



1 - The Challenge



The Challenge

By 2035, The Emissions Reduction Plan sets out to ...

Reduce total kilometres travelled by the light fleet by 20% VKT target for Auckland

Increase zero-emissions vehicles to of the light vehicle fleet

The Residence Bedardise Plan sets these targets for transport by 2006.

Reduce emissions from freight transport by 35%

The Euclidean Sendartion Plan selections the Sendard S

The Decarbonising Transport Action Plan gives effect to the ERP through...

Focus Area 1

Reduce reliance on cars and support people to walk, cycle and use PT Focus Arca 2
Rapidly ad pr low-emissions vehicles

Focus Area 3
Begin work to decarbonise heavy transport and freight

Focus Area 4 Advancing cross-cutting and enabling actions

Transport costs, not revenue, funding or consequential opex



Multiple Evidence



Just Auckland

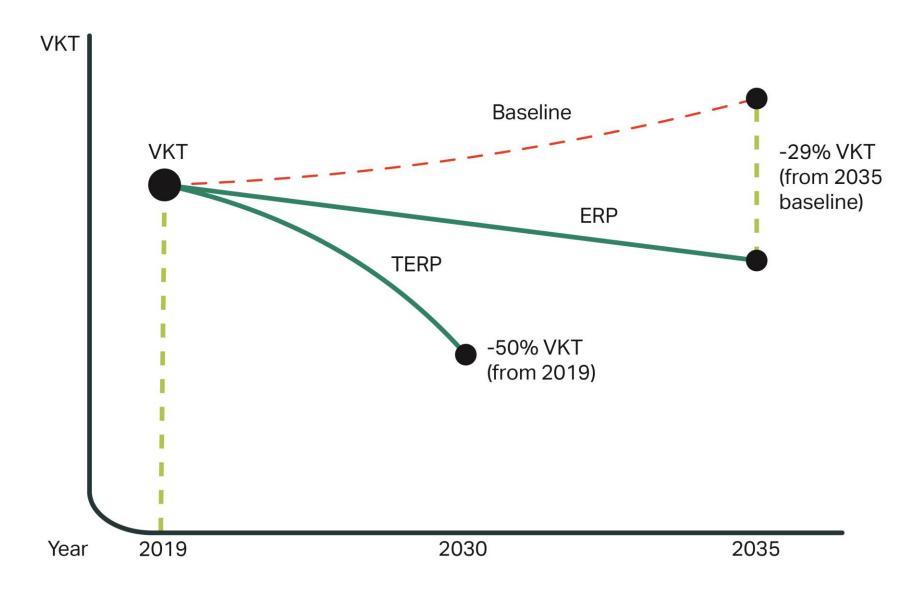


PM engagement & land use





More Challenge



Insights for LTP – 5mo, not 11mo



Net Carbon





2 – Our current trajectory



The state of play

International & National

2015The Par

The Paris Climate Agreement is Signed to limit warming to 1.5C



Tāmaki Makaurau



The 'Zero Carbon Act' is passed to meet net zero by 2050



2019

Auckland Council declares a Climate Emergency



2022

The NZ Government declares a Climate Emergency

Te hau mārohi ki

Reduction Plan)

anamata (Emissions



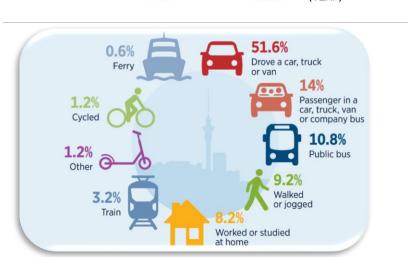
2020

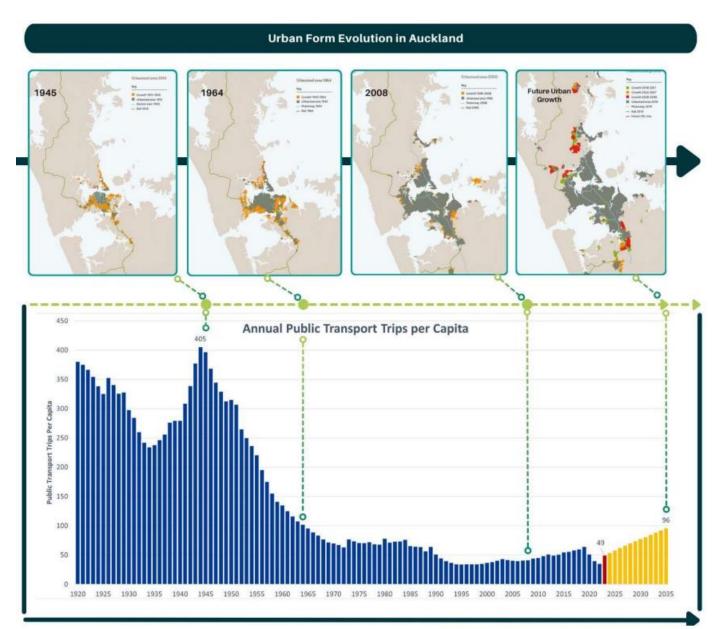
Auckland Council adopts Te Tāruke-ā-Tāwhiri (Auckland Climate Plan)



2022

Council creates a pathway to reduce transport emissions (TERP)



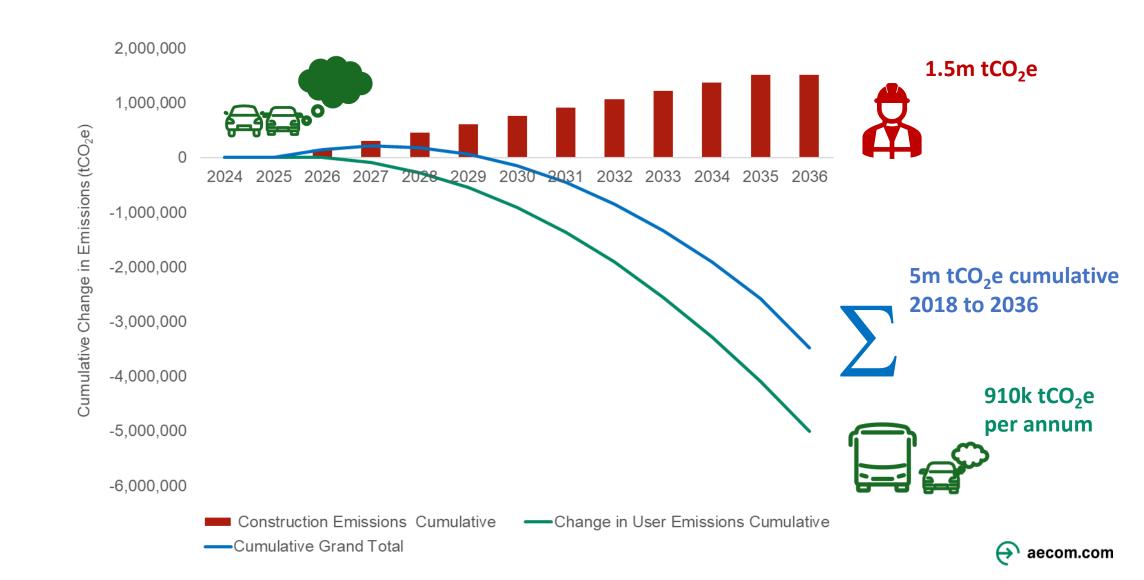




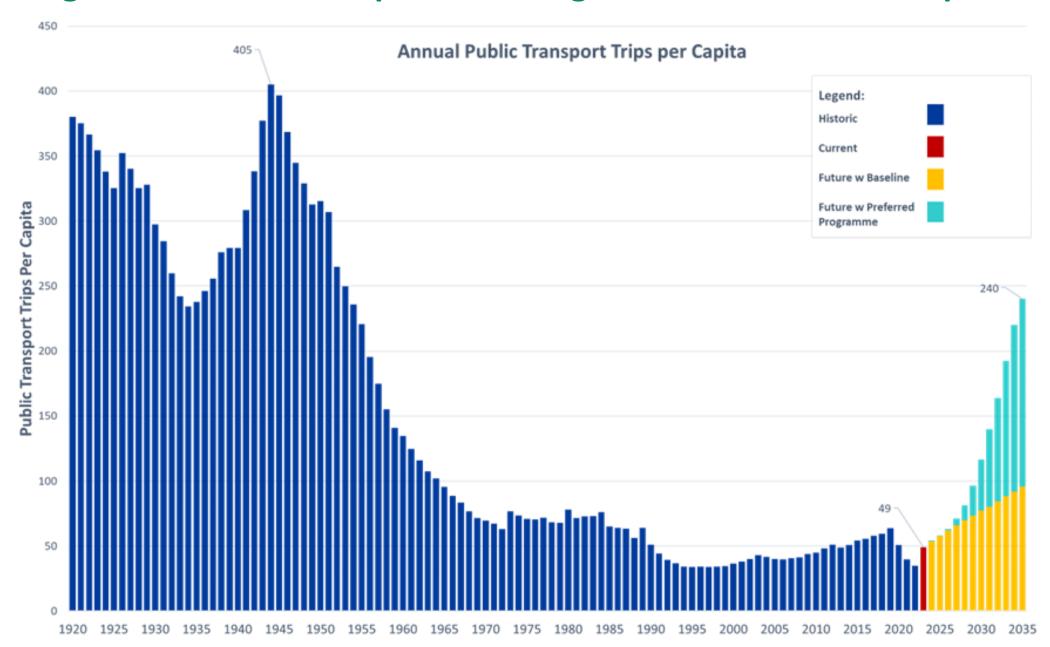
3 - Can it be done?



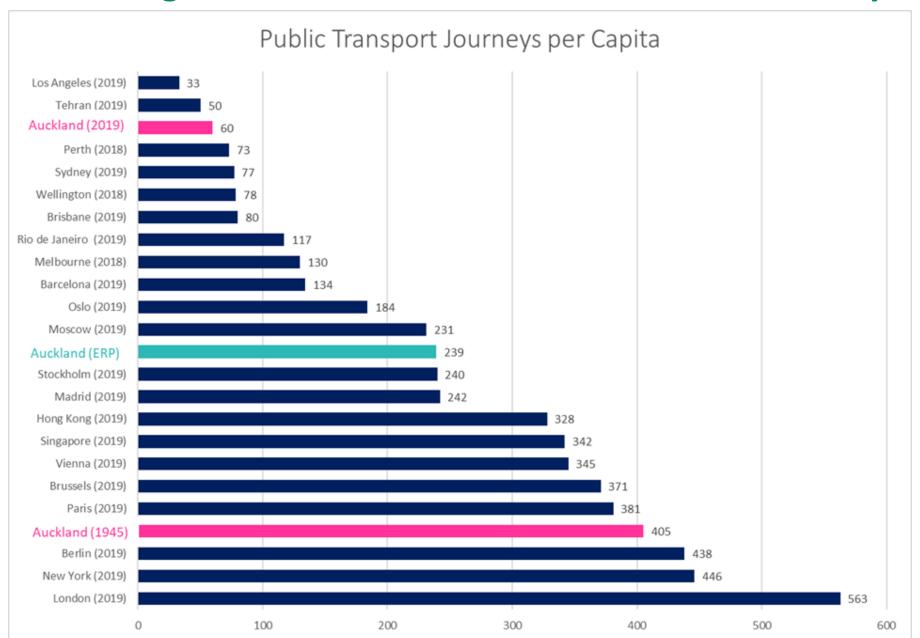
Operational carbon savings rapidly exceed physical works embodied carbon, suggesting reliable carbon neutrality before full delivery



Invigorated Public Transport Patronage with almost 5-fold trip increase



Heading Back to the Future & International Credibility







4 – The Plan



170+ interventions across 28 packages

Strategic Shifts



Key Enablers





5 – Transferable knowledge



What now? Application beyond VKT reduction



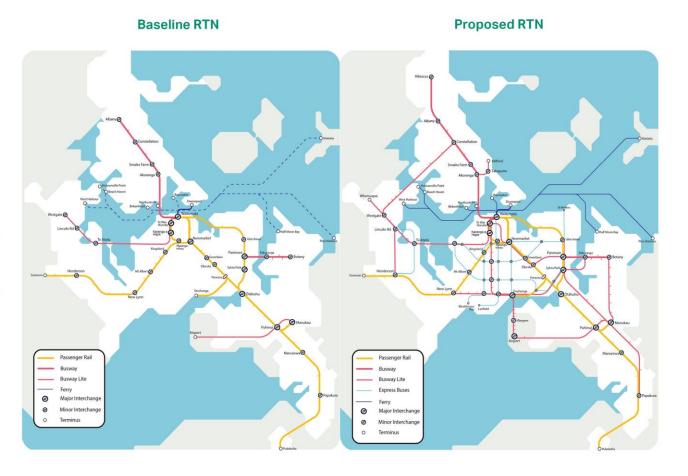
- 1. Public Transport
- 2. Amplifiers
- 3. Design & Delivery
- 4. Social license
- 5. Auckland Inc. & NZ Inc.

PT – 3 ingredients – RTN mesh incl blue collar routes

Aim to Expand Public Transport



The programme aims to rapidly extend Auckland's RTN network by introducing BRT (Bus Rapid Transit) Lite and express services. It utilises shoulder-running busways on State Highways and offers limitedstop express services, enhancing connectivity between key areas like West Auckland and employment hubs in South Auckland, including the airport.





New BRT-Lite Routes 1110 New BRT-Lite Stations \$35 Weekly PT fare cap



PT – All day high frequency – not just commuter peaks

Improving All-Day PT Frequency



The public transport programme significantly improves public transport services across Auckland, offering frequencies on almost all lines. Offering improved access, and extended hours of operation, reducing wait times and making journey times more competitive. Additionally, there's a notable increase in public transport capacity, particularly during offpeak hours and weekends.

Key:

30 Minutes + Frequency

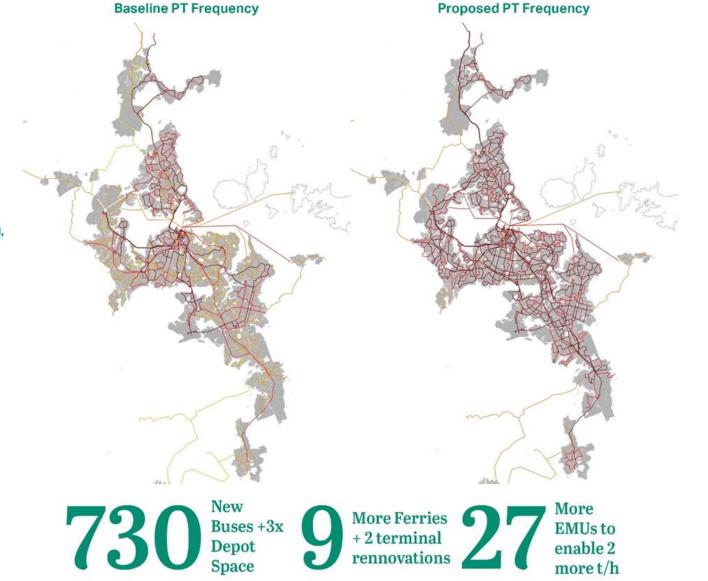
15-30 Minutes Frequency

10-15 Minutes Frequency

<10 Minutes Frequency



9 4 110 \$35





770 71 71 5

PT – All day, connected priority – change focus 'big infrastructure' to 'big service'

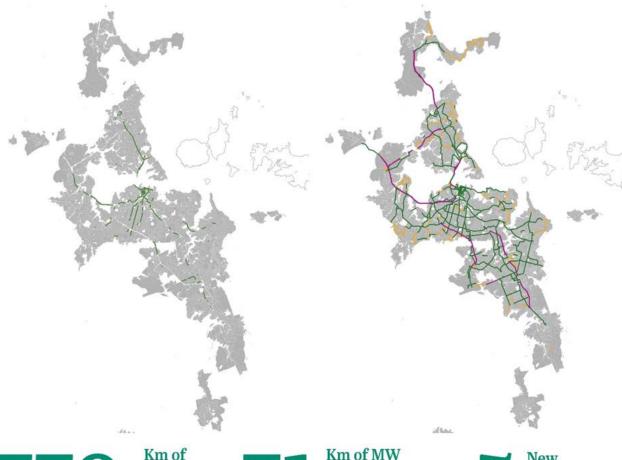
Existing Bus Priority

Implementation of Extensive Bus Priority



The proposed expansion of Auckland's bus priority network is a strategic move to boost public transport efficiency. By concentrating on enhancing bus speeds and reliability, this initiative is designed to foster greater use of public transportation, aligning with Auckland's commitment to sustainable and accessible urban mobility.









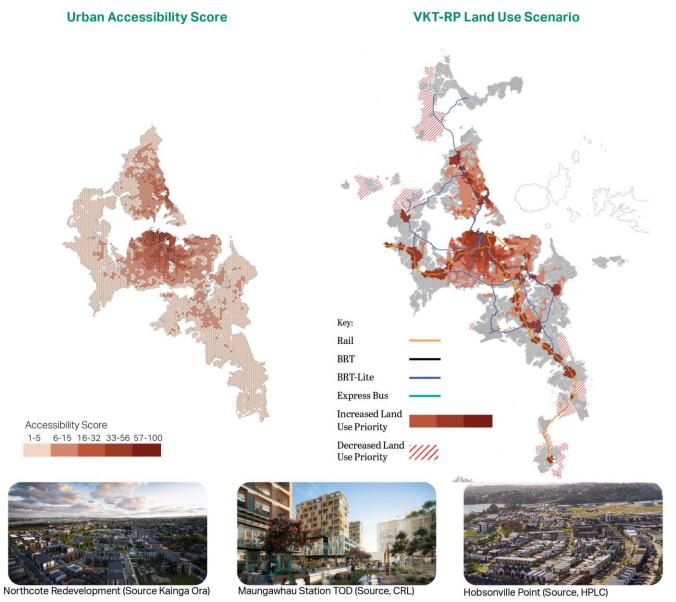
Proposed Bus Priority

Amplifiers – The single biggest step – up and not out

Towards a Compact Urban Form



This strategic shift aims to enable more people to live in areas with good access to public transport and active modes. This will allow more people to have access to sustainable travel options and be less dependent on cars for transport. It aims to build up instead of out and enable a more well-functioning urban environment by limiting high carbon growth in areas with insufficient transport access, essential amenities and employment opportunities.





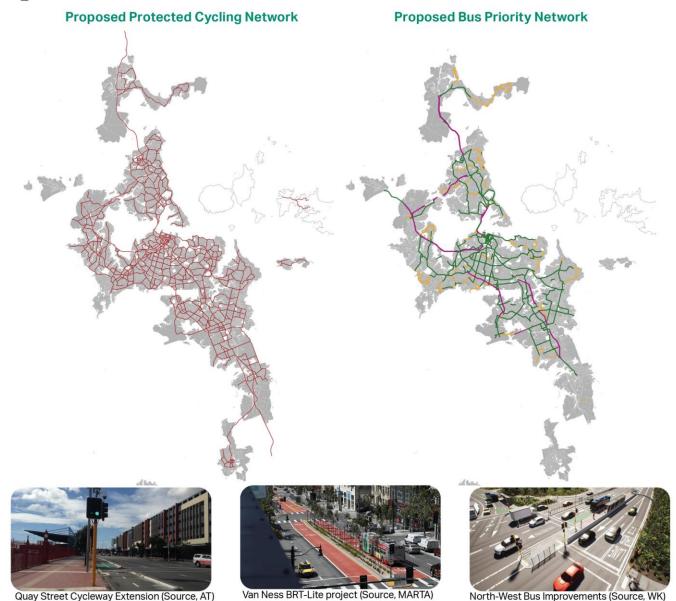
Amplifiers – road re-purposing – supply & demand

Repurposing Road Space



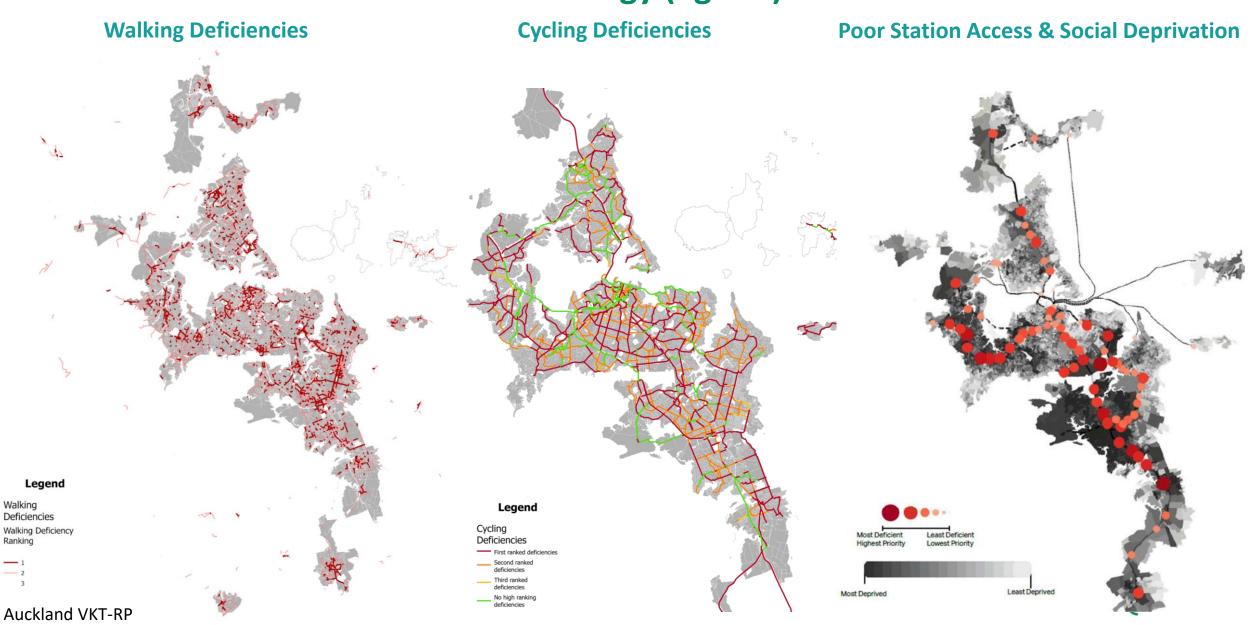
As Auckland grows, the adaptability and efficiency of its streets are paramount for meeting the needs of current and future communities. This requires transforming the form and function of numerous roads in Auckland and reallocating space to bus lanes, high-occupancy vehicle lanes, cycling networks and enhancements in walking infrastructure and public spaces. This approach is the most rapid, eco-friendly, and cost-effective.

Eco-friendly, and cost-effective. Key: Full Bus Priority Partial Bus Priority Motorway Shoulder Lane Protected Cyclelanes





Design & Delivery – carefully use existing knowledge / tools with innovative technology (eg GIS)



Design & Delivery – reduce network fragmentation, at pace, with simpler kit – mass action synergies with maintenance

Active Mobility Programme

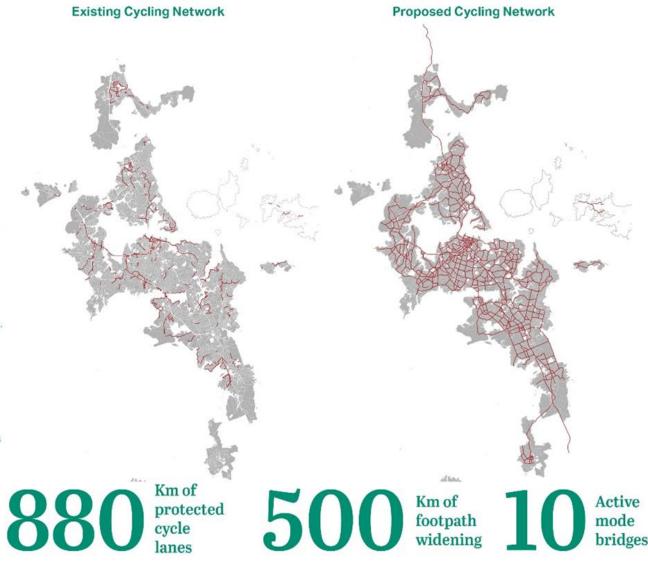


This package significantly improves the safety, quality, and coverage of infrastructure dedicated to walking, cycling, and other forms of micro-mobility.

Highlights of this package include:

- ~880km of more protected cycleways
- Harbour Bridge two lane cycleway
- 10 active mode bridges
- 315 Bike Hubs in town centres, bike shops, schools and marae
- 120,592 bike parks (incl. 9,200 e-bike)
- ~73.5km new footpath
- ~500km of narrow footpath widening
- ~2,800 new or improved pedestrian crossings
- ~First & final leg initiatives around stations
- · 87 low traffic neighbourhoods
- ~25,000 streetlights upgrade one level (20%)
- · 3 more animal control officers

Key: Protected Cycle Lanes or Shared Path





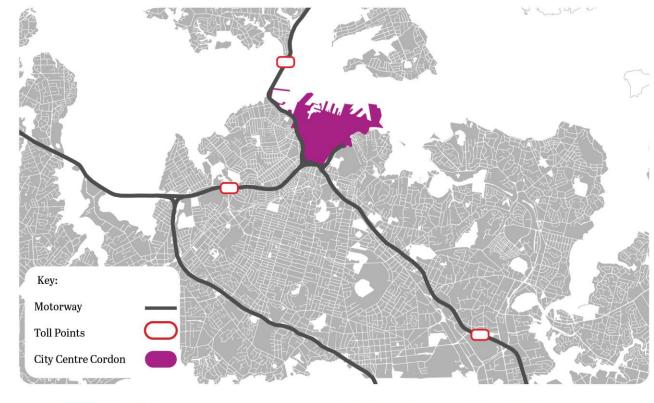
Design & Delivery – constant evolutionary change – no silver bullet

Motivate People to Travel Differently



This programme focuses on influencing travel behaviour through various methods. It includes managing car parking and vehicle use, employing different pricing tools, and providing incentives for using public and active modes. Additionally, it includes educational and communication initiatives and travel planning programs

- E-bike subsidy Community Service Card (CSC) holders and general public
- Car and bike sharing subsidies –target 20% of population
- · Regional fuel tax period extended
- · Distance-based cost of driving of 10c per km
- CBD Congestion charge & Motorway tolls: \$4.06 peaks, \$1.74 Inter-peak
- Funding travel plans for 200 workplaces, 180 schools, stadiums and events, community
- Travel planning services for PT cards, walking school bus, bike month, bike challenge, guided rides
- Funding for Transport Management Associations
- 10 Mobility Hubs







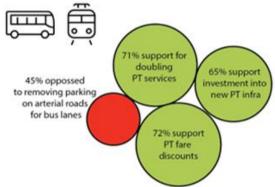




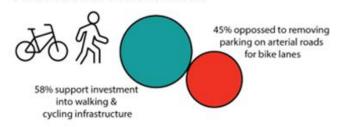
Social License – don't know the 'why' – don't like parking loss or pricing

Engagement with Aucklanders-the Voice of the Customer

PT Interventions



Active Mode Interventions



Land Use Interventions



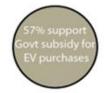


Pricing Interventions



Incentives Interventions





Online Interviews

1000 Responses Quantitative Approach

Corporate
7 In-depth
Interviews

SMEs

2 Focus Groups 7 In-depth Interviews

"Congestion charging preferred over VKT charge because it affects fewer people & you change your behavior to avoid charges".

"The pricing charges need to go hand-in-hand with PT improvements to get behavior change and be more ethical"

Aucklanders already pay enough in petrol/tax. This adds even more financial burden on households. I will take my car anyway"

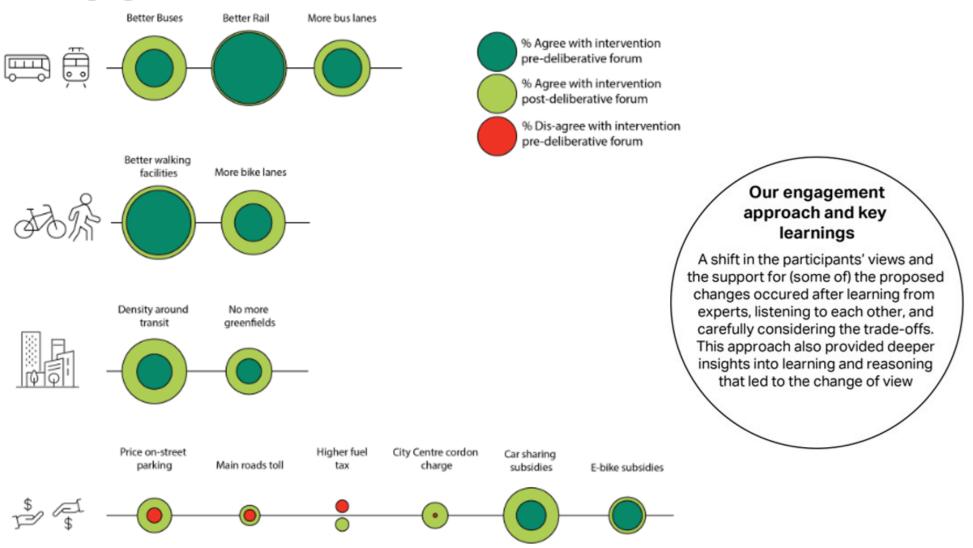
"Need a rail system for all Aucklanders and ferries that service the Eastern Bays and all those on the shore"

A reliable, far reaching, comprehensive, fluid, & safe PT system – that is heavily subsidized".



Deliberative Forum – independent experts + peer discussion = shift

Engagement with Aucklanders - Deliberative Forum





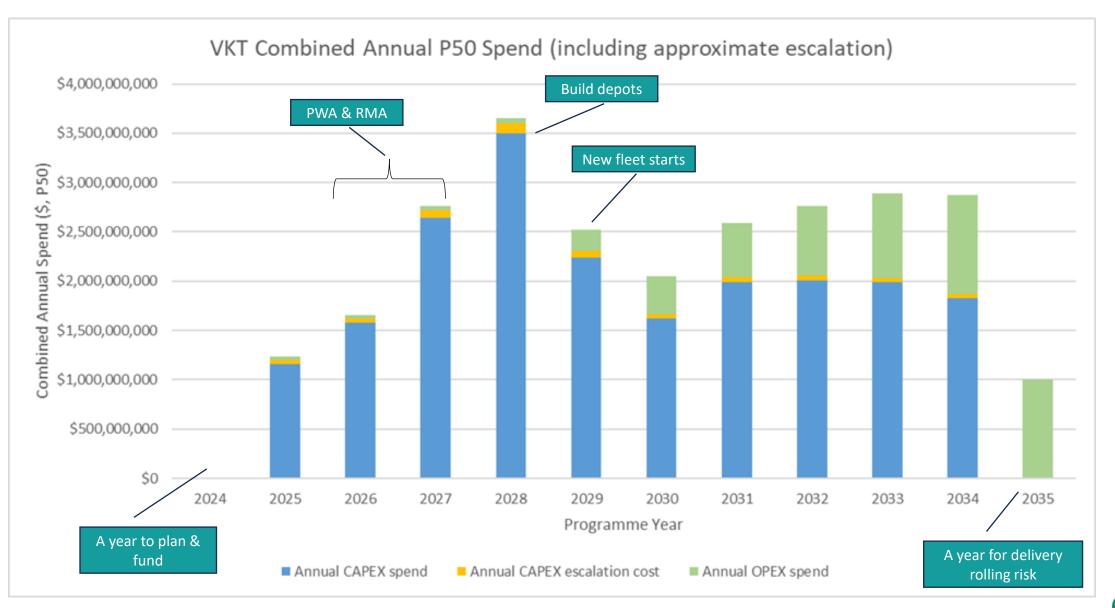




TIC – 4 April 2024



NZ Inc – Value for Money



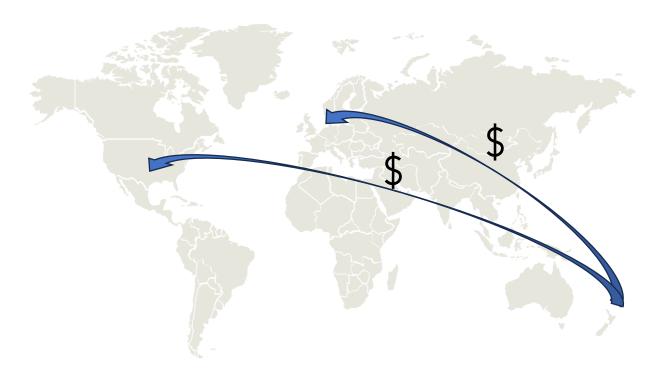






NZ Inc – better quality of life & more productive

- \$70bn in health benefits by 2050 (AC Chf. Econ.)
- 27% safer
- 20% better on average trip times including for residual / commercial traffic
- 24% less fuel per day energy security & domestic wealth



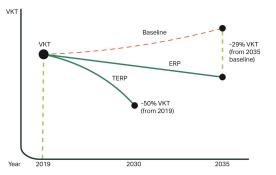


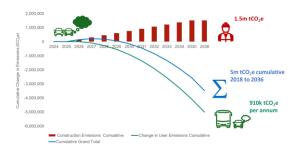


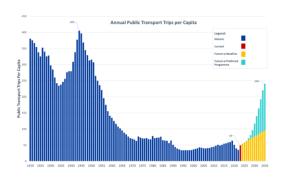
5 – In summary



There is a credible, but challenging path, to equitably meet ERP goal of 29% reduction by 2035

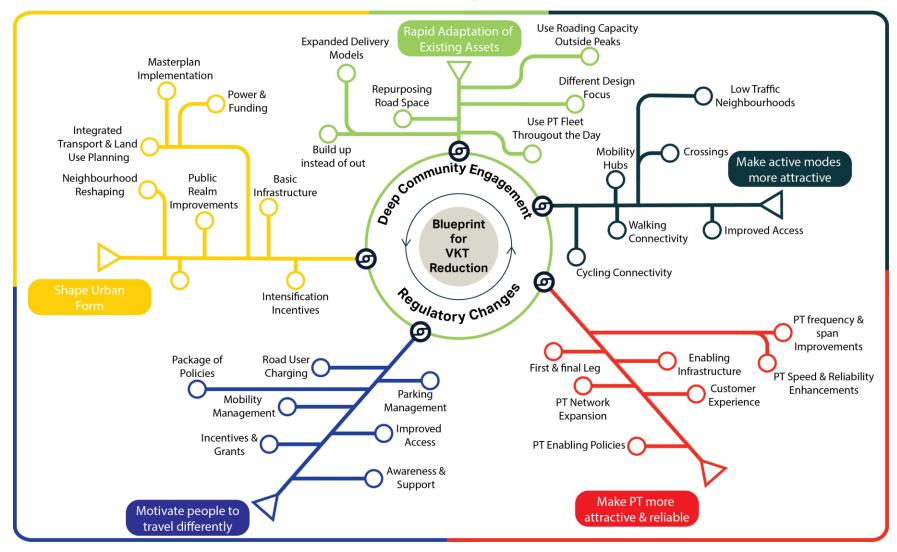






- Moves net carbon fast
- PT growth plan
- Transferable insights
 - PT growth RTN mesh + all day FTN + all day priority
 - Amplifiers road re-purposing & intensification
 - Delivering differently mass action at pace; big service, not big infrastructure; evolution, not revolutionary tech, data or project
 - Social licence the 'why' to match the 'what'
 - Better NZ Inc. better value; more productive, healthy & safe

Thank you!



TIC workshop presentation – see AC website for Dec 2023 minutes, extra attachment (12.2Mb)

TIC final report – see AC website for April 2023 minutes, attachment (155Mb)