
Appendix 3.4
Stage 2 Detailed
Assessment Matrices

Summary of Economy Appraisal

Appraisal Matrix - Economy

Option	Transport Efficiency and Effectiveness		Wider Economic Impacts	Funding Impacts	Average Score	High-level ranking
	Journey time savings on the N2 through Slane	Value for Money				
Alt A1	4.2	1	4	4	3.3	Least Preferred
Alt A2	4.4	1	4	4	3.4	Least Preferred
Alt A3	4.3	5.4	4	4	4.4	Poor
Alt A4	4.3	4	4	1	3.3	Least Preferred
Option B	5.3	5.5	4.5	4	4.8	Intermediate
Option C	5.4	5.9	4.5	4	5.0	Intermediate
Option D	5.5	5.9	4.5	4	5.0	Intermediate
Option E	6.8	6.2	4.5	4	5.4	Good
Option F	6.7	6.8	4.5	4	5.5	Preferred
Option G	6.3	7	4.5	4	5.5	Preferred
Option H	6.6	7	4.5	4	5.5	Preferred
Option EG	6.6	7	4.5	4	5.5	Preferred

Summary of Environmental Appraisal

The environmental assessment preferences are summarised below in **Human Environment**, **Natural Environment**, and in **Overall Environmental Assessment**, in the form of a matrix.

Human Environment Overall Scores

Human Environment										
Option	Air Quality & Climate	Noise & Vibration	Traffic Assessment*	Archaeological & Cultural Heritage	UNESCO World Heritage Property	Architectural Heritage	Non-agricultural Properties	Agriculture	Landscape & Visual	Overall Score
Do-Minimum	4	4	4	4	4	3.25	3.5	4	4	34.75
Option A1	4	4	3.25	4	4	3.75	3.5	4	4	34.5
Option A2	4	4	3.25	4	4	3.75	3.5	4	4	34.5
Option A3	4	4	3.25	4	4	3.75	3.5	4	4	34.5
Option A4	4	4	4.6	4	4	3.75	3.5	4	4	35.85
Option B	6	6	5.5	1.25	4	2	4.5	1	1.5	31.75
Option C	6	6	5.5	3	4	2	5	1	1.5	34
Option D	6	6	5.5	3	3	1	3	1	1.5	30
Option E	6	5	5	1.25	2.25	5	3	2	1.5	31
Option F	6	6	5	2	2	4	4	2	1.5	32.5
Option G	6	6	5	1.25	2	4	6	3	1	34.25
Option EG	6	6	5	1.75	2.5	4	5.5	3	2	35.75
Option H	6	6	5	2	2	4	6.5	2	1	34.5

* Note: the score for the Traffic Assessment is an average of the impact score for Slane village and the impact score for the wider area and road network, see **Section 8.4.4.2** in the *N2 Slane Bypass Option Selection Report (RPS for MCC, 2020)*.

VOL. 4 APPENDIX 3

Natural Environment Overall Scores

Natural Environment						
Option	Terrestrial Ecology	Aquatic Ecology	Soils & Geology	Hydrology & Hydrogeology	Waste	Overall Score
Do-Minimum	4	4	4	4	4	20
Options A1 - 4	4	4	4	4	4	20
Option B	1	1.5	3	2	3.5	11
Option C	1	1.5	3	3	3	11.5
Option D	1	1.5	3	3	3.5	12
Option E	1.5	1	3	3	2.75	11.25
Option F	1	2	3	3	3	12
Option G	1	2	3	3.5	3	12.5
Option EG	1.75	2	3	3.5	3	13.25
Option H	1	1.5	3	3	3	11.5

Overall Environmental Summary

Option	Air Quality & Climate	Noise & Vibration	Traffic Assessment*	Terrestrial Ecology	Aquatic Ecology	Soils & Geology	Hydrology & Hydrogeology	Landscape & Visual	Archaeological & Cultural Heritage	UNESCO World Heritage Property	Architectural Heritage	Non-Agricultural Properties	Agriculture	Waste
Do-Minimum	Least Preferred	Least Preferred	Least Preferred	Preferred	Preferred	Preferred	Preferred	Preferred	Preferred	Preferred	Intermediate	Intermediate	Preferred	Preferred
A1	Least Preferred	Least Preferred	Least Preferred	Preferred	Preferred	Preferred	Preferred	Preferred	Preferred	Preferred	Intermediate	Intermediate	Preferred	Preferred
A2	Least Preferred	Least Preferred	Least Preferred	Preferred	Preferred	Preferred	Preferred	Preferred	Preferred	Preferred	Intermediate	Intermediate	Preferred	Preferred
A3	Least Preferred	Least Preferred	Least Preferred	Preferred	Preferred	Preferred	Preferred	Preferred	Preferred	Preferred	Intermediate	Intermediate	Preferred	Preferred
A4	Least Preferred	Least Preferred	Intermediate	Preferred	Preferred	Preferred	Preferred	Preferred	Preferred	Preferred	Intermediate	Intermediate	Preferred	Preferred
B	Intermediate	Preferred	Preferred	Least Preferred	Least Preferred	Intermediate	Least Preferred	Least Preferred	Least Preferred	Preferred	Least Preferred	Intermediate	Least Preferred	Preferred
C	Intermediate	Preferred	Preferred	Least Preferred	Least Preferred	Intermediate	Intermediate	Least Preferred	Intermediate	Preferred	Least Preferred	Preferred	Least Preferred	Intermediate
D	Preferred	Preferred	Preferred	Least Preferred	Least Preferred	Intermediate	Intermediate	Least Preferred	Intermediate	Intermediate	Least Preferred	Least Preferred	Least Preferred	Preferred
E	Preferred	Intermediate	Preferred	Intermediate	Least Preferred	Intermediate	Intermediate	Least Preferred	Least Preferred	Least Preferred	Preferred	Least Preferred	Intermediate	Least Preferred
F	Preferred	Preferred	Preferred	Least Preferred	Intermediate	Intermediate	Intermediate	Least Preferred	Intermediate	Least Preferred	Preferred	Intermediate	Intermediate	Intermediate
G	Preferred	Preferred	Preferred	Least Preferred	Intermediate	Intermediate	Intermediate	Least Preferred	Least Preferred	Least Preferred	Preferred	Preferred	Intermediate	Intermediate
EG	Preferred	Preferred	Preferred	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Least Preferred	Preferred	Preferred	Intermediate	Intermediate
H	Preferred	Preferred	Preferred	Least Preferred	Least Preferred	Intermediate	Intermediate	Least Preferred	Intermediate	Least Preferred	Preferred	Preferred	Intermediate	Intermediate

Summary of Accessibility & Social Inclusion Appraisal

Appraisal Matrix – Accessibility & Social Inclusion

Route Option	Vulnerable Users	Deprived Geographical Areas	Overall
Alt A1	4.5	4	Least Preferred
Alt A2	5	4	Preferred
Alt A3	4.5	4	Least Preferred
Alt A4	4.5	4	Least Preferred
Option B	5	4	Preferred
Option C	5	4	Preferred
Option D	5	4	Preferred
Option E	5	4	Preferred
Option F	5	4	Preferred
Option G	5	4	Preferred
Option H	5	4	Preferred
Option EG	5	4	Preferred

Summary of Integration Appraisal

Options Integration Appraisal sub-criterion Scores

Option	Transport Network Integration			Transport Strategy		Landuse Integration	Geographical Integration		Other Government Policy	Average Score	Overall performance against Integration objectives
	Strategic Network	Transport modes	Sustainable Transport	Policy support at all levels	Maximize value of N2	Landuse Strategy in Local Plan	Northern Ireland	TEN-T, Ports & Airports	Regional Balance		
Alt A1	2	4	4.5	5	2	3	4.4	3.9	4	3.6	Poor
Alt A2	2	4	4.5	5	2	2	4.4	3.9	4	3.5	Least Preferred
Alt A3	4	4	4.5	5	3	3	4.4	3.9	4	4.0	Intermediate
Alt A4	3	4	4.5	5	2.5	4	4.3	3.7	4	3.9	Poor
Option B	6	4	5	7	7	5	4.6	4.0	4	5.2	Good
Option C	6	4	5	7	7	5	4.7	4.1	4	5.2	Good
Option D	6	4	5	7	7	5	4.8	4.1	4	5.2	Good
Option E	6	4	5	7	7	5	5.6	4.3	4	5.3	Preferred
Option F	6	4	5	7	7	5	5.5	4.2	4	5.3	Preferred
Option G	6	4	5	7	7	5	5.4	4.2	4	5.3	Preferred
Option H	6	4	5	7	7	5	5.5	4.2	4	5.3	Preferred
Option EG	6	4	5	7	7	5	5.5	4.2	4	5.3	Preferred

Summary of Physical Activity Appraisal

Appraisal Matrix – Physical Activity

Route Option	Physical Activity	Overall
Alt A1	4	Least Preferred
Alt A2	4	Least Preferred
Alt A3	4	Least Preferred
Alt A4	4	Least Preferred
Option B	5	Preferred
Option C	5	Preferred
Option D	5	Preferred
Option E	5	Preferred
Option F	5	Preferred
Option G	5	Preferred
Option H	5	Preferred
Option EG	5	Preferred

Overall Stage 2 Appraisal Matrix

Appraisal Matrix – Overall

Option	Economy	Environment	Safety	Integration	Accessibility & Social Inclusion	Physical Activity
Alt A1	Least Preferred	Good	Least Preferred	Poor	Least Preferred	Least Preferred
Alt A2	Least Preferred	Good	Least Preferred	Least Preferred	Preferred	Least Preferred
Alt A3	Poor	Good	Least Preferred	Intermediate	Least Preferred	Least Preferred
Alt A4	Least Preferred	Good	Least Preferred	Poor	Least Preferred	Least Preferred
Option B	Intermediate	Least Preferred	Preferred	Good	Preferred	Preferred
Option C	Intermediate	Least Preferred	Preferred	Good	Preferred	Preferred
Option D	Intermediate	Least Preferred	Preferred	Good	Preferred	Preferred
Option E	Good	Poor	Preferred	Preferred	Preferred	Preferred
Option F	Preferred	Least Preferred	Preferred	Preferred	Preferred	Preferred
Option G	Preferred	Intermediate	Preferred	Preferred	Preferred	Preferred
Option H	Preferred	Intermediate	Preferred	Preferred	Preferred	Preferred
Option EG	Preferred	Good	Preferred	Preferred	Preferred	Preferred