

Maidstone Transport Strategy



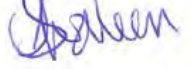
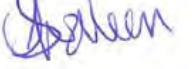
Option Testing Summary Tables



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	Originator	Checked by	Reviewed by	Approved by
ORIGINAL	NAME M. Nicholls	NAME S. Kaler	NAME S. Srivastava	NAME S. Srivastava
DATE 10/3/11	SIGNATURE 	SIGNATURE 	SIGNATURE 	SIGNATURE 
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1 Introduction

This report details summary tables for the four option tests carried out by Jacobs using the Maidstone VISUM Model Planning Suite. The model study area is shown below in figure 1.1.

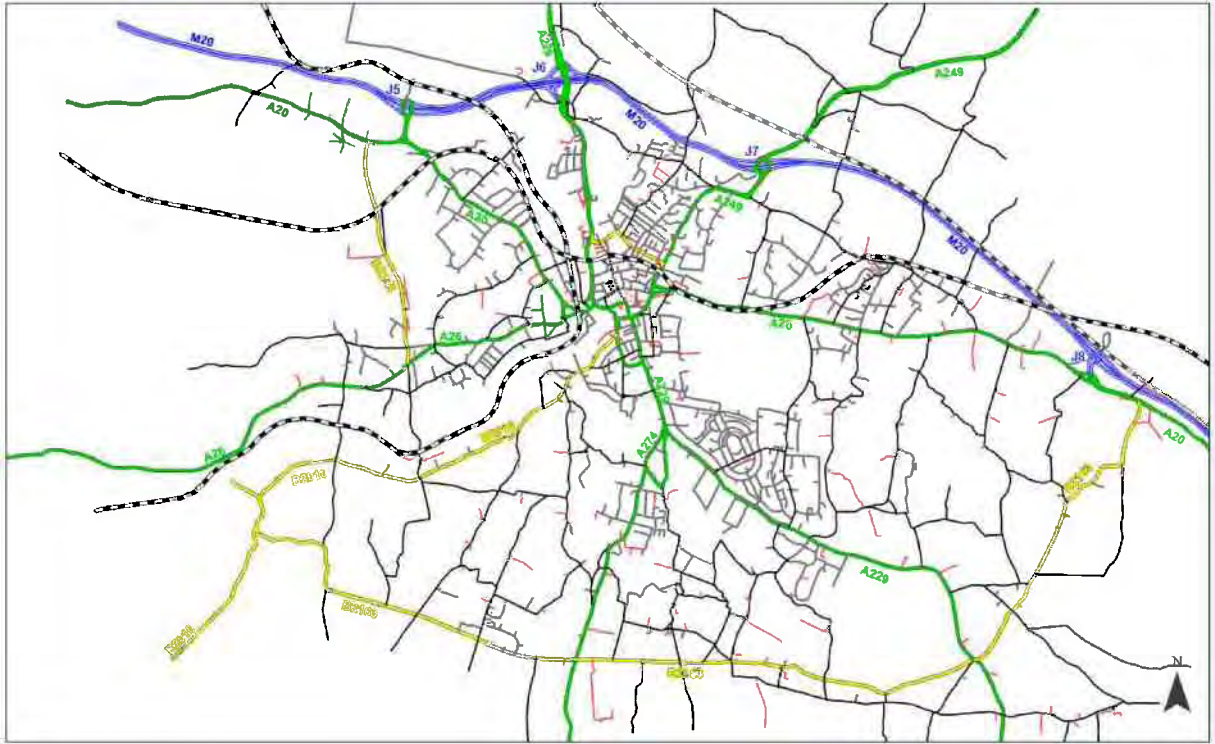


Figure 1.1 – Model Study Area

The four options tested are:

- Option A – 11,080 new homes, of which 3,725 would be in a south east urban extension
- Option B – 10,080 new homes, using a more dispersed pattern of development
- Option C – 8,200 new homes, also with dispersed distribution
- Option S - (the “Optimal” distribution) – 10,080 new homes

The report contains details on mode share, cordon traffic movements, journey times and travel demand. Figures 1.2 and 1.3 show the locations of cordon sites and the journey time routes.

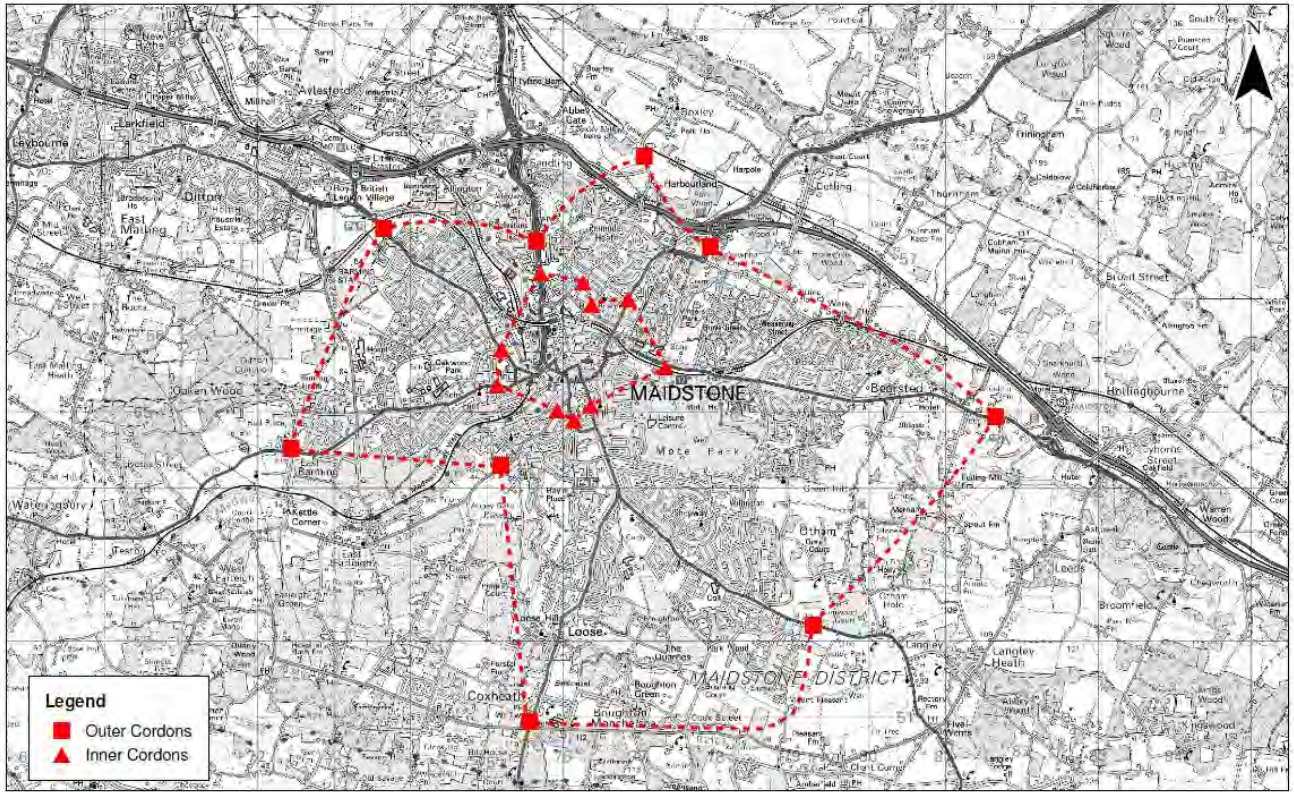


Figure 1.2 – Location of Cordons

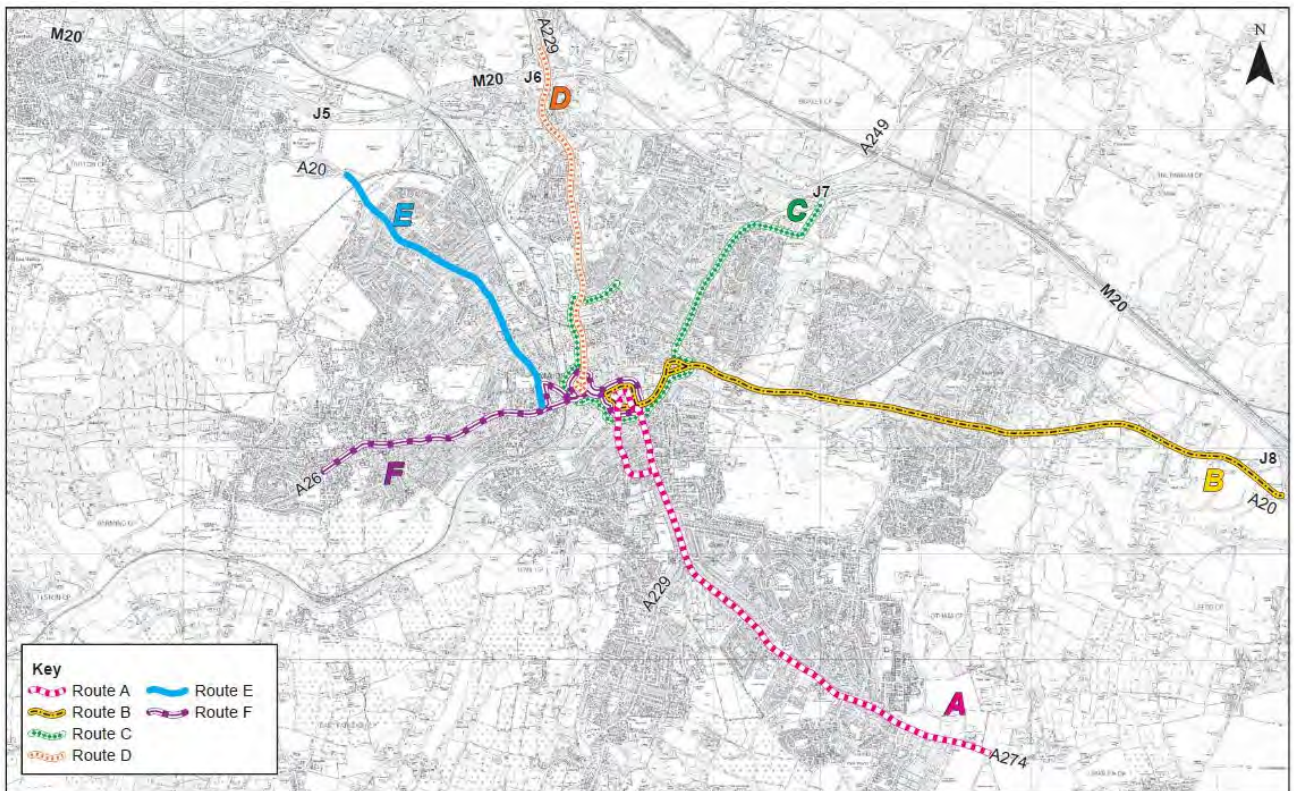


Figure 1.3 – Journey Time Routes

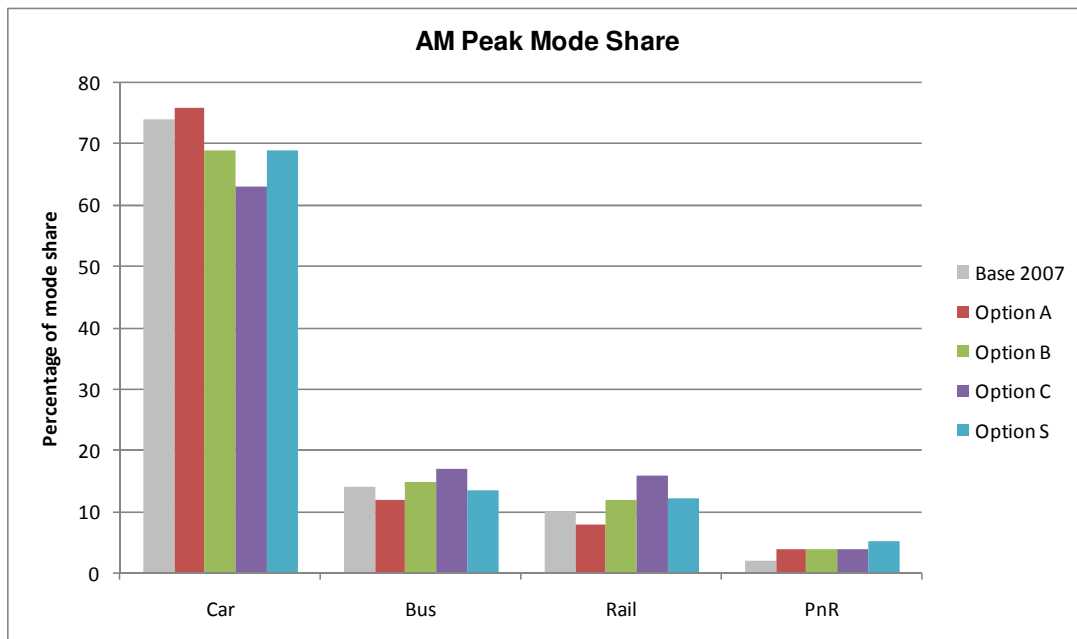
2

Mode Share

Mode Share – AM Peak

AM Peak - Person Trips by Mode Share					
Mode	Base 2007	Option A	Option B	Option C	Option S
Car	26,043	34,926	31,580	28,457	30,932
Bus	4,837	5,587	6,921	7,439	6,056
Rail	3,517	3,610	5,355	7,285	5,499
PnR	979	1,735	1,606	1,830	2,317
Total	35,376	45,858	45,462	45,011	44,804

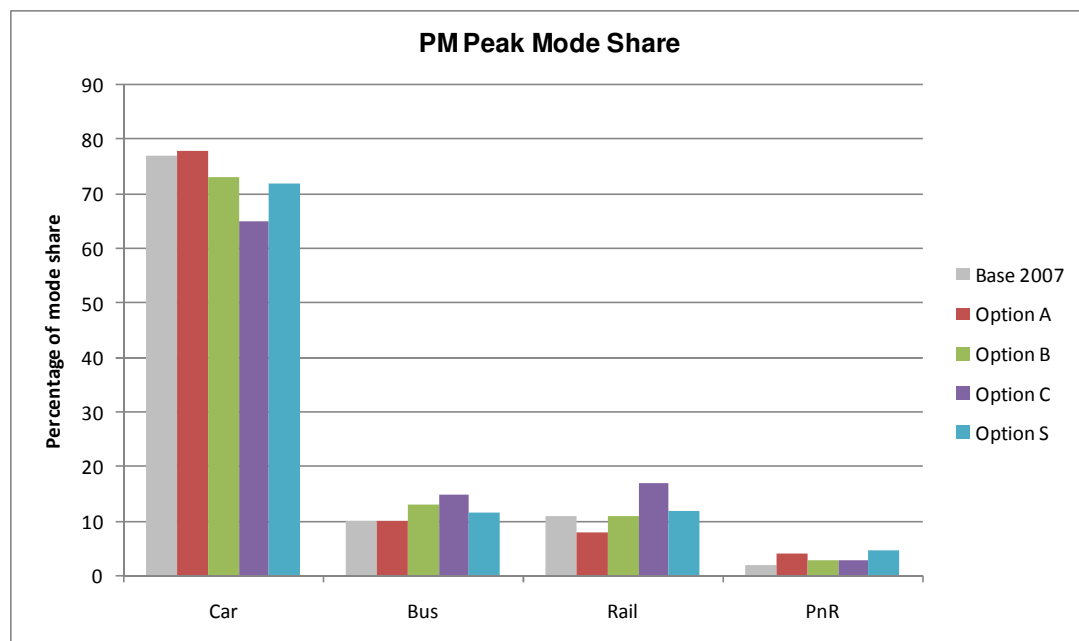
AM Peak - Person Trips by Mode Share (%)					
Mode	Base 2007	Option A	Option B	Option C	Option S
Car	73	76	69	63	69
Bus	14	12	15	17	14
Rail	10	8	12	16	12
PnR	3	4	4	4	5
Total	100	100	100	100	100



Mode Share – PM Peak

PM Peak - Person Trips by Mode Share					
Mode	Base 2007	Option A	Option B	Option C	Option S
Car	24,247	32,516	29,161	24,201	28,107
Bus	3,259	4,168	5,171	5,550	4,518
Rail	3,347	3,444	4,536	6,170	4,658
PnR	593	1,348	1,248	1,422	1,800
Total	31,446	41,476	40,116	37,343	39,083

PM Peak - Person Trips by Mode Share (%)					
Mode	Base 2007	Option A	Option B	Option C	Option S
Car	77	78	73	65	72
Bus	10	10	13	15	12
Rail	11	8	11	17	12
PnR	2	4	3	3	4
Total	100	100	100	100	100

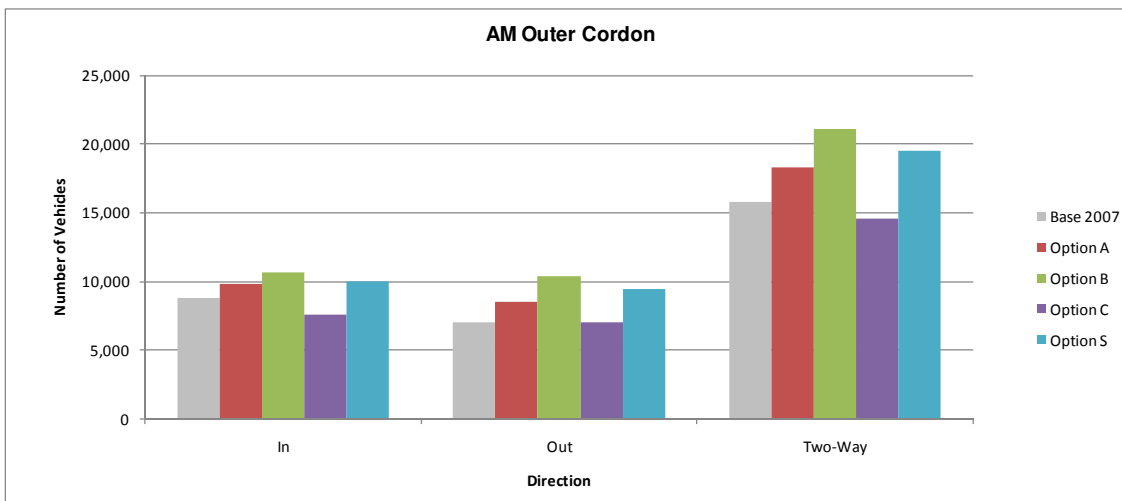
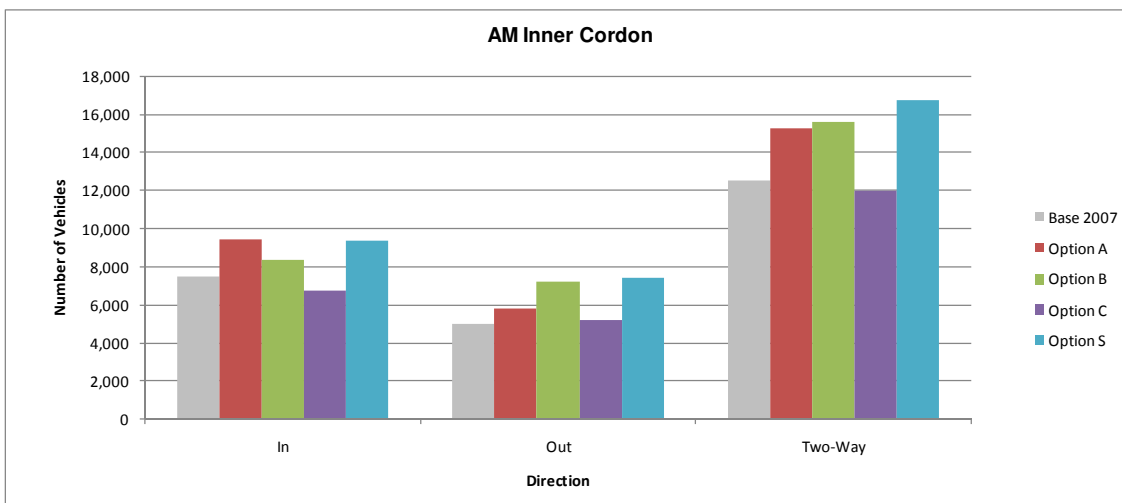


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Cordon Traffic Movements

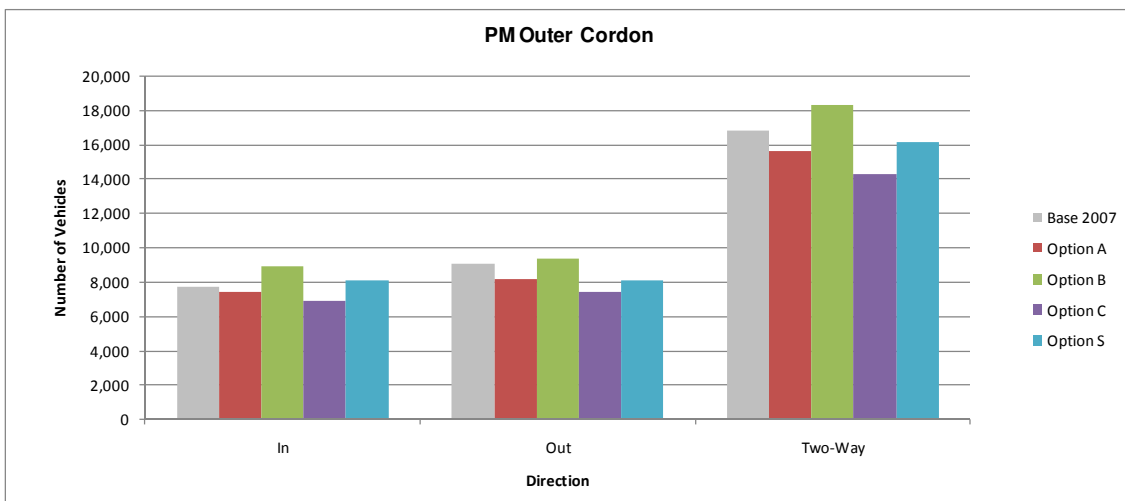
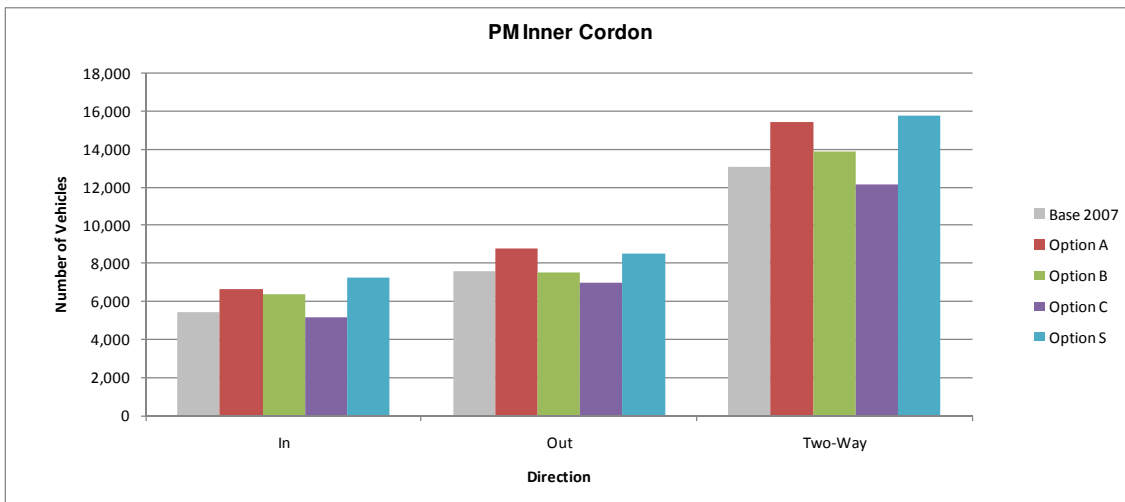
Cordon Traffic Movements – AM Peak

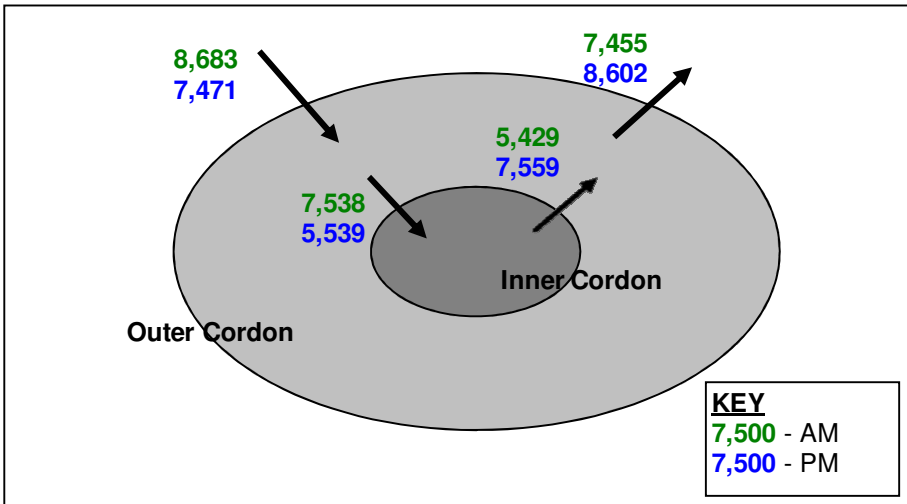
AM Peak - Inner Cordon Traffic Flow					
Direction	Base 2007	Option A	Option B	Option C	Option S
In	7,477	9,462	8,364	6,765	9,374
Out	5,043	5,804	7,227	5,210	7,406
Two way	12,520	15,266	15,591	11,975	16,780
AM Peak - Outer Cordon Traffic Flow					
Direction	Base 2007	Option A	Option B	Option C	Option S
In	8,757	9,804	10,676	7,542	10,030
Out	6,996	8,497	10,384	7,002	9,481
Two way	15,753	18,301	21,060	14,544	19,511



Cordon Traffic Movements – PM Peak

PM Peak - Inner Cordon Traffic Flow					
Direction	Base 2007	Option A	Option B	Option C	Option S
In	5,446	6,637	6,374	5,157	7,254
Out	7,610	8,820	7,512	7,013	8,501
Two way	13,056	15,457	13,866	12,170	15,755
PM Peak - Outer Cordon Traffic Flow					
Direction	Base 2007	Option A	Option B	Option C	Option S
In	7,756	7,434	8,934	6,899	8,100
Out	9,044	8,208	9,343	7,421	8,081
Two way	16,800	15,642	18,273	14,320	16,181





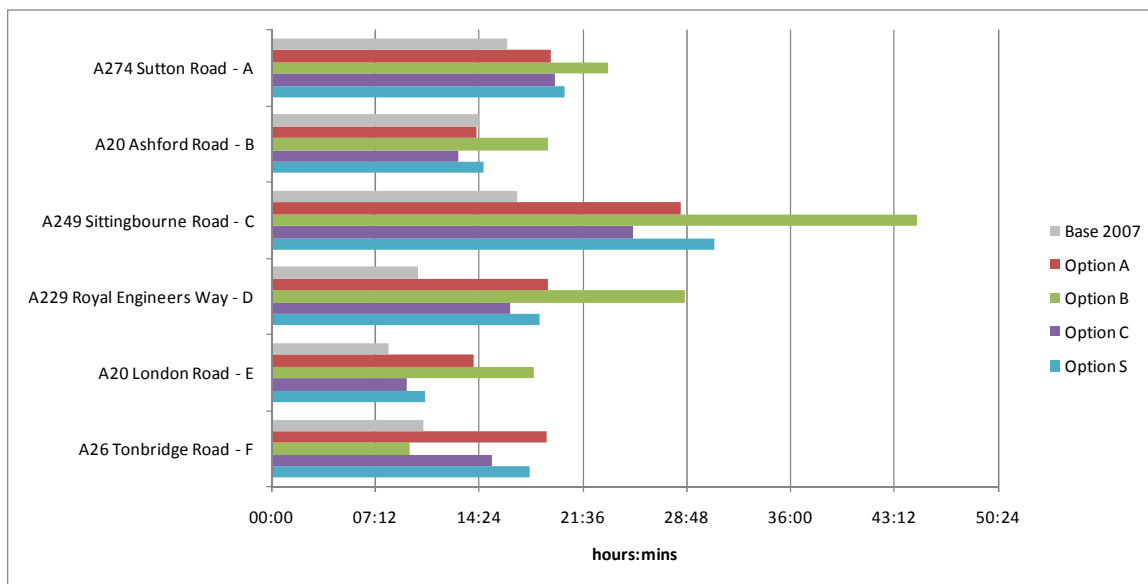
AM and PM cordon flows - 2007 Base Model

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Journey Times

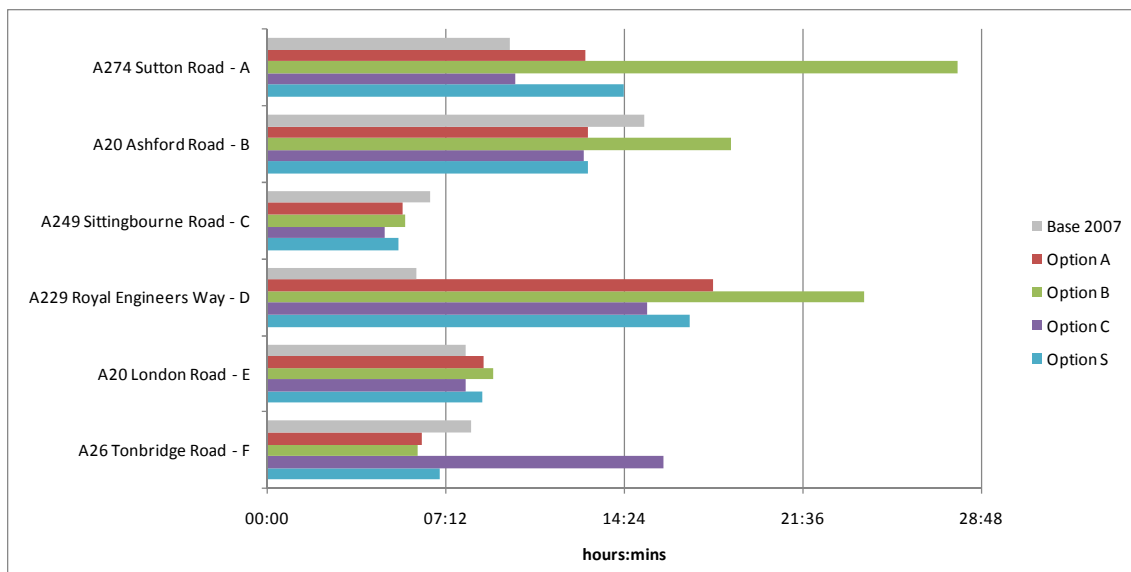
Journey Times – AM Peak

Route	Location	AM Peak Journey Time (mm:ss)				
		Base 2007	Option A	Option B	Option C	Option S
A	A274 Sutton Road	16:20	19:23	23:21	19:40	20:19
B	A20 Ashford Road	14:24	14:11	19:12	12:56	14:43
C	A249 Sittingbourne Road	16:59	28:22	44:47	25:03	30:41
D	A229 Royal Engineers Way	10:08	19:12	28:42	16:35	18:34
E	A20 London Road	08:05	14:04	18:11	09:21	10:39
F	A26 Tonbridge Road	10:34	19:04	09:36	15:19	17:56



Journey Times – PM Peak

Route	Location	PM Peak Journey Time (mm:ss)				
		Base 2007	Option A	Option B	Option C	Option S
A	A274 Sutton Road	09:47	12:50	27:50	09:58	14:23
B	A20 Ashford Road	15:12	12:56	18:40	12:47	12:57
C	A249 Sittingbourne Road	06:34	05:28	05:35	04:45	05:17
D	A229 Royal Engineers Way	06:00	17:58	24:04	15:17	17:02
E	A20 London Road	07:58	08:43	09:07	08:01	08:39
F	A26 Tonbridge Road	08:14	06:14	06:04	15:59	06:57

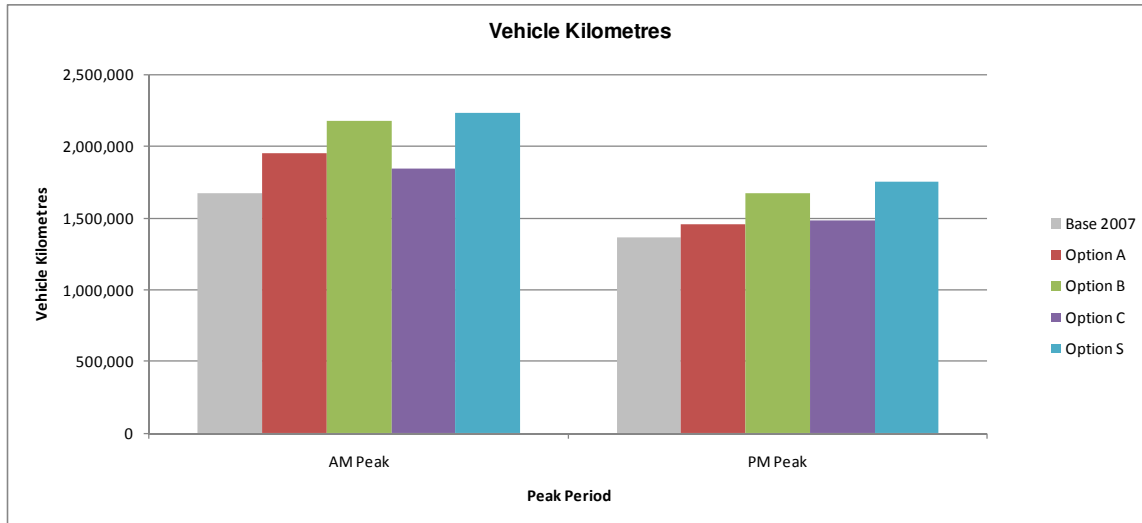


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Travel Demand

Travel Demand – Vehicle Kilometres

	Total Vehicle Kilometres				
	Base 2007	Option A	Option B	Option C	Option S
AM Peak	1,667,863	1,948,256	2,173,599	1,840,795	2,226,001
PM Peak	1,363,670	1,454,248	1,675,420	1,481,724	1,748,887



Travel Demand – Person Trips

	Total Travel Demand (Person Trips)				
	<i>Base 2007</i>	Option A	Option B	Option C	Option S
AM Peak	<i>35,376</i>	45,858	45,462	45,011	44,804
PM Peak	<i>31,446</i>	41,476	40,116	37,343	39,083

