

greater WELLINGTON THE REGIONAL COUNCIL



EXECUTIVE SUMMARY

The vision of the Draft Regional Cycling Strategy is "the evolution of a cycling culture where cycling is a recognised and valued transport mode that is safe, accessible and pleasant throughout the region".

Process

The Strategy has been developed with a working group comprised of representatives from Greater Wellington Regional Council Access Planning, the regions Territorial Authorities, Transit New Zealand, the Land Transport Safety Authority (Wellington Region), Cycle Aware Wellington and the Regional Public Health Service. The Regional Land Transport Committee has approved the draft to be released for public consultation. The final date for submissions will be 20 October 2003. The final Strategy is expected to be released in December 2003.

Problem Framing

An extensive problem framing exercise was undertaken in the preliminary stages of strategy development. It showed that cycle use in the Wellington region is declining and currently comprises only 2% of all trips. Further, cycling is less safe than travelling by car, bus or as a pedestrian. Drivers were shown to be at fault for the majority of crashes resulting in cyclist casualties.

A high standard of accessibility is desired throughout the region, however significant deficiencies in the regional network can be clearly identified. Further barriers to accessibility exist with the limited integration of cycles with public transport.

Competition for funding is inherent in road controlling authorities and cycling has not traditionally been a priority in the funding allocation process. Greater Wellington has the opportunity to have an advocacy role in seeking increased cycle planning and funding at both national and local levels.

The Strategy

The Strategy seeks an interactive culture among agencies for the advancement of cycling in the Wellington region with an action programme linked directly to the problem framing above. The objectives of the Strategy are:

- 1. Create an advocacy ethic that facilitates coordination among lead agencies.
- 2. Enhance cycling safety throughout the region via education initiatives
- 3. Increase accessibility, integration and safety for cycling.
- 4. Improve awareness of all forms of cycling.

Cycling conditions are affected by a number of agencies and the Strategy intends to clarify and coordinate the roles of these agencies in working toward the vision and objectives. Three critical interventions are outlined:

- 1. increased political advocacy by Greater Wellington at local and central government levels,
- 2. development of Road Controlling Authority cycling work programmes, and

3. establishment of a Regional Cycling Coordinator to enable the delivery of educational and promotional interventions.

The Strategy action plan extends to 2006/07 and will be monitored against performance measures linked to specific interventions. An annual monitoring programme is also in place to measure system wide indicators for cycling. The Strategy will be reviewed by November 2006.



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INTRODUCTION

The Regional Land Transport Committee (RLTC) wants to make cycling safe, accessible and pleasant for the people of Greater Wellington. We envisage the growth of a regional cycling culture in which cycling is a recognised transport mode that is safe, accessible and pleasant.

The Wellington Regional Land Transport Strategy (RLTS) suggests that cycling has few adverse effects on the environment, is safe and has positive health benefits (Wellington Regional Council (WRC), 2000, p29). Cycling needs represent an integral part of the RLTS directions for our transport system.

The Regional Cycling Strategy aims to:

- address the needs of the region;
- seek means of improving the regional level of service for cycling;
- promote cycling as an activity and mode of transport, and
- improve the safety of cycling.

This strategy sets out a vision shared by the region's key agencies involved in cycling and sets objectives for the promotion and development of cycling.

Vision

The evolution of a cycling culture where cycling is a recognised and valued transport mode that is safe, accessible and pleasant throughout the region.

Purpose of the Strategy

The purpose of this strategy is to signal key regional intentions for cycling; setting out a blueprint for making progress in the development of a cycling culture.

This strategy seeks to enable a proactive and interactive culture among agencies for the development and advancement of cycling in the Greater Wellington region. It intends to clarify and coordinate the roles of Road Controlling Authorities, the Land Transport Safety Authority, health authorities and Greater Wellington Regional Council in working toward the vision and objectives.

This strategy frames cycling issues from a regional perspective and identifies key objectives and actions that are:

- 1. directly aimed at resolving regional cycling issues;
- 2. achievable at regional and local levels; and
- 3. measurable, to enable an adaptive and ongoing strategy for cycling.

Strategy Development

This strategy has been developed with a working group comprised of representatives from Greater Wellington Regional Council Access Planning, the regions Territorial Authorities, Transit New Zealand, the Land Transport Safety Authority (Wellington Region), Cycle Aware Wellington and the Regional Public Health Service. The Regional Land Transport Committee has approved the draft to be released for public consultation. The final date for submissions will be 20 October 2003. Submissions will be considered by the working group and appropriate recommendations for the revisions will be made to the RLTC. The final Strategy is expected to be released in December 2003.

Roles and Responsibilities

Greater Wellington Regional Council (GW)

Greater Wellington Regional Council is responsible for ensuring the delivery of a safe, fair, reliable, cost effective and environmentally friendly transport system in the region. We do this by planning and monitoring the transport network and funding bus and train services. This strategy stems from the RLTS and establishes the direction for cycling in the region.

Transfund New Zealand (Transfund)



Promotion of walking and cycling is an output group first signalled in the 2002/03 National Land Transport Programme (NLTP) and provides financial assistance for related activities. It also provides for stand-alone cycling projects that do not otherwise comprise an integral part of a road construction project. Projects can either be for state highways or local roads. Transfund's *Project Evaluation Manual* has been updated to include a specific health benefit for increased cycling activity.

Road Controlling Authorities (RCAs)

Territorial Local Authorities (TLAs)

Local authorities have a number of regulatory roles and ownership interests in transport, largely set out in the Local Government Act 1974. District and city councils own and operate the local road network, their land transport decisions are required to be not inconsistent with, comply with and implement the RLTS. Cycling needs represent an integral part of the current RLTS.

Transit New Zealand (Transit)

Transit is responsible for managing the state highway network, and in a similar manner to local authorities, must not be inconsistent with the current RLTS.

Cycle Aware Wellington (CAW)

CAW is a cycling advocacy group based in Wellington and active since 1994. They aim to encourage cycle use, improve cycling conditions and safety for cyclists, and improve the image of cycling. This is carried out by lobbying, supporting and leading promotional events, skill training and liasing with planners and engineers in RCAs.

Land Transport Safety Authority (LTSA)

The main purpose of the LTSA is to reduce death and injury, including from cycling, on our road systems through activities which promote safety at reasonable cost. The LTSA manages the safety framework for users of the roading network.

Regional Public Health Service (RPHS)

The Regional Public Health Service promotes positive health outcomes by supporting healthy public policy, community action, healthy environments and the development of individual skills for wellbeing. Both the Injury Prevention and Nutrition and Physical Activity teams have a strong interest in the strategy.

Strategy Structure

Part One of this report frames the regional context for cycling, including agency roles, cycling issues and policy context. Part Two presents the Strategy, including the vision, goals and objectives. A detailed action plan describes more specifically how the objectives are to be achieved. The anticipated strategy cost is also outlined. Performance measures are specified to enable monitoring and review of the Region's progress toward its objectives, goals and ultimately the vision. Appendices provide further background to the strategy context.



STRATEGY CONTEXT

Policy Context

National Cycling Strategy Work

The New Zealand Transport Strategy (NZTS), released in December 2002, supports promoting cycling as a transport mode. The New Zealand Walking and Cycling Strategy (NZWCS) due to be released in 2003, will build on the NZTS and provide further direction for the role of cycling in New Zealand.

The LTSA is also developing a Pedestrian and Cycling Safety Framework that will sit under both the NZWCS and *Road Safety 2010*. From this a Cycle Network Planning Guide will be developed. The New Zealand Cycle Design Guide is also being developed by Transit. Both are due to be released by the end of 2003.

It is anticipated that, while not directly coordinated nor linked, the principles of this strategy and the above work will be complimentary.

Greater Wellington 10 Year Plan



Greater Wellington's strategic direction is set out in 'Take 10', the Long Term Community Council Plan, of which Transport is a significant feature. More short trips made by cycling are desired, the target being "65% of all trips up to 1km are walked or cycled and 48% of all trips up to 2km are walked or cycled by 2013". This strategy forms an integral part of achieving the cycling targets.

Regional Land Transport Strategy (RLTS)

The Land Transport Act requires regional authorities to produce Land Transport Strategies that identify the future land transport needs of the region concerned, and the most desirable means of responding to such needs in a safe and cost effective manner. Greater Wellington's RLTS, (WRC 2000, p29) recognises cycling has few adverse effects on the environment, is safe and has positive health benefits. In describing the needs of cycling, cyclist facilities are deemed often neither safe nor convenient. Technical input to the RLTS shows that efficient, safe and convenient connections to the major central areas and key public transport terminals are an important element in achieving high levels of regional accessibility (WRC 2000, p22).

The RLTS has responded to these needs in a number of its objectives and are further detailed in subsequent themes.

Objective 1 Accessibility and economic development

- Improve interchange between bus, rail, cycle and car
- Improve pedestrian and cycle access to key public transport nodes
- Develop and enhance safe, attractive cycling routes

Objectives 2 & 3 Economic efficiency and affordability

• Promote supporting measures which help reduce peak road demand. This includes cycling

Objective 4 Safety

- Develop programmes that improve the skills and behaviour of people using the transport system
- Encourage greater use of cycling for local trips

Objective 5 Sustainability

- Promote environmentally benign transport mechanisms. Encourage the use of 'active mode' transport
- Make cycling more attractive. Ensuring all road plans include good quality cycling provisions

This strategy is derived directly from the RLTS and intends to develop and respond to the needs, objectives and themes detailed above.

Problem Framing

Safety Risk

We can currently describe the safety risk for cyclists relative to other modes of transport. Private car, walking and bus are the most likely alternatives to a potential cyclist, and are used here to provide a relative measure. Figures are derived from LTSA data (LTSA, 2000; LTSA 2002), Greater Wellington's Household Travel Survey (WRC, 2001; WRC, 1988) and Journey to Work census data (Statistics New Zealand, 1996; Statistics New Zealand 2001).

These figures provide strong indications that cycle use in the Wellington region is declining. Journey to Work census data shows a significant decline in the usage of cycles since 1986. Wellington City is the only centre where journey to work cycle use has been steadily increasing (see Figure 6, Appendix 1). LTSA data further illustrates that cycling is less safe than travelling by bus, car or as a pedestrian. Two key age groups experience a relatively high level of safety risk when cycling with the 5-19 and 20-39 age groups well over-represented compared with usage. Regional LTSA data also shows that while other transport modes are reducing their share of total road casualties, (despite an increase in use), the proportion of cyclist casualties is increasing (despite a decrease in use). Therefore, improving cycling safety is an important objective of this strategy and is inherent in the action programme.

While we can conclude that cycling is 'less safe' than other modes of transport, it is important to note that cycling in itself is not 'unsafe'. There is only 1 chance per 40,000 hours cycled of experiencing a casualty (see Figure 4, Appendix 1). The health benefits associated with cycling are also significant in reducing the overall risk (Wardlaw, 2002, p420). The creation of a cycling culture in the region is explicit in the vision and stems from:

- the region wide decline in cycling, and
- the desire for improved safety.

Currently, cycling in the region comprises only 2% of all trips (LTSA, 2000). This figure represents a variety of cycle user groups – commuting, recreational, sporting or tourism. 52% of weekday and 28% of weekend cycle trips are for commuting purposes (including work, education, shopping or personal business). Sport or recreation trips comprise 6% of weekday and 35% of weekend trips (WRC, 2001).

A key aspect of achieving a cycling culture is overcoming a possible perception of vulnerability by potential cyclists. To a degree this will involve highlighting the importance of an enhanced cyclist presence in reducing the risk. Users of the road network need to 'expect' cyclists. Appendix 1 provides a more detailed report on the relative risk of cycling.

Perception of Vulnerability

There is a common assumption that potential- or non- cyclists perceive a level of vulnerability associated with cycling. This represents a barrier to their cycling and includes feelings of space limitations, personal insecurity and physical vulnerability. There currently is no information to support this assumption, however, a new perception survey of the Wellington region is currently being conducted. The survey will form an integral part of the RLTS Annual Monitoring Report (AMR). The first set of results are expected in late August 2003, and will be used to better inform the final version of this strategy.

Limited 'Share the Road' Ethic

LTSA crash statistics indicate a 2:1 ratio of driver:cyclist fault for crashes in the Wellington region. The dominant vehicle-cycle crash factors are being in an incorrect lane or position, failing to adequately check prior to manoeuvring, and failing to giveway. While vehicle drivers are predominantly at fault, cyclists also contribute to a significant proportion of crashes involving motor vehicles. Hence, strategy interventions need to target both user groups, with the aim of improving driver awareness of cyclists, and the skill level of cyclists.

Limited Public Transport Integration

Cycle integration with public transport has three limitations: cost of carriage, carriage capacity and the adequacy of physical links into these nodes for cyclists.

Cyclists' limited ability (prohibitive cost and capacity limitations) to carry cycles on the metropolitan train service of the Wellington Region is a recognised barrier to their moving with ease and convenience between and through local body areas. However, Greater Wellington has an opportunity to alter the fare structure and carriage 'rules' with the new operator contracting process currently underway.

The demand for cycle carriage on buses within the Wellington region and the adequacy of physical cycling links into stations/terminals is not currently known. A clearer understanding of the demand for these features is required prior to any actions being directed to such initiatives. A small scale survey is being undertaken during July 2003 to provide an initial indication of this demand.

Inadequacy of Regional Cycling Links

The regional network has been mapped and is detailed in Appendix 2. Information was sought from TLAs regarding their local cycle networks. Each TLA identified relevant sections as representing their portion of the regional through route. The y-shaped network extends from Wellington Airport at the southern end, to the regional boundary in the Wairarapa, and to Otaki in the northwest. This route represents the part of the network designed to carry through cycle traffic and is intended to provide connections into and within the region. Accordingly, a high standard of accessibility is desired. Some deficiencies in the regional network can clearly be identified. However, there is a need to investigate this further

and specifically 'map' particular sections that are inadequate. An investigation is currently being undertaken and is due for reporting in November 2003.

Competition for Funding

Competition for funding is inherent in road controlling authorities and cycling, traditionally, has not been a priority in the funding allocation process. The strategy makes recommendations for a number of initiatives to raise the awareness, safety and level of service for cycling in the region. Elements of these will need to be implemented on a local level. Implementation activities at a local level or on the State Highway network can be clearly advocated by Greater Wellington to give weight to funding requests. Advocacy can be better directed if RCAs have in place dedicated cycling work programmes for their areas.

Opportunities for Coordination

Coordinated initiatives, particularly those that have region-wide or cross-boundary implications, are likely to hold more weight politically. Limited availability of funds for cycling initiatives in recent years has meant uncertainty and a perceived inability to coordinate efforts aimed at cycling. Government/Transfund endorsement and promotion of cycling initiatives in the 2002/03 NLTP has created a more favourable political environment for cycling at all levels of government.

Challenges and Risks

Cycling programmes require political stamina due to the time required for substantial change in cycling usage, infrastructure and general perception. We are unlikely to see any significant changes in cycling numbers or risk in the near future. This may result in waning political support and subsequently, reduced funding. This strategy and ensuing RCA work programmes will require ongoing political support.



PART TWO

THE STRATEGY

Vision

The evolution of a cycling culture where cycling is a recognised and valued transport mode that is safe, accessible and pleasant throughout the region.

Objectives

The objectives for the Regional Cycling Strategy are as follows:

- 1. Create an advocacy ethic that facilitates coordination among lead agencies
- 2. Enhance cycling safety throughout the region via education initiatives
- 3. Increase accessibility, integration and safety for cycling
- 4. Improve awareness of all forms of cycling commuting, educational, recreational and tourism.

Cycling conditions are affected by a number of agencies including Road Controlling Authorities, Regional Public Health Service, LTSA, schools and user/advocacy groups. Successful promotional and educational activities rely upon ongoing and active support from these groups, which can be best facilitated by a position dedicated to coordinating relevant strategy actions. The strategy recommends developing such a position within Greater Wellington for coordinating promotional and educational activities (see Appendix 4).

Progressing the vision of a cycling culture requires RCAs to engage in dedicated work programmes and active coordination. Coordinated initiatives, particularly those with regionwide or cross-boundary implications, are likely to hold more weight politically. Greater Wellington is in a position to advocate at political levels for adequate funding; locally for RCA programmes, and centrally for ongoing cycling funding.

The three interventions of political advocacy, RCA cycling work programmes and a Regional Cycling Coordinator are believed crucial to the effectiveness of this strategy. The strategy's action programme is detailed on the following pages.

Action Programme

1. Objective: Advocacy

Create an advocacy ethic that facilitates coordination among lead agencies.

Actions	Responsibility & Role	Timing	Cost	Funding	Target	Performance Measure
Local Level Strategy Programme Implementation Advocacy at local political level during annual planning process for approval and funding RCA cycling programmes	Greater Wellington Access Planning	January 2004 & ongoing	Administrative	Greater Wellington Administrative Budget (25% Transfund)	Funding levels to meet that recommended in RCA cycling work programmes	Actual cycle programme funding in Annual Plans compared with that requested by RCAs
Coordinated Programmes						
Regional Cycling Forum Regional Cycling Coordinator position (See Appendix 4)	Greater Wellington Regional Coordinator Greater Wellington	Quarterly, ongoing January 2004	\$1,000 pa \$40,000 – \$50,000 salary + budget support (see position description)	Greater Wellington Administrative budget (25% Transfund) Greater Wellington (75%) Transfund (25%)	Host quarterly Prior to 04/05 financial year start	Cycle Forum continues 20 – 30 attendees per meeting Position appointed
<u>Central Government</u> Actively participate where appropriate in national level programmes/strategy development that have regionally significant impacts upon cycling	Greater Wellington Access Planning	Ongoing	Administrative	Greater Wellington Administrative budget (25% Transfund)	Every opportunity to participate taken	Participation in policy development opportunities

2. Objective: Safety

Enhance cycling safety throughout the region via education initiatives

Actions	Responsibility/ Role	Timing	Cost	Funding	Target	Performance Measure
Driver Education3 year education campaign promoting 'sharethe road' ethic. To adapt "Don't Burst MyBubble' Campaign. Features could includeSignage/billboardsStickersLeafletsMedia advertising	Greater Wellington Regional Coordinator Road Safety Coordinators	 04/05 financial year 05/06 financial year 06/07 financial year 	\$30,000 \$15,000 \$15,000	Transfund (50%) Greater Wellington (50%) LTSA SAP	Campaign implemented 1. 04/05 FY 2. 05/06 FY 3. 06/07 FY	Campaign implemented
Cycling Skills for Adults Bikenews – publish series of skill guidelines	Greater Wellington Regional Coordinator	January – June 2004	Within Greater Wellington contribution to Bikenews	Greater Wellington (Bikenews) Pre- existing cost	Monthly publication of skills set in Bikenews January – June 2004	Skills feature published
Assess and investigate the need for conspicuity/ light use campaign	Greater Wellington Regional Coordinator	04/05 financial year	\$10,000	RSC Greater Wellington LTSA	04/05 financial year	Investigation complete
Investigate promotion of community education courses, e.g. "Cycling Skills in the City"	Greater Wellington	2004	Administrative	Greater Wellington	2004	Investigation complete
				-	·	·

Actions	Responsibility/ Role	Timing	Cost	Funding	Target	Performance Measure
<u>Kiwi Cycling (Bikewise)</u> Determine a schedule of programmes in schools throughout the region. Set number of schools per year	Greater Wellington Regional Coordinator (schedule set up)	04/05 financial year + ongoing	Administrative	Greater Wellington for Regional Coordinator input	Year 6 schedule established to begin 2005 school year	Schedule in place
Implementation of schedule (Instructor time)	Bikewise Regional Coordinator	2005 + subsequent years	\$25,000 per annum	Health Sponsorship Council Transfund	90% of schools in schedule by third year of programme	Programme implemented at all scheduled schools 90% schools participate in schedule & programme



3. Objective: Accessibility

Increase accessibility, integration and safety for cycling.

Actions	Responsibility & Role	Timing	Cost	Funding	Target	Performance Measure
<u>Regional Cycling Network</u> Identify the regional strategic network	Greater Wellington Access Planning	June 03	Administrative	Greater Wellington	Regional Network published in draft strategy	Network identified
Identify inadequate sections on the regional network. Investigate cost and feasibility of improving level of service on these sections. Prioritise based on strategic importance, lowest level of service and cost.	Greater Wellington Access Planning	November 03	\$10,000	Greater Wellington	Published in final strategy	Network inadequacies identified and remedial actions prioritised
Develop a work programme for improving the level of service for cycling on respective local networks. Programmes will recognise current best practice guidelines and should adequately consider the following service level elements: • Space allocation • Surface smoothing • Connectivity • Traffic calming measures • Bicycle detection at traffic signals • Maintenance • Links to and from public transport terminals • Priority on roading networks • Bicycle parking Incorporate cycle facilities auditing processes	RCAs	Programme by December 2004 ready for 2005/06 Annual Plan process Ready for 05/06 financial year	Each RCA to determine	RCAs Transfund (Strategy Development)	All by start of 05/06 financial year	All RCAs have work programmes

Actions	Responsibility & Role	Timing	Cost	Funding	Target	Performance Measure
Public Transport IntegrationFacilitate cycle carriage on regional trainservices by reviewing the fare structure to:Small charge for peak cycle carriageFree off-peak cycle carriageSurvey	Greater Wellington Transport Procurement and Transport Service Design	During tendering/ contract process with new operator	-	-	Specified in new contract	Specified in new contract
 Perception of service levels into and out of stations/terminals for cyclists Demand for cycle carriage on trains Demand for cycle carriage on buses Perception of how a cycling journey could be more attractive 	Greater Wellington Access Planning	July Issue of <i>Bikenews</i>	-	Covered as part of standard \$700 monthly contribution	July 2003	Survey undertaken
Regional Cycling Maps Develop a set of maps for cyclists, covering the major regional areas Distribute in cycle shops, information centres, council offices & centres etc	Greater Wellington Access Planning Greater Wellington Regional Coordinator	Publish March 2004 March 2004 & ongoing	\$25,000 (initial) Reprints: \$5,000 Initial update	50%: Transfund 50%: Greater Wellington TLAs Sponsorship / Advertising	March 2004 Update 2007	Maps published and distributed Updates undertaken
<u>Perception Survey</u> Undertake a survey to determine the perceived level of service for cyclists around the region and the perception of risk in cycling	Greater Wellington Access Planning	July 03, 04, then 2 yearly	in 3 years \$8,000 per survey	RLTS AMR budget	Survey July 2003, 2004 then 2 yearly	Survey completed and results reported in AMR



4. Objective: Awareness

Improve awareness of all forms of cycling - commuting, educational, recreational and tourism.

Responsibility & Role	Timing	Cost	Funding	Target	Performance Measure
1					
WCC Road Safety Coordinators CAW representative Greater Wellington Regional	Monthly	\$1,400/ month	Greater Wellington - \$700/month WCC \$700/month Other TLAs?	Monthly publication	Page published
Coordinator					
Greater Wellington Regional Coordinator RSC CAW	Annual events in individual or combined TLA areas as appropriate	~\$10,000 each.	Transfund Sponsorship TLAs RPHS Greater Wellington	Increasing participation each successive event. 4 events held per year (accounting for combined TLA rides)	Number of people participating Number of events held
RPHS					
Greater Wellington CAW	March 2004	\$2,000 design & build, \$500 per annum updates	Greater Wellington	Site redeveloped by March 2004	Site redeveloped
	RoleWCC Road Safety CoordinatorsCAW representativeGreater Wellington Regional CoordinatorGreater Wellington Regional CoordinatorGreater Wellington Regional CoordinatorRSC CAW RPHSGreater Wellington	RoleWCC Road Safety CoordinatorsMonthlyCAW representativeMonthlyGreater Wellington Regional CoordinatorAnnual events in individual or combined TLA areas as appropriateGreater Wellington Regional CoordinatorAnnual events in individual or combined TLA areas as appropriateGreater Wellington Regional CoordinatorAnnual events in individual or combined TLA areas as appropriateGreater Wellington RSCMarch 2004	RoleMonthlyWCC Road Safety CoordinatorsMonthly\$1,400/ monthCAW representativeFeater Wellington Regional Coordinator*10,000 each.Greater Wellington Regional CoordinatorAnnual events in individual or combined TLA areas as appropriate~\$10,000 each.Greater Wellington Regional CoordinatorAnnual events in individual or combined TLA areas as appropriate\$2,000 & \$2,000 & \$2,000 	RoleMonthly\$1,400/ monthGreater Wellington - \$700/month WCC \$700/month WCC \$700/month WCC \$700/month WCC \$700/month WCC \$700/month Other TLAs?Greater Wellington Regional CoordinatorAnnual events in individual or combined TLA areas as appropriate~\$10,000 each.Transfund Sponsorship TLAs RPHSGreater Wellington Regional CoordinatorAnnual events in individual or combined TLA areas as appropriate~\$10,000 each.Transfund Sponsorship TLAs RPHSGreater Wellington CAWAnnual events in individual or combined TLA areas as appropriate~\$10,000 each.Transfund Sponsorship TLAs Greater WellingtonGreater Wellington CAWMarch 2004\$2,000 design & build, \$500 per annumGreater Wellington	RoleMonthly\$1,400/ monthGreater Wellington - \$700/month WCC \$700/month WCC \$700/month WCC \$700/month Other TLAs?Monthly publicationGreater Wellington Regional CoordinatorAnnual events in individual or combined TLA areas as appropriate~\$10,000 each.Transfund Sponsorship TLAs?Increasing participation each successive event.Greater Wellington Regional CoordinatorAnnual events in individual or combined TLA areas as appropriate~\$10,000 each.Transfund Sponsorship TLAs Greater WellingtonIncreasing participation each successive event.RSC CAW RPHSMarch 2004 \$2,000 design & build, \$500 per annum\$2,000 design & build, \$500 per annumGreater Wellington

Anticipated Strategy Cost

The anticipated strategy cost is expected to start at \$140,000 in the first year, rising to \$155,000 in 2006/07. Appendix 3 gives a breakdown of this cost. It is further anticipated that some strategy costs will be ongoing for an indefinite period, if proven as effective intervention measures.

There is an expectation that TLAs will contribute to the funding of initiatives relevant to their local body areas, such as the group fun rides and regional cycling maps. Additional funding may be sought in contribution to the regional monthly *Contact 'Bike News'* page, which is currently funded by Greater Wellington and Wellington City Council.

Monitoring and Review

Greater Wellington Regional Council will have primary responsibility for all monitoring. Progress with strategy actions will be monitored against respective performance measures on an ongoing basis. Monitoring of system wide cycling indicators will be undertaken by the RLTS Annual Monitoring Report process.

The system wide indicators are:

- Proportion of all trips cycled
- Perception of cycling safety, convenience and ease
- Relative risk of cycling as a transport mode (measured against vehicle, pedestrian and bus travel).

We expect to see positive outcomes over all indicators as a result of successful implementation of the interventions detailed in the action programme. The Strategy will be reviewed by November 2006.



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APPENDIX 1

Relative Risk of Cycling as a Transport Mode in the Wellington Region

Using crash data from the Land Transport Safety Authority (LTSA), we can illustrate the relative risk to cyclists in our region using risk data for other dominant mode choices: car, bus and walking. Travel estimates generated by the *New Zealand Travel Survey 1997/98* (LTSA, 2000) can be used to describe travel behaviour generally, and also to calculate accident risks (Frith, 2000). Notes at the end of this document detail the limitations of this kind of data and should be read in conjunction with the report. There are a number of areas particularly relevant to the Regional Cycling Strategy. They are, total regional cycling casualties figures, relative modal risk, risk to different age groups, and cycling casualties over time as a percentage of total casualties.

1. Total cycle casualties

Table 1 details the breakdown of total cyclist casualties from 1993 to 2002 in the Wellington Region, by local body area. The majority of casualties are occuring in Wellington and Hutt Cities, however, they also have the largest number of cyclists. Fault rests approximately $^{2}/_{3}$ with drivers and $^{1}/_{3}$ with cyclists. Figure 1 illustrates the generally flat trend for the region as a whole.

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Wellington City	52	47	55	59	52	44	26	35	47	37
Porirua	4	7	5	10	1	1	1	3	6	7
Upper Hutt	7	7/	11	5	8	5	12	8	8	9
Hutt City	24	19	19	22	27	19	22	15	18	15
Kapiti Coast District	8	6	4	2	8	9	9	6	5	3
Masterton District	9	8	8	6	10	8	9	6	7	14
South Wairarapa District	0	2	1	0	0	0	0	1	0	1
Carterton District	0	1	0	0	0	0	1	1	0	2
Wellington Region	104	97	103	104	106	86	80	75	91	89

Table 1: Total cyclist casualties 1993 – 2002 for Wellington Region, broken into local body areas (LTSA, 2002b).

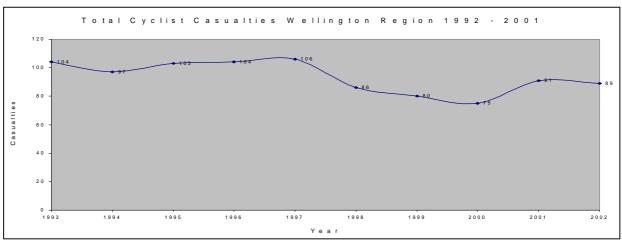


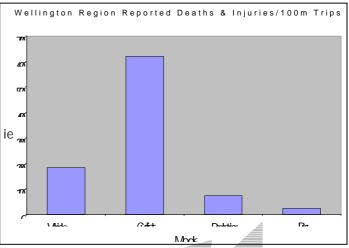
Figure 1: Total Cyclist Casualties, Wellington Region, 1993 - 2002 (LTSA, 2002b)

2. Relative modal risk using exposure indicators

Determining the relative risk of each mode is done so using 'exposure-to-risk' injury indicators of crashes per kilometres travelled, hours spent travelling and per trip (Frith, 2000). Figures 2, 3 and 4 illustrate these risks for Wellington Region. Note that pedestrian and cycling injuries and deaths are only those involving a motor vehicle.

The graphs show that a cyclist is roughly three time more likely than a vehicle occupant, on any given trip, to be involved in an injury/death crash; and eight times more likely than a pedestrian.

The numbers are similar using timebased exposure for cars, however the cycling risk is six times that of pedestrians per hour travelled. Using kilometre based exposure rates, the risk to cyclists is 10 times that of cars. There is no data for kilometre travel for pedestrians. Bus travel represents the least 'risky' mode of transport.





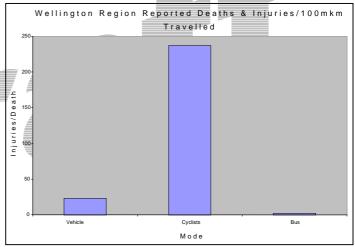


Figure 3: Reported deaths and injuries per 100 million kilometres travelled (LTSA, 2000). NB: Figures are not available for kilometres travelled by pedestrians.

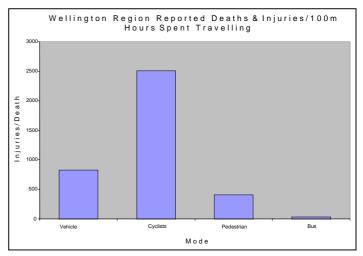
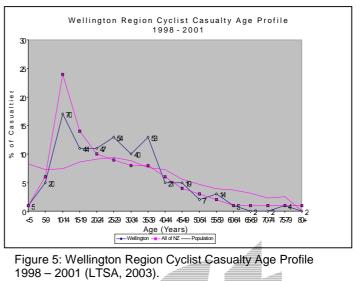


Figure 4: Reported deaths and injuries per 100 million hours spent travelling (LTSA, 2000).

3. Cycling risk by age group

The cycling casualty figures for the 20 to 39 and 5 to 15 year age groups are over represented in Wellington Region. The 5 to 15 age group casualties, while well below the national figure, is additionally important because 1) there is significant potential for improvement in cyclist skill over this age range, and 2) the proportion of trips to school that are cycled has decreased from 8.5% in 1988, to 2.6% in 2001 (WRC, 1988 & 2001).

The decline in cycling as a means of travelling to school corresponds with a general decline in cycling as a means of transport in the region. Figure 6



illustrates this point and shows that between 1986 and 2001 all local body areas, apart from Wellington City, experienced a decline in the proportion of people travelling to work by bicycle. While cycle counts have been carried out sporadically throughout the region, available data corresponds to that above, indicating low cycling numbers. For the purpose of the Regional Cycling Strategy, the data provided by Census Journey to Work , the Household Travel Survey and the New Zealand Travel Survey are sufficient to give an indicative picture of regional cycling patterns.

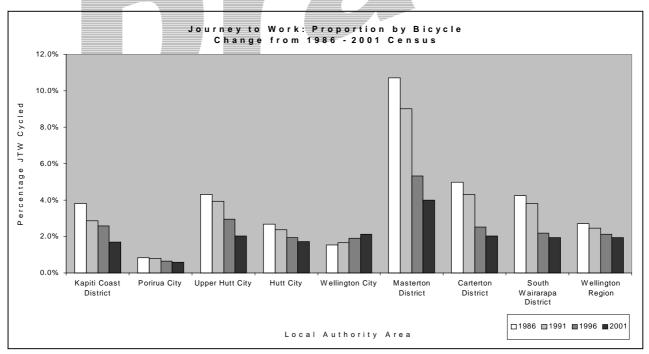
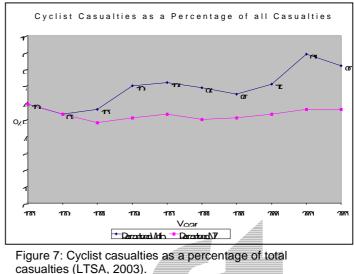


Figure 6: Proportion of journey to work by bicycle, comparison of 1986 – 2001 census data (Statistics New Zealand, 1986, 1991, 1996 & 2001).

4. Cycling casualties over time proportional to total crashes.

Cycling casualties as a proportion of total road casualties in the region have increased over the previous decade by approximately 3.5%, despite a general decline in cycling numbers. Conversely, car driver and passenger casualties have decreased by approximately 2 - 5%, despite a considerable increase in vehicle occupancy numbers over last decade. Cycling casualties in Wellington Region, as a percentage, were almost twice the national figure in 2001.



5. Strategy implications

These figures provide strong indications that cycle use in the Wellington region is

declining and is less safe than travelling by bus, car or as a pedestrian. They show two key age groups that experience a relatively high level of risk when cycling with the 20-39 age group well over-represented compared with national figures. They also show that while other transport modes are reducing their share of total road casualties, (despite increases in their use), the proportion of cyclist casualties is increasing (despite decrease in their use). Therefore, improving cycling safety is an important objective of the strategy. This must be inherent in the strategy's programme of action. Relevant safety components are promotion, education programmes, the identification of key physical deficiencies, and the development of action plans to address these components.

While we can conclude that cycling is 'less safe' than other modes of transport, it is important to note that cycling in itself is not 'unsafe'. There is only 1 chance per 40,000 hours cycled of experiencing a casualty (see Figure 4). The drive to create a cycling culture in the region is explicit in the vision and stems from:

- the region wide decline in cycling, and
- the desire for improved safety.

A growing body of international research supports the key assumption of this focus; that is, a level of safety is achieved with increasing cycling frequency and therefore, visible presence. This 'safety in numbers' concept is also embodied in the New Zealand Walking and Cycling Strategy, *Slow Modes in the Fast Lane* (Ministry of Transport, 2002).

A key aspect of achieving a cycling culture is overcoming the 'vulnerability' perception of potential cyclists. To a degree this will involve highlighting the importance of an enhanced cyclist presence in reducing the risk. Users of the road network need to 'expect' cyclists. Improving safety will also be underpinned by instituting a 'share the road' ethic/educational programmes; targeted at both drivers and cyclists.

Notes on the New Zealand Travel Survey Data

- 1. Injury data: reported motor vehicle injury crashes from the Police Traffic Crash Reports database maintained by the LTSA.
- 2. Regions: the Travel Survey regions refer to residents of the selected regions. In the crash data, the given region is the region in which the crash occurred. These are not identical. For cyclists one would expect a high correlation. For the risk estimates to be valid for vehicle occupants, it is necessary to assume that travel by regional residents outside the region is matched by travel by non-residents inside the region.
- 3. The injury statistics only include injuries in crashes reported to the Police and which involve a motor vehicle. Cyclist-only or Cycle-pedestrian crashes are not included in these figures. The risk estimates will therefore underestimate the total injury risk to cyclists. Information on cyclists hospitalised from on-road non-motor vehicle crashes may be obtained from New Zealand Health Information Services, but the two data sets deal with different populations and shouldn't be combined.

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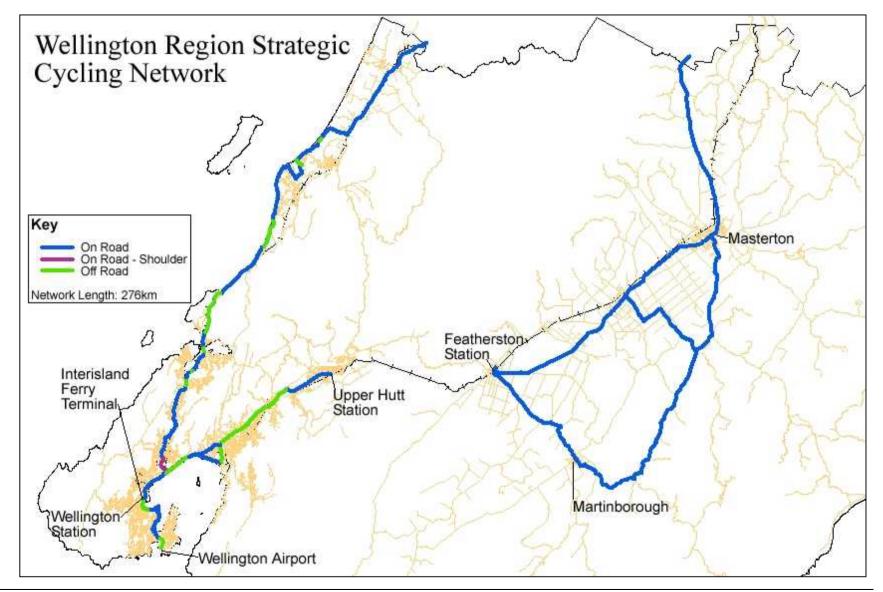
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APPENDIX 2



Wellington Region Strategic Cycling Network

Wellington City

Northbound Airport Stewart Duff Drive (off road) Cross Broadway Subway **Coutts Street** Te Whiti Rongotai Cross Rongotai Through Pedestrian link to Kemp Street Evans Bay Parade Evans Bay Parade - Cobham Drive Intersection Evans Bay Parade **Oriental Parade** Herd Street Waterfront (to Island Wharf) **Bunny Street** Thorndon Quay Hutt Road A: To Porirua **B: To Hutt City** Hutt Road Hutt Road (on road shoulder) Centennial Highway (Ngauranga Gorge) (Ngauranga Motorway interchange) Johnsonville Road Hutt Road (on road shoulder) Middleton Road Willowbank Road Main Road (Tawa) (Boundary: Linden Park) Southbound A: Porirua - Wellington: B: From Hutt City to CBD: **Reverse Route** Hutt Road (off road and shoulder) (Ngauranga Motorway interchange) Hutt Road (on road)

Interislander Ferry Terminal Hutt Road Over bridge to Aotea Quay

Main road link into Ferry Terminal

Hutt City

Northbound

Hutt Road (on road) Petone off ramp Hutt Road Railway Ave Hutt River Trail - continues through to Upper Hutt

East

Hutt Road The Esplanade Waione Road Hutt River Trail to connect Northbound

Southbound

Reverse Route

Wairarapa

Northbound from Featherston Station Harrison Street West Johnston Street Fox Street Birdwood Street SH2

Featherston - East to Martinborough SH53

Carterton - Masterton - Martinborough link Masterton-Martinborough Road

Link from Masterton via: Church Street Colombo Road Johnstone Street

Link from Carterton via: Park Road Carters Road Gladstone Road

Upper Hutt City

Northbound (on road) Hutt River Trail - continues from Hutt City Enter County Lane Fergusson Drive SH2 north Cyclists recommended to take train from Upper Hutt Station to Featherston

Upper Hutt Station

Fergusson Drive Station Crescent

Southbound Reverse Route

Porirua City

Northbound Main Road Kenepuru Drive Off road at old hospital buildings to Porirua Stream Track Porirua Stream Track Bullock Lane The Ramp (footpath) - SH1 Okowai Lagood Track Okowai Road Whitford Brown Ave Papakowhai Road Paremate Crescent Cross SH 58 to off road track alongside SH1 Mana Esplanade St Andrews Road **Plimmerton Street** Ulric Street Dismount bike, cross private land to off road cycle track parallel to St Andrews Road Off road track through Taupo Swamp Airlie Road Off Road Track continues alongside SH1 Enter Main Road at point in line with end of Elizabeth Street Exit Main Road to off road track at Teihana Road West Off Road between Teihana Road West and Te Kura Enter Te Kura, Cross Wairaka to off road track Cross Pukerua to Haunui, zigzag down to Waimarino, through to Onepu onto coastal route between Pukerua Bay and Paekakariki (SH1) Southbound **Reverse Route**

Kapiti Coast District

Northbound
SH1
Ames Street
Beach Street
The Parade
Henare Street
Wellington Road into Queen Elizabeth Park
Inland Track
Through Car Park roads at QE end of Whareroa Road
Inland Track
The Esplanade
Poplar Avenue
Rosetta Road
Matatua Road
Wharemauku Road
Marine Parade
Manly Street
Ngapotiki
Te Kupe Road
Mazengarb Road
Ratanui Road
Otaihanga Road
Makora Road & off road at bend over Otaihanga Domain Footbridge
Waikanae Christian Camp Trail
Tutere Street
Heperi Street
Field Way
William Street
Rutherford Drive
Off road through reserve adjacent to oxidation ponds
Paetawa Road
Peka Peka Road
SH1 to (& through) Otaki

Southbound

Reverse Route

APPENDIX 3

Anticipated Strategy Cost 2003 – 2007

Strategy Actions	2003/2004	2004/2005	2005/2006	2006/2007
Advocacy at political level during annual planning	Administrative	Administrative	Administrative	Administrative
for approval and funding of draft RCA cycling				
programmes.				
Regional Cycling Forum	\$1,000	\$1,000	\$1,000	\$1,000
Regional Cycling Coordinator position	\$25,000	\$50,000	\$50,000	\$50,000
Actively participate where appropriate in national	Administrative	Administrative	Administrative	Administrative
level programmes/strategy development that have				
regionally significant impacts upon cycling.				
Driver Education Campaign	-	\$30,000	\$15,000	\$15,000
Bikenews – publish series of skill guidelines	Administrative	-	-	-
Assess and investigate the need for conspicuity/ light	\$10,000	-	-	-
use campaign.			Â	
Investigate promotion of community education	Administrative	Administrative	Administrative	Administrative
courses. E.g. "Cycling Skills in the City".				1
Determined schedule of programmes in schools	Administrative	\$10,000	\$15,000	\$25,000
throughout the region. Set number of schools per				
year.				
Identify the regional strategic network. Publish in	Administrative	-		-
strategy.				4
Identify inadequate sections on the regional network.	\$10,000	-	_	-
Investigate cost and feasibility of improving level of				
service on these sections. Prioritise based on				
strategic importance, lowest level of service and cost.				
Publish in strategy.				
Develop work programme for improving level of	Determined by	Determined by	-	-
service for cycling on respective local networks.	RCAs	RCAs		
Public Transport Integration	Administrative	Administrative	-	-
Facilitate cycle carriage on regional train services in				
region incorporating. Fare structure:				
Charge for peak run carriage				
Free off-peak run carriage.				
Bikenews Survey – Public Transport Integration	Administrative	-	-	-
Regional Maps:	# 2 5 000	¢5.000		¢15.000
Develop set of maps for cyclists, covering the major	\$25,000	\$5,000	-	\$15,000
regional areas.	#0.000	(reprints)		(updates)
AMR Perception Survey	\$8,000	\$8,000	-	\$8,000
• Level of service for cyclists around the region				
Perception of risk in cycling	* 4 400			
Contact Bikenews	\$1,400	?	?	?
One page spread on cycling in the Wellington				
Region; printed on odd page number.				
Focus: Events, strategy work, cycle safety & skills,				
general information.	+ /	+		+
Group Rides:	\$40,000	\$40,000	\$40,000	\$40,000
Annual localised fun rides held in TLA areas.		+		÷
Webpage	\$2,000	\$500	\$500	\$500
Assist development of CAW webpage as central				
wellington region cycling webpage.				
Incorporate advertisement of Bikeweek, and other				
relevant cycling events.				
Total Antion stad Cost	\$132,400	\$154,500	\$121,500	\$154,500
Total Anticipated Cost	\$132,400	\$104,000	φ 121, 500	\$562,900

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APPENDIX 4

Regional Coordination

The coordinator position will be a regional role similar to the Road Safety Coordinator concept. Eventually we envision a cycling coordinator based at each TLA. However, to prove the concept in the initial stages of strategy implementation, we recommend a centralised position.

Function

A Regional Coordinator employed by and based at Greater Wellington. A position dedicated to facilitating, coordinating, organising promotional and education activities arising from the Regional Cycling Strategy.

		A				
	Level of	Level of Involvement/Responsibility				
Key Functions of Regional Cycling Coordinato	or	GW Policy	Coordinator	TLA		
Coordinating community cycling initiatives to contribute to th Cycling Strategy vision and objectives.	Low	High	Mod			
Identifying, defining and prioritising cycling issues, with	Regional	High	Mod	Mod		
regard to national priorities.	Local	Low	Mod	High		
Developing effective relationships, promoting and encourage agency collaboration and effective cycling partnerships at relocal levels.		Mod	High	Mod		
Identifying and contacting regional cycling stakeholders at var from institutional to community.	ious levels	Mod	High	Low		
Establishing and maintaining networks of regional cycling stake	cholders	High	High	Mod		
Establishing and maintaining working groups to address regional cycling issues, where an appropriate community agent identified.	Low	High	High (involvement)			
Developing an annual plan for the region in association with the cycling agencies/stakeholders to meet the objectives of the Cycling Strategy and Regional Land Transport Strategy.		High	High	High (involvement)		
Identifying and generating resources that are available for	Regional	High	High	Mod		
cycling activities and ensuring they are used effectively.	Local	Mod	Mod	High		
Providing advice, training and support and encouragement to and community groups carrying out regional and local cycling a	Low	High	Mod			
Facilitating the development and implementation of regional cycling initiatives.	and local	Mod	High	Mod		
Monitoring and ensuring the evaluation of regional cycling proj	High	High	Mod (monitoring)			
Reporting on the progress of community cycling activities for th	ne region.	Mod	High	Low		

Relevant Cycling Strategy Interventions

Driver education (e.g. Don't Burst my Bubble campaign) Cycling Skills for Adults Kiwi Cycling Schedule Coordination Bikenews Group Rides Regional Cycling Forum Regional Cycling Maps

Budget Support

Salary (\$40 – \$50k). Specific Campaigns for promotion & education (~\$20k per campaign). Group rides (~\$10,000 per activity). Bike News (\$16,800 per annum). Administration for coordination activities (overheads).