

A5300/A562 Junction Major Scheme Business Case

Economic Appraisal Report

August 2014

Knowsley Borough Council



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## **Executive Summary**

Mott MacDonald has undertaken analysis of transport economic benefits for transport improvements at the A5300/A562 strategic junction as part of a Major Scheme Business Case. The economic appraisal has mainly used the Department for Transport TUBA (Transport Users Benefit Appraisal) software which carries out economic appraisal in accordance with published DfT guidance. The appraisal is based on data from the Liverpool City Region Transport Model (LCRTM) and travel cost changes implied by the proposed improvements.

The economic analysis shows that the proposed transport intervention reduces delays at the A5300/A562 junction and reduces journey times for traffic passing through this junction which consists mainly of long distance traffic movements. This delivers Present Value of Benefits of £36m over a 60 year appraisal period. Considered together with the scheme cost of £5.3m, the transport improvements yield a Benefit-to-Cost ratio (BCR) of 6.9.

Monetised Costs and Benefits (in 2010 prices and discounted to 2010)	
Present Value of Benefits (PVB)	£36m
Present Value of Costs (PVC)	£5.3m
OVERALL IMPACTS	
Net Present Value (NPV)	£31m
Benefit to Cost Ratio (BCR)	6.9

A BCR of 6.9 is considered *very high value for money* according to DfT criteria. This BCR includes quantitative benefits that cover main economic appraisal benefits from TUBA, wider economic benefits (agglomeration and welfare) from WITA/OWeL and reliability benefits.

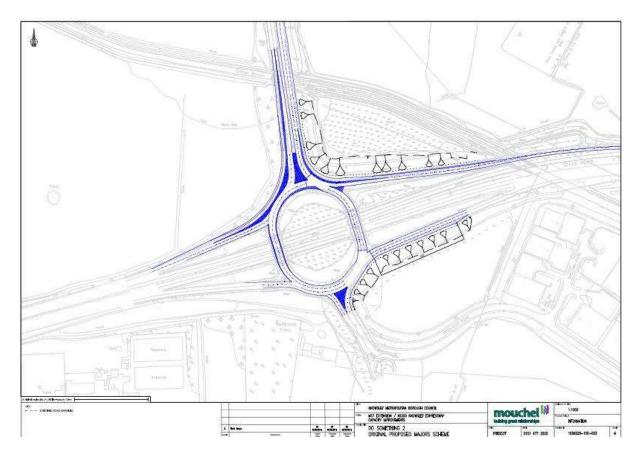


## 1 Modelling Methodology and Assumptions

#### 1.1 Introduction

An economic appraisal and assessment of Value for Money (VfM) have been carried out for transport improvements for the A5300/A562 junction that are part of a Major Scheme Business Case for Knowsley Borough Council. A detailed description of the scheme is given in the Strategic Case. The existing junction and three capacity improvement options were assessed using LINSIG and the preferred option only forms the basis for this economic appraisal and the VfM assessment. This scheme is shown below.

The preferred alignment is Option 2 as set out in the Options Appraisal Report and is consistent with the scheme originally proposed for major scheme funding at this junction. The scheme proposes to extend the length of the left-hand free flowing slip lane from the A5300 to the A562 Eastbound, compared with the proposal contained in the Local Pinch Point (LPP) scheme, requiring the widening of the bridge over Ditton Brook, together with the addition of a continuous flow left slip lane from the A562 Eastbound to the A5300 Northbound and the extension of the A562 Westbound off slip nearside flare.



#### Figure 1.1: A5300/A562 Junction Capacity Improvement Scheme

This report gives the economic appraisal and Value for Money (VfM) assessment carried out for the scheme and takes account of wider impacts of the proposed scheme because of its strategic nature and location.



### **1.2** Scope of the Appraisal

The economic appraisal has been carried out in line with Department for Transport Guidance with a number of relevant simplifying assumptions adopted specifically to produce robust VfM assessment for the A5300/A562 scheme and that are consistent with local evidence. Much use is made of modelling evidence and outputs from the Liverpool City Region Transport Model (LCRTM) which has been used for several DfT-funded projects within Merseyside.

The appraisal has also employed OWeL (Operating WITA Extended Locally) - a toolkit that is compatible with the LCRTM and enables wider economic benefits and impacts of multi-modal transport interventions to be quantified. It produces Merseyside wider economic benefits that are largely calculated by the Department for Transport's WITA software (which is based on WebTAG A2.1).

The economic benefits calculated for the scheme include:

- Transport economic benefits (WebTAG A1). The transport economic appraisal has been undertaken using the TUBA (Transport Users Benefit Appraisal) program which carries out economic appraisal in accordance with published DfT guidance. This is based on trip and cost matrices from the Liverpool City Region Model and travel cost changes implied by the proposed schemes.
- Wider economic benefits (using WITA/OWeL). This follows WebTAG methodology (WebTAG Unit A2.1) and only captures impacts that are not already included in the conventional user benefit calculations from TUBA. These include agglomeration; increased/decreased output in imperfectly competitive markets; and labour market impacts. However, the wider economic benefits calculated here do not include new jobs or changes in GVA which may be part of separate analysis.
- Journey reliability benefits (WebTAG A1). The estimate of journey time reliability benefits is made to satisfy the 'Reliable journeys' sub-objectives within the 'Economy' section of scheme appraisal. The calculations assume that the model area is dominated by urban regions and therefore uses the urban journey time reliability calculations that are set out in the TAG unit.

Reliability benefits and wider economic benefits are included in the calculation of a modified BCR as suggested by DfT guidance<sup>1</sup>. Other components of the benefits of the schemes are described qualitatively in the Appraisal Summary Table.

#### **1.3** Assumptions

In order to arrive at the economic benefits summarised in Table 2.1 below a number of modelling and appraisal assumptions have been adopted. The standard WebTAG appraisal forms the basis of the approach with specific assumptions and simplifications made to allow best use of available local modelling data and perceived nature of the schemes and longevity of their impacts.

<sup>&</sup>lt;sup>1</sup> Value for Money Assessment: Advice Note for Local Transport Decision Makers, Department for Transport. https://www.gov.uk/government/uploads/system/uploads/attachment\_data/file/267296/vfm-advice-local-decision-makers.pdf



### 1.3.1 Appraisal period

The A5300/A562 scheme has impact on both local and strategic traffic movements. On this basis, and the fact that the total scheme costs exceed £5m (if Pinch Point funds are included), the WebTAG recommended appraisal period of 60 years has been adopted.

### **1.3.2 Modelled years**

The scheme is due for implementation during the period 2015-2017. In order to be proportionate in the modelling effort for the appraisal, the economic assessment has been based on traffic modelling of 2014 and 2024 where data is readily available for the Liverpool City Region Model. These results are then interpolated and extrapolated accordingly (in the modelling and appraisal tools) to obtain economic benefits for all other years, which are then discounted to 2010.

### 1.3.3 Annualisation

Annualisation factors convert benefits calculated for each day into totals for the full year. To achieve this, annualisation factors developed for the Liverpool City Region Model have been adopted. These factors have been used and accepted by the DfT on funding application projects such as LSTF, Local Pinch Point applications, and Better Bus Fund. The annualisation factors are robust and suitable for the current appraisals.

### 1.3.4 Scheme Costs for Appraisal

The appraisal of the improvements has excluded funding secured through pinch point bid. The cost calculations are given in Table1.1 below. In line with DfT cost guidance an Optimism Bias of 15% has been applied in the appraisal.

#### Table 1.1:Scheme Costs for Appraisal

	All Costs in (£000s)
A5300/A562 junction improvements (2014 prices)	5,354
Level of Optimism Bias	15%
Total A5300/A562 Scheme Costs including Optimism Bias (2014 prices)	6,157
Total Scheme Costs including optimism bias and discounted to 2010 (2010 prices)	5,313



# 2 Economic appraisal results

The economic appraisal has been carried out in line with Department for Transport Guidance with a number of relevant simplifying assumptions adopted in order to produce a robust VfM assessment and maximise use of available modelling evidence. As indicated above, the DfT's TUBA software has been used to calculate the main economic benefits. Wider Economic benefits have been calculated using the Department's WITA software and Merseyside's OWeL dataset. Both analyses use transport modelling results from the Liverpool City Region Model that reflect delay and traffic reassignment impacts of the A5300/A562 schemes.

The table below presents the initial BCR calculated from the main economic benefits of the A5300/A562 scheme. In line with the appraisal guidance, a modified BCR has been calculated by including quantifiable wider economic benefits and journey reliability benefits that arise from the transport intervention. Table 2.1 below summarises the BCR calculations.

	Initial BCR	Modified BCR
Scheme Costs in 2014 prices	5,354	5,354
Scheme Costs (including optimism bias of 15%) in 2014 prices	6,157	6,157
(All entries below are present values discounted to 2010, in 2010 prices)		
Scheme Costs including optimism bias of 15%)	5,313	5.313
Main Transport Economic Benefits	26,083	26,083
Wider Economic Benefits (Agglomeration and Welfare Benefits)		8,371
Reliability Benefits		2,132
Present Value of Costs (PVC)	5,313	5,313
Present Value of Benefits (PVB)	26,083	36,586
Benefit to Cost Ratio (BCR)	4.9	6.9

#### Table 2.1:Appraisal summary (in £000s, 2010 prices if not stated)

Table 2.1 shows that the A5300/A562 scheme is forecast to deliver a present value of main transport economic benefits (PVB) of **£26m** over standard appraisal period of 60 years. When the PVB is taken together with the present value of scheme costs (PVC) of **£5m** the initial BCR is calculated as **4.9**. According to Department for Transport Guidance, the BCR of **4.9** represents **Very High Value for Money**.

However, the A5300/A562 has large impacts on strategic movements. The changes in travel cost at this junction will produce wider economic benefits, of which agglomeration and welfare benefits have been calculated. Journey time reliability benefits have also been calculated and included in the calculation of the modified BCR:

- Journey time reliability benefits this accounts for an additional £2.1m which is equivalent to 8% of the main TUBA-based economic benefits.
- Wider economic benefits (which are predominantly agglomeration benefits) account for £8.4m.This
  uses OWeL/WITA economic dataset in the calculations.

Therefore, the modified BCR is more indicative of the quantifiable economic benefits of A5300/A562 scheme. This is calculated as 6.9 and represents **Very High Value for Money**.



### 2.1 Economic Appraisal Results

The economic results are summarised in the following tables that are given in the pages that follow:

Transport Economic Efficiency Table impacts (TEE)

The transport modelling has shown that improvements to the A5300/A562 junction would produce significant overall delay and journey time reductions for traffic. The TEE table reflects this and shows that the transport intervention produce overall Present Value of Benefits (PVB) of £26m (2010 prices, discounted to 2010) almost all of which are time benefits.

The strategic location of the A5300/A562 junction provides very few rerouting opportunities for most movements. Therefore there are small changes in distance travelled resulting in low benefits associated with vehicle operation costs. The TEE table in Table 2.2 confirms this.

Public Accounts impacts (PA)

The impact on public accounts for the A5300/A562 scheme costs as set out in Table 1.1 is a cost to public accounts of  $\pounds$ 5.313m. As a result of reductions in travel costs for drivers as a result of the schemes, there is also a small increase of  $\pounds$ 0.2m in Indirect Tax revenue to central government.

This is given in Table 2.3.

Analysis of Monetised Costs and Benefits (AMCB)

The AMCB details are given in Table 2.4 and show an overall cost of the scheme as £5m against an overall present value of benefits of £26m having allowed for impacts of indirect taxation on the economy and greenhouse gases.

This gives an initial BCR of 4.9 before wider impacts and journey time reliability are included.

Wider Impacts benefits table

The wider impacts of the scheme (i.e. agglomeration and welfare benefits) account for £8.4m of additional benefits. This does not, of course, include GVA impacts of the scheme which are subject of a separate analysis and report.

Wider economic benefits are given in Table 2.5.

Journey reliability benefits table

Journey time reliability benefits arise from more predictable journey times from decongestion impacts of the scheme. Reliability benefits have been calculated as £2.1m.

Reliability benefits are shown in Table 2.6.

Once wider economic impacts and reliability benefits are included to produce the full economic impacts of the A5300/A562 schemes the BCR is calculated as 6.9.



#### Appraisal Summary Table (AST)

Appendix H to the Outline Business Case presents the AST providing details of the impacts of the scheme. Both qualitative and quantitative benefits are recorded as required by DfT guidance.

#### Table 2.2: Economic Efficiency of the Transport System (TEE) Table

Economy: Economic Efficiency of the Transport System (TEE) (£000s)

Concurrer Commuting upor honofite		Deed
Consumer - Commuting user benefits	All Modes	Road
Travel Time	7,005	7,005
Vehicle operating costs	944	944
User charges	0	0
During Construction & Maintenance	0	0
NET CONSUMER - COMMUTING BENEFITS	7,950	7,950
Consumer - Other user benefits	All Modes	Road
Travel Time	3,574	3,574
Vehicle operating costs	-1,166	-1,166
User charges	0	0
During Construction & Maintenance	0	0
NET CONSUMER - OTHER BENEFITS	2,407	2,407
NET CONSUMER - OTHER BENEFITS	2,407	2

Business	All Modes	Road Personal	Road Freight
Travel Time	14,728	10,303	4,424
Vehicle operating costs	1,079	118	962
User charges	0	0	0
During Construction & Maintenance	0	0	0
Subtotal	15,807	10,421	5,386

Private Sector Provider Impacts		
Revenue	0	0
Operating costs	0	0
Investment costs	0	0
Grant/subsidy	0	0
Subtotal	0	0
Other business Impacts		
Developer contributions	0	0
NET BUSINESS IMPACT	15,807	
TOTAL		
Present Value of Transport Economic		

26,164

Note: Benefits appear as positive numbers, while costs appear as negative numbers. All entries are present values discounted to 2010, in 2010 prices

Efficiency Benefits (TEE)



#### Table 2.3:Public Accounts (PA) Table

Public Accounts (£000s)		
Local Government Funding	ALL MODES	Road
Revenue	0	0
Operating Costs	0	0
Investment Costs	0	0
Developer Contributions	0	0
Grant/Subsidy Payments	0	0
NET IMPACT	0	0
Central Government Funding: Transport	ALL MODES	Road
Revenue	0	0
Operating costs	0	0
Investment costs	5,313	5,313
Developer Contributions	0	0
Grant/Subsidy Payments	0	0
NET IMPACT	5,313	5,313
Central Government Funding: Non-Transport		
Indirect Tax Revenues	188	188
TOTALS		
Broad Transport Budget	5,313	5,313
Wider Public Finances	188	188

Note: Costs appear as positive numbers, while revenues and developer contributions appear as negative numbers. All entries are present values discounted to 2010, in 2010 prices

#### Table 2.4: Analysis of Monetised Costs and Benefits (AMCB) Table

Analysis of Monetised Costs and Benefits (£000s)	
Greenhouse Gases	107
Economic Efficiency: Consumer Users (Commuting)	7,950
Economic Efficiency: Consumer Users (Other)	2,407
Economic Efficiency: Business Users and Providers	15,807
Wider Public Finances (Indirect Taxation Revenues)	-188
Present Value of Benefits (PVB)	26,083
Broad Transport Budget	5,313
Present Value of Costs (PVC)	5,313
OVERALL IMPACTS	
Net Present Value (NPV)	20,770
Benefit to Cost Ratio (BCR)	4.909

Note: This table includes costs and benefits which are regularly or occasionally presented in monetised form in transport appraisals, together with some where monetisation is in prospect. There may also be other significant costs and benefits, some of which cannot be presented in monetised form. Where this is the case, the analysis presented above does NOT provide a good measure of value for money and should not be used as the sole basis for decisions.



#### Table 2.5: Wider Economic Benefits

#### SUMMARY OF WIDER IMPACTS

#### All entries are in thousands of pounds discounted to 2010 in 2010 Prices

Impacts for Each Modelled Year				
Appraisal Period:2014 to 2074	Year 2014	Year 2024	Full Appraisal Period	
Agglomeration				
Agglomeration – manufacturing	16	12	590	
Agglomeration – construction	11	8	392	
Agglomeration - consumer services	22	29	1,306	
Agglomeration - producer services	20	90	3,870	
Agglomeration – Total	69	139	6,158	
Labour supply impact	19	18	633	
Increased output in imperfectly competitive market			1,581	
The move to more/less productive jobs	0	0	0	
Total	88	156	8,371	

#### Table 2.6: Reliability Benefits

Reliability Benefits	£000s
Journey Time Variability Benefits 2014	66
Journey Time Variability Benefits 2024	40
Journey Time Variability Benefits (60 year period)	2,132
All entries are present values discounted to 2010 in 2010 prices	

All entries are present values discounted to 2010, in 2010 prices



## 3 Conclusions and Value for Money Statement

Economic benefits for the A5300/A562 improvement scheme have been calculated based on scheme preferred options as set out in the Strategic Case. The analysis provides an indication of likely economic benefits and BCRs using TUBA and other tools that support DfT methodologies. The A5300/A562 scheme reduces congestion at this junction and improves journey times for mostly strategic movements through the area. The journey time improvements forecast by the Liverpool City Region Model are significant and this is reflected in the economic benefits reported.

The calculation of the initial and modified BCR values is given in the table below. The monetised economic benefits (based on transport modelling outcomes) show that the scheme produces an overall BCR of **4.9** from Present Value of Benefits of **£26m** (2010 prices, discounted to 2010) and a cost to public accounts of **£5.35m** (2010 prices, discounted to 2010).

	Initial BCR	Modified BCR
Scheme Costs in 2014 prices	5,354	5,354
Scheme Costs (including optimism bias of 15%) in 2014 prices	6,157	6,157
(All entries below are present values discounted to 2010, in 2010 prices)		
Scheme Costs including optimism bias of 15%)	5,313	5.313
Main Transport Economic Benefits	26,083	26,083
Wider Economic Benefits (Agglomeration and Welfare Benefits)		8,371
Reliability Benefits		2,132
Present Value of Costs (PVC)	5,313	5,313
Present Value of Benefits (PVB)	26,083	36,586
Benefit to Cost Ratio (BCR)	4.9	6.9

#### Table 3.1: Appraisal summary (in £000s, 2010 prices if not stated)

According to DfT guidance and criteria<sup>2</sup>, both the initial BCR of 4.9 and the modified BCR of **6.9** represent **very high Value for Money.** The initial BCR is based on TUBA outputs alone (i.e. considers the main transport economic benefits only).

This assessment has been based on

- Journey time benefits
- Wider economic benefits and
- Reliability Benefits

It can be concluded, therefore, that the quantifiable elements of the benefits for A5300/A562 scheme produce a strong Value for Money case. Qualitative benefits are set out in the Appraisal Summary Table.

<sup>&</sup>lt;sup>2</sup> Value for Money Assessment: Advice Note for Local Transport Decision Makers, Department for Transport https://www.gov.uk/government/uploads/system/uploads/attachment\_data/file/267296/vfm-advice-local-decision-makers.pdf



## 4 Appendix: Economic Appraisal Listings

#### 4.1 Wider Economic Impacts – WITA/OWeL Run Output

Wider Impact in Transport Appraisal WITA V1.1i-4 Be Program run on Saturday, 16 August 2014 at 11:02:00

ERRORS AND WARNINGS 503 Warnings found

INPUT SUMMARY Run name DM scheme DS scheme

Economic parameter file C:\329623\Economics\WITA A5300\OWeL WITA Economics File.txt Scheme parameter file C:\329623\Economics\09\_BFS007\_A5300\_v2\_ExclExt\A5300Scheme\_1.7.txt Employment file C:\329623\Economics\WITA A5300\OWeL Employment.csv Transport-WITA zone correspondence file C:\329623\Economics\WITA\_A5300\LCRTMZone\_to\_WITA\_Csv District-WITA zone correspondence file C:\329623\Economics\WITA\_A5300\OWeL\_to\_WITA\_Zones.csv Commuting PA file C:\329623\Economics\WITA\_A5300\OWeL\_PACommuteMatrix.csv District Economics file C:\329623\Economics\WITA A5300\OWeL Economics Data.csv C:\329623\Economics\WITA\_A5300\OWeL\_GlobalData.txt Global Data file PA Zone Level LAD Zone Industry Segmentation Yes First Appraisal Ye 2014

A5300

Do Minimum

Do Something

First Appraisal Year	2014	
Last Appraisal Year	2074	
Modelled years	2014	2024

TRIP MATRIX TOTALS		
Annualised total trip nu	mbers(thousands)	
Submode Year Tim	e period DO MI	IN DO SOM
Car 2014 AM	peak 14786	57 147867
Car 2014 PM	peak 15820	158203
Car 2014 Int	er-peak	0 0
Car 2014 Off	-peak	0 0
Car 2014 Wee	kend	0 0
Car 2014 All	3060	306070
Car 2024 AM	peak 14786	57 147867
Car 2024 PM	peak 15820	158203
Car 2024 Int	er-peak	0 0
Car 2024 Off	-peak	0 0
Car 2024 Wee	kend	0 0
Car 2024 All	3060	306070
LGV Freight 2014 AM	peak 2031	4 20314
LGV Freight 2014 PM	peak 180 <sup>°</sup>	18079
LGV Freight 2014 Int	er-peak	0 0
LGV Freight 2014 Off	-peak	0 0
LGV Freight 2014 Wee	kend	0 0
LGV Freight 2014 All	3839	38393
LGV Freight 2024 AM	peak 2031	4 20314
LGV Freight 2024 PM	peak 180 <sup>°</sup>	18079
LGV Freight 2024 Int	er-peak	0 0
LGV Freight 2024 Off	-peak	0 0
LGV Freight 2024 Wee	kend	0 0
LGV Freight 2024 All	3839	38393
OGV1 2014 AM	peak 784	19 7849



OGV1	2014	PM peak	5320	5320
OGV1	2014	Inter-peak	0	0
OGV1	2014	Off-peak	0	0
OGV1	2014	Weekend	0	0
OGV1	2014	All	13169	13169
OGV1	2024	AM peak	7849	7849
OGV1	2024	PM peak	5320	5320
OGV1	2024	Inter-peak	0	0
OGV1	2024	Off-peak	0	0
OGV1	2024	Weekend	0	0
OGV1	2024	All	13169	13169
All	2014	AM peak	176030	176030
All	2014	PM peak	181602	181602
All	2014	Inter-peak	101002	101002
All	2014	Off-peak	0	0
All	2014	Weekend	0	0
			357632	357632
All	2014	All		
All	2024	AM peak	176030	176030
All	2024	PM peak	181602	181602
All	2024	Inter-peak	0	0
All	2024	Off-peak	0	0
All	2024	Weekend	0	0
All	2024	All	357632	357632

SUMMARY OF WIDER IMPACTS

All entries are in thousands of pounds discounted to 2010 in 2010 prices

Appraisal Period:2014 to 2074

	Impacts for Each Me Year 2014		Full Appraisal
Period			
Agglomeration - manufacturing	16	12	590
Agglomeration - construction	11	8	392
Agglomeration - consumer services	22	29	1306
Agglomeration - producer services	20	90	3870
Agglomeration - Total	69	139	6158
Labour supply impact	19	18	633
Increased output in imperfectly competitive market			1581
The move to more/less productive jobs	0	0	0
Total	88	156	8371



## 4.2 Main Economic Appraisal – TUBA Output

Transport Use Program run d			1 TUBA v1.9.1 t 2014 at 03:16:1	9						
- INPUT SUMMARY										
Run name DM scheme DS scheme		1	A5300 Do Minimum Do Something							
Economic para		ile	P:\Liverpool\ITD\	Projects\329623 Kn	owsley MSBC	- KIP 2013\I	CRTM Modelling	Economics\09	BFS007_A5300_v	72_ExclExt\economics_1.9.1.txt 72_ExclExt\A5300Scheme.txt
First year o:			2014	rrojects(529625 kn	OWSIEŻ WSBC	KIP 2013(1	CRIM MODELLING	(ECONOMICS (09	BF500/_A5500_V	2_EXCIENT (ASSOUSCHEME.CXC
First Apprais Last Apprais Modelled year	sal Year al Year		2014 2074 2014 2024							
Time period AM peak			Total hours 637							
PM peak			675							
Inter-peak Off-peak			0							
Weekend Total			0 1312							
Note: All mon	netary v	alues are in	n 2010 market pri:	ces. All monetary	values disc	counted to 201	0 unless otherw	vise stated.		
DM_SCHEME_COS		ata Undian	ounted 5000a							
Mode	Year	Pr	ep. Superv.	Constr.	Land	Maint.	Oper.	Grant/Sub		-
Road Road	2014		0 0 0 0	0	0	0	0	0		
Road	2016		0 0	0	ō	0	0	0	0	
Road	2017		0 0	0	0	0	0	0	0	
	scheme		scounted £000s							
		Pr	ep. Superv. 0 0	Constr. 371	Land 0	Maint. O	Oper. O	Grant/Sub 0		:
Road	2015		0 0	3398	0	0	0	0	0	
Road Road	2016 2017		0 0 0 0	2227 403	0	0	0	0	0	
PRESENT_VALU	e_costs									
Scheme invest Mode	tment an Year	d operating DM scheme c	costs (i.e. exclu osts DS scheme cos	uding grant/subsid sts Difference	y, develope	er contributio	ns and delays)	and differenc	es. £000s.	
Road	2014		0	323 323						
Road Road	2015 2016		0 21	861 2861 812 1812						
Road Road	2017 Total			317 317 313 5313						
TRIP MATRIX :										
Annualised to	otal tri									
Submode Car		Time perio AM peak	d DO MIN 147867	DO SOM 147867						
Car Car	2014	PM peak Inter-peak	158203							
Car	2014	Off-peak	0 0 0	0						
Car Car	2014 2014	Weekend	0 306070	0 306070						
Car	2024	AM peak	147867	147867						
Car Car		PM peak Inter-peak	158203							
Car	2024	Off-peak	0	U						
Car Car	2024	Weekend All	306070							
LGV Freight LGV Freight		AM peak PM peak	20314 18079							
LGV Freight	2014	Inter-peak	0	0						
LGV Freight LGV Freight		Off-peak Weekend	0	0						
LGV Freight	2014	All	38393	38393						
LGV Freight LGV Freight	2024	AM peak PM peak	20314 18079	18079						
LGV Freight LGV Freight	2024	Inter-peak Off-peak	0	0						
LGV Freight	2024	Weekend	0							
LGV Freight OGV1	2024 2014	All AM peak	38393 7849							
OGV1	2014	PM peak	5320	5320						
OGV1 OGV1		Inter-peak Off-peak	0	0						
OGV1	2014	Weekend	0							
OGV1 OGV1		AM peak	13169 7849	13169 7849						
OGV1 OGV1		PM peak Inter-peak	5320							
OGV1	2024	Off-peak	0	0						
OGV1 OGV1		Weekend All	0 13169	0						
A11	2014	AM peak	176030	176030						
All All		PM peak Inter-peak	181602							
All	2014	Off-peak	0	0 0 0						
All All		Weekend All	0 357632	357632						
All	2024	AM peak	176030 181602							
All All	2024	PM peak Inter-peak	0	0						
All All	2024	Off-peak Weekend	0	0						
All		All	357632							
DM&DS_USER_CO										
Total value o Mode	of user Year	costs, DM an DMtot tim	nd DS. £000s. me DMtot charge	DMtot_fuel DMto	t nonfuel	DStot time	DStot charge	DStot fuel	DStot nonfuel	
Road	2014	15809	68 0	483471	339088	1580355	0	483440	339062	
Road	2024	13085	53 0	290389	240815	1308005	0	290380	240803	

# A5300/A562 Junction Major Scheme Business Case Economic Appraisal Report



Tank and an analysis and a second and a sec	FUEL CONSUMP	TION												
minery of the set			, DM and DS. k				Do something							
Carbon         251         1512 <t< th=""><th>Submode</th><th>Year</th><th>Petrol</th><th></th><th>Electric</th><th>Petrol</th><th></th><th>Electric</th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Submode	Year	Petrol		Electric	Petrol		Electric						
	Car	2014	160996	131095	350	160971	131077	350						
Dial And Dial And		2024	99329	111852	13411	99332	111852	13413						
Dial And Dial And	LGV Freight		2086	42877		2086	42896							
OPTIC         Dist         Dist <thdist< th="">         Dist         Dist         <th< td=""><td>LGV Freight</td><td></td><td></td><td></td><td></td><td>499</td><td></td><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td></th<></thdist<>	LGV Freight					499		0						
Alt         201         1000         2010	OGV1													
Alt         201         1000         1001         1001         1001         10000         1000         1000														
Cont         No.         No. </td <td></td>														
Image         Image <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>														
Opti         India         Jacking         Jacking <thjacking< th=""> <thjacking< th=""> <thjacki< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thjacki<></thjacking<></thjacking<>														
Ali     Text														
Control         Unit         Unit <thunit< th="">         Unit         Unit         &lt;</thunit<>														
Dat         D	All	Total	5608196	11634563	1582448	5608194	11634004	1582676						
Set         1214         43735         43849        63         9997         -37         1996         1979        33         1997         1997         1998         1978 <th< td=""><td>CO2_EMISSIONS</td><td>S_UNTRADED</td><td></td><td>missions (tonne</td><td>(8)</td><td></td><td>cost (£000s, 10</td><td>w)</td><td></td><td>cost (£000s, cen</td><td>tral)</td><td></td><td>cost (£000s,</td><td>high)</td></th<>	CO2_EMISSIONS	S_UNTRADED		missions (tonne	(8)		cost (£000s, 10	w)		cost (£000s, cen	tral)		cost (£000s,	high)
Cor         No.         No. <td>Submode</td> <td></td> <td>Increase</td>	Submode													Increase
Soft Packar														-5
International         Internat														-3
cord         204         0        0         0         0 <td></td> <td>0</td>														0
Conv.         Conv. <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td></th<>														0
Ali         2014         60716         60216         60216         9996         4-2         1996         4-3         1997         2996         2996           Ali         2037         19641         3070         4-4         1997         7464         4-1         1997         4-3         2997         2996           Ali         2037         14641         4-4         1997         7464         4-1         1997         1997         4-3         1997         4-3         1997         4-3         1997         4-3         1997         4-3         1997         4-3         1997         4-3         1997														0
Al.1       205       30202       30202      2       954       1070       -2       1070       1070       2010       2010       2010       2010         Al.1       2010       30505       30505       1070       1070       1070       1070       2010       2010       2010         Al.1       2010       30505       30505       1020       100       10000       1000       1000	OGV1													0
All       205       37154       37154       37154       37154       3263       2635         All       201       34254       34254       342       375       3754       3424       3425														-5
All       2037       36283       34681       4469       446       379       7467       16934       16922       -2       2396       2397         All       203       3203       32243       -44       700       700       -1       1407       1107       -2       2396       2398         All       203       3203       32243       -47       707       607       -4       1077       1078       -2       1099       2398       2398         All       203       3207       32073       440       609       6097       -4       1074       1078       -2       1099       1099         All       203       20709       27168       -40       1099       -4       1099       -4       1099       40       1099       40       1099       40       1099       40       1099       40       1099       40       1099       40       1099       40       1099       40       1099       40       1099       40       1099       40       1099       40       1099       1099       1099       1099       1099       1099       1099       1099       1099       1099       1099       1099														-5
All         2019         34089         3409         34														-4
All       2019       35558       35547      2       7532        1400       1002        2207       2208         All       200       32334        1000       1000        1000       1000        1000       1000        10000       1000       1000														-4
Al1       202       32233       32244       -49       709       709       -1       14202       14107       -2       2299       2299         Al1       202       31203       32233       3424       400       6079       -1       1102       1124       -2       1203       3203         Al1       202       21103       21109       21464       400       6079       -1       11144       11244       -2       12134       11034														-4
Al1       2021       312063       312053      47       6736       6735      1       13272       13705      2       20285       13932         Al1       2023       31273       20132       20130      46       6795      1       11041       1103      2       12057       11037         Al1       2025       21103       21164      40       10041       11034       11031      2       11045       11045         Al1       2056       224601       224744      30       5214       5213      1       10048       10467      2       11045       11464         Al1       2020       224601       224603      3       4038       403      1       1948       1940       -4       12451       12451       12451       12451         Al1       2031       22467       22467       -4       4038       -4       4038       4038       -4       4038       4038       -4       4038       4038       -4       4038       4038       -4       4038       4038       -4       4038       4038       -4       4038       4038       -4       40389       -4       10057       <														- 3
All       202       31737       30772       4-6       6.937       6.97       -1       1276       1276       -2       1195       1195       1285         All       202       21637       21639       21639       4.6       577       576       -1       1284       1.6       1297<														-3
All       222       2922       2922       2922       2922       1213       1214       -2       1213       1214       -2       1213       1214         All       2025       21109       21109       12140       -4       1314       1001       -2       12134       1414         All       2025       21098       21098       -2       1414       -2       1004       1002       -2       1414       1414         All       2025       22098       22098       -2       4053       4051       -1       9040       -1       12464       1444         All       2025       22098       22492       -3       4053       4051       -1       9010       907       -1       12464       1244         All       2023       22997       22292       -3       4054       4051       -1       9040       9077       -1       1362       1364         All       203       22969       22460       -4       4643       -1       9040       9047       -1       1362       1364         All       203       22969       22460       44       454       41       9049       -2       1														- 3
Ail       224       2182       21899       -42       977       978       -1       1114       1113       -2       1729       1728         All       225       27709       27868       -40       442       481       -1       1004       1929       -2       1464       1443         All       225       27808       27808       27808       -40       481       -1       1004       1969       -1       1366       1464         All       203       22690       23800       -3       4031       403       -1       8030       8043       -1       1360       13601         All       203       22690       23800       -3       4042       4031       -1       8030       8043       -1       1360       13601         All       203       22690       23800       -4       4044       4044       -1       8039       917       -1       1440       1444         All       203       22690       22690       -4       4049       4049       10137       10164       -2       1560       1359         All       203       22690       -4       3164       513       5130 </td <td></td> <td>- 3</td>														- 3
All         222         7170         71469         -40         542         5431         -1         10020         10027         -2         1636         1633           All         2027         37000         37060         -36466         -36         482         481         -1         10020         10027         -1         1404         1404           All         2027         37000         37060         -36         482         481         -1         9807         -1         1406         1404           All         2037         23700         23700         -36         442         4015         -1         8951         6907         -1         1370         1370           All         2037         23207         23203         -4         4024         4014         -1         8951         -1         1370         1370         1370           All         2038         22690         22690         -4         4014         4014         992         917         -1         1370         1370         1370           All         2040         22690         -4         5150         -1         10123         10164         -2         1630         1600<														- 3
All       2026       24480       24746       -19       5214       5213       -1       10423       10427       -2       15643       15640         All       2029       22088       22088       -3       4755       455       -1       9213       9209       -1       14646       14644         All       2010       22097       22097       -345       4154       4191       -1       8913       9309       -1       12037       12037       12038         All       2010       22097       22095       -34       4394       4491       -1       8914       8737       -1       13562       13364         All       2010       22095       -34       4394       4491       -1       8928       4973       -1       13562       1364         All       2010       22096       -34       4394       4949       -1       13512       -2       1561       1369       1469         All       2010       22094       22696       -34       5513       513       -1       10121       10104       -2       15761       1376         All       2010       22094       22696       -34 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>- 3</td></t<>														- 3
All       2027       227803       227865      18       4482       441       -1       9963       9962      1       14468       14483         All       2028       24039       24039      1       4154       4144      1       9963       9603      1       14263       14264         All       2021       24039       24039      1       4164       4164      1       9863       9613      1       14263       14264         All       2021       22997       22995      4       4264       4464      1       8163       973      1       11464       1444         All       2031       22984       22985      4       4264       4464      4       9849       9979       -1       14464       1444         All       2031       22984       22680       -4       4264														-2
All       2029       20090       20090														-2
All       2209       244039       244039       -46       4341       -4       000       9077       -4       12053       13021         All       2010       24497       234962       -33       4436       4435       -4       4931       8930       -4       12957       12951         All       2010       22497       234962       -33       4436       4434       -4       4934       8930       -4       12957       12951         All       2010       22696       22696       -34       4444       444       -4       4949       9957       -4       14453       14453         All       2010       22694       22696       -34       4947       4946       -4       9939       9952       -4       14539         All       2010       22694       22696       -34       5151       5153       -4       1075       10756       -2       1076       1539         All       202       22694       22696       -34       5511       5506       -4       1075       1076       -2       1637       1637         All       204       22694       22696       -34       5513														-2
All       2000       207042       207002       -15       418       410       -1       663       6844       -1       12897       12987         All       2010       223970       223935       343       4424       4494       -1       673       673       -1       12987       12987         All       2030       223970       22393       -34       4644       4494       -1       673       6733       -1       13164       13144         All       2035       22694       22696       -34       4644       4643       -1       673       9697       -1       14693       14697         All       2037       22694       22696       -34       4534       5333       -1       10267       10266       -2       15401       15401         All       2037       22694       22696       -34       5511       5540       -1       10267       10265       -2       1663       1663         All       2044       22694       22696       -34       5511       5502       -1       11262       11261       -2       1663       1663         All       2044       22694       22696														
All       201       24497       24497       24962       -15       4196       4195       -1       8390       -1       12376       12376       13376         All       2033       22096       23092       -34       454       456       -1       1238       13176       13176         All       2036       22094       22094       22096       -34       454       466       -1       123       9127       -1       14448       1444         All       2036       22694       22696       -34       4597       4096       -1       1093       9992       -1       14448       1539         All       2039       22694       22696       -34       5526       525       -1       10517       1016       -2       1609       1069         All       203       22694       22696       -34       551       576       -1       1017       1016       -2       1609       1609         All       204       22694       22696       -34       551       570       -1       1134       11340       -2       1702       1702       1702         All       2046       22694       22696														-2
All       2023       202070       222055       -14       4302       4301       -1       9784       9785       -1       13176       11174         All       2034       22696       22695       -34       4714       4714       -1       9428       9427       -1       14143       14141         All       2036       22696       22695       -34       4414       4444       -1       9468       9427       -1       14143       14143         All       2037       22694       22690       -34       63134       63133       -1       10267       10266       -2       1503       13399         All       2039       22694       22690       -34       6354       5353       -1       10267       10266       -2       1633       14         All       2039       22694       22690       -34       6511       550       -1       1122       122       -2       1743       1740         All       2046       22694       22690       -34       6511       550       -1       11262       1123       -2       1743       1740         All       2046       22694       22690 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-2</td></t<>														-2
A11       2033       20960       20026       -14       4564       466       -1       9129       9127       -1       1362       1600         A11       2055       22698       22690       -34       4444       4443       -1       9688       9677       -1       14432       14130         A11       2055       22698       22690       -34       4464       4535       -1       10512       10511       -2       1569       1576         A11       203       22694       22660       -34       5555       -1       10512       10516       -2       1653       1576         A11       204       22694       22660       -34       551       555       -1       10512       10516       -2       1633       16374         A11       204       22694       22660       -34       561       560       -1       11221       11231       -2       1633       16374         A11       2042       22694       22660       -34       561       560       -1       11221       11231       -2       1763       1789         A11       2044       22694       22660       -34       5613 </td <td></td> <td>-2</td>														-2
All       2294       22969       22969       -34       4714       4714       -1       9429       9427       -1       14142       14141         All       2056       22994       22660       -34       4997       4966       -1       1993       9922       -1       14149       11497         All       2036       22694       22660       -34       6135       1255       -1       10512       10511       -2       1576       1576         All       2037       22694       22660       -34       6255       -1       1052       10511       -2       1576       1576         All       2040       22694       22660       -34       6571       550       -1       11341       11340       -2       1743       16620         All       2043       22694       22660       -34       6571       550       -1       11341       11340       -2       1743       17460         All       2043       22694       22660       -34       6514       559       -1       11341       11457       -2       1743       17460         All       2049       22694       22660       -34       <														-2
A11       2035       22694       22696      4       4844       4843      1       988       9687      1       14522       14530         A11       2037       22694       226960      4       5134       5133      1       10027       10264       -2       15401       15399         A11       2039       22694       226960      4       5134       5133      1       10021       10124       -2       16092       16092         A11       2039       22694       226960      4       5134       5130      1       10121       10120       -2       16092       16091         A11       2042       22694       226960      3       5611       5510       -1       11323       11230       -2       16633       16631         A11       2044       22694       226960       -3       5617       5707       -1       11628       11433       -2       1764       1740         A11       2046       22694       226960       -3       5872       -1       11628       11647       -2       1699       1699         A11       2046       22694       226960 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>4304</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-2</td></t<>						4304								-2
All       22664       226694       226690      4       4997       4996      1       9992       9992      1       14990       14987         All       2038       22694       226600      4       5256       5255      1       10121       10511      2       15769       15766         All       2040       22694       226600      4       5565      1       10012       10017       10016       -2       16376       16374         All       2040       22694       226960      4       5511       5670       -1       11022       11010       -2       16376       16374         All       2044       22694       226960      4       5611       5670       -1       11142       11403       -2       1767       16301         All       2044       22694       226960      4       5523       5522       -1       11463       11647       -2       17443       17400         All       2045       22694       226960       -4       5523       5522       -1       11645       11647       -2       17493       1740         All       2045       22694								-1						-2
nil       2037       226994       226960       -34       5334       5133       -1       10527       10565       -2       1370       1576         All       2038       226994       226960       -34       5564       5563       -1       10512       10511       -2       16032       16637         All       2040       226994       226960       -34       5543       5563       -1       10927       10916       -2       16633       16637         All       2044       226944       226960       -34       5541       5560       -1       11922       11930       -2       16233       16637         All       2044       22694       226960       -34       5747       5746       -1       11928       11627       -2       1743       1740         All       2046       22694       226960       -34       5733       592       -1       11946       11444       -2       1769       17767         All       2046       22694       226960       -34       5663       5660       -1       12096       11996       -2       1769       1797         All       2046       22694 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-2</td></td<>														-2
xl1       2038       226994       226960       -34       5356       5255       -1       10512       10111       -2       1799       15766         Al1       2040       226994       226660       -34       5459       5458       -1       10178       10726       -2       1663       1663         Al1       2042       226994       226660       -34       5511       5610       -1       11222       11221       -2       16633       16633         Al1       2042       226994       22660       -34       5511       5610       -1       11242       11221       -2       1623       16633         Al1       2044       22694       22660       -34       5511       5764       -1       11695       11647       -2       1742       17434         Al1       2047       22694       22660       -34       5623       5922       -1       11846       11844       -2       1799       1797         Al1       2059       22694       22660       -34       6602       6027       -1       12056       12054       -2       1893       1833         Al1       2053       22694       2266														=2
All       2009       226994       226960       -34       5546       -1       10726       -2       16072       16072       16072         All       2041       226994       226960       -34       5541       5540       -1       11022       11202       1221       -2       16623       16623         All       2042       22694       226960       -34       5541       5500       -1       11202       11214       -2       16733       16633       16631         All       2044       22694       22660       -34       5513       5670       -1       11341       11444       -2       17743       17749         All       2046       22694       22660       -34       5933       5962       -1       11468       11444       -2       17743       17749         All       2046       22694       22660       -34       6028       6027       -1       11026       11034       -2       18333       1633         All       205       22694       22660       -34       6028       6027       -1       1205       1204       -2       18373       10394         All       2053       2														-2
All       2040       226994       226960       -34       5459       -4       10097       10916       -2       16675       16675         All       2041       226994       22660       -34       5511       5510       -1       11222       11231       -2       16633       16633         All       2043       226994       22660       -34       5511       5510       -1       11345       11403       -2       17722       17710         All       2045       22694       22660       -34       5573       -1       11485       11493       -2       17743       17440         All       2046       22694       22660       -34       5973       5922       -1       11466       11944       -2       17793       17745         All       2046       22694       22660       -34       6028       6027       -1       1200       11928       -2       17999       1797         All       205       22694       22660       -34       6028       6027       -1       1205       1216       -2       1823       1834         All       205       22694       22660       -34       6012 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5363</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-2</td>							5363							-2
All       2041       22694       22696       -34       551       550       -1       11022       11080       -2       16633       16620         All       2043       22694       226960       -34       5611       5600       -1       11341       11340       -2       1702       1702         All       2044       22694       226960       -34       571       577       -1       1142       11627       -2       1743       1740         All       2046       22694       226960       -34       5931       5922       -1       11846       11844       -2       17769       17767         All       2046       22694       22660       -34       6032       592       -1       11866       11844       -2       17769       17767         All       2051       22694       22660       -34       6032       6032       -1       12056       12054       -2       1803       18031         All       2053       22694       22660       -34       6019       6038       -1       12124       12259       -2       1803       18031         All       2053       22694       226600														-2
All       2020       226994       22690       -34       561       560       -1       11221       11221       -2       1633       1683         All       2043       22694       22690       -34       571       570       -1       11495       11493       -2       1724       1724       1724         All       2045       22694       22690       -34       5814       5813       -1       11495       11746       11744       -2       1769       1766         All       2047       22694       22690       -34       5953       5942       -1       11000       1198       -2       1799       1797         All       2049       22694       22690       -34       6003       607       -1       1205       12034       -2       1803       1601         All       2051       22694       22690       -34       6003       607       -1       1216       12054       -2       1803       1801         All       2052       22694       22690       -34       601       6008       -1       1213       1215       2       1803       1803         All       2052       22694 <td></td> <td>-2</td>														-2
All       2264       22660       -34       571       570       -1       11341       11340       -2       1702       1702         All       2044       22669       226690       -34       5747       5746       -1       1162       11627       -2       1742       1722         All       2046       226690       -34       5873       5872       -1       1164       11744       -2       1769       1767         All       2048       22690       -34       5965       5964       -1       1180       1128       -2       1799       17767         All       2049       22690       -34       6029       6027       -1       12005       11998       -2       1993       1997         All       2052       22690       -34       6029       6027       -1       12195       -2       1842       1823          All       2052       22690       -34       6029       608       -1       1219       1222       12142       1242       1223         All       2052       22694       226660       -34       6019       618       -1       12193       12214       2 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-2</td></td<>														-2
All       22649       226960	A11	2043	226994		- 3.4	5671	5670	-1	11341	11340		17012	17010	-3
All       2269       22694       22696       34       5873       5872       -1       11746       11747       -2       17479       17479         All       2047       226994       226900       -34       5923       5923       -1       11846       11844       -2       17769       17769         All       2048       226994       22690       -34       6000       5993       -1       11930       11928       -2       17895       17893         All       2050       226994       22690       -34       6002       6027       -1       1205       12046       -2       18043       18041         All       2051       226994       22690       -34       6001       6000       -1       1205       12046       -2       18242       1843         All       2055       226994       226900       -34       6019       6119       -1       1224       1222       -2       1833       1834         All       2055       226994       226960       -34       6019       6118       -1       12213       12214       -2       1835       1834         All       2055       226994       22														-3
All       2266       22660	A11	2045	226994	226960	-34		5813	-1	11628	11627	-2	17443	17440	- 3
All       2049       22694       226960       -34       565       5999       -1       11000       11928       -2       17995       17993         All       2059       22694       226960       -34       6023       6027       -1       12005       12054       -2       18083       18091         All       2051       22694       226960       -34       6049       6040       -1       12046       12054       -2       18147       1814         All       2053       22694       226860       -34       6049       6040       -1       12141       12159       -2       18247       1824         All       2053       22694       226860       -34       6019       6118       -1       12223       1222       -2       1835       1834         All       2055       22694       22660       -34       6115       6114       -1       12213       12212       -2       1835       1834         All       2055       22694       22660       -34       6016       6007       -1       12125       1217       -2       1835       1816         All       2055       226994       226960<	A11		226994		-34				11746					- 3
All       2269       22696       22696       -34       6000       6007       -1       12000       11998       -2       17999       17997         All       2050       226964       226960       -34       6049       6007       -1       1205       12054       -2       18147       18144         All       2052       226964       226960       -34       6081       6080       -1       12161       12155       -2       18294       18294         All       2055       22694       226960       -34       6011       6111       -1       12202       -2       18357       18354         All       2055       22694       226960       -34       6115       6118       -1       12203       12228       -2       18357       18354         All       2055       22694       226960       -34       6105       6106       -1       12213       12213       -2       1835       1834         All       2055       22694       226960       -34       6061       6060       -1       1215       12173       -2       1835       1846         All       2061       22694       226960 <td< td=""><td>All</td><td>2047</td><td>226994</td><td>226960</td><td>-34</td><td>5923</td><td>5922</td><td>-1</td><td>11846</td><td>11844</td><td>-2</td><td>17769</td><td>17767</td><td>-3</td></td<>	All	2047	226994	226960	-34	5923	5922	-1	11846	11844	-2	17769	17767	-3
All       250       22690       22690       -34       6028       6028       -1       1208       12094       -2       18083       18081         All       2051       226904       226900       -34       6049       6048       -1       1208       12095       -2       18242       18232         All       2053       226904       226900       -34       6099       6098       -1       1218       12125       -2       18232       18333         All       2055       226904       226900       -34       6119       6118       -1       12232       12226       -2       18335       18333         All       2055       226904       226900       -34       6115       6114       -1       1223       12217       -2       18335       18342         All       2055       226904       226900       -34       60607       -1       12123       12217       -2       18263       18269         All       2055       226904       226900       -34       6061       60607       -1       12123       12173       -2       18263       18269         All       2056       226904       226906	All	2048	226994	226960	-34	5965	5964	-1	11930	11928	-2	17895	17893	-3
All       250       22690       22690       -34       6028       6028       -1       1208       12094       -2       18083       18081         All       2051       226904       226900       -34       6049       6048       -1       1208       12095       -2       18242       18232         All       2053       226904       226900       -34       6099       6098       -1       1218       12125       -2       18232       18333         All       2055       226904       226900       -34       6119       6118       -1       12232       12226       -2       18335       18333         All       2055       226904       226900       -34       6115       6114       -1       1223       12217       -2       18335       18342         All       2055       226904       226900       -34       60607       -1       12123       12217       -2       18263       18269         All       2055       226904       226900       -34       6061       60607       -1       12123       12173       -2       18263       18269         All       2056       226904       226906	All	2049	226994	226960	-34	6000	5999	-1	12000	11998	-2	17999	17997	-3
All       255       22694       226960       -34       6049       6080       -1       12081       12295       -2       18147       18147         All       2052       226904       226900       -34       6099       6080       -1       12181       12195       -2       18297       18294         All       2053       226904       226900       -34       6112       6111       -1       12224       12223       -2       18336       18334         All       2055       226904       226900       -34       6115       6114       -1       1223       12212       -2       18357       18354         All       2055       226904       226900       -34       6015       6116       -1       1223       12211       -2       18353       18160         All       2055       226904       226900       -34       6061       6067       -1       12152       12123       -2       1803       18100         All       2060       226904       226900       -34       5089       5918       -1       11076       12056       -2       17054       1414         All       2062       226994							6027					18083		-3
nll       2053       22694       226960       -34       6099       -1       1198       12196       -2       18297       18244         All       2055       22694       226960       -34       6119       6111       -1       12228       12236       -2       18397       18234         All       2055       22694       226960       -34       6115       6114       -1       12228       12236       -2       18357       18354         All       2055       22694       226960       -34       6115       6114       -1       12213       12211       -2       18320       18317         All       2055       22694       226960       -34       6061       6060       -1       12125       1210       -2       18183       18160         All       2056       226994       226960       -34       6061       6060       -1       12125       12100       -2       18183       18160         All       2061       226994       226960       -34       5098       5988       -1       11878       11976       -2       19764       1976         All       2063       226994       226960		2051			-34	6049	6048	-1	12098	12096		18147	18144	-3
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All       2060       22690       22690       -34       6028       5988       -1       11076       12054       -2       18084       18081         All       2061       226904       226900       -34       5989       5988       -1       11978       11976       -2       17769       17754         All       2063       226904       226900       -34       5919       5847       -1       11636       11636       -2       17753       17754         All       2063       226904       226900       -34       5847       -1       11635       11629       -2       17294       17294         All       2065       226904       226900       -34       5879       5678       -1       11137       11356       -2       17036       1704         All       2065       226904       226900       -34       5879       5678       -1       11017       11056       -2       16137       1613         All       2067       226904       226900       -34       5880       5481       -1       10971       10079       16139       16137         All       2069       226904       226906       -34 <td></td> <td>-3</td>														-3
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All       264       22694       226960       -34       5765       5765       -1       11511       11529       -2       17296       17294         All       2065       226994       226960       -34       5679       5678       -1       11357       11356       -2       17296       17294         All       2066       226994       226960       -34       5582       5581       -1       10191       10165       -2       16477       16455         All       2067       226994       226960       -34       5802       5379       -1       10971       10750       -2       16437       16455         All       2068       226994       226960       -34       5820       5379       -1       10971       10540       -2       15812       15809         All       2069       226994       226960       -34       5516       516       -1       10313       10511       -2       15465         All       2070       226994       226960       -34       5039       5176       -1       10313       10017       -1       14177         All       2072       226994       226960       -34														-3
All       2064       226904       226906       -34       5765       -5765       -1       11513       11529       -2       17296       17294         All       2065       226904       226906       -34       5679       5678       -1       111357       11356       -2       17296       17294         All       2065       226904       226906       -34       5582       5678       -1       111357       11356       -2       16747       16744         All       2067       226904       226906       -34       5882       5485       -1       10971       10970       -2       16457       1645         All       2069       226904       226906       -34       5380       5379       -1       10971       10970       -2       15413       16137         All       2070       226904       226906       -34       5350       5039       -1       10079       10077       1       15168       5156         All       2071       226904       226906       -34       4004       4806       -1       9049       9447       -1       14747       14741         All       2073       226994											-2			-3
All       2065       226994       226960       -34       5679       578       -1       11157       11156       -2       17036       17034         All       2066       226994       226900       -34       5581       -1       111164       11165       -2       16437       16455         All       2066       226994       226900       -34       5581       -1       10971       10050       -2       16457       16455         All       2068       226904       226900       -34       5380       5379       -1       10541       10540       -2       16457       16455         All       2069       226904       226900       -34       5379       5156       -1       10313       10311       -2       15469       15467         All       2070       226994       226960       -34       5039       5039       -1       10033       10311       -2       15469       14714         All       2073       226994       226960       -34       4924       -1       9649       9647       -1       14703       14771         All       2073       226994       226960       -34       4806 <td></td> <td>-2</td> <td></td> <td></td> <td>-3</td>											-2			-3
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All       2068       226994       226960       -34       5380       5379       -1       1070       10758       -2       16139       16137         All       2069       226994       226960       -34       5271       5270       -1       10541       10500       -2       15812       15809         All       2070       226994       226960       -34       5156       5156       -1       10031       10011       -2       15469       15467         All       2070       226994       226960       -34       5039       -1       10079       10077       -1       15118       15116         All       2072       226994       226960       -34       4924       4924       -1       9849       9847       -1       14473       1477         All       2072       226994       226960       -34       4924       4924       -1       9849       9841       -1       14473       1477         All       2072       226994       226960       -34       4806       -1       9613       9611       -1       14419       14417         Car       total       15261423       -2283       357265														-2
All       2069       226964       226960       -34       5271       5270       -1       10541       10540       -2       15812       15809         All       2070       226994       226960       -34       55165       5166       -1       10313       10311       -2       15812       15809         All       2071       226994       226960       -34       5039       5039       -1       10079       10077       -1       15118       15116         All       2072       226994       226960       -34       4924       -1       9849       9847       -1       14773       14771         All       2073       226994       226960       -34       4806       4806       -1       9813       9611       -1       1449       14471         All       2073       226994       226960       -34       4806       4806       -1       9875       9973       -1       14062       14060         Car       Total       1526127       1526132       357262       357212       -53       714531       714424       -10       101795       17462         Lew Preight       Total       0       0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-2</td></td<>														-2
All       2070       226994       226960       -34       5156       -1       10313       1011       -2       15469       15467         All       2071       226994       226960       -34       5039       -1       10079       10077       -1       15118       15116         All       2072       226994       226960       -34       4924       4924       -1       9849       9847       -1       14773       14771         All       2073       226994       226960       -34       4806       -1       9613       9611       -1       14419       14417         Car       70tal       15261843       -2283       35725       357212       -53       714531       714424       -107       1071796       1071635       -1         LGV Freight       Total       0<														-2
All       2071       226994       226960       -34       5039       -1       10079       10077       -1       15118       15116         All       2072       226994       226960       -34       4924       4924       -1       9849       9847       -1       14173       14771         All       2073       226994       226960       -34       4806       4806       -1       9849       9847       -1       14473       14471         All       2073       226994       226960       -34       4806       4806       -1       9375       9373       -1       14062       14060         Car       rotal       1526127       15261843       -2283       357265       357212       -53       714531       714424       -10       101795       1071795       1071795       107195       0       0       0       0       <														-2
All       2072       226994       226960       -34       4924       4924       -1       9849       9847       -1       14773       14771         All       2073       226994       226960       -34       4806       4806       -1       9613       9611       -1       14419       14477         All       2074       226994       226960       -34       4806       4806       -1       9613       9611       -1       14419       1447         Car       Total       15264127       15261843       -2283       357265       357212       -53       714531       714424       -107       1071796       1071635       -1         LGV Freight       Total       0       0       0       0       0       0       0       0       0														-2
All         2073         225994         226960         -34         4806         4806         -1         9613         9611         -1         14419         14417           All         2074         226994         226960         -34         4807         4687         -1         9375         9373         -1         14062         14060           Car         Total         15261427         15261843         -2283         357265         357212         -53         714531         714424         -107         107196         1071655         -1           LGW Freight         Total         0														-2
All         2074         226994         226960         -34         4687         4687         -1         9375         9373         -1         14062         14060           Car         Total         15264127         15261843         -2283         357265         357212         -53         714531         714424         -107         1071796         1071635         -1           LGV Freight         Total         0														-2
car         Total         15264127         15261843         -2283         357265         357212         -53         714531         714424         -107         1071796         1071635         -1           LGV Freight         Total         0														-2
LGV Freight         Total         0														-2
OGV1 Total 0 0 0 0 0 0 0 0 0 0 0 0 0														-160
														0
All Total 15264127 15261843 -2283 357265 357212 -53 714531 714424 -107 1071796 1071635 -1														0
	All	Total	15264127	15261843	-2283	357265	357212	-53	714531	714424	-107	1071796	1071635	-160



CO2_EMISSION	IS TRADED												
Submode	- Year	DM	Emissions (tonn DS	es) Increase	DM	cost (£000s, 1 DS	.ow) Increase	DM	cost (£000s, DS	central) Increase	DM	cost (£000s, DS	high) Increase
Car	2014	78	78	0 Increase	1	1	1ncrease 0	1	1	Increase 0	DM 1	1	increase 0
Car	2024	3007	3007	0	79	79	0	79	79	0	79	79	0
LGV Freight LGV Freight	2014 2024	0	0	0	0	0	0	0	0	0	0	0	0
OGV1	2014	0	0	0	0	0	0	0	0	0	0	0	0
OGV1 All	2024 2014	0 78	0 78	0	0	0	0	0	0	0	0	0	0
All	2014	239	239	0	3	3	0	3	3	0	3	3	0
All	2016	342	342	0	5	5	0	5	5	0	5	5	0
All All	2017 2018	488 697	488	0	8 12	8	0	8	8	0	8 12	8	0
All	2018	994	994	0	12	12	0	12	12	0	12	12	0
All	2020	1416	1416	0	26	26	0	26	26	0	26	26	0
All All	2021 2022	1711 2066	1711 2066	0	33 45	33 45	0	33 45	33 45	0	33 45	33 45	0
All	2023	2493	2493	0	60	60	0	60	60	0	60	60	ů.
All	2024	3007	3007	0	79	79	0	79	79	0	79	79	0
All All	2025 2026	3622 3904	3622 3904	0	101 116	101	0	101 116	101 116	0	101 116	101 116	0
All	2027	4189	4189	0	131	131	0	131	131	0	131	131	ő
All	2028	4469	4469	0	146	146	0	146	146	0	146	146	0
All All	2029 2030	4738 4988	4737 4987	0	161 175	160 175	0	161 175	160 175	0	161 175	160 175	0
All	2031	4546	4546	0	164	164	0	164	164	0	164	164	0
A11 A11	2032 2033	4107 3672	4107 3671	0	156 147	156 147	0	156 147	156 147	0	156 147	156 147	0
All	2033	3072	3237	0	135	135	0	135	135	0	135	135	0
All	2035	2805	2804	0	121	121	0	121	121	0	121	121	0
All All	2036 2037	2382 1958	2382 1958	0	106 89	106	0	106 89	106 89	0	106 89	106 89	0
A11 A11	2037	1958	1958	0	72	72	0	72	72	0	72	72	0
All	2039	1112	1112	0	53	53	0	53	53	0	53	53	0
All All	2040 2041	688 662	688 661	0	33 33	33	0	33 33	33 33	0	33 33	33 33	0
All	2042	635	635	0	32	32	0	32	32	0	32	32	0
All	2043	609	609	0	31	31	0	31	31	0	31	31	0
All All	2044 2045	582 558	582 558	0	30 29	30 29	0	30 29	30 29	0	30 29	30 29	0
All	2046	531	531	0	28	28	0	28	28	0	28	28	0
All	2047	505	505	0	27	27	0	27	27	0	27	27	0
All All	2048 2049	479 452	479 452	0	25 24	25 24	0	25 24	25 24	0	25 24	25 24	0
All	2050	426	426	0	23	23	0	23	23	0	23	23	ő
All	2051	426	426	0	23	23	0	23	23	0	23	23	0
All All	2052 2053	426 426	426 426	0	23 23	23 23	0	23 23	23	0	23 23	23 23	0
All	2054	426	426	0	23	23	0	23	23	0	2.3	23	0
All All	2055 2056	426 426	426 426	0	23 23	23	0	23 23	23	0	23 23	23	0
All	2056	426	426	0	23	23	0	23	23	0	23	23	0
All	2058	426	426	0	23	23	0	23	23	0	23	23	0
All All	2059 2060	426 426	426 426	0	23 23	23	0	23 23	23	0	23 23	23	0
All	2060	426	426	0	23	23	0	23	23	0	23	23	0
All	2062	426	426	0	22	22	0	22	22	0	22	22	0
All All	2063 2064	426 426	426 426	0	22 22	22 22	0	22 22	22 22	0	22 22	22 22	0
All	2065	426	426	0	22	22	0	22	22	0	22	22	ő
All	2066	426	426	0	21	21	0	21	21	0	21	21	0
All All	2067 2068	426 426	426 426	0	21 20	21 20	0	21 20	21 20	0	21 20	21 20	0
All	2069	426	426	0	20	20	0	20	20	0	20	20	0
All	2070	426	426	0	20	20	0	20	20	0	20	20	0
All All	2071 2072	426 426	426 426	0	19 19	19	0	19 19	19 19	0	19 19	19 19	0
All	2073	426	426	0	18	18	0	18	18	0	18	18	0
All	2074	426 81143	426 81136	0	18 2992	18 2992	0	18 2992	18 2992	0	18 2992	18 2992	0
Car LGV Freight	Total Total	81143	81136	-6	2992	2992	0	2992	2992	0	2992	2992	0
OGV1	Total	0	0	0	0	0	0	0	0	0	0	0	0
All	Total	81143	81136	- 6	2992	2992	0	2992	2992	0	2992	2992	0
CO2_EMISSION	IS BY TIME F	ERIOD UNTRA	DED										
			Emissions (tonn			cost (£000s, 1			cost (£000s,			cost (£000s,	high)
Submode AM peak	Year 2014	DM 201639	DS 201663	Increase 24	DM 4989	DS 4990	Increase 1	DM 9979	DS 9980	Increase 1	DM 14968	DS 14970	Increase 2
AM peak	2024	140597	140578	-19	2874	2874	0	5748	5747	-1	8622	8621	-1
PM peak	2014	202106	202017	-89	5001	4999	-2	10002	9998	- 4	15003	14996	-7
PM peak Inter-peak	2024 2014	141035 0	141012	-23	2883 0	2883	0	5766 0	5765 0	-1	8649 0	8648 0	-1
Inter-peak	2024	ů.	0	ů.	0	0	0	0	ō	0	0	0	ů.
Off-peak	2014	0	0	0	0	0	0	0	0	0	0	0	0
Off-peak Weekend	2024 2014	0	0	0	0	0	0	0	0	0	0	0	0
Weekend	2024	0	0	0	0	0	0	0	0	0	0	0	0
AM peak	Total Total	7620592 7643534	7619821 7642022	-771	178364 178901	178346 178866	-18	356728 357802	356692 357731	-36	535092 536703	535038 536597	-54
PM peak Inter-peak	Total Total	7643534	7642022	-1513	178901	178866	-35	357802	357731	-71	536703	536597	-106
Off-peak	Total	0	0	0	0	0	0	0	0	0	0	0	0
Weekend	Total	0	0	0	0	0	0	0	0	0	0	0	0
CO2_EMISSION	S_BY_TIME_F	ERIOD_TRADE	D										
			Emissions (tonn		-	cost (£000s, 1	.ow) Increase	-	cost (£000s,		-	cost (£000s,	high) Increase
Submode AM peak	Year 2014	DM 39	DS 39	Increase 0	DM 1	DS 1	Increase 0	DM 1	DS 1	Increase 0	DM 1	DS 1	Increase 0
AM peak	2024	1496	1496	0	39	39	0	39	39	0	39	39	0
PM peak	2014	39	39	0	1	1	0	1	1	0	1	1	0
PM peak Inter-peak	2024 2014	1511 0	1511	0	39 0	39 0	0	39 0	39 0	0	39 0	39 0	0
Inter-peak	2024	0	0	0	0	0	0	0	0	0	0	0	0
Off-peak Off-peak	2014 2024	0	0	0	0	0	0	0	0	0	0	0	0
Off-peak Weekend	2024 2014	0	0	0	0	0	0	0	0	0	0	0	0
Weekend	2024	0	0	0	0	0	0	0	0	0	0	0	0
AM peak PM peak	Total Total	40360 40783	40362 40774	2	1488 1504	1488 1503	0	1488 1504	1488 1503	0	1488 1504	1488 1503	0
PM peak Inter-peak	Total	40783	40774	-8	1504	1503	0	1504	1503	0	1504	1503	0
Off-peak	Total	0	0	0	0	0	0	0	0	0	0	0	0
	mate 2												
Weekend	Total	0	0	0	0	0	0	0	0	0	0	0	0



User benefits Mode	and change			Upare fonce			
	Year	User	User_Charges	Vehicle_Ope:	rating_Cost	Operator_Rev	Indirec
		Time	PT_fares_(pri	Fuel	Non_fuel	PT_fares_(pri	Taxe
oad oad	2014 2015	613 609	0	31 28	27	0	-1
oad oad	2015	605	0	28	25	0	-1
oad	2010	600	0	24	23	0	-1
oad	2018	592	0	19	20	0	-1
oad	2019	584	0	17	18	0	-
oad	2020	576	0	15	17	0	-
oad	2021	569	0	13	15	0	-
oad	2022	562	0	11	14	0	-
.oad	2023	555 548	0	10	13	0	
.oad	2024	538	0	8	12	0	_
oad	2025	527	0	7	11	0	_
oad	2027	518	0	7	10	ů.	-
oad	2028	508	0	7	10	0	-
oad	2029	499	0	6	10	0	-
oad	2030	490	0	6	9	0	-
oad	2031	481	0	6	9	0	-
oad	2032	473	0	5	9	0	-
oad	2033	465	0	5	9	0	-
oad	2034	457 450	0	5	8	0	-
oad.	2035	430	0	5	8	0	
oad	2030	436	ő	4	7	0	-
oad	2038	429	0	4	7	0	-
oad	2039	423	0	4	7	0	-
load	2040	417	0	4	7	0	-
oad	2041	411	0	4	6	0	-
oad	2042	405	0	4	6	0	-
oad	2043	399	0	4	6	0	-
oad	2044	395	0	4	6	0	-
oad	2045	390	0	3	6	0	-
.oad	2046	385 380	0	3	6	0	
.oad .oad	2047 2048	380 375	0	3	5	0	_
load	2048	375	0	3	5	0	_
load	2050	365	0	3	5	0	_
oad	2051	360	0	3	5	ő	-
load	2052	356	0	3	5	0	-
oad	2053	351	0	3	5	0	-
oad	2054	346	0	3	4	0	-
oad	2055	342	0	3	4	0	-
oad	2056	337	0	3	4	0	-
.oad .oad	2057 2058	332 328	0	3	4	0	
oad oad	2058	328	0	2	4	0	_
oad	2060	319	0	2	4	ů.	-
oad	2061	315	0	2	4	0	-
load	2062	311	0	2	3	0	-
oad	2063	308	0	2	3	0	-
oad	2064	304	0	2	3	0	-
oad	2065	300	0	2	3	0	-
oad	2066	296	0	2	3	0	-
.oad	2067 2068	292	0	2	3	0	
toad toad	2068	289	0	2	3	0	_
oad	2070	281	0	2	3	ů.	-
toad	2071	278	0	2	3	ů.	-
oad	2072	274	0	2	3	0	-
toad	2073	271	0	2	2	0	-
load	2074	268	0	2	2	0	-
toad	Total	25307	0	372	485	0	-18
UBMODE							
			ues by submode/				
ubmode	Year	User Time	User_Charges PT_fares_(pri	Vehicle_Ope Fuel	Non fuel	PT_fares_(pri	Indirec Taxe
ar	2014	388	0	51	39	0	-2
ar	2024	471	0	-2	-16	0	
GV Freight	2014	162	0	-24	-23	0	1
GV Freight	2024	22	0	13	21	0	-
GV1	2014	63	0	3	10	0	-
GV1	2024	55	0	- 4	7	0	
11	2014	613	0	31	27	0	-1
11	2024 Total	548	0	8	12 -289	0	-10
ar .GV Freight	Total Total	20883 1786	0	185	-289 516	0	-10
GV Freight GV1	Total	2638	0	-96	259	0	=13
11	Total	25307	0	372	485	0	-18
ERSON TYPES							
	and change	s in rever	ues by person ty	/pe, modelled y	ears and to	al. £000s.	
erson_type		User	User_Charges	Vehicle_Ope:	rating_Cost	Operator_Rev	Indirec
		Time	PT fares (pri	Fuel	Non fuel	PT fares (pri	Taxe
11	2014 2024	613 548	0	31	27	0	-1
1.1		548		8		0	-18
		25207		270			-18
	Total	25307	U	372	12 485	0	
11 URPOSE					485		
ll URPOSE ser benefits	and change	s in rever	ues by trip purp	oose, modelled :	485 years and to	otal. £000s.	
ll URPOSE ser benefits	and change	s in rever User	ues by trip purp User Charges	oose, modelled ; Vehicle_Ope:	485 years and to rating_Cost	otal. £000s. Operator_Rev	
ll URPOSE ser benefits urpose	and change Year	s in rever User Time	ues by trip purp User_Charges PT_fares_(pri	vose, modelled : Vehicle_Ope Fuel	485 years and to rating_Cost Non_fuel	otal. £000s. Operator_Rev PT_fares_(pri	Taxe
ll URPOSE Ser benefits urpose usiness	and change Year 2014	s in rever User Time 432	uues by trip purp User_Charges PT_fares_(pri 0	vose, modelled y Vehicle_Ope Fuel -12	485 years and to rating_Cost Non_fuel 3	otal. £000s. Operator_Rev PT_fares_(pri 0	Taxe
ll URPOSE ser benefits urpose usiness usiness	and change Year 2014 2024	s in rever User Time 432 298	ues by trip purp User_Charges PT_fares_(pri 0 0	oose, modelled y Vehicle_Ope: Fuel =12 8	485 years and to rating_Cost Non_fuel 3 29	otal. £000s. Operator_Rev PT_fares_(pri 0 0	Taxe
ll URPOSE ser benefits urpose usiness usiness ommuting	and change Year 2014	s in rever User Time 432	uues by trip purp User_Charges PT_fares_(pri 0	vose, modelled y Vehicle_Ope Fuel -12	485 years and to rating_Cost Non_fuel 3	otal. £000s. Operator_Rev PT_fares_(pri 0	Taxe - -1
ll URPOSE ser benefits urpose usiness usiness ommuting ommuting	and change Year 2014 2024 2014	s in rever User Time 432 298 146 161 25	uues by trip purp User_Charges PT_fares_(pri 0 0 0 0	vehicle_oper Fuel =12 8 34	485 years and to rating_Cost Non_fuel 3 29 19	otal. £000s. Operator_Rev PT_fares_(pri 0 0 0	Taxe -1 -1
ll URPOSE ser benefits urpose usiness usiness commuting commuting ther	and change Year 2014 2024 2014 2024 2014	s in rever User Time 432 298 146 161 25	uues by trip purp User_Charges PT_fares_(pri 0 0 0 0	vehicle_ope Fuel -12 8 34 17 9 -17	485 years and to nating_Cost Non_fuel 3 29 19 7 5 -24	otal. £000s. Operator_Rev PT_fares_(pri 0 0 0 0 0 0 0 0 0	Taxe -1 -1
ll URPOSE ser benefits urpose usiness usiness commuting commuting ther	and change Year 2014 2024 2014 2024 2014	s in rever User Time 432 298 146 161 35 89 14728	ues by trip pur User_Charges PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0	vehicle_Oper Fuel -12 8 34 17 9 -17 181	485 years and tr nating_Cost Non_fuel 3 29 19 7 5 -24 899	otal. £000s. Operator_Rev PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0	Indirec Taxe -1 - -8
11 URPOSE ser benefits urpose usiness ommuting ommuting ther ther usiness ommuting	and change Year 2014 2024 2014 2024 2014 2024 2014 2024 Total Total	s in rever User 432 298 146 161 35 89 14728 7005	ues by trip pur User_Charges PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	vehicle_oper Fuel -12 8 34 17 9 -17 181 648	485 years and to rating_Cost Non_fuel 3 29 19 7 7 5 -24 899 296	btal. £000s. Operator_Rev PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxe -1 -1 -8 -8 -31
ll URPOSE ser benefits urpose usiness usiness ommuting ommuting ther ther usiness ommuting	and change Year 2014 2024 2014 2024 2014	s in rever User Time 432 298 146 161 35 89 14728	ues by trip pur User_Charges PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	vehicle_Oper Fuel -12 8 34 17 9 -17 181	485 years and tr nating_Cost Non_fuel 3 29 19 7 5 -24 899	otal. £000s. Operator_Rev PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxe -1 -1
ll URPOSE ser benefits urpose usiness ommuting ommuting ther usiness ommuting ther ther	and change Year 2014 2024 2014 2024 2014 2024 2014 2024 Total Total	s in rever User 432 298 146 161 35 89 14728 7005	ues by trip pur User_Charges PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	vehicle_oper Fuel -12 8 34 17 9 -17 181 648	485 years and to rating_Cost Non_fuel 3 29 19 7 7 5 -24 899 296	btal. £000s. Operator_Rev PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxe -1 -1 -8 -8 -31
<pre>ll URPOSE ser benefits urpose usiness ommuting ommuting ther ther usiness ommuting ther ERIOD</pre>	and change Year 2014 2024 2014 2024 2014 2024 2014 2024 Total Total	s in rever User Time 432 2988 146 161 355 89 14728 7005 3574	uses by trip pur User_Charges PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0 0	vehicle ope Fuel -12 8 34 17 9 -17 181 648 -457	485 years and to nating_Cost Non_fuel 3 29 19 7 7 5 -24 89 296 -710	otal. f000s. Operator_Rev PT_fares_[pri 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxe -1 -1 -8 -8 -31
<pre>ll URPOSE ser benefits urpose usiness oommuting ther ther ther ERIOD ser benefits</pre>	and change Year 2014 2024 2024 2024 2024 2024 Total Total Total and change	s in rever User Time 432 298 146 161 35 89 14728 705 3574 s in rever	uses by trip purp User_Charges PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	vehicle_ope Fuel -12 8 34 17 9 -17 181 648 -457 iod, modelled y	485 years and to non_fuel 3 29 19 7 5 -24 899 296 -710 ears and to	otal. f000s. Operator_Rev PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxe     
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<pre>ll URPOSE ser benefits urpose usiness ommuting ommuting ther ther ther ther ERIOD ser benefits eriod M peak</pre>	and change Year 2014 2024 2014 2024 2014 2024 Total Total Total Total and change Year	s in rever User 432 298 146 161 35 899 14728 7005 3574 s in rever User Time 405	ues by trip pur User_Charges PT_fares_(pr) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<pre>cose, modelled vehicle_ope Fuel</pre>	485 vears and tr rating_cost Non_fuel 3 29 19 7 5 -24 899 296 -710 vears and to rating_Cost Non_fuel -14	ctal. f000s. Operator_Rev PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxe 1 1 8 31 21 Indirec Taxe 1
<pre>ll URPOSE ser benefits urpose usiness usiness ommuting ther ther ther ERIOD ser benefits eriod M peak</pre>	and change Year 2014 2014 2024 2024 2024 2024 Total Total Total Total and change Year 2014 2024	s in rever User Time 432 298 146 161 35 89 14728 7005 3574 s in rever User Time 405 437	ues by trip pur User_Charges PT_fares_(pr) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Dose, modelled Vehicle Ope Fuel 34 34 -17 181 648 -457 Vehicle Ope Fuel -22 1	485 years and tr rating_cost Non_fuel 3 29 7 7 5 -24 899 296 -710 899 296 -710 899 296 -710 897 296 -710 897 296 -710 897 296 -710 897 296 -710 897 296 -710 897 296 -710 897 296 -710 897 897 296 -710 897 897 296 -710 897 897 296 -710 897 897 -244 897 296 -710 897 897 -244 897 -710 807 -710 807 -710 807 -710 807 -710 807 -710 807 -710 807 -710 807 -710 807 -710 807 -710 807 -710 807 -710 807 -710 807 -710 807 -710 807 -710 807 -710 807 -710 807 807 -710 807 807 -710 807 807 807 807 807 807 807 807 807 80	rtal. £000s. Operator_Rev PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxe 1 1 31 -31 -31 -31 -31 -31 -31 -3
<pre>ll URPOSE ser benefits urpose usiness usiness commuting ommuting ther ther ther ERIOD ser benefits eriod M peak M peak M peak</pre>	and change Year 2014 2024 2024 2014 2024 2024 2024 2024	s in rever User 432 298 146 161 161 35 89 14728 705 3574 s in rever User Time 405 437 208	ues by trip pur User_Charges PT_fares_(pr) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cose, modelled Vehicle_Ope Fuel -12 8 34 17 9 -17 181 648 -457 Vehicle_Ope Fuel -22 1 53	485 vears and tr rating_cost Non_fuel 3 29 19 7 5 -24 899 296 -710 vears and to rating_Cost Non_fuel -14	ctal. f000s. Operator_Rev PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxe 1 1 1 2 8 31 1 21 Indirec Taxe 1 2 2
<pre>ll URPOSE ser benefits urpose usiness usiness oomwiing oomwiing ther ther ther ther ERIOD ser benefits M peak M peak M peak M peak</pre>	and change Year 2014 2024 2014 2024 2014 2024 2024 70tal Total Total Total 2024 Year 2014 2024 2024 2024	s in rever User Time 432 298 146 161 35 89 14728 7005 3574 s in rever User Time 405 437	ues by trip pur User_Charges PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Dose, modelled Vehicle Ope Fuel 34 34 -17 181 648 -457 Vehicle Ope Fuel -22 1	485 years and tr rating_cost Non_fuel 29 19 29 7 7 5 -24 899 296 -710 ************************************	ctal. f000s. Operator_Rev Pr_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxe   
<pre>ll URPOSE ser benefits urpose usiness usiness oomwiing oomwiing ther ther ther ther ERIOD ser benefits M peak M peak M peak M peak</pre>	and change Year 2014 2024 2014 2024 2014 2024 2024 70tal Total Total Total 2024 Year 2014 2024 2024 2024	s in rever User Time 432 298 146 161 35 89 14728 7005 3574 s in rever User User User 405 437 208 111	ues by trip purp User_Charges PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Dose, modelled Vehicle_Ope Fuel 34 17 17 181 648 -457 Vehicle_Ope Fuel -22 1 53 7	485 years and tr rating_cost Non_fuel 3 29 19 7 5 -24 899 266 -710 tears and to rating_cost Non_fuel 5 -24 41 5 41 7 7 7 19 29 20 20 20 20 20 20 20 20 20 20	rtal. £000s. Operator_Rev PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxe     
<pre>ll URPOSE ser benefits urpose usiness usiness oomwiing oomwiing ther ther ther ther ERIOD ser benefits M peak M peak M peak M peak</pre>	and change Year 2014 2024 2014 2024 2014 2024 2024 70tal Total Total Total 2024 Year 2014 2024 2024 2024	s in rever User Time 432 298 146 161 35 899 14728 7005 3574 s in rever Time 405 437 208 111 0	ues by trip pur User_Charges PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Dose, modelled Vehicle_Ope Fuel -12 8 34 17 9 -17 181 648 -457 vehicle_Ope Fuel -22 1 53 7 0	485 years and tr rating_cost Non_fuel 3 29 19 9 296 -74 899 296 -710 ears and tot rating_cost Non_fuel 0 4 1 7 -24 899 296 -710 -710 -141 899 296 -710	tal. f000s. Operator_Rev Pr_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxe 
<pre>ll URPOSE ser benefics urpose usiness ommuting ommuting ther ther ERIOD ser benefits eriod M peak M pe</pre>	and change Year 2014 2024 2024 2024 2024 2024 2024 2024	s in rever User Time 432 298 146 161 35 89 14728 7005 3574 s in rever User Time 405 437 2088 111 0 0	ues by trip purp User_Charges PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Dose, modelled Vehicle_Ope Fuel 34 17 9 -17 181 648 -457 iod, modelled y Vehicle_Ope Fuel 21 53 7 0 0	485 vears and t: rating_cost Non_fuel 29 19 7 5 -24 8999 296 -710 Non_fuel Non_fuel Non_fuel 7 41 7 0 0 0 0 0 0 0 0 0 0 0 0 0	tal. 6000s. Operator_Rev Pr_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxe      21 Indirec Taxe  2  2  
<pre>ll UKPOSE uKPOSE ser benefics urpose usiness usiness ommuting ommuting ther ther serioen ther ERIOD M peak ther-peak ther-peak tfr-peak tfr-peak</pre>	and change Year 2014 2024 2014 2024 2014 2024 2014 2024 2014 2024 202	s in rever User Time 432 2988 146 161 35 89 14728 7005 3574 s in rever User Time 405 437 208 111 0 0 0	ues by trip pur User_Charges PT_fares_(pi 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<pre>cose, modelled Vehicle_Ope Fuel 34 17 9 -17 181 648 -457 vehicle_Ope Fuel -22 1 53 7 0 0 0 0</pre>	485 years and tr ating_cost 3 3 9 9 9 9 9 2 96 -710 8 99 2 96 -710 8 99 2 96 -710 8 99 2 96 -710 8 99 2 96 -710 8 99 2 96 -710 8 99 2 96 -710 8 99 2 96 -714 8 99 8 99 8 99 8 99 8 99 8 99 8 99 8	tal. 6000s. Operator_Rev Pr_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxe -1 -2 -31 -31 21
<pre>ll URPOSE ser benefics urpose usiness usiness ommuting ommuting ommuting ther ther ERIOD ser benefits eriod M peak M peak M peak M peak M peak ther-peak ff-peak eff-peak</pre>	and change Year 2014 2024 2014 2024 2014 2024 2014 2024 2014 2024 202	s in rever User Time 432 298 146 161 35 89 14728 7055 3574 8 in rever User User 405 405 405 407 00 8 111 0 0 0 0	ues by trip purp User_Charges PT_fares_(pr) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Dose, modelled Vehicle_ope Fuel -12 -34 -17 -17 -181 648 -457 iod, modelled y Vehicle_ope Fuel -22 1 53 7 0 0 0 0	485 years and tr rating_cost Non_fuel 29 19 7 5 -24 899 296 -710 ears and to rating_cost Non_fuel 7 -14 -14 -1 0 0 0 0 0 0 0 0 0 0 0 0 -24 -24 -24 -29 -24 -29 -24 -29 -29 -24 -29 -24 -29 -24 -29 -24 -29 -24 -29 -24 -29 -24 -29 -24 -29 -24 -29 -21 -24 -29 -24 -29 -710 -14 -14 -14 -29 -710 -24 -24 -24 -24 -29 -710 -14 -14 -14 -14 -24 -29 -710 -14 -14 -14 -14 -14 -14 -14 -14	<pre>tral. f000s. Operator_Rev PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</pre>	Taxe - -1 -8 -31 21 Indirec Taxx -22 -2 -2
<pre>L1 UURPOSE iscr henefits urpose usiness usiness commuting commuting ther ther ther ERIOD M peak M peak</pre>	and change Year 2014 2024 2024 2024 2024 Total Total Total Total Total 2024 2024 2024 2024 2024 2024 2024 202	s in rever User Time 432 2988 146 161 1 35 89 14728 7005 3574 s in rever User Time 405 437 208 111 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ues by trip pur User_Charges PT_fares_(pr) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<pre>cose, modelled Vehicle_ope Fuel 34 17 9 -17 181 648 -457 vehicle_ope Fuel -22 1 53 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</pre>	485 years and tr non_fuel 000 000 000 000 000 000 000 000 000 0	tral. f000s. Operator_Rev PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxe
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<pre>L11 UURPOSE Sar banefics urpose usiness usiness commuting commuting ther ther Usiness commuting ther eriod M peak M</pre>	and change Year 2014 2024 2014 2024 2024 2024 2024 Total Total Total Total 2024 2024 2024 2024 2024 2024 2024 202	s in rever User Time 422 298 146 161 35 3574 s in rever User Time 405 405 407 208 111 0 0 0 0 0 0 0 0 0 0 0	ues by trip pur User_Charges PT_fares_(pi 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<pre>cose, modelled Vehicle_ope Fuel 34 17 9 -17 181 648 -457 vehicle_ope Fuel -22 1 53 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</pre>	485 years and tr reating_cost Non_fuel Non_fuel 00 00 00 00 00 00 00 00 00 0	tral. £000s. Operator_Rev PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxe  1 
All BURDOSE Ser Denefics Purpose Usiness Dommting Commting Commting Commting Commting Uther Business Commting Uther FERIOD Ster Period MM peak MM peak MM peak MM peak MM peak MM peak	and change Year 2014 2024 2014 2024 2024 2024 2024 Total Total Total Total 2024 2024 2024 2024 2024 2024 2024 202	s in rever User Time 432 298 161 355 3574 s in rever User Time 405 437 208 111 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ues by trip purp User_Charges PT_fares_(pr) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Dose, modelled Vehicle_Ope Fuel -12 -34 -17 -9 -17 -18 -457 -457 iod, modelled y Vehicle_Ope Fuel -22 1 -23 7 0 0 0 0 0 -80 -85 -85 -85 -85 -85 -85 -85 -85	485 years and tr Non_fuel 3 3 2 9 7 5 -24 899 296 -710 ************************************	tral. 1000s. Operator_Rev PT_fares_(pri 0 0 0 0 0 0 0 0 0 0 0 0 0	Ta - Indiz Ta



NON MONETISED	TIME BENEFITS	BY TIME SAVI	NG						
Time benefits	(thousands of	person hrs)	by size of t	ime saving	=2 to 0 mine	0 to 2 mine	2 to 5 mine	> 5 mins	
Car	Business		0	-5 to -2 mins 0	-13	19	1 1	0	
Car	Business	2024	0	0	-11	19	0	0	
Car Car	Business	Total 2014	- 3	-3	-670	1178	28	1	
Car	Business Commuting Commuting	2024	ō	-6	-61	94	6	2	
			-35	$egin{array}{ccccc} & & & & & & & & & & & & & & & & &$	= 3822	5770	363	137	
		2024	õ	0	-35	51	5	1	
Car	Other	Total	-49	-91	-2128	3140	293	43	
LGV Freight LGV Freight	Business Business Business	2014 2024	-1	-2	-13	21	6	1	
LGV Freight	Business	Total	-21	-248	-810	1175	66	38	
LGV Freight	Commuting	2014	0	0	0	0	0	0	
LGV Freight LGV Freight	Commuting	Total	0	0	0	0	0	0	
LGV Freight	Other	2014	0	0	0	0	0	0	
LGV Freight LGV Freight	Other	2024 Total	0	0	0	0	0	0	
OGV1	Business	2014	ő	0	-5	10	0	0	
		2024	0	0	- 6	10	1	0	
OGV1 OGV1	Business	Total 2014	-4	-5	-338	597	65	20	
OGV1	Commuting Commuting	2024	0	0	0	0	0	0	
OGV1 OGV1	Commuting	Total	0	0	0	0	0	0	
	Other Other	2024	0	0	0				
DGV1	Other	Total	0	0	0	0	0	0	
MONETISED TIM	E BENEFITS BY	TIME SAVING							
			ving						
Vehicle type	Purpose	Year	< -5 mins	-5 to -2 mins	-2 to 0 mins	0 to 2 mins	2 to 5 mins	> 5 mins	
Car Car	Business Business	2014 2024	0	-3	-363	556	17	0	
Car	Business	Total	0	-1	-209	22945	556	13	
Car	Commuting	2014	-19	-38	-451	607	35	11	
Car Car	Commuting	ZUZ4 Total	-1 -155	-5 to -2 mins -3 -1 -65 -38 -31 -192 -76 -421 -18 -433 -1908 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-291 -13628	445 20424	28 1279	11 477	
lar	Other	2014	-27	-76	-168	278	15	13	
Car Car	Other	2024 Totol	-2	-1	-148	215	21	2	
Car LGV Freight	ocner Business	2014	-196	-421 -18	-6518	9680 245	878 75	151	
LGV Freight	Business Business	2024	- 3	-43	-133	191	6	6	
LGV Freight	Business Business	Total	-169	-1908	-6379	9306	628	309	
LGV Freight LGV Freight	Commuting Commuting	2014	0	0	0	0	0	0	
LGV Freight	Commuting Commuting	Total	0	0	0	0	0	0	
LGV Freight	Other	2014	0	0	0	0	0	0	
LGV Freight LGV Freight	Other	Total	0	0	0	0	0	0	
DGV1	Business	2014	0	-2	-57	113	5	4	
DGV1 DGV1	Business	2024	-1	-1	-56	98	11	3 155	
DGV1 DGV1	Commuting	2014	-27	-43	-2655	4/06	0	155	
DGV1	Commuting	2024	0	0	0	0	0	0	
DGV1 DGV1	Commuting	Total	0	0	0	0	0	0	
DGV1 DGV1	Other Other	2024	0	0	0	0	0	0	
OGV1	Other	Total	0	0	0	0	0	0	
TOTAL BENEFIT:	S BY TIME SAVI	NG							
Total benefit:	s (£000s) by s	ize of time s							
		Year 2014	< -5 mins	-5 to -2 mins -1	-2 to 0 mins	0 to 2 mins 548	2 to 5 mins	> 5 mins 0	
Car	Business	2024	0	-1	-255	469	7	0	
	Business			-1	-200				
		Total	0	- 4 0	-12542	22600	395	9	
	Commuting	2014	4	-1 -40 14	-12542 -210 -110	22600 390 290	395 -6 -8	9	
Car	Commuting Commuting	2014 2024	0 4 0 - 8	-1 -40 14 16 226	-12532 -12542 -210 -110 -7126	22600 390 290 14793	395 -6 -8 2	9 6 -3	
Car	Commuting Commuting	2014 2024	0 4 0 -8 -3	-40 14 16 226 -16	-12542 -12542 -210 -110 -7126 -138	22600 390 290 14793 197	395 -6 -8 2 4	9 6 -3 63 4	
Car Car Car Car	Commuting Commuting Other Other Other	2014 2024 Total 2014 2024	0 4 -8 -3 0 -45	-10 -40 14 16 226 -16 0 -107	-12542 -210 -110 -7126 -138 -106	22600 390 290 14793 197 153 7444	395 -6 -8 2 4 0 222	9 6 -3 63 4 0	
Car Car Car Car	Commuting Commuting Other Other Other	2014 2024 Total 2014 2024	0 4 0 -8 -3 0 -45 -1	-1 -40 14 16 226 -16 0 -107 -7	-1254 -12542 -210 -110 -7126 -138 -106 -5148 -131	22600 390 290 14793 197 153 7444 220	395 -6 -8 2 4 0 222 28	9 -3 63 4 0 41 5	
Car Car Car Car LGV Freight LGV Freight	Commuting Commuting Other Other Other Business Business	2014 2024 Total 2014 2024 Total 2014 2014 2024	0 4 0 -8 -3 0 -45 -1 -1	-1 -40 14 16 226 -16 0 -107 -7 -7 -11	-12542 -12542 -210 -110 -138 -138 -106 -5148 -131 -109	22600 390 14793 197 153 7444 220 172	395 -6 -8 2 4 0 222 28 3 3	9 6 -3 6 3 4 0 41 5 3	
Car Car Car Car LGV Freight LGV Freight LGV Freight	Commuting Commuting Other Other Business Business Business	2014 2024 Total 2014 2024 Total 2014 2024 Total	0 4 0 -8 -3 0 -45 -1 -1 -75 0	-10 -40 14 16 226 -16 0 -107 -77 -11 -885 0	-12542 -210 -110 -7126 -138 -106 -5148 -131 -109 -5551 0	22600 390 14793 197 153 7444 220 172 8609 0	395 -6 -8 2 4 4 0 222 28 3 309 0 0	9 6 -3 63 4 0 41 5 3 178	
Car Car Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight	Commuting Commuting Other Other Business Business Business Commuting Commuting	2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2014 2024	0 4 0 -8 -3 0 -45 -1 -1 -75 0 0	-10 -40 14 16 226 -16 0 -107 -77 -11 -885 0 0	-12542 -210 -110 -7126 -138 -106 -5148 -131 -109 -5551 0 0	22600 390 14793 1479 153 7444 220 172 8609 0 0	395 -6 -8 2 4 0 222 28 3 309 0 0 0 0 0	9 6 -3 63 4 0 41 5 3 178 0 0 0	
Car Car Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight	Commuting Commuting Other Other Business Business Business Commuting Commuting	2014 2024 Total 2014 2024 Total 2024 Total 2014 2024 Total 2014 2024 Total	0 4 0 -8 -3 0 -45 -1 -1 -75 0 0 0	-10 -40 14 16 226 -16 0 -107 -77 -11 -885 0 0	-12542 -210 -7126 -138 -106 -5148 -131 -109 -5551 0 0	22600 390 14793 1479 153 7444 220 172 8609 0 0 0	395 -6 -8 2 4 0 222 28 3 309 0 0 0 0 0	9 6 -3 6 3 4 0 41 5 3 3 178 0 0 0 0	
Car Car Car Car Car CGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight	Commuting Commuting Other Other Business Business Commuting Commuting Other	2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2024 Total 2014	0 4 -8 -3 0 -45 -1 -1 -75 0 0 0 0 0	- 140 144 16 2260 -16 0 -107 -7 -11 -885 0 0 0 0 0 0 0 0	-12542 -210 -110 -7126 -138 -106 -5148 -131 -109 -5551 0 0 0 0 0 0 0	22600 390 290 14793 7444 220 172 8609 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	395 -6 -8 2 4 0 222 28 3 309 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 6 -3 63 4 0 41 5 3 178 0 0 0 0 0 0 0 0 0	
lar lar lar lar GGV Freight GGV Freight GGV Freight GGV Freight GGV Freight GGV Freight GGV Freight	Commuting Commuting Other Other Business Business Business Commuting Commuting Other Other	2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total	0 4 0 -8 -3 0 -45 -1 -1 -1 -75 0 0 0 0 0 0 0 0 0 0	- 40 14 16 226 -16 0 -107 -77 -11 -885 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-12542 -210 -110 -7126 -138 -136 -5148 -131 -109 -5551 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22600 390 14793 153 7444 220 172 8609 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	395 -6 -8 2 4 0 222 28 3 309 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 6 -3 63 4 0 41 5 3 178 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Car Car Car Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight	Commuting Commuting Other Other Dusiness Business Business Commuting Commuting Other Other Other Dusiness	2014 2024 Total 2014 2014 2024 Total 2024 Total 2024 Total 2014 2024 Total 2014 2024 Total 2024		- 10 - 100 -11 -10 - 100 114 126 -226 -20 -10 -10 -11 -805 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				9 9 -3 -3 4 4 0 41 5 -3 178 0 0 0 0 0 0 0 0 0 0 0 0 0	
Car Car Car Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight DGV Freight DGV 1 DGV1	Commuting Commuting Other Other Business Business Business Commuting Commuting Other Other Business Business Business	2014 2024 Total 2014 2024 Total 2024 Total 2024 Total 2024 Total 2024 Total 2024 Total 2024 Total 2024	-1	-1	-65	119	4	9 9 6 -3 3 63 3 4 0 0 1 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	
Dar Dar Dar Dar Dar Dar DGV Freight DGV Freight DGV Freight DGV Freight DGV Freight DGV Freight DGV Freight DGV1 DGV1 DGV1 DGV1	Commuting Commuting Other Other Business Business Business Commuting Other Other Other Business Business Business Business Commuting	2014 2024 Total 2014 2024 Total 2024 Total 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014	-1 -29 0	-1 -45 0	-65 -3017 0	119 5543 0	4 261 0	9 9 6 -3 3 63 3 63 4 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Car Car Car Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight CGV1 OGV1 OGV1	Commuting Commuting Other Other Dusiness Business Business Commuting Commuting Other Other Other Business Business Business Business Business Commuting Commuting	2014 2024 Total 2024 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024	-1 -29 0 0	-1 -45 0	-65 -3017 0	119 5543 0 0	4 261 0 0	9 9 6 -33 -63 -63 -63 -63 -63 -63 -63 -63 -	
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Tar Tar Tar Tar Tar Tar Cov Freight GW Freight GW Freight GW Freight GW Freight GW Freight GW Freight GW Freight WYI WYI WYI WYI WYI WYI WYI WYI	Commuting Commuting Other Other Dusiness Business Dusiness Commuting Commuting Other Other Business Business Business Business Commuting Commuting Other TIME BENEFITS (thousands of Purpose Business Business Business Commuting Other Commuting Other Susiness Busines	2014 2024 Total 2024 2024 2024 2024 2024 2024 2024 202	-1 -29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-1 -45 0 0 0 0 0 1 to 5 kms 0 0 17	-65 -3017 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 4 4 405	119 5543 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 261 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 6 -3	1 0 1 0 53 -23 -4 -9 -2 -3 -158 -192 -6 -10
Tar Tar Tar Tar Tar Tar GW Freight GW Freight Tar Tar Tar Tar Tar Tar Tar Tar	Commuting Commuting Other Other Other Business Business Business Commuting Commuting Other Other Business Business Business Business Commuting Other TIME BENEFITS Other TIME BENEFITS Usiness Business Commuting Commu	2014 2024 Total 2024 2024 2024 2024 2024 2024 2024 202	-1 -29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-1 -45 0 0 0 0 0 1 to 5 kms 0 0 17	-65 -3017 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 4 4 405	119 5543 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 261 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 6 -3	1 0 1 0 53 -23 -4 -9 -2 -3 -158 -192 -6 -10
Tar Tar Tar Tar Tar Tar Tar Tar	Commuting Commuting Commuting Other Other Business Business Business Commuting Commuting Other Other Business Business Business Business Commuting Commuting Commuting Commuting Other TIME BENEFITS (thousands of Purpose Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business	2014 2024 2024 Total 2024 2024 2024 2024 2024 2024 2024 202	1 29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-1 -45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-65 -3017 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	119 5543 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 72 9 5 333 333 30 0 8 5 5 333 30 0 8 5 5 333 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 261 0 0 0 0 0 0 0 0 0 0 0 0 2 89 5 6 6 373 373 0 0 0 0 24 3 3 3 3 3 3 3 3	9 9 6 -3 3 63 4 0 0 41 1 5 3 3 178 8 3 178 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
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Tar Tar Tar Tar Tar Tar Tar Tar	Commuting Commuting Commuting Other Other Business Business Commuting Commuting Other Other Business Business Business Business Commuting Commuting Other TIME BENEFITS (thousands of Purpose Business Bu	2014 2024 70cal 2024 2024 2024 2024 2024 2024 2024 202	-1 -29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-1 -45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-655 -3017 -3017 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1	119 5543 0 0 0 0 0 0 0 0 0 1 1 72 72 9 5 333 3 3 3 3 3 3 3 3 3 3 0 -8 5 2 2 141 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 261 0 0 0 0 0 0 0 0 0 0 2 8 9 5 6 6 373 9 5 6 6 373 3 3 3 171 0 0 0 0 0 2 4 3 3 3 171 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 6 -3	$ \begin{array}{ccccc} 1 & 0 \\ 1 & 0 \\ 53 & -23 \\ -4 & -9 \\ -2 & -3 \\ -158 & -192 \\ -6 & -10 \\ 0 & 6 \\ -10 & 253 \\ 2 & 0 \\ -2 & -1 \\ -90 & -37 \\ 0 & 0 \\ $
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# A5300/A562 Junction Major Scheme Business Case Economic Appraisal Report



Vehicle type	(£000e) by	distance								
		Year	< 1 kms	1 to 5 kms	5 to 10 kms	10 to 15 kms	15 to 20 kms	20 to 50 kms	50 to 100 kms	>100 kms
Car	Business	2014	0	1 00 5 113	21	-1	7	121	42	4 4
Car	Business	2024	0		36	32	39	97	20	-11
Car	Business	Total	0	336	1628	1343	1682	4677	1059	-421
Car	Commuting	2014	0	12	22	53	31	103	-22	-53
Car	Commuting	2024	0	10	33	2.4	29	89	-12	-12
Car	Commuting	Total	-1	433	1393	1215	1302	3980	-570	-748
Car	Other	2014	0	17	50	17	2	29	-31	-50
Car	Other	2024	0	11	32	-2	2	21	2	23
Car	Other	Total	-1	512	1483	13	75	954	-93	631
LGV Freight	Business	2014	0	12	24	64	3.4	0	29	-2
LGV Freight	Business	2024	0	-3	-16	20	28	18	-19	- 6
LGV Freight	Business	Total	0	-46	-546	1178	1350	763	-632	-281
LGV Freight	Commuting	2014	0	0	0	0	0	0	0	0
LGV Freight	Commuting	2024	0	0	0	0	0	0	0	0
LGV Freight	Commuting	Total	0	0	0	0	0	0	0	0
LGV Freight	Other	2014	0	0	0	0	0	0	0	0
LGV Freight	Other	2024	0	0	0	0	0	0	0	0
LGV Freight	Other	Total	0	0	0	0	0	0	0	0
OGV1	Business	2014	0	-2	2	8	7	28	14	7
OGV1	Business	2024	0	0	0	1	0	29	17	8
OGV1	Business	Total	0	- 6	6	8.6	48	1375	777	351
OGV1	Commuting	2014	0	0	0	0	0	0	0	0
OGV1	Commuting	2024	0	0	0	0	0	0	0	0
OGV1	Commuting	Total	0	0	0	0	0	0	0	0
OGV1	Other	2014	0	0	0	0	0	0	0	0
OGV1	Other	2024	0	0	0	0	0	0	0	0
OGV1	Other	Total	0	0	0	0	0	0	0	0
Vehicle type Car	Business	Year 2014	< 1 kms 0	1 to 5 kms 8	5 to 10 kms 25	10 to 15 kms 5	15 to 20 kms 8	20 to 50 kms 127	50 to 100 kms 54	>100 kms 5
Car	Business	2024	0	7	32	28	43	98	24	-12
Car	Business	Total	0	320	1521	1250	1802	4741	1232	
Car	Commuting									
Car		2014	0	4	13	3	33	136	10	2
	Commuting	2024	0	9	23	17	33 34	136 94	10 13	2 -5
Car	Commuting	2024 Total	0-1	9 361	23 1064	17 762	33 34 1440	136 94 4291	10 13 303	2 -5 -272
Car	Commuting Other	2024 Total 2014	0 -1 0	9 361 10	23 1064 21	17 762 9	33 34 1440 3	136 94 4291 20	10 13 303 -3	-445 2 -5 -272 -12
Car Car	Commuting Other Other	2024 Total 2014 2024	0 -1 0 0	9 361 10 17	23 1064 21 20	17 762 9 4	33 34 1440 3 5	136 94 4291 20 22	10 13 303 -3 -4	2 -5 -272 -12 -16
Car Car Car	Commuting Other Other Other	2024 Total 2014 2024 Total	0 -1 0 0 -1	9 361 10 17 656	23 1064 21 20 977	17 762 9 4 135	33 34 1440 3 5 175	136 94 4291 20 22 928	10 13 303 -3 -4 -121	2 -5 -272 -12 -16 -341
Car Car Car LGV Freight	Commuting Other Other Other Business	2024 Total 2014 2024 Total 2014	0 -1 0 -1 0	9 361 10 17 656 5	23 1064 21 20 977 20	17 762 9 4 135 36	33 34 1440 3 5 175 24	136 94 4291 20 22 928 7	10 13 303 -3 -4 -121 26	2 -5 -272 -12 -16 -341 -1
Car Car Car LGV Freight LGV Freight	Commuting Other Other Business Business	2024 Total 2014 2024 Total 2014 2024	0 -1 0 -1 0 0	9 361 10 17 656 5 -1	23 1064 21 20 977 20 3	17 762 9 4 135 36 18	33 34 1440 3 5 175 24 20	136 94 4291 20 22 928 7 7	10 13 303 -4 -121 26 5	2 -5 -272 -12 -16 -341 -1 -5
Car Car Car LGV Freight LGV Freight LGV Freight	Commuting Other Other Business Business Business	2024 Total 2014 2024 Total 2014 2024 Total	0 -1 0 -1 0 0 0 0 0	9 361 10 17 656 5 5 -1 -26	23 1064 21 20 977 20 3 1	17 762 9 4 135 36 18 976	33 34 1440 3 5 175 24 20 1050	136 94 4291 20 22 928 7 17 17	10 13 303 -3 -4 -121 26 5 5 62	2 -5 -272 -12 -16 -341 -5 -246
Car Car LGV Freight LGV Freight LGV Freight LGV Freight	Commuting Other Other Business Business Business Commuting	2024 Total 2014 2024 Total 2014 2024 Total 2014	0 -1 0 -1 0 0 0 0 0	9 361 10 17 656 5 -1 -26 0	23 1064 21 977 20 3 1 0	17 762 9 4 135 36 18 976 0	33 34 1440 3 5 175 24 20 1050 0	136 94 4291 20 22 928 7 17 768 0	10 13 303 -3 -4 -121 26 5 62 0	2 -5 -272 -12 -16 -341 -1 -5 -246 0
Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight	Commuting Other Other Business Business Business Commuting Commuting	2024 Total 2014 2024 Total 2014 2024 Total 2014 2014 2024	0 -1 0 -1 0 0 0 0 0 0 0	9 361 10 17 656 5 -1 -26 0 0 0	23 1064 21 20 977 20 3 1 0 0	17 762 9 4 135 36 18 976 0 0	33 34 1440 3 5 175 24 20 1050 0 0	136 94 4291 20 22 928 7 17 768 0 0	10 13 303 -3 -4 -121 26 5 62 0 0 0	2 -5 -272 -12 -16 -341 -1 -5 -246 0 0
Car Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight	Commuting Other Other Business Business Business Commuting Commuting	2024 Total 2014 2024 Total 2014 2024 Total 2014	0 -1 0 -1 0 0 0 0 0 0 0 0 0 0	9 361 10 17 656 5 -1 -26 0	23 1064 21 977 20 3 1 0	17 762 9 4 135 36 18 976 0	33 34 1440 3 5 175 24 20 1050 0	136 94 4291 20 22 928 7 17 768 0	10 13 303 -3 -4 -121 26 5 62 0	2 -5 -272 -12 -341 -1 -5 -246
Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight	Commuting Other Other Business Business Business Commuting Commuting	2024 Total 2014 Total 2014 2014 2024 Total 2014 2014 2024 Total	0 -1 0 -1 0 0 0 0 0 0 0	9 361 10 17 656 5 -1 -26 0 0 0 0	23 1064 21 20 977 20 3 1 0 0 0 0 0	17 762 9 4 135 36 18 976 0 0 0 0	33 34 1440 3 5 175 24 20 00 1050 0 0 0 0 0 0 0 0 0	136 94 4291 20 22 928 7 7 768 0 0 0 0	10 13 303 -3 -4 -121 26 5 62 0 0 0	2 -5 -272 -12 -14 -1 -5 -246 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Car Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight	Commuting Other Other Business Business Business Commuting Commuting Commuting Other	2024 Total 2014 2024 Total 2024 Total 2014 2024 Total 2024 Total 2014	0 -1 0 -1 0 0 0 0 0 0 0 0 0 0 0	9 361 10 17 656 5 -1 -26 0 0 0 0 0 0	23 1064 21 20 977 20 3 1 1 0 0 0 0 0 0 0 0 0 0	17 762 9 4 135 36 18 976 0 0 0 0 0 0 0 0	33 34 1440 35 175 24 20 1050 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	136 94 4291 20 22 928 7 17 768 0 0 0 0 0	10 13 303 -3 -4 -121 26 5 62 0 0 0 0 0 0	2 -5 -272 -12 -16 -341 -5 -246 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight	Commuting Other Other Business Business Business Commuting Commuting Other Other	2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024	0 -1 0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 361 10 17 656 5 -1 -26 0 0 0 0 0 0 0 0 0 0 0	23 1064 21 20 977 20 3 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 762 9 4 135 36 18 976 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 34 1440 3 5 175 24 20 1050 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	136 94 4291 20 22 928 7 17 768 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 13 303 -3 -4 -121 26 5 62 0 0 0 0 0 0 0 0 0	2 -55 -272 -16 -341 -1 -55 -246 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight	Commuting Other Other Business Business Business Commuting Commuting Commuting Other Other Other	2024 Total 2014 2024 Total 2014 2024 Total 2014 2014 2024 Total 2014 2024 Total	0 -1 0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 9 361 10 17 656 5 -1 -26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 1064 21 200 977 20 3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 762 9 4 135 36 18 976 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 34 1440 35 175 24 20 1050 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	136 94 4291 20 922 928 7 7 768 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 13 303 -3 -4 -121 26 5 62 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 -55 -212 -16 -341 -5 -246 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight	Commuting Other Other Business Business Commuting Commuting Other Other Other Business	2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014	0 -1 0 0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 361 10 17 656 5 -1 -26 0 0 0 0 0 0 0 0 0 0 1	23 1064 21 20 977 20 3 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 762 9 4 135 36 135 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7 7	33 34 1440 3 5 175 24 20 1050 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	136 94 4291 20 928 7 768 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 13 303 -3 -4 -121 26 5 62 0 0 0 0 0 0 0 0 0 20	2 -5 -272 -12 -341 -3 -5 -246 0 0 0 0 0 0 0 0 0 0 0 5 5
Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight OGV1 OGV1	Commuting Other Other Business Business Commuting Commuting Other Other Business Business Business	2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024	0 -1 0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 9 361 10 17 655 -1 -26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 1064 21 20 977 20 3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 762 9 4 135 36 18 976 0 0 0 0 0 0 0 0 0 0 0 0 0 7 7 3	33 34 1440 3 5 175 24 20 1050 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	136 94 4291 20 22 928 7 7 768 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 13 303 -4 -121 5 62 0 0 0 0 0 0 0 0 0 0 0 0 13	2 -5 -272 -12 -14 -341 -5 -246 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Car Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight OGV1 OGV1	Commuting Other Other Business Business Commuting Commuting Other Other Business Business Business	2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014	0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 361 10 17 656 5 -1 -26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7 7	23 1064 21 200 377 200 3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 762.9 4 135 36 18 976 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7 7 3 3 149	33 34 1440 3 5 175 24 20 1050 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	136 94 4291 20 22 928 7 17 768 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 133 -34 -44 -121 55 62 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 -5 -272 -12 -16 -341 -341 -1 -5 -246 0 0 0 0 0 0 0 0 0 0 0 5 5 2777
Car Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight OGV1 OGV1 OGV1	Commuting Other Other Business Business Commuting Commuting Other Other Business Business Business Commuting	2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024	0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 361 10 17 656 5 5 1 -26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 1064 21 20 977 20 3 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 6 1 0 0 0 0	17 762 9 4 135 36 135 36 976 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7 3 149 0 0 0	33 34 1440 3 5 775 24 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	136 94 4291 22 928 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 13 303 -3 -4 -121 26 5 62 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 -5 -272 -12 -344 -344 -41 -5 -246 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Car Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight CGV1 OGV1 OGV1 OGV1	Commuting Other Other Dusiness Business Business Commuting Commuting Other Other Business Business Business Commuting Commuting	2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2014 2014 2014 2014 2014 2014 2024	0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 361 10 17 656 5 1 -26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	233 1064 21 200 977 200 3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 762 9 4 135 36 18 976 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 34 1440 3 5 175 24 20 1050 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	136 94 4291 20 22 928 7 768 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 13 303 -4 -121 -26 5 5 5 6 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 -5 -272 -12 -14 -14 -341 -5 -246 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight UGV1 OGV1 OGV1 OGV1 OGV1	Commuting Other Other Business Business Commuting Commuting Other Other Business Business Business Commuting Commuting Commuting Commuting	2024 Total 2014 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total	0 -1 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 361 10 17 656 5 5 -1 -26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 1064 21 20 977 20 3 1 1 0 0 0 0 0 0 0 0 0 0 0 1 1 61 0 0 0 0	17 762 9 4 135 18 976 0 0 0 0 0 0 0 0 7 7 3 149 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 34 1440 3 5 775 24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	136 94 4291 22 928 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 133 -34 -121 26 5 62 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 -5 -272 -12 -14 -14 -5 -246 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Car Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight OGV1 OGV1 OGV1 OGV1 OGV1 OGV1	Commuting Other Other Business Business Business Commuting Commuting Other Other Business Business Business Commuting Commuting Commuting Commuting Commuting Commuting Commuting	2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024	0 -1 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 361 10 17 656 5 -1 -26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	233 1064 21 207 377 200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 762 4 1355 36 976 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 34 1440 3 5 175 24 20 1050 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	136 94 4291 20 22 928 7 768 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 13 303 -4 -121 -26 5 5 5 6 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 - 5 - 2772 - 12 - 14 - 344 - 246 - 246 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight OGV1 OGV1 OGV1 OGV1 OGV1 OGV1 OGV1 OGV1	Commuting Other Other Business Business Business Commuting Commuting Other Other Business Business Business Commuting Commuting Commuting Commuting Other Other Other Other	2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total	0 -1 0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 361 361 17 656 5 -1 -26 0 0 0 0 0 0 0 0 0 0 0 0 0	23 1064 21 200 977 200 3 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 762 9 4 135 18 976 0 0 0 0 0 0 0 0 7 7 3 149 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 34 1440 3 5 775 24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	136 94 4291 22 928 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 133 -34 -121 26 5 62 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 -5 -272 -12 -344 -344 -344 -344 -3 -246 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Car Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight GGV1 GGV1 GGV1 GGV1 GGV1 GGV1 GGV1 GGV	commuting other Other Business Business Business Commuting Commuting Other Other Business Business Business Commuting Commutin	2024 Total 2014 2024 Total 2014 2024 Total 2014 2024 Total 2014 2014 2014 2024 Total 2014 2024 Total 2014 2024 Total 2024 Total 2014 2014 2024 Total 2014 2014 2024 Total 2014 2014 2024 Total 2014 2014 2014 2014 2014 2014 2014 2014	0 -1 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 361 361 17 656 5 -1 -26 0 0 0 0 0 0 0 0 0 0 0 0 0	23 1064 21 200 977 200 3 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 762 9 4 135 18 976 0 0 0 0 0 0 0 0 7 7 3 149 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 34 1440 3 5 775 24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	136 94 4291 22 928 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 133 -34 -121 26 5 62 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 -5 -272 -12 -14 -14 -5 -246 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Car Car LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight LGV Freight OGV1 OGV1 OGV1 OGV1 OGV1 OGV1 OGV1 OGV1	commuting other Other Business Business Business Commuting Commuting Other Other Business Business Business Commuting Commutin	2024 Total 2014 2024 Total 2014 2014 2014 2014 2014 2014 2014 2014	0 -1 0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 361 361 17 656 5 -1 -26 0 0 0 0 0 0 0 0 0 0 0 0 0	23 1064 21 200 977 200 3 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 762 9 4 135 18 976 0 0 0 0 0 0 0 0 7 7 3 149 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 34 1440 3 5 775 24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	136 94 4291 22 928 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 133 -34 -121 26 5 62 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 -5 -272 -12 -14 -14 -5 -246 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## A5300/A562 Junction Major Scheme Business Case

Economic Appraisal Report



	port System(1	TEE)			
Consumer - Commuting user benefits	All Modes		Road		
Travel Time	7005		7005		
Vehicle operating costs	944		944		
User charges	0		0		
During Construction & Maintenance	0		0		
NET CONSUMER - COMMUTING BENEFITS	7950		7950		
Consumer - Other user benefits	All Modes		Road		
Travel Time	3574		3574		
Vehicle operating costs	-1166		-1166		
User charges During Construction & Maintenance	0		0		
NET CONSUMER - OTHER BENEFITS	2407		2407		
Business Travel Time	All Modes 14728	Road Personal	Road Freigh 442	Bus Personal	Bus Freight
Vehicle operating costs	1079	118			
User charges	0	0	50.		
During Construction & Maintenance	0	0			
Subtotal	15807	10421	538	5	
Private Sector Provider Impacts					
Revenue	0		0		
Operating costs	0		0		
Investment costs	0		0		
Grant/subsidy	0		0		
Subtotal	0		0		
Other business Impacts					
Developer contributions	0		0		
NET BUSINESS IMPACT	15807				
TOTAL					
Present Value of Transport Economic					
Efficiency Benefits (TEE)	26164				
Note: Benefits appear as positive nu Note: All entries are present values Public Accounts				indero.	
Local Government Funding	ALL MODES	Road			
Revenue	0	0			
Operating Costs	0				
Investment Costs	5313				
Developer Contributions	0	0			
Grant/Subsidy Payments					
	0	0			
NET IMPACT	0 5313	0			
NET IMPACT Central Government Funding: Transport	5313 ALL MODES	0 5313 Road			
NET IMPACT Central Government Funding: Transport Revenue	5313 ALL MODES 0	0 5313 Road 0			
NET IMPACT Central Government Funding: Transport Revenue Operating costs	5313 ALL MODES 0 0	0 5313 Road 0 0			
NET IMPACT Central Government Funding: Transport Revenue Operating costs Investment costs	5313 ALL MODES 0 0 0	0 5313 Road 0 0 0			
NET IMPACT Central Government Funding: Transport Revenue Operating costs Investment costs Developer Contributions	5313 ALL MODES 0 0 0 0 0	0 5313 Road 0 0 0 0			
NET IMPACT Central Government Funding: Transport Revenue Operating costs Investment costs Developer Contributions Grant/Subsidy Payments	5313 ALL MODES 0 0 0 0 0 0	0 5313 Road 0 0 0 0 0			
NET IMPACT Central Government Funding: Transport Revenue Operating costs Investment costs Developer Contributions Grant/Subsidy Payments NET IMPACT	5313 ALL MODES 0 0 0 0 0 0 0 0	0 5313 Road 0 0 0 0			
NET IMPACT Central Government Funding: Transport Revenue Operating costs Investment costs Developer Contributions Grant/Subsidy Payments	5313 ALL MODES 0 0 0 0 0 0 0 0	0 5313 Road 0 0 0 0 0			
NET IMPACT Central Government Funding: Transport Revenue Operating costs Investment costs Developer Contributions Grant/Subsidy Payments NET IMPACT	5313 ALL MODES 0 0 0 0 0 0 0 0	0 5313 Road 0 0 0 0 0			
NET IMPACT Central Government Funding: Transport Revenue Operating costs Investment costs Developer Contributions Grant/Subsidy Payments NET IMPACT Central Government Funding: Non-Transpor Indirect Tax Revenues	5313 ALL MODES 0 0 0 0 0 0 0	0 5313 Road 0 0 0 0 0 0 0			
NET IMPACT Central Government Funding: Transport Revenue Operating costs Investment costs Developer Contributions Grant/Subsidy Payments NET IMPACT Central Government Funding: Non-Transpor Indirect Tax Revenues TOTALS	5313 ALL MODES 0 0 0 0 0 0 0 1 88	0 5313 Road 0 0 0 0 0 0 188			
NET IMPACT Central Government Funding: Transport Revenue Operating costs Investment costs Developer Contributions Grant/Subsidy Payments NET IMPACT Central Government Funding: Non-Transpor Indirect Tax Revenues	5313 ALL MODES 0 0 0 0 0 0 0	0 5313 Road 0 0 0 0 0 0 188			
NET IMPACT Central Government Funding: Transport Revenue Operating costs Investment costs Developer Contributions Granf/Subsidy Payments NET IMPACT Central Government Funding: Non-Transpor Indirect Tax Revenues TOTALS Broad Transport Budget Wider Fublic Finances Note: Costs appear as positive numbe Note: All entries are present values	5313 ALL MODES 0 0 0 0 0 0 1 1 88 5313 188 5313 188 crs, while re discounted t	0 5513 Road 0 0 0 0 0 0 188 5313 188		butions appear	as negative numbers.
NET IMPACT Central Government Funding: Transport Revenue Operating costs Investment costs Developer Contributions Granf/Subsidy Payments NET IMPACT Central Government Funding: Non-Transpor Indirect Tax Revenues TOTALS Broad Transport Budget Wider Fublic Finances Note: Costs appear as positive numbe Note: All entries are present values Analysis of Monetised Costs and Benefits	5313 ALL MODES 0 0 0 0 0 0 1 1 88 5313 188 5313 188 crs, while re discounted t	0 5513 Road 0 0 0 0 0 0 188 5313 188	0 prices		as negative numbers.
NET IMPACT Central Government Funding: Transport Revenue Operating costs Investment costs Developer Contributions Granf/Subsidy Payments NET IMPACT Central Government Funding: Non-Transpor Indirect Tax Revenues TOTALS Broad Transport Budget Wider Fublic Finances Note: Costs appear as positive numbe Note: All entries are present values	5313 ALL MODES 0 0 0 0 0 0 1 1 88 5313 188 5313 188 crs, while re discounted t	0 5513 Road 0 0 0 0 0 0 188 5313 188			as negative numbers.
NET IMPACT Central Government Funding: Transport Revenue Operating costs Investment costs Developer Contributions Granf/Subsidy Payments NET IMPACT Central Government Funding: Non-Transpor Indirect Tax Revenues TOTALS Broad Transport Budget Wider Fublic Finances Note: Costs appear as positive numbe Note: All entries are present values Analysis of Monetised Costs and Benefits	5313 ALL MODES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 5513 Road 0 0 0 0 0 0 188 5313 188	0 prices	7	as negative numbers.
NET IMPACT Central Government Funding: Transport Revenue Operating costs Investment costs Developer Contributions Granf/Subsidy Payments NET IMPACT Central Government Funding: Non-Transpor Indirect Tax Revenues TOTALS Broad Transport Budget Wider Fublic Finances Note: Costs appear as positive numbe Note: All entries are present values Analysis of Monetised Costs and Benefits Greenhouse Gases	5313 ALL MODES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 5513 Road 0 0 0 0 0 0 188 5313 188	0 prices 10	7	as negative numbers.
NET IMPACT Central Government Funding: Transport Revenue Operating costs Investment costs Developer Contributions Granf/Subsidy Payments NET IMPACT Central Government Funding: Non-Transpor Indirect Tax Revenues TOTALS Broad Transport Budget Wider Public Finances Note: Costs appear as positive numbe Note: All entries are present values Analysis of Monetised Costs and Benefits Greenhouse Gases Economic Efficiency: Consumer Users (Com Economic Efficiency: Consumer Users and	S313 ALL MODES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 5513 Road 0 0 0 0 0 0 188 5313 188	0 prices 10 795 240 1580	7	as negative numbers.
NET IMPACT Central Government Funding: Transport Revenue Operating costs Investment costs Developer Contributions Grant/Subsidy Payments NET IMPACT Central Government Funding: Non-Transpor Indirect Tax Revenues TOTALS Broad Transport Budget Wider Fublic Finances Note: Costs appear as positive numbe Note: All entries are present values Analysis of Monetised Costs and Benefits Greenhouse Gases Economic Efficiency: Consumer Users (Com Economic Efficiency: Consumer Users (Oth Economic Efficiency: Consumer Users (Oth Economic Efficiency: Subiness Users and Wider Fublic Finances	S313 ALL MODES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 5513 Road 0 0 0 0 0 0 188 5313 188	0 prices 10 7955 240 1580 -18	7 ) 7 3	as negative numbers.
NET IMPACT Central Government Funding: Transport Revenue Operating costs Investment costs Developer Contributions Granf/Subsidy Payments NET IMPACT Central Government Funding: Non-Transpor Indirect Tax Revenues TOTALS Broad Transport Budget Wider Public Finances Note: Costs appear as positive numbe Note: All entries are present values Analysis of Monetised Costs and Benefits Greenhouse Gases Economic Efficiency: Consumer Users (Com Economic Efficiency: Consumer Users and	S313 ALL MODES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 5513 Road 0 0 0 0 0 0 188 5313 188	0 prices 10 795 240 1580	7 ) 7 3	as negative numbers.
NET IMPACT Central Government Funding: Transport Revenue Operating costs Investment costs Developer Contributions Grant/Subsidy Payments NET IMPACT Central Government Funding: Non-Transpor Indirect Tax Revenues TOTALS Broad Transport Budget Wider Public Finances Note: Costs appear as positive numbe Note: All entries are present values Analysis of Monetised Costs and Benefits Greenhouse Gases Economic Efficiency: Consumer Users (Oth Economic Efficiency: Consumer Users)	S313 ALL MODES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 5513 Road 0 0 0 0 0 0 188 5313 188	0 prices 10 795 240 1580 -18 2608	7 7 7 8 8	as negative numbers.
NET IMPACT Central Government Funding: Transport Revenue Operating costs Investment costs Developer Contributions Grant/Subsidy Payments NET IMPACT Central Government Funding: Non-Transpor Indirect Tax Revenues TOTALS Broad Transport Budget Wider Fublic Finances Note: Costs appear as positive numbe Note: All entries are present values Analysis of Monetised Costs and Benefits Greenhouse Gases Economic Efficiency: Consumer Users (Com Economic Efficiency: Consumer Users (Oth Economic Efficiency: Consumer Users (Oth Economic Efficiency: Subiness Users and Wider Fublic Finances	S313 ALL MODES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 5513 Road 0 0 0 0 0 0 188 5313 188	0 prices 10 7955 240 1580 -18	7 7 7 8 8	as negative numbers.

OVERALL IMPACTS Net Present Value (NPV) 20770 Benefit to Cost Ratio (BCR) 4.909

Note: This table includes costs and benefits which are regularly or occasionally presented in monetised form in transport appraisals, together with some where monetisation is in prospect. There may also be other significant costs and benefits, some of which cannot be presented in monetised form. Where this is the case, the analysis presented above does NOT provide a good measure of value for money and should not be used as the sole basis for decisions.



### 4.3 Journey Time Reliability Output

Running JTV Tools

Year 1 JTV Benefits (£ in 2010 prices):, 65853 Year 2 JTV Benefits (£ in 2010 prices):, 40195 Total JTV Benefits (£ in 2010 prices):, 2132437