Christchurch City Council Cyclist Survey Project





Shane Turner, Beca Paul Durdin Michael Ferigo, Christchurch City Council



Project Objectives

- n Determine current demand cycle network
- Segregate commuter, recreation, other types of cyclists
- n Identify where cycle facilities are required

n Identify problem areas for cyclists

n Update the 1999 cycle network plan



Engagement of 400 cyclists Weeklong travel survey of cycling activity

n Data:

- Entered, mapped and analysed

Participant Recruitment

- Randomly selected telephone numbers
- n Evenly distributed throughout city wards
 Minimise bias of trips by residential address
 n Participants aged 16 +

Data Gathering

n Self-completion travel diary

- Date, time, origin, destination, route, purpose, problem locations etc.
- n Regular contact with recruitment consultant
- n Split into two periods, as May was a wet month. Enabled comparison of data between different months.

Data Entry & Mapping

n Custom interface in database
 n Pick lists to minimise data entry error
 n Creation of Unique ID to allow data to be connected to spatial data
 - Concatenation of person ID, date & trip number = Route ID
 n Mapped using GIS software



Key Findings

- n 417 survey participants made 3,927 cycling trips
- n Trip purpose (main types):
 - Commuter = 48%
 - Recreation = 29%
- n Average trip time = $26 \text{ minutes} \sim 6 9 \text{ km}$

Relationship with Existing Network

- n Trips occur mainly on arterial roads.
- Some arterial roads with high cycle demand have no cycling facilities e.g. Riccarton Rd, Papanui Rd.
- Some arterial roads have lower than expected demand.
 - Why?
 - Lack of cycling facilities = deterrent to safe cycling
- Cycle paths attract demand e.g. Rolleston Ave between Antigua boatsheds and Museum.

Trip Times

- No overall difference between May & October
- n Commuter Trips = 20 minutes (no variation in time of year)
- n Education Trips = 18 minutes (15 min avg in May vs. 25 min avg in Oct)
- n Recreation Trips = 59 minutes (lower in Oct)







Problem Locations

n Mapped as Point or Route Locations

n Point Locations

- Deans / Riccarton roundabout
- Ferrymead Bridge
- n Route Locations
 - Bealey Ave, Blenheim Rd, Marine Pde, Moorhouse Ave & Riccarton Rd



Cause of Problems

MAINTENANCE

- Loose gravel
- road works signage
- Rough surfaces

INFRASTRUCTURE

- Broken glass n Tram tracks
 - n Traffic calming
- Road works and n Lack of cycle lanes
 - n Pinch points
 - n Poor street lighting

BEHAVIOUR

- n Vehicles (incl. buses) stopping in cycle lanes
- Parking outside schools

Use of Survey Information

- Input for updating the existing Cycle
 Network Plan
- n Identify and prioritise cycle capital expenditure
- n Input to major projects e.g. SWAP
- n Complements cycle count programme
- n Monitoring tool available for other projects
- Base to periodically add future surveys to maintain awareness of any changing demands