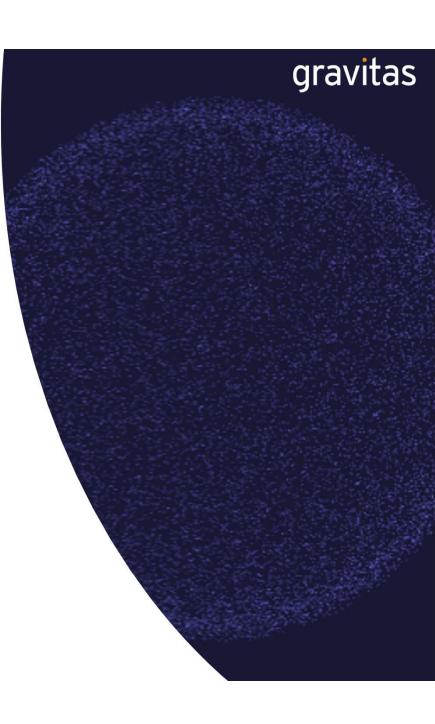
Research Presentation

7 June 2018

Student Travel Survey 2018









- > How and when students travel to and from university campuses, monitoring change
- > How easy students think it is to use PT, to walk or cycle to campus, and to park
- > Awareness, uptake and ease of applying for tertiary student discounts on Public Transport
- > Awareness and use of carpooling apps or websites
- > Extent to which students move accommodation for cost or transport related reasons

gravitas

Methodology

An intercept survey (with online option):

 Short interviews (10mins) were conducted face-to-face with students randomly approached at eleven campuses, invitations to online given if no time at intercept.

Survey dates:

• 12th March 2018 to the 20th April 2018, with shifts scheduled each day of the week from 8am–6pm.

****** In total n=2,157 respondents completed the survey including:

- AUT City (214)
- **AUT South** (158)
- AUT Akoranga (213)
- University of Auckland City (232)
- University of Auckland Newmarket (143)
- University of Auckland Grafton (236)

- Massey Albany (227)
- MIT Mankuau (190)
- MIT Ōtara (208)
- MAINZ (105)
- Unitec Mt Albert (231)

Note:

Unweighted data – so totals don't reflect total student volumes

PTE's not included







Travel Modes

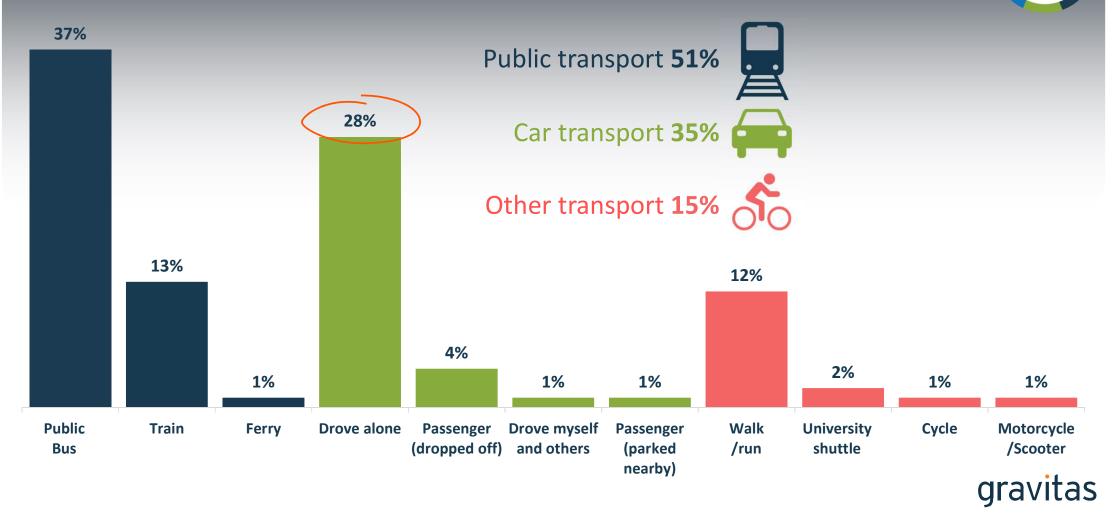




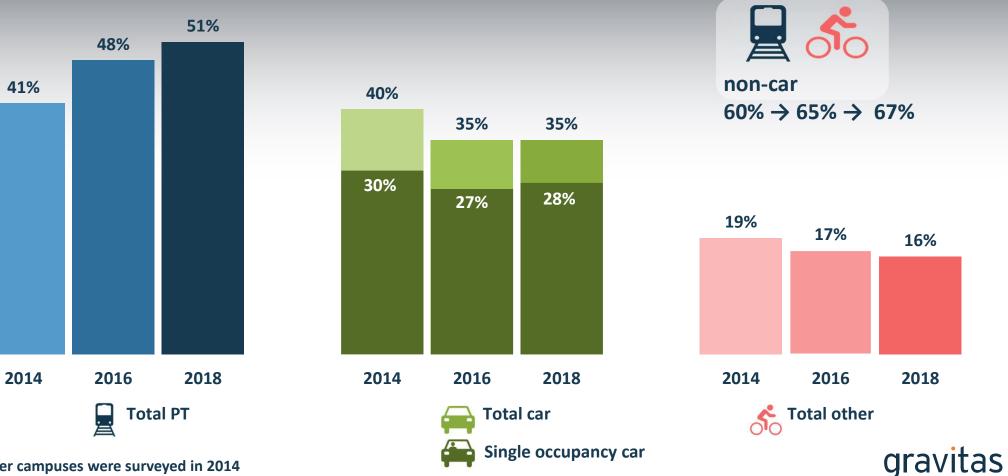




Total 'main' travel modes used - 2018



Main mode share – over time



Note: fewer campuses were surveyed in 2014

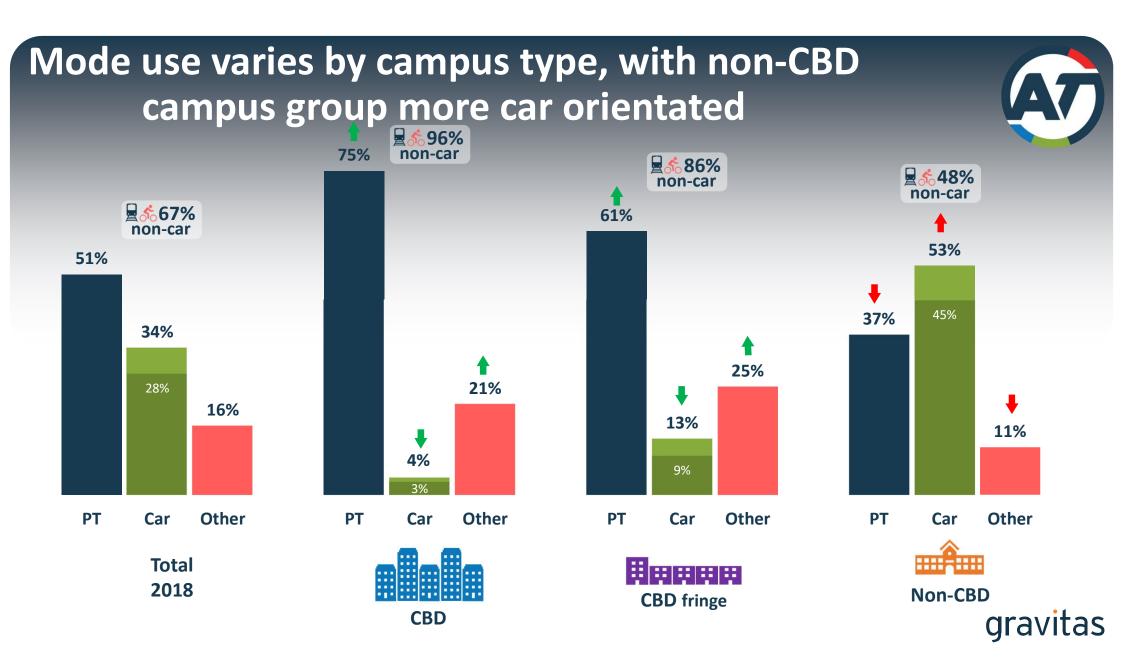
Campus groups



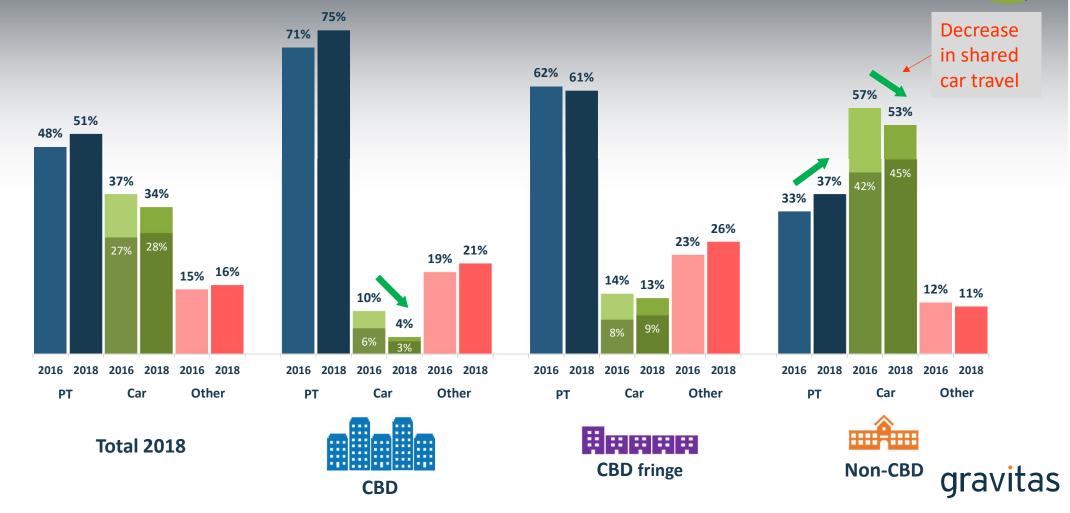
Three campus categories, based on location:

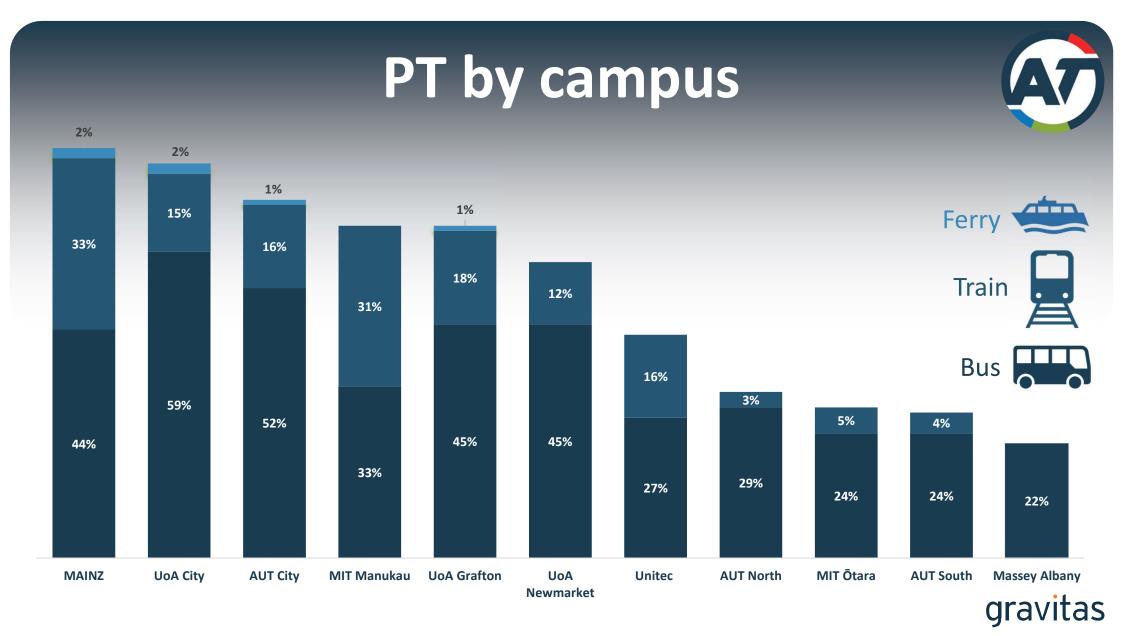
CBD campuses	CBD fringe campuses	Non-CBD campuses
University of Auckland – City AUT – City MAINZ	University of Auckland – Grafton University of Auckland - Newmarket	AUT - Akoranga AUT - South Massey - Albany
		Unitec - Mt Albert MIT - Manukau MIT - Ōtara



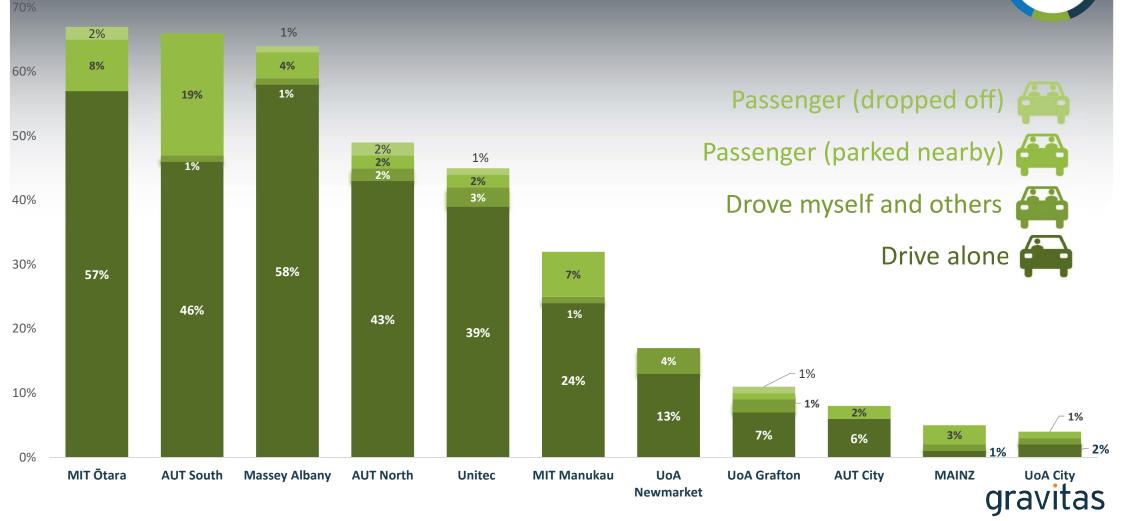


Reduction in total car based travel evident across all campus types, SOC up a little in non-CBD



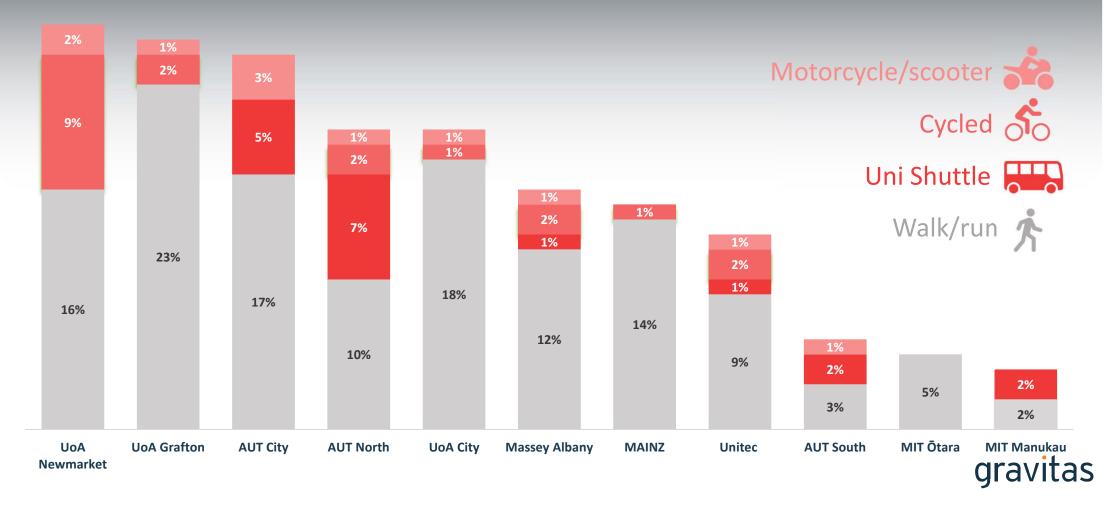


Car transport by campus

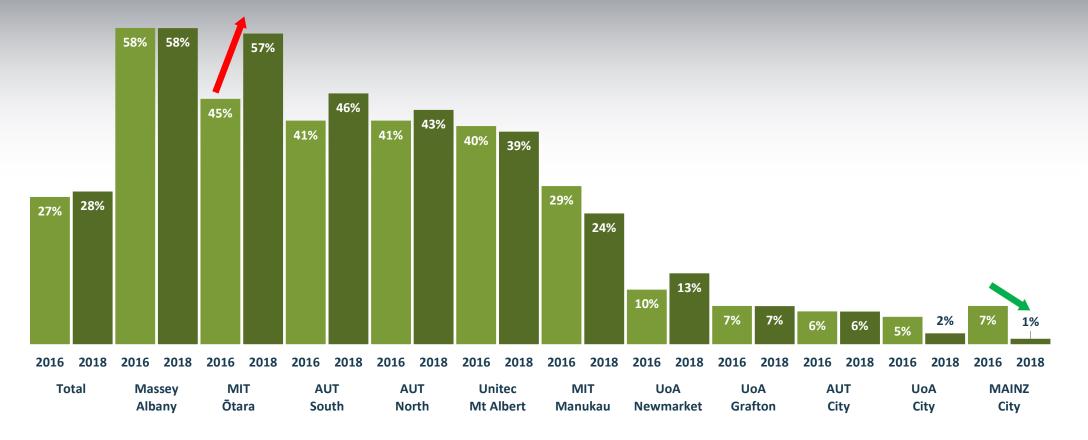




Other transport by campus



Single occupancy drivers – by campus



gravitas



Travel Time and Peak Travel

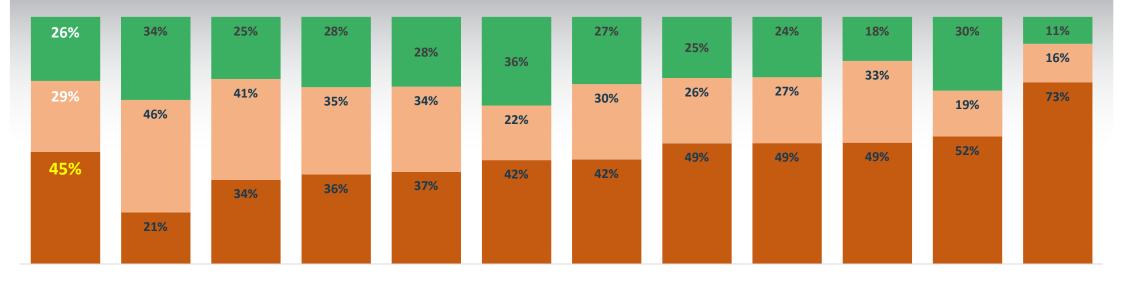




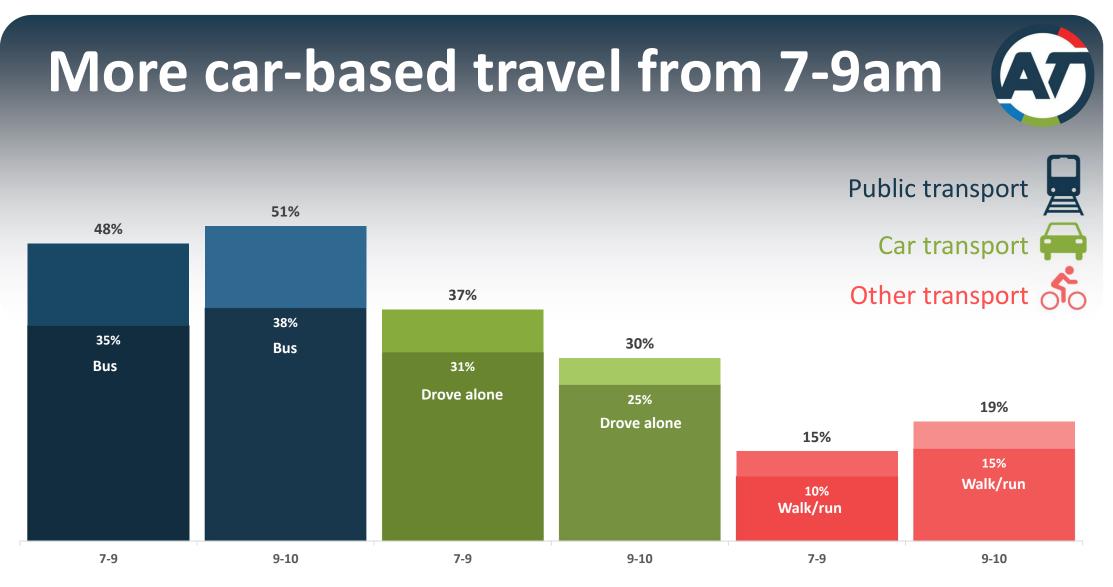




Time of arrival varies by campus; city campuses more likely to travel outside peak

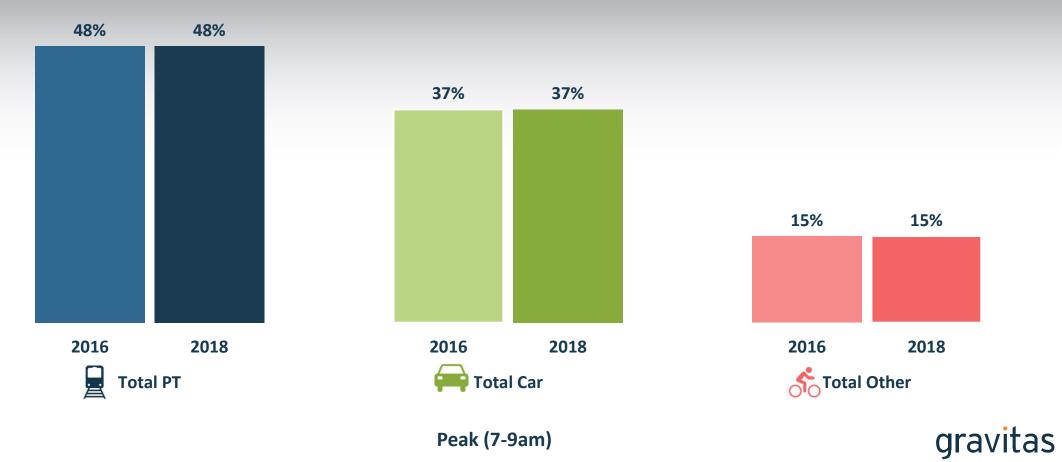






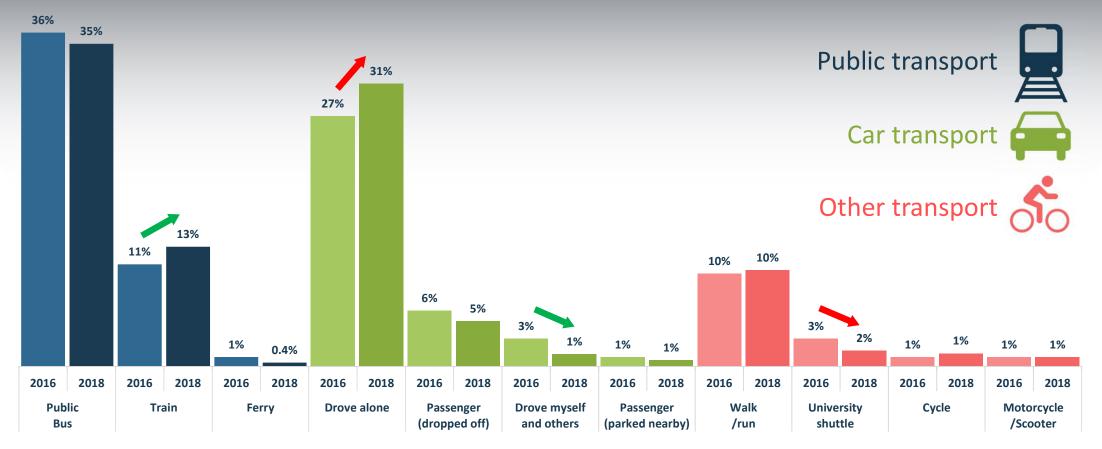
gravitas

No change in mode share overall during 7-9am peak since 2016



AT

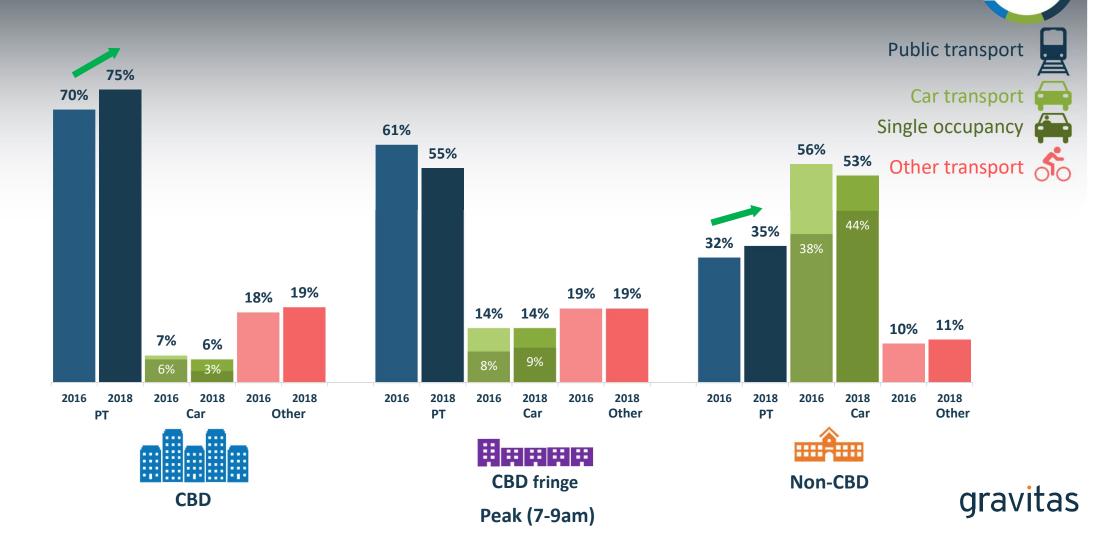
But, single occupancy cars increased in the peak; train use also increased

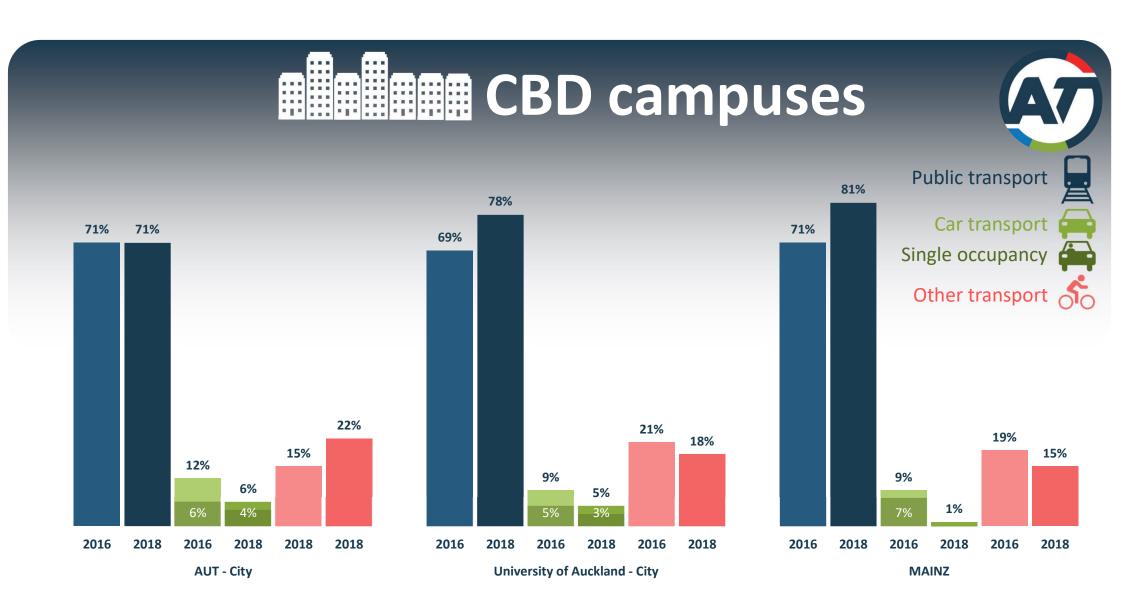


Peak (7-9am)

gravitas

PT use in peak increased for CBD and non-CBD campus groups

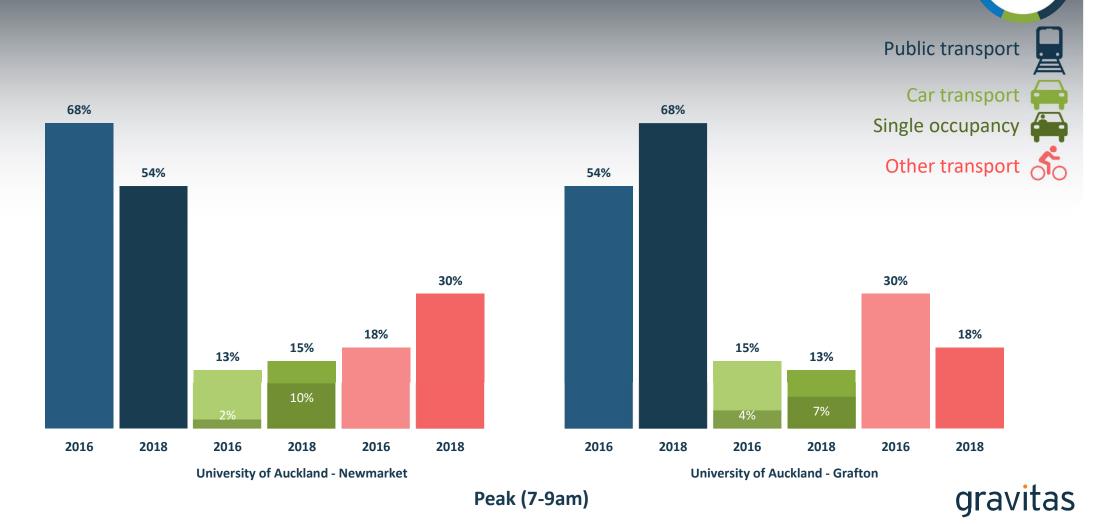


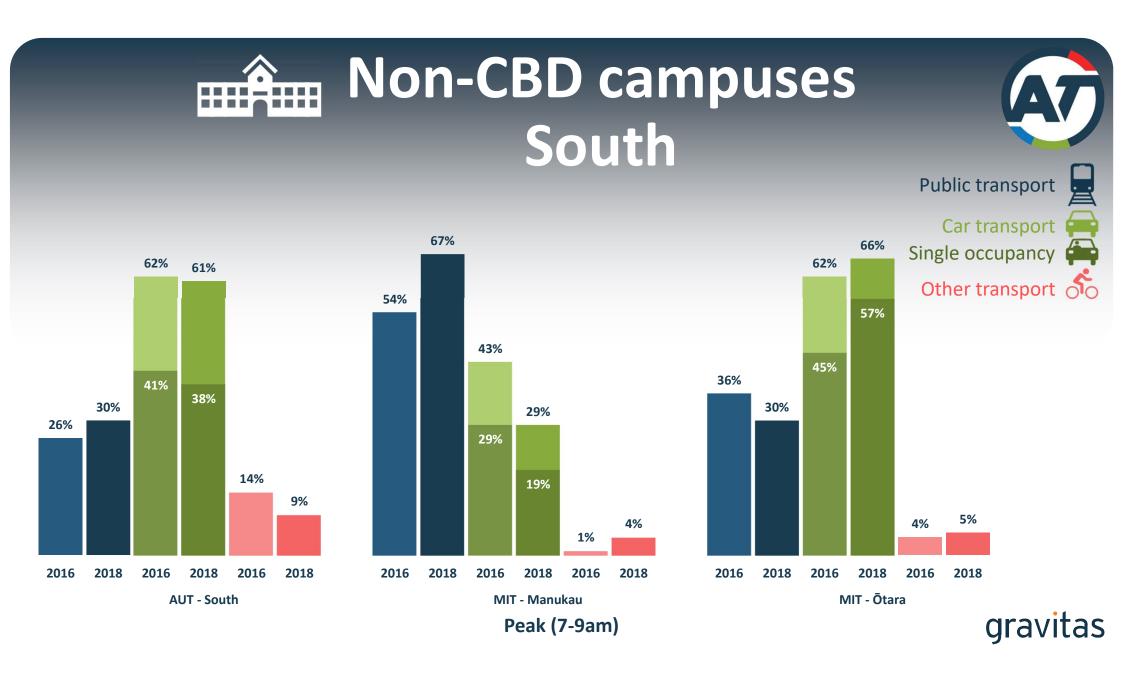


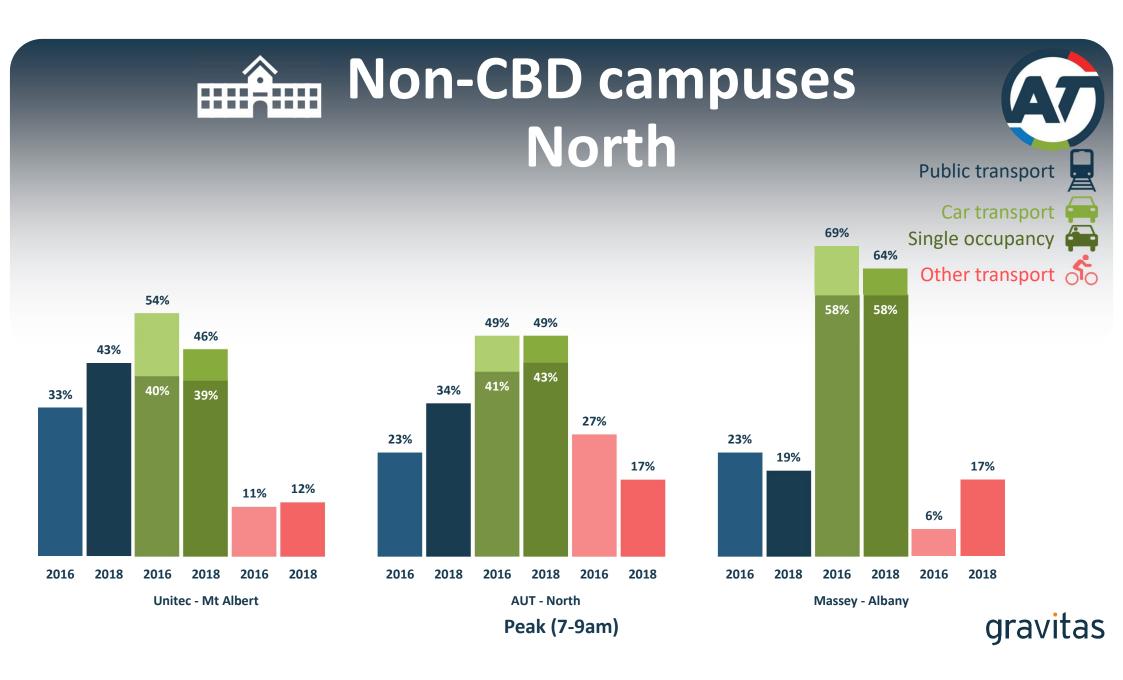
Peak (7-9am)

gravitas

Here CBD fringe campuses









Public transport use









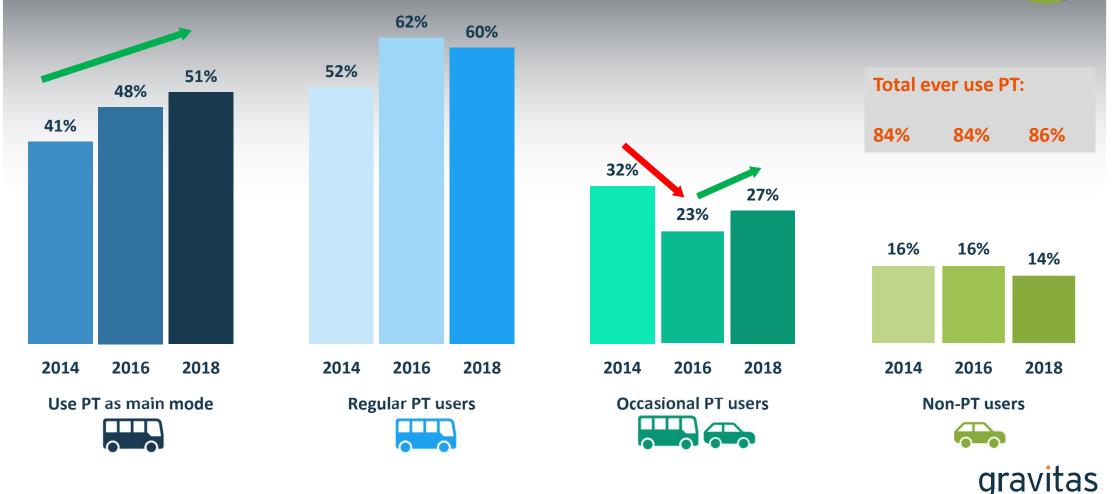
Types of public transport users



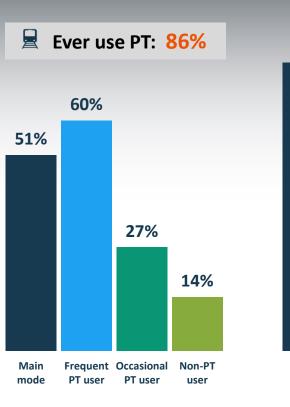
Use PT as main mode	Use PT regularly	Use PT occasionally	Non-PT users
Those who use public buses, trains or ferries as their main mode of transport to campus	Those who normally use public buses, trains or ferries to travel to/from campus	Those who use public transport sometimes to travel to/from campus or for other trips	Those who do not use public transport for any travel



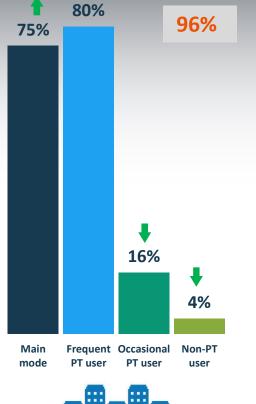
PT as main mode has increased, movement between regular and occasional use



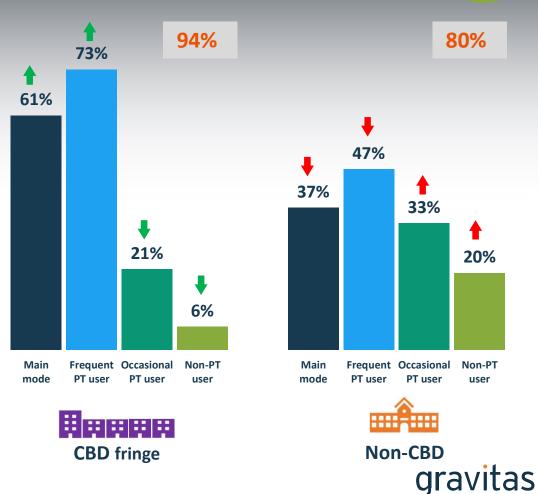
Frequency of PT use declines with distance from CBD



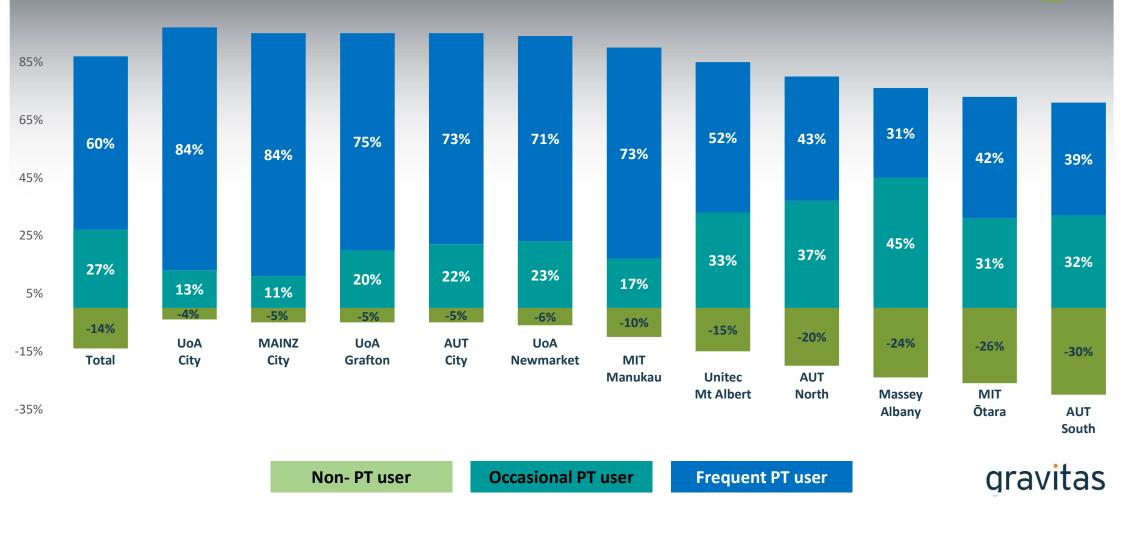
Total 2018



CBD



Public transport user types – by campus





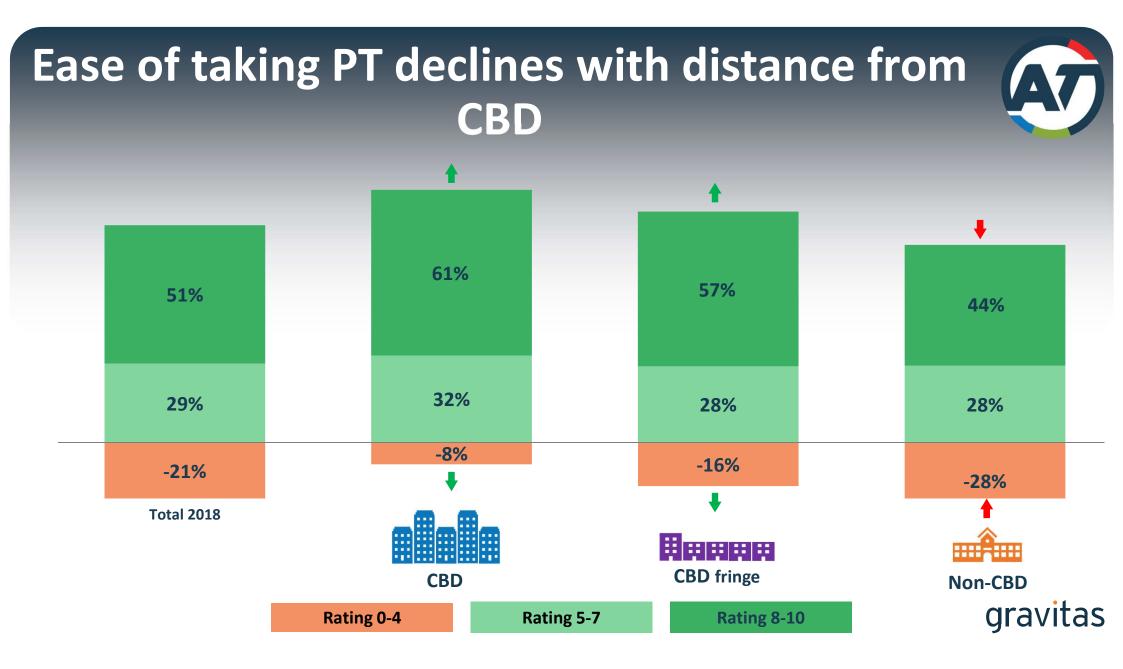
Perceptions of public transport



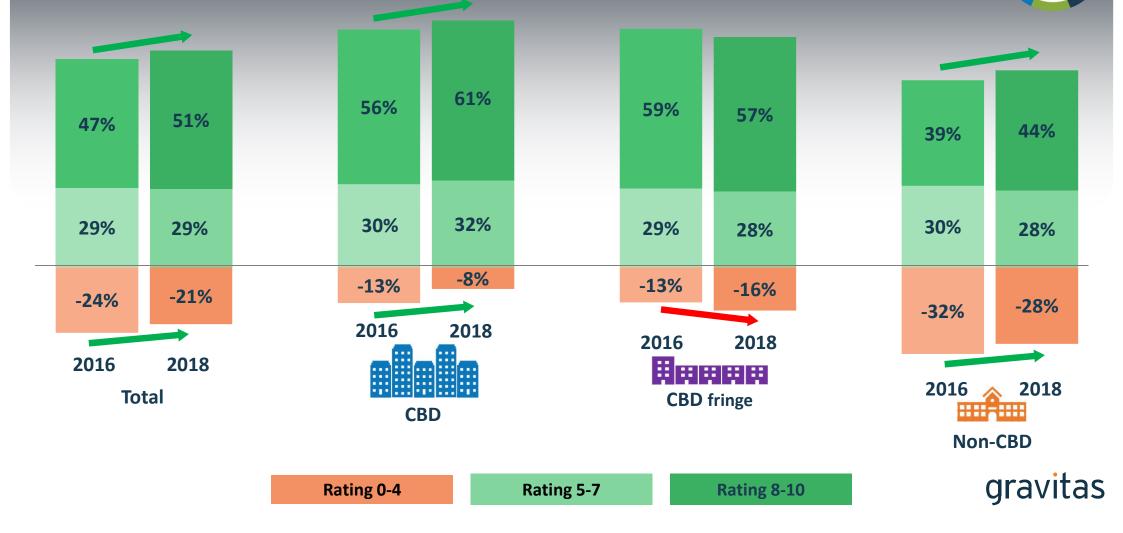




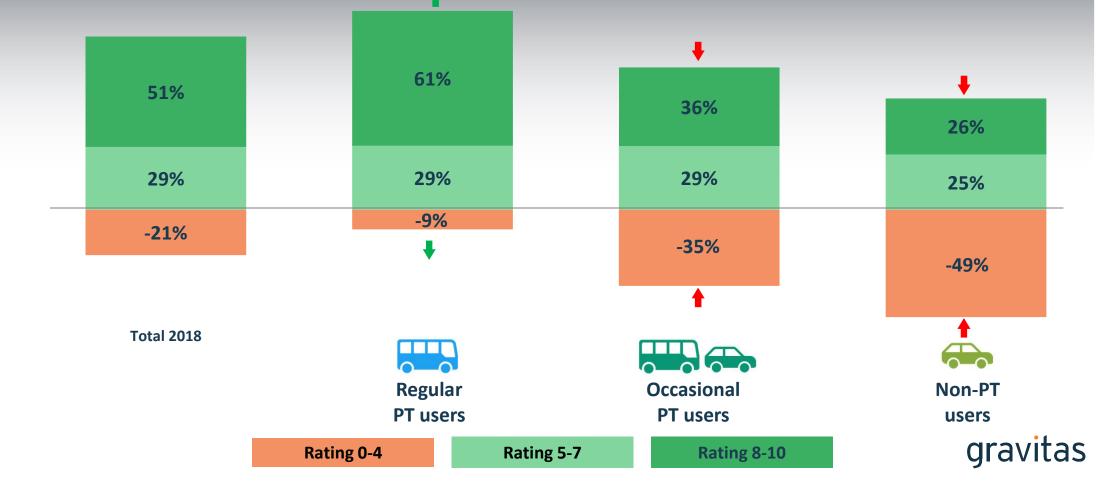




Ease of taking PT improved since 2016 – except for fringe campuses

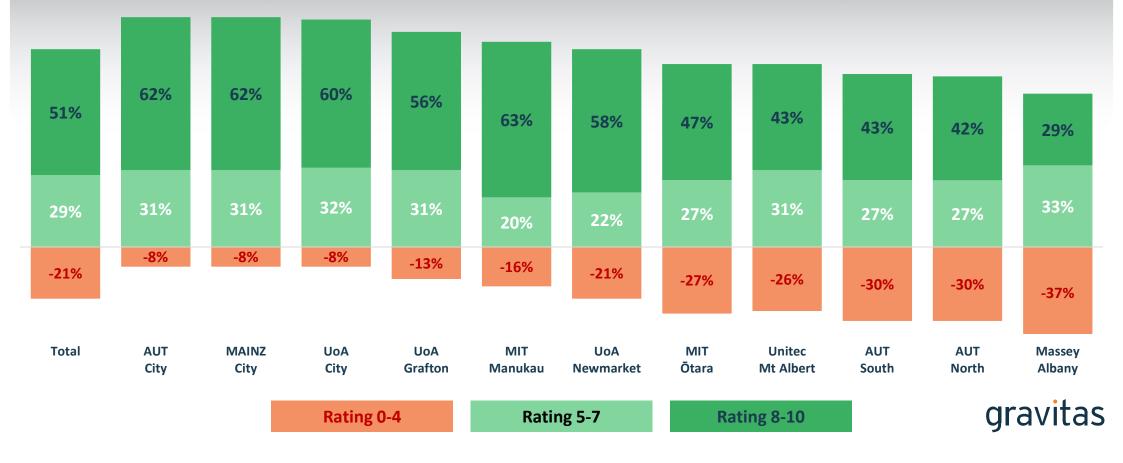


Half of non–PT users think it would not be difficult to take PT to campus

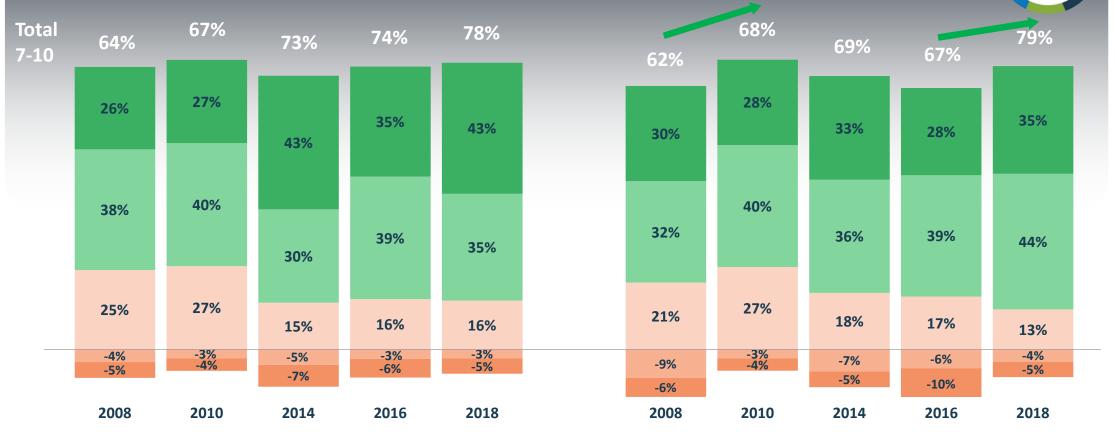


Ease of taking PT – By campus

On a scale of zero to ten, where ten means strongly agree and zero means strongly disagree, how much do you agree or disagree with each of these statements: It is easy for me to take public transport to this campus

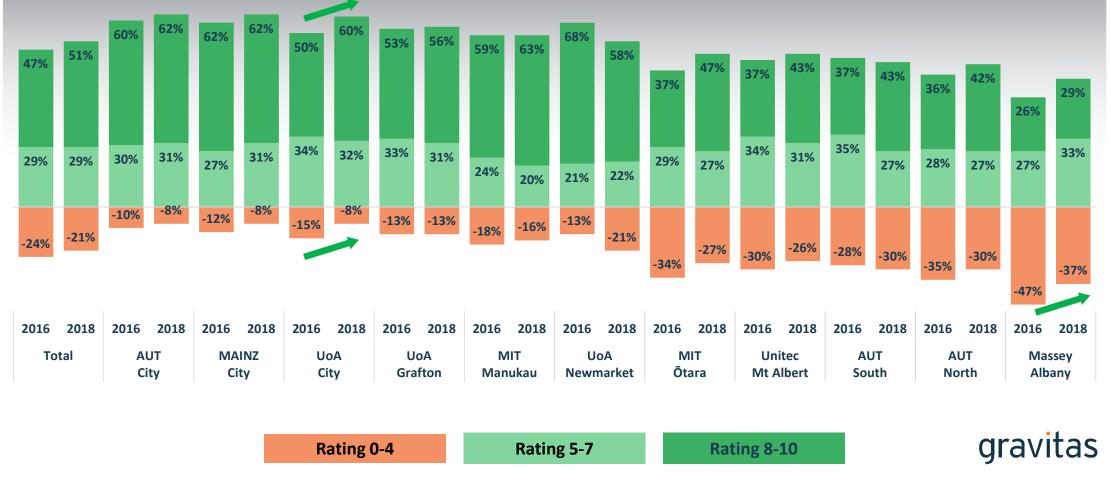


Ease of taking PT – AUT/UoA City '08-'18

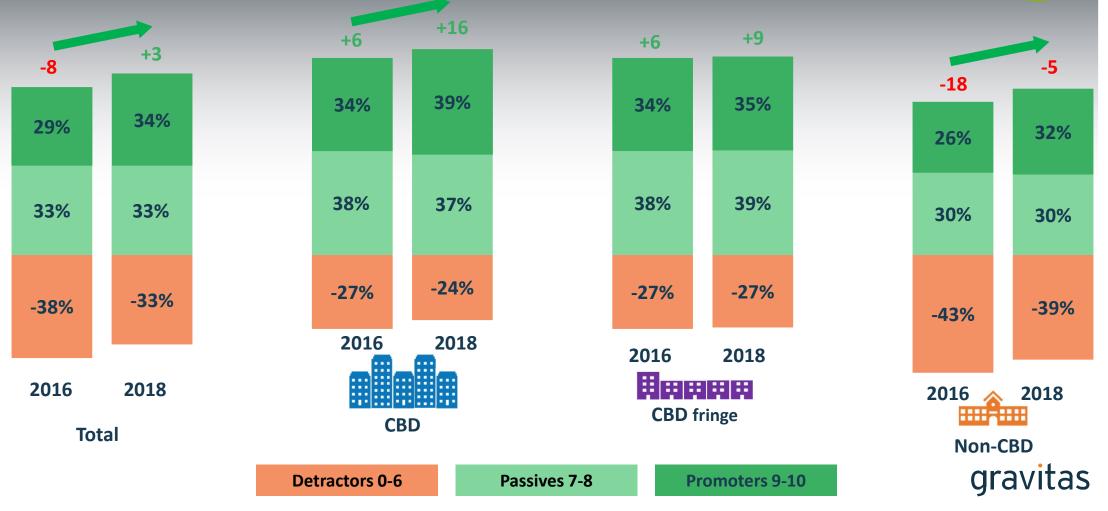




Easier to use PT to UoA City and Massey since 2016



NPS for PT improved overall and in CBD and Non-CBD campuses

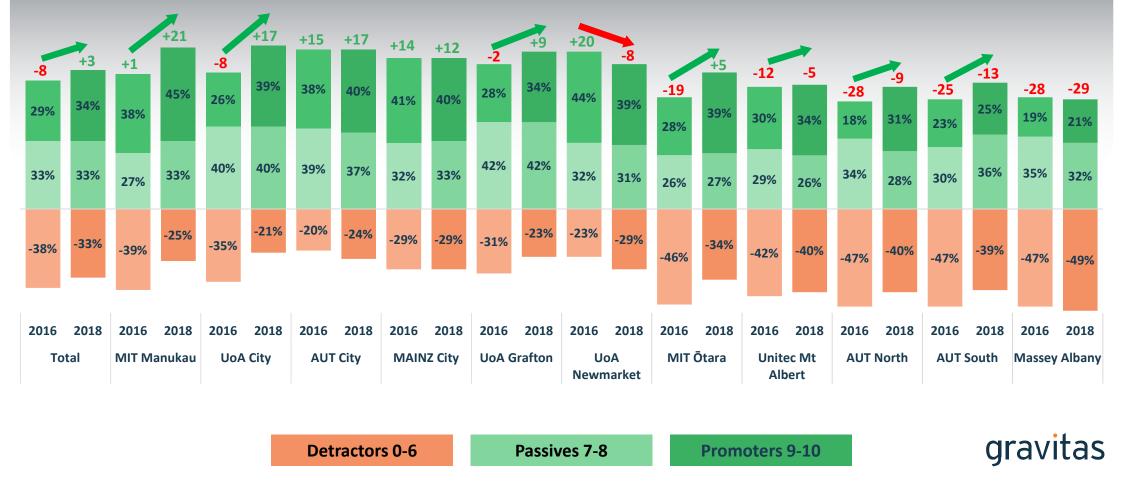


NPS highest for city campuses and MIT

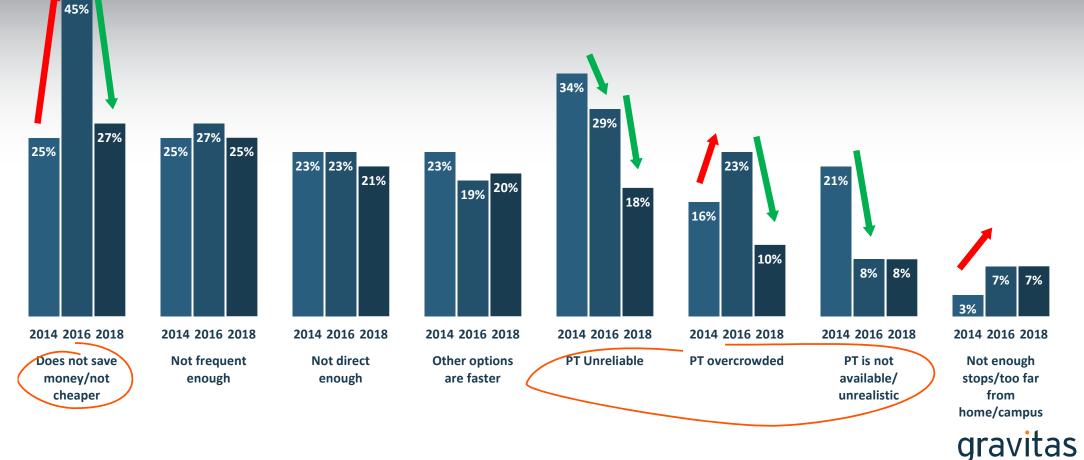
On a scale of zero to ten, where ten means strongly agree and zero means strongly disagree, how much do you agree or disagree with each of these statements: **Net Promoter** I would recommend using public transport to other students Score **Total** 34% -33% 33% +3 **MIT Manukau** -25% 33% 45% +21 **AUT City** -24% 37% 40% +17 **UoA City** -21% 40% 39% +17 **MAINZ City** -29% 33% 40% +12 **UoA Grafton** 42% +9 -23% 34% +8 31% **UoA Newmarket** -29% 39% +5 **MIT** Ōtara -34% 27% 39% -5 26% **Unitec Mt Albert** -40% 34% -9 **AUT North** 28% -40% 31% -13 **AUT South** -39% 36% 25% -29 **Massey Albany** -49% 32% 21% gravitas **Detractors 0-6** Passives 7-8 **Promoters 9-10**



A number of NPS improvements evident



Personal barriers to PT use have declined since 2016





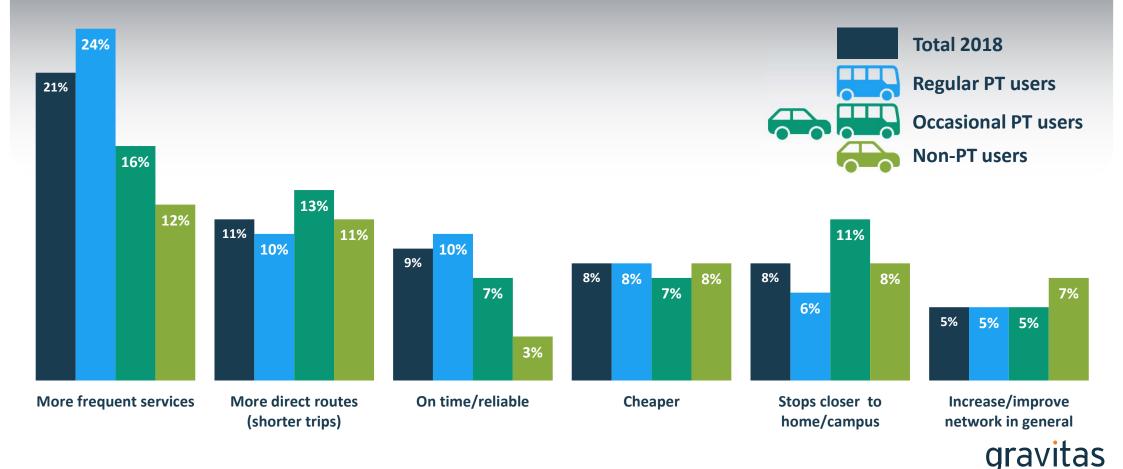
Differences evident by campus (AT)

							Campus					
What would make it easier and more convenient?	Total 2018 (n=2,157)	AUT City (n=214)	AUT South (n=158)	AUT North (n=213)	UoA City (n=232)	UoA N'mkt (n=143)	UoA Grafton (n=236)	Massey Albany (n=227)	MIT M'kau (n=190)	MIT Ōtara (n=208)	MAINZ City (n=105)	Unitec Mt Albert (n=231)
More frequent services	21%	22%	10%	20%	28%	24%	31%	23%	18%	13%	12%	20%
More direct routes (shorter trips)	11%	8%	16%	23%	4%	10%	9%	14%	7%	11%	6%	10%
On time/reliable	9%	7%	6%	4%	12%	13%	11%	12%	7%	5%	8%	9%
Cheaper	8%	7%	10%	7%	9%	4%	12%	5%	4%	6%	12%	10%
Stops closer to home/campus	8%	7%	13%	10%	5%	5%	7%	10%	2%	6%	10%	10%
Increase/improve network in general	5%	3%	1%	7%	7%	4%	5%	4%	7%	5%	7%	7%

Improvements suggested for PT also improving (reducing)



Improved frequency is main suggestion; occasionals want more direct routes and more convenient stops



AT



Walking and Cycling









Walking, or cycling potential has increased slightly



SOC drivers have significantly less potential to walk/cycle. But around 1 in 5 could.

Do you live close enough to be able to walk or cycle to and from this campus?	All Students 2016	All Students 2018
I could walk	19%	22%个
I could cycle	13%	16%个
Could walk or cycle (net)	26%	28%
Neither	74%	72%

Drive Car Alone (SOC) Mainly 2018
10% 🖖
13%
18% 🖖
82% 个

Walking and cycling potential by campus

Close enough to							Campus					
walkorcycleto/fromthiscampus?	All Students 2018	AUT City (n=214)	AUT South (n=158)	AUT North (n=213)	UoA City (n=232)	UoA N'mkt (n=143)	UoA Grft'n (n=236)	Massey Albany (n=227)	MIT M'kau (n=190)	MIT Ōtara (n=208)	MAINZ City (n=105)	Unitec Mt Albert (n=231)
I could walk	22%	22%	19%	14%	23%	38%	27%	24%	16%	15%	18%	21%
I could cycle	16%	6%	17%	12%	16%	35%	19%	15%	13%	9%	13%	20%
Could walk or cycle (net)	28%	22%	27%	21%	29%	55%	34%	28%	22%	19%	23%	31%
No, neither	72%	78%	73%	79%	71%	45%	66%	72%	78%	81%	77%	69%
Current Behaviour:												
Commonly walk	17%	18%	8%	11%	23%	32%	34%	15%	3%	5%	23%	15%
Commonly cycle	3%	1%	-	2%	3%	11%	4%	3%	2%	1%	1%	2%
Conversion:												
Difference could to actual - walk	-5	-4	-11	-3	-	-6	+7	-9	-13	-10	+5	-6
Actual/Could - cvcle	19%	17%	0%	17%	19%	31%	21%	20%	15%	11%	8%	10%

Suggestions for walking/cycling focus on central cycle lanes

What would make it easier and more convenient to walk to/from this Campus?	Total 2016	Total 2018
More protection from weather	1%	5%个
More pedestrian crossings/over bridge	3%	4%
More pedestrian friendly streets	1%	2%
No hills	2%	2%
Better lighting	5%	4 2% ♥
Shortcut/direct path	2%	2%
Don't know	2%	9%个
No suggestions	68%	68%

Low suggestion levels for easing walking suggest constraints may be motivation rather than tangible barriers

UoA Grafton, Massey Albany both 6%

What would make it easier and more convenient to cycle to/from this Campus?	Total 2016	Total 2018
Bigger/better/more cycle lanes	34%	34%
Having a bike	10%	8%
Safer/less traffic	11%	8%
More/better bike parks/racks and security	8%	5%
Less hills	3%	4%
Better route	1%	3%
Would never cycle to this campus	3%	4%
No suggestions	36%	29%

UoA N'mkt 54%, UoA Grafton 47%





Perceptions of parking

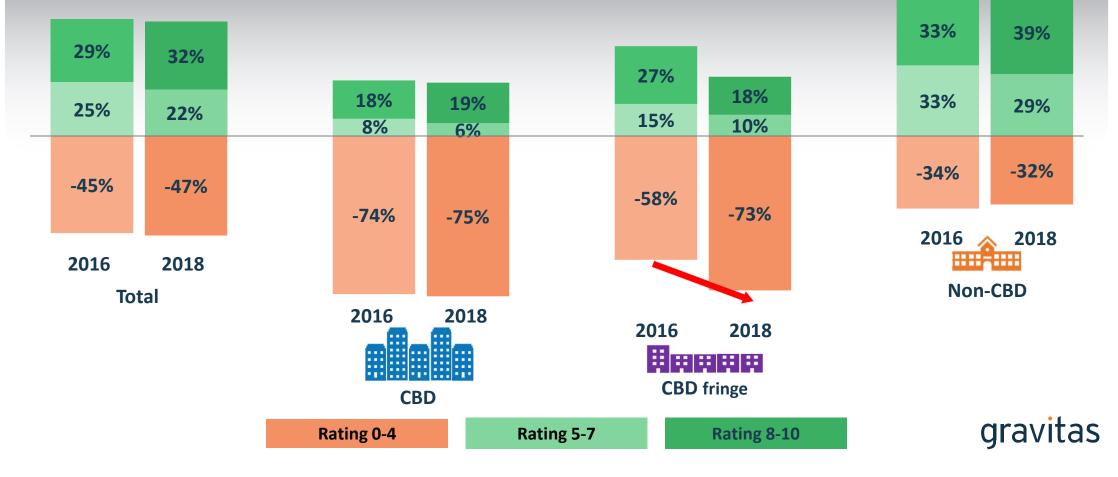








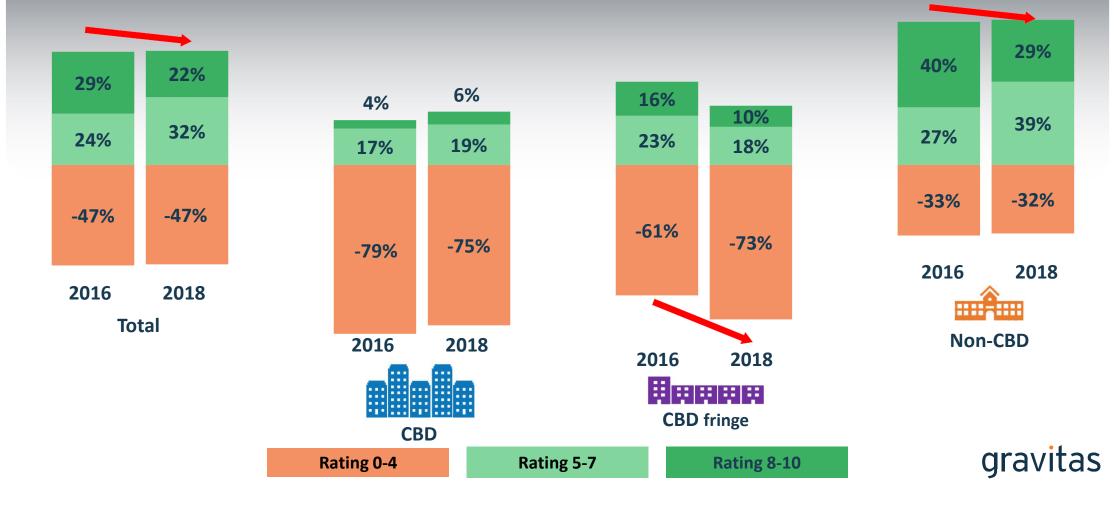
Parking much easier at non-CBD campuses and not worsening, Grafton/N'Mkt campuses show decline

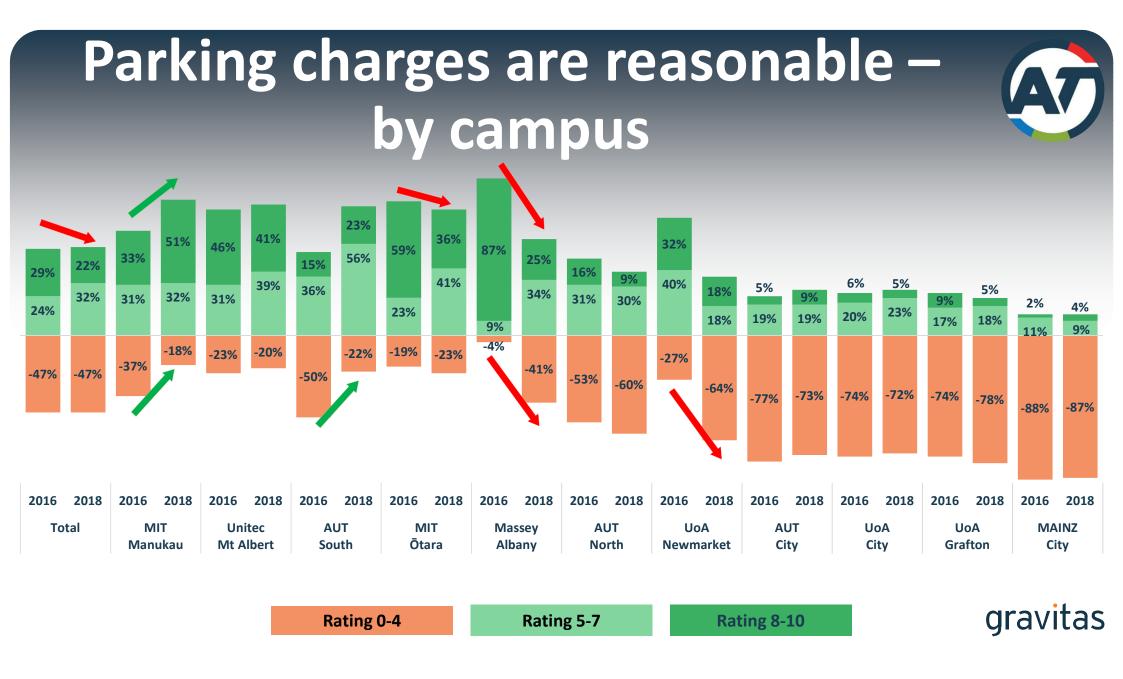


Grafton and Newmarket show biggest declines in ease of parking



Parking charges most reasonable in non-CBD campuses







Drive Alone in Car (SOC)

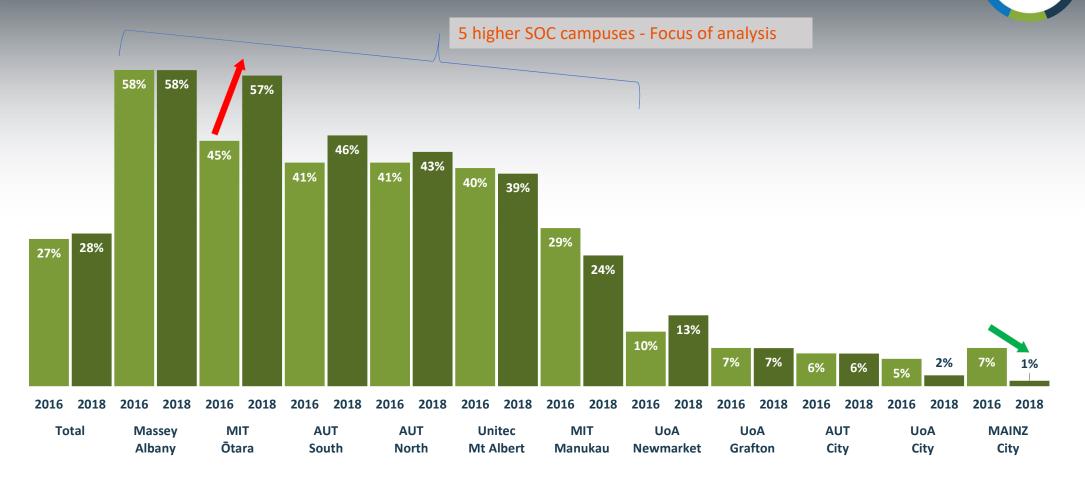




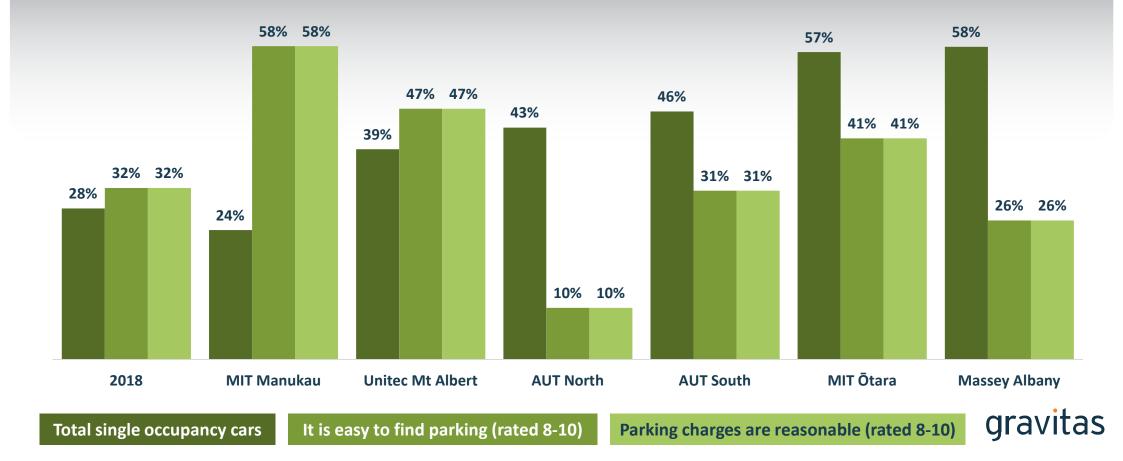




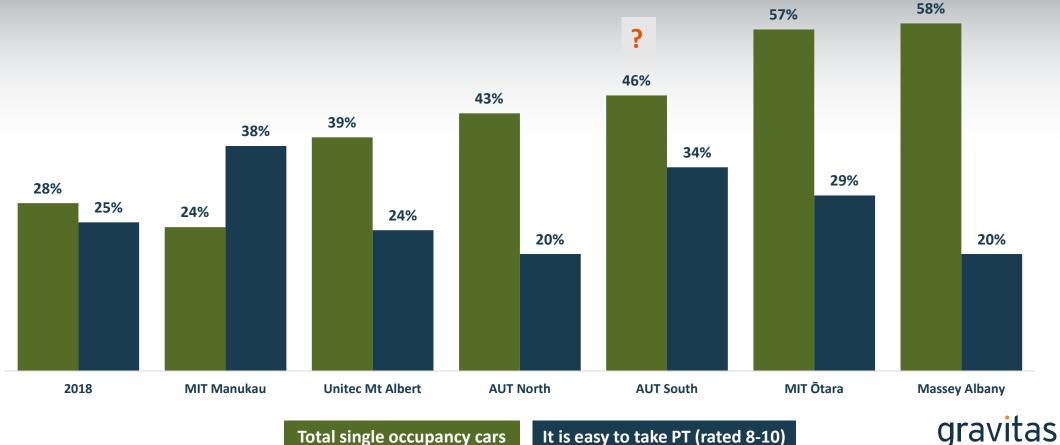
Single occupancy drivers – by campus



Ease/cost of parking doesn't necessarily drive

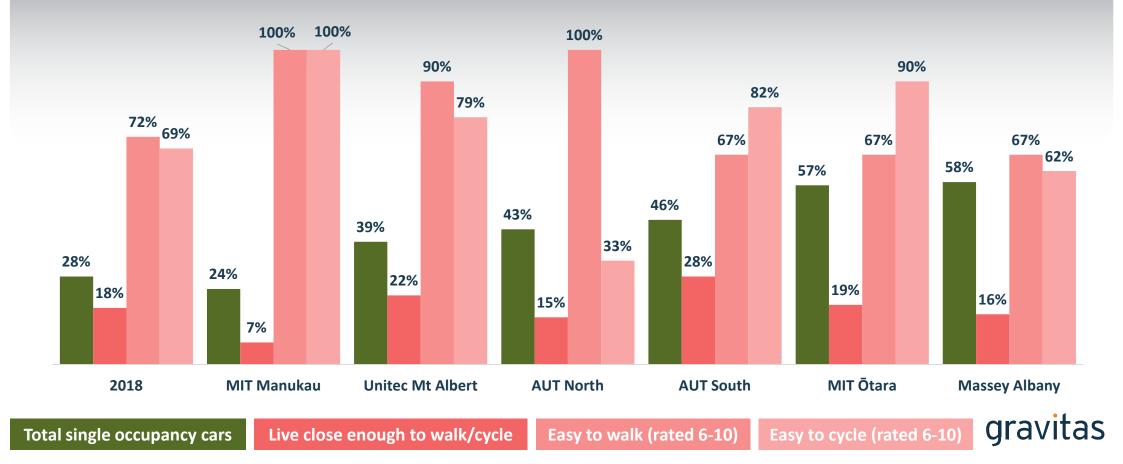


SOC level doesn't always match perceived ease of using PT

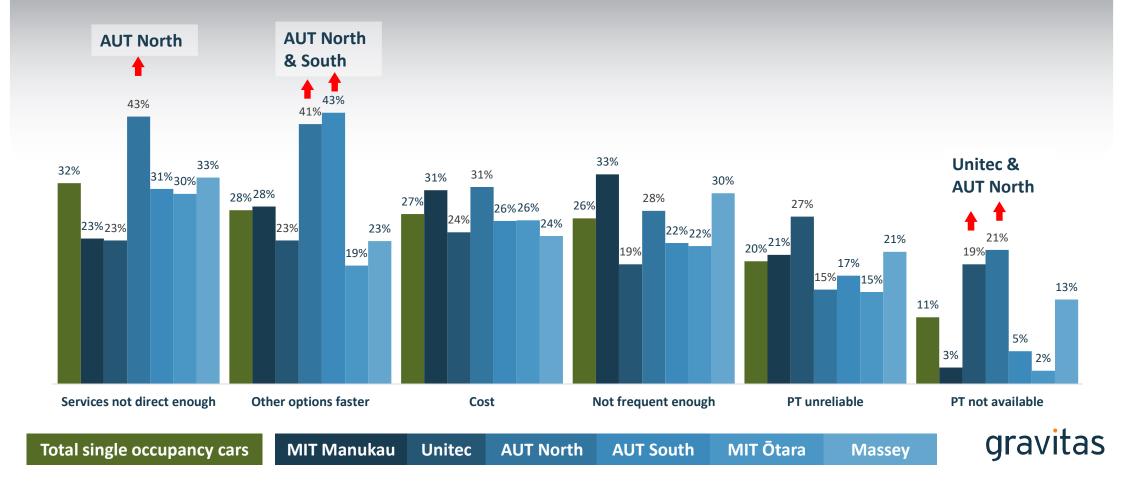


Total single occupancy cars

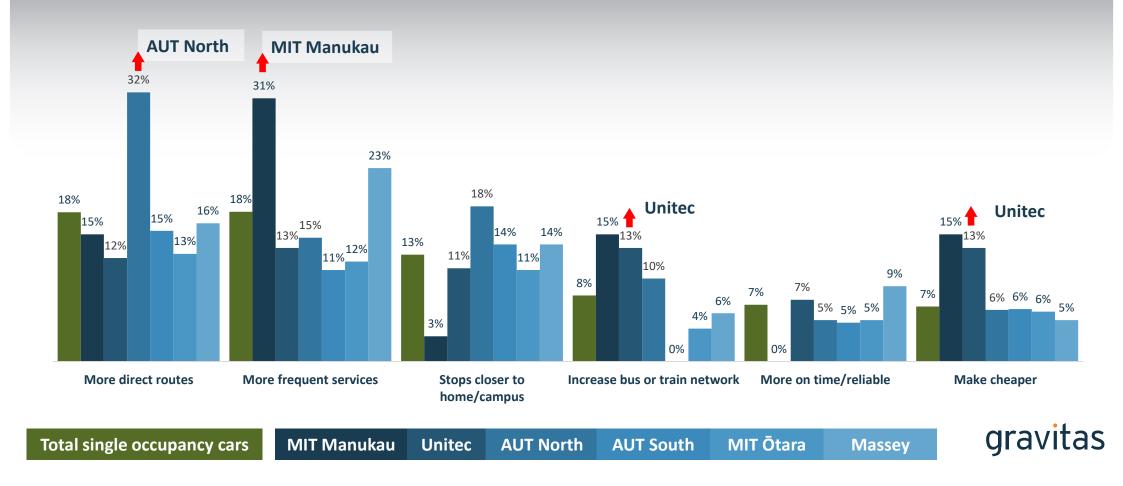
Ease of walking/cycling not strongly correlated with SOC use



Barriers to PT for single occupancy cars



Improvements to PT for single occupancy cars





Tertiary student concession

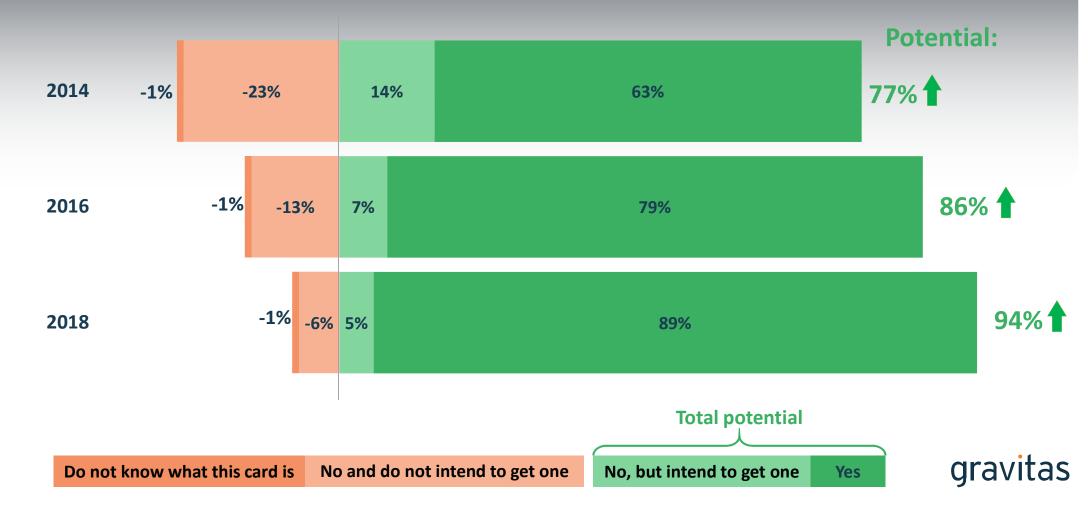




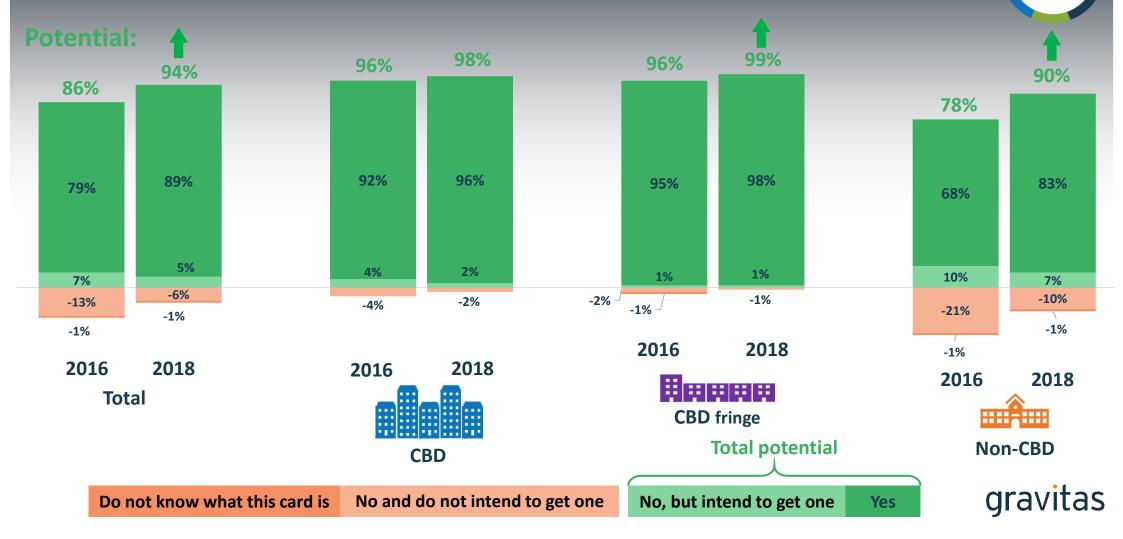




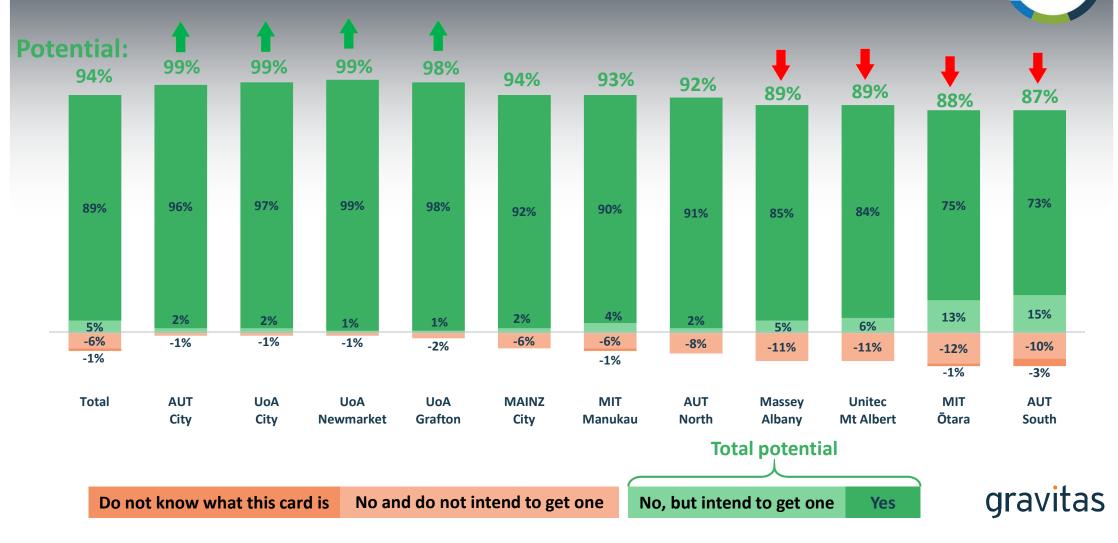
HOP card ownership grown substantially over time



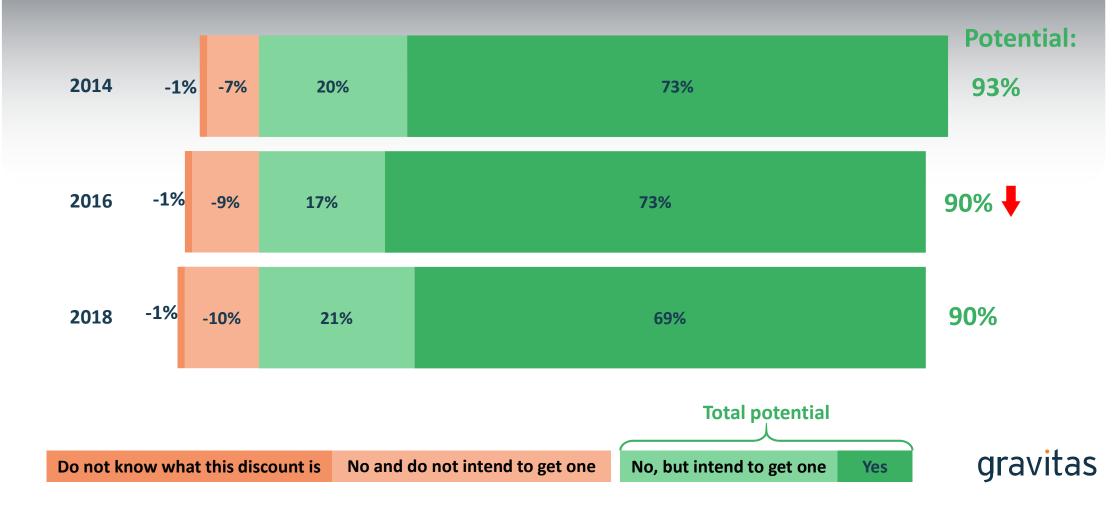
Non CBD campuses show strong growth



HOP Card ownership – by campus

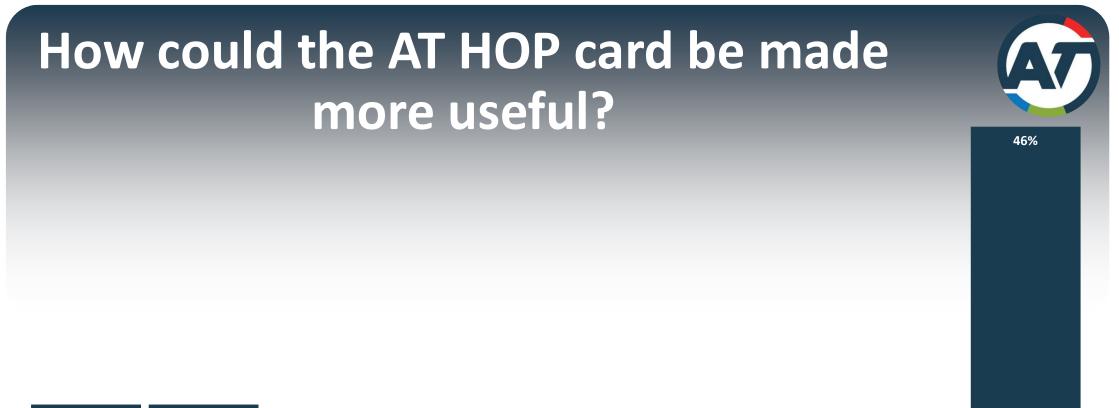


Student concession uptake stalled over time



Student concession – by campus









Sources of Travel Information









Information seeking moving towards app; word of mouth also strengthening. Google maps strong

								Campus					
Where do you get you transport	Total	Total	AUT	AUT	AUT	UoA	UoA	UoA	Massey	МІТ	MIT	MAINZ	Unitec
information from?	2016	2018	City	South	North	City	N'mkt	Grft'n	Albany	M'kau	Ōtara	City	Mt
			(n=214)	(n=158)	(n=213)	(n=232)	(n=143)	(n=236)	(n=227)	(n=190)	(n=208)	(n=105)	Albert (n=231)
AT website	58%	40%♥	38%	30%	49%	44%	44%	34%	46%	31%	27%	43%	52%
AT public transport app	24%	32%个	30% 🔇	18%	32%	38%	43%	45%	30%	28% (21%	31%	30%
Google/Google Maps	30%	29%	35%	34%	23%	19%	52%	31%	27%	20%	27%	31%	29%
Word of mouth (friends/family)	9%	14%个	9% 🤇	22%	12%	11%	11%	13%	12%	15% (21%	19%	13%
AT customer service centres	10%	7%♥	8%	4%	9%	4%	3%	4%	8%	12%	8%	8%	9%
(Eg. train and busway stations)													
From the university	7%	7%	7%	10%	7%	5%	4%	4%	7%	8%	10%	4%	8%
Advertising about public	2%	3%个	2%	8%	4%	4%	1%	3%	3%	2%	5%	2%	5%
transport or													
AT HOP cards													
Emails from AT	-	2%个	1%	1%	4%	1%	4%	3%	<1%	1%	1%	-	5%
NA – I don't seek travel	1%	3%个	2%	2%	1%	3%	-	2%	3%	2%	3%	4%	4%
information													



Students Relocating to Save Travel Time/Cost









About 15% of students have moved closer; for about 7% improving transport was a factor

							Campus					
	Total 2018	AUT City (n=214)	AUT South (n=158)	AUT North (n=213)	UoA City (n=232)	UoA N'mkt (n=143)	UoA Grft'n (n=236)	Massey Albany (n=227)	MIT M'kau (n=190)	MIT Ōtara (n=208)	MAINZ City (n=105)	Unitec Mt Albert (n=231)
Yes, Relocated (24% in 2016)	27%	27%	11%	35%	27%	32%	32%	38%	22%	17%	27%	28%

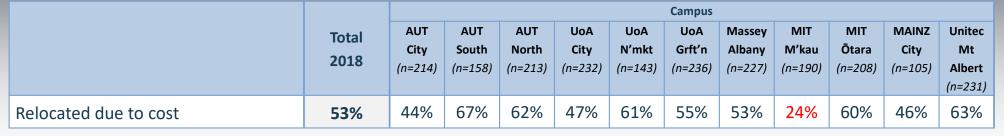
Of those who moved:

Moved closer	55%	44%	61%	62%	60%	50%	61%	64%	36%	51%	50%	55%
Moved further away	33%	47%	28%	30%	27%	39%	25%	23%	52%	43%	39%	31%
About the same	11%	9%	11%	8%	13%	11%	15%	13%	12%	6%	11%	14%

How transport impacted decision to move

Easier to walk to this campus	22%	26%	11%	24%	29%	26%	26%	16%	7%	14%	21%	26%
Better public transport to campus	21%	21%	11%	15%	16%	17%	17%	20%	26%	34%	39%	23%
Easier to cycle to this campus	5%	4%	6%	1%	3%	7%	7%	3%	2%	-	7%	12%
None of these	58%	58%	83%	62%	53%	57%	55%	64%	67%	51%	46%	52%

Cost drives half of moves; and transport cost reduction 35% of moves



Cost related reasons include:

Cheaper rent (cheaper area/moved with parents/partner etc)	63%	72%	67%	65%	55%	65%	65%	63%	60%	57%	77%	59%
Cheaper transport costs (fewer stages on PT etc)	36%	24%	58%	30%	24%	43%	43%	33%	20%	43%	39%	46%
Moved where I can walk/cycle to campus	17%	20%	8%	17%	24%	18%	24%	4%	-	10%	-	29%
Cheaper petrol costs	13%	4%	17%	9%	7%	4%	7%	30%	10%	5%	15%	20%



Carpooling Apps/Sites









Low awareness and use of carpooling sites/apps

	Campus											
	Total 2018	AUT City (n=214)	AUT South (n=158)	AUT North (n=213)	UoA City (n=232)	UoA N'mkt (n=143)	UoA Grft'n (n=236)	Massey Albany (n=227)	MIT M'kau (n=190)	MIT Ōtara (n=208)	MAINZ City (n=105)	Unitec Mt Albert (n=231)
Yes – Currently use at least one carpooling website/ app	2%	4%	1%	1%	3%	1%	1%	2%	2%	1%	6%	1%
Yes – I'm aware, but don't currently use them	9%	6%	10%	5%	12%	13%	7%	20%	4%	6%	6%	13%
Νο	89%		1	1			1	1	!		1	1
Of those aware:							aware	of				
Aware of the Smart Travel website	19% (n=46)			W		be likel	r they ly to us n futu					
Not aware of the Smart Travel website	81% (n=193)			3	iiidit I	Idvell	mutu					



In Summary.....











Main Mode

- 66% of main mode is non-car, including 51% using some form of PT (esp. bus, 37%).
- Use of PT has increased significantly since 2014 (51% cf 41%), car use has plateaued in 2016/18 (35%).
- Car use is down to 4% (from 10% in 2016) for CBD campuses and steady at 13% in CBD fringe.
- Use of PT (and non car) differs by campus type non-CBD campuses showing much higher car use (53%).
- There appears to be potential to grow non-car modes at sites outside CBD.





Peak Period Travel

- Student trips arriving in peak (7-9am) vary substantially across campuses, with UoA N'mkt, AUT City and South and Mainz showing lower levels.
- Car use is higher in peak at 37%, consistent with 2016.
- Single occupancy car travel (SOC) has increased in peak period (27% 31%) since 2016 mainly at non CBD campus types. Train travel has increased in peak and PT generally is up for CBD and non-CND campuses (collectively).

Single Occupancy Car Use

- Single occupancy car use has increased in no-CBD campus category particularly in MIT Ōtara (to 57%). Massey Albany is stable but highest at 58%.
- There does not seem to be any strong pattern of SOC use reflecting ease of parking, parking cost, non ease of using PT or ease of walking/cycling.
- Directness of PT/journey time and cost are main barriers to PT use given by SOC users.



PT Use and Perceptions

- 86% of students are common(60%), or occasional (27%) users of PT and 51% say it is their main mode. These figures are significantly lower for non-CBD campus students, though 80% still use PT to some extent.
- Frequency of PT use is lower for non-CBD campuses as is perceived ease of use, which has increased for both CBD and for non-CBD categories, but decreased for CBD fringe.
- Half of non PT users rate ease of PT travel for them to their campus positively (6 to 10). Massey Albany shows strongest increase.
- PT appears more strongly positioned:
 - Personal barriers to PT use have declined since 2016 for relative cost, reliability, crowdedness and being unavailable/ unrealistic.
 - AUT North has particular barrier of indirect routes
 - Suggested improvements have also reduced. With declines in requests for improved frequency, directness and reliability followed by lower cost. These remain the main suggestions.





Walking and Cycling

- Proportion of students who say they could walk and/or cycle to campus has increased since 2016 (38% from 32%). City fringe campus group has highest levels of walking /cycle at 25% main mode.
- Motivation seems to be the greatest barrier to walking as stated barriers for those able are low. More/better cycle lanes are most common suggestion from those who say they could cycle.

Parking

• Parking is much easier at non-CBD campuses and shows increasing ease. Grafton and Newmarket show largest declines in ease.





HOP Card Use and Information Sources

- HOP card ownership has increased year on year to 89% of students with a further 5% intending to get a card.
- Concession uptake is stable at 69%, with a further 21% intending.
- Tertiary students are using the AT App more (32%), though the AT website (40%), is most mentioned source. Google maps (29%) and word of mouth (14% - higher in non-CBD campus category) are also significant.

Carpooling

- Current use of a carpooling app/site is low at 2%, with a further 9% aware of carpooling apps/sites.
- Of those using/aware, 23% say they are likely to use the Smart Travel app in the future, but just 6% say they are very likely to do so.





Relocating

- About 15% of students have moved closer to their campus; for about 7% improving transport was a factor. This is highest for Massey Albany, AUT North and CBD fringe campuses where relocations with transport as factor were made by around 14% to 16% of students.
- Reducing costs drives half of relocation decisions; and transport cost reduction is a factor in 35% of moves.

Research Presentation

7 June 2018

Auckland Transport Student Travel Survey 2018



