







Absolutely Positively Wellington City Council Me Heke Ki Põneke

OUR VISION:

Let's Get Wellington Moving is seen as a cohesive and future-focussed partnership, listening to the community and supporting the programme vision:

"A great harbour city, accessible to all with attractive places shared streets and efficient local and regional journeys. To realise our vision we need to move more people with fewer vehicles."

We will do this by delivering robust and effective communications and engagement, that's best practice in our profession, right-sized for each project, and stands up to scrutiny.







Absolutely Positively Wellington City Council Me Heke Ki Põneke

Purpose of this Deep Dive

 Interactive session to bring the GRG up to speed on progress made, where the Programme has got to, and the key challenges and opportunities going forward.

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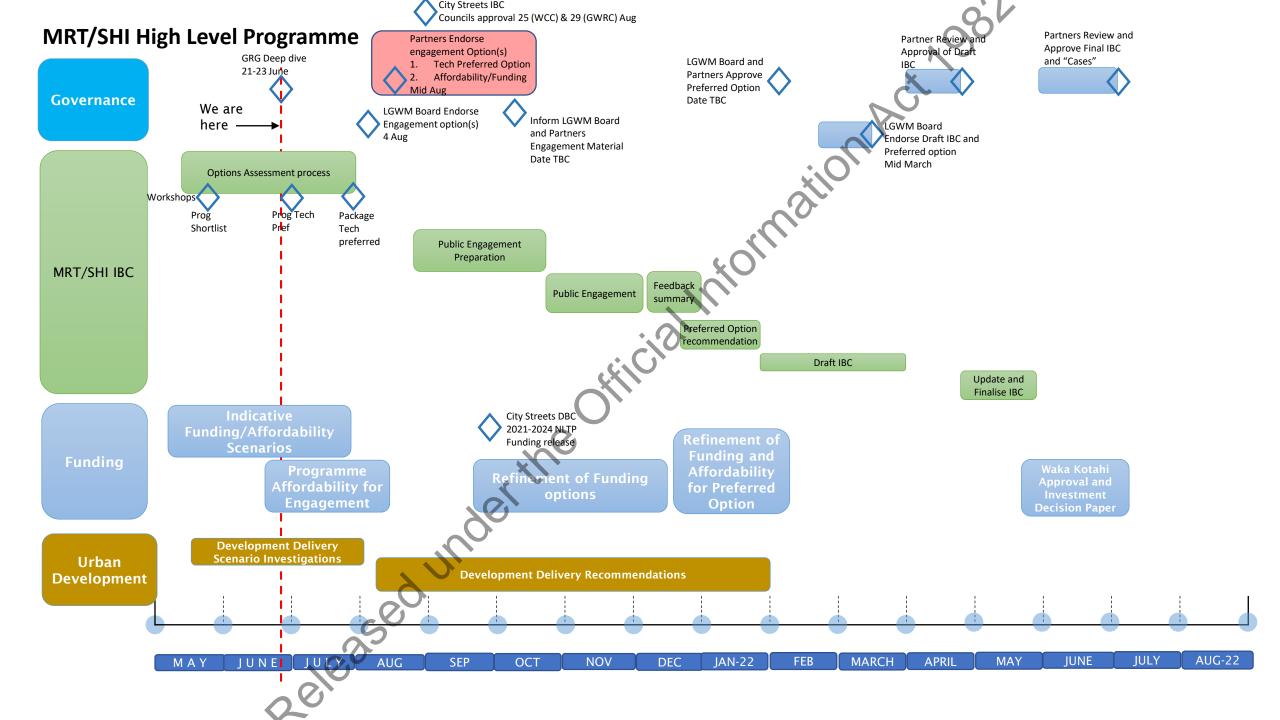
- Agenda
 - Key changes and assumptions guiding direction of programme
 - Programme options and assessment process
 - Final key challenges and messages

Current Status

- Objectives updated
- Programme Long to short list assessment completed
- aeleased under the Programme Short list to technically preferred option - still to be completed



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Key assumptions

- Rail to the north ٠
- Pricing ٠
- 2 eleased under the Official Information Act 1982 Programme Multi modal and integrated approach



Key Changes

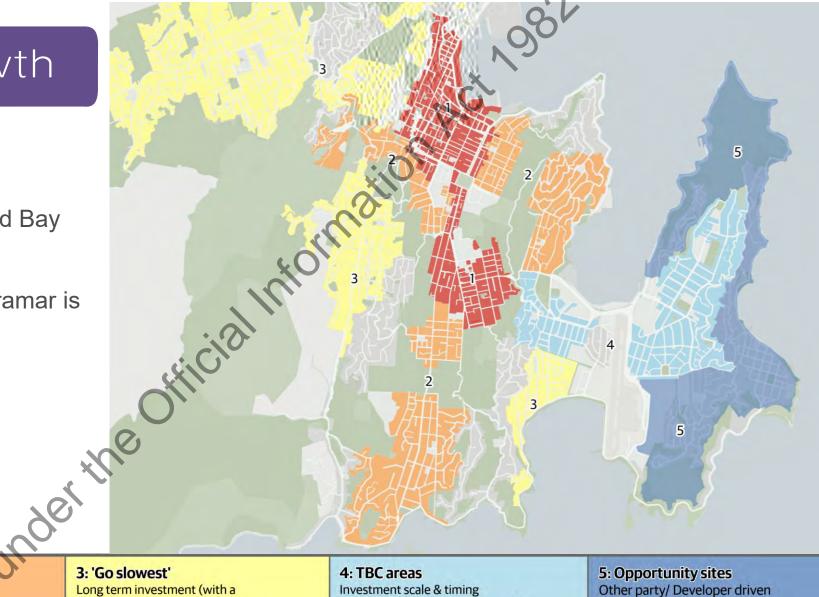
- Planning for Growth
- Objectives (Carbon, Mode shift, Development) To enable city Transformation
 MRT Route Evidence so far development focused

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Planning For Growth

- P4G proposes to prioritise in the Newtown, Berhampore and Island Bay corridor.
- Intensification in Kilbirnie and Miramar is longer-term.



1: 'Go now' Priority investment & upgrade areas (focus next O-10 years)	2: 'Go slower' Longer-term investment & upgrade areas (10-20 years)	3: 'Go slowest' Long term investment (with a focus on maintenance, deferred upgrades) (20+ years)	4: TBC areas Investment scale & timing dependent on LGWM and natural hazard and resilience planning	5: Opportunity sites Other party/ Developer driven (likely 10-20 years)
Total pop (minus Tawa):	Total pop (incl Tawa, excl Karori):	Total pop (incl Karori):	Total pop:	Total pop (excl Strathmore Park):
24,307-26,019	16,085-22,898	10,219-14,822	2,314-3,596	4,170-6,970

Objectives and weightings

Revised LGWM

Following a joint workshop with the partners, the objectives were reviewed and weightings were recommended. The LGWM board has proposed charges (see table) to incorporate the workshop feedback:

Proposed objectives and weightings will be submitted to council partners for forma consideration as follows:

- 24 June WCC planning and environment committee
- 29 June GWRC

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🔿 WAKA KOTAHI

The Waka Kothi board will be updated on 23 June.

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N98' LIVEABILITY ACCES SAFETY REDUCED RESILIENCE **PREVIOUS** CAR RELIANCE Objectives A transport system that: **Provides** more Reduces Is adaptable to Enhances the Improves Descriptors liveability of safety for all disruptions and efficient and reliance on the central city reliable access private vehicle future users for users travel uncertaintv PROPOSED LIVEABILITY ACCESS CARBON SAFETY RESILIENCE **EMISSIONS** AND MODE Objectives SHIFT Is adaptable to Improves **Enhances** Provides more Reduces efficient and safety for all disruptions and urban carbon Descriptors amenity and emissions reliable access users future enables and increases for users uncertainty urban mode shift by Changes in development reducing blue reliance on outcomes private vehicles 15 15 20 40 10

DRAFT material for discussion with councillors



Defining Mass Rapid Transit

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The Government Policy Statement for Land Transport 2021 defines Rapid Transit as:

A quick, frequent, reliable and high-capacity public transport

service that operates on a permanent route (road or rail) that is

largely separated from other traffic.



Scope of the Mass Rapid Transit IBC

- Develop an MRT system that contributes to the wider objectives of the LGWM programme
 - Review the PBC Baseline route as a starting point for business case options development —
 - Develop route options and confirm a recommended route(s)
 - Recommend an MRT mode or modes compatible with the recommended routes.
- Demonstrate the viability of MRT with respect to cost, consentability, implementability and risk.
- Demonstrate the interface with the wider transport system and Wellington urban fabric.
- Present a scope and management case for the next steps in the investigation, delivery and staging.
- Provide Project Partners with information needed to inform LTP, RLTP and NLTP processes. 2 eleased un

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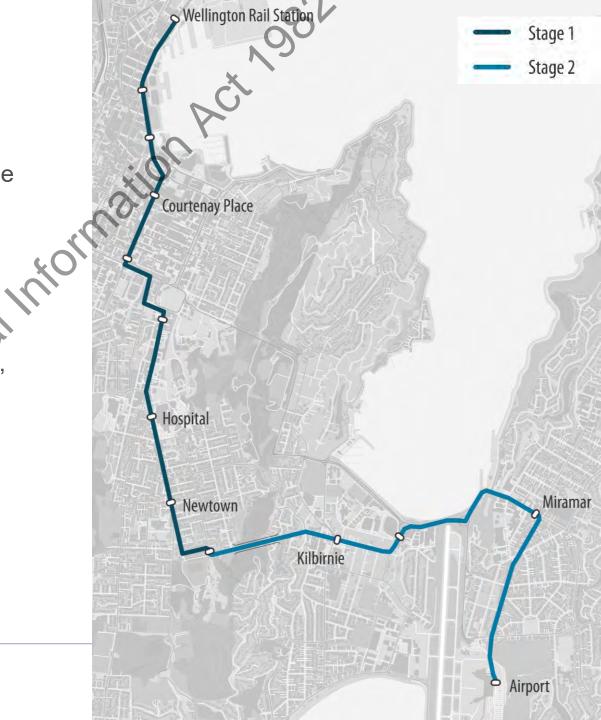


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PBC Baseline Route

- The MRT Baseline Route was detailed in the Programme Business Case.
- The 10.2 km route was was presented as two potential stages:
 - <u>Stage 1: Wellington Rail Station to Newtown</u> travelling via the waterfront quays through the CBD, Taranaki Street, Memorial Park, Tasman Street, Adelaide Road and Riddiford Street.
 - <u>Stage 2: Newtown to Wellington Airport</u> travelling via a new tunnel through Mt Albert to Kilbirnie and Miramar.

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Baseline Route Observations

Route directness

• The Baseline route adds more than 20% to travel distances.

Operating speed

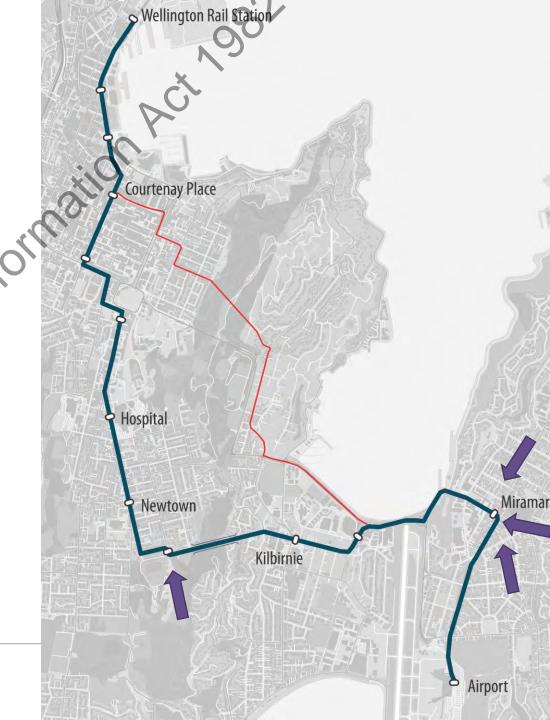
- An operating speed of 30km/h for the service was previously assumed.
- A speed of 20-22 km/h is more likely.

Requirement to transfer

 Baseline route planning assumed more than 50% of customers from Miramar would transfer from local feeder buses.

Ability to deliver network integration benefits

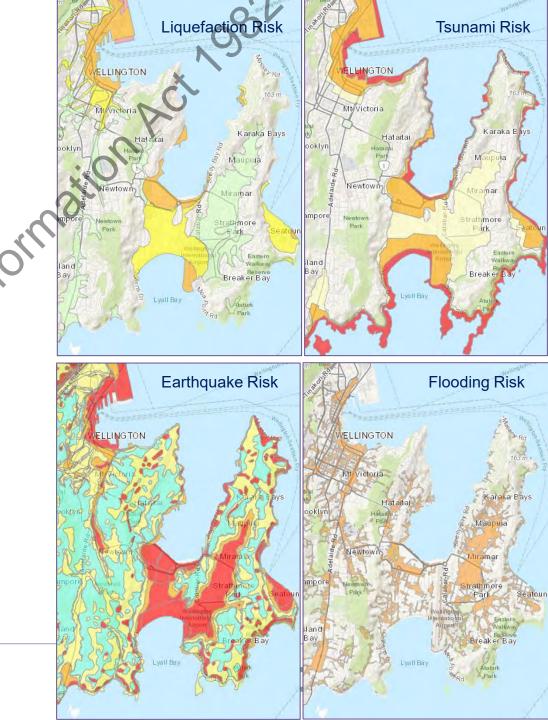
• The Baseline route overlaps several existing, frequent routes, but doesn't completely replace any of them.



Baseline Route Observations

Resilience & Urban Development Potential

- MRT needs to support and encourage urban development along the routes, and around stations.
- Resilience assessment highlights Kilbirnie as a resilience 'hot spot' with parts of the suburb potentially subject to ground shaking, liquefaction, flooding, sea level rise and tsunami inundation.
- Other parts of the city also experience these risks, including the Miramar peninsula .
 Celeosed under the series of the city also experience these risks, including the Miramar peninsula .



MRT System Options Development and Assessment

- Mass Rapid Transit is being planned as a system for the whole city.
- Planning has focused on regionally important destinations as recognised in the PBC Baseline route, in three sections:
 - Core Route: Wellington Railway Station to the Hospital & Newtown
 - Eastern Route to the Miramar peninsula, via Kilbirnie, serving the Airport and eastern suburbs destinations
 - Southern Route to Island Bay

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 The design of the MRT system will be future-proofed, to enable future extension to the west (Karori) and/or to the northern suburbs if desired in the future.



Route Options in the Core

- The Core route is generally well supported.
- It provides a logical and relatively direct connection ٠ between the city centre and Newtown, including Wellington Hospital.
- Two main options exist: via Taranaki Street and via Kent ٠ Terrace.
- Sub-options have been explored to assess local ٠ - ased under the constraints and opportunities.

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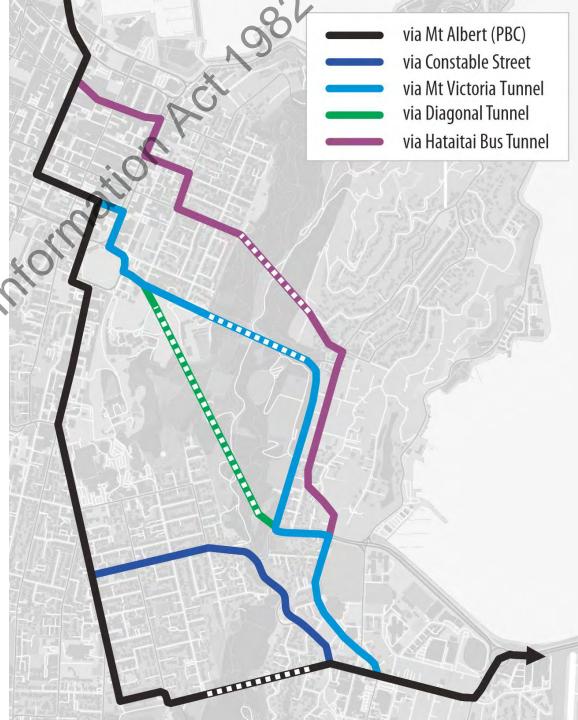
Route Options to the East

Five route options to the east have been considered.

- 1. PBC Baseline route requires a new Mt Albert tunnel (~\$250M).
- 2. Constable Street could be widened and Crawford Street realigned, but significant impact on property and Town Belt.
- 3. Mt Victoria tunnel, either duplicated or converted, depending on SHI options.
- 4. Within new Diagonal Tunnel, located in dedicated or HOV lanes.
- 5. Existing Hataitai Bus Tunnel and approach roads cannot be upgraded to MRT standard. But some improvements can be achieved in Moxham Avenue to improve bus reliability.

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22 June 2021

Route Options at Miramar

Options on the Miramar peninsula considered:

- The PBC Baseline route, via Miramar town centre.
 - Large requirement for customer transfer.
- Branched route to Airport, Miramar and Seatoun.
 - Customer-centric approach.
 - Prioritises single-seat journeys.

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 Airport service tailored to the needs of airport Rased under the customers.

Single Miramar Route (Baseline) Branched Miramar North, Seatoun & Airport Routes Miramar North 40 Miramar Seatoun

Airport

Route Option to Island Bay

- A route to Island Bay was developed to replicate and replace the existing successful Route 1 bus service.
- This urban footprint is within 500m of the corridor allowing the entire catchment can be served with a single route.
- Fewer resilience issues within the corridor allow urban intensification to be focused around station locations.

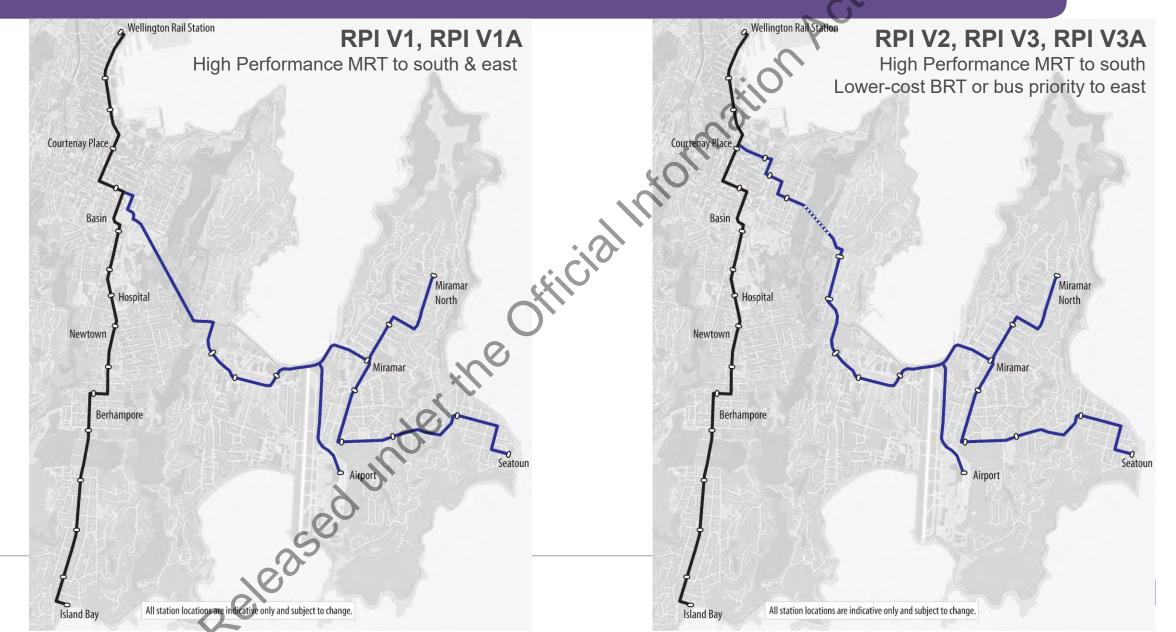
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MRT Options Included in Programme Short List



Programme Options – Common features

- Short term programme:
 - Golden Mile
 - Thorndon Quay / Hutt Road improvements
 - Central City pedestrian improvements minor safety improvements at ~20 intersections around the city
 - Cobham crossing and safer speeds signalised crossing of Cobham Drive adjacent to ASB Sports centre and reduced speed limits on SH1 (Ruahine Street and Cobham Drive).
- City Streets (will vary by programme as noted) see next slide for projects
- Travel Demand Management:
 - Travel behaviour change
 - Pricing (will be a sensitivity test for all programmes)

Programme Short List Briefing Pack

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City Streets + Short Term Programme

Projects included but not shown:

- Newlands
- Karori tunnel to Karori
- Ngauranga Gorge to Johnsonville
- Bus Stop Rationalisation Strategy
- Northern CBD Network Operating Plan Feasibility Testing
- City Streets Corridor Tactical Improvements

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Key

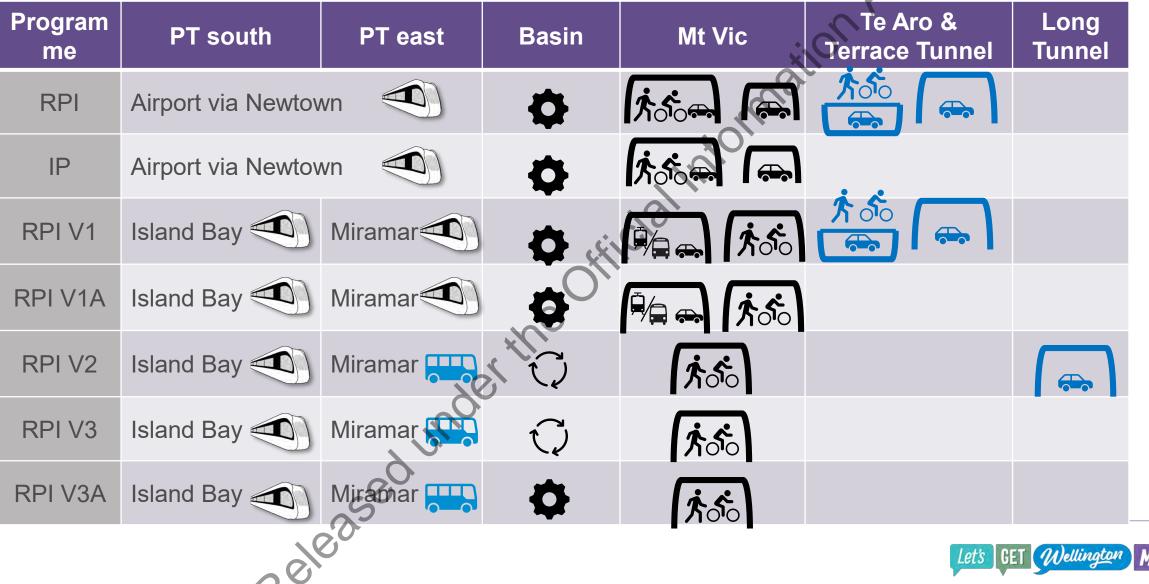
- Walking, amenity and safety
- Cycle + bus + other
- Cycle + other
- Bus + other

Programme Short List Briefing Pack

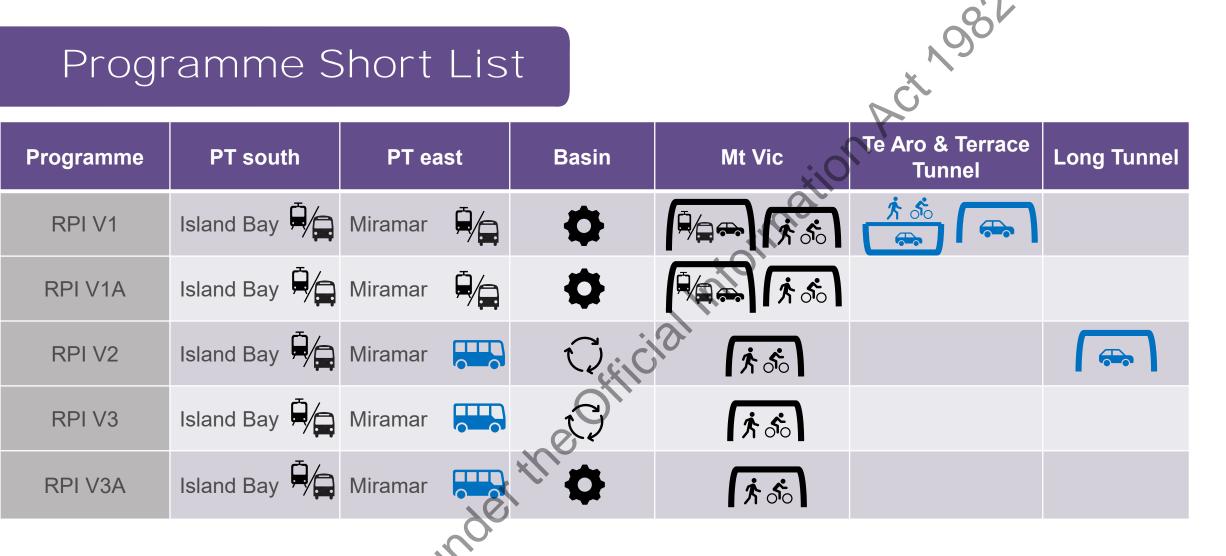
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LGWM Programme Long List

All options to be considered with and without congestion charging, shows key differences only Items in blue have not been developed to same level of detail under IBC process to date



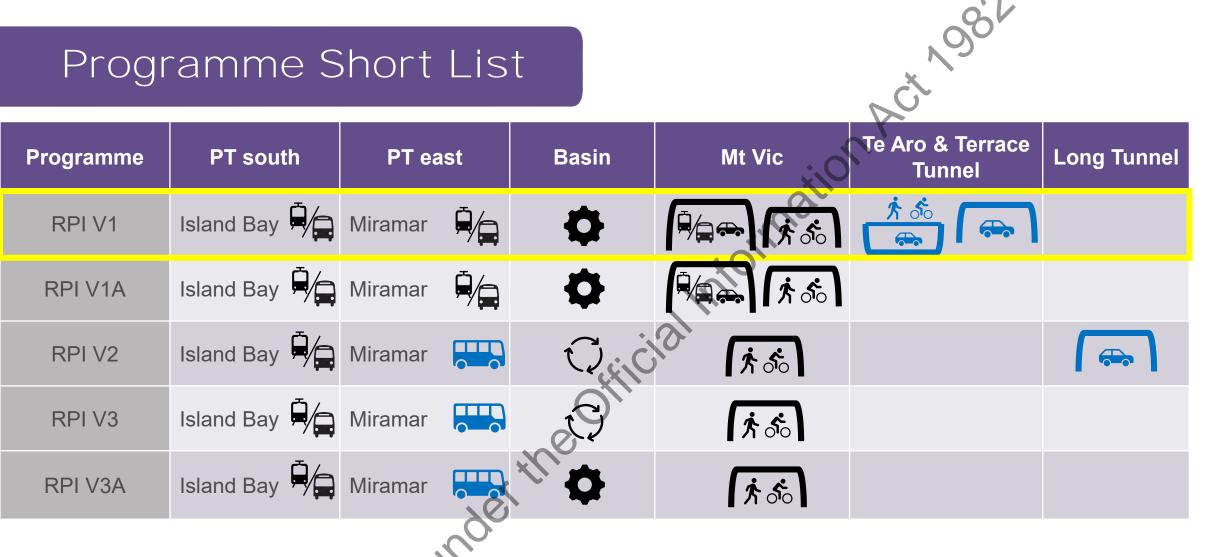




All options to be considered with and without congestion charging. Table summarises key differences only Items in blue were not developed during the previous IBC process – currently being worked on for this short list assessment processes

Programme Short List Briefing Pack





All options to be considered with and without congestion charging. Table summarises key differences only Items in blue have not been developed to same level of detail in the original IBC process – currently being worked on for this short list assessment processes

Programme Short List Briefing Pack



RPI Variant 1

Other aspects not shown visually here:

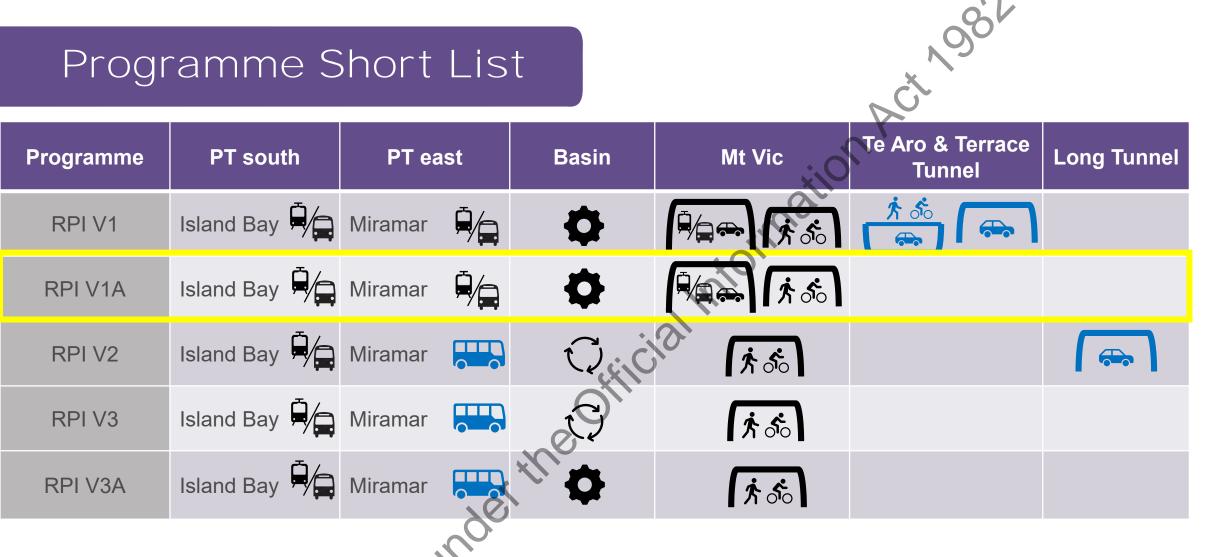
- Bus integration with MRT route
- Potential SPV lanes along SH1 corridor
- **City Streets**
- Travel behaviour change
- Parking levy / congestion charging

City Streets projects delivered via MRT: underthe

- Waterfront/Quays Route
- Taranaki
- **Basin to Newtown**
- Kilbirnie to Miramar Cutting
- Newtown to Berhampore
- ,05ed Miramar town centre

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RPI Variant 1 A

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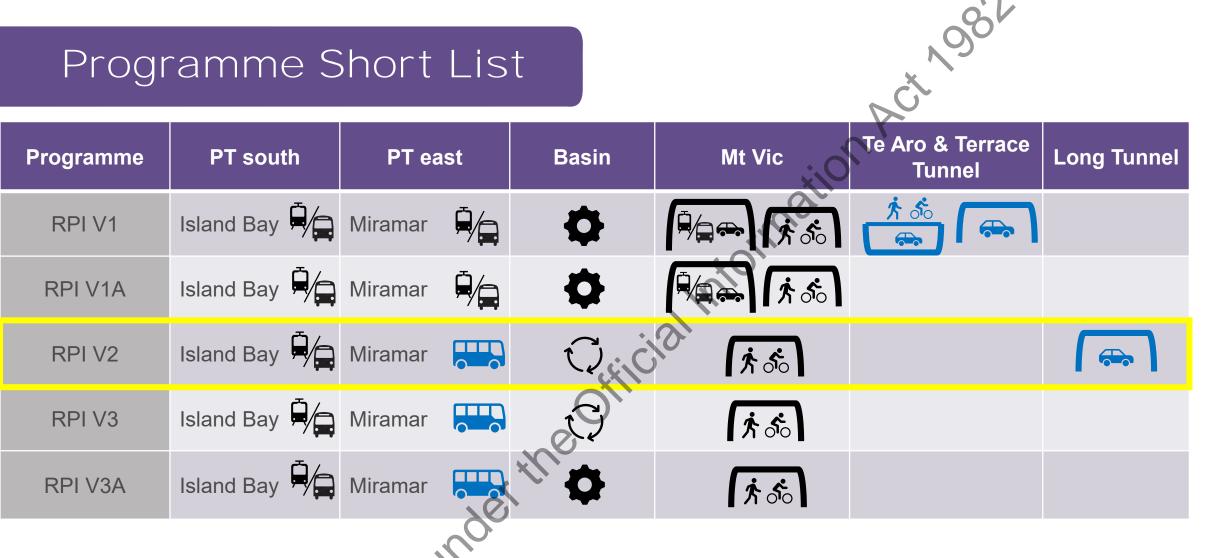
- Bus integration with MRT route
- **City Streets**
- Travel behaviour change
- Parking levy / congestion charging

City Streets projects delivered via MRT:

- Waterfront/Quays Route
- Taranaki
- **Basin to Newtown**
- leased under the Kilbirnie to Miramar Cutting
- Newtown to Berhampore
- Miramar town centre

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All options to be considered with and without congestion charging. Table summarises key differences only Items in blue have not been developed to same level of detail in the original IBC process – currently being worked on for this short list assessment processes

Programme Short List Briefing Pack



RPI Variant 2

Other aspects not shown visually here:

- Bus integration with MRT route
- **City Streets**
- Travel behaviour change
- Parking levy / congestion charging
- Basin improvements (pre and post long tunnel)
- Enhanced City Streets in Te Aro to reclaim road space

1eased under the City Streets projects delivered via MRT:

- Waterfront/Quays Route
- Taranaki
- **Basin to Newtown**
- Newtown to Berhampore



RPI Var 2

MPROVEMENTS

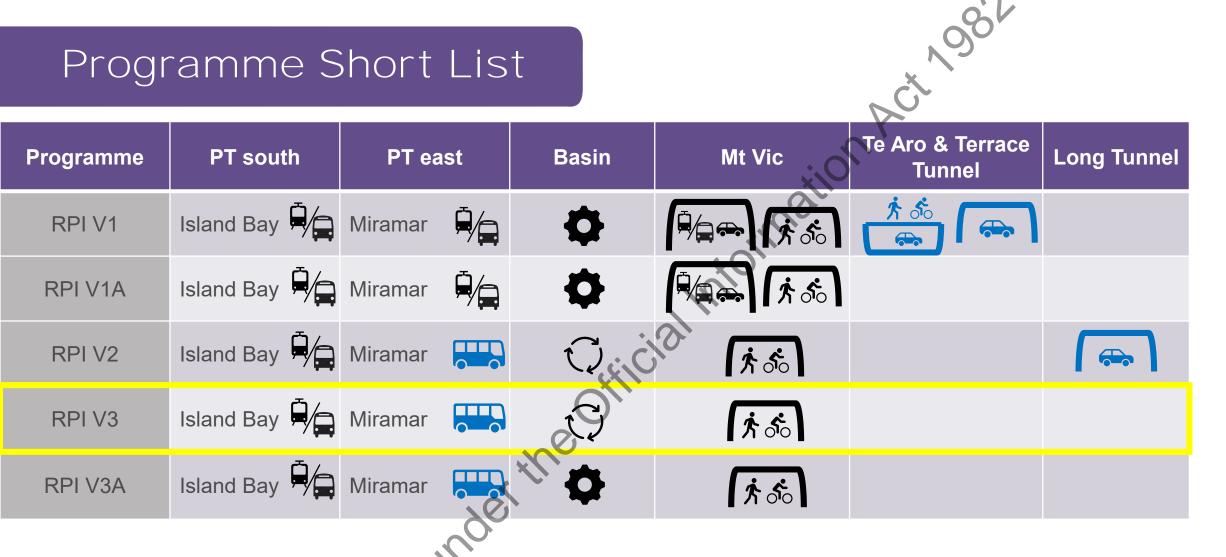
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Programme Short List Briefing Pack



RPI Variant 3

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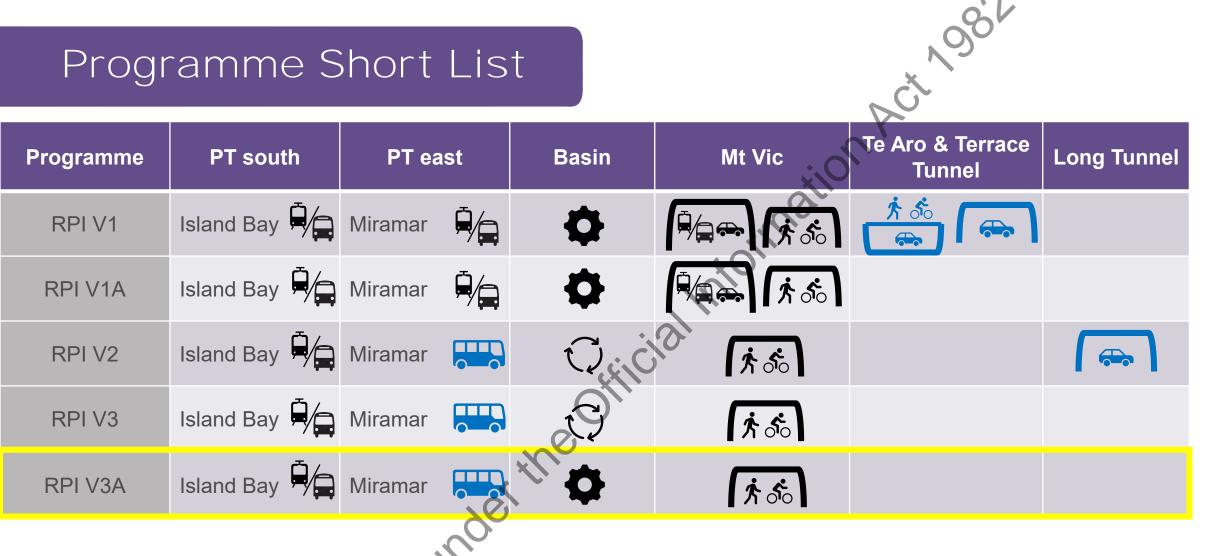
- Bus integration with MRT route
- **City Streets**
- Travel behaviour change
- Parking levy / congestion charging
- **Basin improvements**

City Streets projects delivered via MRT: 1eased under the

- Waterfront/Quays Route
- Taranaki
- **Basin to Newtown**
- Newtown to Berhampore

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All options to be considered with and without congestion charging. Table summarises key differences only Items in blue have not been developed to same level of detail in the original IBC process – currently being worked on for this short list assessment processes

Programme Short List Briefing Pack



RPI Variant 3A

Other aspects not shown visually here:

- Bus integration with MRT route
- **City Streets**
- Travel behaviour change
- Parking levy / congestion charging
- **Basin improvements**

City Streets projects delivered via MRT: Leosed under the

- Waterfront/Quays Route
- Taranaki
- **Basin to Newtown**
- Newtown to Berhampore

ROVEMENTS **RPI Var 3A** BY TRANSPORT M KOHT RAIL BUS PED / CYCLE GENERAL TRAFFI GOLDEN MILE BUS + PED FOCUS THORNDON QUAY HUTT ROAD BUS + CYCLE FOC INFRASTRUCTURE AT GRADE TUNNEL / COVERED TRENCH OPEN TRENCH ficial ntegrated with MRT and around the Basin BRT through existing bus tunnel New parallel tunnel for tive travel. Existing tunnel ctive travel improvements to Ruahine St

Programme Short List Briefing Page



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City Streets: first tranche



Key considerations

Prioritisation in the recommended list

Level of service gaps data:



Confidence in the achievability of the project

What does it mean to be in the first tranche?

Develop detailed business cases (DBCs)

Set up project teams

Ct Or

Deep dive into location specific problems and opportunities

Options and concepts for changes, including preferred option

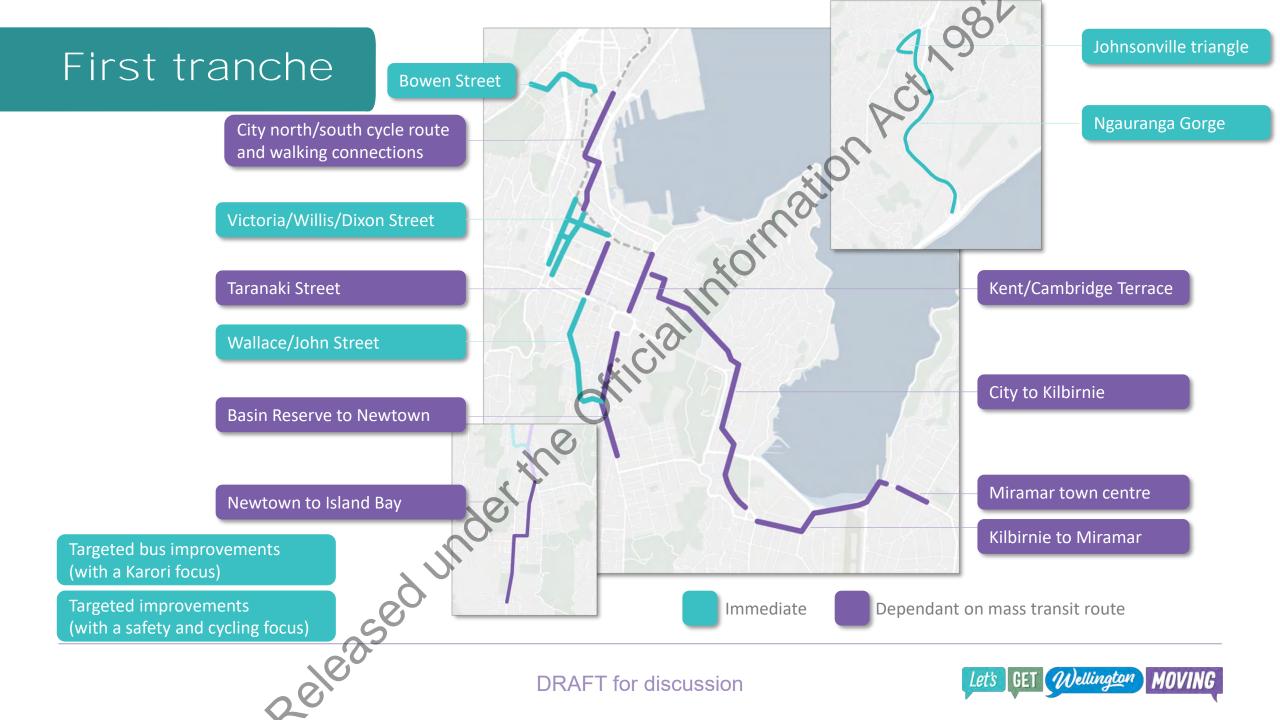
Community engagement

Partner approval, towards construction

If approved, shovels in the ground within 3-5 years



DRAFT for discussion







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- One of NZ's best tourism destinations
- Regional engine for the economy and jobs
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• Regional engine for the economy and jobs



