

APPENDIX 11 – MULTI-CRITERIA ANALYSIS WORKSHOP MATERIAL
AND LIST OF ATTENDEES

NOTES TO ACCOMPANY DRAFT AGENDA

PEKA PEKA TO OTAKI RoNS ALTERNATIVE CORRIDORS REVIEW WORKSHOP

Tuesday 7th June 2011, 9:30am to 3:30pm
Venue: Majestic Centre, Willis Street, Wellington

1. These notes provide background for the workshop for next week. At the start of the workshop there will be a chance to talk through the purpose of the workshop and the process for the day, but if you have questions or issues that you want to discuss in advance, please contact me (details below).
2. The workshop is intended to develop and apply a multi-criteria analysis (MCA) on the four alternative corridors that have been developed earlier in this process, including the currently-preferred option. It is important that we come with open minds and work collaboratively with questioning and testing of the values and issues around all the options we are looking at.
3. The alternative corridors that we will be assessing are those in the April 2011 Draft Technical Feasibility report. To avoid confusion, we will be using the same corridor labeling as in that report:
 - Alternative A – Eastern Foothills
 - Alternative B – Eastern Plain
 - Alternative C – Western
 - Alternative D – Central (present option)
4. The MCA approach for this workshop is different from the MCAT, which some of you may be familiar with, which has been developed and used elsewhere in the Peka Peka to Otaki project. This is because it is being undertaken at a different (more general) level and for the purpose of comparing alternative routes, rather than detailed options for parts of routes. The two approaches are inherently compatible, and MCA is always only an assistant to decision-making, and not a method of actually making a decision.
5. The attributes the workshop is looking at are the advantages and disadvantages, or positive and negative effects, for the items listed in the Agenda. We will discuss the list early in the workshop to decide whether all attributes are appropriate and meaningful for an assessment of alternatives; whether some should be split into more than one, or whether some should be combined.

Note that it is ideal to have 10 to 12 attributes for a MCA, so we have about the right number. Also, we will be weighting the attributes later in the process, so if some attributes seem less important, they can be given a lower weighting.
6. In terms of “scoping” the attributes and what needs to be taken into account under each attribute heading, we are relying on the expert advisor to guide the workshop on that, and there will be an opportunity to discuss the scope of each attribute during the workshop (i.e.

during the presentation session). We may want to break down and analyse the attribute under several headings (for example, using some of the MCA secondary criteria) or by section of corridor, and recombine them with a single overall score per route alternative. We will document the scope of each attribute as part of the workshop record.

7. We are asking each expert (initials on the agenda) to come prepared to explain their aspect and discuss their preliminary scoring for each corridor. There will be a maximum of 5 to 10 minutes for each presentation, followed by discussion and scoring (or we can leave all scoring until the end). Presentations (simple power-point) would be good, but there will be maps, aerials; etc available for people to refer/talk to for those who haven't organised that.
8. We will score each attribute as a group, on a 1 to 5 scale as set out below (note: cost is not amenable to this scale and will be scored on a relative basis). The preliminary (++) to (-) scoring that experts have done will be a guide, but the workshop (rather than the expert alone) should do the scoring. Ideally we will reach consensus on a score for each attribute, but if we can't, we will note the different views and use that for sensitivity analysis at a later stage. We will review the scores at the end of the session to make sure that we are all comfortable with them.

SCORE	DESCRIPTION
1	The corridor option presents few difficulties on the basis of the attribute being evaluated, taking into account reasonable mitigation proposals. There may be significant benefits in terms of the attribute.
2	The corridor option presents only minor areas of difficulties on the basis of the attribute being evaluated, taking into account reasonable mitigation proposals. There may be some benefits in terms of the attribute.
3	The corridor option presents some areas of reasonable difficulty in terms of the attribute being evaluated. Effects cannot be completely avoided. Mitigation is not readily achievable at reasonable cost, and there are few or no apparent benefits.
4	The corridor option includes extensive areas of difficulty in terms of the attribute being evaluated, which outweigh perceived benefits. Mitigation is not readily achievable.
5	The corridor option includes extreme difficulties in terms of achieving the project on the basis of the attribute being evaluated.

9. We will be endeavoring to develop a "workshop-agreed" weighting system for the attributes towards the end of the workshop. This will be complemented in later analyses by other weighting systems to make sure we have a robust outcome.
10. I look forward to meeting and working with you next Tuesday.

Sylvia Allan Phone: 021 665 155 sylvia.allan@ihug.co.nz

DRAFT AGENDA

PEKA PEKA TO OTAKI RoNS ALTERNATIVE CORRIDORS REVIEW WORKSHOP

Tuesday 7th June 2011, 9:30am to 3:30pm

Venue: Level 9, Majestic Centre, Willis Street, Wellington

Person	Item	Approx. Time
All	Introductions, housekeeping	9:30 – 9:45am
SA	Purpose of day (confirm agenda, approach, background to MCA, review precirculated notes)	9:45 – 10:00am
PC, SdR	Description and explanation of Corridors (how we got them and what they're like)	10:00 – 10:15am
TC	Technical feasibility investigation and findings	10:15 – 10:30am
	Morning Tea	10:30 – 10:45am
SA	Discussion of Attributes and Scoring System	10:45 – 11:00am
As listed	Presentations/Discussions about Attributes and Scoring of Attributes <ul style="list-style-type: none">• Landscape/Visual (DM^cK)• Ecology (JT)• Archaeology/Heritage (CB)• Cultural Values (NT)• Social/Community Impacts (EC)• District Plan/Urban Growth Fit (EC/PC)	11:00 – 12:30pm
	Lunch	12:30 – 1:00pm
As listed	<ul style="list-style-type: none">• Transport Effectiveness/Fit with Project Objectives(DD)• Effect on Lifelines (SdR)• Natural Hazards Effects (WB)• Productive Landuse Effects (TM)• Specific Land Ownership Effects (SdR)• Constructability (SdR)• Cost (SdR) Review of scores	1:00 – 2:30pm
SA	Weighting of Attributes and Next Steps	2:30 – 3:00pm
TC	Overall Project Update	3:00 – 3:30pm

Peka Peka to Otaki RoNS Alternative Corridor Review

MCA Workshop
7/6/2011

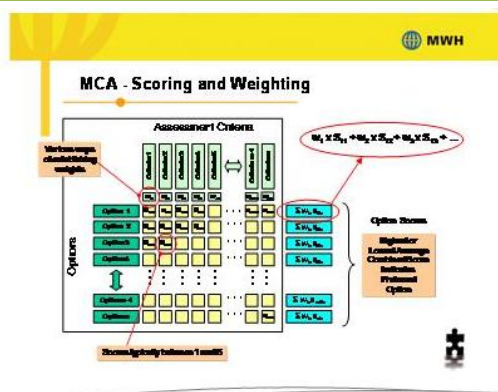


PURPOSE OF DAY

- Analyse four alternatives identified from earlier work
- Carefully consider relevant information obtained to date
- Apply MCA process in structured, defensible manner
- Keep notes of key points



MCA PROCESS



PROCESS TO DATE

- Review of alternatives that were considered in previous investigations
- Identified four alternatives (from consultation process)
- Preliminary technical feasibility investigations
- Specialist review and indicative “scoring”



WORKSHOP PROCESS

- Model is:

Presentation by Nominated Person



Discussion/questions (general)



Discussion/scoring

- We will work towards consensus in scoring if possible
- Scores = raw data for further analysis
- If there are strongly-held different views, they will be recorded and used in sensitivity analysis
- Key points leading to scores to be recorded



WORKSHOP PROCESS cont...

- Decisions to be made now:
 - All discussion now then scoring; group attributes and score; or one by one?
 - Any obvious changes to any attributes?
 - Order of attributes?
- Later:
 - Opportunity to quickly review scores
 - Develop workshop weighting of attributes



APPLYING SCORES

- Basically 1 = Good, 5 = Bad
- Each option must be scored for each attribute
- Can't use "0" or NA, as it would have a positive implication
- Don't need to use all scores in range for any (or all) attributes



PEKA PEKA TO OTAKI RONS – ALTERNATIVE CORRIDOR REVIEW

MCA WORKSHOP- PARTICIPANT NOTESHEET

1 June 2011

Attribute	Alternative A – Eastern Foothills	Alternative B – Eastern Plain	Alternative C – Western	Alternative D – Central
Landscape/Visual				
Ecology				
Archaeology/Heritage				
Cultural Values				
Social/Community Impacts				

District Plan/Urban Growth Fit				
Transport Effectiveness/Fit with Project Objectives				
Effects on Lifelines				
Natural Hazard Effects				
Productive Landuses				
Specific Land Ownership				
Constructability				
Cost				

NZTA 440/442PN

Assessment of Alternative Corridors Workshop

7 June 2011

Time: 9:30am – 4pm
Venue: Opus Board Room, Level 9 Majestic Centre

Attendees:	Sylvia Allan	(SA)	APRL
	Deepak Rama	(DR)	NZTA
	Simon de Rose	(SdR)	Opus
	David Dunlop	(DD)	Opus
	Grant Webby	(GW)	Opus
	Cathryn Barr	(CB)	Opus
	Niketi Toataua	(NT)	Opus
	John Turner	(JT)	Opus
	Erin Chalk	(EC)	Opus (Minutes)
	Tony Coulman	(TC)	Opus
	Rowan Oliver	(RO)	NZTA
	David McKenzie	(DM)	Opus
	Peter Coop	(PC)	Urban Perspectives
	Vanessa Browne	(VB)	URS
	Rebecca Beals	(RB)	Opus
	Andy Quinn	(AQ)	NZTA
	Tabitha Manderson	(TM)	Opus
	Steve Oldfield	(SO)	MWH