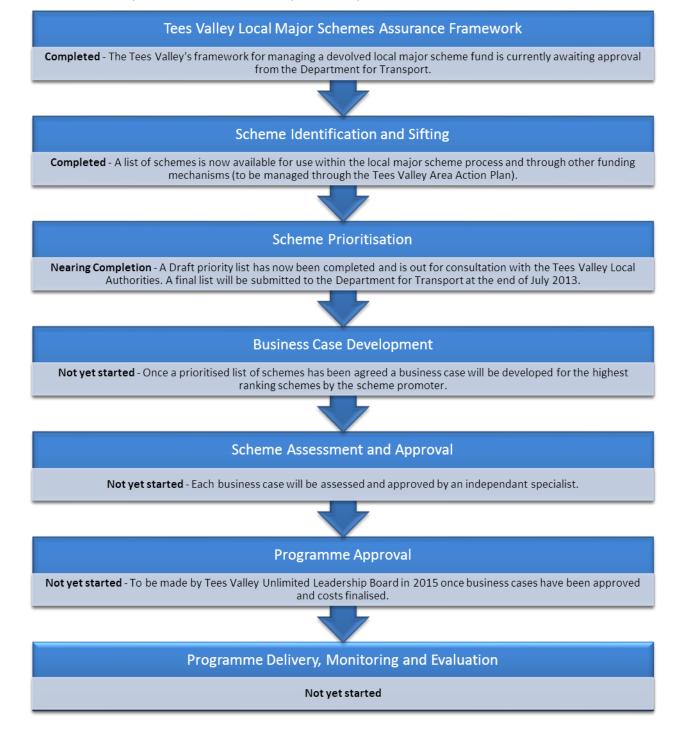
# Tees Valley Local Major Scheme Prioritisation Draft 3

This note sets out the draft priority list for the Tees Valley's 2015-19 local major transport scheme budget, which has been devolved from central government. The management of this budget is explained in further detail within the Tees Valley Local Major Transport Schemes Assurance Framework. The process and the Tees Valley's current position is summarised below:



# **Scheme Identification and Sifting**

## **Scheme Identification**

A long list of highway and public transport schemes has been identified through the Tees Valley Area Action Plan (AAP). This has been achieved within the AAP by identifying congestion hotspots using the Tees Valley Multimodal Model. The model helps to predict where development and growth, specified within the Development Database, will contribute to future congestion on the Tees Valley's Strategic Road Network. Numerous schemes are then tested within the model to identify which will mitigate these congestion hotspots and appropriate schemes are added to the long list. The long list of schemes has also been supplement by schemes identified by local authorities through work they have undertaken on a site by site basis.

The model provides an assessment of each scheme and produces outputs that can be used within the sifting and prioritisation process.

## Sifting

The sifting criteria have been selected so that any scheme that reaches the prioritisation phase would most likely be able to be developed into a WebTAG compliant business case with further work. The sifting criteria are:

- Value for Money: A Benefit Cost Ration (BCR) of greater than 1.5
- Total Scheme Cost: Between £1.5m and £20m
- **Timescale**: A scheme would be deliverable within the funding period (2015-19) and would provide sufficient benefits to offset its costs within 5 years of the end of the period.

The full long list of schemes is shown below. Those highlighted in yellow meet all of the sifting criteria and have been taken forward in the Local Major Scheme process for prioritisation. Schemes which do not make it past the sifting process will continue to be considered within the AAP. The AAP accounts for schemes that would only be required longer term or would be better suited to other funding sources, where schemes may have to meet different criteria than those specified for Local Major Scheme funding.

Scheme	In	Cost	BCR	Benefit	2015-19 Position
	Timescale	£m	10 700	Year*	Assessment
A174 Extension Dual	YES	3.28	12.786	2015	ADVANCE - prioritisation
West Park Link	YES	1.075	24.438	2015	Alternative Funding (Cost)
A66(T) Yarm Road [Grade Separation]	YES	12	21.050	2018	ADVANCE - prioritisation
Portrack Relief Road	YES	9.832	22.331	2019	ADVANCE - prioritisation
A66(T) Elton Interchange	YES	7	13.844	2020	ADVANCE - prioritisation
Manhattan Gate	YES	4.5	4.262	2021	ADVANCE - prioritisation
Yarm Back Lane/Darlington Lane	YES	2	1.542	2031	Later Delivery
Nunthorpe Parkway	YES	5	0.000	n/a	Alternative (Benefit)
A66(T) Yarm Road	YES	4.307	0.000	n/a	Alternative (Benefit)
Inner Ring - Northgate	YES	4	0.000	n/a	Alternative (Benefit)
A1(M)/A68 (J58)	YES	1.5	0.000	n/a	Alternative (Benefit)
UTMC*	YES	2	n/a	n/a	Later Delivery
Tees Valley Metro - Darlington Station	NO	18	3.114	2016	Later Delivery
A66(T) Great Burdon	NO	2.706	15.167	2033	Later Delivery
Inner Ring - Feethams	NO	5.5	0.000	n/a	Alternative (Benefit)
E Middlesbrough to Prissick	NO	11	28.093	n/a	Later Delivery
Stainton Way Western Extension	NO	8	3.797	n/a	Later Delivery
Main Line - Darlington Station	NO	70	n/a	n/a	Later Delivery
A66(M)/A1(M) (J57)	NO	7.5	n/a	n/a	Later Delivery
Inner Ring - Russell Street	NO	7	n/a	n/a	Later Delivery
A19/A174 (Option 6)	NO	6	n/a	n/a	Later Delivery
A66(T) Blands Corner	NO	4.56	n/a	n/a	Later Delivery
Central Park Southern Access	NO	3.05	n/a	n/a	Later Delivery
Inner Ring - Freemans Place	NO	2.83	n/a	n/a	Later Delivery
North Burn Access	NO	n/a	n/a	n/a	Later Delivery
Greystones	NO	n/a	n/a	n/a	Later Delivery
Teesside Park Second Access	NO	n/a	n/a	n/a	Later Delivery
Wynyard/Wolviston	NO	n/a	n/a	n/a	Later Delivery
Oakesway-Port Access	NO	n/a	n/a	n/a	Later Delivery
Dockside Road Extension	NO	n/a	n/a	n/a	Later Delivery
Swans Corner/Ormesby Bank- A174	NO	n/a	n/a	n/a	Later Delivery
A174 Dual Redcar - Saltburn	NO	n/a	n/a	n/a	Later Delivery
Rail: Nunthorpe - Guisborough	NO	n/a	n/a	n/a	Later Delivery

\*Benefit Year relates to when a scheme begins to have a positive benefit and starts to pay back its costs.

## **Scheme Prioritisation**

The Tees Valley transport priorities were established within Connecting the Tees Valley, the Tees Valley Statement of Transport Ambition, published in April 2011. This provided a Tees Valley transport perspective on the 2010 National Infrastructure Plan and a response to the Tees Valley's Economic and Regeneration Statement of Ambition. The role of transport was summarised within three challenges, which were to:

- Improve the journey experience of transport users of urban, regional and local networks, including interfaces with national & international networks;
- Improve the connectivity and access to labour markets of key business centres; and
- Deliver quantified reductions in greenhouse gas emissions within cities and regional networks, taking account of cross-network policy measures.

These challenges have shaped the development of the Tees Valley Area Action Plan, which has led to the prioritisation of Local Major Schemes by their delivery of GVA (Gross Value Added), homes and carbon benefits.

The shortlisted schemes have then been indexed by their relative (to other schemes within the shortlist) GVA, homes delivered and carbon benefit per £1m spent. As well as meeting the Tees Valley's value for money criteria to pass through the sifting process, the benefits per £1m spent will also favour higher value for money schemes in the prioritisation process. Weightings of 1, 2 and 3 have been applied to each index respectively to calculate a total score.



## GVA

The GVA of a scheme has been derived from the number of jobs<sup>1</sup> that could be facilitated by the extra road capacity generated by a scheme, as predicted by the Tees Valley Strategic Transport Model. The type of job generated is then determined using the Tees Valley Development Database and a GVA is generated from the direct jobs, indirect jobs and construction jobs.

The final GVA index is then calculated by dividing the GVA by the cost of the scheme and indexing it against the other shortlisted schemes.

#### **Homes Delivered**

The number of homes<sup>1</sup> delivered is estimated from the extra road capacity generated by a scheme, as predicted by the Tees Valley Strategic Transport Model. The final Homes Delivered index is then calculated by dividing the number of homes delivered by the cost of the scheme and indexing it against the other shortlisted schemes.

#### **Carbon Benefit**

The carbon benefits of a scheme have been derived from the Tees Valley Strategic Transport Model, through TUBA analysis. In simple terms, a scheme which increases the average speed on the surrounding road network will improve fuel efficiency and therefore increase the carbon benefit.

<sup>&</sup>lt;sup>1</sup> Taken from the Tees Valley Development Database

This is of course up to a certain speed threshold where a higher average speed will start to have a negative effect on fuel efficiency, thus a reduction in the carbon benefit.

The final Carbon Benefit index is then calculated by dividing the benefit by the cost of the scheme and indexing it against the other shortlisted schemes.

#### **Other Criteria**

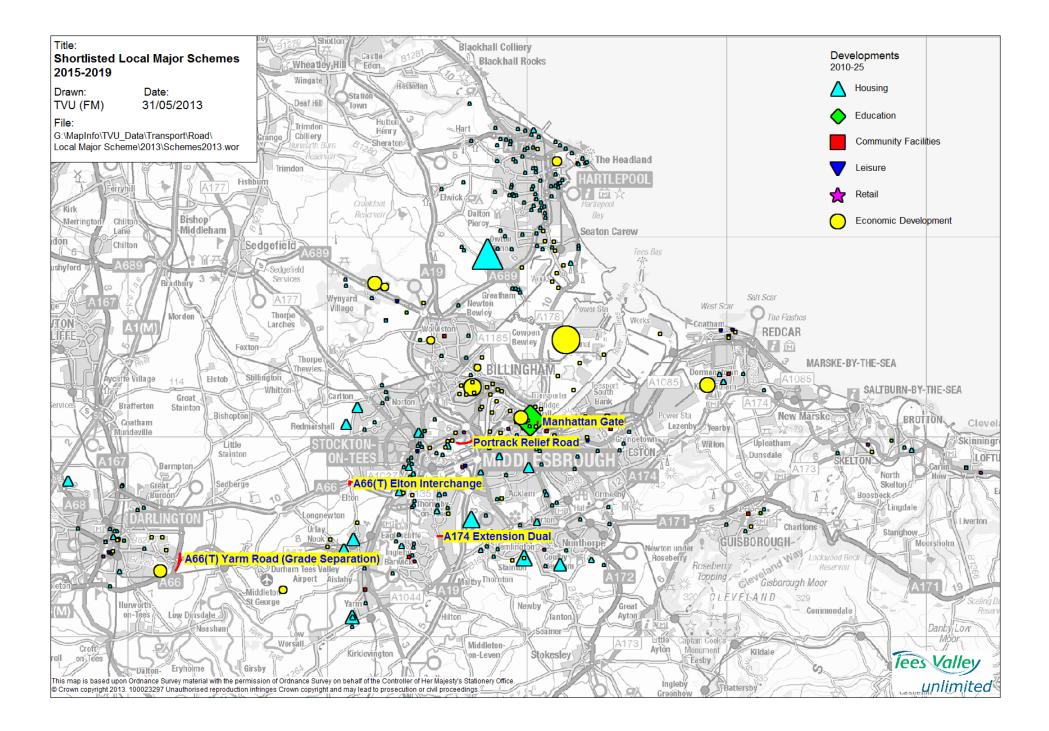
Local contributions, external funding and any income that could be generated from a scheme will be taken into consideration at a later stage, once scheme business cases have been developed. Noise, air quality, the physical environment, social and distributional impacts will also be considered at this time.

# **Scheme Prioritisation**

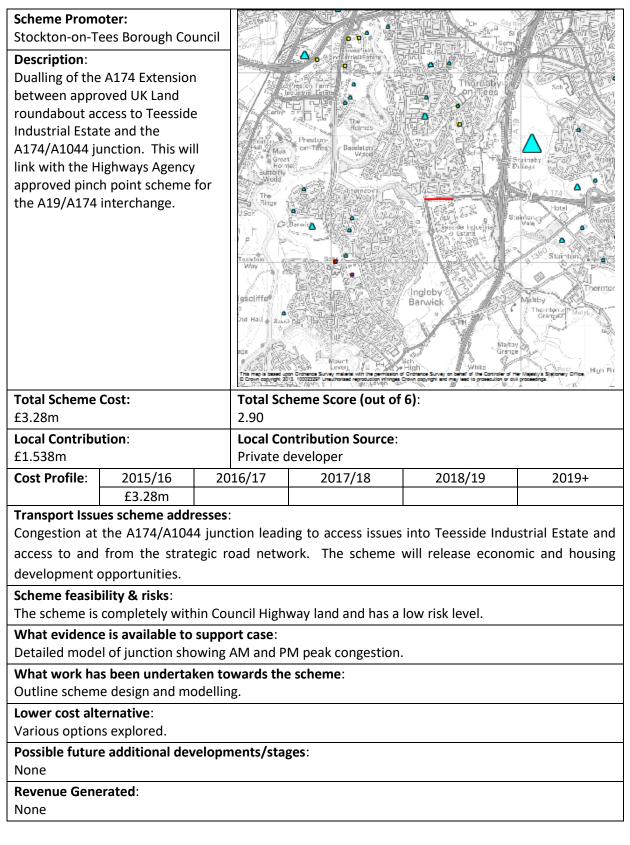
Scheme	Promoting	Scheme Cost	Local Contribution	VFM	GVA GVA		Homes		Carbon Benefits			Total	Risks		
	Authority	£m	£m		Index	Weighting	Score	Index	Weighting	Score	Index	Weighting	Score		
Manhattan Gate	Middlesbrough	4.5	1.35	4.262	1.00	3	3.00	0.16	2	0.31	0.35	1	0.35	3.66	Alternative Funding
Portrack Relief Road	Stockton-on-Tees	9.832		22.331	0.68	3	2.03	0.38	2	0.76	0.21	1	0.21	3.01	
A174 Extension Dual	Stockton-on-Tees	3.28	1.538	12.786	0.35	3	1.05	0.43	2	0.85	1.00	1	1.00	2.90	Alternative Funding
A66(T) Elton Interchange	Stockton-on-Tees	7		13.844	0.25	3	0.74	1.00	2	2.00	0.06	1	0.06	2.80	Scheme under development
A66(T) Yarm Road [Grade Separation]	Darlington	12		21.050	0.42	3	1.25	0.13	2	0.26	-0.26	1	-0.26	1.25	Scheme under development

#### Note

The numbers provided above are indicative. The model is to be rebuilt and scenarios rerun for the final business case production.



# A174 Extension Dualling



Location of developments facilitated by the extra capaci	ty released by the scheme:	:		
Homes Jobs				
	A Contraction			
Criteria	Value	Score		
Value for Money	12.786			
Benefit Year (when scheme would become beneficial)	2015			
Economic Growth (work related trips)	£7.91m			
Access to Employment (commute)	£28.17m			
Access to Amenities (other)	£6.13m			
Carbon Benefit	£0.89m	1		
	£0.89m 5	1		
Carbon Benefit		1		
Carbon Benefit Payback Years (time taken for benefit to outweigh cost)	5	1		
Carbon Benefit Payback Years (time taken for benefit to outweigh cost) Resilience of Network (extra capacity made available)	5 5563 veh/km	0.85		
Carbon Benefit Payback Years (time taken for benefit to outweigh cost) Resilience of Network (extra capacity made available) Jobs	5 5563 veh/km 551			

# A66(T) Elton Interchange

	-				
Scheme Promot		Redman	shall		
	es Borough Counc	L 9 X X	STOCKA		ESTAN
Description:		33,56	Ner49	iBishusgarth 🗛 👘	
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existing bridges	-	Evel Em	Couston Line Co		
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onto the A66 to	improve capacity	574A	m X ar F Y 1	Schart Lines	
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		-F00 - 26 <sup>3</sup>		Red Hole	
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Total Scheme C	ost:		e Score (out of 6)	:	
£7m	•	2.80			
Local Contribut	ion:	Local Contril	bution Source:		
None	2015/16	-	2017/10	2010/10	2010
Cost Profile:	2015/16	2016/17	2017/18 £3.5m	2018/19 £3.5m	2019+
Transport Issue	s scheme address	oc.	£5.5III	£5.5III	
•	on Interchange is		on West Fairfie	ld/Harrowgate La	ane. There are
	osals for between				
Scheme feasibil					
Risk level is assu					
	is available to sup	port case:			
	tly developing a m	•	for the west of Sto	ockton.	
	been undertaken				
	ng work and align			elf.	
Lower cost alte	rnative:				
At this stage det	tailed design and o	osts are not yet	available.		
Possible future	additional develo	pments/stages:			
Links to roundal	bout proposal on I	Darlington Back I	ane/Yarm Back L	ane junction.	
Revenue Gener	ated:				
None					

Location of developments facilitated by the extra capacity released by the scheme:					
Homes Jobs					
Contraction of the second seco					
Criteria		Value	Score		
Value for Money		13.844			
Benefit Year (when scheme would become beneficial	)	2015			
Economic Growth (work related trips)		£19.79m			
Access to Employment (commute)		£45.27m			
Access to Amenities (other)		£15.83m			
Carbon Benefit		£0.21m	0.06		
Payback Years (time taken for benefit to outweigh co	st)	7			
Resilience of Network (extra capacity made available)	1088 veh/km				
Jobs		1129			
Homes		1384	2.00		
GVA		£39.799m/pa	0.74		
Total			2.80		

# A66(T) Yarm Road

Scheme Prom	oter:				
Darlington Bor	ough Council		Great Burdon	1.52 m	
Description:	the A66(T) Yarm out to a grade		Hunwarth Moor Hunwarth Moor Hunwarth Moor Hunwarth Moor	Live Bundon South South Palma Fin South Palma Fin South Palma Fin South South Palma Fin South Sout	Bumper S Shall Shring Es Strater House Fm Fm Highfield United Event Strater St
Total Scheme	Cost:	Total Schem	e Score (out of 6):		
£12m		1.25			
Local Contribu	ition:	Local Contri	bution Source:		
Not yet identif	ied	LTP; DETC D	evelopment Fund; H	A; DTVA	
Cost Profile:	2015/16	2016/17	2017/18	2018/19	2019+
			£6m	£6m	
-	es scheme addre	esses:			

The A66(T) Darlington Bypass serves both strategic and local vehicle movements around the east side of Darlington. The single carriageway road is increasingly experiencing traffic congestion at peak periods and this is already acting as a barrier to the full realisation of the residential and economic potential of development sites in the urban area. This has been raised as an issue in the Darlington Economic Strategy and is one of the tasks within the adopted strategy's action plan, not least mitigating the effect on the prestige Morton Palms office development.

Scheme feasibility & risks:

Land acquisition required at Yarm Road

What evidence is available to support case:

Policy CS19 in the Local Development Framework Core Strategy sets out the case for improvements along this section of the A66. The adjacent Lingfield & Morton Palms areas are the Council's second Priority Employment Area (Policy CS5).

A development total of 161,680 sqm has been allocated within the adjacent employment areas in the urban area, with a further 231,600 sqm reserved for aviation related uses at Durham Tees Valley Airport.

Policies CS6 & CS10 also identify adjacent areas for cultural, tourism and housing.

DETC Development Fund assessment Economic Strategy feedback

# What work has been undertaken towards the scheme: Outline design and cost estimates prepared by Highways Agency, 2011 Lower cost alternative: None Possible future additional developments/stages: Further improvements to the A66 around Darlington. Revenue Generated: None, although development enabled will generate business rates or Council Tax. Location of developments facilitated by the extra capacity released by the scheme: Homes Jobs Criteria Value

Criteria	Value	Score
Value for Money	21.050	
Benefit Year (when scheme would become beneficial)	2018	
Economic Growth (work related trips)	£33.32m	
Access to Employment (commute)	£108.61m	
Access to Amenities (other)	£15.44m	
Carbon Benefit	-£1.60m	-0.26
Payback Years (time taken for benefit to outweigh cost)	14	
Resilience of Network (extra capacity made available)	692veh/km	
Jobs	1704	
Homes	309	0.26
GVA	£115.297m/pa	1.25
Total		1.25

# Manhattan Gate

Cohome Die				X and the second second		World 2
Scheme Pro			LEING	HAM Saltrolme		
Middlesbrou					Satrhome	OIL STORES
Description			1275 M		123	Setties
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Total Schem	ne Cost:			cheme Score (out	of 6):	
£4.5m			3.66			
Local Contri	bution:		Local C	ontribution Sourc	e:	
£1.35m			HCA			
Cost	2015/16	201	6/17	2017/18	2018/19	2019+
Profile:	£1.5m	£	3m			
Transport Is	sues scheme a	ddress	es:			
-						
		-		Middlehaven. Ir		-
access barri	ers to the tran	sport r	network	to stimulate econ	omic activity and	l growth. No. of
gross jobs cr	reated – 600					
Scheme fea	sibility & risks:					
	-		ted givir	ng 3 possible bridg	e options.	
1. 2.2.2.2.1.0, 30				0		

What evidence is available to support case:

A contribution of 30% towards the total cost of the scheme has been secured from HCA. This project would generate economic growth by creating opportunities for business development and employment opportunities for local people.

What work has been undertaken towards the scheme:

Feasibility study completed and project is being progressed to RIBA Stage D.

## Lower cost alternative:

None

Possible future additional developments/stages:

This scheme will accelerate the rate of investment in this flagship regeneration scheme. **Revenue Generated**:

None

Homes	Jobs	5	
and a start of the	5	A Contraction	
Criteria		Value	Score
Value for Money		4.262	
Benefit Year (when scheme would become beneficial	)	2021	
Benefit Year (when scheme would become beneficial Economic Growth (work related trips)	)	2021 £21.17m	
-	)		
Economic Growth (work related trips)	)	£21.17m	
Economic Growth (work related trips) Access to Employment (commute)	)	£21.17m £51.75m	0.35
Economic Growth (work related trips) Access to Employment (commute) Access to Amenities (other)		£21.17m £51.75m -£3.30m	0.35
Economic Growth (work related trips) Access to Employment (commute) Access to Amenities (other) Carbon Benefit	st)	£21.17m £51.75m -£3.30m £0.56m	0.35
Economic Growth (work related trips) Access to Employment (commute) Access to Amenities (other) Carbon Benefit Payback Years (time taken for benefit to outweigh co	st)	£21.17m £51.75m -£3.30m £0.56m 7	0.35
Economic Growth (work related trips) Access to Employment (commute) Access to Amenities (other) Carbon Benefit Payback Years (time taken for benefit to outweigh co Resilience of Network (extra capacity made available	st)	£21.17m £51.75m -£3.30m £0.56m 7 1247veh/km	0.35
Economic Growth (work related trips) Access to Employment (commute) Access to Amenities (other) Carbon Benefit Payback Years (time taken for benefit to outweigh co Resilience of Network (extra capacity made available Jobs	st)	£21.17m £51.75m -£3.30m £0.56m 7 1247veh/km 1459	

# Portrack Relief Road

Scheme Promot			100 <b>-</b> - <b>-</b> -		
Stockton-on-Tee	s Borough Counci	Design of the			Coromunity Starri
Description:			KSE /Ha	NY SAG	Non
The scheme wou					
	v 1.3km highway	그로오잡			
link by utilising t			LO AND AVENCE		
Billingham Beck	•				
between Marsto		A Martine Contraction	Vertice 13		- STATES
	Bridge Approach				
Road.			n • · · · · ·		
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Total Scheme C	Cost:		ne Score (out of	6):	
£9.832m		3.01			
Local Contribut	tion:	Local Contri	ibution Source:		
None		-			
Cost Profile:	2015/16	2016/17	2017/18	2018/19	2019+
		£0.8m	£4.516m	£4.516m	
-	scheme addresse				
	served by highway				
	wily congested ro	-	-		
	thin both commu				
	prace a combinat	-		-	
	additional second anagement measu	•	inductore, improve		
Scheme feasibili	-	1153.			
	s available to sup	port case:			
	ness Case – Seco		r Tees North Bar	nk Infrastructure	Measures) was
	ne Stockton-Midd				
•	ering, civil enginee	•	•		
	been undertaken			•••	
As above					
Lower cost alter	native:				
None					
	additional develop	oments/stages:			
None					
Revenue Genera	ated:				

Location of developments facilitated by the extra Homes	capa Jobs	acity released by the s	cheme:
A A A A A A A A A A A A A A A A A A A		A Constant	
Criteria		Value	Score
Value for Money		22.331	
Benefit Year (when scheme would become beneficial)		2019	
Economic Growth (work related trips)		£69.28m	
Access to Employment (commute)		£247.15m	
Access to Amenities (other)		£11.37m	
Carbon Benefit		£1.06m	0.21
Payback Years (time taken for benefit to outweigh cost	)	2	
Resilience of Network (extra capacity made available)		1519veh/km	
		3685	
Jobs		= + 0	0.76
Jobs Homes		743	0.76
		743 £153.198m/pa	2.03