

Evolution to Revolution

What Waka Kotahi is doing to help this happen



Context

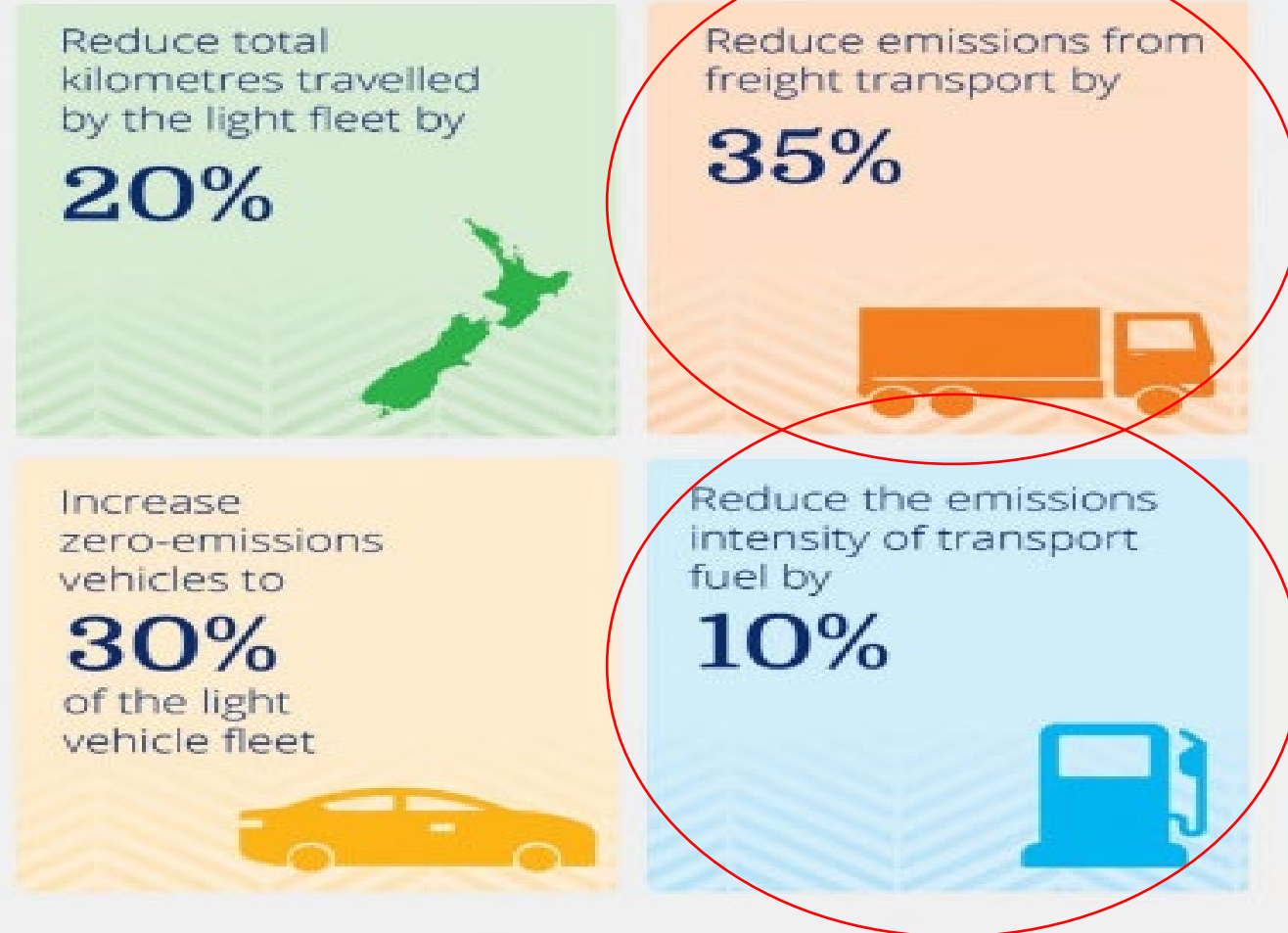
- 90% of all freight moves by road
 - *Limited mode shift to Rail or Coastal shipping in the next 10-20 years*
- Impacts of climate change are already upon us
 - *Increasing severity/frequency of storm events, sea-level rise, flooding, erosion*
- In 2020, the New Zealand Government declared a climate emergency
 - *Committed to reducing emissions to limit global temperature rise to 1.5°*
- Three key shifts required
 - *Decarbonisation – Minimise the impact on the environment*
 - *Efficiency – Optimise end-to-end supply chain*
 - *Resilience – Network and system resilience*

To reduce emissions from transport, we need to change the way people and goods travel

Transport is one of our largest source of greenhouse gas emissions and is responsible for 17 per cent of Aotearoa New Zealand's emissions.

A number of different initiatives in the Emissions Reduction Plan will make it easier and cheaper to access more sustainable transport choices, such as low-emissions vehicles, e-bikes, and public transport.

The Emissions Reduction Plan sets these targets for transport by 2035:



Our focus, the opportunity

How we contribute to reducing land transport emissions by 41% by 2035

ERP focus areas for transport

- 1 Reduce reliance* on cars and support people to walk, cycle and use public transport
- 2 Rapidly adopt low-emissions vehicles
- 3 Begin work now to decarbonise heavy transport and freight

ERP targets for transport



Transport Choices Package

Investment of \$350M for high-impact projects nationally

Delivering a range of mode shift projects by June 2024

Setting the foundation for reducing VKT in New Zealand's main urban areas

Council support package

Network design, construction and maintenance

- Current network predominantly flexible, granular pavement
 - *Underlying geology, seismic risk, value for money*
- Greater weight of HCVs will have adverse effect on network condition
 - *EV impact + 30-40%, H2 impact 6-7%*
- Greater use of structural paving - Rehabs
 - *Faster to lay, water resistant*
 - *Smoother ride, more efficient and lower transport emissions*
- The importance of managing water
- Cost and Contractor Capacity
 - *Long-term commitment and contractor confidence to invest*