

A photograph of a dairy farm. In the foreground, there is a paved road with yellow dashed lines. A utility pole with power lines stands on the right. In the middle ground, a building with a colorful sign (yellow, red, green, blue) is visible. To the left, there is a large blue structure, possibly a silo or storage tank. The background shows a cloudy sky and some trees.

**Neighbourhood differences  
in mode choice in the trip  
to the dairy**

**Karen Witten & Emily Rose**

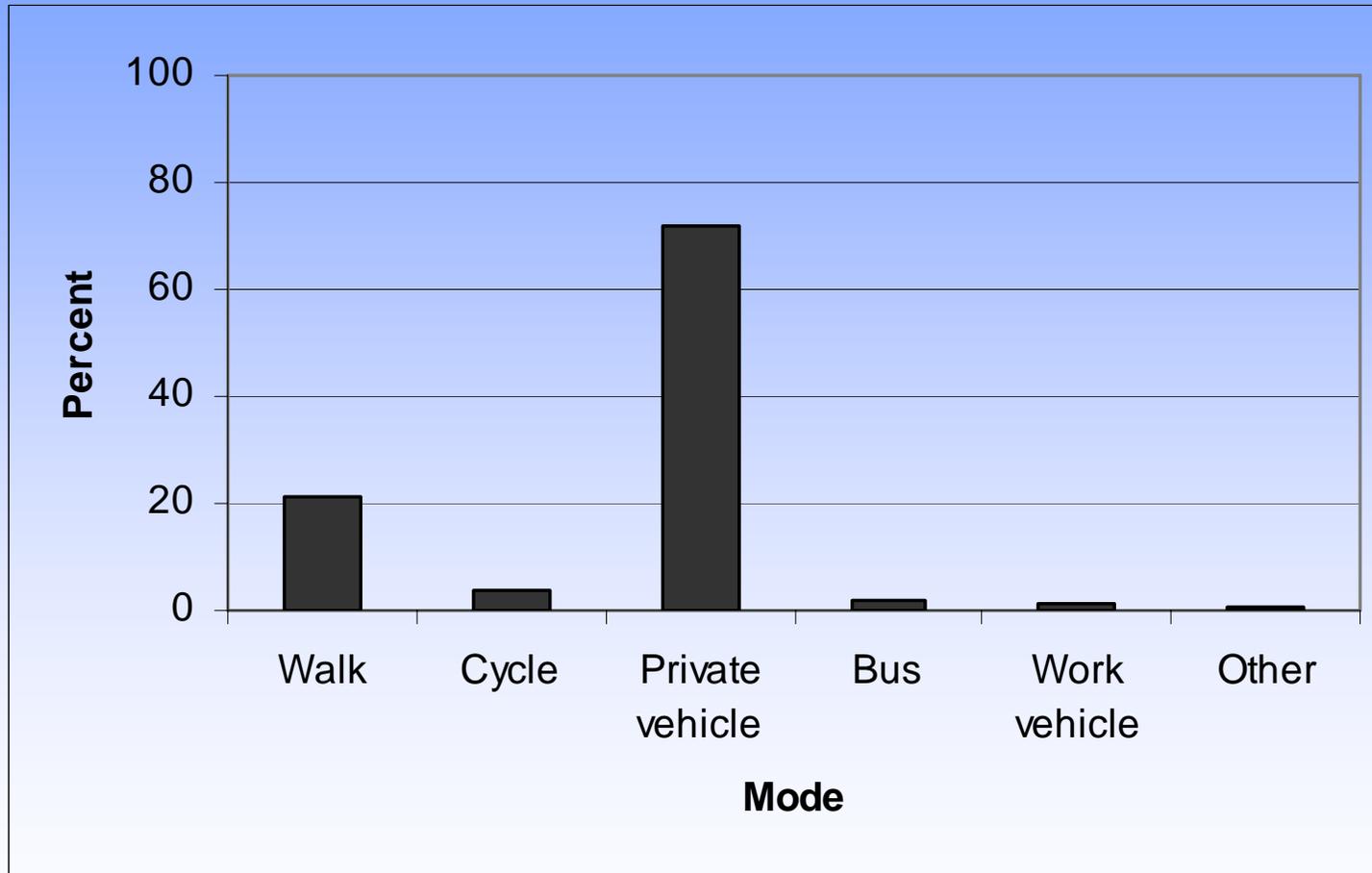
# Locality walking study 1

## Massey & Te Atatu Peninsula

- On street survey of mode choice in the trip to the dairy
  - 635 interviews with people > 16 years
  - Interviews conducted outside 12 dairies - 6 in each locality
  - 12 items questionnaire
  - 70% response rate



# Mode choice in the trip to the dairy



# Mode choice by location

- Women were significantly more likely to walk than men
- No difference by age
- Massey
  - Walking 16 % of trips to the dairy
  - Driving 79% of trips
- Te Atatu Peninsula
  - Walking 26% of trips
  - Driving 65 % of trips

# Walking times/distance

- Mode choice was related to estimated travel time
- 75% of those who walked to the dairy estimated the trip took 10 mins or less (5 mins or less for about half)
- 31% of those who drove estimated that to walk would take 10 mins or less

# Reason for mode choice

| Main reason                         | Walk (%) | Private vehicle (%) |
|-------------------------------------|----------|---------------------|
| Quickest way                        | 28.35    | 29.64               |
| Cheapest way                        | 6.3      | 0.68                |
| Most convenient                     | 22.83    | 29.64               |
| The weather                         | 13.39    | 2.49                |
| Had to carry things                 | 0.79     | 6.11                |
| Going or coming back from somewhere | 3.15     | 21.27               |
| Fitness/exercise                    | 8.66     | 0                   |
| Children                            | 0.79     | 2.26                |
| Work                                | 0        | 2.49                |
| Other                               | 15.75    | 5.43                |

# Locality walking study 2

## Massey & Te Atatu Peninsula

- Photovoice: characteristics associated with pleasant and unpleasant neighbourhood walking
  - 10 residents in each locality
  - Data: photos and place-based talk on neighbourhood walkability



# Photovoice:

## What makes walking pleasant?

### Te Atatu Peninsula

- Coastal and wetland walkways
- Proximity to native plant and birdlife
- Views of sea and city
- Safe quiet streets

### Massey

- Attractively landscaped parks
- Elevated views and outlooks
- Remnant pockets of natural spaces (eg waterways)
- Proximity to some amenities

## *Te Atatu Peninsula*



**..every one can enjoy the view while walking**

## *Te Atatu Peninsula*



**This could look like anywhere in the Waitakeres but it is not, you don't have to drive to get that feeling you are out of Auckland**

## *Massey*



**Walkways like this through parks and waterways are relaxing and peaceful to walk through - away from the busy main roads. Would be nice to have more of these to get us from A to B.**

*Massey*



**Makes the walk worthwhile**

# Access to nature

‘I like seeing nature, like this park beside us here there’s lots of ducks in it sometimes. In the middle of all these houses, there’s ducks.... So you think oh it’s not so poisonous and yucky around here after all. There’s actually animals that are alive and no one is feeding them, so they’re living off nature, you know’

# Photovoice:

## What makes walking unpleasant?

### Te Atatu Peninsula

- Main road traffic volumes and footpath safety
- Areas in need of maintenance
- Graffiti/vandalism

### Massey

- Unsafe footpaths and roads
- Physical barriers to walking
- Obscured park entranceways
- Rubbish/safety
- Graffiti/vandalism
- Pylons

## *Massey*



**Gardens encroaching on the footpaths can make walking difficult particularly when the footpath is right by the road with no grass verge and the road is a busy one where vehicles tend to be speeding.  
(Triangle Rd)**

# *Massey*



**Children step out onto the road, there is no room scary!!!  
(Don Buck Rd)**

*Massey*

*Te Atatu Peninsula*

## Verge/safety



**Like: Grassed verge between path and road... a gap between you and the next speeding car (Sunpark Place)**



**Safe!!**

# Alleyways



**Like: Alleyways, easy access**



**Dislike: Convenient but water collects in heavy rain to 6" deep and remains until dried by weather (Glenhaven to Piriti Walkway)**

*Massey*

## Park and walkway entrances



**When approaching walkways I will sometimes feel anxious about who might be hiding in there – especially when the entrance is overgrown like this one**

**(Lanham Lane to Triangle Park)**



**Local park entrance: not inviting at all, quite scary, no signage, not obvious**

*Massey*

*Te Atatu Peninsula*

# Sights of dis-ease



**...besides being visually disturbing, left me with a feeling of unsafeness in this street – (Lilburn Rd)**



**Idiots running rampant**

Massey

## Rubbish/safety



**This park my family and I visit often.... bottles lying around that my young children would more than happily go and have a swig on, it's unsightly and potentially harmful (Triangle Park)**



**Condom on the footpath! It is not a pretty sight if you are walking on the street with your kid (Reynella Reserve)**

*Massey*

# Gullies – barriers to access



**I can see the park from Rita's house but it's 700m to walk there because there's no access across the creek**



**Can't get to these houses unless I walk about 800m round the creek**

*Massey*

# Vandalism



**This bridge is great – it links two neighbourhoods and is a shortcut for me for walking to playcentre (between Tirangle Rd and new subdivision off Lincoln Park Ave – Caffreys Ave)**

**BUT the new bridge is already wrecked – vandals have kicked off all the picket rails**

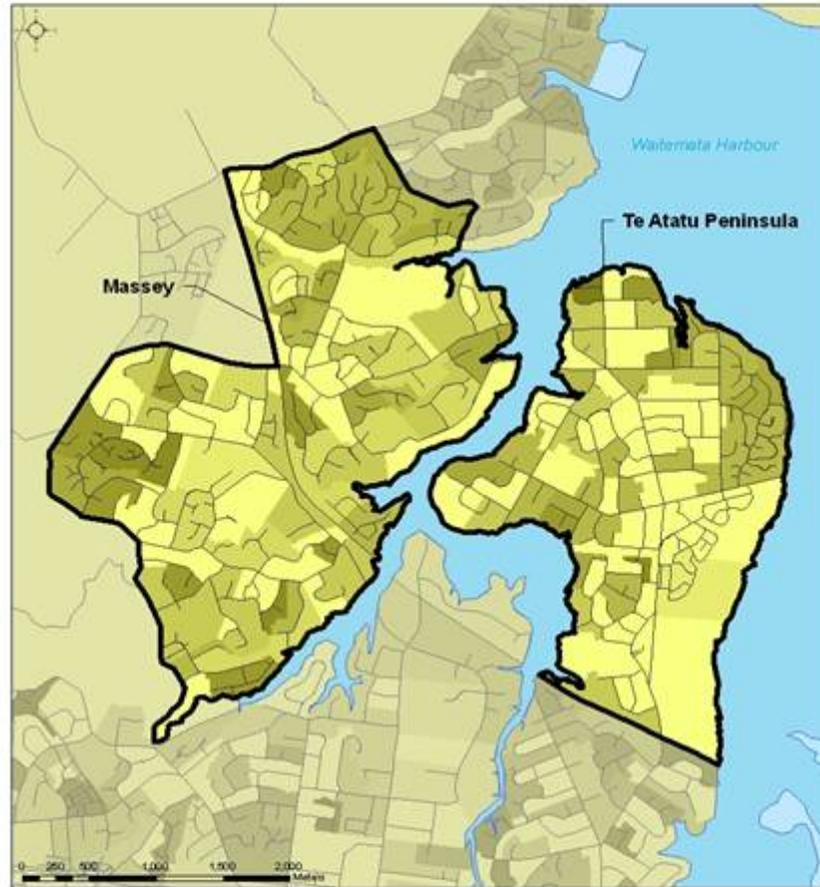


# Do the localities differ on some of the known determinants of walking?

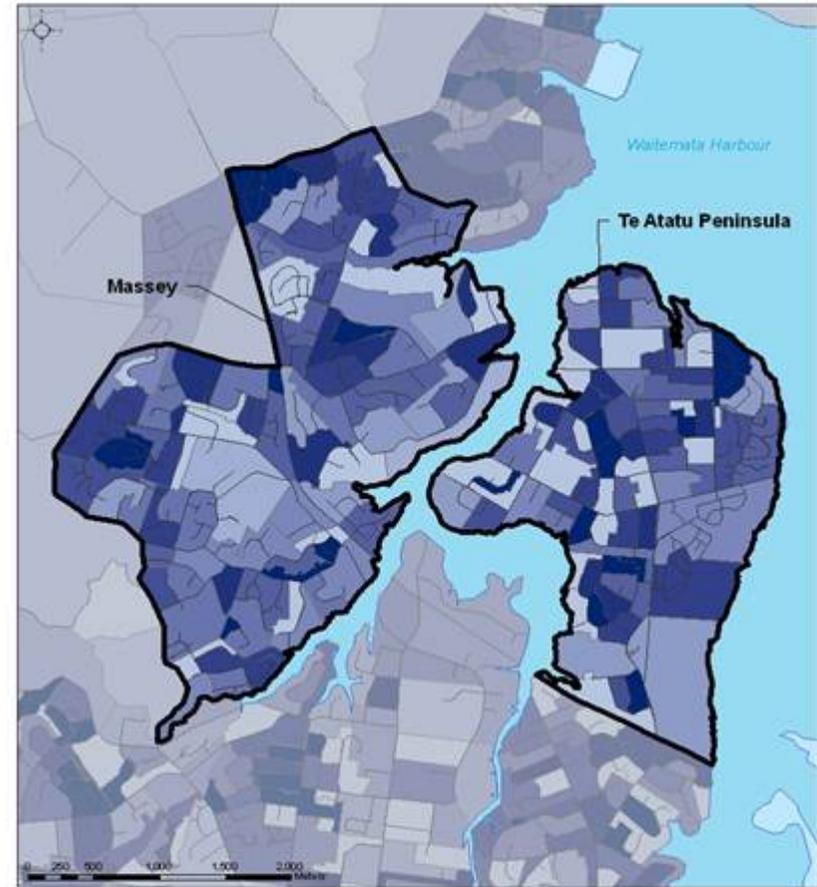
- People variables
  - NZDep
  - Car ownership
- Urban form variables
  - Dwelling density
  - Connectivity
    - Cul de sac density
    - Intersection density
  - Access to services and amenities
  - Topography
- Aesthetics
  - Waterways, parks, pylons

# Connectivity

Massey and Te Atatu Peninsula  
Cul de Sac Density

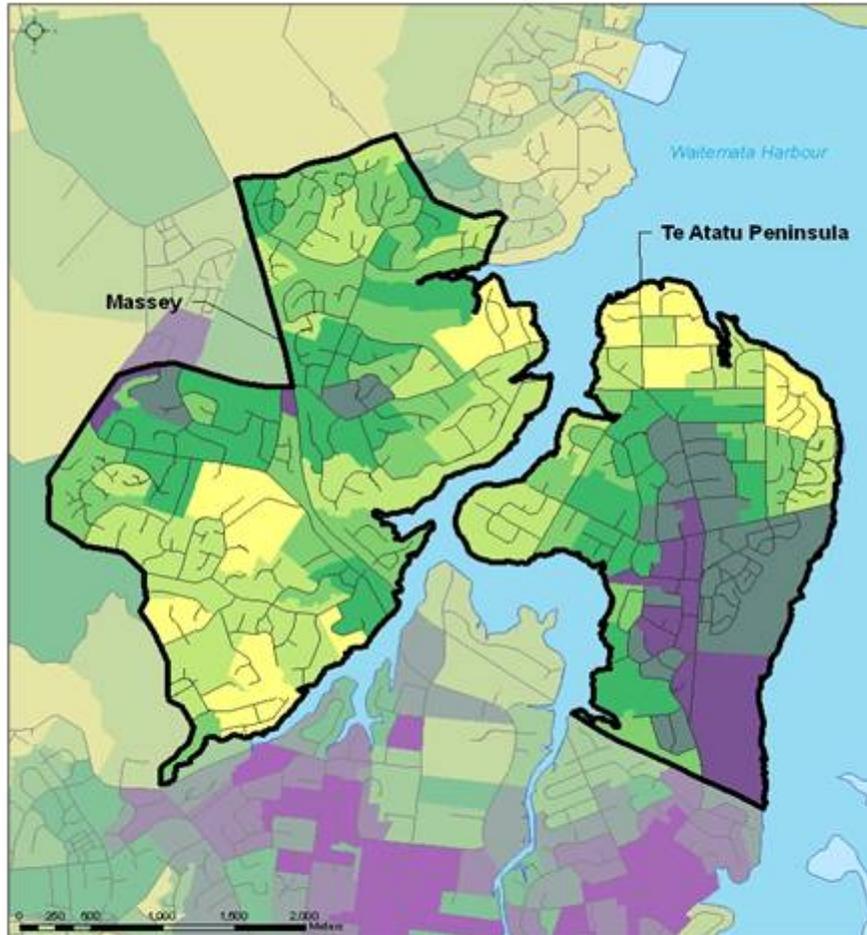


Massey and Te Atatu Peninsula  
Intersection Density



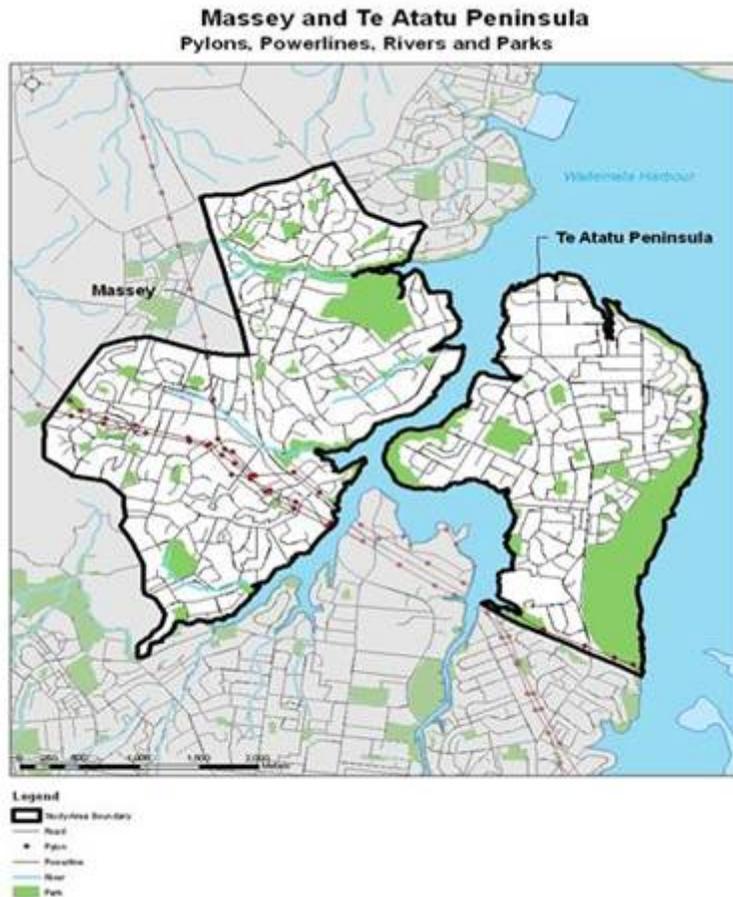
# Accessibility – services and amenities

Massey and Te Atatu Peninsula  
CRAI Accessibility



- Mean Meshblock Accessibility index score (0-27 range):
  - Massey 12.4
  - Te Atatu Peninsula 14.4
- Low accessibility overall in both localities
- Urban form
  - Te Atatu Peninsula – centrally located service hub
  - Massey – peripheral location of resources

# Aesthetics – waterways/parks/pylons



## Green space

Te Atatu Peninsula – more contiguous green spaces

Massey – many small parks

## Waterways

TAP -Coastal access at sea level

Massey – streams – potential walkways

## Pylons

Massey 2.9 per sq km

TAP - .4 per sq km

# Conclusions

- Mode choice in trips to the dairy differed
- Perceptions and experiences of locality walkability – common attributes but varied prominence in 2 localities
- Minimal differences in mapped walkability factors (other than slope and aesthetics)
- Perceptions vs objective measures – slope/connectivity/ aesthetics
- Change strategies
  - Waterways as access ways in Massey
  - Prompt response to incivilities – fragility of feelings of safety
  - Entranceways and alleyways – reducing dis-ease
  - Using ‘the weather’, fitness and cost in behaviour change strategies
  - Clustered amenity access
- BUT - time budgets – speed and convenience are hard to beat