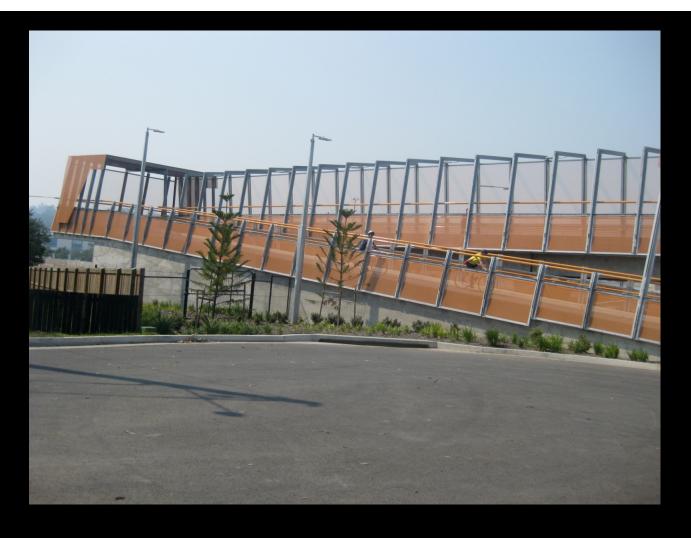
Using Theories of Behavior Change to Explain Teenagers' Attitudes to Cycling

Jillian Frater, PhD Candidate, University of Canterbury, Christchurch, New Zealand

Is Cycling too Uncool for School?





Overpass for cyclists and walkers – Pacific Highway, Brisbane, Australia



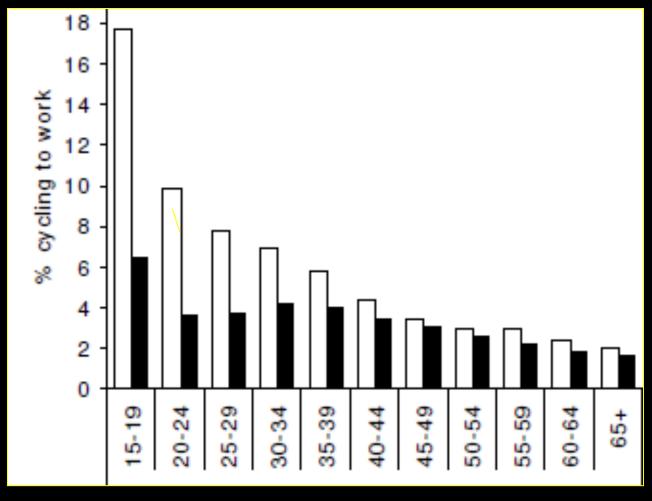
The brain

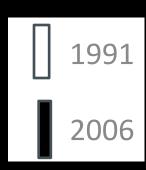
"Christchurch is the city of cycling, with, more people biking here than any other city in New Zealand."

Opportunities



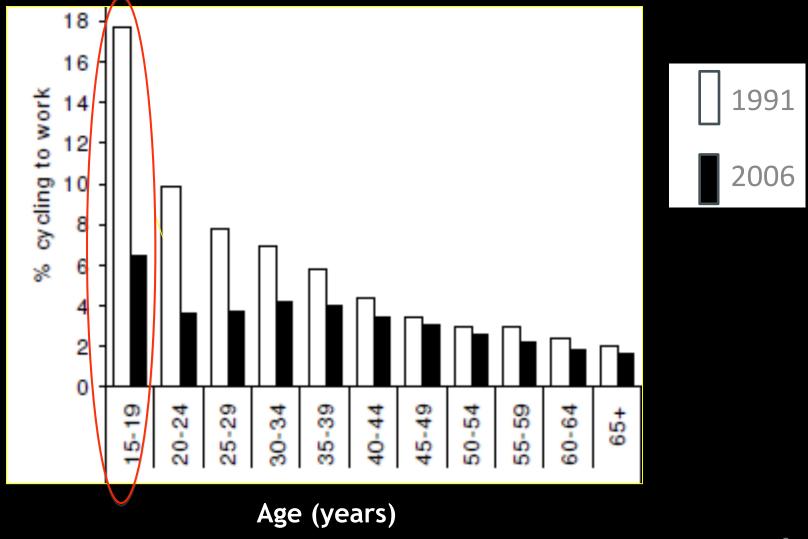
Proportion of males in NZ who cycled to work on census day by age 1991-2006





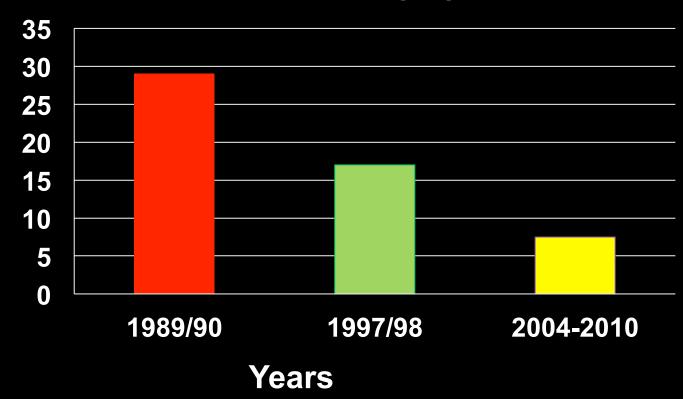
Age (years)

Proportion of males in NZ who cycled to work on census day by age 1991-2006



Travel to school by bicycle- ages 13-17 (girls and boys)

Journeys per person per year



Source: NZ Household Travel Survey – Comparing Travel Modes –Ministry of Transport



Bike racks in the 1980s

H Mackie (2009). 'I want to ride my bike': overcoming barriers to cycling to intermediate schools, NZ Transport Agency research report 380.



Bike rack - 2008

H Mackie (2009). 'I want to ride my bike': overcoming barriers to cycling to intermediate schools, NZ Transport Agency research report 380.

Improve people's health

Improve Social Capital

Reasons to increase the mode share of cycling

Reduce the effects of Peak Oil

Decrease the rate of Global Warming Improve Air Quality

Reduce Congestion

Two Theories of Behavior Change

Theory of Planned Behavior

Prototype Willingness Model

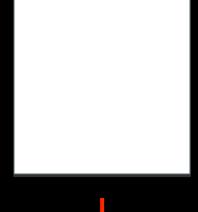
Azjen (1991)

Gerrard et al. (2008)

Theory of Planned Behavior **Behavioral Intention** Behavior 14

Theory of Planned Behavior







Attitudes

Behavioral Intention



Behavior

Theory of Planned Behavior



Attitudes



Subjective Norms

Behavioral Intention



Theory of Planned Behavior







Attitudes

Subjective Norms

Perceived
Behavioral Control

Behavioral Intention



Prototype Willingness Model







Attitudes
(percieved vulnerability)

Subjective
Norms
(peer's
behavior)

Risk Images

Prototype Willingness Model



Attitudes



Subjective Norms



Risk Images

Behavioral Intention



Behavioral Willingness

Risk Behavior



Attitudes



Subjective Norms

Potential barriers to cycling for teenagers



Perceived Behavioral Control





Risk Images

Explaining Teenagers' Attitudes to Cycling



Survey



Staff interviews



Focus Groups

Subjective Norms

Image





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Proportion of people who walked to work on census day by age and gender 1991-2006

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