# Modelling the emission impacts of transport

The vast majority of transport emissions in the Auckland region come from cars and trucks. Public transport and active modes make up a very small proportion of the total emissions, but these modes may make up a very large proportion of the solution. There are a huge number of changes which could be made in the public transport space, and many options for improved infrastructure for active modes, but it is hard to know which options will do the most to reduce emissions.

The purpose of this paper is to understand whether investment in public transport and active modes alone can have a significant impact on total emissions from the transport system in the Auckland Region. We explore the extent to which public transport and active transport modes can contribute to reductions in emissions from transport in Auckland. Understanding the relative impacts of different options allows for more informed decision-making, allowing us to set a strategy and move towards a low-emissions future.

This research paper will look at the effects of implementing public transport projects on public transport ridership, and understanding the impact of new public transport projects on the whole transport system in Auckland.