# Modelling health co-benefits of decarbonisation

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| The transport system has a variety of health impacts through road injury, pollution (air and noise), and physical activity. Different possible decarbonisation pathways will vary in their health impacts. Simulation modelling provides an opportunity to assess differences in the health impacts of decarbonisation pathways. We are currently updating an established epidemiological model - the Physical Activity and Active Transport Model (PAATM) – so that it is tailored to assessing the health impacts of transport decarbonisation. Key features of the updated model include:* Captures impact of policies on injury risk, physical activity, pollution, and other risk factors
* Comprehensively assesses equity implications
* Assesses health, emissions, and cost impacts over time
* Disaggregates results by city, region, area-level deprivation, gender, age, and ethnicity
* Parameterised with latest health, transport, and costing data

Our model is the first comprehensive epidemiological model built in and for Aotearoa New Zealand that is specifically tailored to inform discussion around decarbonisation pathways in our context. We welcome the opportunity to inform conference participants about our methodological approach, and engage with wider sector around the opportunities for simulation modelling to inform decision-making in this space. |