,005	5,638	5,118	3,655	49,723	84,891	423,171	49,709	37,226	667,137
Supervision	2,901	2,514	3,338	2,001	10,394	13,371	80,177	8,825	8,146	131,668
Construction	72,224	30,945	40,915	21,394	675,691	1,134,752	4,184,080	506,301	482,717	7,149,020
Land	1,690	51	109	95	66,505	66,723	56,633	43,765	22,206	257,776

Total CAPEX PVC (converted to market prices and values)

TPTS Only	84,821						4,744,060	608,600	550,295	5,987,777				
Optimised Pacakge	84,821	39,148	49,481	27,145	802,313	1,299,738	4,744,060	608,600	550,295	8,205,600	6,895,463	-6,746,997	1,310,138	8,205,600

OPEX (£000s)

Scheme	M67, M60 to A57	M60 J24 to 25	M60 J1a to 2	M1 J35a to 36	A6 to M60	M1 to M18	A628 + Tunnel	A616 dualling to M1	Denton Bypass	Total
OPEX 2010 Cost	7,692	5,117	1,806	1,806	76,696	190,284	1,055,666	113,203	5,117	1,457,387
Single Year cost 2010	128	85	30	30	1,278	3,171	17,594	1,887	85	24,288
Discounted to 2010	2,306	1,500	530	530	22,992	53,446	278,709	33,196	1,534	394,743

Total OPEX PVC (converted to market prices and values)

TPTS Only	2,744						331,664	39,503	1,825	375,737
Optimised Pacakge	2,744	1,785	631	631	27,360	63,601	331,664	39,503	1,825	469,744

Appraisal Summary	TPTS Only	Optimised Package	Low Growth	Trans-formational
Present Value of Cost (£m)				
CAPEX	5,987.78	8,205.60	8,205.60	8,205.60
OPEX	375.74	469.74	469.74	469.74
Total PVC	6,363.51	8,675.34	8,675.34	8,675.34
Level 1 PVB (£m)				
User Benefits	2,213.45	4,633.33	4,424.58	4,859.14
Indirect Tax Revenue	187.11	372.29	317.41	311.18
Greenhouse Gas	-98.82	-195.08	-56.42	-162.43
Accident	106.22	134.00	134.00	134.00

*use values from NTEM Core

M1 J35a to 36

Expenditure Profile	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
Preparation	19,877	43,594	47,454	48,258	47,650	52,963	37,469	2,753,680	2,311,275	0	0	0	0	0	0	0	0	0	0	0	0	0	5,362,222
Supervision	0	0	0	0	0	0	0	0	0	3,093,653	30,719	0	0	0	0	0	0	0	0	0	0	0	3,124,372
Construction	0	0	0	0	0	0	0	0	0	32,873,303	114,301	116,829	119,496	122,620	103,554	0	0	0	0	0	0	0	33,450,102
Land	0	0	0	0	0	0	0	0	1,607	21,164	67,106	33,044	16,204	7,816	5,748	3,759	921	0	0	0	0	0	157,370
Total CAPEX	19,877	43,594	47,454	48,258	47,650	52,963	37,469	2,753,680	2,312,882	35,988,121	212,125	149,873	135,700	130,436	109,302	3,759	921	0	0	0	0	0	42,094,066
	0%	0%	0%	0%	0%	0%	0%	7%	5%	85%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

M1 to M18

Expenditure Profile	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
Preparation	253,493	9,694,936	5,628,707	9,915,479	22,349,771	21,541,851	10,701,998	9,386,278	25,953,195	0	0	0	0	0	0	0	0	0	0	0	0	0	115,425,708
Supervision	0	0	0	0	0	0	0	0	6,885	1,207,776	5,109,854	5,191,277	5,349,784	2,619,945	2,134,220	1,188,982	0	0	0	0	0	0	22,808,722
Construction	0	0	0	0	0	0	0	0	5,809,151	220,319,443	455,456,588	464,293,786	466,169,445	236,857,567	50,618,115	582,470	584,021	573,015	559,148	253,020	0	0	1,902,075,768
Land	0	0	0	0	0	0	0	0	14,888,743	48,608,142	16,677,282	9,342,872	6,867,631	0	4,123,211	3,632,986	1,808,015	599,342	596,113	296,491	220,767	0	107,661,595
Total CAPEX	253,493	9,694,936	5,628,707	9,915,479	22,349,771	21,541,851	10,701,998	9,386,278	46,657,975	270,135,362	477,243,724	478,827,935	478,386,860	239,477,512	56,875,546	5,404,437	2,392,035	1,172,357	1,155,260	549,511	220,767	0	2,147,971,793
	0%	0%	0%	0%	1%	1%	0%	0%	2%	13%	22%	22%	22%	11%	3%	0%	0%	0%	0%	0%	0%	0%	

M18 J1a to 2

Expenditure Profile	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
Preparation	19,569	42,918	46,718	47,510	46,911	52,142	36,888	3,455,263	3,791,373	6,587	0	0	0	0	0	0	0	0	0	0	0	0	7,545,878
Supervision	0	0	0	0	0	0	0	0	0	4,867,691	354,723	0	0	0	0	0	0	0	0	0	0	0	5,222,415
Construction	0	0	0	0	0	0	0	0	0	63,177,015	145,906	149,133	152,538	156,525	159,168	0	0	0	0	0	0	0	63,940,285
Land	0	0	0	0	0	0	0	0	0	70,287	53,041	26,227	18,090	3,849	2,829	1,850	453	0	0	0	0	0	176,627
Total CAPEX	19,569	42,918	46,718	47,510	46,911	52,142	36,888	3,455,263	3,791,373	68,121,581	553,670	175,360	170,628	160,374	161,998	1,850	453	0	0	0	0	0	76,885,204
	0%	0%	0%	0%	0%	0%	0%	4%	5%	89%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

M60 J24 to 25

Expenditure Profile	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
Preparation	20,603	45,266	49,356	50,270	49,715	55,342	39,205	3,863,787	4,138,587	0	0	0	0	0	0	0	0	0	0	0	0	0	8,312,130
Supervision	0	0	0	0	0	0	0	0	1,450,319	2,423,262	0	0	0	0	0	0	0	0	0	0	0	0	3,873,581
Construction	0	0	0	0	0	0	0	0	22,892,424	23,929,527	153,630	157,249	161,068	165,516	111,641	0	0	0	0	0	0	0	47,571,056
Land	0	0	0	0	0	0	0	0	0	20,664	31,510	15,459	6,500	4,254	2,609	2,049	0	0	0	0	0	0	83,043
Total CAPEX	20,603	45,266	49,356	50,270	49,715	55,342	39,205	3,863,787	28,481,330	26,373,453	185,140	172,708	167,568	169,770	114,249	2,049	0	0	0	0	0	0	59,839,810
	0%	0%	0%	0%	0%	0%	0%	6%	48%	44%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

Convert to PVC (£000s)

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
17,356	36,777	38,679	38,005	36,256	38,937	26,615	1,889,796	1,532,543	0	0	0	0	0	0	0	0	0	0	0	0	0	3,654,962
0	0	0	0	0	0	0	0	0	1,981,948	19,014	0	0	0	0	0	0	0	0	0	0	0	2,000,963
0	0	0	0	0	0	0	0	0	21,060,274	70,750	69,870	69,048	68,457	55,858	0	0	0	0	0	0	0	21,394,257
0	0	0	0	0	0	0	0	1,066	13,559	41,537	19,762	9,363	4,364	3,101	1,959	464	0	0	0	0	0	95,175
17,356	36,777	38,679	38,005	36,256	38,937	26,615	1,889,796	1,533,609	23,055,781	131,302	89,632	78,412	72,821	58,959	1,959	464	0	0	0	0	0	27,145,357

Convert to PVC (£000s)

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
221,335	8,178,778	4,587,877	7,808,659	17,005,739	15,836,714	7,601,627	6,441,615	17,208,850	0	0	0	0	0	0	0	0	0	0	0	0	0	84,891,193
0	0	0	0	0	0	0	0	4,566	773,761	3,162,924	3,104,661	3,091,262	1,462,687	1,151,219	619,660	0	0	0	0	0	0	13,370,741
0	0	0	0	0	0	0	0	3,851,888	141,147,598	281,920,920	277,672,478	269,366,399	132,235,033	27,303,913	303,565	294,081	278,781	262,835	114,914	0	0	1,134,752,406
0	0	0	0	0	0	0	0	9,872,316	31,140,795	10,322,992	5,587,537	3,968,319	0	2,224,101	1,893,400	910,417	291,590	280,211	134,657	96,875	0	66,723,208
221,335	8,178,778	4,587,877	7,808,659	17,005,739	15,836,714	7,601,627	6,441,615	30,937,620	173,062,154	295,406,836	286,364,676	276,425,980	133,697,721	30,679,233	2,816,625	1,204,497	570,371	543,047	249,571	96,875	0	1,299,737,548

Convert to PVC (£000s)

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
17,086	36,206	38,079	37,415	35,694	38,332	26,202	2,371,278	2,513,955	4,220	0	0	0	0	0	0	0	0	0	0	0	0	5,118,468
0	0	0	0	0	0	0	0	0	3,118,485	219,568	0	0	0	0	0	0	0	0	0	0	0	3,338,054
0	0	0	0	0	0	0	0	0	40,474,339	90,313	89,189	88,141	87,386	85,857	0	0	0	0	0	0	0	40,915,226
0	0	0	0	0	0	0	0	0	45,029	32,832	15,685	10,453	2,149	1,526	964	228	0	0	0	0	0	108,866
17,086	36,206	38,079	37,415	35,694	38,332	26,202	2,371,278	2,513,955	43,642,074	342,714	104,875	98,594	89,535	87,383	964	228	0	0	0	0	0	49,480,614

Convert to PVC (£000s)

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Total
17,989	38,187	40,229	39,589	37,827	40,685	27,847	2,651,640	2,744,183	0	0	0	0	0	0	0	0	0	0	0	0	0	5,638,177
0	0	0	0	0	0	0	0	961,666	1,552,462	0	0	0	0	0	0	0	0	0	0	0	0	2,514,129
0	0	0	0	0	0	0	0	15,179,337	15,330,446	95,095	94,043	93,070	92,406	60,220	0	0	0	0	0	0	0	30,944,617
0	0	0	0	0	0	0	0	0	13,238	19,504	9,245	3,756	2,375	1,407	1,068	0	0	0	0	0	0	50,593
17,989	38,187	40,229	39,589	37,827	40,685	27,847	2,651,640	18,885,186	16,896,146	114,599	103,289	96,826	94,781	61,627	1,068	0	0	0	0	0	0	39,147,516

Matrix		UC1	UC2	UC3	UC4	UC5	Total
TPT_SLA_TS1_EB	SLA	2,109.64	206.48	593.29	222.50	868.70	4,000.61
	Model	1,832.83	179.49	515.38	192.68	796.90	3,517.28
	Factor	0.86879	0.86929	0.86868	0.86598	0.91735	
TPT_SLA_TS1_WB	SLA	1,566.49	128.39	318.80	166.80	499.11	2,679.59
	Model	1,490.69	122.59	304.16	159.71	711.64	2,788.79
	Factor	0.95161	0.95483	0.95408	0.95749	1.42582	
TPT_SLA_TS2_EB	SLA	1,655.15	107.84	764.23	196.95	788.94	3,513.11
	Model	1,580.50	102.85	729.77	188.24	911.85	3,513.21
	Factor	0.95490	0.95373	0.95491	0.95578	1.15579	
TPT_SLA_TS2_WB	SLA	1,334.12	97.89	669.37	161.09	778.47	3,040.94
	Model	1,302.73	95.47	653.45	157.37	780.93	2,989.95
	Factor	0.97647	0.97528	0.97622	0.97691	1.00316	
TPT_SLA_TS3_EB	SLA	1,377.79	254.67	916.04	237.42	452.18	3,238.10
	Model	1,147.53	211.77	762.45	197.64	568.26	2,887.65
	Factor	0.83288	0.83155	0.83233	0.83245	1.25671	
TPT_SLA_TS3_WB	SLA	1,272.74	276.38	742.36	202.32	407.05	2,900.85
	Model	1,210.98	262.60	707.01	191.70	394.38	2,766.67
	Factor	0.95147	0.95014	0.95238	0.94751	0.96887	

COPY TPT_SLA_TS1_EB.orig.ufm TPT_SLA_TS1_EB.ufm
 COPY TPT_SLA_TS1_WB.orig.ufm TPT_SLA_TS1_WB.ufm
 COPY TPT_SLA_TS2_EB.orig.ufm TPT_SLA_TS2_EB.ufm
 COPY TPT_SLA_TS2_WB.orig.ufm TPT_SLA_TS2_WB.ufm
 COPY TPT_SLA_TS3_EB.orig.ufm TPT_SLA_TS3_EB.ufm
 COPY TPT_SLA_TS3_WB.orig.ufm TPT_SLA_TS3_WB.ufm

CALL MXFACTOR TPT_SLA_TS1_EB TPT_SLA_TS1_EB 0.86879 LEVEL 1
 CALL MXFACTOR TPT_SLA_TS1_EB TPT_SLA_TS1_EB 0.86929 LEVEL 2
 CALL MXFACTOR TPT_SLA_TS1_EB TPT_SLA_TS1_EB 0.86868 LEVEL 3
 CALL MXFACTOR TPT_SLA_TS1_EB TPT_SLA_TS1_EB 0.86598 LEVEL 4
 CALL MXFACTOR TPT_SLA_TS1_EB TPT_SLA_TS1_EB 0.91735 LEVEL 5

CALL MXFACTOR TPT_SLA_TS1_WB TPT_SLA_TS1_WB 0.95161 LEVEL 1
 CALL MXFACTOR TPT_SLA_TS1_WB TPT_SLA_TS1_WB 0.95483 LEVEL 2
 CALL MXFACTOR TPT_SLA_TS1_WB TPT_SLA_TS1_WB 0.95408 LEVEL 3
 CALL MXFACTOR TPT_SLA_TS1_WB TPT_SLA_TS1_WB 0.95749 LEVEL 4
 CALL MXFACTOR TPT_SLA_TS1_WB TPT_SLA_TS1_WB 1.42582 LEVEL 5

CALL MXFACTOR TPT_SLA_TS2_EB TPT_SLA_TS2_EB 0.9549 LEVEL 1
 CALL MXFACTOR TPT_SLA_TS2_EB TPT_SLA_TS2_EB 0.95373 LEVEL 2
 CALL MXFACTOR TPT_SLA_TS2_EB TPT_SLA_TS2_EB 0.95491 LEVEL 3
 CALL MXFACTOR TPT_SLA_TS2_EB TPT_SLA_TS2_EB 0.95578 LEVEL 4
 CALL MXFACTOR TPT_SLA_TS2_EB TPT_SLA_TS2_EB 1.15579 LEVEL 5

CALL MXFACTOR TPT_SLA_TS2_WB TPT_SLA_TS2_WB 0.97647 LEVEL 1
 CALL MXFACTOR TPT_SLA_TS2_WB TPT_SLA_TS2_WB 0.97528 LEVEL 2
 CALL MXFACTOR TPT_SLA_TS2_WB TPT_SLA_TS2_WB 0.97622 LEVEL 3
 CALL MXFACTOR TPT_SLA_TS2_WB TPT_SLA_TS2_WB 0.97691 LEVEL 4
 CALL MXFACTOR TPT_SLA_TS2_WB TPT_SLA_TS2_WB 1.00316 LEVEL 5

CALL MXFACTOR TPT_SLA_TS3_EB TPT_SLA_TS3_EB 0.83288 LEVEL 1
 CALL MXFACTOR TPT_SLA_TS3_EB TPT_SLA_TS3_EB 0.83155 LEVEL 2
 CALL MXFACTOR TPT_SLA_TS3_EB TPT_SLA_TS3_EB 0.83233 LEVEL 3
 CALL MXFACTOR TPT_SLA_TS3_EB TPT_SLA_TS3_EB 0.83245 LEVEL 4
 CALL MXFACTOR TPT_SLA_TS3_EB TPT_SLA_TS3_EB 1.25671 LEVEL 5

CALL MXFACTOR TPT_SLA_TS3_WB TPT_SLA_TS3_WB 0.95147 LEVEL 1
 CALL MXFACTOR TPT_SLA_TS3_WB TPT_SLA_TS3_WB 0.95014 LEVEL 2
 CALL MXFACTOR TPT_SLA_TS3_WB TPT_SLA_TS3_WB 0.95238 LEVEL 3
 CALL MXFACTOR TPT_SLA_TS3_WB TPT_SLA_TS3_WB 0.94751 LEVEL 4
 CALL MXFACTOR TPT_SLA_TS3_WB TPT_SLA_TS3_WB 0.96887 LEVEL 5