

## ABSTRACT SUBMISSION FORM

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#### Overview of Presentation

Selecting the best kind of pedestrian crossing for a given road can be a tricky task. The wrong facility in a given location may encourage pedestrians to cross unsafely, reduce vehicle compliance or cause undue delay to pedestrians and drivers. In Australia there are no consistent guidelines to assist professionals in determining the most appropriate facility. While the New Zealand Transport Agency has developed a spreadsheet-based tool, it primarily uses economic performance, including the cost of crashes, to determine the best type of crossing and does not consider other softer measures for determining 'appropriateness'.

This research developed a smart web-based tool applicable in both New Zealand and Australia to assist practitioners in selecting the most appropriate crossing. The web tool can assess raised platforms, kerb extensions, median refuges, zebra crossings, signals, grade separation and appropriate combinations of these physical aids and priority measures. Unlike existing tools it can assess crossings proposed for intersection or midblock locations, and accounts for the level of service experienced by pedestrians, safety implications and economic factors such as delay to vehicles. The user friendly design, web-based implementation and wide range of facilities that can be assessed by the tool present significant improvements over existing crossing selection tools.