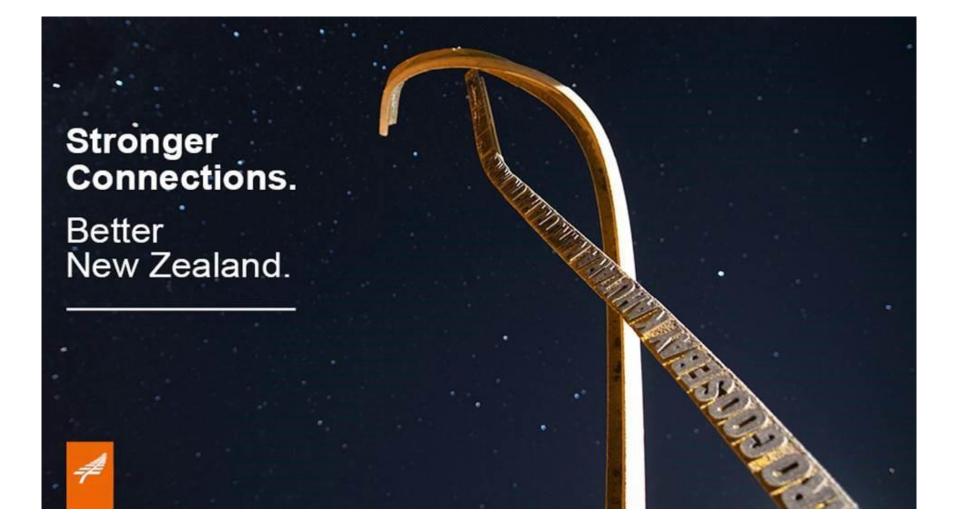


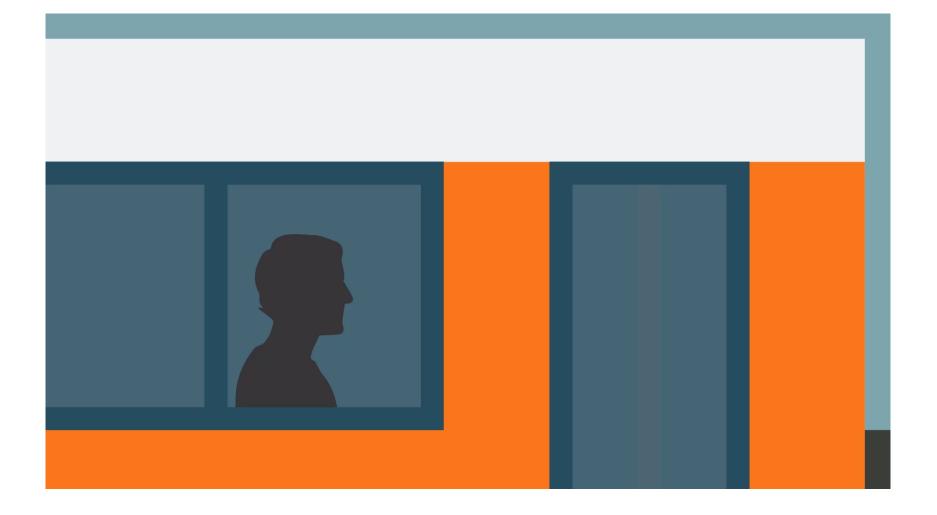
Looking to the Future A Procurement Perspective

October 2018



Runder Manager





A Perfect Storm: Context

- KiwiRail's current scope and mandate
- Transport Policy (GPS) and emerging mandate for rail
- Current financial position and source of \$'s
- So for the industry
 - What's real and what's good intention
 - Scale of opportunity
 - Risk
 - Timelines





| Auckland Metro | Wellington Metro | Northland |
|------------------|--------------------------------------|-------------------------|
| iReX | Mechanical rolling stock & depots | General network capital |
| Other Facilities | Provincial Growth Fund | Others |

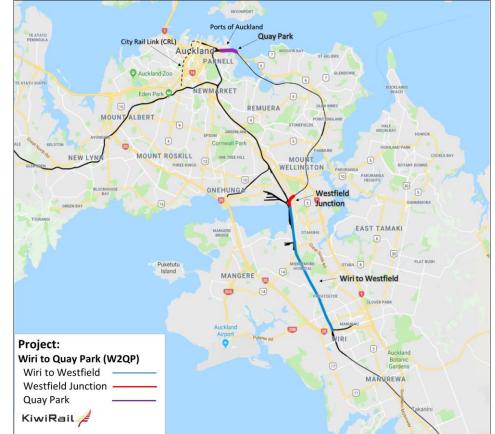


- Road congestion levels in Auckland are having major impacts on the economy.
- The Auckland Metro rail network has reached saturation between Wiri and Westfield.
- In 2024, the City Rail Link project will enable more trains to be on the network
- Unless matched by investment in the network, City Rail Link project will not deliver its potential
- The Auckland Metro Projects are part of the wider Auckland Rail Development Programme and have been identified in ATAP and AT's RLTP.
- These projects will contribute to the improvement of the overall transport system in Auckland.
- The two main projects are: Wiri to Quay Park third main (W2QP), and Papakura to Pukekohe electrification (P2P).



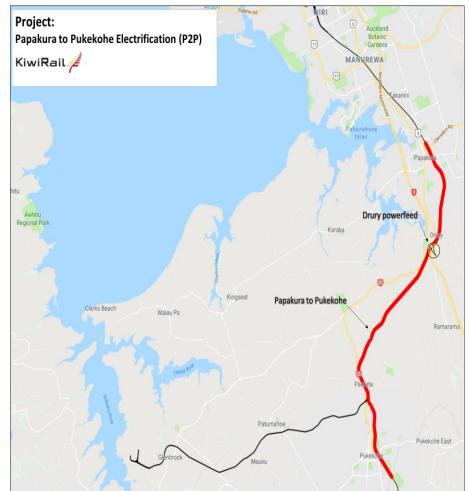
W2QP (Wiri to Quay Park)

- Complete a third railway line between Wiri . and Westfield
- Improve Westfield junction •
- Enhance rail access to Ports of Auckland.
- Start in FY19 completed FY23 \$147m •
- Civil, structures (retaining walls, bridges) and rail systems



P2P (Papakura to Pukekohe)

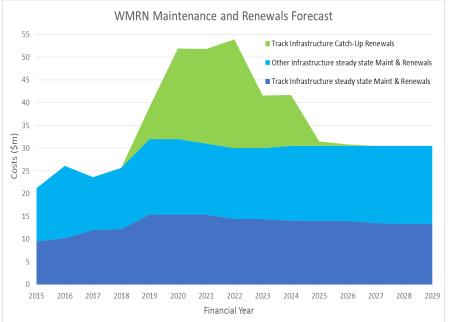
- Extend the Auckland Metro Electrification from Papakura to Pukekohe, including new EMU stabling
- Provide an additional power feed from Drury
- Create an additional platform and freight bypass at Pukekohe Station
- Extend the ETCS train signalling system
- Improve corridor safety improvements at level crossings.
- Stations by Others
- Start in FY19 completed FY23 \$202m
- Line electrification, bridge, civils





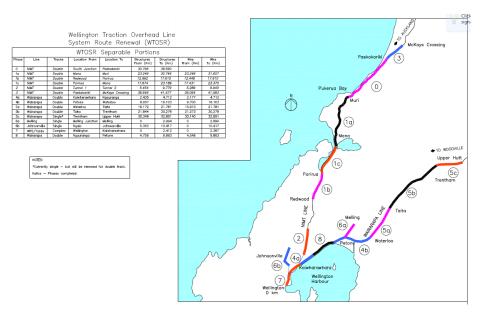
Wellington Metro rail network faces a combination of;

- A growing work bank of deferred renewals
- A rapidly rising work-bank of long term renewals coming due
- Increasing patronage with peak limits being reached soon
- Limited scope for competing modes to grow capacity
- Combined with aspirations for significant growth expected and required in 2020's





- "Catch up" renewals of Traction Overhead Line System
- Eliminate all remaining legacy traction OHL:
 - WRS and yards
 - Hutt and Melling Lines
 - Ngaio Johnsonville
 - Any isolated legacy OHL
- Complete the replacement of 3.3kV aerial signals power supply with ducted 600 V system.
 Started in FY18 completed FY21
- \$98.4m Crown funded under way and largely committed



- "Catch up" renewals of Track, Structures and Civil assets
 - Track and formation
 - Major tunnels
 - Slope stability
 - Four bridges
- Significant end of life in coming decade
- Start in FY19 complete FY26
- \$95.8m
- Some studies funded
- Civil and rail systems
- Probability Very High



11

- Providing enhanced infrastructure to allow longer and more electric trains
- Meet growing demand
- Enhance growth
- Start in FY19 complete FY23
- \$97.7m (plus \$3.0 further GW funding)
- Traction overhead, traction power, signalling, civil and rail systems
- Power study under way funded under WMUP II



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Northland

- Northland is an Orphan
 - North of Kauri and Dargaville is mothballed very poor asset
 - South of Kauri
 - Axle weights are low by industry standard <18 tonnes
 - 6 bridges in very poor condition
 - Tunnels too small for standard export boxes on standard wagons
- Marsden Point is an orphan port given that it has no rail link
- Figures we have used in the public domain
 - Marsden Point c\$200m
 - North Auckland Line South of Whangarei c\$100m
 - North Auckland Line North of Whangarei incl. Dargaville Line c\$60m
 - Ongoing network maintenance/renewal c\$15m per annum



- Ships and related infrastructure nearing end of life
- There is insufficient capacity to cope with growth in the market
- Buying new ships
- New marine and land side
 infrastructure
- Connections to other networks
- New ships and work to be completed 2022/23





- About a quarter of the restoration project remains for NICTR
- KiwiRail commences daylight train services this month
- Tunnel 21 between Blenheim and Ward remains the last major engineering challenge to the business.
 - Severely damaged, the business looks for an enduring solution
 - Currently in design but most probably involves a major route realignment to navigate around





Typical work programmes include;

- Bridge design and construction
- Building/facilities design and construction
- Specialist design, fabrication and construction i.e. CABA
- Heavy maintenance design and construction
- Civil, track, signals consolidated programmes i.e. Level crossings
- Technical and specialist options analysis/review





"Grow the next generation of capability and capacity in the rail industry"

What we will be looking for are:

- Partners for the long term rather than short term designers and builders
- Growing together
- Collaboration vs pure engineering or management
- Ability to learn from each other
- Ability to grow the next generation



Questions



CINIRA

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