## Christchurch City Council Cyclist Survey Project





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### **Project Objectives**

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

Identify problem areas for cyclists
Update the 1999 cycle network plan

### Procedure

# Engagement of 400 cyclists Weeklong travel survey of cycling activity

Data:

Entered, mapped and analysed

### **Participant Recruitment**

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

### **Data Gathering**

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

### **Data Entry & Mapping**

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



### **Key Findings**

- 417 survey participants made 3,927
   cycling trips
- Trip purpose (main types):
  - Commuter = 48%
  - Recreation = 29%
- Average trip time = 26 minutes ~ 6 9km

### **Relationship with Existing Network**

- 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
- Commuter Trips = 20 minutes
   (no variation in time of year)
- Education Trips = 18 minutes
   (15 min avg in May vs. 25 min avg in Oct)
- Recreation Trips = 59 minutes
   (lower in Oct)

#### Commuter Journey Time



#### **Education Journey Time**





### **Problem Locations**

### Mapped as Point or Route Locations

### Point Locations

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



### **Cause of Problems**

#### MAINTENANCE

- Loose gravel
- Road works and Lack of cycle road works signage
- Rough surfaces

#### **INFRASTRUCTURE**

- Broken glass Tram tracks
  - Traffic calming
    - lanes
  - Pinch points
  - Poor street lighting

#### **BEHAVIOUR**

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

### **Use of Survey Information**

Update the existing Cycle Network Plan Identify and prioritise cycle capital expenditure for the next 5 years Input to major projects e.g. SWAP Complements cycle count programme Acts as a monitoring tool Base to periodically add future surveys to maintain awareness of any changing demands