Future proofing roading infrastructure for the E – Revolution

By Kieran Soma (Project Engineer)
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!
3rd decade
RTN Network with upcoming roading projects

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
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??
Cost savings

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

- Enable change in construction methodology by including E-Road technology

- Mind-set shift that is led rather than driven by transport agencies