



**Design.  
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Technology.**

IPENZ Transportation Group  
Conference 2016  
Auckland 7-9 March

Pullman Hotel, Auckland



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### Paper Details:

Presentation title:	Big Dividends from Big Data: What Can 40 Million Trips tell us about the Transport Network?
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### **Overview of Presentation** (200 word maximum)

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

Over the last three years, we have rapidly moved from a data poor to a data rich environment. New technologies and innovations have allowed us to gain insight into the performance of the transport network in ways never before possible.

This paper summarises the findings from two recent national research studies showcasing how Big Data is changing the way we understand the performance of the transport network.

A recent Ministry of Transport research study used 40 million trip observations to identify where on the 10,000km strategic network freight would most likely experience delay, with coverage of the network well beyond what was possible until very recently. The study also identified the freight catchment areas of New Zealand's seven largest ports and how these catchment areas translate into demands on the road network.

The second study involves changing the way New Zealand measures success. Recent investment and innovation is allowing the NZ Transport Agency to assess and report on urban network performance every 15 minutes, every weekday, every day of the year. The Agency has tackled the challenge of the question "how predictable is customer experience on our networks?" And the answer requires a completely different approach to network performance.

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