

# Future proofing roading infrastructure for the E – Revolution

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## EV's Registered

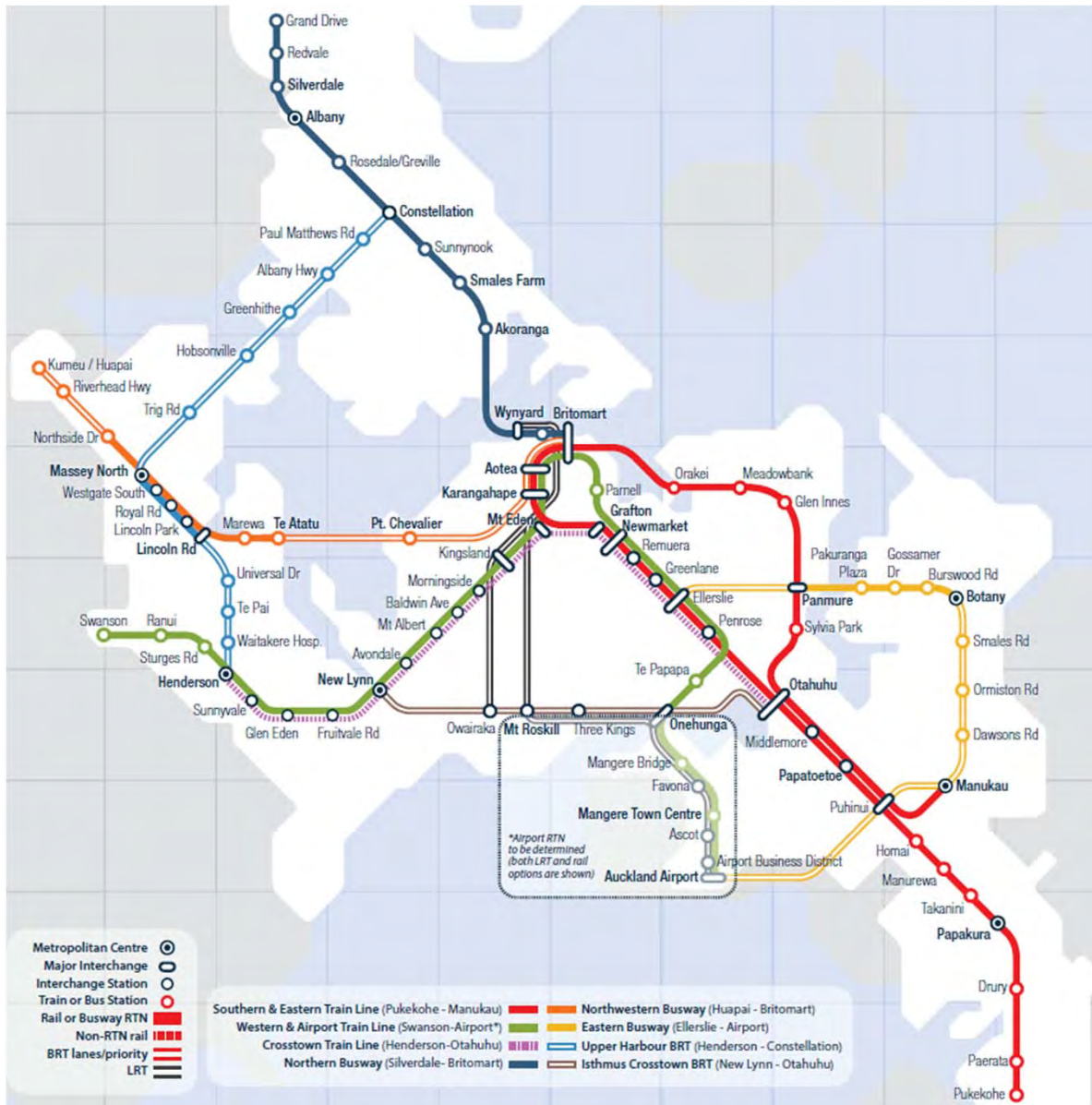
- 500 EV's Registered in 2015
- Increased tenfold to 5000 a year later
- Currently there is 9000 vehicles registered in NZ
- 64000 registered by 2021

We have a revolution on our hands!



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# 3rd decade



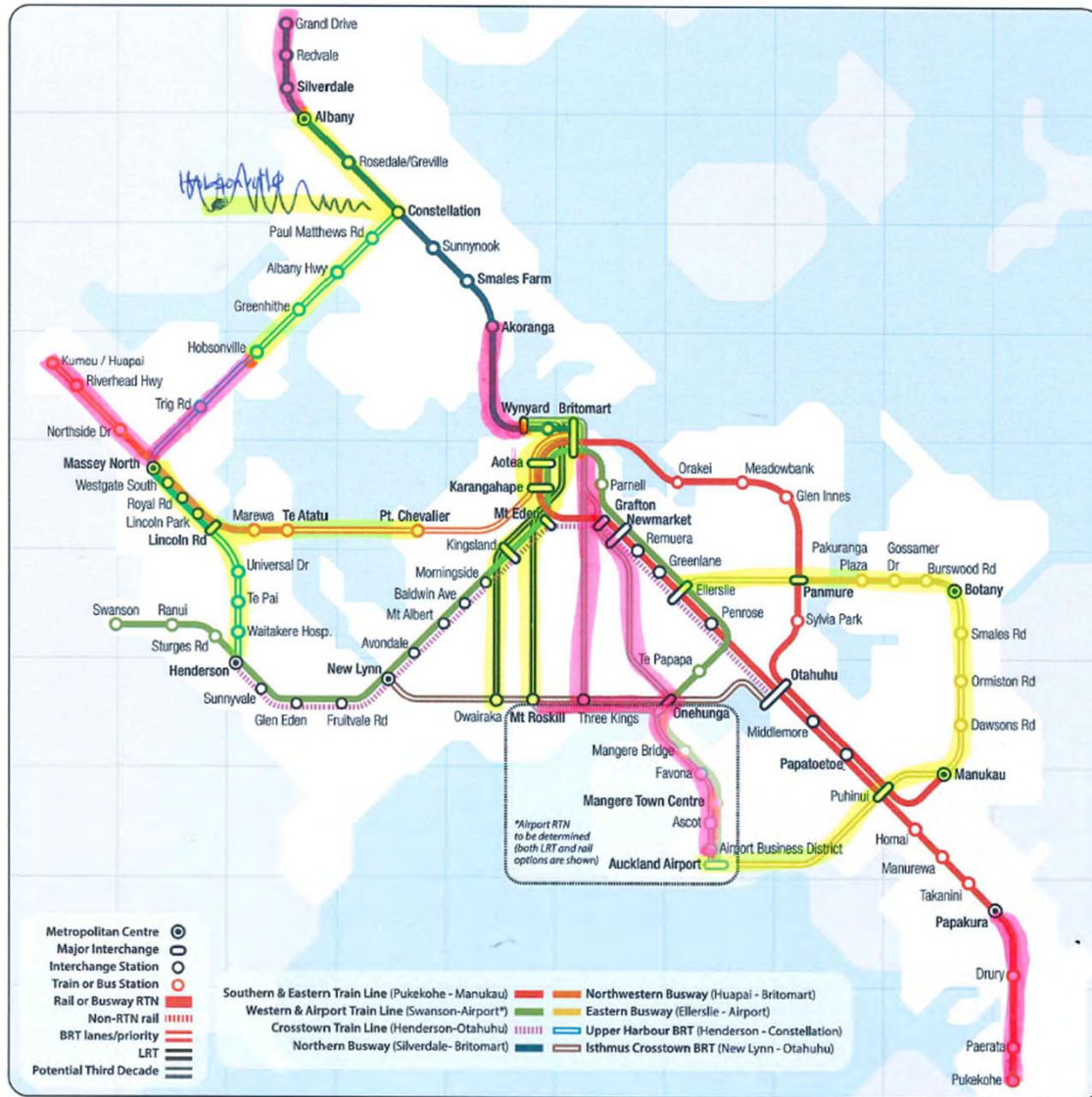


# RTN Network with upcoming roading projects

~~RTN Network~~ To 2046

From 2046 onwards

Title: Electrified roading network (delivered through RTN projects)



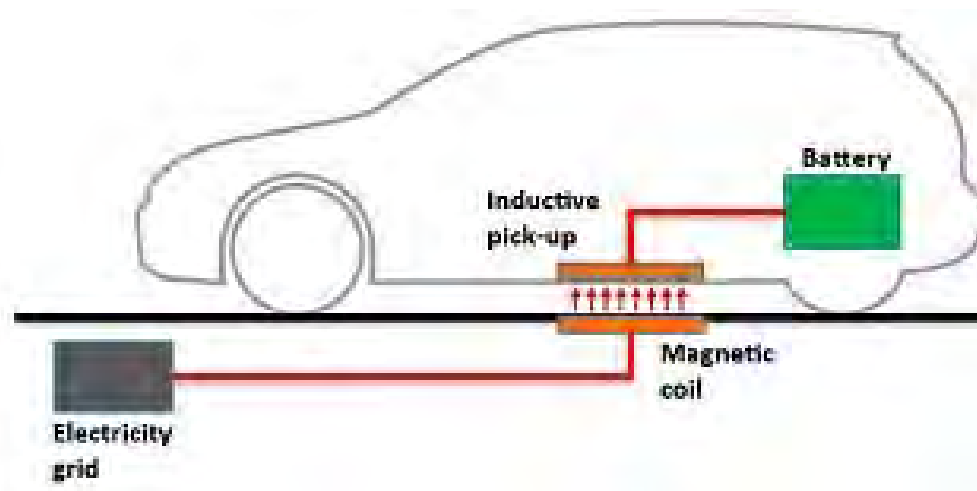
# Concept



- Similar to wireless charging of mobile phones
- Coils imbedded in top asphalt layer
- Transferred to the vehicle via pick up module (Next gen Tesla)

# How it would work

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# Benefits

- Influence car buying behaviour
- Road design in future proofed
- Electrified public transport – (Reach carbon-free target sooner than expected)
- Be a source of data collection



**We can create “Technology Highways”**



# Why not use overheads??

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## Cost savings

- Slow down ever increasing manufacture and freight costs
- Public transport would have lower fares



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# Closing

- Enable change in construction methodology by including E-Road technology
- Mind-set shift that is led rather than driven by transport agencies



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