



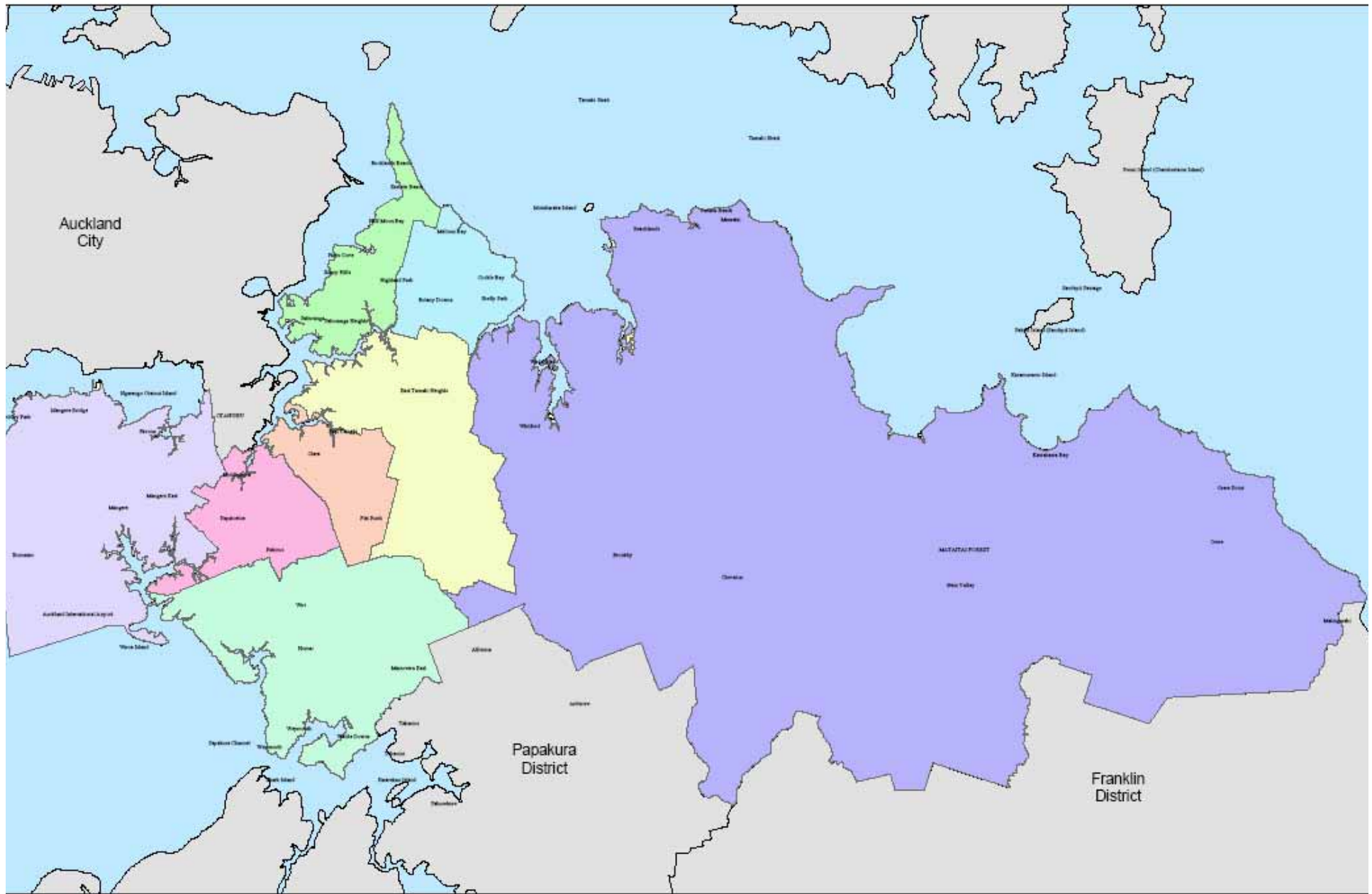
# Beyond Austroads Part 14 & The NZ Supplement – the Manukau approach to the construction and maintenance of cycle lanes

Proudly presented by: Steve Patton - Manukau City Council & Rachel Algar - Opus International Consultants Ltd

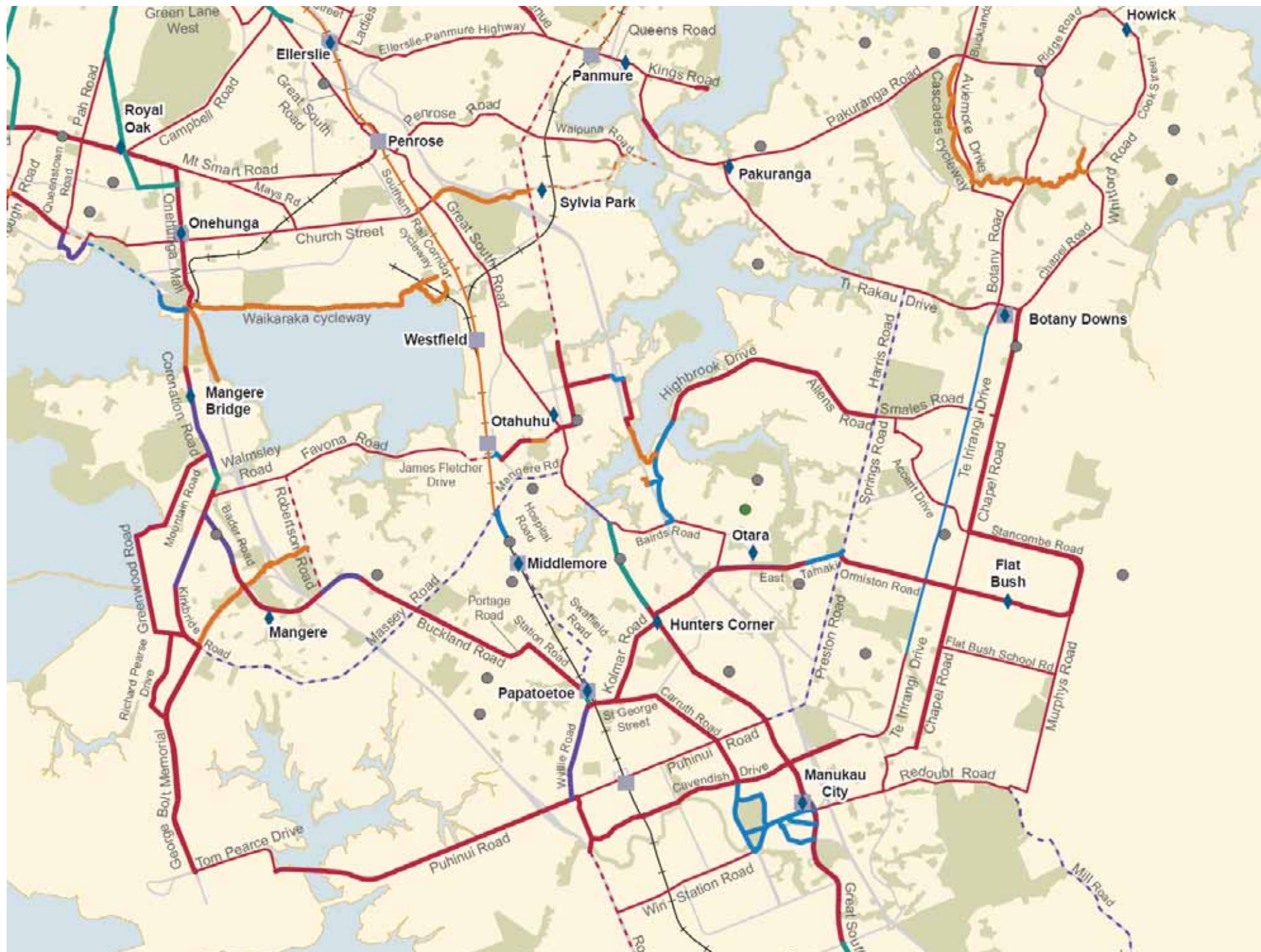


# Manukau - setting the scene

- Fast expanding city
- Many roading schemes
- Low levels of commuter cycling but great potential
- Popular recreational routes
- Flat Bush - our flagship project







# The Manual - why necessary?

- Mistakes of the past
- Austroads and Supplement not enough
- Benefit of bringing it all together
- To add a Manukau flavour
- To help consultants and planners
- We're all learning...!!

# Further Pressures

- Getting value for money
- Capital spend \$1.5m+ pa
- Increasing maintenance spend
- Meeting cyclist expectations
- Meeting funding requirements



Te Kaunihera o  
**MANUKAU**  
City Council

# Common problems with cycle lanes...





# Hazards





# Cesspits & manholes



# Signage



# Parking





# Some concerns from cyclists

Multi-laned roundabouts are scary – we need options for underpasses!



Broken glass on the roads esp. in the weekends – need for more road sweeping



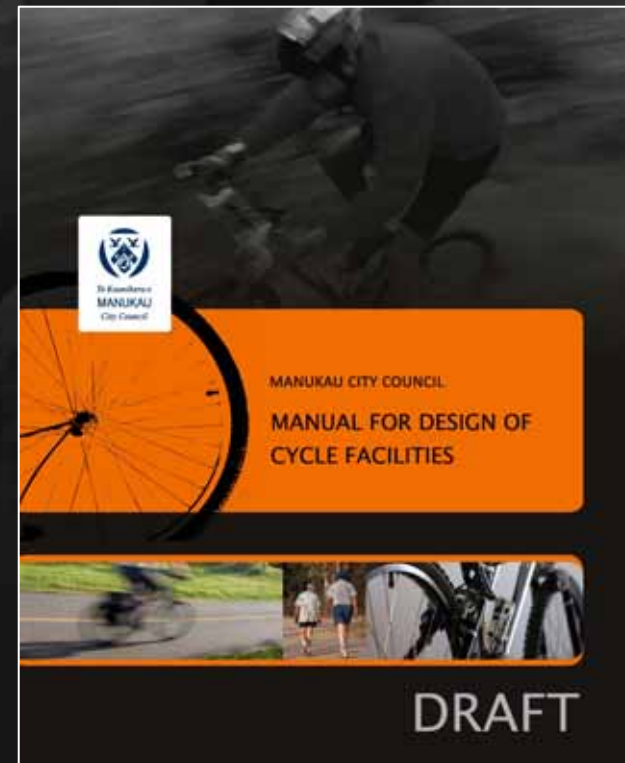
During road works often the placement of cones forces cyclists out into the traffic making it unsafe





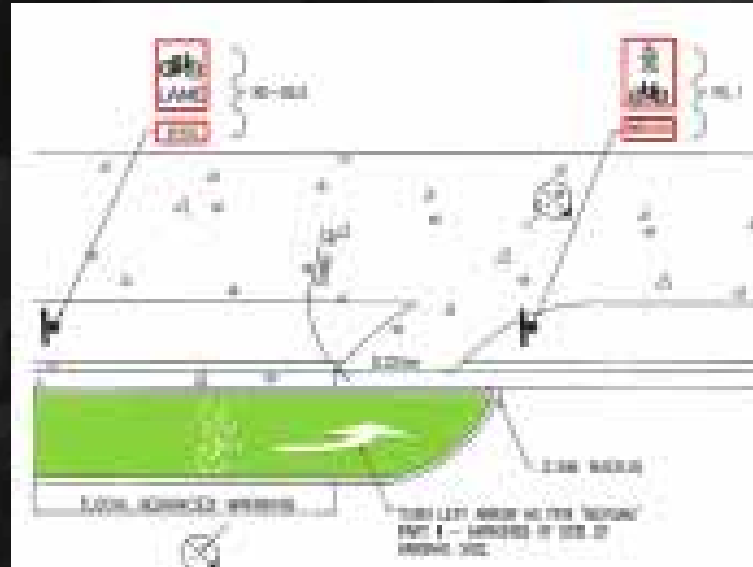
# Manual contents

- Land Transport Rules
- Design Standards
- Design Requirements
- Maintenance
- Audit Process
- Consultation
- Cycle Parking
- Important References



# Design elements

- On to off-road transitions

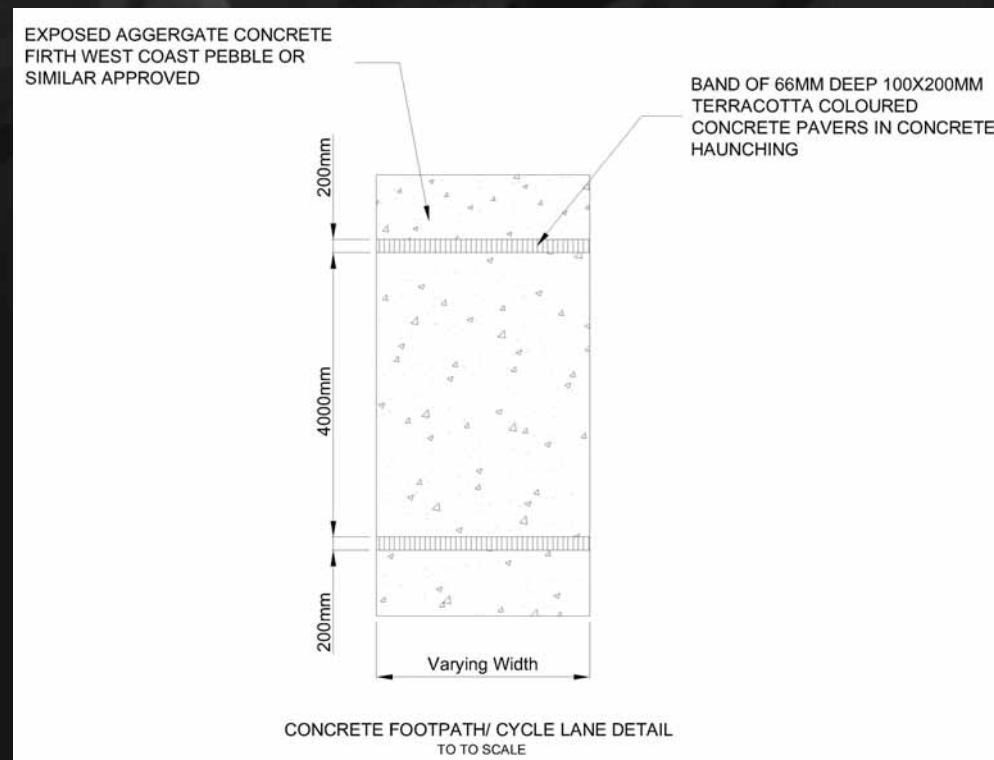


- Cesspits



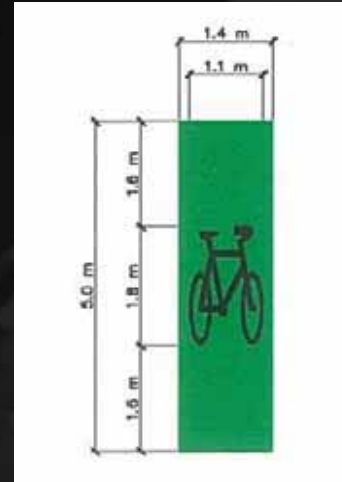
# Pavement Surfaces

- Manukau City Centre - higher grade surface



# Signage

- Regional standard for signage & markings



- Cyclist ahead warning signs





# Maintenance – response times

	Urgent	Routine
Planned inspections		Weekly
Potholes	4 hrs	1 day
Depressions/wheel path ruts	4 hrs	2 days
Edge break	1 day	1 wk
Flushing/bleeding/scabbing/cracking	1 wk	6 days
Mowing		1 wk
Vegetation		2 wks
Regulatory signs	1 day	1 day
Other signs		2 wks
Graffiti	1 day	1 wk

# Parking

- Parking enforcement
- Auckland Regional Bicycle Parking Guidelines



# Consultation

## Consultation Plan:

- Local residents - owners and occupiers, including side roads
- User groups (cyclists) – network planning & preliminary design
- Elected representatives - Input and sign-off of schemes

# Monitoring & Auditing

- Cycle route inspections
- Cycle safety audits – pre & post construction
- Bicycle counts
- Complaints through Council's Call Centre





# Measuring success?

- Thinner audit documents
- More cyclists
- Greater appreciation of cyclists needs

# Key issues for the future

- A better approach to maintenance
- Cost effective off-road lighting
- Further development & promotion of the Manual

Thank you, happy cycling!

