

Auckland Transport Road Safety Perceptions Survey Research Report







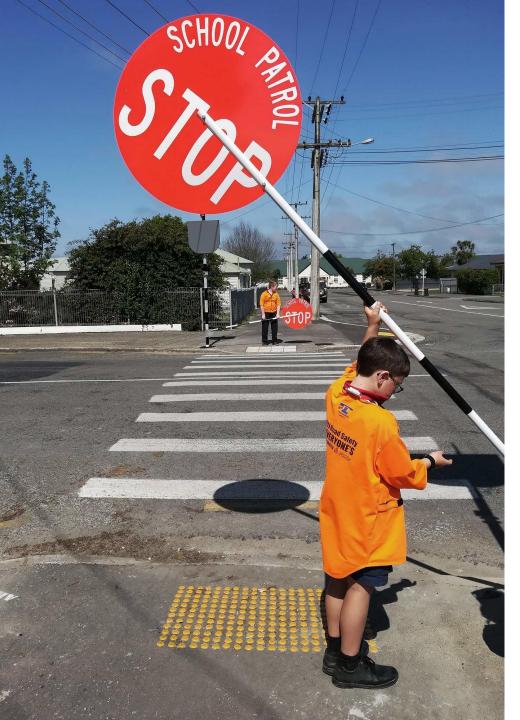
2020

Background

In September 2019, Auckland Transport introduced speed-calming measures to selected residential areas in the Rosehill, Papakura and Te Atatu South residential areas. Measures included the addition of speed bumps, speed tables and signage in an attempt to reduce the speed of vehicles on the road and make the streets a safer place for walking, cycling, children, the elderly and the differently abled.

Gravitas Research were commissioned by Auckland Transport to conduct research with residents in these areas to help understand awareness of the measures that have been put in place, the impact that the measures have had, as well as the public perceptions and potential changes to travel mode used.





Research objectives

To understand...



Awareness of speed calming measures



Impact of speed calming measures on:

Safety overall

near schools

in the area (excl. schools)

Pedestrian friendliness

Cyclist friendliness

Drivers driving below the speed limit

Active mode use



Current travel mode used to and from:

School

Work

Local shops



Demographic information



Methodology



Mail-drop survey

All properties (residents) in both the Papakura and Te Atatu South areas were posted a letter outlining the research and the measures that have been undertaken in the area. This provided all those living the both areas the opportunity to take part.

The letter included a paper copy of the questionnaire (with return postage included) as well as instructions on how to undertake the survey online (if they prefer). An online version of the survey was also available.

The survey questions are appended.



Response

n=254 surveys were completed n=109 Papakura n=145 Te Atatu South 13% response rate was achieved*



Implications of Covid-19

During the surveying period, the outbreak of Covid-19 and subsequent self-isolation of the population imposed at midnight on Wednesday 25th March will have led to reduced movement of the public and likely will have resulted in changes in the use of both speed calming areas in terms of mode usage, travel frequency, traffic density and possibly driver behaviour. However it is unlikely that Covid-19 would have increased/decreased safety perceptions that were not already there.

*Note: This is also likely to have had some impact on the response rate.











- Overall 97% were aware that speed calming measures were introduced in their area.
- More than four out of five respondents (82%) felt that the speed humps and tables have made the area safer overall, including 50% saying it is <u>much safer</u> than before. The net increase in positive safety ratings was +76%.
- Respondents gave significantly higher safety ratings across all five individual aspects of road safety following the introduction of the speed calming measures. Including significantly higher ratings for:



Safety around schools - up from 26%, to 74%



Safety around the area (ex. schools) - up from 26%, to 76%



Pedestrian friendliness - up from 29%, to 66%



Cyclist friendliness – up from 30%, to 54%



People driving under the speed limit – up from 18%, to 60%





- Overall, the speed calming measures have had the biggest impact on how often people are walking in their local area, with a net increase of +37%. Cycling has seen a net increase of +12%, while overall scootering levels have seen a slight increase (+2%).
- Overall, 44% of respondents state they are now participating in at least one active mode activity more often now that they measures have been installed. Note: walking and cycling mode share may be higher in part because the survey was undertaken during lockdown when most people had increased walking and cycling.
- Private vehicles are the most common travel mode used to travel to/from both work and local shops. Around one in six respondents travelling to/from local shops say an active mode is their main method of transport.
- Mode use is more mixed for school trips, with around 45% of those making this type of trip saying they mainly make it by private vehicle, two out of five mainly use an active mode and just over one in ten use public transport.
- Active mode levels are higher across all trip types when looking at <u>all</u> modes used (rather than just the main mode) indicating that frequency of active mode use could increase further over time (particularly during summer months).

 Gravitas





Are aware of the speed calming measures introduced



Felt the measures resulted in a net increase in road safety

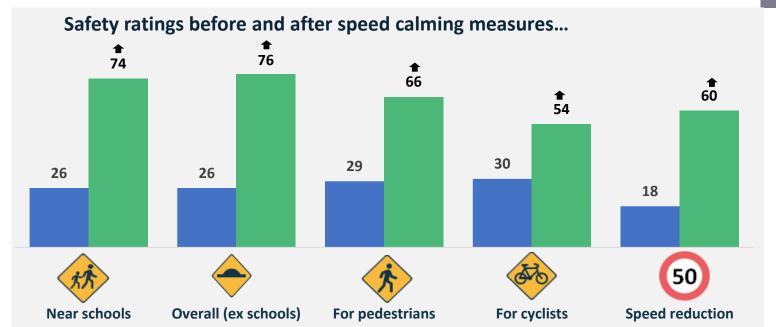
82% increase 6% decrease

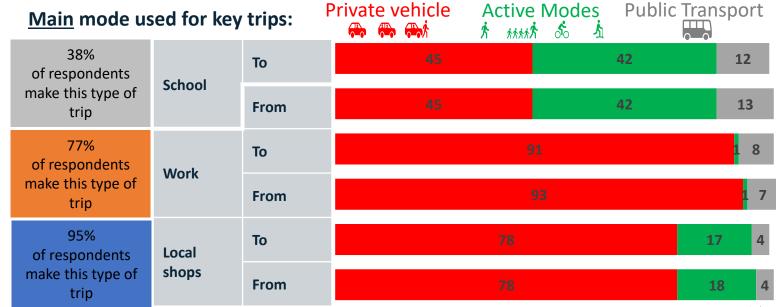


Now use <u>at least one</u> active mode more.

Net increase by individual mode:

- +37% walk
- **+12%** cycle
- +2% scooter













Te Atatu South - Summary

Overall 98% were aware that speed calming measures were introduced in their area.

More than three quarters of respondents (77%) felt that the speed humps and tables have made the area safer overall, including 42% saying it is <u>much safer</u> than before. The net increase in positive safety ratings was +68%.

Respondents gave significantly higher safety ratings across all five individual aspects of road safety following the introduction of the speed calming measures. Including significantly higher ratings for:



Safety around schools - up from 23%, to 76%



Safety around the area (ex. schools) - up from 25%, to 68%



Pedestrian friendliness - up from 39%, to 64%



Cyclist friendliness – up from 25%, to 52%



People driving under the speed limit – up from 17%, to 51%





Te Atatu South - Summary

- Overall, the speed calming measures have had the biggest impact on how often people are walking in their local area, with a net increase of +26%. Cycling has seen a net increase of +6%, while scootering levels are unchanged.
- Overall, 31% of respondents state they are now participating in at least one active mode activity more often now that they measures have been installed. Note: walking and cycling mode share may be higher in part because the survey was undertaken during lockdown when most people had increased walking and cycling.
- Private vehicles are the most common travel mode used to travel to/from both work and local shops. Around one in six respondents travelling to/from local shops say an active mode is their main method of transport, while one in ten use PT to travel to/from work most often.
- Mode use is more mixed for school trips, with just over half of those making this type of trip saying they mainly make it by private vehicle, a third mainly use an active mode and one in ten use public transport.
- Active mode levels are higher across all trip types when looking at <u>all modes</u> used (rather than just the main mode) indicating that frequency of active mode use could increase further over time (particularly during summer months).

In Te Atatu South...



Are aware of the speed calming measures introduced



Felt the measures resulted in a net increase in road safety

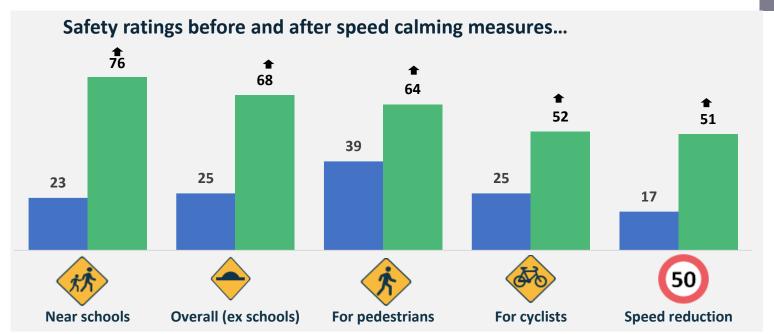
77% increase 9% decrease



Now use <u>at least one</u> active mode more.

Net increase by individual mode:

- +26% walk
- +6% cycle
- scooter







Behaviour changes due to speed calming measures





Behaviour changes due to speed calming measures

Overall Awareness

Overall 98% were aware that speed calming measures were introduced in their area.

Awareness was similar in both Te Atatu South (98%) and Papakura (97%).

Impact on Safety Overall

Four out of five respondents (79%) felt that the speed humps and tables have made the area safer overall, including 56% saying it is <u>much safer</u> than before.

The share stating the roads are now safer overall is high across both areas, but is slightly higher in Papakura (82%, including 50% much safer) than in Te Atatu (77%, including 42% much safer).

Impact on Individual Aspects

Respondents gave significantly higher safety ratings across all five individual aspects of road safety following the introduction of the speed calming measures in both areas. Including significantly higher ratings for:



Safety around schools



Safety around the area (excluding schools)



Pedestrian friendliness



Cyclist friendliness





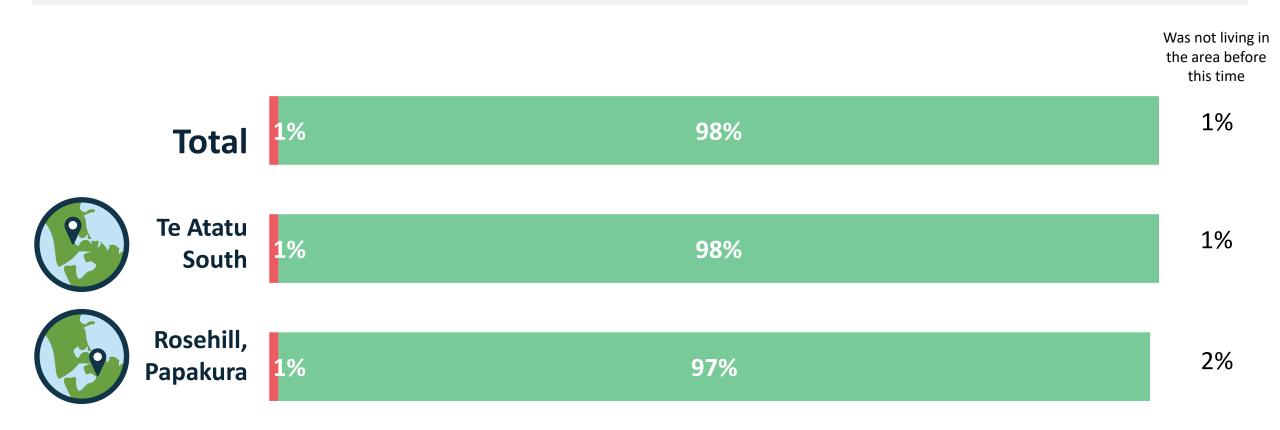
People driving under the speed limit

gravitas

Awareness of speed calming measures

Overall 98% were aware that speed calming measures were introduced in their area.

Awareness was similar in both Te Atatu South (98%) and Papakura (97%).



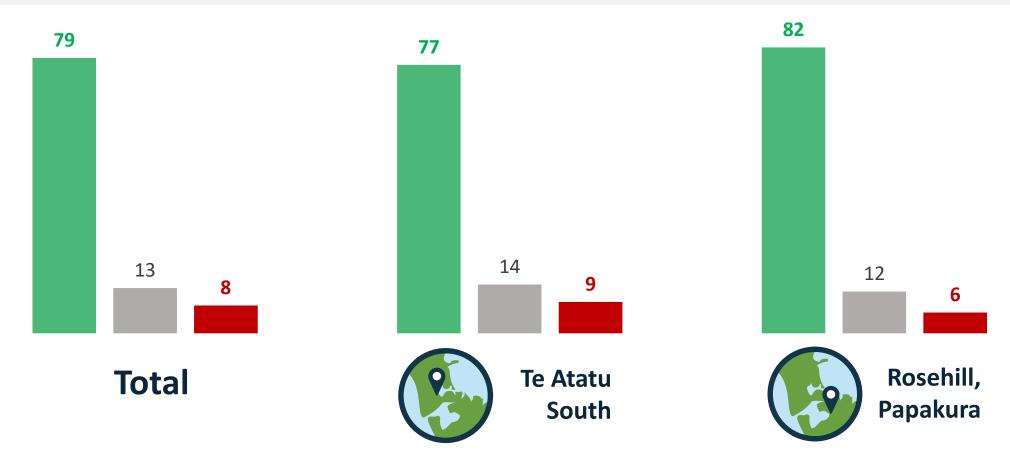


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Safety as a result of speed calming measures

Overall 79% of respondents felt that the speed humps and tables have made the area safer overall, including 56% saying it is much safer than before. (Note see next slide for how results are split across the full scale)

The share stating the roads are now safer overall is high across both areas, but is slightly higher in Papakura (82%, including 50% much safer) than in Te Atatu (77%, including 42% much safer).

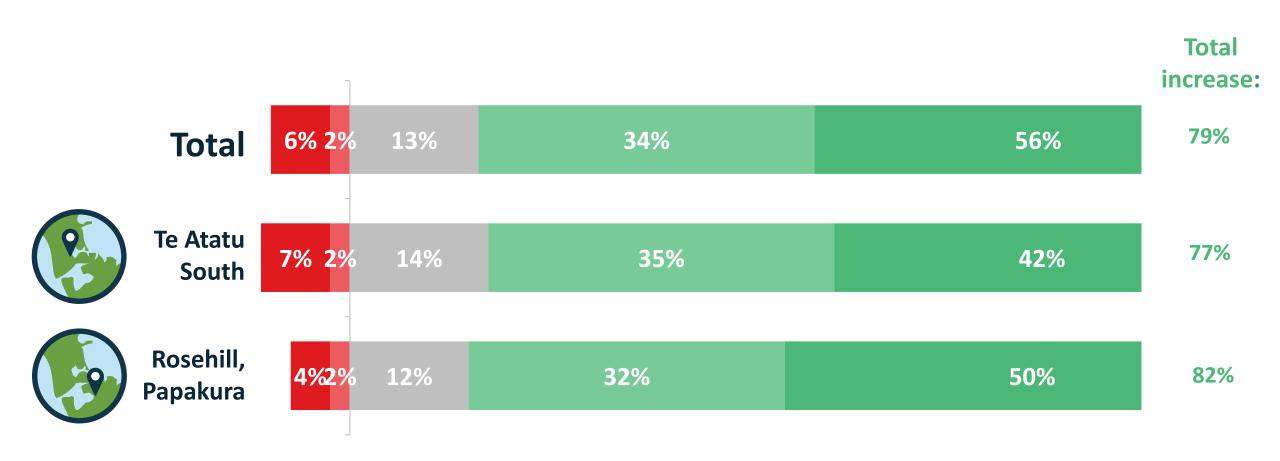






Safety as a result of speed calming measures'

The graph below shows how the results from the previous slide split out across the full scale.



Changes due to speed calming measures

Respondents were asked to rate a number of aspects of road and traffic safety in their area both before the speed humps and speed tables were installed in September 2019 and since they have been installed.

As the following slides show, respondents gave <u>significantly higher safety ratings</u> across **all five individual aspects** of road safety following the introduction of the speed calming measures in both areas.

This includes significantly higher ratings for:



Safety around schools



Safety around the area (excluding schools)



Pedestrian friendliness



Cyclist friendliness



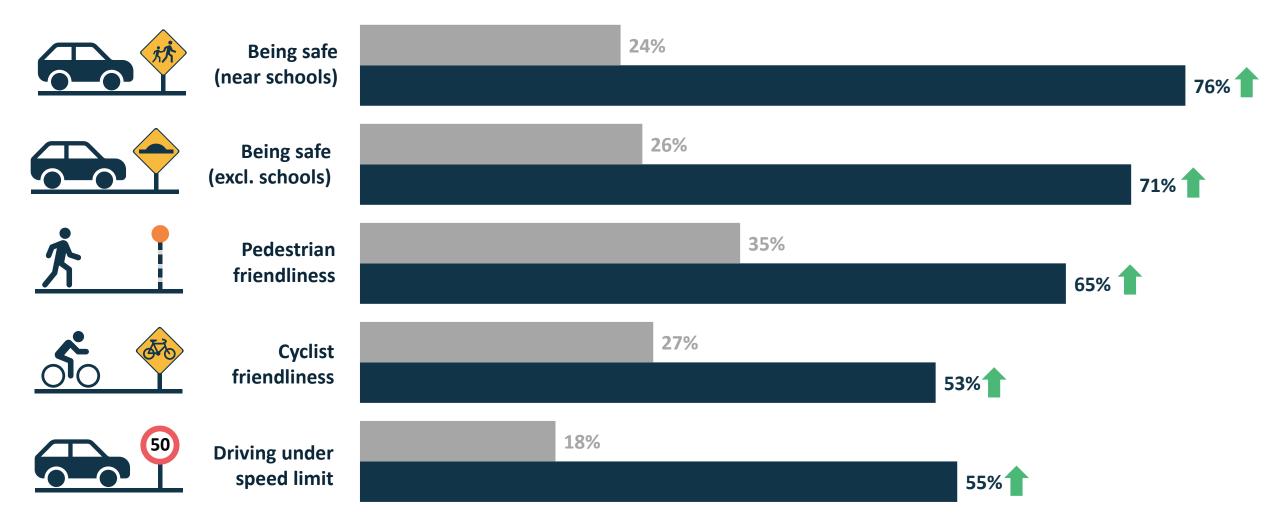
People driving under the speed limit



Changes due to speed calming measures - Total

Showing <u>ratings of 4 and 5</u> (where 5 is excellent) before and after the introduction of speed calming measures.

How would you rate the roads in your area for...





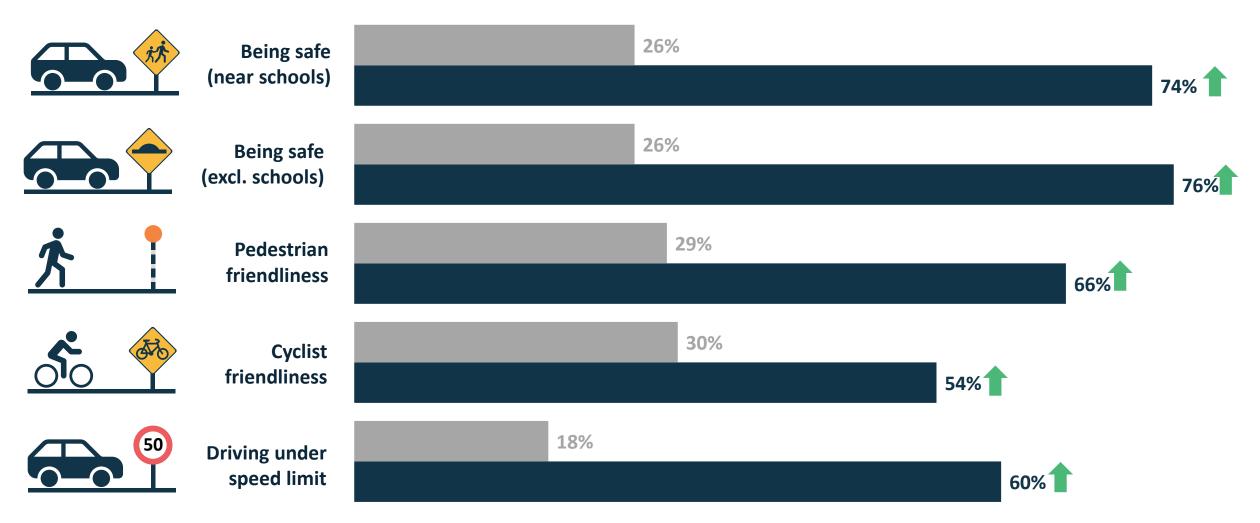


1 Indicates a statistically significant increase in results

Changes due to speed calming measures - Papakura

Showing <u>ratings of 4 and 5</u> (where 5 is excellent) before and after the introduction of speed calming measures.

How would you rate the roads in your area for...





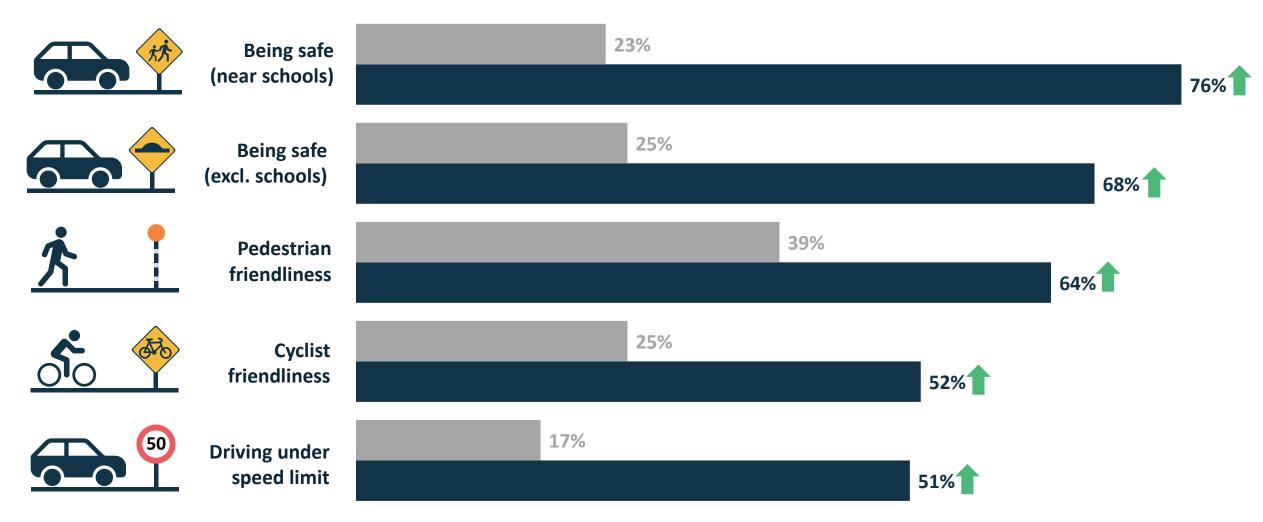


Indicates a statistically significant increase in results

Changes due to speed calming measures – Te Atatu

Showing <u>ratings of 4 and 5</u> (where 5 is excellent) before and after the introduction of speed calming measures.

How would you rate the roads in your area for...



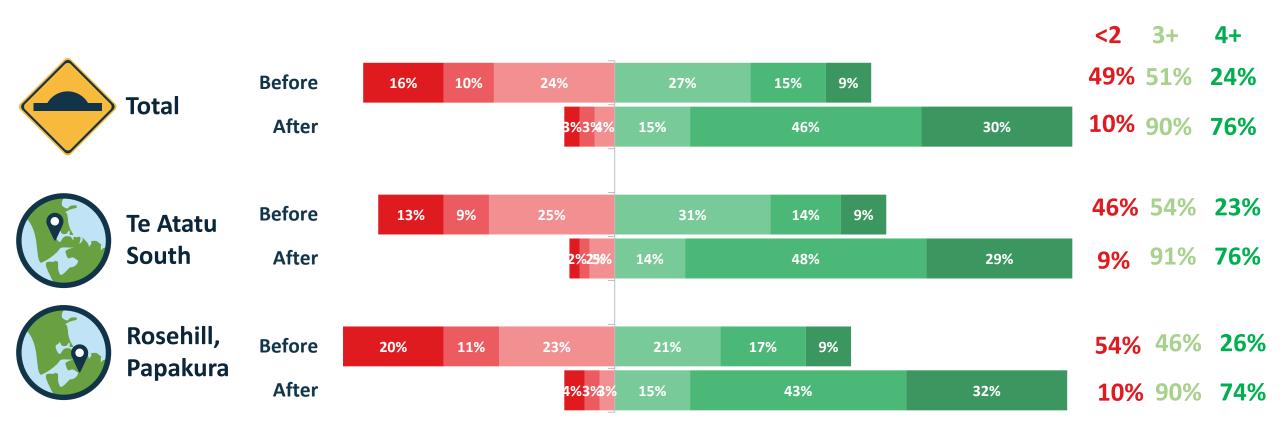




1 Indicates a statistically significant increase in results



Road safety near schools



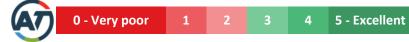






Road safety in the area (excluding schools)

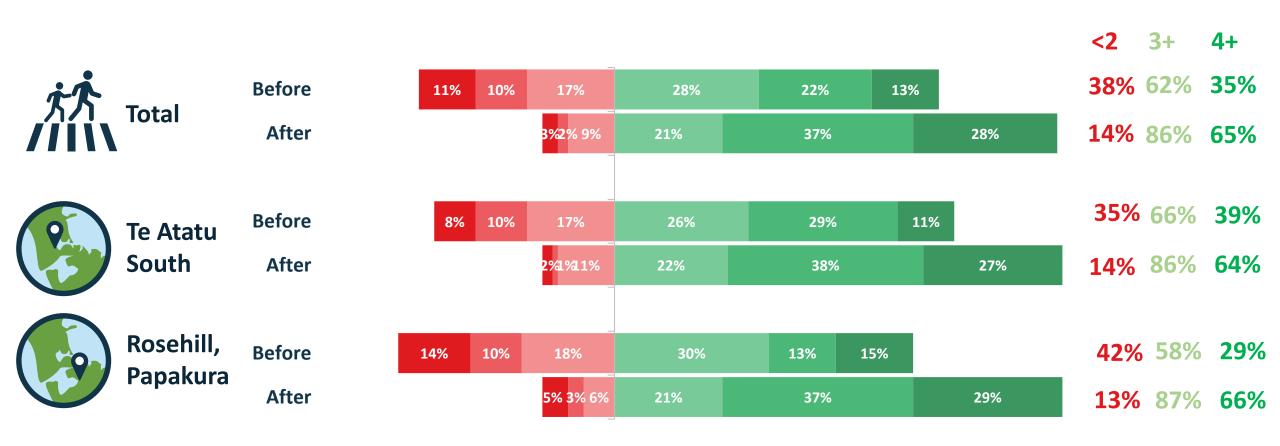








Safety for pedestrians



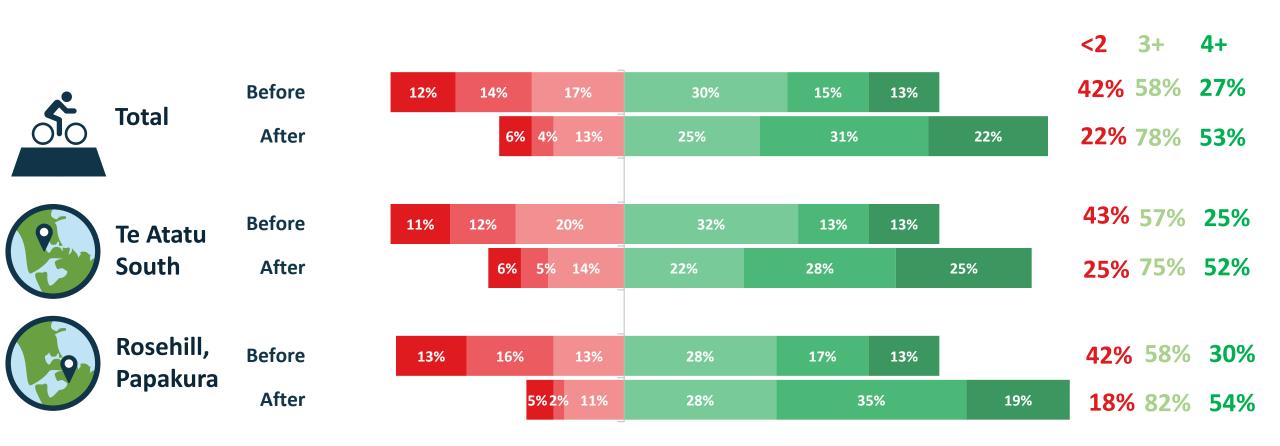




5 - Excellent



Safety for cyclists

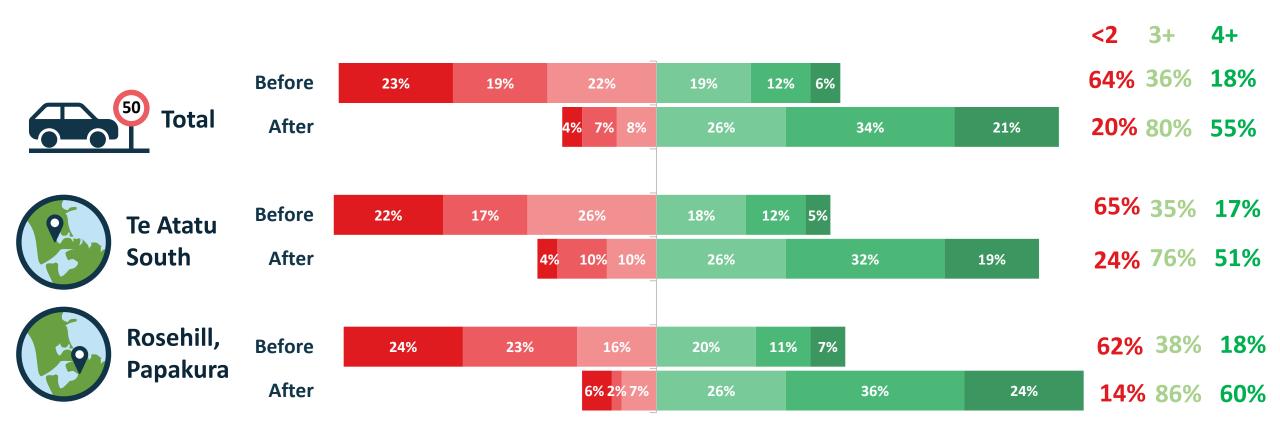








Driving Below the Speed Limit





Travel mode(s) used

Speed calming measures impact on travel in local area

- Overall, the speed calming measures have had the biggest impact on how often people are walking in their local area, with a third of respondents saying they are walking slightly (23%) or much (11%) more than they did before. While there have been a few people who are now walking less (4%), the result is a net increase of 30%.
- Cycling has seen a net increase of 9% (14% of respondents cycling more, 5% cycling less), while overall scootering levels have remained unchanged.
- The increase in respondents walking in their local area slightly or much more due to the speed calming measures is high in both locations, with a net change of 26% in Te Atatu and 37% in Papakura (a slightly, but not significantly higher result).
- The increase in respondents cycling in their local area slightly or much more due to the speed calming measures is higher in Papakura (net increase of 12%) than in Te Atatu (6%), while the Papakura area has seen a slight increase in scootering overall (net increase of 2%), while scootering levels in Te Atatu overall are unchanged.
- Overall, 37% of respondents said they are now taking part in at least one active mode more often. Rates are slightly higher in Papakura (44%) than in Te Atatu (31%).

Note: walking and cycling mode share may be higher in part because the survey was undertaken during lockdown when most people had increased walking and cycling while vehicle wasn't being used.

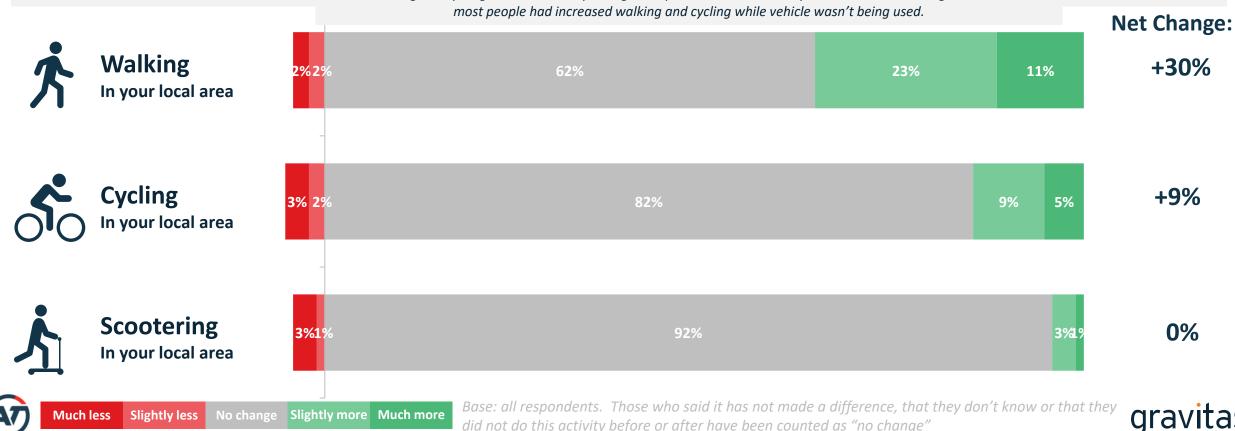
Change in active mode use due to new measures - Total

Respondents were asked if the speed calming measures have changed how they travel within their local area, and specifically if the introduction of the measures have impacted how they use three active modes - walking, cycling and scootering.

Overall, the speed calming measures have had the biggest impact on how often people are <u>walking</u> in their local area, with a third of respondents saying they are walking slightly (23%) or much (11%) more than they did before. While there have been a few people who are now walking less (4%), the result is a net increase of 30%.

Cycling has seen a net increase of 9% (14% of respondents cycling more, 5% cycling less), while overall scootering levels have remained unchanged.

Note: walking and cycling mode share may be higher in part because the survey was undertaken during lockdown when

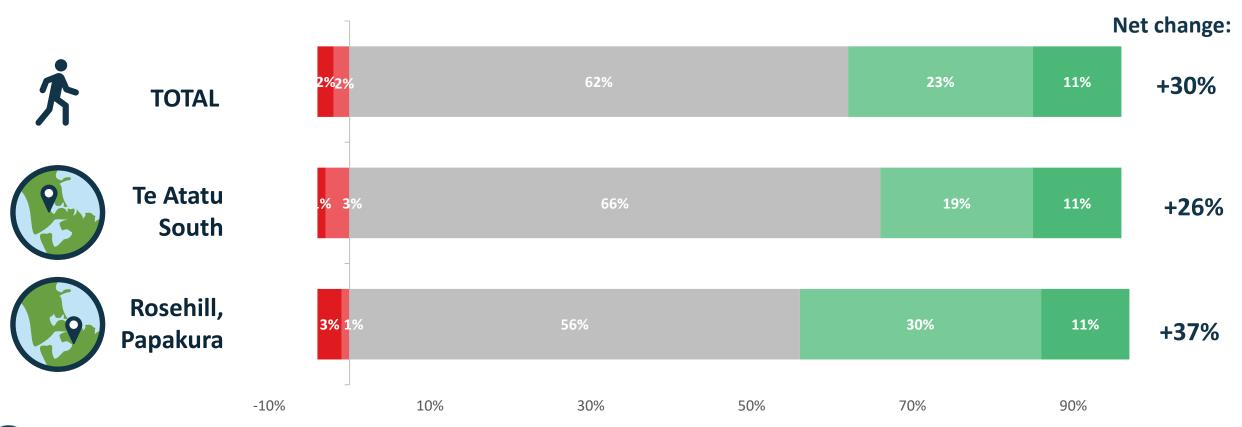




Walking In your local area

due to speed calming measures

The increase in respondents walking in their local area *slightly* or *much* more due to the speed calming measures is high in both locations, with a net change of 26% in Te Atatu and 37% in Papakura (a slightly, but not significantly higher result).





Change in



Cycling In your local area

due to speed calming measures

The increase in respondents cycling in their local area *slightly* or *much* more due to the speed calming measures is higher in Papakura (net increase of 12%) than in Te Atatu (6%), however the difference is not statistically significant.







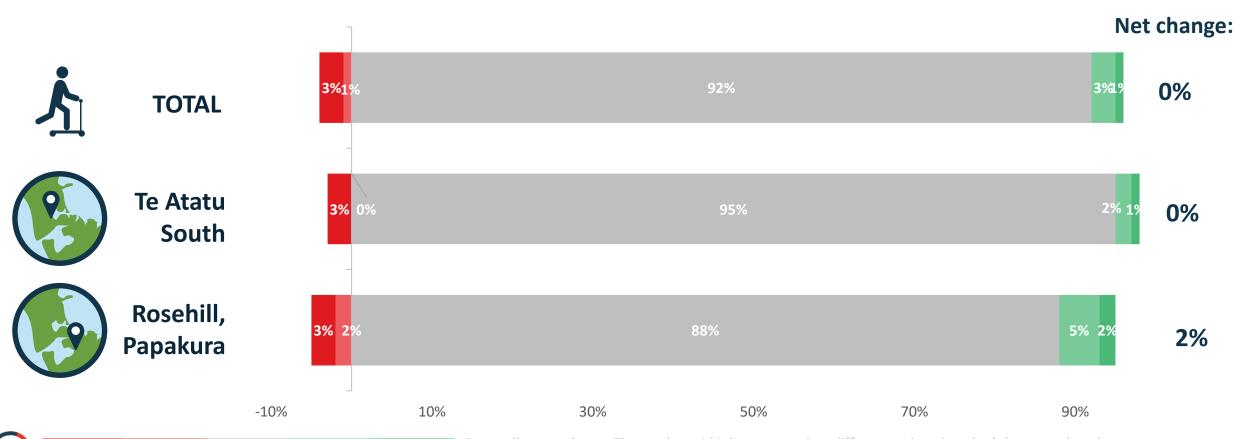
Change in



Scootering
In your local area

due to speed calming measures

The Papakura area has seen a slight increase in scootering overall (net increase of 2%), while scootering levels in Te Atatu overall are similar (with 3% stating they are scootering more, and 3% less).





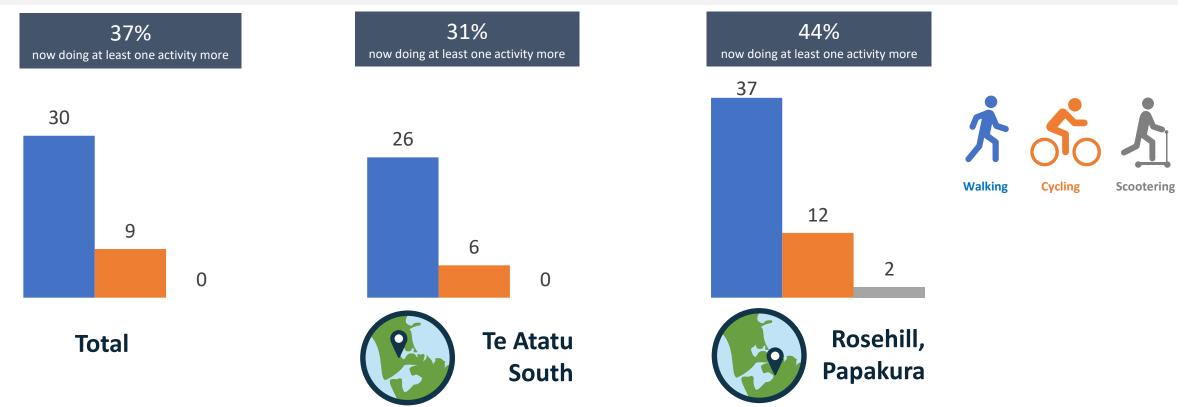


Net Change in active mode use due to speed calming measures

Overall, the speed calming measures have had the biggest impact on how often people are <u>walking</u> in their local area, with a net increase of +30% overall and slightly (but not significantly) higher net ratings in Papakura (+37%) and in Te Atatu (+26%).

Cycling has seen a net increase of +9% overall (+12% in Papakura ad +6% in Te Atatu), while overall scootering levels have remained unchanged but have seen a slight increase in Papakura (+2%).

Overall, 37% of respondents said they are now taking part in at least one active mode more often. Rates are slightly higher in Papakura (44%) than in Te Atatu (31%).



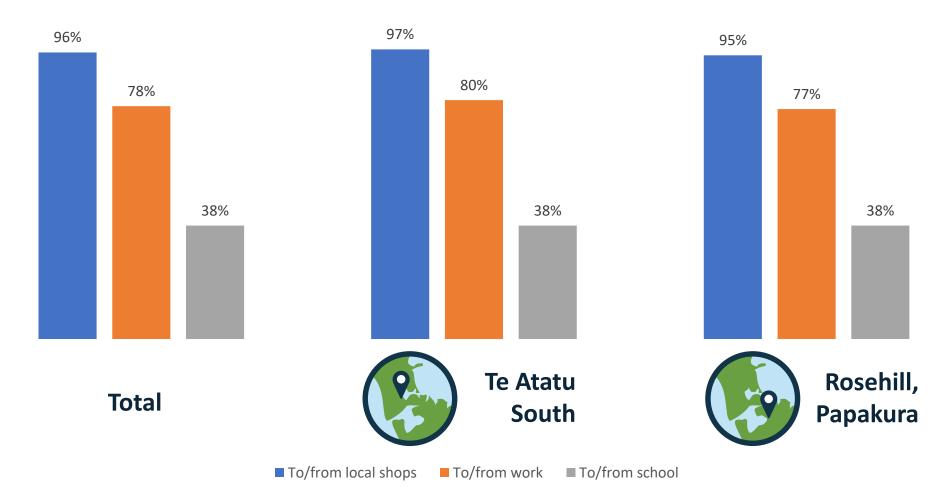




Types of Trips Made

When asked what type of trips the household makes generally, 96% of respondents say they travel to/from local shops. Around four in five (78%) travel to/from places of work, while 38% make trips to/from school(s).

The shares making each type of trip are similar for both Te Atatu and Papakura respondents.





Mode Used by Types of Trips Made

The following slides show the share of respondents making each type of trip by each mode of transport. Slides show all modes used by participants as well as the main mode used. Main mode used has also been grouped to show the share mainly using public transport, private vehicle and active modes.

This analysis has been undertaken across all respondents as well as for the two locations separately.



All travel modes used (after speed calming measures)

TOTAL			Bus or Train	Car (driver)	Car (passenger)	Car (then walk)	Walk	Walking School bus	Cycle	Scooter	Motorcycle
							广	济於於於	50	立	\$
38% of respondents make this type of trip	School	То	16%	56%	30%	22%	48%	4%	10%	0%	0%
		From	16%	52%	30%	22%	52%	5%	8%	0%	0%
78% of respondents make this type of trip	Work	То	15%	82%	12%	17%	3%	-	6%	1%	1%
		From	15%	82%	12%	17%	3%	-	6%	1%	1%
96% of respondents make this type of trip	Local shops	То	5%	76%	30%	23%	45%	-	7%	1%	0%
		From	5%	77%	30%	23%	45%	-	6%	1%	0%



MAIN travel mode used (after speed calming measures)

TOTAL			Bus or Train	Car (driver)	Car (passenger)	Car (then walk)	Walk	Walking School bus	Cycle	Scooter	Motorcycle
							广	济於於於	50	立	
38% of respondents	School	То	10%	44%	1%	6%	34%	1%	4%	0%	0%
make this type of trip	3011001	From	11%	43%	3%	5%	34%	1%	3%	0%	0%
78% of respondents make this type of trip	Work	То	9%	77%	3%	8%	1%	-	2%	0%	1%
		From	9%	77%	3%	8%	1%	-	2%	0%	1%
96% of respondents make this type of	Local shops	То	3%	64%	3%	14%	16%	-	1%	0%	0%
trip		From	3%	65%	3%	13%	16%	-	1%	0%	0%

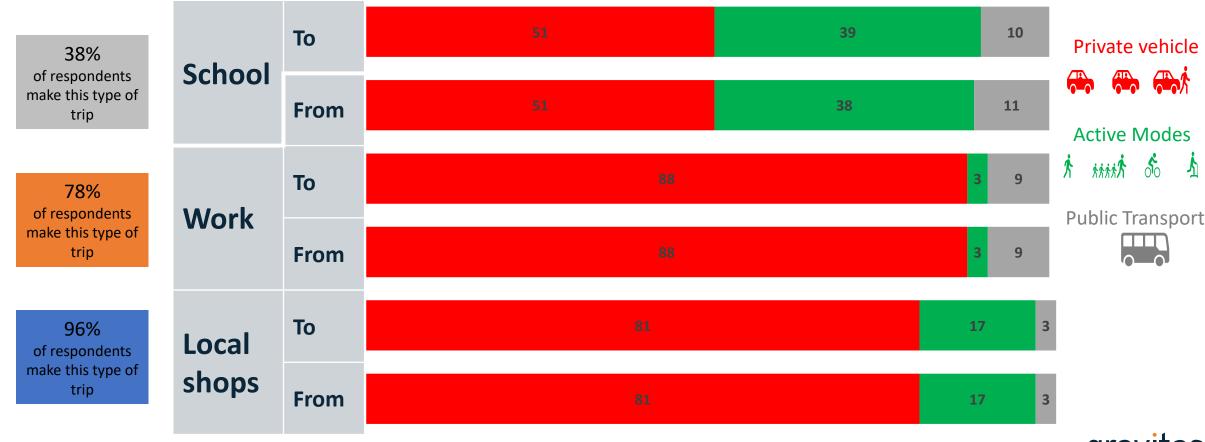


TOTAL

MAIN travel mode used - by mode groupings

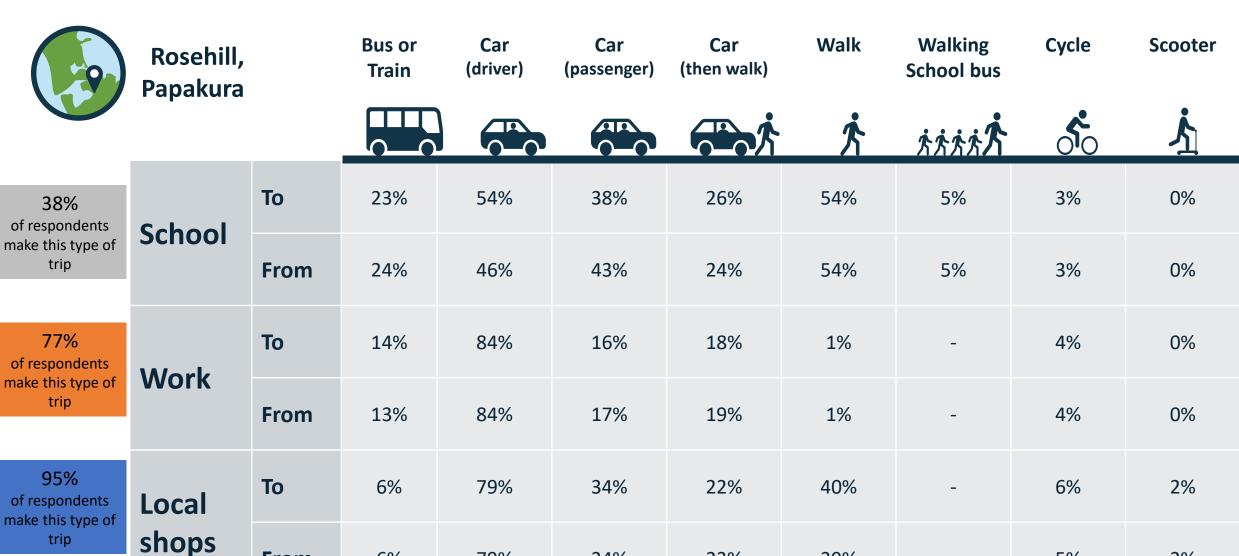
Across both locations, private vehicles are the most common travel mode used to travel to/from both work and local shops. Around one in six respondents travelling to/from local shops say an active mode is their main method of transport, while one in ten use PT to travel to/from work most often.

Mode use is more mixed for school trips, with around half of those making this type of trip saying they mainly make it by private vehicle, two out of five mainly use an active mode and one in ten mostly use public transport.





All travel modes used (after speed calming measures)





From

6%

79%

2%

5%

34%

23%

39%

MAIN travel mode used (after speed calming measures)



Bus or Train

Car (driver) Car (passenger)

Car (then walk) Walk

Walking School bus

Cycle

Scooter

	Papakura		IIaiii	(diliver)	(basseligei)	(then wank)		School bus			
						A	序	<u> </u>	50	Δ	
38% of respondents make this type of trip	School	То	12%	42%	0%	3%	39%	0%	3%	0%	
		From	13%	39%	3%	3%	39%	0%	3%	0%	
77% of respondents make this type of trip	Work	То	8%	78%	4%	0%	0%	-	1%	0%	
		From	7%	77%	6%	10%	0%	-	1%	0%	
95% of respondents make this type of trip	Local shops	То	4%	65%	2%	11%	17%	-	0%	0%	
		From	4%	65%	3%	10%	18%	-	0%	0%	

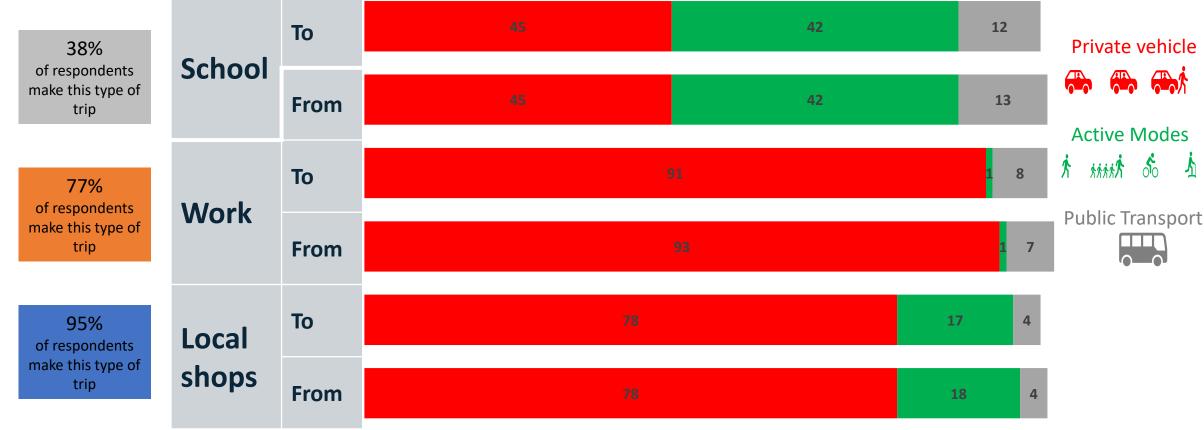




MAIN travel mode used - by mode groupings

For Papakura, private vehicles are the most common travel mode used to travel to/from both work and local shops. Around one in six respondents travelling to/from local shops say an active mode is their main method of transport.

Mode use is more mixed for school trips, with around 45% of those making this type of trip saying they mainly make it by private vehicle, two out of five mainly use an active mode and just over one in ten use public transport on most occasions.





All travel modes used (after speed calming measures)



Te Atatu South

To

From

Bus or Train

Car (driver) Car

Car

Walk

Walking School

Cycle

Motorcycle

0%

38% of respondents make this type of trip

80% of respondents make this type of trip

97% of respondents make this type of trip

12%

(passenger)

23%

(then walk)

19%

20%

16%

44%

51%

5%

49%

bus

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100/	F70/	
10%	57%	

58%

81%

75%

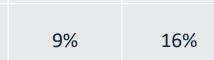
75%

Го	15%	

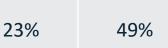
From	15%

То	4%
From	4%

20%

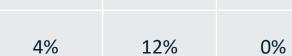


27%	23%



















27%

MAIN travel mode used (after speed calming measures) 42



Te Atatu

Bus or Train

Car (driver)

Car (passenger)

Car (then walk) Walk

Walking **School bus**

Cycle

Motorcycle

	South
38% of respondents make this type of trip	School
80% of respondents make this type of trip	Work
97% of respondents make this type of trip	Local shops

		0_0				片	<u>ጵጵጵጵ</u>	50	
ol	То	9%	45%	2%	9%	30%	2%	4%	0%
OI	From	9%	47%	2%	7%	31%	2%	2%	0%
	То	9%	76%	2%	8%	1%	-	3%	1%
	From	10%	76%	2%	7%	1%	-	3%	1%
S	То	2%	63%	3%	16%	16%	-	1%	0%
	From	2%	65%	3%	16%	14%	-	1%	0%

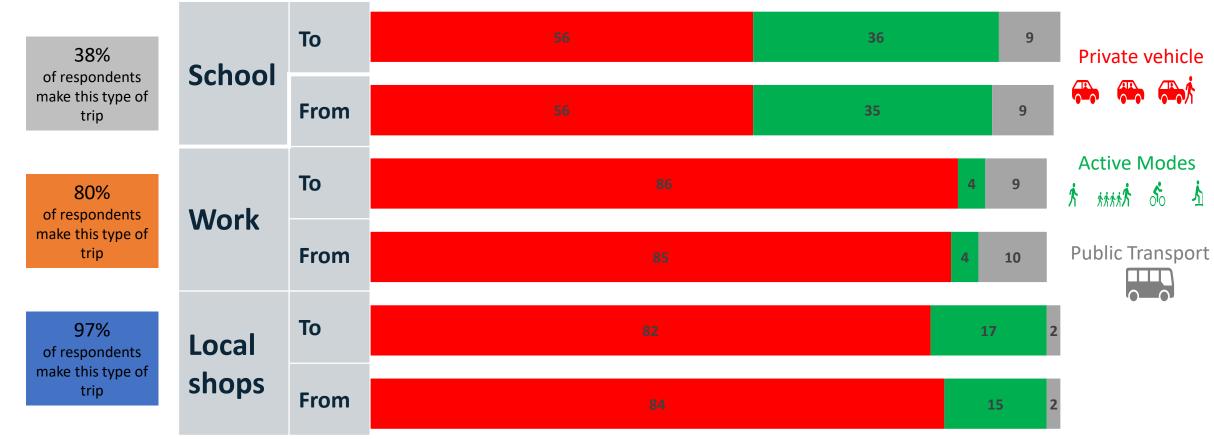




MAIN travel mode used - by mode groupings

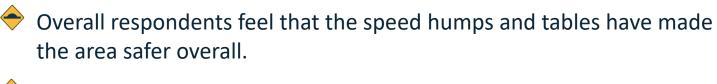
For Te Atatu, private vehicles are also the most common travel mode used to travel to/from both work and local shops. Around one in six respondents travelling to/from local shops say an active mode is their main method of transport, while one in ten use PT to travel to/from work most often.

Mode use is more mixed for school trips, with just over half of those making this type of trip saying they mainly make it by private vehicle, a third mainly use an active mode and one in ten generally use public transport.





Conclusions



Respondents also gave significantly higher safety ratings across all five individual aspects of road safety following the introduction of the speed calming measures. Including significantly higher ratings for:



Safety around schools



Safety around the area (ex. schools)



Pedestrian friendliness



Cyclist friendliness



People driving under the speed limit



- Overall, the speed calming measures have had the biggest impact on how often people are walking in their local area. Impacts on cycling and scootering are at much lower levels
- Overall, 37% of respondents state they are now participating in at least one active mode activity more often now that they measures have been installed. Note: walking and cycling mode share may be higher in part because the survey was undertaken during lockdown when most people had increased walking and cycling.





Appendix 1 - Questionnaire



Appendix 1 - Questionnaire

Road Safety Perception Survey

Auckland Transport is commitment to make streets safer places for walking and cycling, for children, the elderly and the differently abled. As part of this commitment, Auckland Transport has been installing speed calming measures to stop vehicles speeding through residential streets in selected areas.									
We want to hear your views on the speed humps and speed tables that have been installed in your local area.									
By comple	_	vey, you will go in and one of ten \$5			e \$100 Pro	ezzy Cards			
Please answer each question by ticking (\checkmark) in the appropriate box or writing your answer in the space provided.									
installed	•	f the speed calming rea? (These were i			eed tables) t	:hat have been			
installed	l in your local a	rea? (These were i	nstalled in Septe		Was not li	that have been ving in this area eptember 2019			
installed Please se	l in your local a	rea? (These were i	nstalled in Septe	mber 2019)	Was not li	ving in this area			
installed Please se Yes - aw Q2 Overall, your loc	I in your local a	rea? (These were in the speed hum)	nstalled in Septe	mber 2019)	Was not li before Se	ving in this area eptember 2019			
installed Please se Yes - aw Q2 Overall, your loc	I in your local a lect () one opt vare do you think tal area	rea? (These were in the speed hum)	nstalled in Septe	mber 2019)	Was not li before Se	ving in this area eptember 2019			

Q3. Using a scale where 0 is very poor and 5 is excellent, how would you have rated the following **BEFORE** the speed humps and speed tables were installed in September 2019?

Please select (x) one option in each raw.

	Very poor Excellent						Don't	Not
	0	1	2	3	4	5	know	applicable
Roads and traffic being safe around schools in this area?								
Roads and traffic being safe in this area (excluding near schools)?								
Your local area for being <u>pedestrian</u> <u>friendly</u> ? This includes it being safe and easy to cross the street.								
Your local area for <u>being bicycle</u> <u>friendly</u> ? This means being safe and easy to cycle around the area								
Drivers travelling below the speed limit?								

24. And how do you rate the same things NOW that the speed humps & speed tables have been installed?

Please select () one option in each row

	Very poor E					cellent	Don't	Not
	0	1	2	3	4	5	know	applicable
Roads and traffic being safe around schools in this area?								
Roads and traffic being safe in this area (excluding near schools)?								
Your local area for being <u>pedestrian</u> <u>friendly</u> ? This includes it being safe and easy to cross the street.								
Your local area for <u>being bicycle</u> <u>friendly</u> ? This means being safe and easy to cycle around the area								
Drivers travelling below the speed limit?								

Appendix 1 – Questionnaire (Continued)

If you travel <u>often</u> . If you	u and/or members of in different ways at d use more than one m (✓) AS MANY as appl	ifferent tii ode, pleas	mes of the year se select the one	or on differ e used for th	rent days oj ne longest d	f the week, pistance.	please sele	ct all options	that apply,	and then circle th	e <u>one</u> used <u>most</u>
	I/we don't make this type of trip	Walk	Walking School Bus	Car/walk *	Bicycle	Scooter	Bus	Car – as a driver	Car – as a passenger		ther write in
To school (s)											
From School (s)											
To work											
From work											
To local shops											
From local shops											
Q6. We'd like to and speed t	u travel by car then wa know whether you ables have been insi	or mem talled. \	bers of your h	ousehold a	are walking	, cycling or	scooterir	_	und your lo	cal area since th	e speed humps
	Much more often (than before)	-	tly more often an before)		less often before)	Much less often (than before)		Hasn't made a difference		Don't know	Did not do this before or after
Walking in your local area											
Cycling in your local area											
Scootering in											

your local area...

Appendix 1 – Questionnaire (Continued)

Household Demographics				Q11. How many years have y	ou been living in v	our current house?	
Finally, just a few questions	s about you. These are ius	t to make sure we have a goo	d mix of people in the	Please select (✓) one opti		,	
survey.	s about your These are jus	e to make sare we have a 800	a mix or people in the			10 to 15 years	
•	:			Less than 1 year		10 to 15 years	
Q7. Which gender do yo Please select (√) on				1 to 2 years		More than 15 years	
Male	Female	Gender Diverse/non-binary	Prefer not to say	3 to 5 years		Don't know	
I I I	Temale	Gender Diverse/non bindry	Trefer flot to say	6 to 10 years		I prefer not to say	
00 Which are successful.				Q12. Would you like to be en	stored into the cur	vov prizo draw?	
Q8. Which age group do Please select (√) on				•		vey prize draw: Prezzy Cards and one of ten \$50 supern	narket vouchers.
15-24 years		50-59 years		Please select (✓) one of		retty cards and one by tempos supern	rance rodoneror
			_	Yes		No	
25-29 years		60-69 years					
30-39 years		70-74 years				•	
40-49 years		75+ years					
prefer not to say					-	ndertakes other research projects. Wo	_
prefer flot to say				•	future to see if yo	ou are interested in taking part in such	research for Auckland
Q9. Which ethnic group	or groups do you identify	with?		Transport?	ntion		
Please select (✓) AS				Please select (✓) one op	otion	N-	
NZ European/ Pākehā		Tongan		Yes		No	
Māori		Niuean		If you answered yes to either o	if the above (O12	or Q13), please enter your contact deta	ails
Samoan		Chinese				t details separate from you survey an	
Cook Island Māori		Indian		Name			
Other	Please w	rite in:		Address			
				Phone number			
prefer not to say				Email			
	•	ren live in your household?				v 1. 16	
Please write in a nui	mber in each box (write "0	" if this does not apply to you	household)	I nank you for taking pa	irt in the survey	/. Your thoughts and feedback a	re appreciated.
Adults (18 years or older)	Children 0-4 years old	Children 5-12 years old	Children 12-18	Please fold the gues	tionnaire as sh	own on the last nage, tane it clos	ed and nost

(no stamp is needed).