

OPUS UNIVERSITY OF CANTERBURY

Bill Rice

How we got to school?

How We Got to School

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Background

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

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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)

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Parents Survey

Home Location

Number of Children

Ages of Children

Number of Cars

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Parents Survey

	Distance to school		Weather Conditions		Congestion		Safety - "Danger Zones"		Safety - Road width		Cost		Exercise is healthy		Condition of property		Flexibility of walking to school		Other Factors (Please List)	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Distance to school																				
Weather Conditions																				
Congestion																				
Safety - "Danger Zones"																				
Safety - Road width																				
Cost																				
Exercise is healthy																				
Condition of property																				
Flexibility of walking to school																				
Other Factors (Please List)																				

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Parents Survey

	Not important		Very important			
	0	1	2	3	4	5
Distance to school						
Weather Conditions						
Congestion						
Safety - "Danger Zones"						
Safety - Road width						
Cost						
Exercise is healthy						
Condition of property						
Flexibility of walking to school						
Other Factors (Please List)						

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Parents Survey

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

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Pupils Survey

School Travel Survey
 ABC School

Please indicate the mode you get to and from school for each

On Monday of this week I came to school by

On Monday of this week I went home by

On Monday of this week I came to school by

On Monday of this week I went home by

On Monday of this week I came to school by

On Monday of this week I went home by

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Pupils Survey

- Completed by all pupils during class
- Possible bias in Parent Survey
- Confirmed v. small bias
 - o 1% to school
 - o 2% from school

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Neighbourhood Survey

- School neighbourhood divided into 8 segments
- Pedestrian Environment surveyed & rated

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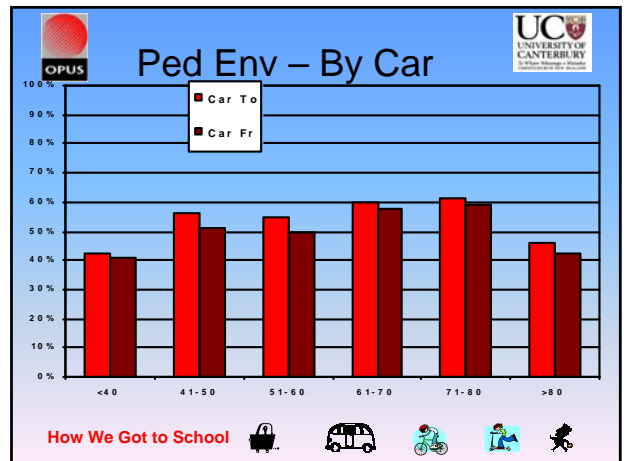
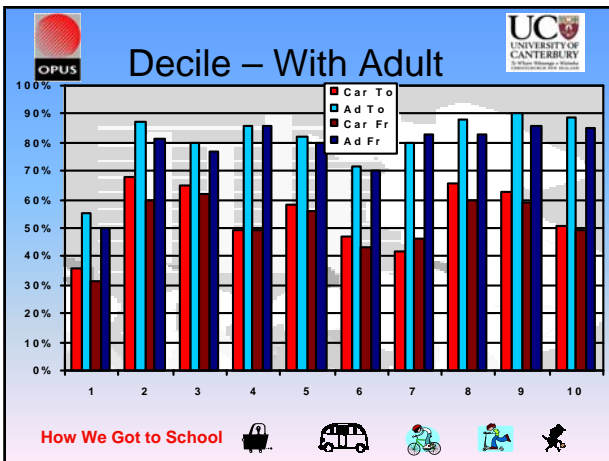
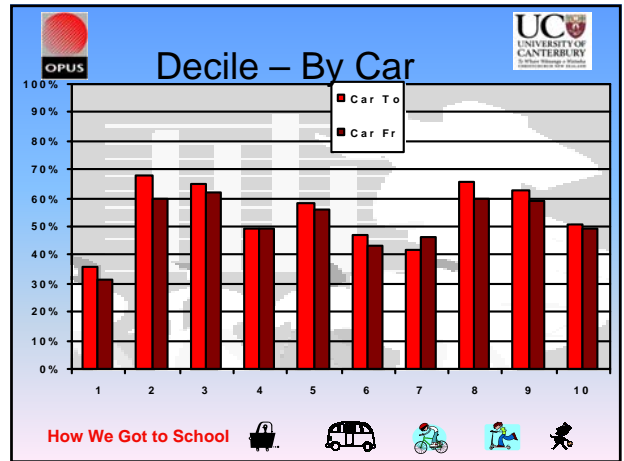
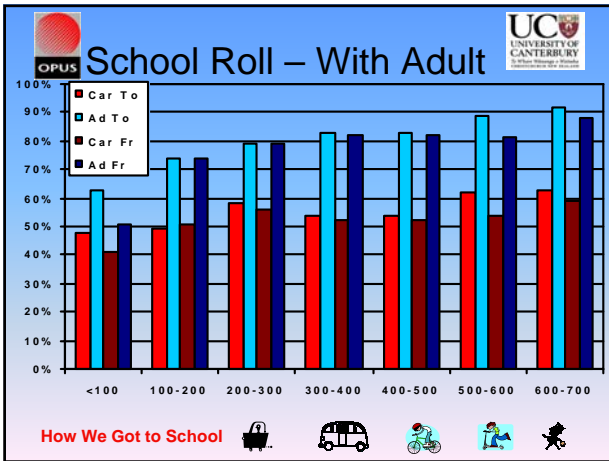
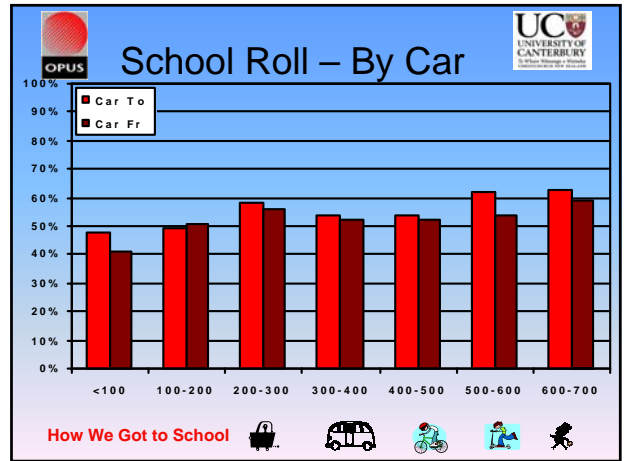
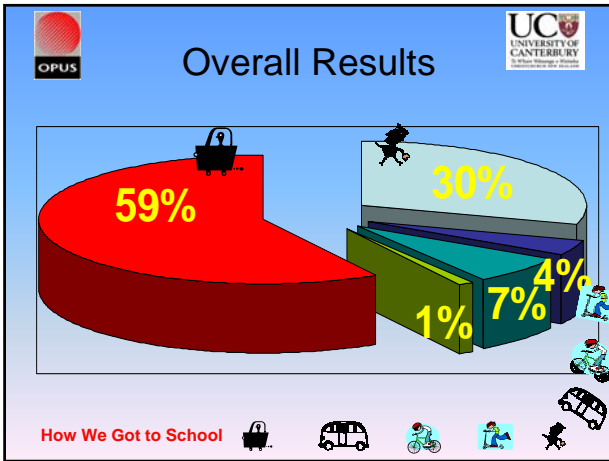
Hazards

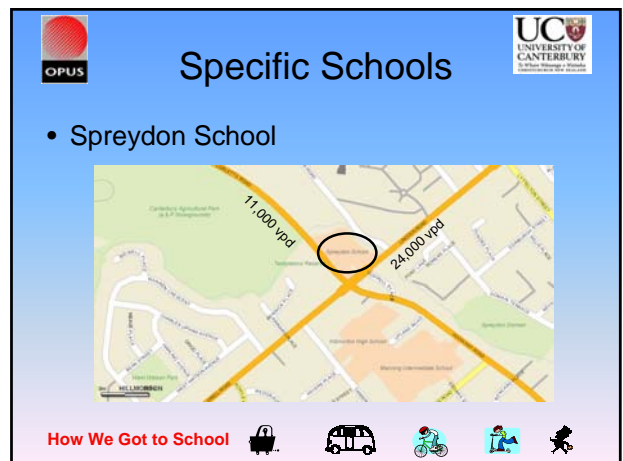
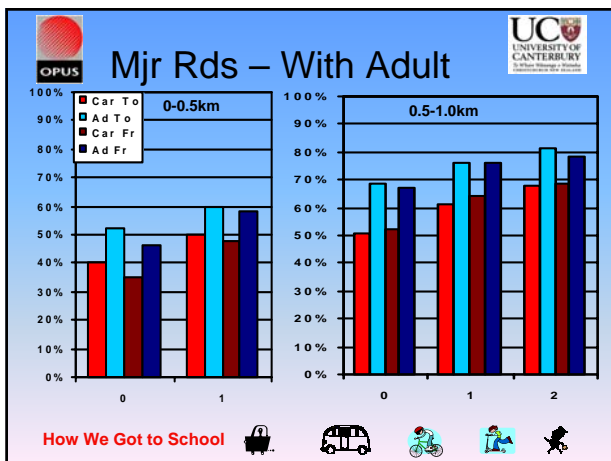
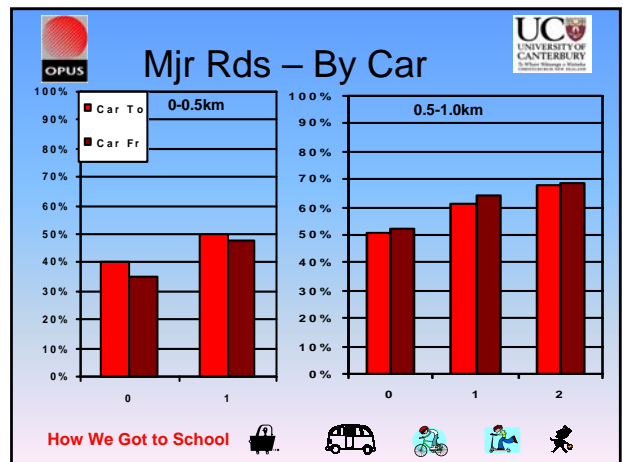
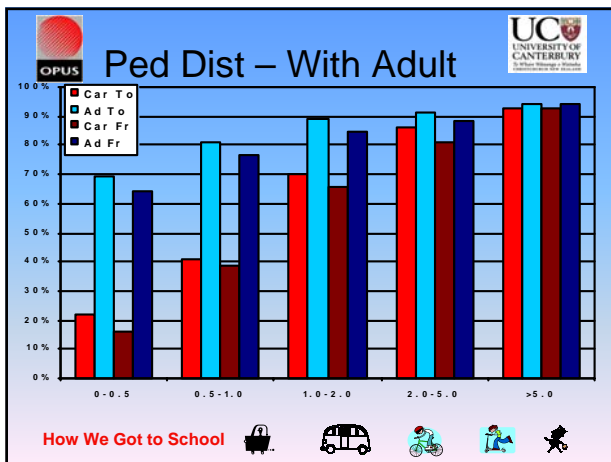
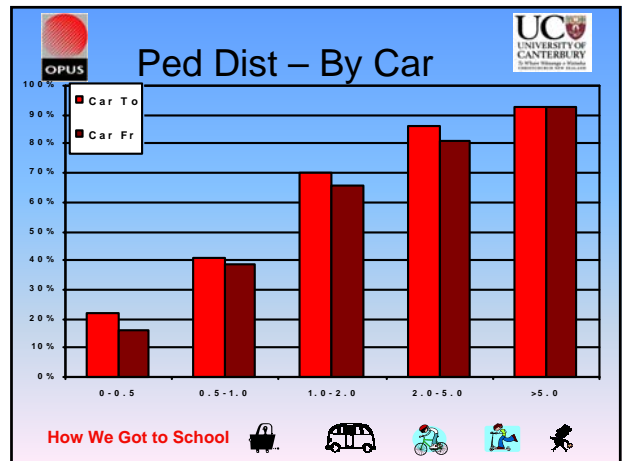
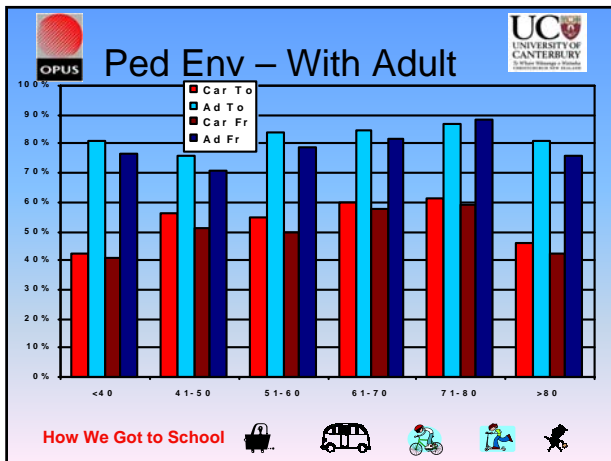
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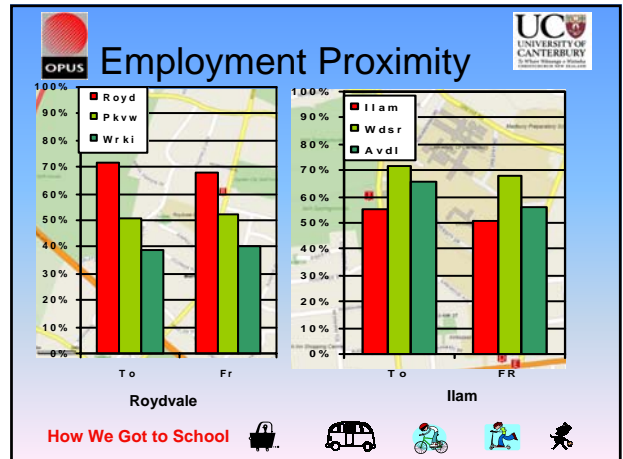
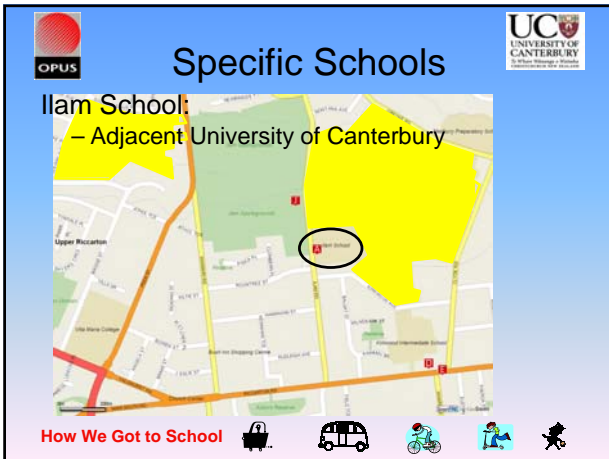
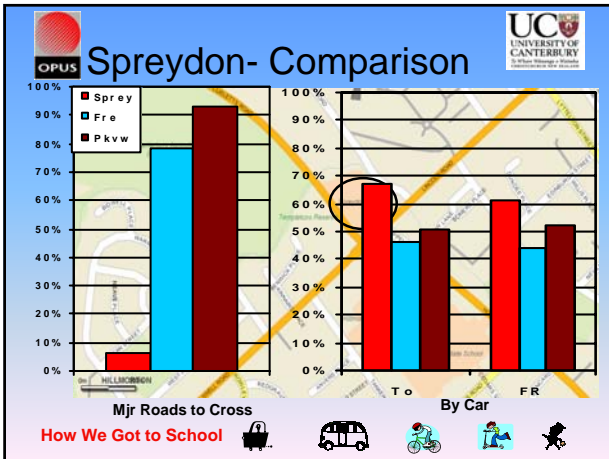
Importance of Factors
 (out of 5)

• Safety – Road	4.5	Other Factors
• Safety – Stranger	4.2	• Time
• Exercise is Healthy	3.9	• Child Age
• Distance	3.4	• Environmental
• Weather	3.3	• Location
• Convenience	3.2	
• Pleasant Env	2.9	
• Condition Footpaths	2.2	
• Cost	1.6	

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OPUS Conclusions

- Family travel choices complex decision
 - Safety Critical
 - Perception of safety important
- Social solutions to engineering issues

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OPUS Recommendations

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

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• Questions / Discussion

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