

Meta Evaluation of Local Major Schemes Final Report Supplementary Appendices

Highways Agency/DfT
Framework for Transport Related Technical and Engineering Advice and Research Lot 2

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Appendix A: Programme and Cost Data

Meta Evaluation of Local Major Schemes Task Ref: SB937 (4/45/12))

		Fo	recast at P	rogramme	Entry Sta	ige			Fo	orecast at	Full Appr	oval Stage					Acti	ual	
Scheme	D		Spend £m		Total	Start of	Scheme	Date of	S	Spend £m		Total	Start of	Scheme		Spend £m		Total Start of	f Schen
	Date of PE	DfT	LA	3rd Party	Outturn	Works	Opening	FA	DfT	LA	3rd Party	Outturn	Works	Opening	DfT	LA	3rd Party	Outturn Works	Openir
Darlington Eastern Transport Corridor	Dec-00	5.700	0.000	0.000	5.700	Jul-02	?	Dec-06	12.040	0.477	0.000	12.517	Jan-07	Early 2009	13.269	1.747	0.000	15.016 Jan-07	Mar-09
Walsall Town Centre Transport Package	Dec-02	11.000	0.000	0.000	11.000	?	?	Apr-06	21.225	0.000	0.000	21.225	Jul-06	Sep-08	21.225	3.307	0.104	24.636 Jul-06	May-09
Owen Street Level Crossing Relief Road, Tipton	Dec-00	8.810	0.000	0.000	8.810	2005/06	?	Mar-07	18.317	1.400	2.683	22.400	Sep-07	Feb-10	22.191	2.297	2.683	27.171 Sep-07	Feb-10
31115 Stowmarket Relief Road	Dec-99	7.505	0.000	5.695	13.200	2002	?	Nov-07	12.000	0.000	9.000	21.000	Feb-08	Jul-09	12.000	0.000	5.700	17.700 Jun-08	Jun-10
BIA/NEC Public Transport Scheme	Aug-06	10.600	0.000	0.000	10.600	Apr-09	Jan-12	Jan-09	11.113	0.000	1.500	12.613	Apr-09	Dec-10	11.113	0.024	1.500	12.637 Jul-09	Mar-11
Brierley Hill Sustainable Access Network	Dec-03	17.370	6.940	0.000	24.310	Spring 05	Spring 07	Dec-06	20.320	7.100	0.000	27.420	Feb-07	Jul-08	20.320	3.000	4.100	27.420 Apr-07	Oct-08
Cambridgeshire Guided Busway	Dec-03	74.000	0.000	9.000	83.000	?	?	Aug-06	92.500	7.500	16.000	116.000	Jul-06	Feb-09	92.500	?	?	92.500 Jul-06	Aug-11
Cudworth and West Green Bypass	Jan-02	17.198	0.000	0.000	17.198	2002/03	2004/05	Sep-08	20.209	1.052	0.000	21.261	Nov-08	Aug-10	20.209	1.446	0.000	21.655 Nov-08	Aug-10
A688 Wheatley Hill to Bowburn Link Road	Dec-00	6.241	0.000	0.000	6.241	Nov-02	?	Mar-07	10.500	0.930	0.000	11.430	May-07	Aug-08	10.500	0.930	0.000	11.430 May-07	Oct-08
M4 Junction 11 and Mereoak Junction Improvement	Dec-01	43.520	0.000	0.000	43.520	Early 04	?	Mar-08	62.046	0.449	3.000	65.495	May-08	Mar-10	62.046	0.449	3.000	65.495 May-08	Feb-11
Manchester Metrolink Phase 1 and 2 Capacity and Renewals	Jun-05	58.000	44.000	0.000	102.000	Summer 07	Spring 08	Jan-08	58.000	44.000	0.000	102.000	May-07	Nov-10	58.000	44.000	0.000	102.000 May-07	Jan-10
A638 Quality Bus Corridor	Dec-02	15.306	3.794	0.000	19.100	?	?	Dec-06	15.921	0.000	0.000	15.921	Apr-07	Nov-08	15.921	1.289	3.200	20.410 Apr-07	Apr-09
Scarborough Integrated Transport Scheme	Dec-02	26.895	0.000	0.000	26.895	?	?	Sep-06	29.786	0.750	0.000	30.536	Oct-07	Jul-08	29.786	5.506	0.000	35.292 Oct-07	Jun-09
A1073 Spalding to Eye Improvement	Dec-01	23.750	0.000	0.000	23.750	2002/03	?	Nov-07	69.800	10.500	0.000	80.300	Apr-08	Sep-10	69.800	11.618	0.823	82.241 Apr-08	Mar-11
A158/C541 Coastal Access Improvement Burgh Le Marsh	Dec-00	7.180	0.000	0.000	7.180	2005/06	?	Jul-06	13.575	1.500	0.000	15.075	Sep-06	Dec-07	12.939	1.413	0.050	14.402 Sep-06	Nov-07
Tunstall Northern Bypass	Dec-03	2.640	4.090	0.000	6.730	Jan-05	Jan-06	Oct-06	3.127	4.542	0.000	7.669	Dec-06	Dec-07	6.057	4.463	2.183	12.703 Jan-07	Jul-08
A4123/ A461 Junction Improvement Burnt Tree	Jul-06	10.303	0.000	0.000	10.303	Oct-07	Dec-10	May-09	11.786	0.494	0.000	12.280	Aug-09	Feb-11	11.786	0.494	0.000	12.280 Sep-09	Oct-11
Weymouth 2012	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Mar-10	9.068	1.560	0.000	10.628	Mar-10	Jul-11	9.068	1.560	0.000	10.628 Mar-10	Jul-11
Greater Bristol Bus Network	Aug-06	42.343	0.000	26.260	68.603	Jan-07	Mar-10	May-08	42.343	2.241	25.726	70.310	Apr-08	Jun-11	42.343	7.526	29.495	79.364 Apr-08	Mar-12
A631 West Bawtry Road Improvement	Dec-00	5.028	0.000	0.000	5.028	Jan-04	?	Sep-06	5.028	0.000	0.000	5.028	Jan-07	Oct-07	6.130	2.938	0.000	9.068 Feb-07	Mar-09
Glasshoughton Coalfields Link Road	Dec-00	5.792	0.000	2.600	8.392	Jan-03	?	Jun-07	6.512	0.000	5.424	11.936	Jul-07	Sep-08	6.512	0.000	5.424	11.936 Sep-07	Mar 09
Hemsworth - A1 Link Road	Dec-00	11.261	0.000	0.000	11.261	May-04	?	Nov-07	22.800	1.457	0.000	24.257	Feb-08	Nov-09	22.800	1.457	0.000	24.257 Feb-08	Nov-09
Kirklees - Strengthening and Maintenance Work	Jul-06	15.200	0.000	0.000	15.200	?	?	Nov-07	13.592	0.000	0.130	13.722	Jul-06	Sep-10	15.197	0.170	0.130	15.497 Jul-06	Mar-11
North Middlesbrough Accessibility	Dec-02	12.930	0.000	0.000	12.930	Summer 05	Summer 0	Jun-08	12.264	0.797	0.470	13.531	Jun-08	Dec-09	12.264	0.797	0.470	13.531 Jun-08	Feb-10
Poole Bridge Regeneration Initiative-Core Scheme Element	Dec-01	14.140	0.000	19.860	34.000	Autumn 04	?	Mar-10	15.341	10.138	10.460	35.939	May-10	Jan-12	15.341	11.638	9.960	36.939 May-10	Feb-12
Weymouth Relief Rd	Dec-03	54.567	0.000	0.000	54.567	2007	2010	Dec-08	79.223	8.219	0.000	87.442	Apr-09	Oct-11	80.696	8.575	0.000	89.271 Apr-09	Jan-12
Taunton Third Way	Mar-2007	6.16	2.029		8.189	?	Aug-2009	Mar-2010	5.465	0.000	2.029	7.494	Mar-2010	Feb-2011	5.884	0.646	2.029	8.559 40269	Sep-201
West Midlands Red Routes	?	?	?	?	?	?	?	Dec-2004	28	0.000	0.000	28	?	?	28	0.000	0.000	28 38353	Dec-201
Notes:																			
 Data for Programme Entry costs derived from Conditional A 				s to Ministe	rs														
Data for Full Approval costs and dates derived from Full App																			
Data on forecast Start of Works and Scheme Opening Date	s at PE stage	e derived from	om electroni	ic records	available.	Those recor	ds tended	not to incude	scheme op	ening date	s.								

^{4.} Data on Actuals derived from the last Quarterly Monitoring Report received from scheme promoter.

Appendix B: Scheme Templates

			S	cheme [Details					
Scheme	Nam	е	B1115 Stowma	rket Relie	Road					
Opening	Date)	August 2010	August 2010						
Scheme			Stowmarket, Su	Iffolk Count	y Council (SCC)					
Mode			Highway							
Location	Des	cription	Semi Urban							
Evaluation			B1115 Relief Ro	oad. Stown	narket Evaluation Report – B	rief evaluation of scheme				
Docume	ntatio	on supplied		B1115 Relief Road, Stowmarket Evaluation Report – Brief evaluation of scheme using comparison of pre-scheme and post-scheme data.						
		me Period	Three Years Aft	er Opening]					
Scheme	Desc	cription	crossing immed link the Stowma	iately north rket Devel	lon-Norwich mainline at Stow of the station on the existing opment Area (SDA) with the	route of the B1115 and to				
					north of railway station					
Scheme	Obie	ctives	 Beneficial to t 	he develop	ment of Stowmarket Develop	oment Area				
Contonio	ن در	01.100								
	1		_	_						
Scheme Cost Information	Cor	Stage → ntributor ↓	Programme Forecas		Full Approval Forecast	Actual				
Scheme Cos Information	DfT		£7.5m		£12.0m	£12.0m				
Ĕ E	LA		-		-	-				
lg ch	3 rd I	Parties	£5.7		£5.7m	£6.7m				
<i>σ</i> –	Tota	al	£13.2n	1	£17.7m	£18.7m				
Headline Summar key impa	y of	Forecast	On the existing B1115 Station Road East in the AM peak, traffic flows for 2016 were predicted to reduce by 26% when compared with 2005 actual flows. Traffic flows of 570 vehicles were predicted on the relief road in 2016 resulting in a net rise of 428 vehicles. A similar situation occurred in the PM peak.							
(e.g. traffic, safety, environmen economy)		Actual	A traffic survey conducted in June 2012 in the AM peak showed that the reductions predicted for Station Road East were accurate with 403 vehicles observed compared with the 2016 predicted flow of 410 vehicles. An observed 2012 flow of 769 on the Relief Road is 35% higher than the 2016 predicted flow of 570 vehicles. A similar situation occurred in the PM peak.							
			Suitabil	ity for M	eta-Analysis					
Line of Er	nquiry	1	Depth of evidence presented?	Brief des	cription of evidence prese	nted				
		Schemes (LMS) (and if not why	Partial	Scheme of stage.	delivered 11 months after dat	e proposed at full approval				
Are LMS (and if not v		red on budget t)?	Comprehensive	increased	oval forecast and actual costs d due to extra works rec il costs were covered by inter ons.	uired by Network Rail.				
How well do LMS deliver stated objectives?		None		ives stated						
What are the main benefits of LMS (and how does this differ by scheme context/type)?		Partial	Connection	on of Stowmarket Developm safety.	ent Area to Town Centre.					
Do LMS deliver value for money?			Partial		alysis, limited accident analy					
experience	(e.g. crease comf		Partial	Traffic co scheme.	unt and accident survey und	ertaken pre-scheme post-				

Is there evidence LMS impact on modal choice?	Partial	Pedestrian and cycle flow survey indicated low NMU usage			
How do LMS impact on the environment (including carbon)?	None	No evaluation. It will be some years before this impact can be measured.			
How do LMS impact on the local economy?	None				
How do LMS have an impact on local bus operations?	None				
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	Partial	Traffic flows were predicted with reasonable accuracy.			
What are the reasons for the differences between forecast and outturn impacts?	Partial	Slight increase in scheme costs due to extra work required by Network Rail, flows on Relief Road higher than expected possibly due to new supermarket			
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?	None	More emphasis on economic benefits			
What lessons can be learnt to improve LMS evaluation?	Comprehensive / Partial / None	Economic benefits of scheme need to be analysed (journey times, accident savings)			
Potential for stakeholder engagement?	What work was	done pre-scheme to determine the provision of a cycle lane?			
		uation Supporting Evidence			
Pre Construction Traffic flows were observed in AM and PM peak periods in 2005, month of not given; Accidents on Gipping way between Station Road and Relief Road surveye July 2005 and July 2008; Frequency and duration of level crossing closures in the AM peak, June 20 Range of data quite limited in its ability to provide results on schemes bene					
Post Opening	Traffic flows were observed in AM and PM peak periods in June 2012; Accidents on Gipping way between Station Road and Relief Road surveyed from August 2010 and August 2013; Frequency and duration of level crossing closures in the AM peak, Sept 2011 Pedestrian and Cycle Flows on Relief Road Range of data quite limited in its ability to provide results on schemes benefits				

			S	cheme [Details				
Scheme	Nam	е	A4123/A461 Junction Improvement, Burnt Tree						
Opening	Date)	August 2010						
Scheme			Tividale, West Midlands						
Mode			Highway						
Location	Des	cription	Urban						
Evaluation Docume		on supplied			ovement, Burnt Tree Scheme using comparison of pre-sch				
Evaluation	on Ti	me Period	One Year After	Opening					
Scheme	Desc	cription	between Dudle junction transfor controlled cross accommodate t	The A4123 / A461 Burnt Tree Improvement Scheme was a major joint project between Dudley and Sandwell Metropolitan Borough Councils that saw the junction transformed from a five-arm roundabout into a new four-arm traffic signal controlled crossroads. A further linked signalised junction was introduced to accommodate the fifth arm of the roundabout Tividale Road to the southeast of the main junction. Further access improvements were delivered in partnership with					
					estion for motorists and bus	services			
Scheme	Ohio	etives	improve local	connectivi	ty				
Scheme	Obje	cuves	improve road	safety (acc	cident reduction)				
			improve air qu						
Scheme Cost Information	Cor	Stage → ntributor ↓	Programme Forecas		Full Approval Forecast	Actual			
e C iati	DfT		£10.303	m	£11.786m	£11.786m			
em orn	LA		-		£0.494m	£0.494m			
che	3 rd	Parties	-		-	-			
σ –	Tot	al	£10.303m		£12.280m	£12.280m			
Headline Summar key impa (e.g. traffic, safety, environmen economy)	y of acts	Forecast Actual	No pre-scheme forecasts presented in report. Traffic flows reduced by 12% post-scheme, partly due to recession partly due to traffic displacement because of disruption during construction. Reduction in journey times by up to 51% in peak periods, reduction in accident rate from 1.75 to 0.3 per month, improvement in air quality. NB - Post scheme evaluation period						
,			less than 12 months. Suitability for Meta-Analysis						
				ity for ivi	ela-Alialysis				
Line of Er	nquir	y	Depth of evidence presented?		scription of evidence prese				
		Schemes (LMS) (and if not why	Partial	stage. Co 25 month	delivered 8 months after date onstruction phase forecast to as. Delay not mentioned in ev	be 18 months, actually			
Are LMS (and if not v		red on budget t)?	Partial	Scheme	delivered on budget.				
How well d objectives?	How well do LMS deliver stated objectives?		Comprehensive		n report signals that scheme	,			
What are the main benefits of LMS (and how does this differ by scheme context/type)?			Comprehensive	connectiv					
		alue for money?	None	not analy					
experience	(e.g. crease comf		Partial	Improved	journey times, reduced safe	ty, improved connectivity.			

Is there evidence LMS impact on modal choice?	None	No evidence of modal shift presented in report.						
How do LMS impact on the environment (including carbon)?	Full	Report presents an improvement in air quality although this could be attributed to reduced traffic flows at the junction.						
How do LMS impact on the local economy?	None	Impact on local economy not presented in report						
How do LMS have an impact on local bus operations?	Partial	No specific data on improved bus operations due to scheme although improved journey times signify improved bus journeys						
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	None	No forecasts included in report						
What are the reasons for the differences between forecast and outturn impacts?	None	No forecasts included in report						
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?	None	More emphasis on economic benefits						
What lessons can be learnt to improve LMS evaluation?	Comprehensive / Partial / None	Pre-scheme forecasts should be included to enable a better evaluation of post-scheme results.						
Potential for stakeholder engagement?	Was there any t time savings?	raffic modelling carried out pre-scheme that predicted journey						
	Depth of Evaluation Supporting Evidence							
Pre Construction	Journey times, t	traffic flows, accident numbers, air quality.						
Post Opening	Journey times, t	traffic flows, accident numbers, air quality.						

			S	cheme [Details				
Scheme	Nam	е	Cambridgeshir	e Guided	Busway				
Opening	Date	;	7 th August 2011						
Scheme			Cambridgeshire)					
Mode			Public Transpor						
Location	Des	cription	•		tre passing through rural are	as.			
Evaluation		<u>p</u>	Urban centre to urban centre passing through rural areas. Consultation response report						
		on supplied	Summary pamp		ort				
		me Period	One year after of						
Scheme	Desc	cription	route between I- following key loo	Huntingdon cations: Ca	nstructed on disused railway , St Ives and Cambridge. Inc mbridge Regional College, C oks Hospital, P&R sites.	ludes stops at the			
			To address co	ongestion p	problems in the Cambridge to	Huntingdon corridor.			
					void congestion on the A14				
Scheme	Ohio	ctives	the A14.						
Scheme	Obje	Clives	Support grow area centred		yment in the nationally impodge.	rtant technology based			
Scheme Cost Information	Cor	Stage → ntributor ↓	Programme Forecas		Full Approval Forecast	Actual			
scheme Cos Information	DfT		£74.000	m	£92.500m	£92.500m			
in me	LA		-		£7.500m	Final cost unclear due			
op u	3 rd	Parties	£9.000r	n	£16.000m	to dispute between LA			
∞ =	Tot		£83.000	and contracts					
Headline Summary key impa (e.g. traffic, safety, environmen	y of acts	Forecast Actual	 1.75m passengers in first year. 2.625m passengers in 2nd year. 3.5m passengers in 3rd year. 2.5m passengers in first year. Bus ridership in corridor up 33%. 						
economy)			Suitabil	ity for M	eta-Analysis				
				ity for ivi	eta-Anarysis				
Line of Er	nquiry	1	Depth of evidence presented?	Brief des	scription of evidence prese	nted			
		Schemes (LMS) (and if not why	None						
Are LMS (and if not v		red on budget t)?	None						
How well d objectives?	lo LMS	S deliver stated	None						
What are the main benefits of LMS (and how does this differ by scheme context/type)?		Partial		ates that busway users are con the road, increased mode nce.					
Do LMS deliver value for money?			None						
How do LMS impact on traveller experience (e.g. reduced travel times, increased demands, improved comfort, improved safety, etc.)?			Partial	Some evi	dence from a survey of circa	900 users.			
Is there evid		LMS impact on	Partial	The Busy	dence from a survey of circa way is contributing to reduci ps in the area as 24% of the	ing the number of private			

		same journey before the Busway opened had switched from car (as driver), and 13% had changed to the Busway from being given a lift;		
How do LMS impact on the environment (including carbon)?	None			
How do LMS impact on the local economy?	None			
How do LMS have an impact on local bus operations?	Partial	Service frequencies increased on 22nd July and services were extended to serve a range of additional destinations		
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	Partial	Some evidence showing forecast vs. observed passenger numbers. In the first year, there were 2.5 million journeys on the Busway – 750,000 more than forecast. This demand led to a rapid increase in service provision with operators providing more buses per hour on the Busway.		
What are the reasons for the differences between forecast and outturn impacts?	None			
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?	None			
What lessons can be learnt to improve LMS evaluation?	None			
Potential for stakeholder engagement?		ed opportunity to discuss forecast vs. actual spend due to ongoing stween local authority and contractor.		
		uation Supporting Evidence		
Pre Construction	No data presented.			
Post Opening Opening year passenger numbers. Outputs and analysis from a survey involving approximately 900 users of guided busway. No other observed data presented.				

Scheme Nar	Scheme Name Darlington Eastern Transport Corridor							
Opening Date	te	27 th August 200)8					
Scheme Loc	ation	Darlington						
Mode		Highway						
Location De	scription	Urban						
Evaluation		Darlington Eastern Transport Corridor Monitoring Report -						
Documentat	ion supplied			ccidents and air quality before				
Evaluation 1	Time Period	One Year After	Opening (1	9 months post-scheme accide	ent data)			
Scheme Des	scription	The DETC a two lane road and shared use cycle/footway linking the A66, East of Darlington with Haughton Road, ¼ mile North East of the Town Centre. The road was constructed to relieve traffic flows on the section of Haughton Road, North East of the new DETC junction and to improve access to new employment land on the eastern fringes of Darlington.						
				aughton and Yarm Roads				
Scheme Obj	iactivas	 Reduction of 	traffic accid	dents.				
Scrience Obj	ectives							
ost on	Stage → ontributor ↓	Programme Foreca		Full Approval Forecast	Actual			
Df atio		£5.700i		£12.040m	£13,269m			
Scheme Cost Information Co		20.7001		£0.477m	£1.747m			
fol Sid	Parties			20.477111	21.747111			
S = 3 To	tal	£5.700ı	m	£12.517m	£15.016m			
	rai				£ 13.0 10111			
Headline Summary of key impacts		No pre-scheme forecasts presented in report.						
(e.g. traffic, safety, environment, economy)	Actual			reduced by up to 51% in the A Haughton Road and Yarm Ro				
		Suitabil	lity for M	eta-Analysis				
Line of Enqui	ry	Depth of evidence presented?	Brief description of evidence presented					
Are Local Major delivered on tim not)?	Schemes (LMS) e (and if not why	None	No evidence.					
Are LMS deliv (and if not why r	ered on budget not)?	None	No expla	nation given.				
How well do LN objectives?	/IS deliver stated	Partial	flows thro		e access to new			
	main benefits of does this differ by /type)?	Partial		redistribution of traffic, reduce al areas, no other direct benefi				
Do LMS deliver	None	No econo	omic benefits presented.					
experience (e.g times, increase	npact on traveller reduced travel sed demands, nfort, improved	Partial	Reduced flows through residential areas, improved safety, increased cycle usage.					
Is there evidence modal choice?	e LMS impact on	Partial		in cycle usage although quest direct result of scheme.	ionable as to whether			

Scheme Details

How do LMS impact on the environment (including carbon)?	Partial	Air quality investigated, no change as result of scheme.					
How do LMS impact on the local economy?	Partial	Scheme potentially held local employment level during economic downturn					
How do LMS have an impact on local bus operations?	None						
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	None	No pre-scheme forecasts in report					
What are the reasons for the differences between forecast and outturn impacts?	None	No pre-scheme forecasts in report					
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?		Objectives needed to understand main aims of scheme.					
What lessons can be learnt to improve LMS evaluation?		Journey time analysis and traffic model predictions required.					
Potential for stakeholder engagement?		eme going over budget. ne affected employment levels five years on?					
	_	luation Supporting Evidence					
	Data provided -	- traffic flows, cycle flows, accident numbers, air quality.					
Pre Construction Good range of ATC sites and accident locations, air quality sites quite scheme so of limited use. No journey time analysis or traffic model pred							
Post Opening Data provided – traffic flows, cycle flows, accident numbers, air quality. Good range of ATC sites and accident locations, air quality sites quite fa scheme so of limited use. No journey time analysis.							
Post Opening	scheme so of limited use. No journey time analysis or traffic model predictions. Data provided – traffic flows, cycle flows, accident numbers, air quality. Good range of ATC sites and accident locations, air quality sites quite far from						

		Sc	heme D	Details					
Scheme	Name	M4 Junction 11	and Mere	oak Improvements					
Opening	Date	February 2011							
	Location	Reading							
Mode		Highway							
Location	Description	Semi-rural							
Evaluation Document	on ntation supplied	M4 Junction 11 a	nd Mereo	ak POPE – Full POPE					
	on Time Period	One Year After O	pening (1	8 months accident data)					
Scheme	Description	 A major junction improvement. In summary, the Scheme provides: New four lane signalised gyratory around the previous M4 Junction 11 with two new motorway over bridges and improvements to all 4 motorway slips a dedicated pedestrian / cyclist route across the retained eastern motorway bridge with new footbridge links to the north, east and south a segregated busway across the retained western motorway bridge under bus priority at signal conflict points improvements to the A33 Imperial Way Roundabout (southern approaches) improvements to the Reading International Business Park gyratory replacement of the small A33 Mereoak roundabout on the A33 south of Junction 11 with two signal controlled T junctions increased carriageway capacity to the A33 to the north, ensuring effective tie ins to the existing local highway network a dedicated East to North (B3270 to A33) general traffic link central control from the Reading UTMC control room including full CCTV coverage and variable message signing provision of bus priority linking to Mereoak Lane to serve the future Park & Ride site at Mereoak installation of a scheme of high quality landscaping at this key access portal to the Reading urban area 							
Scheme	Objectives	 new HA Highway Maintenance Depot and Thames Valley Police Compound Deliver a reduction in injury accidents and help meet national and local accident reduction targets. Deliver positive pedestrian/ cyclist facilities forming a Right of Way between the north and south Deliver effective bus priority facilities to support the committed Mereoak Park 							
		 and Ride project located off the A33 to the south as well as local bus services. Provide for a growth in trip demand by all modes arising from major Structure and Local Plan commitments locally – many of these immediately to the north are either occupied or under construction. Remove traffic running through residential areas along Whitley Wood Lane. 							
Scheme Cost Information	Stage → Contributor ↓	Programme E Forecast		Full Approval Forecast	Actual				
ne (DfT	£43.520		£62.046	£62.046				
orn	LA	-		£0.449	£0.449				
Sch	3 rd Parties	-		£3.000	£3.000				
	Total	£43.520		£65.495	£65.495				
Headline Summary key impa (e.g. traffic,	y of Forecast acts	2.8 per annum ac							
safety, environmen economy)	A - (1	Traffic flows; 19% increase in AM peak and 45% in PM peak							
			y for M	eta-Analysis					
Line of Enquiry Depth of evidence presented? Brief description of evidence presented					nted				

Are Local Major Schemes (LMS) delivered on time (and if not why not)?	Comprehensive	No. Scheme opened 11 months late. Construction duration at Full Approval stage was 22 months, actual duration was 33 months. Due to contractor having difficulties maintaining productivity and managing costs.	
Are LMS delivered on budget (and if not why not)?	Comprehensive	Scheme constructed to budget set out at Full Approval Stage.	
How well do LMS deliver stated objectives?	Comprehensive	 Deliver a reduction in injury accidents and help meet national and local accident reduction targets Too early to evaluate Deliver positive pedestrian/ cyclist facilities forming a Right of Way between the north and south - Achieved Deliver effective bus priority facilities to support the committed Mereoak Park and Ride project located off the A33 to the south as well as local bus services Achieved Provide for a growth in trip demand by all modes arising from major Structure and Local Plan commitments locally – many of these immediately to the north are either occupied or under construction Achieved Remove extraneous traffic running through residential areas along Whitley Wood Lane. Limited evidence. 	
What are the main benefits of LMS (and how does this differ by scheme context/type)?	Partial	Improved journey times, traffic flows, as with other LMS.	
Do LMS deliver value for money?	None	Pre-scheme PVB of £378.874m, evaluation period considered too short to assess post-scheme economic benefits.	
How do LMS impact on traveller experience (e.g. reduced travel times, increased demands, improved comfort, improved safety, etc.)?	Comprehensive	Responses from stakeholders confirm that all aspects of traveller experience have been greatly improved.	
Is there evidence LMS impact on modal choice?	Partial	Reduction in NMU's due to school closure. Bus services increased from 28 to 41 over peak periods due to new routes (although it's unclear if this is directly due to improvements). It is hoped more change will occur with future development.	
How do LMS impact on the environment (including carbon)?	Comprehensive	Air quality has reduced due to increased traffic flows as predicted, changes is carbon are negligible.	
How do LMS impact on the local economy?	None	Impact on economy can't be fairly assessed due to economic downturn.	
How do LMS have an impact on local bus operations?	Partial	Bus services have increased due to new services although it's unclear if this is because of scheme. Occupancy on existing route has remained the same.	
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	Full	Forecast vs. Observed for all key indicators.	
What are the reasons for the differences between forecast and outturn impacts?	Partial	Main difference is due to lack of associated development.	
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?	Partial	Lesson learnt on contractor issue in Process Evaluation.	
What lessons can be learnt to improve LMS evaluation?		A post-scheme cost benefit analysis would have been useful in determining the success of the scheme.	
Potential for stakeholder engagement?	Has proposed park + ride been constructed? What progress has been made with development/creation of jobs in local area?		
	Depth of Eval	uation Supporting Evidence	
Pre Construction		ocess evaluation	
Post Opening	Full POPE + Process evaluation Comparison of flows and journey times useful in highlighting main benefits of scheme, however, the absence of post-scheme accident savings and cost benefit analysis limits the reports ability to evaluate the success of the scheme.		

	Scheme Details						
Scheme Name Owen Street Relief Road Scheme					Scheme		
Opening	Date	;	March 2010				
Scheme			Tipton, West Mi	dlands (Ur	ban)		
Mode			Highway	· · ·	•		
Location	Des	cription	otion Urban				
Evaluation			Owen Street Re	elief Road.	Tipton Post Evaluation Report	July 2011	
	Documentation supplied Report evaluating flows, accidents and air quality before and after construction						
		me Period	One Year After		, ,		
Scheme			A new length of highway from Owen Street, passing the West Coast Main Line (WCML) through a new underbridge beneath the railway, to Alexandra Road which allowed the level crossing previously in place to be closed. Park and Ride car park moved north and capacity increased. Rail passenger subway also refurbished. Pedestrians can also access Tipton from the south side of the railway by using footways either side of the new relief road.				
			Relieving con				
			Improve air que				
			Improve gubli		reliability		
Scheme	Obje	ctives			r serious accidents		
	,-		Improve acce				
					egeneration of Tipton Town Ce	entre by removing	
					y barrier down-time.		
Scheme Cost Information	Cor	Stage → ntributor ↓	Programme Forecas		Full Approval Forecast	Actual	
scheme Cos Information	DfT		£8.810)	£18.317m	£22.191m	
i ii	LA		-		£1.400m	£2.297m	
ohe nfo	3 rd	Parties	-		£2.683m	£2.683m	
⊗ =	Tot		£8.810m		£22,400m	£27.171m	
Headline Summar key impa (e.g. traffic, safety, environmen economy)	y of acts	Forecast Actual	Journey times reduced by up 66% in the PM peak Traffic flows at weekday peak times have tripled The scheme hasn't improved PT links in the area or assisted the economic				
coordingy			regeneration of		eta-Analysis		
				ity for ivi	eta-Anarysis		
Line of Er	nquiry	1	Depth of evidence presented?	Brief description of evidence presented			
		Schemes (LMS) (and if not why	Comprehensive	Yes			
	Are LMS delivered on budget (and if not why not)?		Comprehensive	No. No e	explanation given.		
How well do LMS deliver stated objectives?		Comprehensive	Objectives of congestion and access have been met, as ha the potential of serious accidents due to level crossing removider objectives not met.				
What are the main benefits of LMS (and how does this differ by scheme context/type)?		Partial	Journey times improved, traffic flows increased, safety improves, similar to other LMS, economic objectives not me similar to other LMS				
Do LMS deliver value for money?		None		omic benefits presented			
experience	(e.g. crease comf	reduced travel ed demands,	Comprehensive	Traveller	experience considerably impro	oved	

Is there evidence LMS impact on modal choice?	Partial	Pedestrian survey undertaken pre-scheme and post-scheme, no evidence of modal shift.		
How do LMS impact on the environment (including carbon)?	Comprehensive	Air quality investigated, no change as result of scheme		
How do LMS impact on the local economy?	Partial	Scheme has not had economic effect on Tipton		
How do LMS have an impact on local bus operations?	Partial	A bus route was previously re-routed to avoid level crossing, scheme has not encouraged operator to revert back to original route		
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	None	No pre-scheme forecasts in report		
What are the reasons for the differences between forecast and outturn impacts?	None	No pre-scheme forecasts in report		
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?		If one of the objectives is to improve public transport reliability/links early involvement with PT operators should be sort to ensure schemes full benefits are realised. Some sort of modelling/predictions to assess benefits prescheme.		
What lessons can be learnt to improve LMS evaluation?		More emphasis on economic benefits Increased use of car parks must mean that use of Tipton station has increased due to scheme. This point was not raised in report.		
Potential for stakeholder engagement?		eme going over budget. ne affected regeneration five years on?		
		uation Supporting Evidence		
Pre Construction	Data provided – traffic flows, journey times, accident locations, air quality. No pre-scheme predictions included.			
Post Opening	Data provided – traffic flows, journey times, accident locations, air quality. Journey time analysis and traffic flows give concrete proof of improvements due to scheme. Success of elements such as PT and economy a grey area.			

	Scheme Details							
Scheme	Nam	е	A1073 Spalding to Eye Improvement					
Opening	Date	<u> </u>	October 2011	<u> </u>	•			
Scheme			Spalding, Lincolnshire					
Mode			Highway					
Location	Des	cription	Rural					
	Evaluation Documentation supplied Evaluation Study (Report) – Report presents results obtained from a question taken from members of the public along the route and from Stakeholders.							
Evaluation Time Period Available report was produced during construction (November 20 presented the public's and stakeholders perceived benefits of the scheme					(November 2008) and			
Scheme Description			New highway link between north-east Peterborough and Spalding. The previous route (A1073) ran through numerous villages and the cross-section and drainage ditches were considered unsuitable and unsafe for the level/type of traffic using the route. The new route, named the A16 was built to a higher standard and bypassed villages to provide a more reliable route for motorists and to improve the environment within the villages. Upon completion of the new the A1073 was declassified.					
			To assist in the	e sustaina	ble growth of Peterborough			
			To develop a south-east Lir	strategic no ncolnshire i	etwork between Peterborough into the national trunk road ne	etwork.		
			car and reduc	e social ex				
Scheme Objectives			affected by co To support the To safeguard south-east Lir To develop development, environment	ommunity see operation I the food accolnshire a transport safety and sport links Entry st m	life for communities along the everance of the green wheel production, processing and and promote economic develoinfrastructure schemes who local amenity whilst safeguate between Eye, Crowland, Full Approval Forecast 69.800m £10.500m - £80.300	distribution industries in opment in the area nich enhance economic ording the built and natural		
Headline Summar key impa (e.g. traffic,	y of acts	Forecast		d not open	ad at the time of the evaluation	on.		
safety, environment, economy)		The scheme had not opened at the time of the evaluation.						
			Suitabil	ity for M	eta-Analysis			
Line of Er	Line of Enquiry		Depth of evidence presented?	Brief description of evidence presented				
Are Local N delivered of not)?	Are Local Major Schemes (LMS) delivered on time (and if not why not)?		Partial	Approval 35 month		I construction phase was		
Are LMS delivered on budget (and if not why not)?		Partial	Scheme increased massively in budget between Programme Entry and Full Approval. Slight increase between Full Approval and Actual.					

How well do LMS deliver stated objectives?	None			
What are the main benefits of LMS (and how does this differ by scheme context/type)?	None			
Do LMS deliver value for money?	None			
How do LMS impact on traveller experience (e.g. reduced travel times, increased demands, improved comfort, improved safety, etc.)?	None			
Is there evidence LMS impact on modal choice?	None			
How do LMS impact on the environment (including carbon)?	None			
How do LMS impact on the local economy?	None			
How do LMS have an impact on local bus operations?	None			
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	None			
What are the reasons for the differences between forecast and outturn impacts?	None			
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?	None			
What lessons can be learnt to improve LMS evaluation?	None			
Potential for stakeholder engagement?				
	Depth of Evaluation Supporting Evidence			
Pre Construction	None presented			
Post Opening	None presented.			

	Scheme Details							
Scheme	Nam	e	A688 Wheatley	Hill to Bo	wburn Link			
Opening		-	A688 Wheatley Hill to Bowburn Link					
Scheme			County Durham					
Mode	LOCE	ition	Highway					
Location	Des	crintion	Rural					
Evaluation		on parent						
		on supplied	No evaluation s	upplied – 1	page letter from Parish Cour	ncil.		
Evaluation	on Ti	me Period	No evaluation s	upplied – 1	page letter from Parish Cour	ncil.		
Scheme	Desc	cription	section is 2.3km near the A1(M)	n of new 7.3 Bowburn ju ssop Moor	southern section and northern 3m wide single carriageway li unction with the C12a at Cass to the A181 involves the imp carriageway.	nking form the B6291 op Moor. The northern		
			subsequent to development	o mining clo through im	ation and revitalisation of the losures, by attracting industria provements to the road netwo	l and commercial ork.		
Scheme	Ohio	ctives	facilities and o	other propo	cess to the proposed regional sed commercial developmen	t between Bowburn and		
Concinc	Obje	otive3		To remove a substantial volume of heavy good vehicles from unsuitable local roads in residential areas, thereby improving road safety and environmental				
			To complete the Principal/Primary Road link between East Durham and the Trunk Road A19 with the Motorway A1(M) at Bowburn, the centre of the county, Bishop Auckland and beyond to the west.					
t t		Stage →	Programme			A 1		
Scheme Cost Information	Cor	ntributor ↓	Forecas		Full Approval Forecast	Actual		
e C ati	DfT	•	£6.241r	n	£10.500m	£10.500m		
Ĕ E	LA		-		£0.930m	£0.930m		
she nfo	3 rd	Parties	-		-	-		
ος =	Tot		£6.241m		£11.430m	£11.430m		
Headline Summary key impa	y of acts	Forecast	None provided					
(e.g. traffic, safety, environmen economy)		Actual	None provided					
			Suitabil	ity for M	eta-Analysis			
Line of Er	nquiry	/	Depth of evidence presented?	Brief des	scription of evidence preser	nted		
	Are Local Major Schemes (LMS) delivered on time (and if not why not)?		Partial	Scheme delivered 2 months late, no explanation given.		xplanation given.		
Are LMS delivered on budget		Comprehensive	Scheme delivered to Full Approval forecast					
How well do LMS deliver stated objectives?		None	No evide	nce presented.				
	ow do	ain benefits of les this differ by /pe)?	None	No evide	nce presented.			
Do LMS del	liver va	alue for money?	None	No evide	nce presented.			

How do LMS impact on traveller experience (e.g. reduced travel times, increased demands, improved comfort, improved safety, etc.)?	None	No evidence presented.
Is there evidence LMS impact on modal choice?	Partial	Letter from PC Clerk suggests an increase in journeys by cycle due the new road/facilities provided by the scheme
How do LMS impact on the environment (including carbon)?	None	No evidence presented.
How do LMS impact on the local economy?	None	No evidence presented.
How do LMS have an impact on local bus operations?	None	No evidence presented.
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	None	No evidence presented.
What are the reasons for the differences between forecast and outturn impacts?	None	No evidence presented.
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?	None	No evidence presented.
What lessons can be learnt to improve LMS evaluation?	None	No evidence presented.
Potential for stakeholder engagement?		
		aluation Supporting Evidence
Pre Construction	No evidence	
Post Opening	No evidence	

	Scheme Details						
Scheme	Nam	е	Metrolink Track R	Renewal &	Blockade		
Opening			12 September 2007 (not clearly mentioned in report, but retrieved from timescales				
			as report suggests	that project	ct delivered on time)		
Scheme Location			Bury and Altrincham Line of the Manchester Metrolink network, Greater Manchester				
Mode			Public Transport				
Location		cription	Conurbation				
Evaluation			Final Summary Re	port			
		on supplied	-				
Evaluation	on II	me Period	One year after		- COlors of the Division of Alteria	ala ana Barana ana dha	
Scheme	Desc	cription		anchester	or 20km of the Bury and Altrind Metrolink network; part of a pla k network		
					tion with Metrolink – particular	ly in terms of ride quality	
Scheme	Ohie	ctives	and reduced no				
Ochlenic	Obje	Clives			ng works (track renewal) in a m	nanner that minimised	
		01-	·		and hence loss of patronage.		
n st	Car	Stage →	Programme E Forecast		Full Approval Forecast	Actual	
Scheme Cost Information	DfT	ntributor ↓	£58.000m		£58.000m	£58.000m	
me .ms	LA		£44.000m		£44.000m	£44.000m	
to.		Parties	£0.000m		£0.000m	£0.000m	
S =	Tot		£102.000r		£102.000m	£102.000m	
lla a alliu a		<u> </u>				21021000111	
Headline Summar key impa (e.g. traffic,	y of acts	Forecast	£200,000 revenue per month on replacement bus service £1.25m revenue loss forecast during blockade £150,000 revenue per month on replacement bus service				
safety, environmen economy)	nt,	Actual	£3.4m revenue loss outturn during blockade				
			Suitabilit	y for Me	ta-Analysis		
Line of Er	nquiry	/	Depth of evidence presented?	Brief description of evidence presented			
		Schemes (LMS) (and if not why	Partial	In various parts of the report it is suggested that the project v delivered on time. However, it is not clearly mentioned in report and the opening day can only be directly extracted fr initial timetables.			
Are LMS delivered on budget (and if not why not)?			Partial	In various parts of the report it is suggested that the project wa delivered on budget. This was also implied by implied by the costs data PDF file provided. However, the actual cost of the project is not clearly mentioned in the report and the costs quote in the costs data file (and quoted above in 'Scheme Cos Information') refer to the wider Metrolink improvements project only part of which is the track renewal and blockade project.			
How well do LMS deliver stated objectives?		Objectives: 1: Comprehensive 2: Comprehensive	only part of which is the track renewal and blockade project. 1: The comparison between the before and after sche household surveys suggest an increase in the level satisfaction with Metrolink of 10% (from 79% to 89%). The against a background of little change in other modes. All aspects of Metrolink's performance have improved; biggest improvement being in smoothness of ride (from 4 to 88%) and noise levels (from 56% to 87%). 2: The full blockade option as opposed to a series of week closures was the preferred option in the both in the preafter scheme household surveys. However, the support this approach was much greater after the scheme complet rising to 62% of responses, compared to an initial 46%. A demand elasticity model was developed to estimate		crease in the level of om 79% to 89%). This is in other modes. Ince have improved; the thness of ride (from 47% to 87%). In the both in the pre and dowever, the support for the scheme completion, and to an initial 46%.		

		achieved. The model estimated a market share for the replacement buses of 56% of existing Metrolink users. However, evidence suggest that only around a quarter (23%, equivalent to 39% of weekly or more frequent users) used the replacement busses at least weekly Also, a time lag of six weeks after the blockade ended has been observed for the demand on the Bury Line to reach the counterfactual (forecasted without project scenario) level, while on the Altrincham Line patronage had not recovered even after several months.
What are the main benefits of LMS (and how does this differ by scheme context/type)?	Comprehensive	Significant increase in satisfaction levels for Metrolink passengers and inhabitants of areas around the Metrolink network. Overall satisfaction from 82% to 93% Frequency from 89% to 93% Reliability from 82% to 90% Cleanliness and comfort from 75% to 84% Safety from 67% to 78% Noise levels from 56% to 87% Smoothness of ride from 47% to 88%
Do LMS deliver value for money?	None	No economic efficiency indicators (BCR, IRR of NPV) provided or evidence on how they have been achieved.
How do LMS impact on traveller experience (e.g. reduced travel times, increased demands, improved comfort, improved safety, etc.)?	Comprehensive	Please see above ('What are the main benefits of LMS (and how does this differ by scheme context/type)?')
Is there evidence LMS impact on modal choice?	Comprehensive	All scenarios were assesses against a counterfactual 'without project' scenario determined by demand forecasting techniques. Ticket sales data (including those of the replacement bus services) suggest a drop of 50% of demand on both lines affected during the blockade period. Rail ticket sales show a dramatic increase on the Altrincham/Navigation Rd to Manchester Piccadilly corridor. Evidence from NCP car parks in central Manchester suggests an extra 1,000 cars per weekday. In terms of alternative modes to used by Metrolink passenger, only around a quarter (23%, equivalent to 39% of weekly or more frequent users) used the replacement busses at least weekly, suggesting that other modes benefitted from the blockade.
How do LMS impact on the environment (including carbon)?	None	
How do LMS impact on the local economy?	None	
How do LMS have an impact on local bus operations?	Partial	
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	Comprehensive	There has been a difference in the forecast level of patronage retention for the bus replacement service (56%) to the observed retention (39%).
What are the reasons for the differences between forecast and outturn impacts?		Pure model calibration that did not consider reductions in frequencies in non-blockaded sections, competition between replacement and commercial buses not detailed enough, penetration of commercial bus routes to city centre, inappropriate modelling of fare reduction; Replacement bus services not visually different to commercial routes;
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?		

What lessons can be learnt to improve LMS evaluation?	The need for a common reference structure that would allow the evaluation approach to be – to some extend – standardised, improve the ability of the reader to compare among projects and make the dissemination of knowledge easier.			
Potential for stakeholder engagement?				
	Depth of Evaluation Supporting Evidence			
Pre Construction	Household surveys along the Bury and Altrincham corridors, within catchments of the 18 Metrolink stops along the corridors increasing from 1km radius for the inner area to 2km radius for the outer area.			
Post Opening	Household surveys along the Bury and Altrincham corridors, within catchments of the 18 Metrolink stops along the corridors increasing from 1km radius for the inner area to 2km radius for the outer area.			

	Scheme Details						
Scheme	Nam						
			Scarborough Integrated Transport Scheme 14 February 2009				
Opening Scheme		·					
Mode	LUCa	lion	Highway	II TOIKSIIIIC	7		
Location	Doc	crintion	Semi-urban				
Evaluation		СПРПОП	Gerrii-drbari				
		on supplied	POPE One Year A	fter Report			
			One year after				
Evaluation Time Period Scheme Description			 A165 Scarborough Lebberston Diversion A165 Park & Ride construction A64 Park & Ride construction Extension and upgrade of the Urban Traffic Control System in Scarborough Introduction of bus priority measures on the A64 and A165 approaches to Scarborough. (evaluation report provided focuses on first three aspects of project) 				
Scheme	Obje	ctives	reduce the traffireduce the num	ic congestion ber and se aprovemen	on on the southern approach verity of road traffic casualtie t in the environment for reside	to Scarborough s	
Scheme Cost Information		Stage → htributor ↓	Programme E Forecast		Full Approval Forecast	Actual	
ne (DfT		£26.895m		£29.786m	£29.786m	
orr	LA		£0.000m		£0.750m	£5.506m	
L Sch		Parties	£0.000m		£0.000m	£0.000m	
0 ,	Tota	al	£26.895m		£30.536m	£35.292m	
Summar key impa (e.g. traffic, safety,	Summary of key impacts (e.g. traffic, safety, environment Actual • Les		Less people annoyed by noise and improved air quality.				
coonomy)			Suitabilit	y for Me	ta-Analysis		
Line of E	nquiry	,	Depth of evidence presented?	Brief description of evidence presented			
	,	Schemes (LMS) (and if not why	None	No evidence provided about the scheme planned oper Also, actual opening date reported differs to the one pre in the project costs file.		fers to the one presented	
Are LMS delivered on budget (and if not why not)?		Partial	Evidence from the projects costs file suggests that the been an increase in costs between the programme entry a full approval forecast and between the later and the delivery cost.		programme entry and the		
How well do LMS deliver stated objectives?		Objectives 1: Comprehensive 2: Comprehensive 3: Partial 4: Partial	delivery cost. 1: Traffic on the A165 Filey Road reduced by 76% opening of the A165 diversion road compared to before. Traffic on the A64 reduced by 15%. Due data, the after scheme traffic levels on the A64 Sea and the A165 Filey Road (South) were compared levels two years prior to the scheme opening show reduction and 75% reduction respectively. Similar of for the A170 Stepney Hill revealed inconclusive dafluctuation. 2: Accident rates on the major roads into Scarboroug a marginal increase after the scheme constructio average of 42 per year in the 4-year period lead project opening to 44 accidents in the year after the 3: No data on local air quality improvement.		ad compared to the year by 15%. Due to lack of on the A64 Seamer Road were compared to traffic e opening showing 1-15% tively. Similar comparison inconclusive data due to into Scarborough suggest the construction from an ear period leading to the ne year after the opening.		

		Comparison of noise levels in 6 locations before and after the scheme suggests reduction in noise level in 5 of them and marginal increase in one. 4: Bus routes serving the park and ride facilities have had an increase in patronage compared to the year prior to the		
What are the main benefits of LMS (and how does this differ by scheme context/type)?		scheme opening.		
Do LMS deliver value for money?	None	Outturn TEE calculation to be undertaken at five year after opening stage.		
How do LMS impact on traveller experience (e.g. reduced travel times, increased demands, improved comfort, improved safety, etc.)?		. 0		
Is there evidence LMS impact on modal choice?	Partial	There has been no specific modal choice specific part of the report, however, the use of the park and ride facilities and the bus routes that serve them implies some shift from car into PT usage.		
How do LMS impact on the environment (including carbon)?	Partial	The project is expected to improve the local air quality in 833 properties and deteriorate it in 375. It is also expected to result in 69 fewer people being annoyed by noise levels. Finally, it is expected to create an extra 39 tonnes of CO2 per year.		
How do LMS impact on the local economy?	None			
How do LMS have an impact on local bus operations?	Partial	It is suggested that the patronage of some bus services has increased as a result of the scheme.		
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	None	It is suggested that the assessment of the forecasts, using data collected after the scheme will be considered as part of the 'Five-Year After' study.		
What are the reasons for the differences between forecast and outturn impacts?	N/A			
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?				
What lessons can be learnt to improve LMS evaluation?		The importance of knowing in advance the data required to assess the scheme's objectives and planning the correct timing and location to collect them so as to maximise the potential of attributing any potential changes to the scheme.		
Potential for stakeholder engagement?				
	Depth of Evalu	uation Supporting Evidence		
Pre Construction	ATCs on 5 sites around Scarborough Accidents data on 4 key routes into Scarborough Bus patronage data on the park and ride routes Noise surveys in 6 locations around scheme			
Post Opening	ATCs on 5 sites around Scarborough Accidents data on 4 key routes into Scarborough Bus patronage data on the park and ride routes Noise surveys in 6 locations around scheme			

Scheme Details						
Scheme Name			Tunstall Northern Bypass			
Opening Date		July 2008				
Scheme			North of Tunstall, City of Stoke-on-Trent, Staffordshire, West Midlands			
Mode			Highway			
Location Description			Semi-urban			
Evaluation			Defere and After D	t		
Docume	ntatio	on supplied	Before and After R	eport		
		me Period	One year after			
Scheme	Desc	cription	Single carriageway road extending from the existing roundabout on the A50 High Street at Sandyford for 0.8km to a new roundabout, then separated to two links until St Michael's Road. The scheme provides bus priority measures to St. Michel's Road and a shared use pedestrian cycle path along it.			
Scheme Objectives		 To complete a strategic link (part of which has already been constructed as the Tunstall Western Bypass) from the A527 to the A50, A500 trunk road and thence the M6 motorway. To relieve the overloaded A5271 and A50 strategic routes in the Tunstall area and, in particular, relieve Tunstall town centre from the effects of heavy through traffic. To allow pedestrian, traffic management and bus priority improvements in Tunstall. To reduce accidents on the existing highway network. To improve access to industrial areas. To improve and allow access to proposed industrial and residential sites identified in the City Plan to the north of Tunstall. To provide measures to encourage cycling and improve public transport to the 				
		Stage →	north of the City. Programme Entry Full Approval Forcest			
ost on	Cor	otage →	Forecast		Full Approval Forecast	Actual
Scheme Cost Information	DfT		£2.640m		£3.127m	£6.057m
me Lux	LA		£4.090m		£4.542m	£4.463m
ihe	3 rd Parties		£0.000m		£0.000m	£2.183m
် မ	Tota		£6.730m		£7.669m	£12.703m
Headline Summary key impa (e.g. traffic, safety, environmen	y of icts	Forecast		ic through ⁻ rney time s	Funstall town centre	
economy)	-,					
			Suitabilit	y for Me	ta-Analysis	
Line of Er	nquiry	,	Depth of evidence presented?	evidence Brief description of evidence presented		ited
Are Local Major Schemes (LMS) delivered on time (and if not why not)?			None	No indication of planned opening date.		
Are LMS delivered on budget (and if not why not)?			Comprehensive	Scheme cost information suggests that actual cost was 88% higher than the programme entry cost forecast and 66% higher than the full approval forecast cost. (It is assumed that the cost quoted as in constant prices, as there are projects in the list for which no change in costs has been applied).		
How well do LMS deliver stated objectives?			Objectives 1: Comprehensive 2: Comprehensive 3: Comprehensive 4: Partial 5/6/7: None	1: This is a project output. 2: Analysis of the available traffic flow data suggests that the		

		4: Numbers of accidents and casualties by severity have decreased after the scheme implementation by an average of 19.2% across all accidents and 16.6% across all casualties. However, the after scheme data are based on one year only and do not allow for trend identification. It is also suggested in the report that an overall downwards trend in accident is apparent in the wider Stoke-on-Trent area.		
What are the main benefits of LMS (and how does this differ by scheme context/type)?	Traffic rerouting: comprehensive Journey time savings: comprehensive Safety savings: partial	 See objective 1 above ('How well do LMS deliver stated objectives?') Journey time surveys on a north-south direction were conducted before and after the scheme, on three different routes (the third being the new link added) both for the peak and the off-peak traffic. The third option was faster between 8% and 27% in most cases with the exception of the south-bound direction in the am peak which was 21.9% slower when compared to alternative 1 and 5.9% slower when compared to alternative two. See objective 4 above (How well do LMS deliver stated objectives?) 		
Do LMS deliver value for money?	None	No economic efficiency indicators (BCR,IRR of NPV) provided		
How do LMS impact on traveller experience (e.g. reduced travel times, increased demands, improved comfort, improved safety, etc.)?				
Is there evidence LMS impact on modal choice?	None			
How do LMS impact on the environment (including carbon)?	None			
How do LMS impact on the local economy?	None			
How do LMS have an impact on local bus operations?	None			
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	None	No forecasts have been provided.		
What are the reasons for the differences between forecast and outturn impacts?	N/A			
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?	None			
What lessons can be learnt to improve LMS evaluation?		Set objectives that can be measured.		
Potential for stakeholder engagement?	a) Is a post 5 years	s evaluation report to be produced for this project?		
		ation Supporting Evidence		
Pre Construction	ATC & MTC Journey time surveys using a moving car Accident data			
Post Opening	ATC & MTC Journey time surveys using a moving car Accident data			

	Scheme Details					
Scheme Name			Walsall Town Cer	ntre Trans	port Package	
Opening Date			24 May 2009		3.	
Scheme Location			Walsall, West Midlands			
Mode			Integrated Transpo	ort Package	9	
Location	Des	cription	Urban			
Evaluation			Project evaluation	report, cov	ering letter, App A development	plan, App B One year
Docume	ntatio	on supplied	After Study	•		
Evaluation	on Ti	me Period	One year after			
Scheme Description		 Capacity improvements to the ring road to remove existing bottlenecks; Introduction of additional UTC facilities at key junctions to assist in coordinating traffic flows and to facilitate bus priority measures; New bus priority measures linked to junction improvements, including bus gates, SVD, bus only links and additional bus lanes; Improved access to regeneration sites; Access restrictions for private vehicles within the town centre; and 			ssist in coordinating , including bus gates,	
Scheme Objectives		 Enhance Walsall town centre as a place to work, live and visit for shopping, leisure and cultural activities; Assist in achieving economic regeneration and the vitality of the town centre; Improve access to the town centre for public transport, cyclists and pedestrians; Maintain access to the town centre for car borne visitors and goods vehicles; Facilitate removal of the remaining through traffic from the town centre; Facilitate access to development sites adjacent to the ring road; Safeguard the operation of the strategic highway network; Reduce accidents on the highway network; Reduce rat-running on inappropriate routes and to improve the environment for local communities; and Enhance the visual appearance of the ring road corridor. Improve environmental conditions Reduce severance & enabling greater mode integration Reduce accidents – both in terms of occurrence and severity Improve travel conditions Support regeneration 				
- it		Stage →	Programme E		Full Approval Forecast	Actual
Scheme Cost Information		ntributor ↓	Forecast			
ne (DfT		£11.000m	1	£21.225m	£21.225m
orr	LA		£0.000m		£0.000m	£3.307m
)ch Inf		Parties	£0.000m		£0.000m	£0.104m
0,	Tota	al	£11.000m		£21.225m	£24.636m
Headline Summary of key impacts (e.g. traffic, safety, environment, economy)		Forecast Actual	Benefits worth £142.9m against costs worth £20.9m and a BCR equal to 6.8 Benefits worth £78.9m against costs worth £20.9m and a BCR equal to 3.78			
	Suitability for Meta-Analysis					
Line of Er	nquiry	1	Depth of evidence presented presented?			
Are Local Major Schemes (LMS) delivered on time (and if not why not)?		The construction period lasted 152 weeks, an overrun of 51 days from initial plans. The reasons for this delay were: • The performance of statutory undertakers • The ground conditions being worse that the site investigation had indicated			kers	

		 The weather conditions, indirectly affecting the scheme by calling away statutory undertakers for emergency repairs The change in design for the new road-over-rail bridge that Network Rail imposed.
Are LMS delivered on budget (and if not why not)?	Partial	There has been a significant increase in the cost between all stages of the cost. There is a contradiction between the evaluation report and the cost data file in that the latter quotes a final total cost, but the report reads "Final project costs are not yet known". One of the reasons quoted for the cost uplift is the elapse of 13 months between the tender and the announcement of the funding which meant that the preferred bidder required inflationary cost uplift.
How well do LMS deliver stated objectives?	Objectives 1: None 2: None 3: None 4: None 5: None 6: None 7: None 8: Partial 9: None 10: None	All the objectives are listed and each one is accompanied by a short comment. The comment is generally a statement that confirms the achievement of the objective. However, no evidence is provided to support the statement. The accident reduction objective (objective 8) is an exception to the above, as some evidence is provided to support accident reduction after the scheme opening.
What are the main benefits of LMS (and how does this differ by scheme context/type)?	None	The main expected benefits of the scheme are savings in travel time and accidents.
Do LMS deliver value for money?	Comprehensive	The predicted economic benefits of the scheme resulted in a BCR equal to 6.85. After scheme analysis of outturn benefits suggest that the BCR needs to be adjusted to 3.78. The latter is based on the forecasted costs, as the actual, outturn costs were unknown at the time of the report.
How do LMS impact on traveller experience (e.g. reduced travel times, increased demands, improved comfort, improved safety, etc.)?	None	There is no observed evidence prior to the scheme opening. It is therefore not possible to assess the impact of the scheme on the traveller experience.
Is there evidence LMS impact on modal choice?	None	
How do LMS impact on the environment (including carbon)?	None	
How do LMS impact on the local economy?	Partial	A number of development projects in the vicinity of the project have taken place. However, it is unclear whether the completion of the project had a direct effect on their realisation.
How do LMS have an impact on local bus operations?	None	
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	Comprehensive	Outturn travel time benefits were 53% of the predicted benefits.
What are the reasons for the differences between forecast and outturn impacts?	Comprehensive	Two reasons were provided for the above difference: The general economic downturn that generally suppressed demand. The fact that the after scheme surveys took place just after a month of the scheme opening, implying that some of the regular users have not re-routed their trips away from the alternatives and into the scheme.
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?	Comprehensive	The authors of the report have put significant effort in identifying lessons that can be learnt from their experience, regarding the form of the contract, the methods of payment (engage staff with accounting background), the handling of underground services

	(use of ground radar), the timing of the DfT releasing, the cooperation with statutory undertakers (use incentives in contracts, and control costs), the involvement of Network Rail.
What lessons can be learnt to improve LMS evaluation?	There should be a clear focus on a data based approach that can be used to directly attribute observed outcomes/impacts to the project. It should be clarified that both a before and an after project data collection exercise in needed as part of this process.
Potential for stakeholder engagement?	
	Depth of Evaluation Supporting Evidence
Pre Construction	No additional information was provided on the source of the accident data or the area which was considered in the analysis. Other data used in the forecast were based on an earlier transport model of the area.
Post Opening	No additional information was provided on the source of the accident data or the area which was considered in the analysis. Turning counts and journey times surveys

	Scheme Details					
Scheme Name		Weymouth Trans	port Packa	age for the 2012 Games		
Opening Date		26 July 2011				
Scheme Location			Weymouth/ Dorchester area, Dorset, South West			
Mode			Integrated Transpo	ort Package)	
Location	Location Description		Semi-urban			
Evaluation			One year after eva	luation ren	ort	
		on supplied	-	idation rep	O11	
Evaluation	on Ti	me Period	One year after			
Scheme Description		 Traffic Management Improvements Junction Improvements in King Street Corridor. Junction Improvements in Boothill Corridor and at Portland Road/Wyke Road. Urban Traffic Management Control in the two improvement corridors to achieve: 1) Bus priorities, 2) Increased capacity and reduced delays/queue lengths for all traffic Local Traffic Regulation Orders to effect Turning bans at critical locations Removal of on-street parking at critical locations Bus Service Improvements Fleet renewal for Weymouth town centre services Bus/rail Interchange Bus/rail interchange at Weymouth Central Station in King Street 				
Scheme Objectives		 To relieve or reduce traffic congestion in Weymouth town centre and between Weymouth and Portland focussing on the King Street and Boothill corridors where the impact of congestion is most significant. To achieve a step change in the quality of public transport services in Weymouth through the introduction of better traffic management and user information and improvements to the quality and age of the bus fleet. To improve the interchange facilities at Weymouth railway station to ensure that it operates as a multi-modal interchange and becomes the focus of the public transport network in Weymouth. N/A 				
ost on	Con	Stage →	Programme Entry Forecast		Full Approval Forecast	Actual
Scheme Cost Information	DfT		Scheme went dire		£9.068m	£9.068m
me rm:	LA		approval stage in	•	£1.560m	£1.560m
she of		Parties	Olympics time		£0.000m	£0.000m
<u>-</u> ي	Tota			£10.628m	£10.628m	
	100	41	Not available		2101020111	2.0.0_0
Headline Summar	y of	Forecast	Not available			
key impacts (e.g. traffic, safety, environment, economy)		Actual	 A 26% reduction in average journey time per mile through the corridor A 28% improvement in journey time reliability A general reduction in the level of NO2 No improvement to bus punctuality and reliability. An increase in the average age of the bus fleet Bus service to the Railway Station has not yet been implemented 			
			Suitabilit	y for Me	ta-Analysis	
Line of Er	Line of Enquiry		Depth of evidence presented?		scription of evidence presen	nted
Are Local Major Schemes (LMS) delivered on time (and if not why not)?		Comprehensive				
Are LMS delivered on budget (and if not why not)?		Comprehensive	Yes. Actual spend (£9.34m) less than planned spend (£9.76m). However, costs quoted in report differ to those provided in accompanying costs data file			

		<u> </u>
How well do LMS deliver stated objectives?	Objectives 1: Comprehensive 2: Comprehensive 3: None	 Traffic counts before and after the scheme were provided; Boot Hill corridor AADT has decreased by 5,200 suggest and King Street corridor AADT by 5400. An aggregated value for the traffic through the city centre was not provided. The total of the before and after scheme traffic at the sites surveyed suggests an increase in the AADT by 5,200. The step change in PT quality was defined as improved bus punctuality and reliability, enhanced satisfaction levels from bus services and reduction in average age of fleet. Data suggest that the project failed to deliver all aspects of the objective, with the exception of bus stops and raised kerbs for which satisfaction levels met targets. The Major Scheme Bid only included the facilitation of the access to and from the rail station. Further funds needed to upgrade the interchange facilities at the station were not found and the scheme did not move forward.
What are the main benefits of LMS (and how does this differ by scheme context/type)?	Bus punctuality and reliability Bus quality Journey time and reliability Air quality Road safety (comprehensive in all cases)	 Bus punctuality and reliability: the project has ended up in disbenefits in terms of bus punctuality. It is mentioned however, that the after scheme surveys were undertaken in a week of heavy rain and flooding. Bus quality: there is a mixed performance in terms of bus quality, with the overall level of services improving but not meeting the set target and individual aspects both improving and deteriorating. Average age of fleet has increased. Journey time and reliability: there has been a 26.6% reduction in average journey time per mile against a target of 10% reduction and 28.1% reduction in standard deviation of journey time against a target of 20%. Air quality: there has a significant reduction in the levels of NO2 at both Boot Hill and King Street corridors, to 38.9 and 26.5 µg/m3 from 49.6 and 35.5 µg/m3 respectively. Road safety: an average of 2.4 casualties per year is saved due to scheme (from 9.4 to 7 casualties annually). However, the after scheme data are only based on one year, not allowing for a robust analysis and identification of long term trends.
Do LMS deliver value for money?	None	No economic efficiency indicators (BCR,IRR of NPV) provided
How do LMS impact on traveller experience (e.g. reduced travel times, increased demands, improved comfort, improved safety, etc.)?	Travel time Increased demand Improved comfort Improved safety (comprehensive in all cases)	Travel time
Is there evidence LMS impact on modal choice?	None	
How do LMS impact on the environment (including carbon)?	Yes	Pre and post opening air quality measurements.
How do LMS impact on the local economy?	None	
How do LMS have an impact on local bus operations?	Comprehensive / Partial	The scheme aimed to improve PT provision and quality. However, evidence presented (see What are the main benefits of LMS section above) suggest that it has failed to do so. Reduced journey times through the corridors of intervention will most likely have had an impact on bus operations. However, specific impacts are not reported as such.
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	Travel demand: Comprehensive Others: None	The aggregate traffic forecast has overestimated traffic by 3%. However, there is significant variance in the difference between observed and forecasted traffic on a link based approach, ranging from -56% to +31%

What are the reasons for the differences between forecast and outturn impacts?	Comprehensive	Economic downturn A proposed development of 384 apartments was not completed at the time of the surveys. Further reasons are provided for the difference in traffic at individual links	
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?			
What lessons can be learnt to improve LMS evaluation?	In some cases there was no obvious logical link between scheme outputs and the intended objectives (e.g. fleet again some cases, it was difficult to attribute the observed choto the scheme directly (e.g. bus stops / raised kerbs who surveys were not restricted to scheme location)		
Potential for stakeholder engagement?	a) When is the further "two-Year-After" assessment set for 2013/4 planned to be undertaken?b) If the promoters of the scheme could explain why they expected the scheme to result in reduction in the bus fleet age?		
	Depth of Evalu	ation Supporting Evidence	
Pre Construction	 Low Season On-Bus Tracker Surveys 2005 & High Season Punctuality Surveys 2008 Bus Quality Resident Bus Service Satisfaction Survey 2008 & Weymouth Bus Fleet Age Profile Continuous ANPR Data King Street and Boot Hill Corridors 2009 Air Quality Annual NO2 Monitoring Surveys Pedestrian Safety Annual Casualty Data ATC 		
Post Opening	As above with exception of bus reliability being based on surveys for Local Transport Plan rather than On-BusTracker Surveys.		

	Scheme Details					
Scheme	Nam	е	Brierley Hill Sustainable Access Network (BHSAN)			
Opening	Date		October 2008 (sourced from cost data file)			
Scheme Location			Brierley Hill, Borough of Dudley, West Midlands			
Mode			Highway			
Location Description			Urban			
Evaluation			0.1			
Docume	ntatio	on supplied	Scheme evaluation	report and	d appendix	
		me Period	Data reported is 20	009 so assi	umed less than 1 year post op	pening
Scheme Description			A new parallel route to the old High Street and 11 signalised junctions (2 upgrades, and 9 brand new installations). Unclear whether this is the full scheme as this was collated from a number of sections within the evaluation report.			
Scheme Objectives		 Improve access Improve environmental conditions Reduce severance & enable greater mode integration Reduce accidents – both in terms of occurrence and severity Improve travel conditions Support regeneration 			verity	
ost	Cor	Stage → ntributor ↓	Programme E Forecast	•	Full Approval Forecast	Actual
Scheme Cost Information	DfT	· · · · · · · · · · · · · · · · · · ·	£17.370m		£20.320m	£20.320m
ı ğ	LA		£6.940m		£7.100m	£3.000m
she ofr		Parties	£0.000m		£0.000m	£4.100m
<u>-</u> ق	Tot		£24.310m	<u> </u>	£27.420m	£27.420m
Summar key impa	* '		As above		ed 2005 and 2009 data used.	
economy)	ιτ,		Suitability for Meta-Analysis			
				,	,	
Line of E	nquiry	/	Depth of evidence presented?		scription of evidence presen	
		Schemes (LMS) (and if not why	None	Evidence from the projects costs file suggests that the project was delivered with two months delay compared to the revised schedule of the Full Approval forecast, but no further evidence to support this is provided in the evaluation report.		
Are LMS delivered on budget (and if not why not)?			Partial	Evidence from the projects costs file suggests that there had been an increase in costs between the programme entry and the full approval forecast and that after that the project has been delivered on budget. However, no evidence to support this		
How well do LMS deliver stated objectives?			Objectives 1: Comprehensive 2: Comprehensive 3: None 4: Comprehensive 5: Comprehensive 6: Partial	provided in the evaluation report. 1: ATCs have shown that the main High Street running pa to Venture Way has seen a 34% reduction in the AM peak 43% reduction in the PM peak traffic post completion of BHSAN. Similarly, the High Street, Mill Street, Moor St Cottage Street junction has seen a reduction of 37% in the AM and 39% in the PM Peak. 2: Air Quality Management Area data have shown around area of the scheme have shown that the limit of 40µg/n NO2 has been exceeded in various location prior to scheme opening. After BHSAN results have indicated the scheme opening.		uction in the AM peak and ic post completion of the Mill Street, Moor Street, reduction of 37% in traffic have shown around the at the limit of 40µg/m3 of the location prior to the results have indicated by at all locations with only g the air quality objective.

		 9 serious. Post construction monitoring shows that for the three years after BHSAN, accidents have significantly dropped to 48 of which 45 were slight and 3 serious, an overall 40% reduction in the total injury accidents. 5: Journey time analysis took place on the key route from The Boulevard roundabout near Merry Hill Shopping Centre along Mill Street, High Street and Dudley Road to Waterfront Way. The soundbound direction show an improvement of journey time of 15 sec in the AM and 32 sec in the PM peak. On the contrary, the northbound direction is faced with slight increases in journey time in both peaks. Neutral 3 month period taken for monitoring in both periods. 6: Some investment into the local area has taken place but it is unclear how it is connected to the BHSAN scheme. Please below ('How do LMS impact on the local economy?') 		
What are the main benefits of LMS (and how does this differ by scheme context/type)?	Comprehensive	Rerouting of traffic, improvement of local air quality and reduction in accidents around the scheme. Please see above ('How well do LMS deliver stated objectives?')		
Do LMS deliver value for money?	None	No economic efficiency indicators (BCR, IRR of NPV) provided or evidence on how they have been achieved.		
How do LMS impact on traveller experience (e.g. reduced travel times, increased demands, improved comfort, improved safety, etc.)?	Travel time: Comprehensive Safety: Comprehensive	Please see above ('How well do LMS deliver stated objectives?')		
Is there evidence LMS impact on modal choice?	None			
How do LMS impact on the environment (including carbon)?	None			
How do LMS impact on the local economy?	Partial	Investments in local economy (Brierley Hill Health & Social Care Centre, Stourbridge College Art & Design Centre - Brierley Hill Campus, Higgs & Sons Solicitors move to Brierley Hill)		
How do LMS have an impact on local bus operations?	None			
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	None	No forecasts have been provided.		
What are the reasons for the differences between forecast and outturn impacts?	N/A			
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?	None			
What lessons can be learnt to improve LMS evaluation?		An attempt should be made to establish some sort of causal relationship between observed changes (especially in the wider economy) to the scheme itself.		
Potential for stakeholder engagement?				
		ation Supporting Evidence		
Pre Construction	Journey time logge Air Quality Manage SPECTUM accider	at-e-gis Congestion database ers fitted onboard buses ement Area monitoring stations nt database		
Post Opening	ATC flow survey West Midlands Strat-e-gis Congestion database Journey time loggers fitted onboard buses Air Quality Management Area monitoring stations SPECTUM accident database			

	Scheme Details						
Scheme	Nam	е	A158 Burgh Le Marsh Bypass				
Opening	Date	<u> </u>	November 2007		•		
Scheme			Burgh Le Marsh, Lincolnshire				
Mode			Highway	<i>,</i>			
Location	Des	cription	Rural				
Evaluation		<u>p</u>		Marsh Bvp	ass Evaluation and Monitorin	ng Report – Report presents	
		on supplied			estionnaire taken from memb		
			route and from S	Stakeholde	rs.		
Evaluation	on Ti	me Period	One Year After	Opening			
Scheme	Desc	cription	Lincolnshire and	d Škegnes:		of Burgh Le Marsh between move unsuitable HGV traffic	
					erance, noise, air pollution an is in Burgh Le Marsh;	d vibration; enhance general	
			 Aid tourism are remoteness a 		ation in the Lincolnshire coas rally;	stal area, reduce issues of	
Scheme	Obje	ctives	Positive contr conditions on			nproved walking and cycling	
			 Reduce journey times and improve journey time reliability; Reduce the number of accidents and causalities; Support the safeguarding of the food production, processing and distribution industries in eastern Lincolnshire. 				
Scheme Cost Information	Cor	Stage → ntributor ↓	Programme Entry Forecast		Full Approval Forecast	Actual	
e C nati	DfT	•	£7.18m		£13.575m	£12.939m	
em	LA		-		£1.50m	£1.413m	
ufc che	3 rd I	Parties	-	-		£0.050m	
<i>s</i> –	Tota	al	£13.2m		£15.075m	£14.402m	
Headline Summary key impa	y of	Forecast	Evaluation report comprises of results based on responses from a questionnaire taken from members of the public and stakeholders post-scheme. No factual data for safety, journey times etc available in evaluation report.				
(e.g. traffic, safety, environmen economy)	ıt,	Actual	Evaluation report comprises of results based on responses from a que taken from members of the public and stakeholders post-scheme. No factusafety, journey times etc available in evaluation report.				
			Suitab	ility for I	Meta-Analysis		
Line of Er	nquiry	1	Depth of evidence presented?	Brief description of evidence presented			
	Are Local Major Schemes (LMS) delivered on time (and if not why not)?		None	Evidence from the projects costs file suggests that the project was delivered one month early delay compared to the Full Approval forecast, but no further evidence to support this is provided in the evaluation report			
Are LMS delivered on budget (and if not why not)?		Comprehensive	Scheme delivered under budget.				
How well d objectives?	How well do LMS deliver stated objectives?		Partial	Based on responses to questionnaire the scheme seems to have delivered its objectives. However there is no factual data to back up these responses.			
	ow do	ain benefits of es this differ by pe)?	Partial	The trans	of er of approximately 80% of the village.	traffic onto the new A158	
Do LMS del	liver va	alue for money?	None	No factua	al data available for comparis	on.	

How do LMS impact on traveller experience (e.g. reduced travel times, increased demands, improved comfort, improved safety, etc.)?	Partial	Responses from questionnaire signal that the scheme has greatly improved conditions in the village for locals.
Is there evidence LMS impact on modal choice?	None	No evidence of modal shift presented in report
How do LMS impact on the environment (including carbon)?	None	
How do LMS impact on the local economy?	None	
How do LMS have an impact on local bus operations?	None	
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	None	
What are the reasons for the differences between forecast and outturn impacts?	None	
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?	None	More emphasis on economic benefits
What lessons can be learnt to improve LMS evaluation?	Comprehensive / Partial / None	Stakeholder engagement should be enhanced with quantitative data to improve the usefulness of the evaluation.
Potential for stakeholder engagement?		
		aluation Supporting Evidence
Pre Construction	Stakeholder en scheme.	gagement, including a questionnaire taken over three days post-
Post Opening	Stakeholder en scheme.	gagement, including a questionnaire taken over three days post-

	Scheme Details						
Scheme	Nam	е	A628 Cudworth a	nd West G	reen Bypass		
Opening	Date)	05 July 2010				
Scheme Location			Between Shafton and Cudworth and Cudworth and Carlton in Metropolitan Borough of Barnsley, South Yorkshire				
Mode			Highway				
Location Description			Semi-urban				
Evaluation	on		0 1/ 1/4				
Docume	ntatio	on supplied	One Year After report				
Evaluation	on Ti	me Period	One year after				
Scheme	Desc	cription	Cudworth and West Green bypass comprises a 5.2km single carriageway road with new road & rail bridges, 5 roundabouts, 3 underpasses, 3.6km of footway/cycle way, 2km of footway, 2.4km of bridleway & major drainage works to minimize flooding and the effect on the local environment.				
Scheme	Scheme Objectives		 Remove through traffic from Cudworth centre Improve the reliability of public transport Improve public transport provision and encourage its greater use Assist regeneration in the area, including the former Grimethorpe and Houghto Main Collieries Improve access for development sites to the strategic transport network 				
Scheme Cost Information	Cor	Stage → ntributor ↓	Programme E Forecast		Full Approval Forecast	Actual	
scheme Cos Information	DfT		£17,198m)	£20,209m	£20,209	
em	LA		£0		£0	£1,446	
r Ch	3 rd I	Parties	£0		£0	£0	
<i>ω</i> –	Tota	al	£17,198m)	£21	£21,655	
Headline Summary key impa (e.g. traffic, safety,	y of acts	Forecast	Improved Transit times (vehicle hours) Reduced severance for villages of Cudworth and West Green Savings in Accidents Improved Transit times (vehicle hours)				
environmen economy)	nt,	Actual	10.Reduced severance for villages of Cudworth and West Green 11.No savings in Accidents				
			Suitabilit	y for Me	ta-Analysis		
Line of Er	nquiry	1	Depth of evidence presented?	Brief description of evidence presented			
Are Local N delivered or not)?	Major S n time	Schemes (LMS) (and if not why	None	Initial timescale not provided. Only opening day mentioned.			
Are LMS (and if not w		red on budget t)?	Partial	In the Economic Efficiency Table, it is mentioned that revisions of costs were needed as works were delivered w budget.			
How well do LMS deliver stated objectives?		Objectives 1: Comprehensive 2: Partial 3: None 4: None 5: Partial	Traffic counts before and after the scheme sugge reduction of traffic through Cudworth centre, from 10-15 vehicles per day down to approximately 5,300. Based on ex post data only, the analysis compares jou time via two sets of two different routes. The options via scheme yield savings. It is then assumed that this resul increased reliability of PT journey time. S: As in 2, assuming this is the route to the strategic netwo		n centre, from 10-15,000 ely 5,300. alysis compares journey ites. The options via the umed that this results in e. o the strategic network.		
What are the main benefits of LMS (and how does this differ by scheme context/type)?			Comprehensive	5: As in 2, assuming this is the route to the strategic network Monetised values of scheme benefits (in 2002 values & price Travel time savings: £183m VOC savings: £33m			

Do LMS deliver value for money?	Comprehensive	Economic Efficiency Table provided; forecasted BCR: 3.58, revised forecast BCR: 3.13, post opening forecast BCR: 3.05	
How do LMS impact on traveller experience (e.g. reduced travel times, increased demands, improved comfort, improved safety, etc.)?	Travel time: Comprehensive Safety: comprehensive Other: None	Travel time: Based on ex post comparing journey time via two sets of two different routes. The options via the scheme yield savings. Safety: The number of PIA has remained unchanged but it is suggested that the rates (PIA/mvkm) have decreased because of extra traffic on the extended road network.	
Is there evidence LMS impact on modal choice?	None	No evidence	
How do LMS impact on the environment (including carbon)?	Noise: Partial Local air quality: Partial CO2: Partial	Noise: number of people annoyed before and after scheme, 621 and 467 respectively. (forecast) Local air quality with scheme: number of dwellings experiencing better air quality: 1,683; number of dwellings experiencing worse air quality: 180; (forecast) CO2 savings: 204,261 tonnes in appraisal period (forecast)	
How do LMS impact on the local economy?	None	No evidence	
How do LMS have an impact on local bus operations?	None	No evidence	
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	Safety: Comprehensive Other: None	Safety impacts similar to forecast.	
What are the reasons for the differences between forecast and outturn impacts?	Travel demand: Partial Safety: Partial	Travel demand: 1) the transfer of traffic to the bypass has been slow; 2) a major local business user has not adjusted its access to the bypass, therefore not redirecting traffic through the bypass. The number of PIA has remained unchanged but it is suggested that the rates (PIA/mvkm) have decreased because of extra traffic on the extended road network. It is also suggested that this unexpected performance is not setting a trend (therefore implying that accident rates will decrease in the future, but no further evidence on which the assumption is based is provided).	
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?	None		
What lessons can be learnt to improve LMS evaluation?	None		
a) Why was the convolution would compare the bound of the comparent would compare the comparent would comparent would compare the comparent would be comparent would compare the comparent would be comparent would		ive 4 (improved PT provision and use) evaluated?	
	Depth of Evalu	ation Supporting Evidence	
Pre Construction	ATCs and classified turning counts for travel demand (some from HA, some commissioned by Metropolitan Borough of Barnsley) Accident data No journey time savings survey in the pre construction period		
Post Opening ATCs and classified turning counts for travel demand (some from commissioned by Metropolitan Borough of Barnsley) Accident data Post opening data were used to estimate the travel time savings, comparing routes both in the post opening period.			

	Scheme Details						
Scheme	Nam	e	A638 Quality Bus Corridor				
Opening			April 2009				
Scheme			Doncaster, South Yorkshire				
Mode			Public Transport				
Location	Des	cription	Urban				
Evaluation			2012 Evaluation P	enort			
		on supplied	2012 Evaluation Report				
Evaluation	on Ti	me Period	2011 data so 1 yea				
Scheme Description			 A 1.86km inbound bus lane to the south and a 2.9km to the north of Doncaster Minimal carriageway widening to retain right turns at some junctions and central refuges for pedestrians was required. The bus operator agreed to provide 32 new vehicles. Some other interventions were described but it is unclear if they were part of the final scheme. 				
Scheme Objectives			 Time savings for bus users in the am peak Improve Bus Reliability in the am peak Better quality bus services Improved access by provision of low floor buses by First Group Improved pedestrian facilities to overcome perceived severance Improved access to Dome from nearest bus stop 				
ost	Cor	Stage → ntributor ↓	Programme E Forecast		Full Approval Forecast	Actual	
Scheme Cost Information	DfT		£15.306m		£15.921m	£15.921m	
֝֝֝֝֝֝֝֝֝֝֝֝֟֝֟֝֟֝ <u>֚֚</u>	LA		£3.794m		£0.000m	£1.289m	
che	3 rd	Parties	£0.000m		£0.000m	£3.200m	
Ø =	Tot		£19.100m)	£15.921m	£20.410m	
Summar key impa (e.g. traffic, safety,	environment, Actual		 Bus journey time savings: 6 minutes Bus reliability: improvement only Other metrics of quality buses, improved access, improved pedestrian facilities not forecast Bus journey time savings: 10 and 13.3 minutes Bus reliability:57% and 28% improvement 				
			Suitabilit	y for Me	ta-Analysis		
Line of Er	nquiry	1	Depth of evidence presented?	Brief des	cription of evidence preser	nted	
		Schemes (LMS) (and if not why	Partial	It is suggested that the schedule slipped by a year. The measons mentioned were the extended public consultation pe and the additional archaeological work required at the Park Ride sites.		public consultation period	
Are LMS delivered on budget (and if not why not)?		Comprehensive	It is worth noting that there is discrepancy between the provided in the project costs file and the costs quoted report. It is possible that this is due to difference in base However it remains to be examined. The report quotorecasted cost of £16.42m in 2005 prices and an actual of £17.04m. The 4% over-spend was mainly due to the extension public consultation period and the additional archaeological required at the Park and Ride sites (as the delay in deliver However, at a later section the report reads that the capitalised costs of construction and operation are now Annex E levels" (Annex E = forecast) therefore contradictions and operations.		the costs quoted in the difference in base year. d. The report quotes a lices and an actual cost of ainly due to the extended tional archaeological work the delay in delivery). For reads that the "total operation are now twice"		
How well dobjectives?	lo LMS	S deliver stated	Objectives 1: Comprehensive 2: Comprehensive 3: Comprehensive 4: Comprehensive 5: None	above statement. 1: 2.9mins savings in the northern and 5.2mins in the souther access of Doncaster 2: 57% increase in reliability in the northern and 28% increase reliability in the southern Access of Doncaster 3: 88% satisfaction score among bus users 4: 19 new Euro 4 low floor vehicles			

	6: Comprehensive	6: Walk time savings from the nearest bus stop are between 2m9sec and 2m27sec.		
What are the main benefits of LMS (and how does this differ by scheme context/type)?		Travel time benefits, travel time reliability enhancements, improved access to local leisure centre.		
Do LMS deliver value for money?	Partial	The forecasted BCR for the project was 2.42. There is no revised BCR estimation after the scheme. However, in the conclusions of the report it is implied that it is unlikely that the outturn BCR is close to the forecasted.		
How do LMS impact on traveller experience (e.g. reduced travel times, increased demands, improved comfort, improved safety, etc.)?				
Is there evidence LMS impact on modal choice?	None			
How do LMS impact on the environment (including carbon)?	None			
How do LMS impact on the local economy?	None			
How do LMS have an impact on local bus operations?	Comprehensive	Travel times have decreased and bus reliability has increased (see above 'How well do LMS deliver stated objectives?') However, evidence suggested that the scheme positively influenced bus patronage on the corridor north south corridor, by reversing the negative trend. In particular, prior to the scheme the south access corridor experience an average 2.6% decline in patronage and the north access 3.9%. This was retained at 0.6% in the former and reversed to a 4.1% increase in patronage in the north access. In the same period the wider area had a 14% decline in bus patronage.		
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	No forecast			
What are the reasons for the differences between forecast and outturn impacts?	N/A			
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?				
What lessons can be learnt to improve LMS evaluation?		The report needs to be comprehensively structured to allow for evidence to be easily accessible to stakeholders and other interested parties.		
Potential for stakeholder engagement?	Why did the buse envisaged?	s operator provide a smaller number of new buses than originally		
	Depth of Evalu	nation Supporting Evidence		
Pre Construction		Data from in-vehicle tracking equipment for busses Cordon counts and DfT AADF		
Post Opening	Data from in-vehicle tracking equipment for busses Cordon counts and DfT AADF Park & Ride users survey			

	Scheme Details					
Scheme	Nam	e	BIA NEC Public T	ransport S	Scheme	
Opening	Date		March 2011			
Scheme			Around Birminghar	n Airport, V	Vest Midlands	
Mode			Public Transport			
Location	Des	cription	Semi-Urban			
Evaluation Docume		on supplied	• Summary Note. V	ery brief a	nd poor level of evidence.	
Evaluation	on Ti	me Period	Note written 18 m	onths post	t construction.	
Scheme Description			 Birmingham International Interchange – bus station are amended to handle higher frequency services and improved passenger information On highway bus priority measures (mainly bus lanes) in four locations in the Birmingham Airport/National Exhibition C entre area Passenger waiting facilities improved on the corridors served by higher frequency services Higher frequency services themselves GPS equipment introduced on buses to enable automatic location by centralised control system Real time passenger information installed at bus stop locations Vehicle (bus) detection at traffic signal controlled junctions, to provide more bus priority Active traffic management – 'switch on – switch-off' bus lanes. Achieved through control system and variable message signage Pedestrian and cycle improvements in the form of minor highway improvements 			
Scheme	Obje	ctives	Not Stated and original business case not available			
Scheme Cost Information	Cor	Stage →	Programme Entry Forecast		Full Approval Forecast	Actual
scheme Cos Information	DfT	•	£10.600m		£11.113m	£11.113m
em	LA		£0.000m		£0.000m	£0.024m
r ch	3 rd I	Parties	£0.000m		£1.500m	£1.500m
<i>σ</i> –	Tota	al	£10.600m	1	£12.613m	£12.637m
Headline Summar key impa	y of	Forecast	Not stated			
(e.g. traffic, safety, environmer economy)		Actual	Not stated			
Suitability for M					ta-Analysis	
Line of E	Line of Enquiry		Depth of evidence presented?	Brief des	scription of evidence preser	nted
Are Local Major Schemes (LMS) delivered on time (and if not why not)?		Partial	It is mentioned that the project was delivered on time.		ivered on time.	
Are LMS (and if not v		red on budget t)?	Partial	It is ment	ioned that the project was del	ivered to budget.
How well of objectives?		deliver stated	None		r of targets are mentioned in t this is a finite list.	he letter. However it is

What are the main benefits of LMS (and how does this differ by scheme context/type)?	None	
Do LMS deliver value for money?	None	
How do LMS impact on traveller experience (e.g. reduced travel times, increased demands, improved comfort, improved safety, etc.)?	None	
Is there evidence LMS impact on modal choice?	None	
How do LMS impact on the environment (including carbon)?	None	
How do LMS impact on the local economy?	Partial	A number of development projects in the vicinity of the project have taken place. However, it is unclear whether the completion of the project had a direct effect on their realisation.
How do LMS have an impact on local bus operations?	None	
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	None	Forecast not available
What are the reasons for the differences between forecast and outturn impacts?	Not applicable	
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?		
What lessons can be learnt to improve LMS evaluation?		
Potential for stakeholder engagement?		
	Depth of Evalu	uation Supporting Evidence
	Not available	
Pre Construction		
Post Opening	Not available	

	Scheme Details					
Scheme	Name	e	Taunton Third Wa	y Major S	cheme	
Opening	Date	<u> </u>	27 th September 2011			
Scheme			Taunton, Somerse	t		
Mode			Highway			
Location	Des	cription	Urban			
Evaluation			One Year After rep	ort		
		on supplied	One real Alter rep	OIL		
Evaluation	on Ti	me Period	One year after			
Scheme Description			Major road improvement including a new bridge, providing a strategic north-south routes adjacent to the town centre. This important route would open up development and regeneration land within the town centre. The scheme includes: • A new bridge of the River Tone • A new bridge over Mill Stream • Construction of 150meter of new carriageway, and realignment of 300m more • Provision of two signalised junctions • Improve existing bridges • Provision of pedestrian and cyclists facilities			
Sahama	Obio	otivos	Relieve traffic in	the town c	ment and regeneration land in entre destrian and cyclists to the to	•
Scheme	Scheme Objectives		 Reduce congestion on north-south routes Reduce road casualties in the town centre Improve bus journey times 			
Scheme Cost Information	Con	Stage → tributor ↓	Programme Entry Forecast		Full Approval Forecast	Actual
scheme Cos Information	DfT	•	£6.16m		£5.465m	£5.884m
em	LA		£2.029m		£0	£0.646m
chi	3 rd F	Parties	£0		£2.029m	£2.029m
<i>o</i> , –	Tota	al	£8.189m		£7.494m	£8.559m
Headline	•	Forecast	4. Reduce traffic 5. Increase accessibility 6. Reduce road casualties 7. Improve bus journey times			
Summar key impa (e.g. traffic, safety, environmen economy)	acts	Actual	 Reduce traffic – 37% reduction in AADT in North Street. Forecasts were overestimating traffic flows, both in background due to economic recession, and on TTW potentially due to regeneration build out not proceeding as expected. Increase accessibility – pedestrian flows too variable, reduction in cycling but from very low base Reduce road casualties – 50% reduction in collisions and casualties, but from very low base. Improve bus journey times – buses departing as per timetable increased from 25% to 50%. 			
			Suitabilit	y for Me	ta-Analysis	
Line of Er	nquiry		Depth of evidence presented?		cription of evidence prese	
Are Local Major Schemes (LMS) delivered on time (and if not why not)?		Partial	planned. other org	build period of 17months, Reasons given including ad- anisations (not stated). Unf her also influenced delivery.	ditional works on behalf of	
	Are LMS delivered on budget (and if not why not)?		Partial		outturn costs against forecas ruction works still to be settle	
How well d objectives?		deliver stated	Objectives 1: Comprehensive 2: Comprehensive 3: Partial 4: Comprehensive	Reduce traffic – 700 vehicles (37%) reduction in AADT in North Street within the town centre. Re-routing not occurring as forecast. It is claimed that objective has been met, despite rationale for poor forecasting being put down to contextual economic recession.		

	5: Partial	 Reduced journey times by 4.8% am peak and 11% pm peak achieved due to reduced traffic. Saturn model forecast smaller reductions. Increase accessibility – pedestrian flows too variable, reduction in cycling but from very low base. It is reported that there is no evidence that the schemes has had a detrimental impact on pedestrian accessibility. Cycling levels reduced. Reduce road casualties – 50% reduction in collisions and casualties, but from very low base. Improve bus journey times – buses departing as per timetable increased from 25% to 50%. 		
What are the main benefits of LMS (and how does this differ by scheme context/type)?	Partial	Monetised values of scheme benefits • £145m PVB with 93% due to journey time savings • Assumed that carbon savings in line with forecast but no real evidence		
Do LMS deliver value for money?	Comprehensive	Economic Efficiency Table provided; forecasted BCR: 19.1 compared with the ex-ante forecast of 15.0		
How do LMS impact on traveller experience (e.g. reduced travel times, increased demands, improved comfort, improved safety, etc.)?				
Is there evidence LMS impact on modal choice?	None	No evidence		
How do LMS impact on the environment (including carbon)?	Local air quality: Comprehensive CO2: None	Local air quality with scheme: NO ₂ values highly variable year on year in central Taunton; PM10 monitoring did not identify any significant issues. CO2 savings: assumption made on reduction due to reduced traffic and assumed congestion. No compelling evidence.		
How do LMS impact on the local economy?	BRES and IBR Data	Business numbers in Taunton reduced from 1525 to 1320 between 2008 and 2010 (9.2% reduction). Somerset reduction only 3.2%. No compelling evidence on impacts of the scheme.		
How do LMS have an impact on local bus operations?	Partial	Improved journey times and reliability compared to timetable.		
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	Safety: Comprehensive Other: None			
What are the reasons for the differences between forecast and outturn impacts?	Travel demand: Partial Safety: Partial	Stated as the economic recession influencing travel demand, regeneration investment and re-routing.		
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?	None			
What lessons can be learnt to improve LMS evaluation?	None			
Potential for stakeholder engagement?				
		nation Supporting Evidence		
Pre Construction	Journey times Accidents Traffic flows Pedestrian/cyclist counts Air quality			
Post Opening	Journey times Accidents Traffic flows Pedestrian/cyclist counts Air quality			

Scheme Details							
Scheme	Nam	е	Weymouth Relief Road				
Opening	Date)	17 th March, 2011				
Scheme	Loca	tion	Weymouth, Dorset				
Mode			Highway				
Location	Des	cription	Semi-urban				
Evaluation	on	•	0 1/ 1/				
Docume	ntatio	on supplied	One Year After rep	ort			
		me Period	One year after				
Scheme	Desc	ription	Single carriagePark and ride sNew road align	ite	_		
Scheme	Obje	ctives	Reduce delay/congestion on the A354 Reduce impact of rat running and protect environment Improve safety on corridor Improve quality of life Encourage modal shift away from the car				
Scheme Cost Information	Cor	Stage → ntributor ↓	Programme E Forecast		Full Approval Forecast	Actual	
scheme Cos Information	DfT	•	£54.567m)	£79.223m	£80.696m	
בַּבַ בַּ	LA		£0		£8.219m	£8.575m	
che	3 rd I	Parties	£0		£0	£0	
<i>ω</i> –	Tota		£54.567m	1	£87.442m	£89.271m	
Headline Summar key impa	y of	Forecast	Transport model was not re-run as part of the one year post opening assessment				
(e.g. traffic, safety, environmen economy)	ıt,	Actual	therefore many of the observations are based on count data but no monetised assessment. 4. Modelled traffic flows are 'generally representative of the observed flows'. 5. Noise varied from forecasts by area but not consistently 6. Air quality varied from forecasts due to traffic routing being different				
			Suitabilit	y for Me	ta-Analysis		
Line of Er	nquiry	1	Depth of evidence presented?	Brief de	scription of evidence present	ed	
		Schemes (LMS) (and if not why	Partial	33 month delivery programme compared with 30 stated at Ful Approval. No reason stated for delay.			
Are LMS (and if not v		red on budget t)?	Partial	Scheme delivered over budget with only detail of cause bein protestors on the route.			
How well do LMS deliver stated objectives?		Objectives 1: Comprehensive 2: Comprehensive 3: Partial 4: Comprehensive 5: Partial	 6. Traffic flows reduced across the study area but not consiste 7. Traffic on minor roads reduced 14%. 8. Safety not reported as only 1 year post opening. 9. Journey time reliability has improved (stand dev per tripollution and noise reduced on Dorchester Road beincreased on other links. 10. Park and ride use 220 per day. 		st opening. d (stand dev per trip). Dorchester Road but		
What are the main benefits of LMS (and how does this differ by scheme context/type)?			Partial	Monetised values of scheme benefits (2002 costs) • PVB business users £184m forecast • PVB Consumers £135m forecast • No updated values provided in year one assessment modelling not undertaken.			
Do LMS de	liver va	alue for money?	Partial	No BCR	provided in year one assessmovided but not brought together.		

How do LMS impact on traveller experience (e.g. reduced travel times, increased demands, improved comfort, improved safety, etc.)?		No data presented on accidents due to one year post construction.
Is there evidence LMS impact on modal choice?	None	No evidence
How do LMS impact on the environment (including carbon)?	Noise: Comprehensive <u>Air Quality:</u> Partial <u>CO</u> ₂ Partial	 Noise monitoring has shown varied results, with many sites reporting an increase in traffic related noise. Air quality better than forecast on the Relief Road, but higher than expected on Dorchester Road. CO² higher than forecast as the traffic model under-estimated traffic flows Townscape, landscape, heritage, biodiversity, water all estimated impacts using WebTAG units.
How do LMS impact on the local economy?	Partial	Data on wider economic impacts included tourism, house prices, and wages. No real attribution analysis undertaken.
How do LMS have an impact on local bus operations?	None	None provided
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	Partial	No consistent data provided
What are the reasons for the differences between forecast and outturn impacts?	None	
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?	None	
What lessons can be learnt to improve LMS evaluation?	None	
Potential for stakeholder engagement?		
	Depth of Evalu	ation Supporting Evidence
Pre Construction		
Post Opening		

			S	cheme [Details				
Scheme	Nam	е	West Midlands Red Routes – Package One						
Opening	Date)	Various						
Scheme	Loca	tion	Birmingham, Sandwell, Solihull, Walsall, Wolverhampton						
Mode			Integrated Trans	sport					
Location		cription	Conurbation						
Evaluation	on				s – Monitoring and Evaluation				
Docume	ntatio	on supplied	evaluates six of the total Packag		es in the package which repr work.	resents around 24% of			
Evaluation	on Ti	me Period	One year after o	completion	of all routes.				
Scheme	Desc	ription	The scheme consists of implementing red routes on 130km on 25 strategic routes in the West Midlands. The scheme entailed signing and lining, junction improvements, side road entry treatments as well as the relocation of some bus stops, upgrading of pedestrian crossings and the construction of additional parking.						
			 Reduced jour 	ney times f	or buses and other vehicles				
			 Improved jour 						
Scheme	Obje	ctives	 Improvements 						
			Increased bus						
			Reduction in a		and casualties				
Scheme Cost Information		Stage → ntributor ↓	Programme Forecas		Full Approval Forecast	Actual			
ne (DfT		-		£27.970m	£27.970m			
orn	LA		-		-	-			
Sch Inf		Parties	-		-	-			
0,	Tota	al	- £27.970m £27.970m						
Headline Summary of key impacts			PVC= £36m, PVB (Acc & JT)= £149m, NPV=£113m, BCR= 4.2						
(e.g. traffic, safety, environmen economy)		Actual	No economic benefits presented. Up to 18% reduction in journey times, up to 33% increase in reliability, up to 29% reduction in accidents, up to 20% increased bus patronage, improved levels of TRO enforcement.						
			Suitabil	ity for M	eta-Analysis				
Line of Er	nquiry	1	Depth of evidence presented?		scription of evidence prese				
		Schemes (LMS) (and if not why	Partial	Originally programmed to be delivered in 3 to 4 years, actua took seven years. Not enough forethought in planning/approval process.					
Are LMS (and if not v		red on budget t)?	Comprehensive	Scheme	delivered to budget.				
How well d objectives?	o LMS	S deliver stated	1= Comp 2= Comp 3= Comp 4= Comp 5= Comp	Scheme delivered all objectives, in many cases be exceeded forecast.					
	ow do	ain benefits of es this differ by rpe)?	Comprehensive	Improved	journey times and safety.				
Do LMS de	liver va	alue for money?	None	No evide	nce presented.				

How do LMS impact on traveller experience (e.g. reduced travel times, increased demands, improved comfort, improved safety, etc.)?	Comprehensive	Scheme has improved all aspects of traveller experience
Is there evidence LMS impact on modal choice?	Comprehensive	Up to 20% increase in bus patronage/
How do LMS impact on the environment (including carbon)?	None	
How do LMS impact on the local economy?	None	
How do LMS have an impact on local bus operations?	Comprehensive	Improved reliability of bus services.
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	None	No forecasts presented.
What are the reasons for the differences between forecast and outturn impacts?	None	No forecasts presented.
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?		
What lessons can be learnt to improve LMS evaluation?		
Potential for stakeholder engagement?		
	Depth of Eval	uation Supporting Evidence
Pre Construction		
Post Opening		

			S	cheme [Details					
Scheme	Nam	е	Glasshoughtor	n Coalfield	s Link Road					
Opening			March 2009							
Scheme			Castleford, West Yorkshire							
Mode			Highway							
Location	Des	crintion	Conurbation							
Evaluation		Cription	COHUIDAUOH							
		on supplied	Wakefield Monitoring Glasshoughton Coalfields Link Road – August 2013							
Evaluation	on Ti	me Period	3 years after							
Scheme Description			New 7.3m single carriageway highway approximately 3.4km in length linking the A655 Normanton bypass to the A6359 Leeds Road at Glasshoughton, Castleford. The scheme passes through the Normanton Industrial Estate Extension UDP development site and facilitates the comprehensive development of that site by creating additional highway capacity at M62 Junction 31. There is an inextricable link between the schemes and the development site in that the site cannot proceed to full development potential unless the new link is provided, because of traffic capacity constraints at M62 Junction 31.							
					of the area particularly Norma	anton Industrial Estate				
Scheme	Obje	ctives			Congestion at Junction 31 of	the M62;				
	-		Reduction in to	Reduction in traffic on sensitive local roads; and						
			Environmental and safety benefits.							
Scheme Cost Information	Cor	Stage → ntributor ↓	Programme Forecas		Full Approval Forecast	Actual				
scheme Cos Information	DfT		-		£6.512m	-				
ב ב	LA		-		-	-				
she of		Parties	-		£5.424m -					
⊗ =	Tota		_		£11.936m	£11.950				
Headline Summary of key impacts (e.g. traffic, safety, environment, Actual			Traffic has been re-distributed away from residential areas, JTs have improved 60% between Castleford and the Industrial Estate, Accident rate reduced by 16%							
economy)			Suitability for Meta-Analysis							
				ity ioi iii	Cta-Analysis					
Line of Er	nquiry	1	Depth of evidence presented?	Brief des	scription of evidence prese	nted				
		Schemes (LMS) (and if not why	None	No detail						
Are LMS (and if not v		red on budget t)?	Partial	Scheme slightly over budget due to overspend in construction phase.						
How well dobjectives?	lo LMS	S deliver stated	1= Comp 2= Comp 3= Comp 4= Comp	Scheme	delivered all objectives.					
	ow do	ain benefits of es this differ by pe)?	Comprehensive	Redistrib	ution of traffic, improved safe	ety and journey times.				
Do LMS de	liver va	alue for money?	None	No evide	nce presented.					

How do LMS impact on traveller experience (e.g. reduced travel times, increased demands, improved comfort, improved safety, etc.)?	Comprehensive	Evidence in report suggests that all aspects of traveller experience have been improved by the scheme.					
Is there evidence LMS impact on modal choice?	None	None presented.					
How do LMS impact on the environment (including carbon)?	Partial	Air quality and noise based on changes in traffic volumes					
How do LMS impact on the local economy?	Partial						
How do LMS have an impact on local bus operations?	None						
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	Partial	Forecast traffic flows & safety.					
What are the reasons for the differences between forecast and outturn impacts?	None						
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?							
What lessons can be learnt to improve LMS evaluation?							
Potential for stakeholder engagement?							
		uation Supporting Evidence					
Pre Construction	Traffic counts for study area Nov 2008, JT for 2007 and 2008, accidents 3 years before.						
Post Opening	Traffic counts for study area Nov 2012, JT for eight months from Jan 2011, accidents 3 years after.						

			S	cheme [Details					
Scheme	Nam	e	Hemsworth-A1	Link Roa	<u> </u>					
Opening			November 2009							
Scheme			Castleford, West Yorkshire							
Mode	LOCA	tion .	Highway							
Location	Des	crintion	Conurbation							
Evaluation		Cription	COHUIDAUUH							
		on supplied	Wakefield Monit	toring Hem	sworth-A1 Link Road – Augu	st 2013				
Evaluation	on Ti	me Period	Data used in rep	port is three	e years after					
Scheme Description			The scheme provides a new link road between the A628 Hemsworth Bypass and the A639/A1 at Barnsdale Bar. The route is approximately 8km in length and is of single carriageway standard. The project includes upgrading of Wrangbrook Lane between Barnsdale Bar and the A638 at Upton, together with a new off road section from the A638 to Hemsworth. The route includes two railway bridges and four roundabouts, including one to provide a new access into the South Kirkby Business Park on the former colliery site. The scheme is intended to assist in the regeneration of the area around Hemsworth, South Kirkby and Upton and completes the link between the Barnsley Coalfields Link Road and the A1. The scheme provides a good east west route from the M1 in South Yorkshire to the A1 in Wakefield.							
			Economic regeneration of the area by providing fast and reliable journey times;							
Scheme	Obje	ctives	Improved access to South Kirkby Industrial park;							
			Reduction in traffic through the villages; and							
			Environmental and safety benefits.							
Scheme Cost Information	Cor	Stage → tributor ↓	Programme Forecas		Full Approval Forecast Actual					
e C nati	DfT	·	-		£22.800m	-				
E E	LA		-		£1.457m	-				
l che	3 rd I	Parties	-		-	-				
<i>S</i> –	Tota		-		£24.257m	£28.560m				
Headline Summar key impa (e.g. traffic,	y of	Forecast	None available due to relocation of Wakefield Council offices and turnover of staff							
environmen economy)		Actual	JTs have reduced up to 60% between Castleford and the Industrial Estate, Accident rate reduced by 16%							
			Suitabil	ity for M	eta-Analysis					
Line of Er	nquiry	1	Depth of evidence presented?	Brief des	nted					
		Schemes (LMS) (and if not why	Partial		Scheme overrun by 6 months, no details why.					
Are LMS (and if not v		red on budget t)?	Comprehensive	Scheme over budget due to increase in land costs, construphase overrun and CEs from the contractor.						
How well dobjectives?		S deliver stated	1= Partial 2= Partial 3= Comp 4= Comp		delivered all objectives.					
	now do	ain benefits of es this differ by pe)?	Comprehensive	Economi	c development, improved saf	ety and journey times.				

Do LMS deliver value for money?	Partial	Outturn safety benefits based on the observed change in accidents numbers over a three year period are estimated at £15 million, nearly three times higher than predicted. Benefits associated with journey time and vehicle operating costs benefits are not possible to analyse given the information currently available.					
How do LMS impact on traveller experience (e.g. reduced travel times, increased demands, improved comfort, improved safety, etc.)?	Partial	Evidence of reduced travel times and improved safety.					
Is there evidence LMS impact on modal choice?	None	None presented.					
How do LMS impact on the environment (including carbon)?	None						
How do LMS impact on the local economy?	Partial	The opening of the road has resulted in a number of planning permissions being granted for housing and employment developments along the corridor.					
How do LMS have an impact on local bus operations?	None						
How well have the impacts of LMS been forecast (e.g. travel demands, journey times, safety, reliability, etc)?	Partial	Forecast safety and traffic flow impacts.					
What are the reasons for the differences between forecast and outturn impacts?	None						
What key learning points should be communicated to future LMS promoters, particularly in a future where funding is devolved?							
What lessons can be learnt to improve LMS evaluation?							
Potential for stakeholder engagement?							
		luation Supporting Evidence					
Pre Construction	Traffic counts for study area Nov 2008, JT for 2007 and 2008, accidents 3 years before.						
Post Opening	Traffic counts accidents 3 year	for study area Nov 2012, JT for eight months from Jan 2011, ars after.					

Appendix C: Review of Data Quality (by Scheme)

DfT Evaluation	n Ouestion												Scheme Name											
Main Question	Sub Question (If applicable)	A158 Burgh Le Marsh Bypass	B1115 Stow market Relie Road	A4123/A461 Burn Tree		Darlington Eastern Transport Corridor		Ow en Street Relief Road	A1073 Spalding to	A688 Wheatley Hill to Bow burn Link	Metrolink Track Renew al and Blockade	Scarborough Integrated Transport Scheme	Tunstall Northern		Weymouth Transport Package for 2012 games		A638 Quality Bus Corridor	BIA NEC Public Transport Scheme	Brierley Hill SAN	Weymouth Relief Road	Taunton Third Way Major Scheme	Glasshoughton Coalfields Link Road	Hemsw orth - A1 Link Road	West Midlands Red Routes - Package 1
		н	н	н	PT	н	н		н	н	PT	н	н		п	н	PT	PT	н	н	н	н	н	
		2007	2010	2010	2011	2008	2011	2010	2011	2008	2007	2009	2008	2009	2011	2010	2009	2011	2008	2011	2011	2009	2009	2012
Are Local Major Schemes (LMS)	Delivered on time?	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
delivered on time (and if not why not)?	If not, why not?	0	0	0	1	0	3	0	0	0	1	0	0	3	N/A	0	2	N/A	0	0	3	0	0	3
Are LMS delivered on budget (and i	f Delivered on budget?	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
not why not)?	If not, why not?	N/A	3	N/A	0	0	N/A	0	0	N/A	N/A	0	0	2	N/A	N/A	3	N/A	N/A	2	1	2	2	N/A
	Journey time savings	1	1	3	N/A	N/A	3	3	0	N/A	N/A	N/A	N/A	3	3	0	3	N/A	2	2	2	3	3	3
	Journey time reliability	1	0	N/A	N/A	N/A	1	1	0	N/A	N/A	N/A	N/A	N/A	N/A	1	2	N/A	0	3	N/A	0	0	3
How well do LMS deliver stated	Reduce traffic / congestion	1	1	N/A	0	3	N/A	N/A	0	0	N/A	3	3	N/A	N/A	3	N/A	N/A	3	3	2	3	3	N/A
objectives?	Safety Improve accessibility	1	N/A N/A	1	N/A	2 N/A	1	1	0	N/A N/A	N/A N/A	N/A	1	1	N/A N/A	N/A 1	N/A 1	N/A N/A	1	N/A	1	0	2	3
	Environment	1	N/A	2	N/A	N/A	1	2	0	0	N/A	0	0	0	N/A	N/A	N/A	N/A	2	2	N/A	1	1	N/A
	Economic impacts	1	1	N/A	0	N/A	1	1	0	0	N/A	N/A	0	1	N/A	1	0	N/A	1	N/A	1	1	1	N/A
	Journey time savings	1	0	3	1	0	3	3	0	0	0	0	3	2	3	3	3	0	2	2	2	3	3	3
	Journey time reliability	1	0	0	0	0	1	1	0	0	0	0	0	0	2	1	2	0	0	3	0	0	0	3
What are the main benefits of LMS (and how does this differ by scheme		1	2	2	0	3	3	1	0	0	0	3	3	2	TBC	3	0	0	3	3	2	3	3	3
context/type)?	Improve accessibility	1	1	1	1	1	2	1	0	0	0	0	0	1	0	1	1	0	1	1	1	0	0	0
	Environment	1	0	2	0	2	1	2	0	0	0	0	0	0	2	1	0	0	2	2	2	1	1	0
	Economic impacts	1	1	0	1	1	1	1	0	0	0	0	0	1	TBC	1	0	0	1	1	1	1	1	0
Do LMS deliver value for money?		0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	3	0	0	0
How do LMS impact on traveller ex times, increased demands, improve etc.)?		1	0	1	1	0	2	1	0	0	2	0	0	0	2	1	0	0	1	0	1	0	0	3
Is there evidence LMS impact on m	nodal choice?	0	1	0	1	1	1	3	0	1	3	1	0	0	0	0	0	0	0	2	0	0	0	3
How do LMS impact on the environ	ment (including carbon)?	1	0	2	0	2	1	2	0	0	0	0	0	0	2	2	0	0	0	2	2	1	1	0
How do LMS impact on the local ec	onomy?	1	1	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	0
How do LMS have an impact on loc	al bus operations?	0	0	0	1	0	2	1	0	0	0	1	0	0	3	0	3	0	0	0	2	0	0	3
	Travel demand	0	2	0	0	0	3	0	0	0	2	0	0	3	3	2	0	0	0	1	3	3	3	0
How well have the impacts of LMS		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
been forecast (e.g. travel demands, journey times, safety, reliability, etc)?		0	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	1	3	0	0	0
, sand, minos, baloty, rollability, etc):	Environment	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	Travel demand	0	2	0	0	0	3	0	0	0	2	0	0	3	3	2	0	0	0	1	2	1	1	0
What are the main differences	Journey time reliability	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
between forecast and outturn impacts?	Journey times	0	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	1	2	0	0	0
impacts?	Safety Environment	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	1	2	0	0	0
	CITIONIIICII		-	-		- 0		•	0	- 0	V	- 0	U	V	U	U		V	U		U	- 0	U	U

1. Are LMS Delivered on time?	
Forecast delivery dates at Programme Entry and Full Approval provided together with Actual scheme opening date.	3
N/A	2
N/A	1
No forecast delivery dates at Programme Entry and Full Approval available.	0

5. Do LMS deliver value for money?	
Full recalculation of outturn BCR using observed data undertaken	3
In depth qualitative assessment inferring that the scheme has delivered value for money	2
Minimal qualitative assessment inferring that the scheme has delivered value for money	1
No evidence presented	0

No evidence presented	0
10 How do LMS impact on local bus operations?	
Comprehensive quantitative evaluation based on passenger counts or user surveys	3
Partial quantitative evaluation undertaken	2
Minimal qualitative evaluation presented	1
No evidence presented	0

U	U	U	
1. And if not why	not?		
Comprehensive reas with high level of de		delivery provided	3
Partial level of detail	2		
Minimal information delivery	1		
No reasons provide	d for late deliv	ery	0

Comprehensive quantitative evaluation based on user surveys or other method	3
Partial qualitative evaluation	2
Minimal qualitatitive evaluation	1
No evidence presented	0

11 How well have the impacts on LMS been f	orecast?
Detailed quantitative evaluation of forecast and outturn impacts	3
Partial quantitative evaluation of forecast and outturn impacts	2
Qualitative assessment of forecast and outturn impacts	1
No evidence presented	0

	at Programme Entry and Full ed together with Actual scheme	3
costs.		
N/A		2
N/A		1

Comprehensive quantitative evaluation based on passenger counts or user surveys	3
Partial quantitative evaluation undertaken	2
Minimal qualitative evaluation presented	1
No evidence presented	0

Comprehensive explanation of reasons for differences provided	3
Partial explanation of reasons for differences provided	2
Minimal explanation of reasons for differences provided	1
No evidence presented	0

2. And if not wi	ny not?			
Comprehensive i with high level of	reasons for cost detail.	overrun provided	3	
Partial level of de	etail provided for	cost overrun	2	
Minimal informat overrun	ion provided rega	arding cost	1	
No reasons prov	ided for cost over	rrun	0	

Comprehensive evaluation based on quantative indicators	3
Comprehensive qualitative evaluation	2
Minimal qualitative evaluation	1
No evidence presented	0

3. How well do LMS deliver stated objectives 4. What are the main benefits of LMS?	?
Detailed quantitative evidence presented	

. What are the main benefits of LWS:		
Detailed quantitative evidence presented	3	
Partial quantative evidence presented	2	
Mainly qualitative evidence presented	1	
No evidence presented	0	

9 How do LMS impact on the local economy?	
Comprehensive evaluation based on quantative indicators	3
Comprehensive qualitative evaluation	2
Minimal qualitative evaluation	1
No evidence presented	0

Appendix D: Review of Data Quality (by Attribute)

DfT Evaluation	Question					Data Attribute				
Main Question	Sub Question (If applicable)	Accuracy	Data Availability	Data Completeness	Data Consistency	Conformatity	Credability	Processability	Relevance	Timeliness
		Is the correct measure used to answer question?	Is all the data readily available?	Does the sample contain all the data needed to answ er the core research question?	Does the data set lend itself for like for like comparisons	Has the analysis been completed to the necessary standard and is it correct?	is the data supplied from robust sources?	How easily can the data be handled and aggregated?	Is the data available relevant to the answering the question?	Is now the right time to evaluate?
Are Local Major Schemes (LMS)	Delivered on time?	3	3	3	3	N/A	N/A	3	3	3
not)?	If not, why not?	1	0	0	0	N/A	N/A	0	0	0
Are LMS delivered on budget (and if	Delivered on budget?	3	3	2	3	N/A	N/A	2	3	2
not why not)?	If not, why not?	1	1	1	0	N/A	N/A	0	0	0
		2	2	2	1			1	2	3
How well do I MS deliver stated	Reduce traffic / congestion	1	1	1	1	N/A	N/A	1	1	3
objectives?	Safety	2	2	2	1	N/A	N/A	1	2	2
		0	0	0	0			0	0	1
	Economic impacts	0	0	0	0	N/A	N/A	Ö	0	2
	Journey time savings	2	2	2	1			1	2	1
What are the main benefits of LMS		2	2	2	1	N/A	N/A	1	2	3
(and how does this differ by scheme	Safety	2	2	2	1	N/A	N/A	1	2	2
context/type)?		0	0	0	0			0	0	3
Main Question re Local Major Schemes (LMS) elivered on time (and if not why oi)? re LMS delivered on budget (and if ot why not)? ow well do LMS deliver stated bjectives? //hat are the main benefits of LMS and how does this differ by scheme ontexthype)? ou LMS deliver value for money? ow do LMS impact on traveller exp mes.increased demands, improvec. (b.)? there evidence LMS impact on mo ow do LMS impact on the environm ow do LMS impact on the environm ow do LMS impact on the local eco ow do LMS have an impact on loca ow well have the impacts of LMS seen forecast (e.g. travel demands, nurney times, safety, reliability, etc)? //hat are the main differences etween forecast and outturn	Economic impacts	0	0	0	0	N/A	N/A	0	0	3
Do LMS deliver value for money?		0	0	0	0	N/A	N/A	0	0	1
		0	0	0	0	N/A	N/A	0	0	3
Is there evidence LMS impact on mo	dal choice?	0	0	0	0	N/A	N/A	0	0	1
How do LMS impact on the environm	ent (including carbon)?	1	1	1	1	N/A	N/A	1	1	1
How do LMS impact on the local eco	nomy?	0	0	0	0	N/A	N/A	0	0	2
How do LMS have an impact on local	l bus operations?	1	1	1	1	N/A	N/A	1	1	1
	Travel demand	1	1	1	1	N/A	N/A	1	1	3
		0	0	0	0	N/A	N/A	0	0	3
journey times, safety, reliability, etc)?	Journey times Safety	0	0	0	0	N/A N/A	N/A N/A	0	0	2
	Environment	0	0	0	0	N/A	N/A	0	0	0
What are the main differences										
between forecast and outturn	Journey times	0	0	0	0	N/A	N/A	0	0	3
impacts?	## In calculation ## In contract many ## In contr	2								
		23	22	21	16			15	21	70
	Total oddro		- Laboratoria de la companya de la c							
	3	demonstrated by	have data	is available for	comparisons feasible for >	N/A	N/A	manipulation is required to achieve sufficient	information to answer the question is available for >17	The timing is correct to answer the research question for >17 schemes
	2	demonstrated by 10-	have data	is available for	demonstrated by 10-16	N/A	N/A	almost achieved. Some low cost manipulation required to standardise a sufficient	information to answer the question is available for 10-	The timing is correct to provide an initial answer to the research question for >17 schemes
	1	Sufficiently demonstrated by 5- 10 schemes	5-10 schemes have data readily available	Complete data is available for 5- 10 schemes	Sufficiently demonstrated by 5-10 schemes	N/A	N/A	Cost of processing dataset would be high - significant standardisation required	Relevant information to answer the question is available for 5- 10 schemes	The timing is correct to answer the research question for 5-16 schemes
	0	Sufficiently demonstrated by less than 5 schemes	Less than 5 schemes have data readily available	Complete data is available for less than 5 schemes	Sufficiently demonstrated by less than 5 schemes	N/A	N/A	No data consistency at all and data mostly missing	Relevant information to answer the question is available for less than 5 schemes	The timing is correct to answer the research question for less than 5 schemes

Appendix E: Scheme Promoter Questionnaire

Meta Evaluation of Local Authority Major Schemes -

Background

The DfT is responsible for demonstrating that its funding for local-level investment has provided value for money for the taxpayer. We are also responsible for ensuring that lessons are learnt to inform future decision making. To this end we have commissioned research, being carried out by Atkins/AECOM, to provide evidence and analysis from evaluations that have been carried out by Local Authorities on Local Major Schemes.

The ultimate objective of this research project is to improve our understanding of the evaluation results so far obtained - at a programme level. Ultimately, this will help us to identify and disseminate key learning points to assist scheme promoters and their delivery partners respond to devolved scheme prioritisation and local delivery responsibilities.

We are therefore getting in touch with you as you are our primary contact for one of the schemes where a Major Scheme Evaluation Report has been provided to the Department. As our main contact for one of the schemes listed below, we would like you coordinate a response to the short questionnaire below on behalf of your promoting organisation.

Local Major Schemes v	vith evaluations provided
A158 Burgh Le Marsh Bypass	Walsall TCTP
B1115 Stowmarket Relief Road	Weymouth Transport Package for 2012 games
A4123/A461 Burnt Tree	A628 Cudworth and West Green Bypass
Cambridgeshire Guided Busway	A638 Quality Bus Corridor
Darlington Eastern Transport Corridor	BIA NEC Public Transport Scheme
M4 J11 and Mereoak Improvement	Brierley Hill SAN
Owen Street Relief Road	Weymouth Relief Road
A1073 Spalding to Eye	Taunton Third Way Major Scheme
A688 Wheatley Hill to Bowburn Link	Glasshoughton Coalfields Link Road
Metrolink Track Renewal and Blockade	Hemsworth - A1 Link Road
Scarborough Integrated Transport Scheme	West Midlands Red Routes - Package 1
Tunstall Northern Bypass	

<u>Note: This is not an audit process</u> – we are simply looking to take a programme level approach to overall analysis such that common lessons learnt can be drawn out. We are hoping to clarify/enhance and hopefully expand on some of the information provided in the scheme evaluation and monitoring reports through this (and potentially further) engagement.

The questionnaire focuses on collecting more consistent evidence relating to the following key themes:

- Cost Management;
- Programme Management and Scheme Delivery; and
- Unintended Outcomes.

Should you no longer be the main contact please speak to John Collins on (0207) 944 6990 or email (johnj.collins@dft.gsi.gov.uk) with updated details. If you have further queries or require clarification of any aspects of this research or the questionnaire below please feel free to make contact.

In some cases we expect Atkins/AECOM to carry out more detailed, but targeted engagement (e.g. through an expanded questionnaire or through telephone or face to face interview). We wouldn't expect this to take a significant amount of your time — and we would be grateful if you could make clear in your return who would be the best point of contact for any further engagement.

Deadline for Response: Friday 31st January

Cost Management

riogramme	entry and full approval:	
Full approva	al and scheme completion:	
Γο what exten stage?	t could factors resulting in cost variances have been foreseen and mitigated at a	an ea
Response:		
ramme Mana	gement and Scheme Delivery	
What were the	e main causes of programme slippage or change and how were these managed	?
		?
What were the		?
What were the		?
What were the		?
What were the Response:		
What were the Response:	e main causes of programme slippage or change and how were these managed	
What were the Response: How could proper the earned for future.	e main causes of programme slippage or change and how were these managed	

	Response:
nt	tended Outcomes
	What are the residual issues and problems in the scheme area and how would you have designe scheme differently to assist in mitigating these?
	Response:
۷	What unanticipated impacts have been observed following the scheme's delivery?
	Response: