

A stylized landscape with rolling hills in shades of green and brown. White footprints are scattered across the hills, suggesting a path or journey. The overall aesthetic is clean and modern.

Bill Rice

How we got to school?

Living Streets Aotearoa





Background

- Idea for Thesis topic
 - Parking required for new school
- Objectives of Study
 - Identify mode choice of primary school pupils
 - Factors which influence choice

How We Got to School





Study Process

- School Selection
 - Socio Economic (2 schools from each decile)
 - School Size (30 pupils to 600 pupils)
 - School Age
 - Neighbourhood types
 - Highly pedestrian connected
 - Large number cul de sacs (little connectivity)
 - Specific reasons (cover later)

How We Got to School

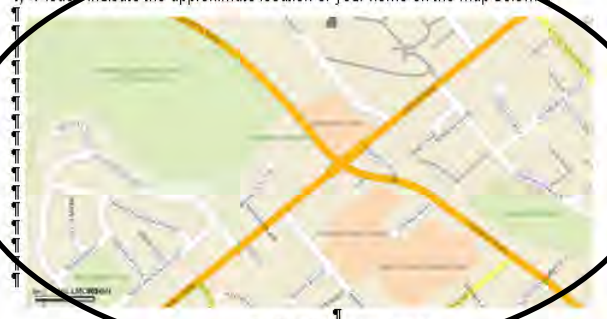




Parents Survey

Household []

1) Please indicate the approximate location of your home on the map below []



Map Provided by Wises maps []

If the location of your home is not shown on the map, please write the name of your street below: []

2) How many Primary School aged children live in your home? []

1 2 3 4 5 6 or more []

3) How many Primary School aged children attend ABC school? []

1 2 3 4 5 6 or more []

4) Please indicate the ages of each of the ABC school pupils in your home []

5 6 7 8 9 10 11+ []

5) How many cars are available for day-to-day use in your home? []

0 1 2 3 or more []

Home Location

Number of Children

Number of Cars

Ages of Children

How We Got to School





Parents Survey

Appendix B

Travel Survey Abc School

School Pupil Travel Choices

Please indicate on the table below, how each of the Abc School pupils in your home travel to and from school in a typical week.

In the example column below two pupils got dropped off at school on the way to work, one caught a bus home, and one walked home with other pupils.

		Example		Mon		Tues		Wed		Thurs		Fri	
		To	From	To	From	To	From	To	From	To	From	To	From
Car	As part of another trip (eg to or from work)	2											
	As a special trip to school												
Bus	On a dedicated school bus												
	On a scheduled public bus service		1										
Bike	With a parent or caregiver												
	With other school pupils												
	Alone												
Scooter	With a parent or caregiver												
	With other school pupils												
	Alone												
Walking	With a parent or caregiver												
	In an organised group (eg walking school bus)												
	With other school pupils		1										
	Alone												

How We Got to School





Parents Survey

Appendix B

Travel Survey Abc School

Factors Influencing Travel Choices

Please indicate the importance you place on the following factors when deciding how your children travel to school. 0 indicates that the factor is not important at all. 5 indicates that the factor is of critical importance.

+	Not Important					Very Important						
	0	1	2	3	4	5	0	1	2	3	4	5
Distance to school												
Weather Conditions												
Convenience												
Safety – "Stranger Danger"												
Safety – Road safety												
Cost												
Exercise is healthy												
Condition of footpaths												
Pleasant walking or cycling environment												
Other Factors (Please List)												

If you would be willing to be interviewed about the travel choices of your family, please tick

here , and write your contact details below

Name.....

Address.....

How We Got to School





Parents Survey

- 34% response rate
- 2300 pupils
- 20,000 trips

How We Got to School





Pupils Survey

Travel Survey *Abc School*

School Travel Survey

Abc School

Please circle the ways you got to and from school this week

On **Monday** of this week I came to school by

Car Bus Bike Scooter Walking

On **Monday** of this week I went home by

Car Bus Bike Scooter Walking

On **Tuesday** of this week I came to school by

Car Bus Bike Scooter Walking

On **Tuesday** of this week I went home by

Car Bus Bike Scooter Walking

On **Wednesday** of this week I came to school by

Car Bus Bike Scooter Walking

On **Wednesday** of this week I went home by

Car Bus Bike Scooter Walking

How We Got to School





Pupils Survey

- Possible bias in Parent Survey
- Completed by all pupils during class
- Confirm possible small bias Parent Survey

How We Got to School





Neighbourhood Survey

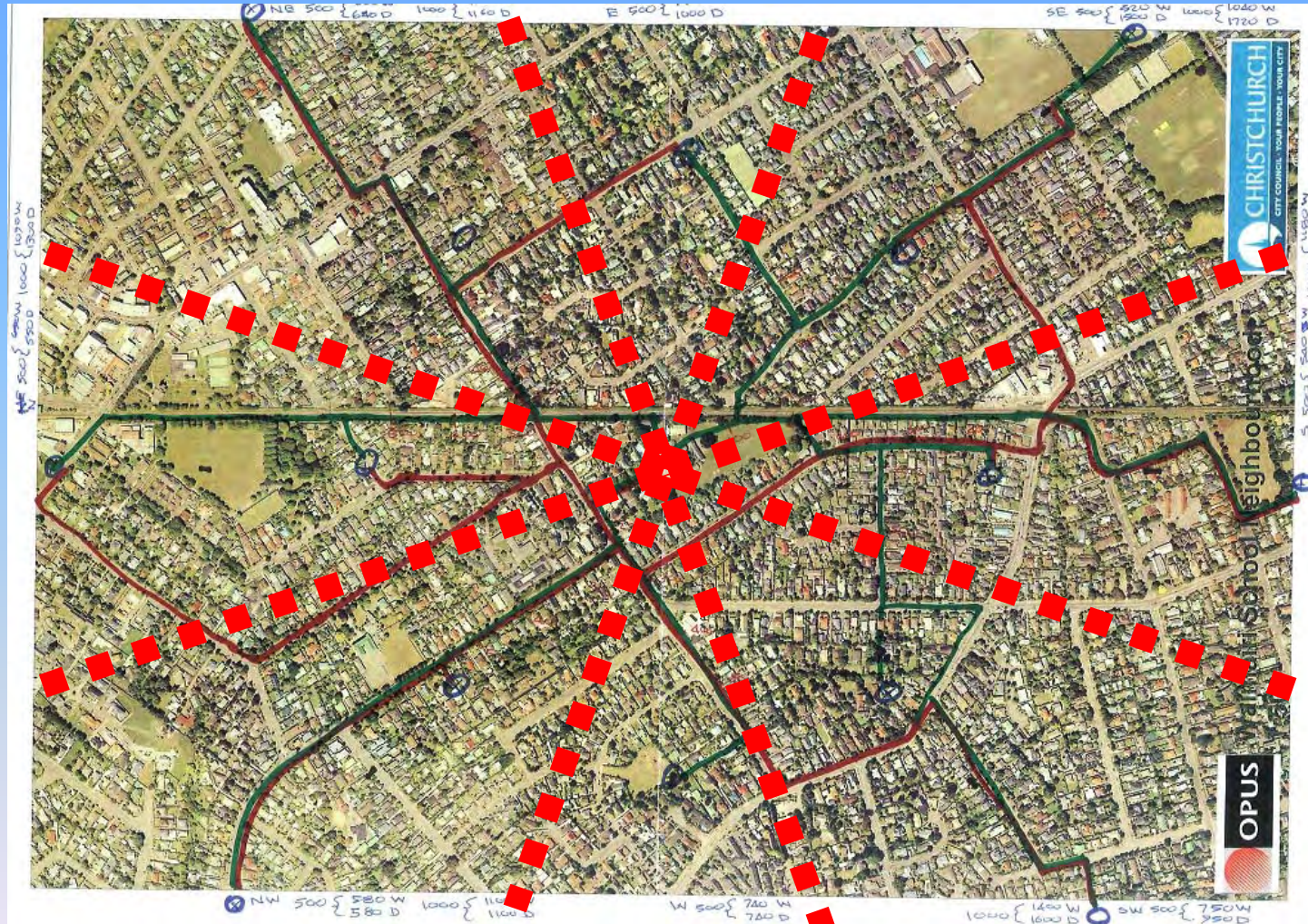
- School neighbourhood divided into 8 segments

How We Got to School





Neighbourhood Survey



How We Got to School





Neighbourhood Survey

- School neighbourhood divided into 8 segments
- Each segment surveyed for 1km from school

How We Got to School





Neighbourhood Survey

Appendix F

Walkability Assessment

School: _____ Sector: _____ Date: _____ Weather: _____

Category	0-100	100-200	200-300	300-400	400-500	500-600	600-700	700-800	800-900	900-1000
Width										
Surface Quality										
Obstructions										
Crossing Opportunities										
Support Facilities										
Path Environment										
Conflict Points										
Personal Security										

How We Got to School





Hazards



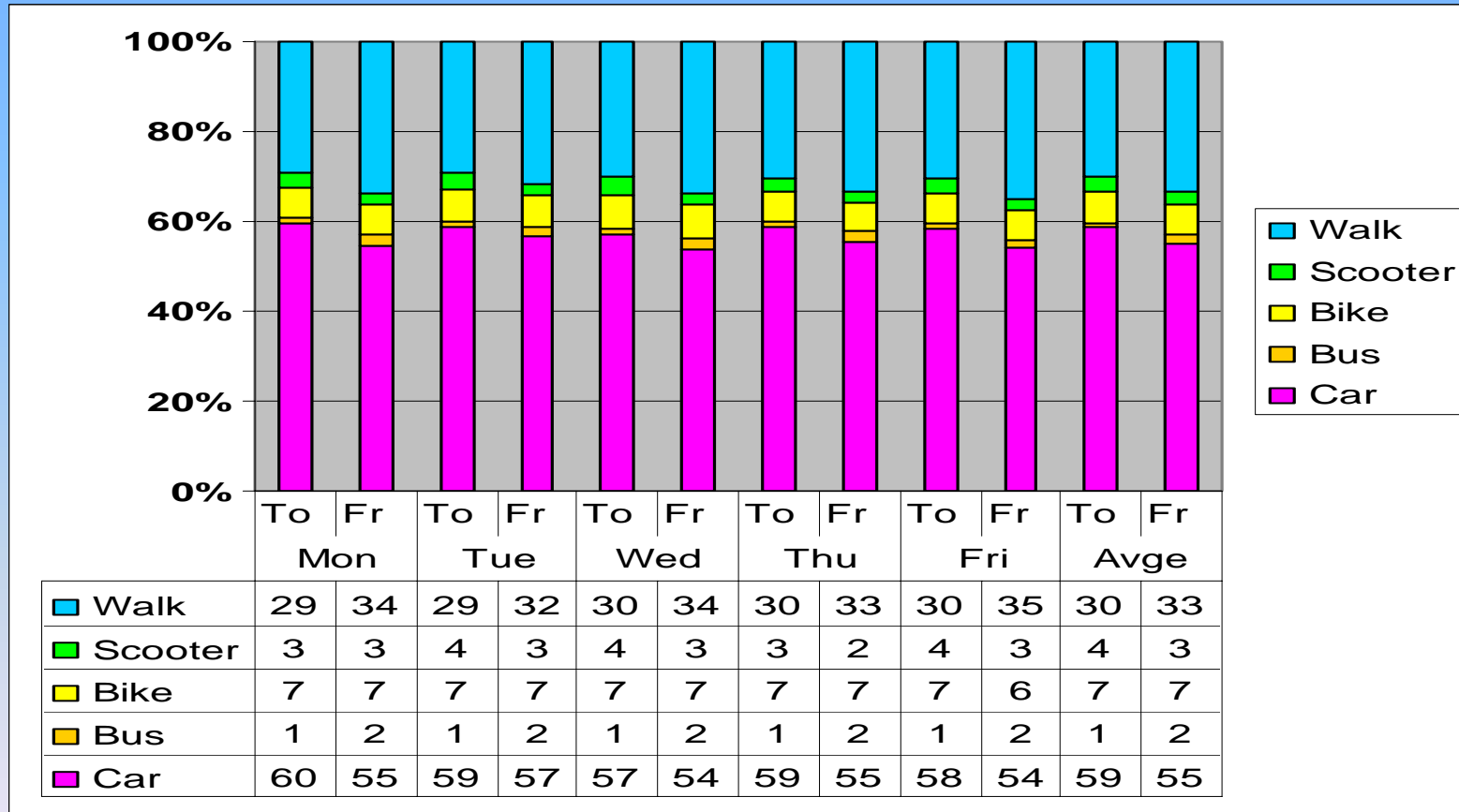
How We Got to School





Study Results

- Overall Results



How We Got to School





School Roll

- Clear Correlation
 - Increased roll – Increased car use
- As Expected
 - Greater proportion large school live further away

How We Got to School





Decile

- Not Clear Cut
 - Very low & very high decile lowest car use
 - Variable in middle
 - Some variability explained by other factors
- Not Expected

How We Got to School





Pedestrian Environment



- No apparent logical correlation
 - Increased pedestrian rating - Increased car usage?
- Other factors more important

How We Got to School





Pedestrian Distance

- Clear Correlation
 - Increased distance – Increased car usage
- As Expected

How We Got to School





Major Roads to Cross

- Less than 1km from school
- Clear Correlation
 - Increased major roads to cross – Increased car usage
- Expected

How We Got to School





Major Roads to Cross

- Less Expected.....
 - Reduction Parents walking with Children
 - Parents uncomfortable crossing road – took car

How We Got to School





School Travel Plan



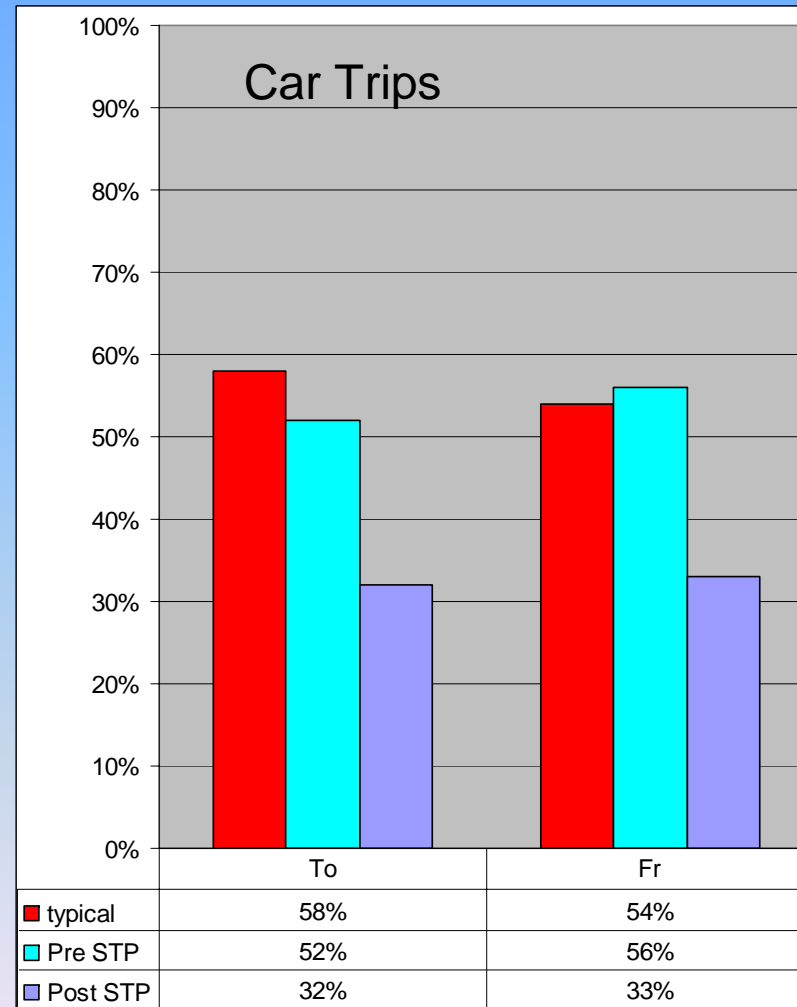
- 1 School
 - Decile 10
 - Travel Plan 3 years ago
 - Funding employ part time travel co-ordinator

How We Got to School





School Travel Plan



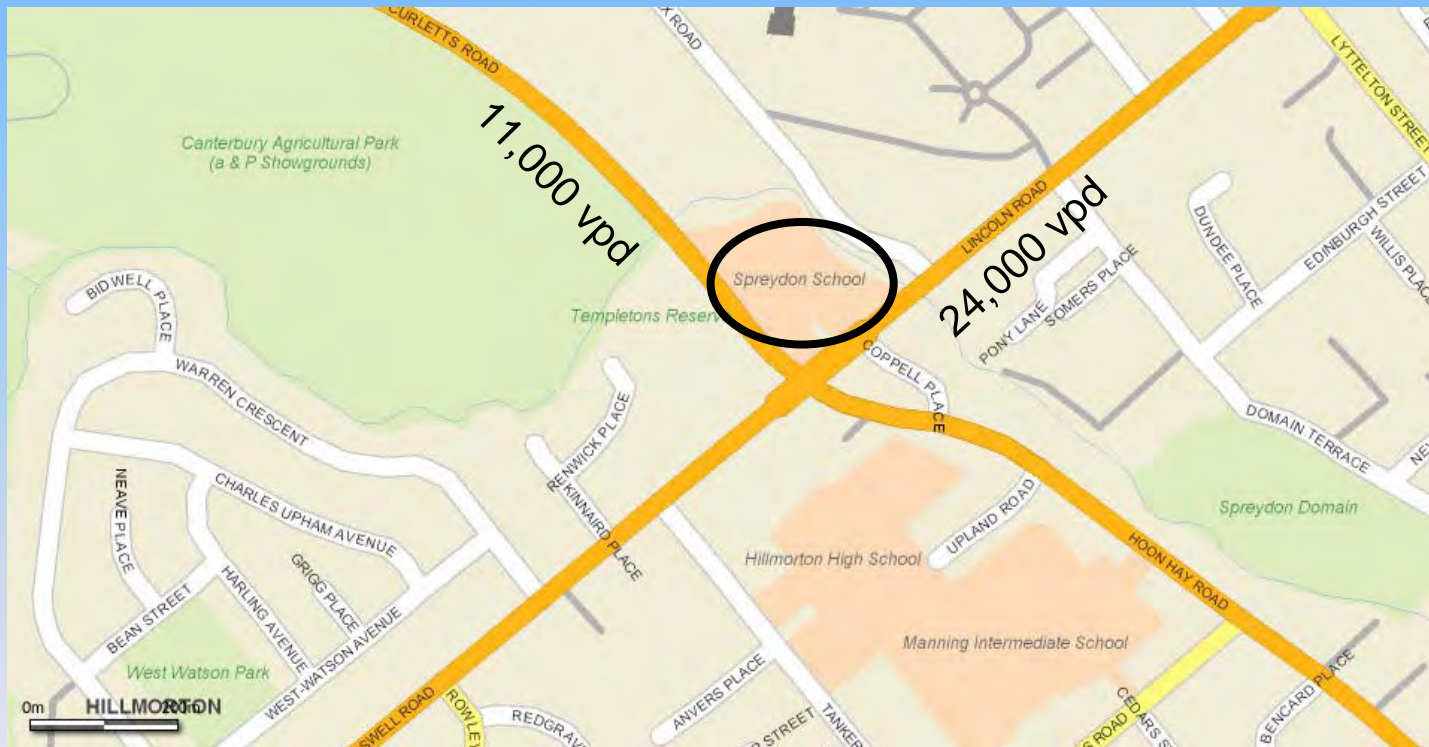
How We Got to School





Specific Schools

- Spreydon School

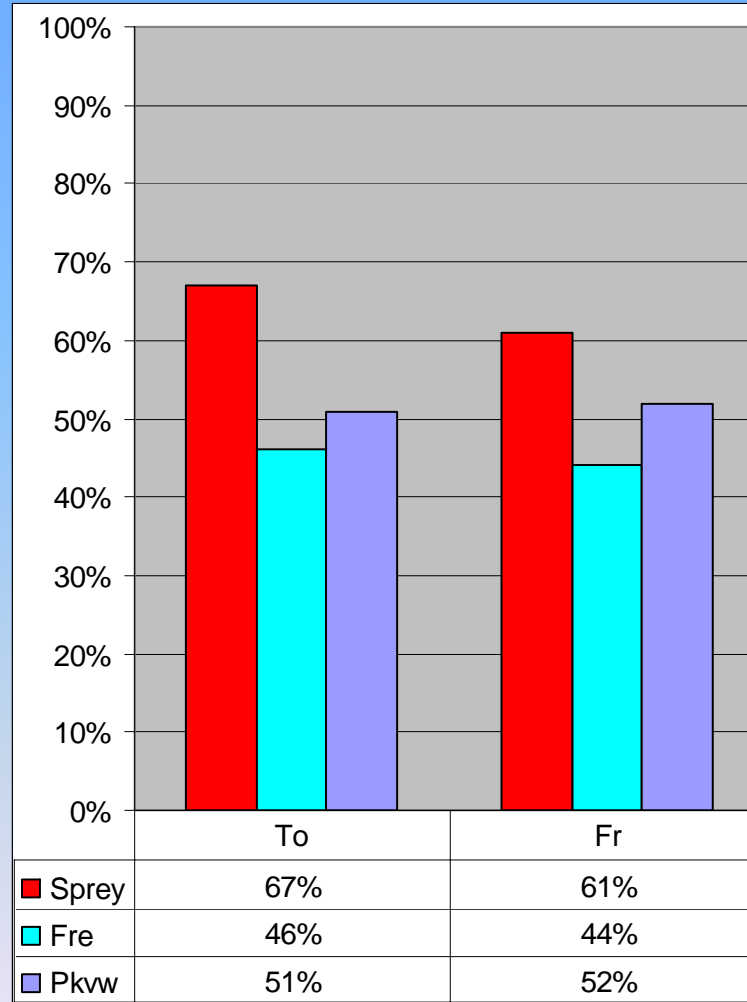
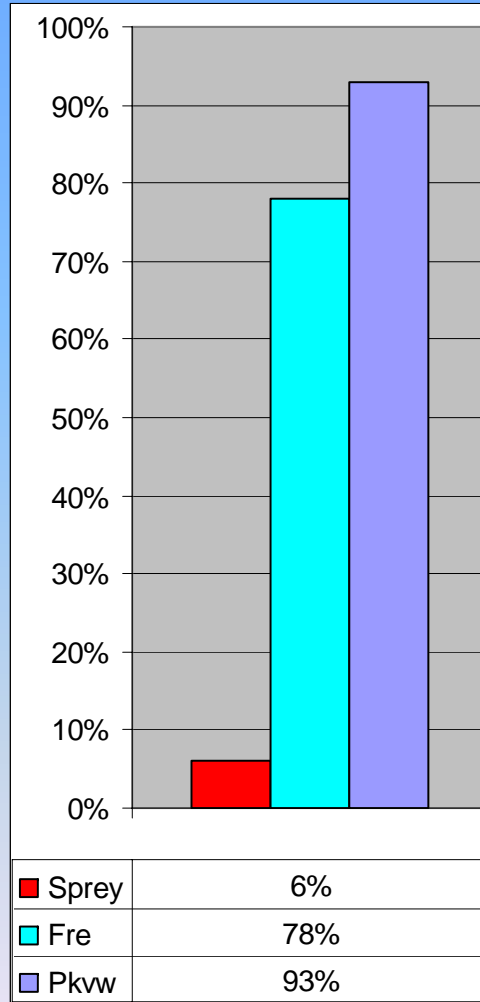


How We Got to School





Spreydon School



No Mjr Rd to Cross

Car Usage

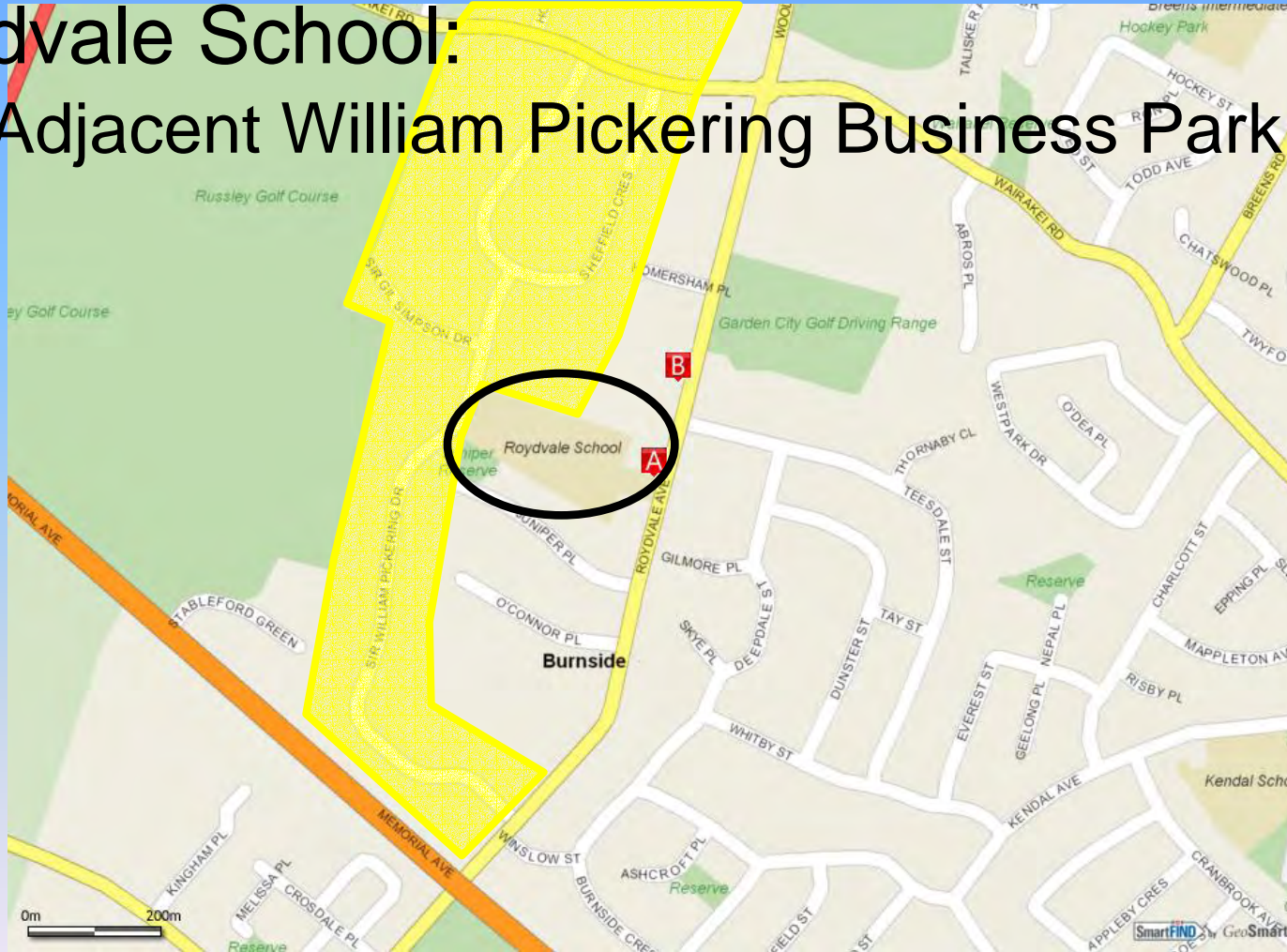
How We Got to School





Specific Schools

Roydvale School:
– Adjacent William Pickering Business Park



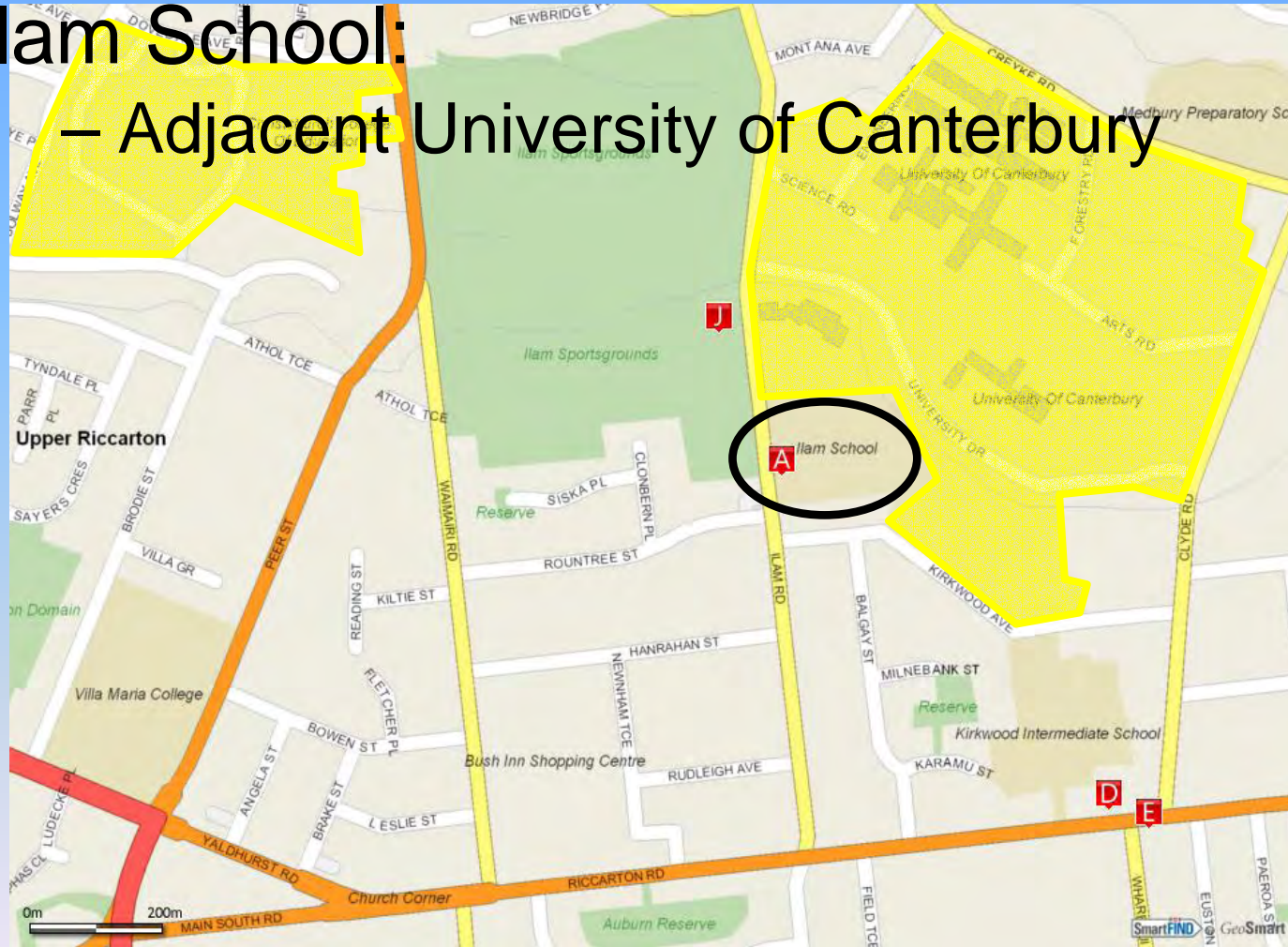
How We Got to School





Specific Schools

Ilam School:
– Adjacent University of Canterbury

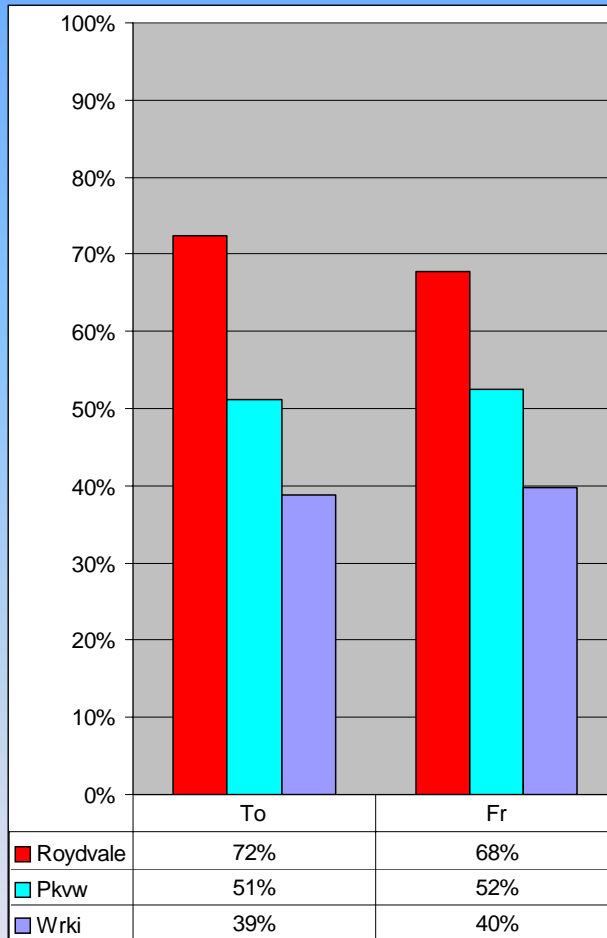


How We Got to School

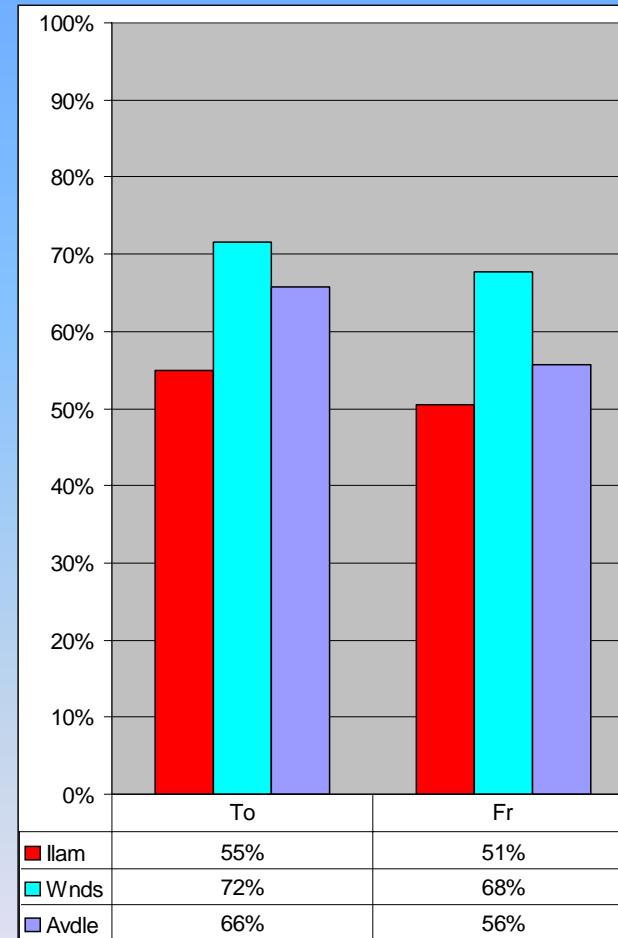




Employment Proximity



Roydvale



Ilam

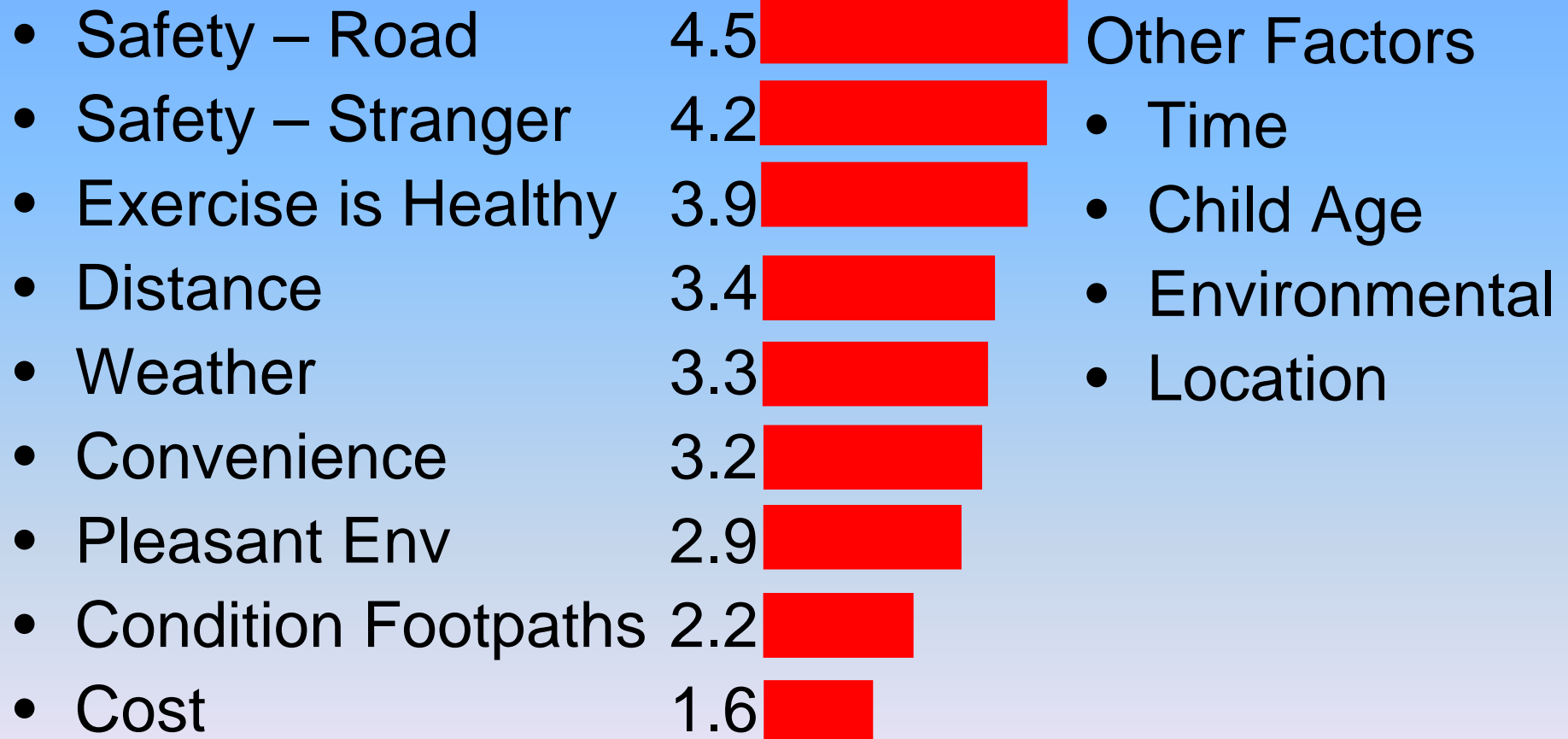
How We Got to School





Importance of Factors

(out of 5)



How We Got to School





Conclusions

- Family travel choices complex decision
 - Safety Critical
 - Perception of safety important

- Social solutions to engineering issues

How We Got to School





Recommendations



- Transportation Issues considered early in school location
 - Geographic size of catchment
 - Pedestrian connectivity
 - Ability to provide safe routes to school
- And “Rationalising” schools

How We Got to School





- Questions / Discussion

How We Got to School

