

## ABSTRACT SUBMISSION FORM

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### Paper Details:

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#### Overview of Presentation

Each year Auckland Transport (AT) identifies a number of Auckland schools for targeted transport network safety improvements. The program has the ultimate goal of improving the safety of school travel and increasing the mode share of walking and cycling. The existing method of prioritising schools takes a reactive approach, on the basis of crash history. Abley Transportation Consultants were commissioned to develop a robust, proactive risk-based prioritisation method, which would identify schools where the greatest safety and mode share benefits might be achieved.

The research utilised data collected as part of the TravelWise schools program and assessed aspects of accessibility, socio-demographic factors, and transport network risk by active and vehicle modes. Analysis indicated that travel time is the most meaningful predictor of current school mode choice. The new prioritisation method uses a range of risk assessment methods to prioritise schools by the potential to increase the number of students with safe access.

The process developed by the research presents a smarter way to prioritise schools proactively: by considering the potential to reduce school travel risk. Smarter outputs at a school level identify areas of risk and safety impediment so that interventions can be more readily identified.