Auckland-Hamilton-Tauranga Case Study

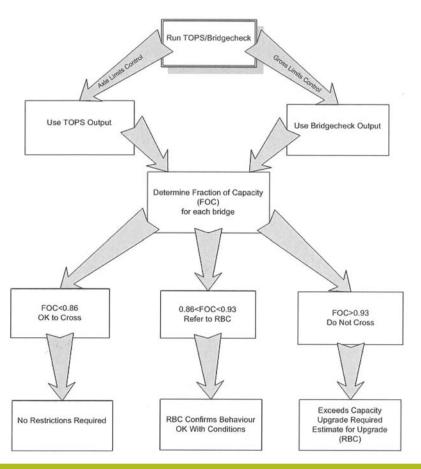
Nigel Lloyd (Acting National Structures Manager)

23 April 2010





Assessment Flowchart



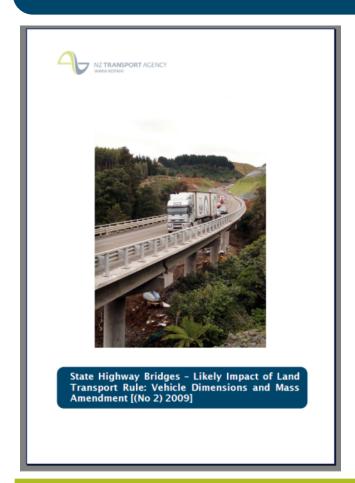
HPMVs differ from overweights:

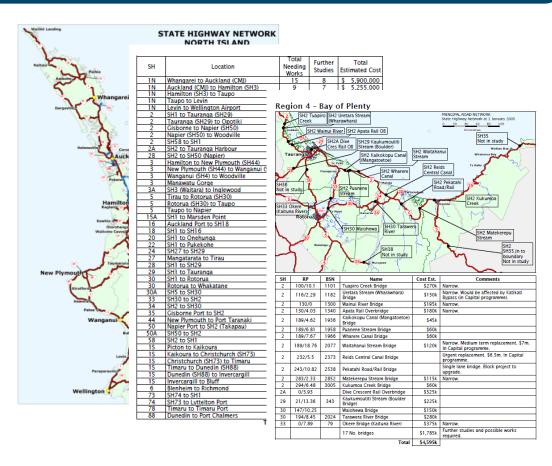
- More frequent
- No restrictions on speed or lane position allowed

Different assessment process to overweights



Initial SH Network Study







Network Availability







Auckland-Hamilton-Tauranga





Preliminary Findings – SH1/29 Capital Costs



- 8 bridges to strengthen
- All on Auckland southern motorway
- Rough order cost \$15m



Preliminary Findings – SH1/29 Maintenance Costs



For pavements:

- 7.4% increase in loading over a 20 year analysis period
- Strong rutting projections on this route as already under heavy load



A final thought

The loads that bridges need to carry have changed beyond recognition



Traction Engine 1912



Volvo 2010

