Transport2030: Scenario Modelling

Jenson Varghese and Beth Schuck



Why?

How this all started



Our Mission

The 1point5 Project aims to focus and amplify the voices of those working towards a 1.5°C world. This not-for-profit is generously supported by The Tindall Foundation and Phillip Mills and other generous souls who have contributed time and skills.







Transport2030

What does the model do?



Increase Public Transport Ridership

There are many possible changes which can reduce emissions

Reduce Car VKT

> Improve Vehicle Efficiency

Increase Cycling Mode Share Work From **Incentives**

Increase Public

Increase Frequency

Transport Ridership

There are many possible changes which can reduce emissions

... and even more ways to achieve these changes

Import Restrictions

Improve Vehicle Efficiency

Increase Schemes Cycling Mode Share

Electrification

Reduce

Car VKT

Fuel Tax

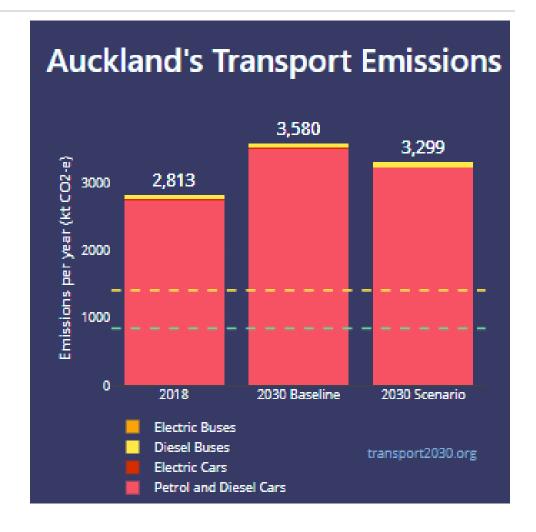
Outputs – What do we want to know?

- GHG emission changes
- Passenger-kilometers travelled (PKT)
- Cars on the road



Emissions

- CO2-e per year
- Baseline emissions, and projected emissions
- Tracking with our goals





PKT

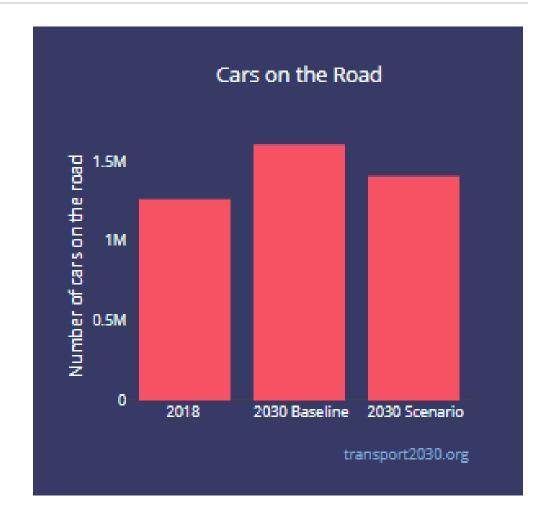
- Proportion of PKT travelled by mode
- Shows diversity of transport choices





Cars on the Road

- Approximate measure for the number of cars on Auckland roads
- Based on VKT from cars





Results and Insights

- We have a range of options
- We need to do some of everything

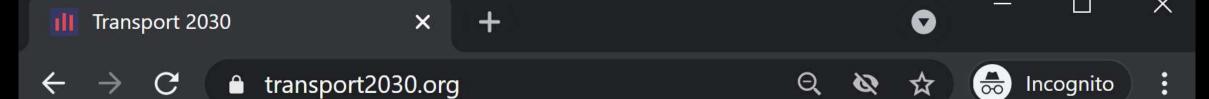




Fare deal or essential service: What cuts congestion and emissions most?







Auckland's Transport Emissions

More than 35% of Auckland Region's emissions come from road and rail transport. This website illustrates how changing Auckland's transport network can reduce its future carbon emissions.



Summary

- Important to look at a regional or nationwide level
- Sustainable transport is important to minimise increases but current planned projects aren't enough
- To meet our goals, we have to fundamentally change BAU (SOVs, number of trips and trip length)



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