

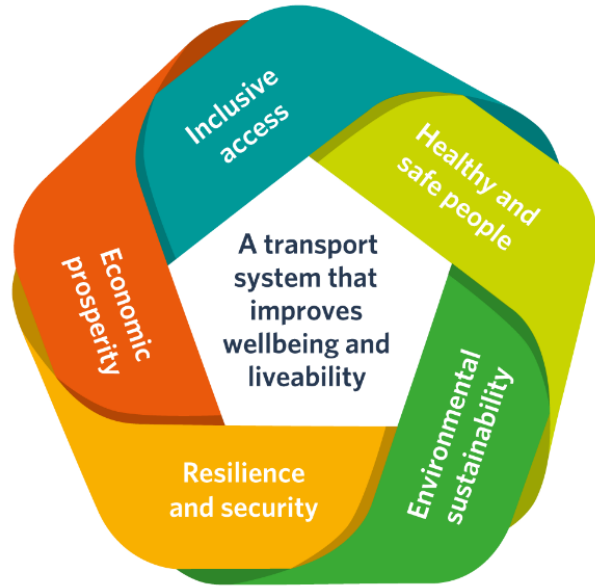


It's important to think about the future

We need a **clear and shared view**
of what we're working towards
if we want to
make a positive difference

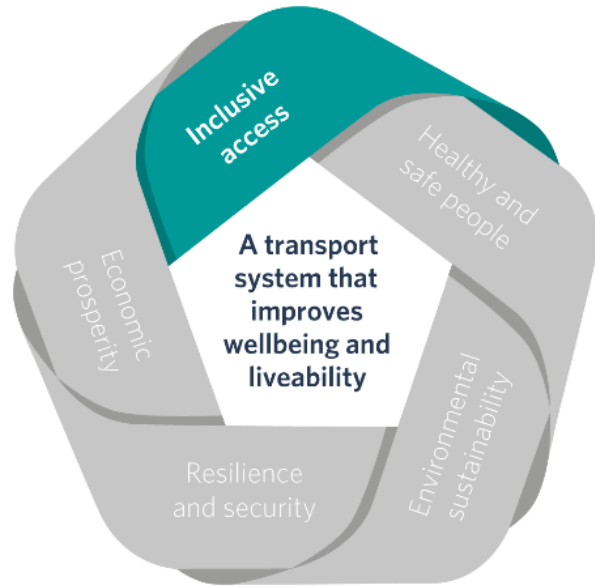


Transport Outcomes Framework



A transport system that improves **wellbeing** and **liveability**.

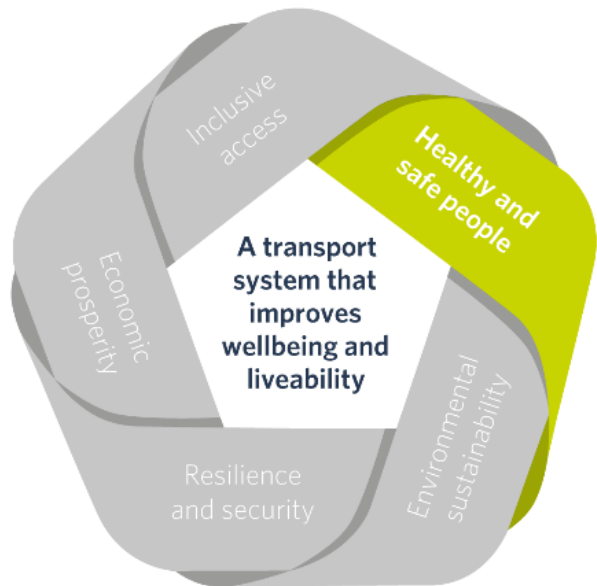
Inclusive access



...enables all people to participate in society through access to social and economic opportunities, such as work, education, and healthcare.

- *Location & distance*
- *Travel options (financially & functionally)*
- *Connectivity (digitally as well as physical)*
- *Land use*
- *Mode options*

Healthy and safe people

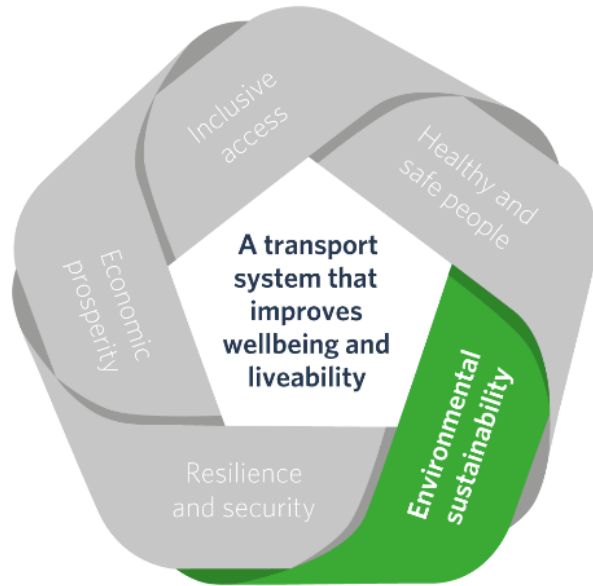


...protects people from transport-related injuries and harmful pollution, and makes active travel an attractive option.

- *Risk to life*
- *Pollution*
- *Diseases of inactivity*

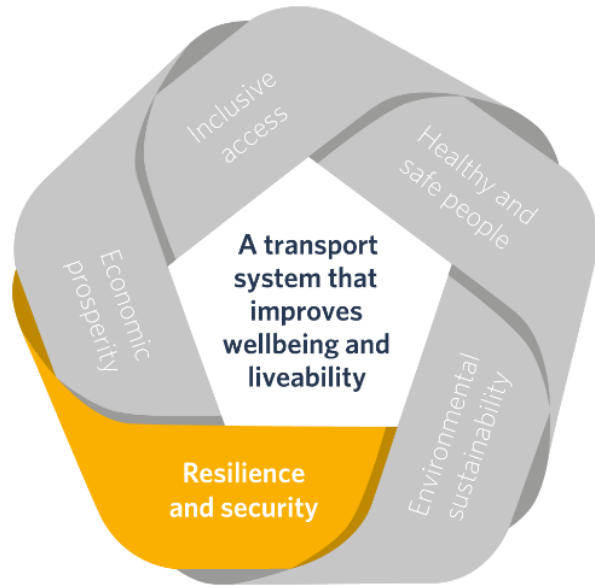
Environmental sustainability

...transitions to net zero carbon emissions, and maintains or improves biodiversity, water quality, and air quality.



- *Vehicle and Aviation Emissions*
- *Accurate Vehicle Emissions Modelling*
- *Fuel use and projections*
- *Vehicle Fleet Analysis*

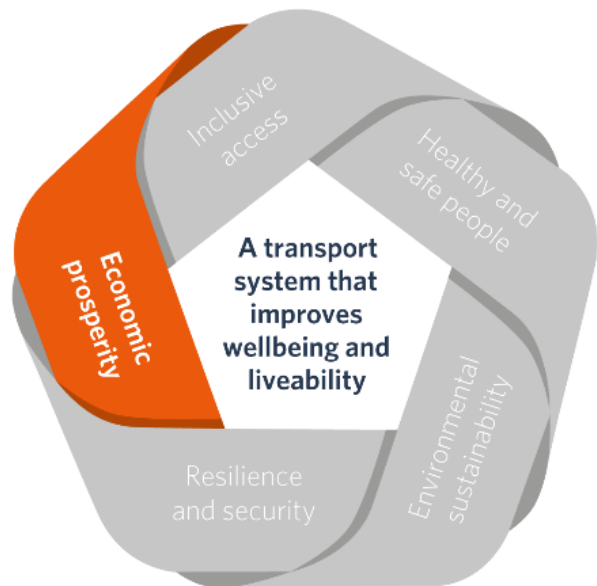
Resilience and security



...minimises and manages the risks from natural and human-made hazards, anticipates and adapts to emerging threats, and recovers effectively from disruptive events.

- *Understanding risk*
- *Frequency of extreme weather events*
- *Resilience of routes, number of credible alternatives*
- *Sea level defence*
- *Events*

Economic prosperity



...encourages economic activity via local, regional, and international connections, with efficient movements of people and products.

- *Value*
- *Volume*
- *System measures*

Outcomes are future focused...

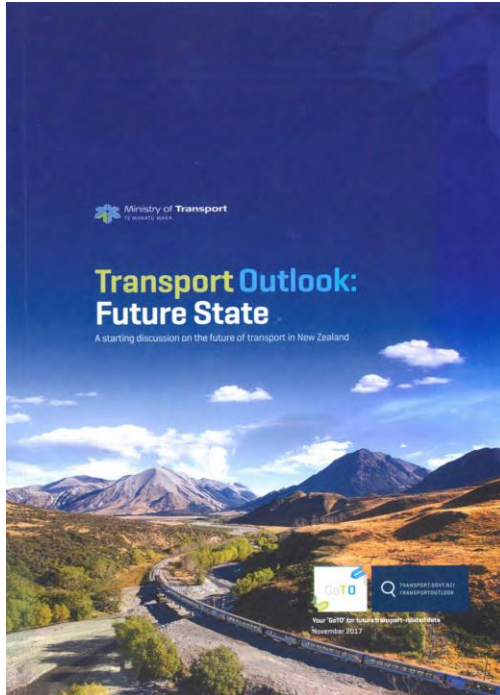
The future of transport will be affected by many sources of change, especially:

- Population and economic growth
- Technological advancement
- Demographics (changes in the mix of ages, incomes, and household types, regional trends)
- Urban design
- Changing tastes and preferences
- Government policy



We need to understand the impact these changes might have on transport outcomes and our progress towards a transport system that improves wellbeing and liveability

Transport Outlook: Future State



It provides:

- ▶ commentary on emerging trends and influences (such as technology, demographics)
- ▶ 25-year projections of future transport demand, vehicle-kilometres travelled, fuel use and emissions, health outcomes under 5 scenarios
- ▶ Aims to provide a base of common information, assumptions, and projections that others in the sector can use for future planning, policy-making and investment
- ▶ Intended as a starting point for discussion in a continuing process of engagement with stakeholders and researchers

Outlook is a system-level model



Aviation



Regional Air
Travel

International Air
Travel

Aircraft
distance
travelled and
emissions

Leg-Based
Departures

Local Travel



Household Travel
(all modes)

Vehicle fleet size
and distance
travelled

Health
Outcomes

Vehicle
Fleet/Fuel/
Emissions

Freight

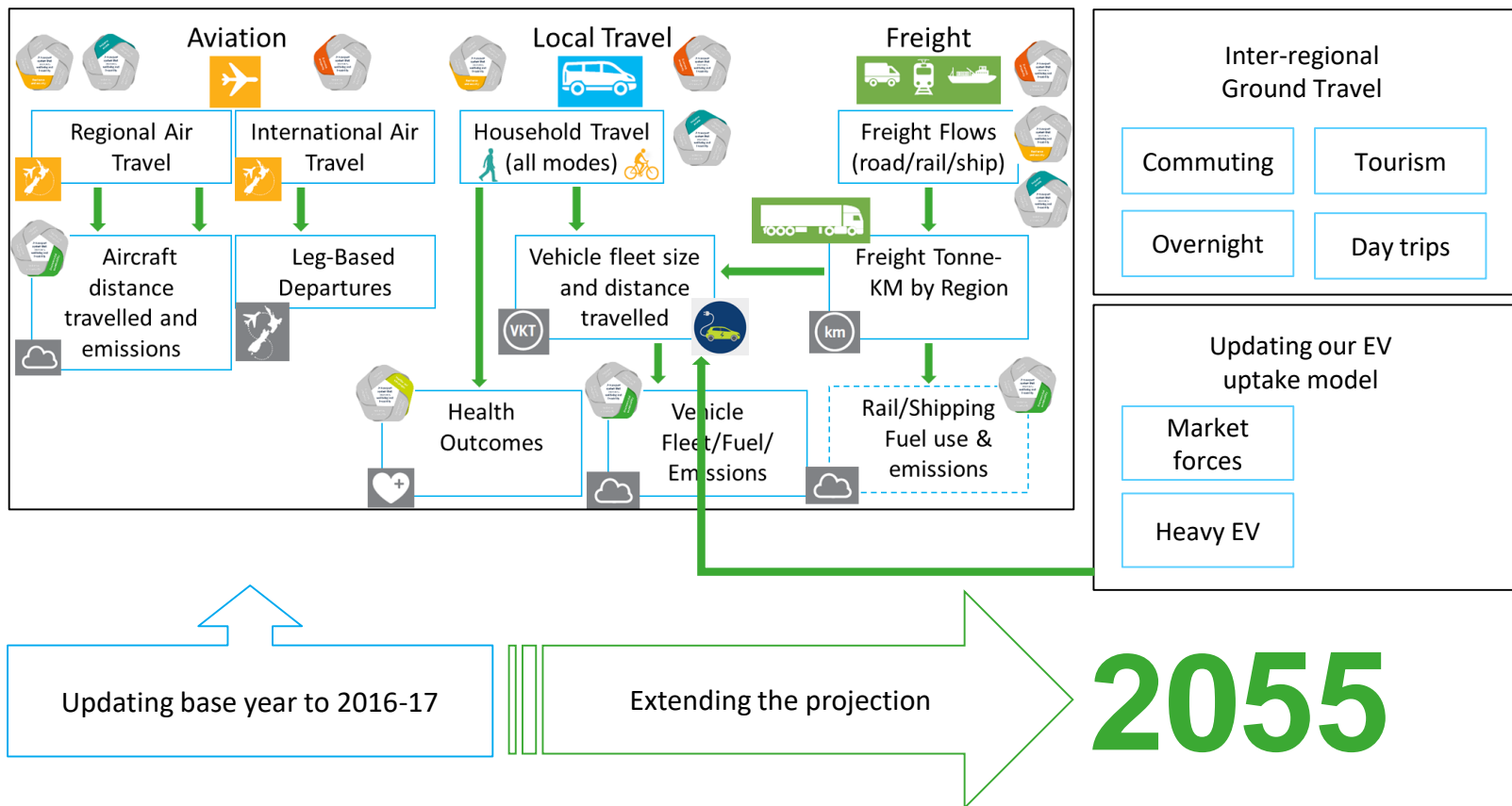


Freight Flows
(road/rail/ship)

Freight Tonne-
KM by Region

Rail/Shipping
Fuel use &
emissions

Work in progress



Having good data on today's transport outcomes and where improvement is needed is important, but in some ways it is just the beginning...



Thank you

