

Presentation Outline

- Effect of Speed on Safety
- Speed Management Plan process
 - NZTA speed/risk data maps
 - Speed implementation options
 - Keys to limiting vehicle speed
 - Common Concerns with lower speeds





• 29% of fatal crashes had a speed factor

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On par with drink-driving as our biggest road safety problem





Urban vs Rural speeds

- Rural roads a problem for $\ensuremath{\textbf{M.Vehs}}$
- 80% of fatal MV crashes happen on 80+ km/h roads
- 75% on 100 km/h roads
- Urban roads a problem for **active** mode
- Most walking/cycling in urban areas
 But 40% of all walk/cycle fatals still occur in 80+ km/h roads

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Speed Management Plan: Step by Step

Suggested steps for developing a strategy plan:

- . Review existing NZTA maps/data, identify preliminary proposed treatments 2. Consider additional local information (strategies, feedback, etc) for each site
- Optional: Undertake community research to gauge opinions on road risk (incl. speed) 3. Identify the most suitable management option(s) for each road section
- 4.
- Determine appropriate treatments to implement the desired management options (signage, markings, physical works, etc) and estimate likely costs 5. Develop a prioritisation plan for the work to inform 2018-21 LTP & beyond
- 6. Present the proposed management and implementation plan to Council 80
 - and the public, together with relevant supporting information Revise the plan based on feedback received from Council / stakeholders 30
- Programme and implement projects, and continue to monitor results













(2) "Local calibration" of NZTA speed data

May be other factors not captured by this data that influence the decision to adjust a speed limit, e.g.

- Improvement in amenity for adjacent local residents & businesses
- Encouragement of more walking and cycling
- Alignment with local area strategies or corridor plans
- Coordination with **existing** planned programme works
- Local support (or otherwise) by communities for speed changes

 Local support (or otherwise) by communication of adjacent road sections to provide consistency Initial recommendations from NZTA need to be "sense tested" and adjusted to reflect these factors























Good Speed Limit Practices

- Limit is appropriate to road function
 High conflict areas may have lower limits
- High conflict areas may have lower limi
 Speed zones of adequate length
- Avoid frequent changes of speed limit
- Clear and regular signposting
 Esp. if not "self-explaining" road environment
- Don't apply to compensate for hazards
 But could address deficiency in short term

Is it the speed limit that needs changing?









Contributors to higher vehicle speeds

Road Length – visual and physical

 Treatments: Have street sections < 250m, Limit forward sight distance (plantings, realignment)

• Road Width – perceived and actual

 Treatments: Reduction in visual or actual width (kerbs extensions, plantings, wide lines), Pavement deflections (chicanes/islands)

> 80 30

Smooth Surfaces

Treatments: Cobbled/tiled pavements, Vertical deflections
 (humps/platforms), Rumble strips

















(6) Public & political engagement

- Focus on risk highlight safety record and relative severities
- Have data! Risk ratings, Speeds, Community concerns, etc
- Explain the **link** between speed and casualty rates • Lots of research, in NZ and overseas
- Demonstrate a strategy that considers all options
 Talk to everyone (residents, schools, active users, etc)
- Not just motorists (AA, RTF, etc)
- Have ready answers to pre-empt the usual concerns
 Such as...

80









Summary: Speed Management Plan process

- Suggested steps for developing a strategy plan:
- 1. Review existing NZTA maps/data, identify preliminary proposed treatments
- Consider additional local information (strategies, feedback, etc) for each site
 Optional: Undertake community research to gauge opinions on road risk (incl. speed)
- 3. Identify the most suitable management option(s) for each road section
- Determine appropriate treatments to implement the desired management options (signage, markings, physical works, etc) and estimate likely costs
- Develop a prioritisation plan for the work to inform 2018-21 LTP & beyond
 Present the proposed management and implementation plan to Council
- and the public, together with relevant supporting information 80
- . Revise the plan based on feedback received from Council / stakeholders
- Programme and implement projects, and continue to monitor results

Conclusions

- Speed continues to be a problem in NZ
 - Driver speed greatly affected by road environment
 - Inappropriate speed limits for the conditions
- Setting speed limits easier now in NZ
- But required network review/consultation process still takes work
 Lower speed limits (+ traffic calming) still under-used in NZ
 - Plenty of "low hanging fruit"

Do we fit the speed limit to the road or fit the road to the speed limit?

