Critical success factorsThings an option must have if it is to be considered further.

Reduction in bus-on-bus congestion	
Reduction in PT journey times along the PT Spine	
Increase in reliability of PT journeys along the PT Spine	
Increase in PT patronage in Wellington city	
Increase in PT Spine corridor carrying capacity	

Multi-criteria analysis framework

The criteria with which the options will be evaluated

ILM "Strategic Response"		Project objective	Reference	Criteria	Measure	Source
			1.1	PT Spine corridor throughput	Bus patronage + private vehicle trips, along PT Spine, AM Peak	Spine Study
A transport network that enables			1.2	Ability to drive intensification of development and economic activity	Qualitative	Working group
Wellington city to unlock its economic potential	1	Increased economic activity	1.3	Increase in the value of land use along the PT Spine	Qualitative; informed by estimated change in land values in 800m circles around the BRT stations	Council valuation database
			1.4	Increase in residential population along the PT Spine	Qualitative; informed by population growth along BRT corridors	
			2.1	Reduction in PT journey times	PT travel times, AM Peak - Newtown and Kilbirnie to Railway Station	Spine Study
			2.2	Increased reliability of PT journeys	Variation in PT Spine travel times, AM peak	Spine Study
		language and secular and all and secure als	2.3	Reduction in vehicle operating costs	Vehicle operating costs, based on bus kms travelled	Spine Study
	2	Improved multi-modal network efficiency	2.4	Improvement in ability to move goods and services around the city	Percent of HCV travelling in congested conditions - (AM peak)	Transport model outputs
A network that reliably and efficiently			2.5	Operational resilience (level of interaction with other modes)	Qualitative	Working group
moves people and freight		Improved accessibility		Increase in PT Spine corridor carrying capacity	Total corridor capacity along BRT route	Spine Study
	3		3.2	Improved options for mode choice	Qualitative	Working group
	3		3.3	Reduction in bus-on-bus congestion	Reliability measures or bus average travel speeds (kph)	
			3.4	Reduction in PT journey times	PT travel times, AM Peak - Newtown and Kilbirnie to Railway Station	Spine Study
	4	Increased PT patronage	4.1	Increase in PT patronage in Wellington city	PT trips (all modes) across Wellington region - AM peak	Spine Study
			4.2	Increase in PT mode share in Wellington city	PT mode share across Wellington region - AM peak	Spine Study
A public transport system that offers users	_	Improved PT user experience (incl	5.1	Increase in PT user satisfaction	Qualitative	Working group
a competitive choice for travel	5	potential users)	5.2	Increase in ease of use of PT	Qualitative	Working group
	c	Minimisa amissians	6.1	Assessment of emissions (buses)	Qualitative; informed by journey times and bus km travelled	
	6	Minimise emissions	6.2	Assessment of emissions (mode shift)	Qualitative; informed by PT mode shift AM peak and bus/car emissions info	
		Minimise impacts on physical environment / amenity	7.1	Land take	Qualitative - assisted by technical specialists	Working group
			7.2	Construction effects	Length of construction (months) and/or number of properties along BRT routes which are affective and the second se	Working group
			7.3	Visual effects	Qualitative	Working group
			7.4	Noise effects	Qualitative - assisted by technical specialists	Working group
			7.5	Heritage effects	Qualitative	Working group
	7		7.6	Loss of town belt	Qualitative	Working group
	'		7.7	Ecological effects	Qualitative	Working group
			7.8	Safety impacts	Qualitative - assisted by technical specialists	Working group
Not specifically included in ILM			7.9	Impacts on residential amenity	Qualitative	Working group
			7.10	Localised urban centre commercial impacts	Qualitative	Working group
			7.11	Loss of parking	Qualitative assessment, based on street layour assumptions	Working group
			7.12	Traffic and transport effects	Quantitative - with technical specialists	Working group
			8.1	Benefits	Quantitative - sum of monetised EEM benefits	Spine Study
	8	Affordable / value for money		Capex	Total capital expenditure (land acquisition, construction, new buses)	Spine Study / QS
		And dubic / value for money	8.3	Opex + maintenance	Total opex (staffing, fuel, RUC, maintenance)	Spine Study / QS
			8.4	Rates impact	Projected annual average rates increase required to fund the BRT option	Working group
	9	Alignment / integration with other infrastructure & services	9.1	Alignment with strategic documents (eg GOS, RLTP, LTP, Urban Growth Plan)	Qualitative	Working group
		illiastructure & services	9.2	Alignment with specific projects (eg RONS, cycling)	Qualitative	Working group

2 Scoring

		Option 0	Option 1		Option 2			Option 3			Option 4		Option 5				
		Do minimum	Targeted bus priority and other modes improvement		Peak bus lanes & priority			Targeted bus lanes & priority			Full bus lanes & priority		Physically separated lanes & priority				
			To Newtown as soon as possible (given constraints), no Kilbirnie branch	Zb To Newtown as soon as possible (given constraints), no Kilbirnie branch	2b Full route as soon as possible (given constraints)	Za Full route, all delivered to conincide with Basin and Mt Vic tunnel improvements	To Newtown as soon as possible (given constraints), no Kilbirnie branch	Full route as soon as possible (given constraints)	3a Full route, all delivered to conincide with Basin and Mt Vic tunnel improvements	4b To Newtown as soon as possible (given constraints), no Kilbirnie branch	4 Full route as soon as possible (given constraints)	4a Full route, all delivered to conincide with Basin and Mt Vic tunnel improvements	5b To Newtown as soon as possible (given constraints), no Kilbimie branch	5 Full route as soon as possible (given constraints)	5a Full route, all delivered to conincide with Basin and Mt Vic tunnel improvements		
Objective	Criteria	Score	Score Comment	Score Comment 5	Score Comment	Score Comment	Score Comment	Score Comment S	score Comment	Score Comment S	Score Comment	Score Comment	Score Comment	core Comment	Score Comment		
	PT Spine corridor throughput	0	Small increase in throughput	1 Similar to 1	Lower throughput than 3b and 5b, since only operating at peak	Closer to 2b than 2a. The Kilbirnie branch more than offsets the delay.	2 No substantial difference from 5a	3 No substantial difference from 5b	3 No substantial difference from 5c	2 No substantial difference from 7a	3 No substantial difference from 7b	3 No substantial difference from 7c	Compared with 7b, same improvement from Newtown but less improvement from Kilbirnie	Large increase in throughput. Best amongst the options.	Closer to 7b than 7a. The Kilbirnie branch more than offsets the delay.		
	Ability to drive intensification of development and economic activity	0	Small improvement in accessibility and mobility, driving small improvements in economic activity	1 Similar to 1	Lower benefits than 3b and 5b, since only operating at peak	Closer to 2b than 2a. The Kilbirnie branch more than offsets the delay.	2 No substantial difference from 5a	3 No substantial difference from 5b	3 No substantial difference from 5c	2 No substantial difference from 7a	3 No substantial difference from 7b	3 No substantial difference from 7c	Compared with 7b, same benefit in central areas and Newtown but less benefit around Kilbirnie	Significant increase in accessibility and mobility, driving intensification and economic activity	Closer to 7b than 7a. The Kilbimie branch more than offsets the delay.		
Increased economic activit	Increase in the value of land use along the PT Spine	0	Small improvement in accessibility and mobility, driving small improvements in land value	1 Similar to 1	Lower benefits than 3b and 5b, since only operating at peak	Closer to 2b than 2a. The Kilbirnie branch more than offsets the delay.	2 No substantial difference from 5a	3 No substantial difference from 5b	3 No substantial difference from 5c	2 No substantial difference from 7a	3 No substantial difference from 7b	3 No substantial difference from 7c	Compared with 7b, same benefit in central areas and Newtown but less benefit around Kilbirnie	Significant increase in accessibility and mobility, driving increases in land values	Closer to 7b than 7a. The Kilbirnie branch more than offsets the delay.		
	Increase in residential population along the PT Spine	0	Small improvement in accessibility and mobility, driving small increases in residential population	1 Similar to 1	Lower benefits than 3b and 5b, since only operating at peak	Closer to 2b than 2a. The Kilbirnie branch more than offsets the delay.	2 No substantial difference from 5a	3 No substantial difference from 5b	3 No substantial difference from 5c	2 No substantial difference from 7a	No substantial difference from 7b	3 No substantial difference from 7c	Compared with 7b, same benefit in central areas and Newtown but less benefit around Kilbirnie	Significant increase in accessibility and mobility, driving increased residential population	Closer to 7b than 7a. The Kilbirnie branch more than offsets the delay.		
	Reduction in PT journey times	0	1 Small improvement in times	1 Similar to 1	Smaller aggregate time reduction than 3b and 5b, since only operating at peak	Closer to 2b than 2a. The Kilbirnie branch more than offsets the delay.	2 No substantial difference from 5a	3 No substantial difference from 5b	3 No substantial difference from 5c	2 No substantial difference from 7a	3 No substantial difference from 7b	3 No substantial difference from 7c	Compared with 7b, same improvement from Newtown but less improvement from Kilbirnie	Large improvement in journey times. Best amongst the options.	Closer to 7b than 7a. The Kilbirnie branch more than offsets the delay.		
	Increased reliability of PT journeys	0	1 Small improvement	1 Similar to 1	Lower reliability benefit than 3b and 5b, since only operating at peak	Closer to 2b than 2a. The Kilbirnie branch more than offsets the delay.	2 No substantial difference from 5a	3 No substantial difference from 5b	3 No substantial difference from 5c	2 No substantial difference from 7a	3 No substantial difference from 7b	3 No substantial difference from 7c	Compared with 7b, same improvement from Newtown but less improvement from Kilbirnie	3 No material congestion	Closer to 7b than 7a. The Kilbirnie branch more than offsets the delay.		
Improved multi-modal network efficiency	Reduction in vehicle operating costs	0	Small reduction due to faster bus journeys and mode shift	1 Similar to 1	Lower mode shift and journey time improvements than 3b & 5b, since only operating at peak	Closer to 2b than 2a. The Kilbirnie branch more than offsets the delay.	2 No substantial difference from 5a	3 No substantial difference from 5b	3 No substantial difference from 5c	2 No substantial difference from 7a	No substantial difference from 7b	3 No substantial difference from 7c	Lower decrease than 7b due to lack of a Kilbimie branch	35% decrease in bus operating costs relative to Option 0. Some decrease in car operating costs due to mode shift.	Closer to 7b than 7a. The Kilbirnie branch more than offsets the delay.		
	Improvement in ability to move goods and services around the city	0	Small improvement in mobility	1 Similar to 1	Lower improvement than 3b and 5b, since only operating at peak	Closer to 2b than 2a. The Kilbirnie branch more than offsets the delay.	2 No substantial difference from 5a	3 No substantial difference from 5b	3 No substantial difference from 5c	2 No substantial difference from 7a	3 No substantial difference from 7b	3 No substantial difference from 7c	Compared with 7b, same improvement in central areas and Newtown but less improvement around Kilbirnie	Significant increase in accessibility and mobility	Closer to 7b than 7a. The Kilbirnie branch more than offsets the delay.		
	Operational resilience (level of interaction with other modes)	0	0 No material differnce from Option 0	0 No material differnce from Option 0	0 No material differnce from Option 0	0 No material differnce from Option 0	0 No material differnce from Option 0	0 No material differnce from Option 0	0 No material differnce from Option 0	0 No material differnce from Option 0	0 No material differnce from Option 0	0 No material differnce from Option 0	Physical separation makes this much less resilient than Option 0, but only on Central & Newtown branches	-2 Physical separation makes this much less resilient than Option 0	Physical separation makes this much less resilient than Option 0		
	Increase in PT Spine corridor carrying capacity	0	1 Small increase in throughput	1 Similar to 1	Lower capacity than 3b and 5b, since only operating at peak	Closer to 2b than 2a. The Kilbirnie branch more than offsets the delay.	2 No substantial difference from 5a	3 No substantial difference from 5b	3 No substantial difference from 5c	2 No substantial difference from 7a	No substantial difference from 7b	3 No substantial difference from 7c	Compared with 7b, same capacity improvement from Newtown but less improvement from Kilbirnie	3 Large increase in capacity Best amongst the options.	Closer to 7b than 7a. The Kilbimie branch more than offsets the delay.		
Improved accessibility	Improved options for mode choice	0	1 Small improvement in PT journey times from Newtown	1 Similar to 1	Smaller option improvement than 3b and 5b, since only operating at peak	Closer to 2b than 2a. The Kilbirnie branch more than offsets the delay.	2 No substantial difference from 5a	3 No substantial difference from 5b	3 No substantial difference from 5c	2 No substantial difference from 7a	3 No substantial difference from 7b	3 No substantial difference from 7c	Compared with 7b, same improvement from Newtown but less improvement from Kilbirnie	Large improvement in journey times. BPT a more feasible option for more people.	Closer to 7b than 7a. The Kilbirnie branch more than offsets the delay.		
	Reduction in bus-on-bus congestion	0	1 Small improvement	1 Similar to 1	Lower congestion improvement than 3b and 5b, since only operating at peak	Closer to 2b than 2a. The Kilbirnie branch more than offsets the delay.	2 No substantial difference from 5a	3 No substantial difference from 5b	3 No substantial difference from 5c	2 No substantial difference from 7a	3 No substantial difference from 7b	3 No substantial difference from 7c	Compared with 7b, same improvement from Newtown but less improvement from Kilbirnie	3 No material congestion	Closer to 7b than 7a. The Kilbirnie branch more than offsets the delay.		
	Reduction in PT journey times	0	1 Small improvement in times	1 Similar to 1	Smaller aggregate time reduction than 3b and 5b, since only operating at peak	Closer to 2b than 2a. The Kilbirnie branch more than offsets the delay.	2 No substantial difference from 5a	3 No substantial difference from 5b	No substantial difference from 5c	No substantial difference from 7a	No substantial difference from 7b	3 No substantial difference from 7c	Compared with 7b, same improvement from Newtown but less improvement from Kilbirnie	Large improvement in journey times. Best amongst the options.	Closer to 7b than 7a. The Kilbirnie branch more than offsets the delay.		
Increased PT patronage	Increase in PT patronage in Wellington city	0	1 Small increase in patronage	1 Similar to 1	Lower patronage than 3b and 5b, since only operating at peak	Closer to 2b than 2a. The Kilbirnie branch more than offsets the delay.	2 No substantial difference from 5a	3 No substantial difference from 5b	3 No substantial difference from 5c	2 No substantial difference from 7a	No substantial difference from 7b	3 No substantial difference from 7c	Compared with 7b, same improvement from Newtown but less improvement from Kilbirnie	3 Large increase in patronage. Best amongst the options.	Closer to 7b than 7a. The Kilbirnie branch more than offsets the delay.		
	Increase in PT mode share in Wellington city	0	1 Small increase in PT mode share	1 Similar to 1	Lower mode share change than 3b and 5b, since only operating at peak	Closer to 2b than 2a. The Kilbirnie branch more than offsets the delay.	No substantial difference from 5a	3 No substantial difference from 5b	3 No substantial difference from 5c	2 No substantial difference from 7a	3 No substantial difference from 7b	3 No substantial difference from 7c	Compared with 7b, same improvement from Newtown but less improvement from Kilbirnie	Large improvement in mode share. Best amongst the options.	Closer to 7b than 7a. The Kilbirnie branch more than offsets the delay.		
Improved PT user	Increase in PT user satisfaction	0	No material improvement from do minimum	1 Similar to 1	Some improvement in user satisfaction - more than 1, but less than 5b	Some improvement in user satisfaction - more than 1, but less than 5c	Less improvement than 5a, due to piecemeal nature of solution	Less improvement than 5b, due to piecemeal nature of solution	Less improvement than 5c, due to piecemeal nature of solution	No substantial difference from 7a	3 No substantial difference from 7b	3 No substantial difference from 7c	Lack of Kilbirnie branch impacts wider network operations, making this significantly inferior to 7b	Significant improvement in all aspects of PT service on routes along the PT Spine	Closer to 7b than 7a. The Kilbirnie branch more than offsets the delay.		
experience (incl potential users)	Increase in ease of use of PT	0	No material improvement from do minimum	1 Small improvements in stop infrastructure	Small improvements in stop infrastructure	1 Small improvements in stop infrastructure	1 Small improvements in stop infrastructure	1 Small improvements in stop infrastructure	Small improvements in stop infrastructure	1 No substantial difference from 7a	3 No substantial difference from 7b	3 No substantial difference from 7c	Some improvement in station facilities, and some operational user improvements. Not including Kilbimie terminal improvements makes this subtantially inferior to	Significant improvement in station 3 facilities, and some operational user improvements	Closer to 7b than 7a. The Kilbirnie branch more than offsets the delay.		
			Small increase in PT journey times,		Slightly larger improvement in journey times from 1: enough to	Slightly larger improvement in journey times from 1: enough to							7b. Small improvement in emissions through travel time reductions.	Some reduction in emissions through large improvement in	Some reduction in emissions through large improvement in		
Minimise emissions	Assessment of emissions (buses)	0	but not enough to make a material difference to emissions	0 Similar to 1	make a small improvement in emissions	make a small improvement in emissions	No substantial difference from 5a		No substantial difference from 5c	1 No substantial difference from 7a	No substantial difference from 7b	No substantial difference from 7c	Lack of Kilbirnie branch makes this inferior to 7b. Some increase in PT mode share,	journey times. Journey time savings are more significant than mode shift changes.	are more significant than mode shift changes.		
	Assessment of emissions (mode shift)	0	Small increase in PT mode share, but not enough to make a material difference to emissions	0 Similar to 1	Some increase in PT mode share, but not enough to make a material difference to emissions	Some increase in PT mode share, 0 but not enough to make a material difference to emissions	Some increase in PT mode share, 0 but not enough to make a material difference to emissions	Some increase in PT mode share, but not enough to make a material difference to emissions	Some increase in PT mode share, but not enough to make a material difference to emissions	0 No substantial difference from 7a	No substantial difference from 7b	1 No substantial difference from 7c	but not enough to make a material offference to emissions. Lack of Kilbime branch makes this inferior to 7b.	Small reduction in emissions as a 1 result of a significant increase in PT mode share.	Small reduction in emissions as a result of a significant increase in PT mode share.		
	Land take	0	No more land take, relative to that in the do minimum	No more land take, relative to that in the do minimum	No more land take, relative to that in the do minimum	No more land take, relative to that in the do minimum	No more land take, relative to that in the do minimum	No more land take, relative to that in the do minimum	No more land take, relative to that in the do minimum	No more land take, relative to that in the do minimum	No more land take, relative to that in the do minimum	No more land take, relative to that in the do minimum	No more land take, relative to that in the do minimum	No more land take, relative to that in the do minimum	No more land take, relative to that in the do minimum		
	Construction effects	0	Minimal construction period & effects	-1 No material difference from 5a	-2 No material difference from 5b	-1 No material difference from 5c	-1 No material difference from 5a	-2 No material difference from 5b	-1 No material difference from 5c	-1 Less construction than 7a, since no physical separation	-2 Less construction than 7b, since no physical separation	-1 Less construction than 7c, since no physical separation	-2 Staged construction, but no Kilbimie effects	-3 Construction takes a number of years, as it occurs in stages	-2 Some construction effects, but all undertaken at the same time		
	Visual effects Noise effects	0	0 Minimal effects 0 Minimal effects	0 Minimal effects 0 Minimal effects	0 Minimal effects 0 Minimal effects	0 Minimal effects 0 Minimal effects	Minimal effects Minimal effects	0 Minimal effects 0 Minimal effects	0 Minimal effects 0 Minimal effects	0 Minimal effects 0 Minimal effects	Minimal effects Minimal effects	0 Minimal effects 0 Minimal effects	Some negative effects from physical separation of lanes Minimal effects	Some negative effects from physical separation of lanes Minimal effects	Some negative effects from physical separation of lanes Minimal effects		
	Heritage effects Loss of town belt	0	Minimal effects Minimal effects	Minimal effects Minimal effects	Minimal effects Minimal effects	Minimal effects Minimal effects	Minimal effects Some effects along Kent/Cembridge	Minimal effects Impact along Ruahine St and Kent/Cambridge Terraces, but lower	Minimal effects Impact along Ruahine St and Kent/Cambridge Terraces, but lower	Minimal effects Impact along Kent/Cambridge	0 Minimal effects Impact along Ruahine St and	Minimal effects Impact along Ruahine St and	Minimal effects Impact along Kent/Cambridge	Minimal effects Impact along Ruahine St and	0 Minimal effects Impact along Ruahine St and		
Minimise impacts on physical environment /	Ecological effects	0	0 Minimal effects	Minimal effects	0 Minimal effects	0 Minimal effects	Terraces, but fairly minimal Minimal effects	then 5b Minimal effects	then 5c Minimal effects	Terraces Minimal effects	Kent/Cambridge Terraces Minimal effects	Kent/Cambridge Terraces Minimal effects	Terraces O Minimal effects	Kent/Cambridge Terraces Minimal effects	Kent/Cambridge Terraces Minimal effects		
amenity	Safety impacts	0	0 Minimal impact	0 Minimal impact	0 Minimal impact	0 Minimal impact	0 Minimal impact	0 Minimal impact	0 Minimal impact	0 Minimal impact	0 Minimal impact	0 Minimal impact	Small safety improvements from physical separation	Small safety improvements from physical separation	1 Small safety improvements from physical separation		
	Impacts on residential amenity Localised urban centre commercial impacts	0	Minimal effects Minimal impact	Minimal effects Minimal impact	Minimal effects Minimal impact	0 Minimal effects 0 Minimal impact	Minimal effects Minimal impact	Minimal effects Minimal impact	Minimal effects Minimal impact	Minimal effects Minimal impact	Minimal effects Minimal impact	0 Minimal effects 0 Minimal impact	Some negative effects from physical separation of lanes	Some negative effects from physical separation of lanes -1 Small negative impact	Some negative effects from physical separation of lanes 1 Small negative impact		
	Localised urban centre commercial impacts Loss of parking	0	Minimal impact Minimal, if any, loss of parking	-1 Some loss of parking at peak times	-1 Some loss of parking at peak times	-1 Some loss of parking at peak times	-1 Loss of parking in some areas	Minimal impact Loss of parking in some areas	-1 Loss of parking in some areas	-2 Some loss of parking	-2 Some loss of parking	-2 Some loss of parking	-1 Small negative impact -2 Some loss of parking	-1 Small negative impact -2 Some loss of parking	-1 Small negative impact -2 Some loss of parking		
	Traffic and transport effects	0	Excludes some Basin Reserve roading improvements from Option 0, with some adverse traffic effects	Minimal effects on wider traffic	0 Minimal effects on wider traffic	0 Minimal effects on wider traffic	Small impacts on general traffic, including reduced turning movements and reduction in general road space	-1 Small impacts on general traffic, including reduced turning movements and reduction in general road space	Small impacts on general traffic, including reduced turning movements and reduction in general road space	Small impacts on general traffic, including reduced turning movements and reduction in general road space	Small impacts on general traffic, including reduced turning movements and reduction in general road space	-1 Small impacts on general traffic, including reduced turning movements and reduction in general road space	Some impacts on general traffic, including reduced turning movements and reduction in general road space	Some impacts on general traffic, including reduced turning movements and reduction in general road space	-2 Some impacts on general traffic, including reduced turning movements and reduction in general road space		
	Benefits	0	1 Smaller amount of benefit	Smaller amount of benefit	2 Similar amount of benefit to 5a and	Similar amount of benefit to 5a and	1 Smaller amount of benefit	Similar amount of benefit to 5a and	2 Similar amount of benefit to 5a and	Considerable benefits, but less than	3 Substantial benefits	3 Substantial benefits	Considerable benefits, but less than	3 Substantial benefits	3 Substantial benefits		
Affordable / value for	Capex	0	-1 Relatively small capex investment. Below \$50m.	-2 Large capex investment. Between \$50m and \$100m.	-2 Large capex investment. Between \$50m and \$100m.	Large capex investment. Between \$50m and \$100m.	-1 Relatively small capex investment. Below \$50m.	-1 Relatively small capex investment. Below \$50m.	-1 Relatively small capex investment. Below \$50m.	-2 Large capex investment. Between \$50m and \$100m.	Large capex investment. Between \$50m and \$100m.	Large capex investment. Between \$50m and \$100m.	-3 Substantial capex investment. Over \$100m.	Substantial capex investment. Largest of the options.	-3 Substantial capex investment. Over \$100m.		
money	Opex + maintenance Rates impact	0	Minimal reduction in annual opex. Smaller rates impact	Smaller reduction in annual opex. Below \$30m NPV.	Smaller reduction in annual opex. Below \$30m NPV. Large rates impact	Smaller reduction in annual opex. Below \$30m NPV. Large rates impact	1 Smaller reduction in annual opex. Below \$30m NPV. 1 Smaller rates impact	Smaller reduction in annual opex. Below \$30m NPV. Smaller rates impact	1 Smaller reduction in annual opex. Below \$30m NPV. 1 Smaller rates impact	1 Smaller reduction in annual opex. Below \$30m NPV. 2 Large rates impact	Large reduction in annual opex. Above \$30m NPV. Large rates impact	2 Large reduction in annual opex. Above \$30m NPV.	1 Smaller reduction in annual opex. Below \$30m NPV. Largest rates impact of the options. But capex partially offset by opex	Large reduction in annual opex. Above \$30m NPV.	Large reduction in annual opex. Above \$30m NPV.		
			Intention to improve PT services,	- '					,				saving.				
Alignment / integration wit other infrastructure &	Alignment with strategic documents (eg GOS, RLTP, LTP, Urban Growth Plan)	0	but not as well aligned with strategic documentation than Option 2 Does not integrate with RONS.	Peak-only nature of this solution makes it only slightly more aligned than Option 0	Peak-only nature of this solution makes it only slightly more aligned than Option 0	Peak-only nature of this solution makes it only slightly more aligned than Option 0	Piecemeal nature of this solution makes it only slightly more aligned than Option 0 Aligned with RONS. More	Piecemeal nature of this solution makes it only slightly more aligned than Option 0 Aligned with RONS. More	Piecemeal nature of this solution makes it only slightly more aligned than Option 0	1 Lack of physical separation makes this not as well-aligned as 7a	Lack of physical separation makes this not as well-aligned as 7b	Lack of physical separation makes this not as well-aligned as 7c	Lack of Kilbirnie branch makes this option less aligned to strategic priorities than 7b	Well aligned with strategic priorities around economic growth, improving PT patronage and overall PT services	PT patronage and overall PT services		
services	Alignment with specific projects (eg RONS, cycling)	0	Provides for additional cycling infrastructure in available roadspace.	Aligned with RONS. Option to allow cyclists to use bus lanes.	Aligned with RONS. Option to allow cyclists to use bus lanes.	Aligned with RONS. Option to allow cyclists to use bus lanes.	roadspace available for cycle infrastructure than 5 & 7. Cyclists could be allowed to use bus lanes.	roadspace available for cycle infrastructure than 5 & 7. Cyclists could be allowed to use bus lanes.	roadspace available for cycle infrastructure than 5 & 7. Cyclists could be allowed to use bus lanes.	Aligned with RONS. Cyclists could be allowed to use bus lanes.	Aligned with RONS. Cyclists could be allowed to use bus lanes.	Aligned with RONS. Cyclists could be allowed to use bus lanes.	Aligned with RONS. Will require additional roadspace to provide for cycle infrastructure.	Aligned with RONS. Will require additional roadspace to provide for cycle infrastructure.	Aligned with RONS. Will require additional roadspace to provide for cycle infrastructure.		

3 Aggregate Scoring

	Option 0	Option 1 Targeted bus priority	Option 2				Option 3			Option 5		Option 7			
	Do minimum	and other modes improvement	Pea	ak bus lanes & prio	rity	Targe	eted bus lanes & pr	iority	Fu	ull bus lanes & prior	ity	Physically	separated lanes 8	priority	
		1	2b	2	2a	3b	3	3a	4b	4	4a	5b	5	5a	
		To Newtown as soon as possible (given constraints), no Kilbirnie branch	To Newtown as soon as possible (given constraints), no Kilbirnie branch	Full route as soon as possible (given constraints)	Full route, all delivered to conincide with Basin and Mt Vic tunnel	To Newtown as soon as possible (given constraints), no Kilbirnie branch	Full route as soon as possible (given constraints)	Full route, all delivered to conincide with Basin and Mt Vic tunnel	To Newtown as soon as possible (given constraints), no Kilbirnie branch	' constraints)	Full route, all delivered to conincide with Basin and Mt Vic tunnel	To Newtown as soon as possible (given constraints), no Kilbirnie branch	Full route as soon as possible (given constraints)	Full route, all delivered to conincide with Basin and Mt Vic tunnel	
Scores by objective					improvements			improvements			improvements			improvements	
Objective	Scores ->														
1 Increased economic activity	0	1	1	2	2	2	3	3	2	3	3	2	3	3	
2 Improved multi-modal network efficiency	0	0.8	0.8	1.6 2	1.6	1.6	2.4	2.4	1.6	2.4	2.4	1.4	2	2	
3 Improved accessibility 4 Increased PT patronage	0	1	1	2	2	2	3	3	2	3	3	2	3	3	
5 Improved PT user experience (incl potential users)	0	0	1	1	1	1	1	1	1	3	3	1	3	3	
6 Minimise emissions	0	0	0	0.5	0.5	0.5	1	1	0.5	1.5	1.5	0.5	1.5	1.5	
7 Minimise impacts on physical environment / amenity	0	-0.08	-0.17	-0.25	-0.17	-0.25	-0.42	-0.33	-0.42	-0.58	-0.50	-0.75	-0.92	-0.83	
8 Affordable / value for money 9 Alignment / integration with other infrastructure & services	0	0.25	0.5 1.5	0.75 1.5	0.75 1.5	0.5 1.5	0.75 1.5	0.75 1.5	0.75 1.5	1.25	1.25	0.5 1.5	1	2	
Unweighted aggregate scores Unweighted score	0	0.4	0.7	1.2	1.2	1.2	1.7	1.7	1.2	2.1	2.1	1.1	2.0	2.0	
Weighted aggregate scores															
Weights by objective															
1 Increased economic activity	13%														
2 Improved multi-modal network efficiency	13%														
3 Improved accessibility 4 Increased PT patronage	13% 13%														
5 Improved PT user experience (incl potential users)	13%														
6 Minimise emissions	8%														
7 Minimise impacts on physical environment / amenity	8%														
8 Affordable / value for money	8%														
9 Alignment / integration with other infrastructure & services	8%														
Weighted scores															
Weighted score	0	0.5	0.8	1.4	1.4	1.3	1.9	1.9	1.3	2.3	2.3	1.3	2.2	2.2	

Option 3

Targeted bus lanes & priority

Option 5

Full bus lanes & priority

Option 7

Physically separated lanes & priority

Option 2

Peak bus lanes & priority

Option 0

Option 1

Targeted bus priority and other modes

		Do minimum	improvement	Peak bus lanes & priority			Targe	ted bus lanes & pri	ority	ru	i bus lanes & prior	ity	Physically separated lanes & priority			
			1	2b	2	2 a	3b	3	3 a	4b	4	4a	5b	5	5a	
			To Newtown as soon as	To Newtown as		Full route, all delivered to	To Newtown as		Full route, all delivered to	To Newtown as		Full route, all delivered to	To Newtown as		Full route, all delivered to	
			possible (given	soon as possible	Full route as soon	conincide with	soon as possible	Full route as soon as possible (given	conincide with	soon as possible	Full route as soon as possible (given	conincide with	soon as possible	Full route as soon	conincide with	
			constraints), no Kilbirnie	(given constraints),	as possible (given constraints)	Basin and Mt Vic	(given constraints),	constraints)	Basin and Mt Vic	(given constraints),	constraints)	Basin and Mt Vic	(given constraints),	as possible (given constraints)	Basin and Mt Vic	
			branch	no Kilbirnie branch	•	tunnel improvements	no Kilbirnie branch	,	tunnel improvements	no Kilbirnie branch	•	tunnel improvements	no Kilbirnie branch	•	tunnel improvements	
Scores by objective						improvements			improvements			improvements	L		improvements	
Objective		Scores ->														
Increased economic activity Improved multi-modal network efficients	ongy	0	0.8	0.8	2 1.6	2 1.6	1.6	3 2.4	3 2.4	1.6	3 2.4	3 2.4	1.4	3	3	
Improved multi-modal network emcil	ency	0	1	1	2	2	2	3	3	2	3	3	2	3	3	
Increased PT patronage		0	1	1	2	2	2	3	3	2	3	3	2	3	3	
Improved PT user experience (incl po Minimise emissions	tential users)	0	0	<u> </u>	0.5	0.5	0.5	1	1	0.5	3 1.5	3 1.5	0.5	3 1.5	3 1.5	
Minimise impacts on physical environ	nment / amenity	0	-0.08	-0.17	-0.25	-0.17	-0.25	-0.42	-0.33	-0.42	-0.58	-0.50	-0.75	-0.92	-0.83	
Affordable / value for money		0	0.25	0.5	0.75	0.75	0.5	0.75	0.75	0.75	1.25	1.25	0.5	1	1	
Alignment / integration with other in	frastructure & services	0	-0.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2	1.5	2	2	
Scores by criteria																
Objective	Criteria	Scores ->														
	PT Spine corridor throughput	0	1	1	2	2	2	3		2	3		2	3	3	
	Ability to drive intensification of	0	1	1	2	2	2	3	3	2	3	3	2	3	3	
Increased economic activity	development and economic activity Increase in the value of land use along the			-		_										
increased economic activity	PT Spine	0	1	1	2	2	2	3	3	2	3	3	2	3	3	
	Increase in residential population along	0	1	1	2	2	2	3	3	2	3	3	2	3	3	
	the PT Spine															
	Reduction in PT journey times	0	1	1	2	2	2	3	3	2	3	3	2	3	3	
	Increased reliability of PT journeys Reduction in vehicle operating costs	0	1	1 1	2	2 2	2	3	3	2	3	3	2	3	3	
Improved multi-modal network efficiency	Improvement in ability to move goods and	0	1	1	2	2	2	3	3	2	3	3	2	3	3	
	services around the city Operational resilience (level of interaction	Ů	-	-		-	_	,	Ĵ	_		Ĵ	-	Ĵ	Ĵ	
	with other modes)	0	0	0	0	0	0	0	0	0	0	0	-1	-2	-2	
	Increase in PT Spine corridor carrying															
	capacity	0	1	1	2	2	2	3	3	2	3	3	2	3	3	
Improved accessibility	Improved options for mode choice Reduction in bus-on-bus congestion	0	1	1	2	2 2	2	3	3	2	3	3	2	3	3	
	Reduction in PT journey times	0	1	1	2	2	2	3	3	2	3	3	2	3	3	
	T															
Increased PT patropage	Increase in PT patronage in Wellington city	0	1	1	2	2	2	3	3	2	3	3	2	3	3	
Increased PT patronage	Increase in PT mode share in Wellington	0	1	1	2	2	2	3	3	2	3	3	2	3	3	
	city															
Improved PT user experience (incl potential users)	Increase in PT user satisfaction Increase in ease of use of PT	0	0	1	1	1	1	1	1	1	3	3	1	3	3	
potential users)		U	U	1	1	1	1	1	1	1	3	3	1	3	3	
Minimise emissions	Assessment of emissions (buses)	0	0	0	1	1	1	2	2	1	2	2	1	2	2	
	Assessment of emissions (mode shift)	0	0	0	0	0	0	0	0	0	1	1	0	1	1	
	Land take	0	0	0	0	0	0	0	0	0	0	0	0	0	_0	
	Construction effects	0	0	-1	-2	-1	-1	-2	-1	-1	-2	-1	-2	-3	-2	
	Visual effects Noise effects	0	0	0	0	0	0	0	0	0	0	0	- <u>1</u>	-1 0	-1 0	
	Heritage effects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimise impacts on physical	Loss of town belt	0	0	0	0	0	0	-1	-1	-1	-2	-2	-1	-2	-2	
environment / amenity	Ecological effects Safety impacts	0	0	0	0	0	0	0	0	0	0	0	0 1	0 1	0 1	
	Impacts on residential amenity	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	
	Localised urban centre commercial	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	
	impacts Loss of parking	0	0	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	
	Traffic and transport effects	0	-1	0	0	0	-1	-1	-1	-1	-1	-1	-2	-2	-2	
	Benefits	0	1	1	2	2	1	2	2	2	3	3	2	3	3	
Affordable / value for money	Capex	0	-1	-2	-2	-2	-1	-1	-1	-2	-2	-2	-3	-3	-3	
, and addic, value for money	Opex + maintenance Rates impact	0	0	1	1	1	1	1	1	1	2	2	1	2	2	
	Inaces impact		1	2			1	1	1		2	2		2		
	Alignment with strategic documents (eg			1	1	1	1	1	1	1	2	2	2	3	3	
Alignment / integration with other	GOS, RLTP, LTP, Urban Growth Plan)					1	•	•			-	-				
infrastructure & services	Alignment with specific projects (eg RONS,	0	-1	2	2	2	2	2	2	2	2	2	1	1	1	
L	cycling)															