# Micro Mobility to Decarbonise Transport

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| Auckland is New Zealand’s biggest City and with that title comes the award for the greatest congestion in the country. The challenging geographic layout of Auckland being a narrow isthmus, low population density, unpredictable weather, disaggregated workplaces, amenities, communities and the COVID-19 pandemic makes movement around Auckland City a challenge at the best of times.  Micro Mobility is typically a range of small, lightweight vehicles operating at low speeds and are human powered or electric. The key is that the profile is singular/small/narrow and that it makes optimal use of existing road/footpath infrastructure. Motorcycles also make optimal use of road infrastructure and studies have shown that if the uptake was >10% on the roads then that would be enough to reduce congestion. Of course, not everyone can ride a scooter, bicycle or motorcycle to work for various practical reasons and with the COVID-19 pandemic many have moved away from public transport and returned to single commuter motor vehicles.  The narrow profile MicroCar EV is an enclosed three or four wheeled vehicle that has the same road profile as a large motorcycle but is fully enclosed like a car. It is proposed that if the uptake was >10% on the roads then that would be enough to reduce congestion. The reduction in greenhouse gases would be two fold from both the new EV mode of transport and the reduction of congestion.  This paper explores how a MicroCar EV transportation mode of travel might be planned, developed, manufactured and operate on Auckland motorways. |