Large Local Major Schemes: Bid for construction funding

Part Two: Checklist

Please complete this checklist by referencing locations where the relevant material can be found in the OBC document

Strategic Case

Item		Section/Page
A detailed description of the physical scope of the scheme		Sec 1.3.1
The objectives of the scheme		Sec 1.3.4
A description of the process by which the scheme came to be identified as the preferred option for meeting those objectives including why alternative options were discarded		Sec 1.5
How the objectives of the scheme align with national transport objectives *We do not expect all schemes to meet <u>all</u> of these objectives so please mark n/a if necessary.*	1. to ease congestion and provide upgrades on important national, regional or local routes	Sec 1.6.1 Sec 1.7.2 Sec 1.7.3 Sec 1.7.4
	2. to unlock economic and job creation opportunities	Sec 1.4.3 Sec 1.4.4 Sec 1.6.2
	3. to enable the delivery of new housing developments	Sec 1.4.1 Sec 1.6.3
For schemes that directly aim to facilitate commercial or housing development on specific sites, details of the sites, current planning status, status of developer commitment and the expected impact of the scheme		Sec 1.6.3
The impact the scheme would have on	The Strategic Road Network	Sec 1.7.3
	Access to planned HS2 stations or sites	Sec 1.7.4
	Access to International Gateways	Sec 1.7.4
Details of public consultation activities on the scheme to date, and key findings including how any key questions/concerns have been addressed.		Sec 1.8

Economic Case

As well as referencing the location of these within the OBC, please supply each of the following documents and refer to Annex A for the checklist of appraisal and modelling supporting material.

Item	**Section/Page**
Option Assessment Report (OAR)	Appendix 1.2
Data Collection Report	Supplementary report – see Modelling references
Local Model Validation Report (LMVR)	Supplementary report – see Modelling references
Present Year Validation Report (if required)	n/a
Forecasting Report	Appendix 2.1
Economic Appraisal Report	Appendix 2.2
Social and Distributional Impacts Assessment	Appendix 2.3

Management Case

Item		**Section/Page**
Governance structure *including SRO, Project Board, Project Manager, and other key roles, and resourcing levels*		Sec 3.5
Detailed Project Plan		Sec 3.6
Risk Management	Detailed Risk Register	Sec 3.9
	Narrative to explain the most significant risks, how they are being managed and their potential impact on time and budget	Sec 3.9
	Risk management strategy	Sec 3.9
Project Assurance *e.g. Gateway Reviews*		Sec 3.7
Evaluation *Outline evaluation plan including a statement of core evaluation objectives*		Sec 3.10

Commercial Case

Item	**Section/Page**
Description of the preferred procurement strategy	Sec 4.2

Rational for the selection of preferred procurement route against possible alternatives	Sec 4.3
Explanation of how costs and risks will be shared throughout the contract	Sec 4.3

Financial Case

Item	**Section/Page**
Detailed cost breakdown	Sec 5.3 capital Sec 5.4 operational
Independent surveyor's report verifying cost estimates	Sec 5.3
Details of and justification for inflation assumption used.	Sec 5.3
Quantified Risk Assessment *All scheme costings should include an amount for risk, based on the results of a Quantified Risk Assessment (QRA) which should be proportionate to the nature and complexity of the project.*	Appendix 3.6 of the Management Case
Evidence of commitment for any third party contributions	Sec 5.5

Annex A: Checklist of appraisal and modelling supporting material

Option Assessment

Item	Section/Page
An Option Assessment Report to include steps 1 to 8 set out in WebTAG – the transport appraisal process.	Appendix 1.2

Modelling

Item		Section/Page
An Existing Data and Traffic Surveys Report to include:		GBATS4 Model Update, Report of Surveys and Existing Data Review
	Details of the sources, locations (illustrated on a map), methods of collection, dates, days of week, durations, sample factors, estimation of accuracy, etc.	Roadside Surveys – Section 2 ATCs – Section 3 MCCs – Section 4 Car Park Data – Section 6 Journey Time Surveys – Section 7 Bus User Surveys – Section 8 Rail Usage Surveys – Section 9
	Details of any specialist surveys (e.g. stated preference).	n/a
	Traffic and passenger flows; including daily, hourly and seasonal profiles, including details by vehicle class where appropriate.	Roadside Interviews – Section 2.3.2, Appendix B ATCs – Appendix C MCCs – Appendices D and E Car Park Data – Section 6.1 Bus User Surveys – Section 8.2-8.3 Rail Usage Surveys – Section 9.2-9.4
	Journey times by mode, including variability if appropriate.	Section 7.2
	Details of the pattern and scale of traffic delays and queues.	Section 7.2
	Desire line diagrams for important parts of the network.	n/a
	Diagrams of existing traffic flows, both in the immediate corridor and other relevant corridors.	Appendix 2.1, Appendix B
An Assignment Model Validation Report to include:		GBATS4M Model Update, MetroWest Highway Model, Local Model Validation Report GBATS4M Model Update, MetroWest Public Transport Model, Local Model Validation Report
	Description of the road traffic and public transport passenger assignment model development, including model network and zone plans, details of treatment of congestion on the road system and crowding on the public transport system.	Highway LMVR - Section 4 Public Transport LMVR - Section 4

Item		Section/Page
	Description of the data used in model building and validation with a clear distinction made for any independent validation data.	Highway LMVR - Section 5 Public Transport LMVR - Section 5
	Evidence of the validity of the networks employed, including range checks, link length checks, and route choice evidence.	Highway LMVR - Section 8 Public Transport LMVR - Section 4.1.4
	Details of the segmentation used, including the rationale for that chosen.	Highway LMVR - Section 4.9 Public Transport LMVR - Section 4.2.1
	Validation of the trip matrices, including estimation of measurement and sample errors.	Highway LMVR - Section 7 Public Transport LMVR - Section 6.2.1 and 6.3.2
	Details of any 'matrix estimation' techniques used and evidence of the effect of the estimation process on the scale and pattern of the base travel matrices.	Highway LMVR - Sections 9.1-9.3 Public Transport LMVR – N/A
	Validation of the trip assignment, including comparisons of flows (on links and across screenlines/cordons) and, for road traffic models, turning movements at key junctions.	Highway LMVR - Section 10.3 Public Transport LMVR - Section 6.2.2 and 6.3.3
	Journey time validation, including, for road traffic models, checks on queue pattern and magnitudes of delays/queues.	Highway LMVR - Section 10.4 Public Transport LMVR - Section 6.2.3 and 6.3.1
	Detail of the assignment convergence.	Highway LMVR - Section 10.5 Public Transport LMVR – N/A
	Present year validation if the model is more than 5 years old.	n/a
	A diagram of modelled traffic flows, both in the immediate corridor and other relevant corridors.	Appendix 2.1, Appendix B
A Demand Model Report to include:		GBATS4M Model Update, Demand Model Report
	Where no Variable Demand Model has been developed evidence should be provided to support this decision (e.g. follow guidance in WebTAG M2 Variable Demand Modelling – section 2.2).	n/a
	Description of the demand model.	Section 3
	Description of the data used in the model building and validation.	Section 4
	Details of the segmentation used, including the rationale for that chosen. This should include justification for any segments remaining fixed.	Section 3.4
	Evidence of model calibration and validation and details of any sensitivity tests.	Section 5
	Details of any imported model components and rationale for their use.	n/a
	Validation of the supply model sensitivity in cases where the detailed assignment models do not iterate directly with the demand model.	n/a
	Details of the realism testing, including outturn elasticities of demand with respect to fuel cost and public transport fares.	Section 5.4

Item		Section/Page
	Details of the demand/supply convergence.	Section 5.2
A Forecasting Report to include:		GBATS4M DM report – GBATS4M MetroWest Do Minimum Forecast Report Appendix 2.1 – MetroWest Phase 1 OBC, Forecasting Report
	Description of the methods used in forecasting future traffic demand.	GBATS4M DM report – Section 2.2
	Description of the future year demand assumptions (e.g. land use and economic growth - for the do minimum, core and variant scenarios).	GBATS4M DM report – Section 3
	An uncertainty log providing a clear description of the planning status of local developments	GBATS4M DM report – Appendix A
	Description of the future year transport supply assumptions (i.e. networks examined for the do minimum, core scenario and variant scenarios).	GBATS4M DM report – Section 4
	Description of the travel cost assumptions (e.g. fuel costs, PT fares, parking).	GBATS4M DM report – Section 5
	Comparison of the local forecast results to national forecasts, at an overall and sectoral level.	Appendix 2.1 – section 3.5
	Presentation of the forecast travel demand and conditions for the core scenario and variant scenarios including a diagram of forecast flows for the do-minimum and the scheme options for affected corridors.	Appendix 2.1 – section 3 & 4 & Appendix B
	If the model includes very slow speeds or high junction delays evidence of their plausibility.	n/a
	An explanation of any forecasts of flows above capacity, especially for the do-minimum, and an explanation of how these are accounted for in the modelling/appraisal.	Appendix 2.1 – section 3
	Presentation of the sensitivity tests carried out (to include high and low demand tests).	MetroWest Phase 1 OBC, Economic Assessment Report – section 5

Cost Benefit Analysis

Item	Section/Page
A clear explanation of the underlying assumptions used in the Cost Benefit Analysis.	Sec 2.5
Information on local factors used. For example the derivation of growth factors and annualisation factors in TUBA (to include full details of any calculations).	Appendix 2.1, sections 2 & 4
A diagram of the network (if COBALT used).	Appendix 2.3, section 2
Information on the number of junctions modelled (if COBALT used), for both the do-minimum and the do-something.	n/a
Details of assumptions about operating costs and commercial viability (e.g. public transport, park and ride, etc.).	Appendix 2.2, section 3

Item	Section/Page
Full appraisal inputs/outputs (when used, **COBALT and/or TUBA input and output files in text format should be supplied**).	Separate files supplied
Evidence that TUBA/COBALT warning messages have been checked and found to be acceptable.	Not available
Spatial (sectoral) analysis of TEE benefits.	Appendix 2.1 section 4 & Appendix 2.4 section 3
Details of the maintenance delay costs/savings.	Appendix 2.1, appendix A
Details of the delays during construction.	Appendix 2.1, appendix A
Appraisal tables (AMCB, PA, TEE) **in excel format.**	Separate files supplied

Economic Case Assessment

Item	Section/Page
A comprehensive Appraisal Summary Table **in excel format.**	Separate files supplied
Assessment of Economic impacts.	Sec 2.6
Economic impacts worksheets.	Appendix 2.5
Assessment of Environmental impacts, to include an environmental constraints map.	Sec 2.7
Environmental impacts worksheets.	Appendix 2.5
Assessment of Safety impacts and the assumed accident rates presented (when used, COBALT output should be provided).	Appendix 2.3
Assessment of Social impacts.	Sec 2.8
Assessment of Distributional impacts.	Appendix 2.4
Social and distributional impacts worksheets (including DI screening pro forma).	Appendix 2.4
Cost pro forma	Separate files supplied