

ABSTRACT SUBMISSION FORM

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Overview of Presentation

The Safer Journeys Action Plan 2013-2015 identifies Safe System signature projects as a strategic action to achieve the Safer Journeys vision. Safe System signature projects are exemplar projects that adopt a complete safe system approach to road safety. The Eastern Bay of Plenty has been identified as an area where a signature project has the potential to make demonstrable advances in reducing road trauma for all road users.

This paper describes a risk prediction model that Abley Transportation Consultants has developed to estimate risk based on traffic volumes, road alignment, lanes widths and other geometric data. The key development is a vehicle speed model, which identifies out-of-context curves using a road centreline dataset. The risk prediction model highlights parts of the network where road and roadside interventions are likely to have the greatest safety outcomes.

The risk prediction model is combined with the Urban KiwiRAP model to ensure road safety investment decisions are well informed and take into account both historical crashes and the risk associated with physical characteristics of the road network. The latter is a particularly important consideration in lower volume road networks where crashes tend to be more random events at dispersed locations across a network.