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 **Wellington Tunnels Alliance**

Traffic Modelling of Diverted Flow during the Wellington Tunnels Upgrade


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Outline

- Project objectives
- Why an alliance
- Project overview
- Challenges
- Modelling tool
- Outputs and results
- Lessons learnt

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Objectives



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Alliance



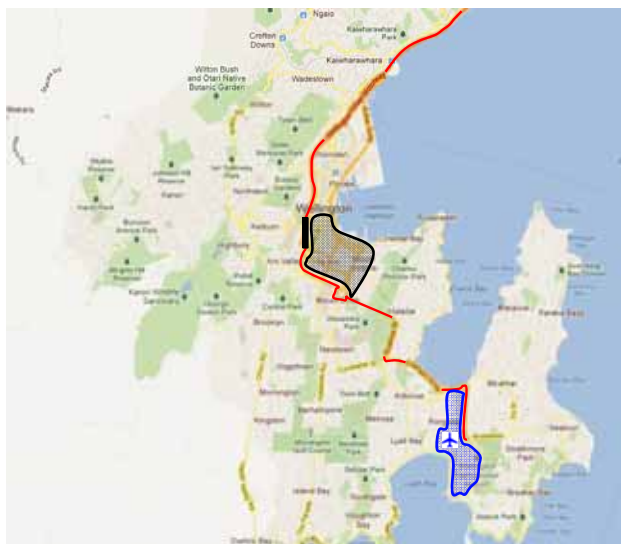
" We will deliver the tunnels unnoticed"



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Location



Challenges

Fire-risk Wellington tunnels set to be closed

BY DAVE BURGESS

Last updated 05:00 24/05/2010

Round-the-clock gridlock has been expected to last several weeks to kickstart a \$80 million

The five-week simultaneous tunnel closures will start in December when many people are

NZTA says the upgrade of the tunnels will

Terrace Tunnel work to last nine months

AMANDA FISHER AND DAVE BURGESS

Last updated 08:58 04/12/2010

9 comments Text Size Print Share

News

Wellington's Terrace Tunnel will be out of full working order for the next nine months to increase the risk

Terrace Tunnel in a new light

Last updated 15:35 08/11/2011

5 comments Text Size Print Share

News

- Quick fix' proposed for Ngaio School
- Porirua closer to getting artificial sports field
- Ecologist warns of Gully risk to fish

Wellington drivers have a brighter journey through the Terrace Tunnel after new high-tech lights were switched on.

The lights, which are part of NZTA's \$50 million upgrade to the tunnel, will operate round-the-clock and can automatically adjust to outside conditions.



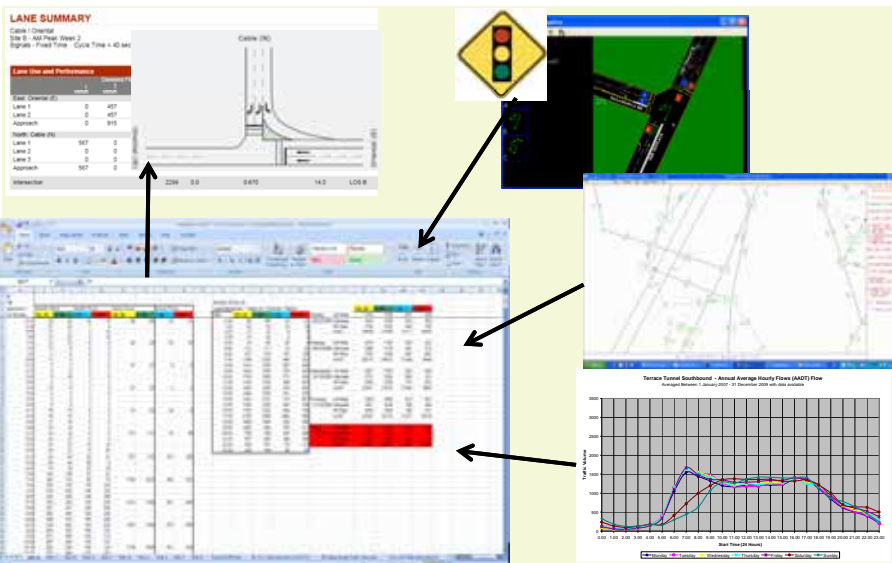
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Location – Further Details



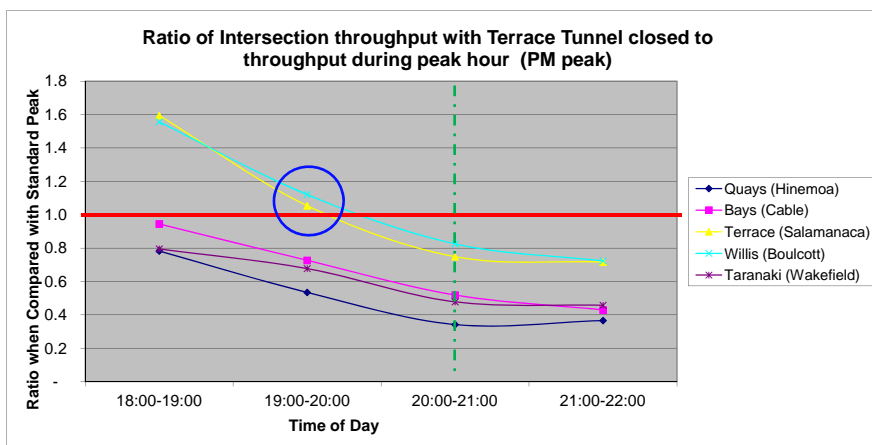
Methodology - Inputs



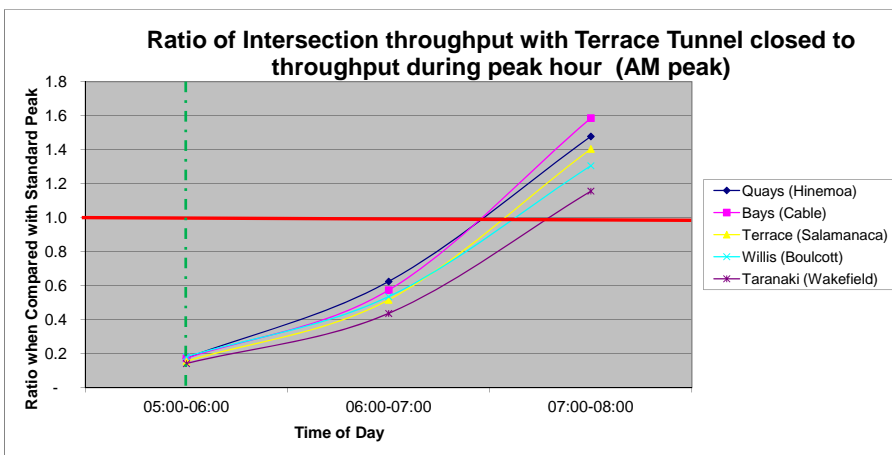
Key Intersections



Methodology - Outputs



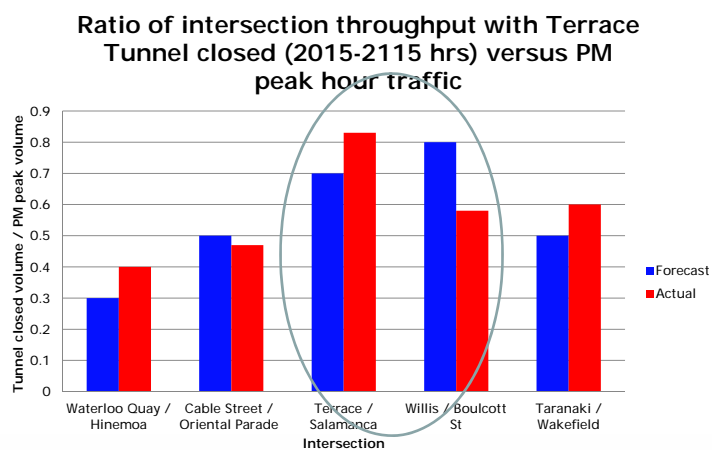
Methodology - Outputs



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Results – Forecast vs Actual Ratios

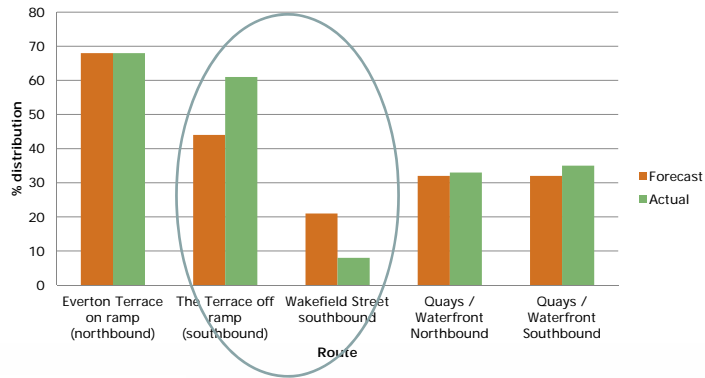


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Results - Distributions

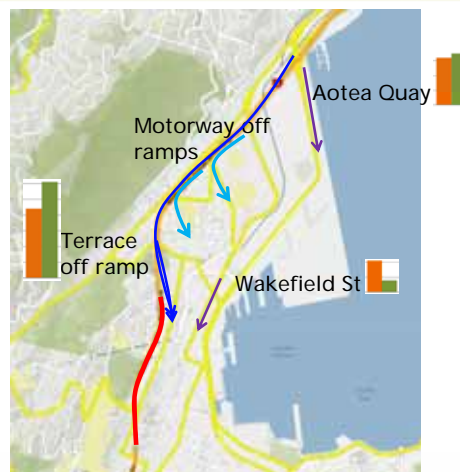
**% Distribution of Terrace Tunnel traffic on key routes
Forecast v Actual**



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Results - Distributions



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Summary



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Thank you





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Session H: Cost Effectiveness



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Thomas Small Martin Peake

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Tunnel Upgrade Project**