

## ABSTRACT SUBMISSION FORM

### Key Author for Correspondence:

<b>First name</b>	Chris	<b>Surname</b>	Morahan
<b>Organisation</b>	Opus International Consultants		
<b>Postal address</b>	PO Box 1482, Christchurch 8140		
<b>E-mail Address</b>	chris.morahan@opus.co.nz		
<b>Phone number</b>	03 4231162	<b>Cell Number</b>	0212443825

### Paper Details:

<b>Presentation title:</b>	Congestion: What are Christchurch's Worst Offending Roads?
----------------------------	--

#### Overview of Presentation

As part of their mandate to "get the greatest efficiency out of the existing roading network", the Christchurch Transport Operating Centre installed bluetooth sensors in 2013 throughout Christchurch. As well as providing real-time data for a host of operational uses, the data from these sensors have been monitored on a monthly basis to get a better understanding of the city's congestion hotspots. The large volume of data necessitated the development of sophisticated analysis tools and geospatial systems to present the results in a useful way.

The intention behind this project sits firmly in the "Smarter" theme of this conference. The bluetooth sensors provide a vast amount of incoming data about traffic flows; developing methods of processing these into meaningful information which contributes to smarter decisions being made about the transport network was the challenge of this project.

This presentation will briefly describe the tools developed to monitor congestion in Christchurch, and present the results including a reveal of Christchurch's most congested roads, comparison of different routes through the CBD, and an investigation into variation of travel time along routes.