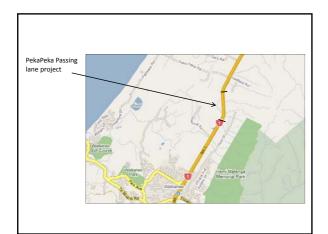




## DO 'SAFE-HIT' POST MEDIANS HAVE A PLACE IN NEW ZEALAND'S SAFE ROADS SYSTEM?

Hamish Mackie (TERNZ) Fabian Marsh (ex NZTA) Mike Pilgrim (NZTA)



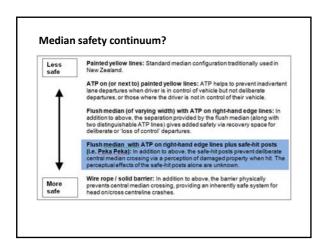


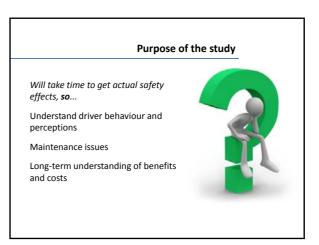
## Rationale for 'safe hit' post median treatment

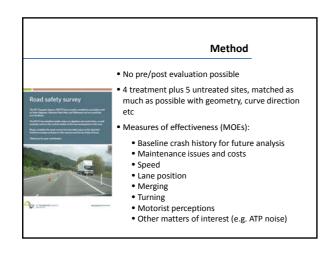
Hopefully an improved level of safety compared with double yellow audio tactile lines

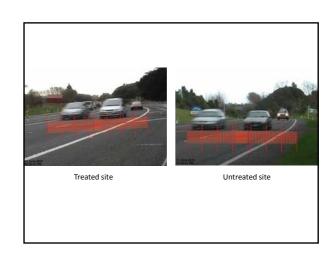
Cheaper road safety option that might be installed in advance of wire or solid barriers



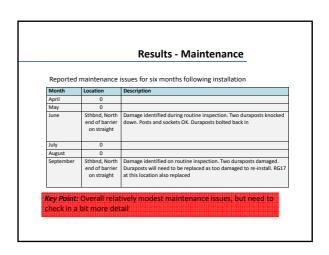








				Ne	Suits	- Crashes			
Crash Date	Crash ID	Dist from side road	Nth/S th	Side Road	Mvmt Code	Mvmt description	F	s	м
2000	2010056	750	N	Greenhill Rd	СВ	loss cntrl left strght	1	3	0
2000	2012763	400	s	Peka Peka Rd	DB	loss cntrl left curve	0	0	1
2001	2110011	300	N	Greenhill Rd	BA	Head on straight	1	2	1
2002	2211278	900	S	Peka Peka Rd	PA	Pedestrian	0	1	0
2004	2412023	2000	N	Hemi St	JA	Veh turning	0	1	0
2004	2412981	1500	s	Peka Peka Rd	СВ	loss cntrl left strght	0	0	1
2005	2512116	1100	N	Greenhill Rd	BF	loss cntrl on curve	0	0	1
2005	2512936	1360	S	Peka Peka Rd	DA	loss cntrl turn rght	0	0	1
2007	2711090	1500	s	Peka Peka Rd	AA	pull out to rght	0	1	2
2007	2711708	1170	s	Peka Peka Rd	CA	strght out of cntrl	0	0	1
2007	2712703	300	N	Greenhill Rd	FD	Queue	0	0	1
2007	2712827	2000	S	Peka Peka Rd	СВ	loss cntrl left strght	0	1	3
2008	2812201	820	N	Greenhill Rd	cc	loss cntrl rght strght	0	0	1
2008	2812552	1380	S	Peka Peka Rd	DB	loss cntrl left curve	0	0	1
2008	2812915	3000	N	Ngaio Rd	FD	Queue	0	0	1
2008	2813598	450	N	Greenhill Rd	QF	Fell inside veh	0	0	1
2008	2813889	1280	S	Peka Peka Rd	СВ	loss cntrl left strght	0	0	1
2009	2913339	400	N	Greenhill Rd	СВ	loss cntrl left strght	0	0	1



## **Results - Speed**

Summary of speed measurements for different conditions

Lane type	treatment	Mean Speed (km/hr)	85% Speed (km/hr)
Class and single lanes	Treated	94	101
Slow and single lanes	Untreated	95	102
Fast lanes	Treated	103	110
rastiaries	Untreated	105	112

**Note** all differences between treated and untreated sites statistically significant (unpaired t-test, p<0.01)

Key Point: Definitely no higher speed at treated site, possibly slightly lower. Need to consider other route factors at each location though

## Results - Lane position

Summary of lane position at treated vs untreated sites

Lane type	Treatment	Count	Dist to Centreline /RH edge line (m)
Chrainht ainele lanna	Treated	359	1.11
Straight single lanes	Untreated	371	0.84
Straight Fast lanes	Treated	66	0.78
(no passing only)	Untreated	81	0.72

**Note** all differences between treated and untreated sites statistically significant (unpaired t-test, p<0.01)

**Key Point:** Vehicles travelled further from RH line at treated sites. Lane departures rare at all sites possibly due to ATP

