



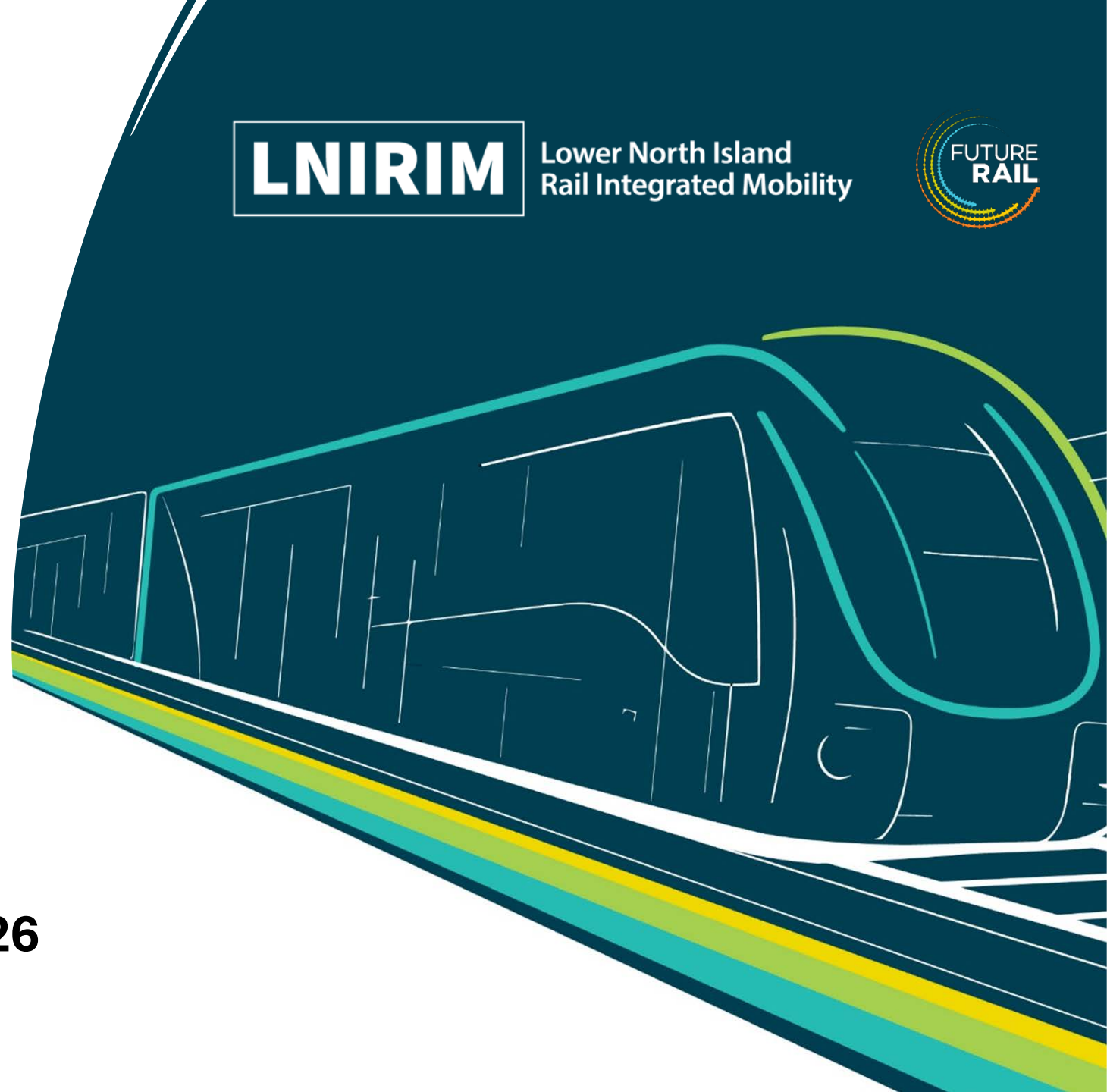
LNIRIM

Lower North Island
Rail Integrated Mobility



The Future with Tūhono

Transportation Conference 2026
10 March 2026



MUL MANAWATŪ LINE
2x Two peak services each morning and afternoon plus off-peak and weekend services

Network improvements to enable additional services

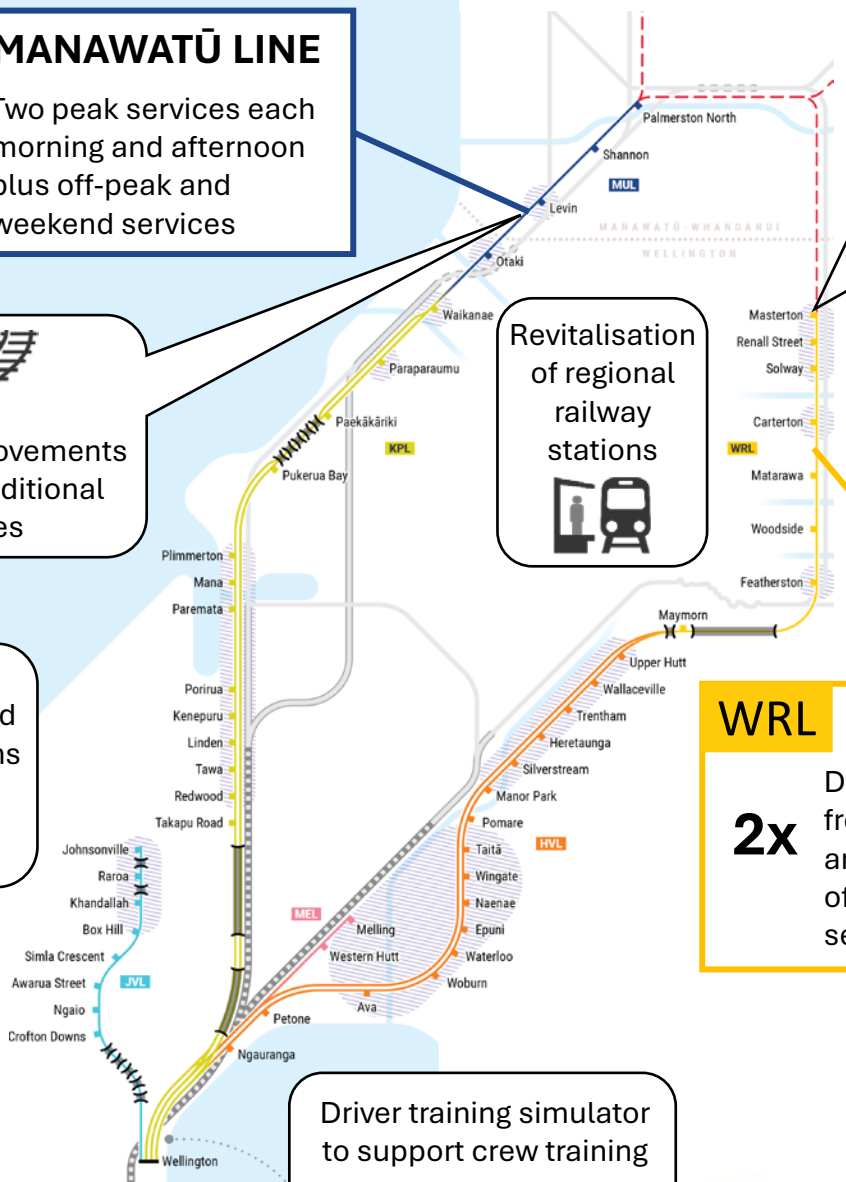
18x new low-emission hybrid passenger trains

Driver training simulator to support crew training

New Maintenance and Stabling facilities

Revitalisation of regional railway stations

WRL WAIRARAPA LINE
2x Double the peak services from 3 to 6 each morning and afternoon, plus more off-peak and weekend services

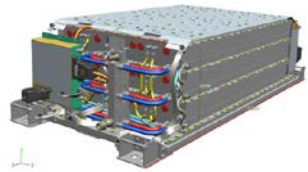


 Provide a critical community link , the only commuter alternative to road, to enable inclusive access to economic, social and health opportunities	 Promote mode shift by enhancing the attractiveness of public transport It will divert 23.8 million trips from the roads, resulting in 0.6 to 1.6 million tonnes of avoided carbon emissions
 Improve the overall transport corridor resilience and capacity with improved frequency, less crowding and better reliability.	 Reduce greenhouse gas emissions with a potential for full decarbonisation as battery technology improves A new tri-mode train will emit 8x less carbon than current diesel locomotives hauled trains.
 Improve public transport attractiveness and mode choice with new amenities It will provide more comfortable, clean and modern trains with good ventilation	 Improve safety by reducing road congestion with safe and accessible rollingstock It will prevent over 100 crashes resulting in serious injuries or death
 Enable value for money with reduced operating risk and increased operating efficiency New services will cost almost 50% less per service, compared to the do-minimum case	 Support economic growth by enabling regional land use plans with transport infrastructure

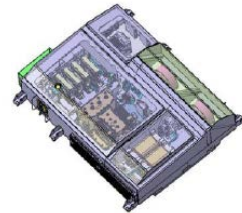


Battery Mode

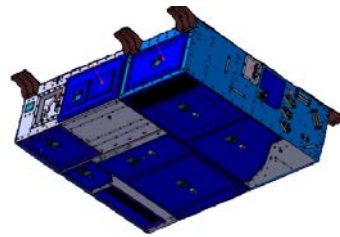
Lithium Ion Battery Pack
 105kW x 3 (DC1) x 3 (IC1) x 3 (IC3) x 3 (DC2)
 = 1260 kWh/IPEMU



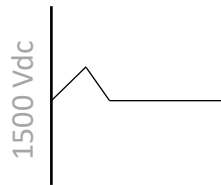
Energy Power Control Management (EPCM)



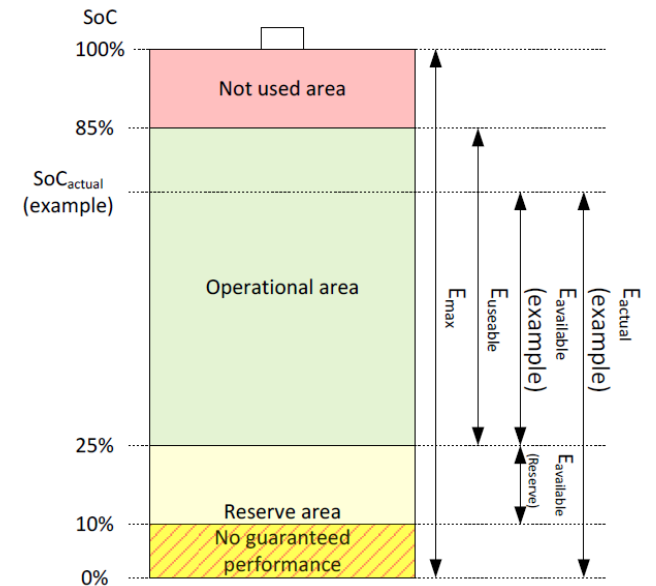
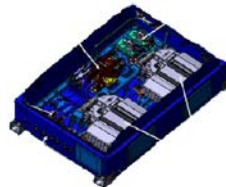
Traction Inverter



Catenary Mode



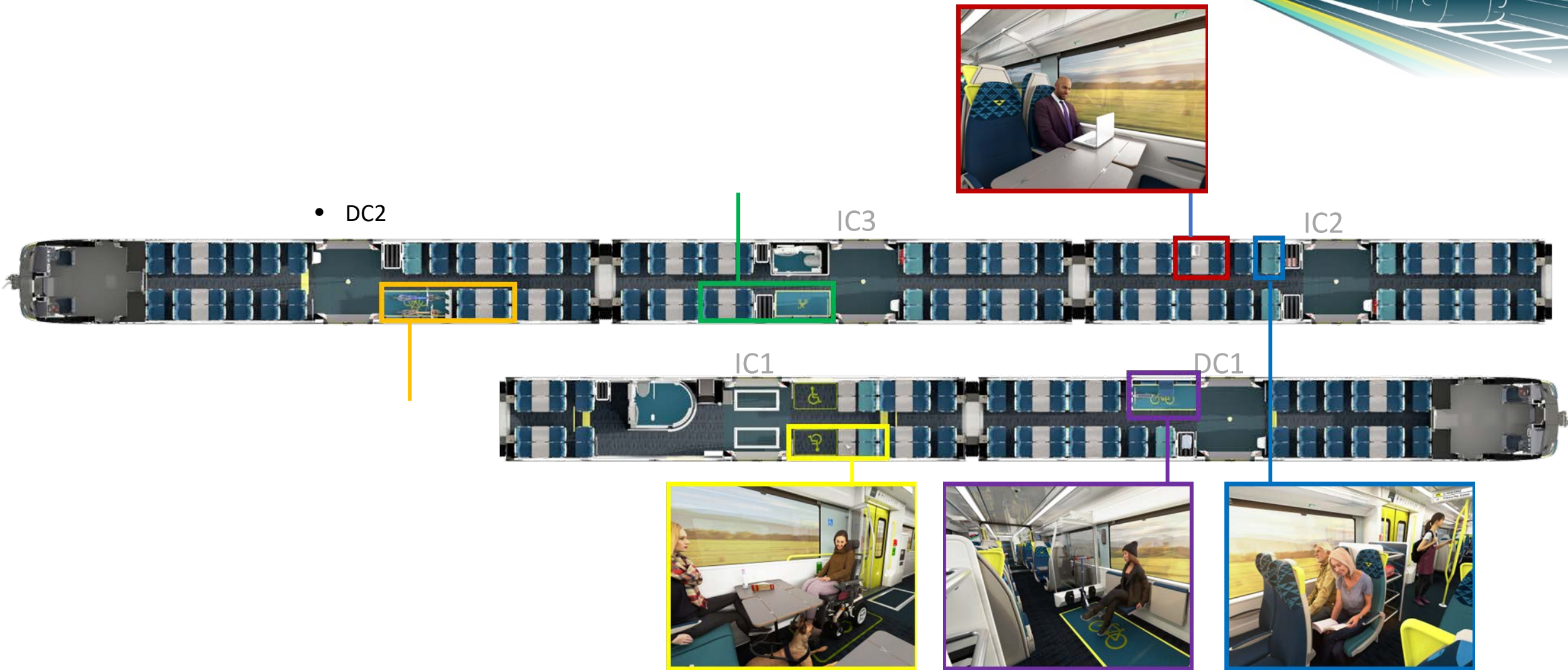
HV Box



Green vehicles that set the standard for emissions performance, reinforcing New Zealand's credentials as a beacon of sustainability







Experience the Journey: From Concept to Commute.

Patai?

Any questions?

