Safe Sustainable Future

IPENZ Transportation Group Conference 2017
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Distinction Hotel
Hamilton

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Key author for correspondence:			
First name	Michael	**Surname**	Jongeneel
Organisation	Flow Transportation Specialists		
Postal address	PO Box 47497, Ponsonby, Auckland		
E-mail address	michael@flownz.com		
Phone number	09 370 0570	**Mobile**	0274 722 570

2nd co-author:			
First name		**Surname**	
Organisation			

3rd co-author:			
First name		**Surname**	
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Paper details:	
Presentation title:	Evaluating the Auckland Cycle Model

Overview of presentation (300 word maximum)

Include details of topic scope, key findings, and any issues for discussion or further investigation

Traditional transport planning uses transport modelling techniques to forecast future travel demands, and to evaluate users' mode and route choices. These transport modelling techniques are well established, widely accepted and relatively well understood, but have almost exclusively focussed on motorised modes of transport.

New Zealand is investing in cycle infrastructure at a previously unseen rate, and with this investment comes the need for credible cycle demand estimates, to ensure this investment is used in the most effective way. Techniques for cycle demand forecasting are however in their infancy both in New Zealand and internationally.

To meet this need, Flow Transportation Specialists developed the Auckland Cycle Model in 2015 to assess future cycling demands on Auckland's growing cycle network. The result was a cycle demand estimation tool that responds to projected changes in Auckland's land use and to improvements to cycle infrastructure, estimating the quantity of mode shift that might occur following given cycle projects. The model was subsequently used to estimate future cycle demands for a range of cycle projects across Auckland.

But how accurate is the Auckland Cycle Model at predicting cycle demands, and to what extent can we rely on the model's outputs? This paper uses historic 'before' and 'after' cycle count data for a range of recently completed cycle projects, and compares these to retrospective 'forecasts' using the Auckland Cycle Model to assess the model's reliability.

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