Safer Journeys Risk Assessment Tool (Mega Maps)



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Haris Zia Steve Ford Paul Durdin Dale Harris

Insightful solutions. Empowering advice.

Should the speed limit on Rotorua's urban roads drop to 40km/h? NZTA thinks so

Wednesday, 12 June 2019

More speed cameras, bigger fines could be down road

7 Jun. 2019 11:31am

Speed limits 'unsafe' on nearly all NZ roads, says NZ Transport Agency's Mega Maps planning guide Thursday, 6 June 2019

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100kmh limit too high for most roads in South: NZTA Speed limits too high on most roads, NZTA estimates



Speed Management Framework

Table 2.2 Proposed Safe and Appropriate Speeds classification method - Rural Roads (incl rural towns)

Function / Feature		Road Safety Metric	Infrastructure Risk Rating	Safe and Appropriate Speed (km/h)
•	ONRC is Class 1 Median Divided and at least 2 lanes in each direction No direct property access Grade separated intersections	 Personal Risk ≤ Low- Medium; Collective Risk ≤ Medium-High; 	• 'Low'	• 1107
•	ONRC is Class 1 - 3 Sealed road	 Personal Risk ≤ Medium; Collective Risk ≤ Medium-High; 	 'Low' or 'Low- Medium' 	• 100
•	Any ONRC	 Personal Risk ≤ Medium- High; 	 'Low' to 'Medium' 	• 80
•	Any ONRC Not in a rural town ² Sealed road	No road safety metric used in the assessment	 'Low' to 'High' 	• <80
•	Any ONRC Not in a rural town ² Unsealed road	No road safety metric used in the assessment	 'Low' to 'High' 	• <80
•	ONRC is Class 1 - 2 Rural town ²	 Personal Risk ≤ Low- Medium Collective Risk ≤ Medium-High 	 'Low' or 'Low- Medium' 	• 80

- Road stereotype
- Horizontal alignment
- Lane and shoulder width
- Land use
- Traffic volume
- Roadside hazards
- · Access density; and
- Intersection density

Mega Maps / March 2020

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Streamlined IRR using Existing Datasets





TRANSPORT Safer J	A Safer Journeys Ris	Assessment Tool	Engagement & Speed Management Communities at Risk User and Consultation Resources Register Interpretation Guide
List		Find address or place	
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Crashes (2013 - 2017)	Operational layers	₹	
SH RS/RP Labels and Le		0	
Speed Management Fr	 Crashes (2013 - 2017) 	··· ···	
Posted Speed Limits	▶ SH RS/RP Labels and Length Markers		
		" L J Straty JX	
ONRC	🚽 🗹 Speed Management Framework 2018		A THE ALE A BARANT I
Road Safety Metric		A A TRACK	
Infrastructure Risk Rat	Posted Speed Limits	Vetter	Infrastructure Risk Rating: Riccarton Avenue
Safe and Appropriate		A REFERENCE AND A REFERENCE	Land Use Controlled Access
Sate and Appropriate	I ONRC	······································	Road Stereotype Multi lane undivided
Mean Operating Spe	Road Safety Metric	AN ANTIN ATT	Alignment Straight AADT >12000
High Benefit Speed N		······································	AADT >12000 Intersection Density <1 per km
Better Conversation F	🕨 🔽 Infrastructure Risk Rating		Lane Width 3.0 to 3.5 - Medium
			Shoulder Width >2.0m - Very Wide
High Risk Roads	Safe and Appropriate Speeds	······································	Roadside Hazards High_Moderate
State Highways	Mean Operating Speed	Ling and have the	Access Density 1 to <2 per km
TLA, Regional and Polic	▶ Mean Operating Speed		IRR Score 1.47
· · · · · · · · · · · · · · · · · · ·	High Benefit Speed Management		IRR Band Low
Stata NZ Urban/Rural 8-			Corridor ID Riccarton_9160
Speed Cameras	Better Conversation Research Results		Zoom to
Schools		K WING AND	A A A A A A A A A A A A A A A A A A A
	▶ 🔄 High Risk Roads		
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	▶ State highways		AF LACENTAR LAND
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		••••••••••••••••••••••••••••••••••••	Land Information New Zealand, Eagle Technology

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Implementing speed management treatments on the highest raking 10% of roads (~10,000 km) is expected to prevent more than 245 people from being killed or seriously injured <u>annually</u>

"Mega Maps was already an excellent tool for quickly visualising our network hierarchy and high-level network assessment data... Mega Maps gives Council the ability to review and communicate the details of complex data analysis and Safe and Appropriate Speed outputs instantly. Recommendations then being taken forward into the Speed Limit Reviews can be seen at an individual road, township or District level with a few clicks." (Andy Bartlett, Asset Engineer, Central Otago District Council)



Road safety innovation:

- development of new and innovative risk assessment technique, resulting in the assessment of over 95,000 km of public road
- first one-stop platform to provide RCAs access to key road risk layers
- transforms and standardises the speed limit consultation and engagement process
- led to the adoption of IRR as an Australasian benchmark for road risk assessment for speed management

