

## **Appendix I MCA Scoring Scale**

## Investment Objective Scoring Scale

The scoring has been based on a +3 to -3 scale with 0 typically representing no change from the existing conditions. The scale is subjective with +3 indicating a high level of benefits and -3 indicating significant disbenefits.

Attribute		Scoring Scale						
		+3	+2	+1	0	-1	-2	-3
Connectivity	Education	Good improvement	Moderate improvement	Small improvement	No change	Slower travel	Peak period congestion	Congestion all day
	Health	Good improvement	Moderate improvement	Small improvement	No change	Slower travel	Peak period congestion	Congestion all day
	Retail	Good improvement	Moderate improvement	Small improvement	No change	Slower travel	Peak period congestion	Congestion all day
	Recreation	Good improvement	Moderate improvement	Small improvement	No change	Slower travel	Peak period congestion	Congestion all day
	Employment	Good improvement	Moderate improvement	Small improvement	No change	Slower travel	Peak period congestion	Congestion all day
Safety	Pedestrians	Separated paths	Safe routes	Safe crossing	Existing	Reduced crossing opportunities		No safe crossing opportunities
	Cyclist	Separated paths	Safe routes	Safe crossing	Existing	Reduced crossing opportunities		No safe crossing opportunities
	Light vehicles	Low side road delays, free-flow on SH1	Reduced delays	Safe merge	Existing	Increased risk-taking behaviour		
	Heavy vehicles	Low side road delays, free-flow on SH1	Reduced delays	Safe merge	Existing	Increased risk-taking behaviour		
Travel Choice	Pedestrian routes	4 wide paths	3 wide paths	2 wide paths	2 narrow paths	1 shared path	1 wide path	1 narrow path
	Cycle routes	4 wide / shared paths	3 wide / shared paths	2 wide / shared paths	Existing			
	Bus service	High frequency service	Moderate frequency service	Low frequency service	No service			
	Emergency services	Tinwald East (direct)	Tinwald east (indirect)	Tinwald west	Existing	Slow SH1	Peak period congestion	Congestion all day
Economic Prosperity	Reliable Journey Times	+/- 10sec	+/- 20sec	+/- 30sec	+/- 40sec	+/- 1.0 min	+/- 1.5 min	+/- 2.0 min
	SH1 Average Speed	+10km/h	+6km/h	+3km/h		-3km/h	-6km/h	-10km/h
	Side Road delays	Lower SH1 Vols			No change			High SH1 volumes
	Network resilience	2 all mode bridges	Active & all mode bridge	Improved bridge	1 bridge			

### Notes

- The scoring for **connectivity** broadly reflects the ease to which access to different activities from Tinwald will change with each option. The scoring reflects both increased route choices and reduced travel distances.
- For **safety**, the assessment considers improvements to facilities that will provide safety benefits such as wider cycle paths or separated paths, reductions in side road delays that will result in less risk-taking behaviour by drivers. It has been recognised that there have been relatively few serious or fatal injuries recorded on the existing SH1 corridor over the last five years.

- The assessment of **travel choice** has been based on how individual options increase route choice compared with the current situation.
- **Economic prosperity** is dependent upon reliable travel times and moderate speeds on SH1 through Ashburton and Tinwald. The assessment also considers ease of access to SH1 and network resilience.

**IDMF Criteria – Scoring Scale**

	Attribute	Scoring Scale						
		+3	+2	+1	0	-1	-2	-3
Opportunities and Effects	Environmental effects	Significant positive effect	Moderate positive effect	Minor positive effect	No effect	Minor adverse effect	Moderate adverse effect	Significant adverse effect
	Social and cultural impacts	Significant positive effect	Moderate positive effect	Minor positive effect	No effect	Minor adverse effect	Moderate adverse effect	Significant adverse effect
	Climate Change mitigation	Reduces car travel			No change			Increases car travel
	Climate change	No risk						High risk
	Cumulative impacts with other projects	Significant positive effect	Moderate positive effect	Minor positive effect	No effect	Minor adverse effect	Moderate adverse effect	Significant adverse effect
	Impacts on Te Ao Māori	Significant positive effect	Moderate positive effect	Minor positive effect	No effect	Minor adverse effect	Moderate adverse effect	Significant adverse effect
	Property impacts	No property required		Minor land purchase		Moderate land purchase		Significant land purchase
Other Criteria	Technical Difficulty	Simple			Moderate			Difficult / complex
	Safety and Design	Eliminates all safety risks						No mitigation for risks
	Consentability	Simple			Moderate			Difficult / complex
	Scheduling	0-2 years			2-5 years			5+ years
	Cost	<\$1M	<\$2M	<\$3M	<\$5M	<\$20M	<\$50M	>\$50M