



# Queensland Cycle Strategy 2011–2021

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## Executive summary

Getting more people cycling, more often, for more types of trips will help make our cities and towns more sustainable, vibrant and friendly.

Supporting cycling as an attractive way to travel means more people can enjoy this affordable, practical and healthy transport choice that offers door-to-door convenience.

More cycling can help manage congestion, improve quality of life and reduce pollution.

Cycling is also a popular fitness and recreation activity.

In many parts of Queensland, cycling can provide affordable access to jobs and services for people who cannot easily access public transport or a car.

The *Queensland Cycle Strategy 2011–2021* builds on the significant commitments to cycling already made by the Queensland Government, local governments and other organisations. In 2010, the *Queensland Growth Management Summit* included an action to release a new Queensland Cycle Strategy.

The *Queensland Cycle Strategy 2011–2021* will support Queensland household efforts to meet the Queensland Government's *Toward Q2: Tomorrow's Queensland* targets of:

- cutting Queensland households' carbon footprint by one-third by 2020 through reduced electricity and car use
- reducing Queenslanders' obesity levels.

Implementing the strategy involves state government agencies, local governments, local communities and businesses, all working in partnership.

The previous *Queensland Cycle Strategy* was released in 2003. Since then, significant progress has been made to support more cycling. Achievements include:

- retrofitting 295 kilometres of cycle networks since 2006 in partnership with local governments in south-east Queensland
- a record expenditure by the Queensland Government of more than \$100 million to expand cycling networks in regional and metropolitan areas across Queensland in 2009–10 and an average of \$90 million per year in subsequent years
- promoting best practice end-of-trip facilities through the delivery of the Royal Brisbane and Women's Hospital and King George Square cycle centres
- requiring end-of-trip facilities for all new major developments in designated local government areas through the Queensland Development Code
- supporting mass cycle events, such as Bike Week and Cycle Queensland
- delivering the 2006 TravelSmart Brisbane North project targeting about 75 000 households, and achieving a 50% increase in cycling.



## Our vision

Our vision for cycling in Queensland is:

*more cycling, more often*  
*on safe, direct and connected routes*

Achieving this vision would mean:

- Queenslanders of all ages and abilities can make the choice to cycle for transport, recreation, fitness and health
- residents in Queensland cities and towns can ride on safe, direct cycle routes with secure bicycle parking at their destination
- school and university students have safe and direct cycling routes, with secure bicycle parking
- cycling is supported by all levels of government and the community.

### Cycling facts

- In 2011, it is estimated that 814 000 people ride a bike in Queensland each week (18% of residents).
- In 2011, it is estimated that close to 60% of Queensland households have access to a bicycle.
- In 2010, Australians bought more than 1.3 million new bicycles, compared to one million cars, making it the eleventh year in a row that bicycle sales outstripped car sales.
- In 2009, more than 364 000 Queenslanders rode a bike for recreation, exercise or sport – an 11% increase from the previous two years.

## Targets

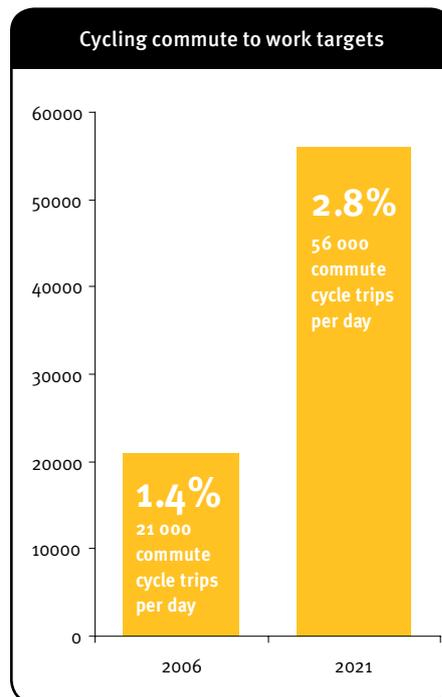
The *Queensland Cycle Strategy 2011–2021* target is to get more people to cycle, more often for school, work, recreation, shopping and social trips.

Currently there is no state-wide data available that tracks how often people cycle for all types of trips.

Until this is available, progress on the strategy will be tracked through a target to double cycling’s share of commute trips to work by 2021, and tripling these trips by 2031.

With population growth, doubling the commute trips by bicycle by 2021 represents a 180% increase.

The strategy will monitor the percentage of females cycling to work. Internationally, the proportion of female riders is recognised as an indicator of the ‘friendliness’ of cycling environments. In 2006, only 19% of cycling journeys to work were made by females.



## How can cycling benefit you?

### Improved health and fitness

Cycling is a great way to improve your cardiovascular fitness, tone the body and shed some unwanted kilos.

### Save time

Get the recommended physical activity of at least 30 minutes on most days of the week, by combining exercise with your cycling trip.

### Save money

Once you have your bike and accessories, cycling is basically free. That means you do not have to pay for fuel, parking, registration or insurance. This can save thousands of dollars each year.

### Environmentally friendly

Relying on ‘pedal power’, cycling produces no emissions and has minimal impacts on the environment.



## Priority areas

The *Queensland Cycle Strategy 2011–2021* has four priority areas for action:

- building safe, direct and connected cycle networks
- growing a cycling culture
- creating cycle-friendly communities
- developing a cycling economy.

Each priority area outlines actions to be implemented and identifies signature projects that contribute to the delivery of the priority.



# Priority area one – building safe, direct and connected cycle networks

*Principal Cycle Network Plans* will be prepared for regions across the state to identify important cycle connections for progressive delivery of connected networks.

The Queensland Government has adopted a *Cycling Infrastructure Policy* to make sure cycling is incorporated into all government transport infrastructure projects.

The policy will result in provision for cycling in transport infrastructure projects (roads, public transport and other), upgrades and maintenance on the principal cycle network.

Delivering a connected network will also make it safer to cycle. New types of cycle facilities will be trialled that provide better separation of cyclists and motor vehicles.

People consistently report they would walk and cycle more if there were safer facilities, with 91% of cyclists reporting they feel safe when cycling on off-road paths.

Enhanced safety will be supported with targeted reductions in speed limits, along with a program to address locations where cycle crashes are an issue.

The signature project for this priority is to roll out connected networks across Queensland cities and towns with populations of more than 20 000 residents (see box below).

Delivery of infrastructure will be guided by *Principal Cycle Network Plans* (where they are available), with priority given to projects that fit into one of the following categories:

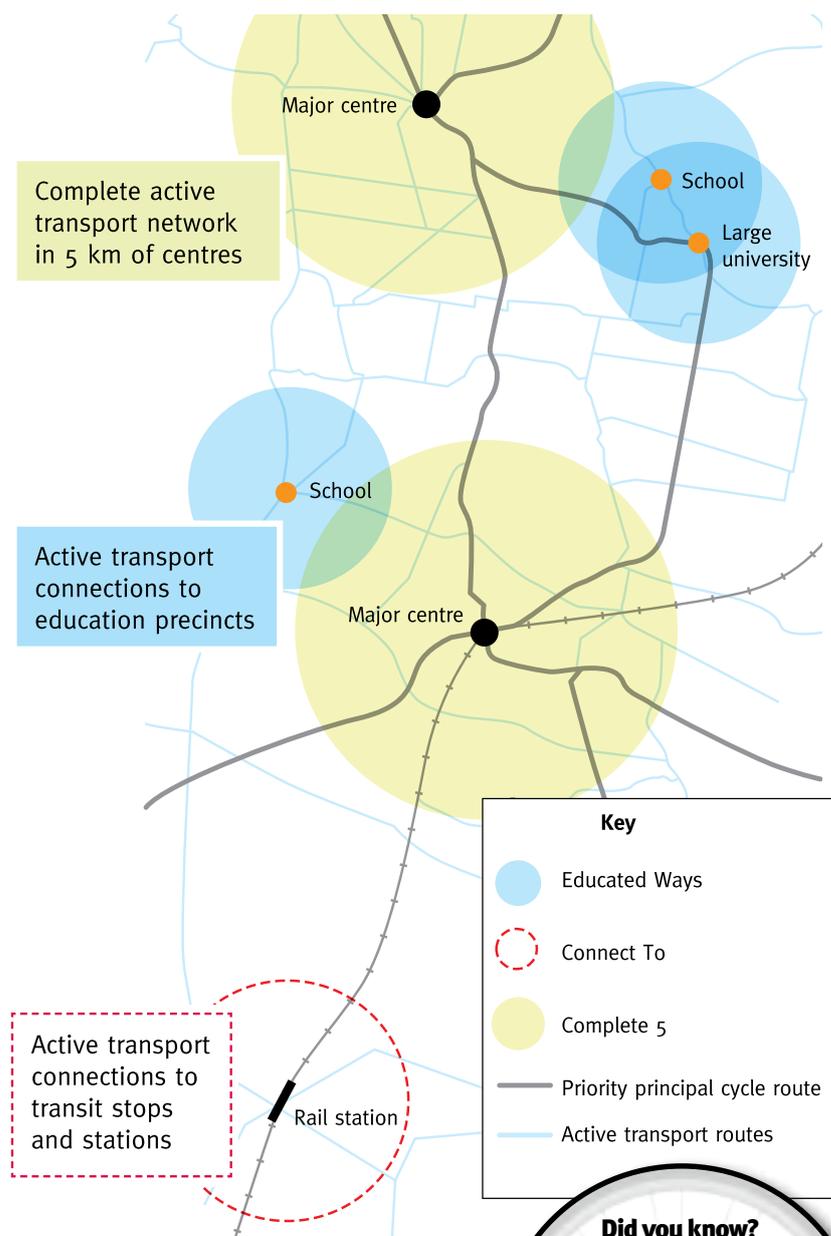
**Strategic cycle network** – links to connect centres and key attractors. Some of these routes may be protected cycleways or veloways

**Complete 5** – completing the principal cycle network within five kilometres of key centres to deliver a connected cycle network

**Educated Ways** – ensuring safe and connected routes are provided to major schools, universities and TAFEs, focusing on a three kilometre catchment around schools

**Connect To** – putting cycle links in place to key public transport stations and stops (up to five kilometres), supported by bicycle parking and end-of-trip facilities.

## Strategic cycle network, Complete 5, Connect To and Educated Ways



### Signature project one

Connected networks for cities and towns across Queensland

**SP 1.1** Develop a delivery program in partnership with local government for strategic cycle networks, Complete 5, Educated Ways and Connect To, updated annually as part of the *Queensland Transport and Roads Investment Program*.

**SP 1.2** Focus criteria for existing and new cycling infrastructure-related funding programs on delivering strategic cycle network routes, Complete 5, Educated Ways and Connect To. Coordinate and streamline the application processes across the various funding sources.

#### Did you know?

Cycling five kilometres to and from work each day instead of driving would save about 720 kilograms of greenhouse gas emissions per year.

## Priority area two – growing a cycling culture

Getting more people to cycle will take time. Community attitudes to cycling will only change when people experience cycling as being safe and convenient. Building a cycling culture is about Queensland being a place where cycling is widely supported, encouraged and celebrated.

Continuing to roll out the successful TravelSmart program will help send the cycling message to people in their everyday lives and get more people cycling to work and school, for shopping and recreation.

By providing tailored information about local cycling opportunities and facilities, previous TravelSmart programs have boosted the number of people cycling by more than 50%.

The Queensland Government will continue to promote cycling messages to support safe interaction between cyclists and motorists. This will include communication activities that highlight cycling's broad appeal.

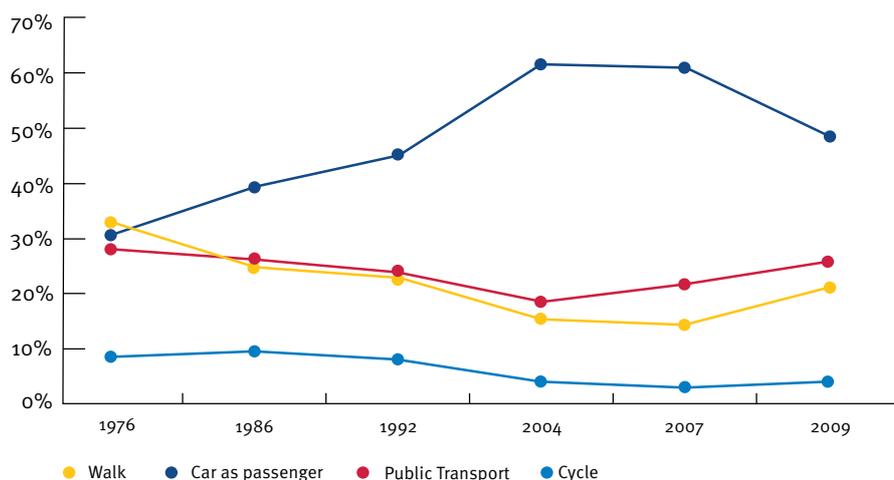
Cycling events such as Bike Week and the annual Cycle Queensland ride will continue to be evaluated and supported as a way for cyclists to come together and help encourage new cyclists to 'give it a try'.

Connected cycle networks will be supported by providing regulatory and directional signs, maps and other useful information. The strategy will investigate using new technology to provide this information, such as applications for use with mobile phones and GPS devices.

The Queensland Government will lead by example through increasing the use of cycling in daily operations, as well as supporting businesses and health professionals to encourage more people to cycle.

To lessen the barriers to cycling, legal impediments to riding and new types of safer cycling facilities will be identified and addressed.

### Historical travel to school mode share in greater Brisbane



### Improving children's health through active school travel

Forty years ago, almost half of children walked or cycled to school, with about one-third being driven or using other means of transport. Today, more than 70% of primary school children are driven to and from school every day.

This trend can have negative repercussions on our children's health. In 2008, about 26% of Queensland children aged between five and 15 years were found to be overweight or obese.

Encouraging children to be active while travelling to and from school for even just a few trips a week has multiple benefits.

Having more children cycling to and from school and creating a cycling culture among the upcoming adults of tomorrow, is a strong focus for the *Queensland Cycle Strategy 2011–2021*. This will help to address physical inactivity and the rising incidence of overweight and obese children.

Active school travel programs will continue to be rolled out across the state. More active school travel will be supported through the delivery of bicycle education programs to schools, so children learn how to cycle safely and with confidence.

#### Did you know?

About three-quarters of residents in Queensland cities and towns live within five kilometres of an activity centre.

### Signature project two

#### Bicycle education

**SP 2.1** Pilot and deliver nationally accredited bicycle education programs suitable for children and adults.

**SP 2.2** Develop and maintain resources to inform and support schools, parents and carers when teaching children to ride.

## Priority area three – creating cycle-friendly communities

When new communities are designed for cycling and walking, the community can reduce its reliance on car travel.

With a significant part of future growth across Queensland in new communities, there is the opportunity to have best practice cycle facilities in place from the outset.

Turning attention to providing for cycling in existing cities and towns will continue to be an important focus.

A big part of creating cycle-friendly communities will be ensuring end-of-trip facilities are provided at places people want to cycle to, such as

workplaces, schools, universities, shops and activity centres. Providing these facilities in new buildings is important, as is finding ways to retrofit facilities in existing buildings.

The signature project for this priority area is to pilot active towns programs in partnership with state agencies, local governments, the bicycle industry and bicycle user groups.

Active towns programs focus infrastructure provision and encouragement intensively in a small number of communities, with the aim of rapidly increasing cycling and walking.

### Signature project three

#### Active towns

**SP 3.1** Pilot active towns programs in association with relevant state government agencies, local government and the bicycle industry. Evaluate outcomes, and if results are positive, expand to other towns and cities as funding becomes available.

#### Did you know?

Residents are more physically active in communities with pedestrian and bicycle-friendly infrastructure.



## Priority area four –developing a cycling economy

Not only does cycling help people stay fit and healthy, it can also deliver economic benefits. Through supporting cycle tourism initiatives, the Queensland Government can help attract more visitors to regional and coastal communities. With the right facilities, these places become a cycling holiday destination of choice.

In addition, the strategy proposes support for the bicycle industry to continue to provide and expand bicycle availability. Cycling for sport and recreation is also supported, in recognition of the growing popularity of mountain biking, road riding and BMX.

Recreation trails are the signature project for this priority area. Recreation trails aim to vitalise local economies by continuing to construct trails that encourage walking, cycling and horse riding. Recreation trails bring more visitors to areas. They also support local residents and visitors to become healthier through physical activity.

### Did you know?

Cyclists currently save the economy \$63.9 million per year in reduced congestion costs and \$9.3 million in greenhouse gas emissions.

### Signature project four

#### Recreation trails

**SP 4.1** Develop and deliver recreation trails and coastal pathways through partnerships with local governments and communities to support local economies and increase recreational cycling opportunities.

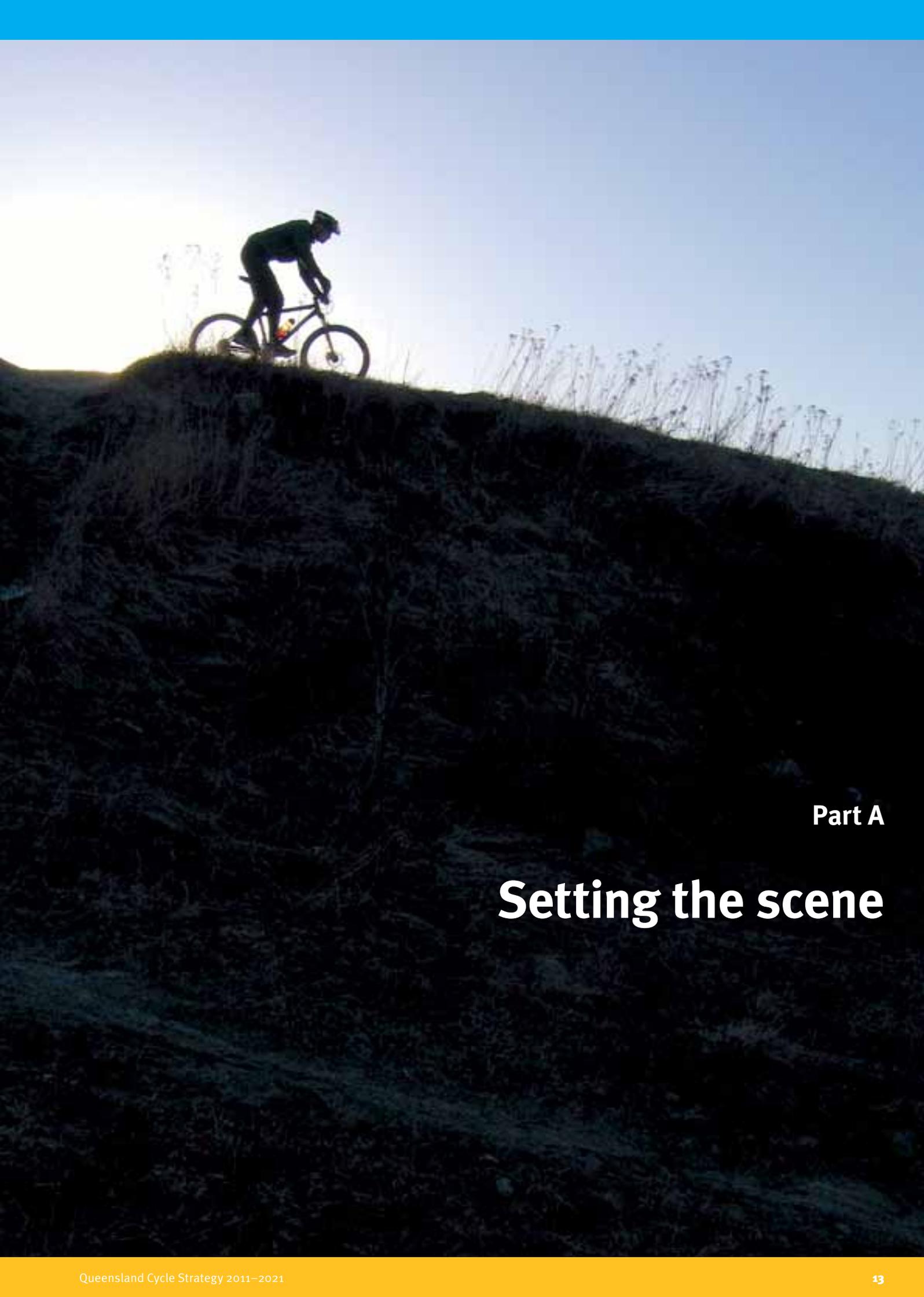
## Implementing the strategy

The *Queensland Cycle Strategy 2011–2021* is a whole-of-government strategy. It has been developed collaboratively by state and local governments in consultation with the cycling industry and bicycle user groups.

Because so many diverse groups are involved in achieving cycling outcomes, a coordinated approach to strategy implementation is essential. This includes regular progress reporting through an annual report card, and the development of detailed performance indicators to measure the success of all priority areas in the strategy.

The strategy aims to implement additional funding programs, as well as focus existing funding programs to ensure the strategy's vision and targets are achieved.





**Part A**

# **Setting the scene**

## About the Queensland Cycle Strategy

Getting people cycling more often for more types of trips will make our cities and towns more sustainable, vibrant and friendly.

Supporting cycling as an attractive way to travel means more people can enjoy this affordable, practical and healthy transport choice that offers door-to-door convenience.

More cycling can help manage congestion, improve quality of life and reduce pollution. In many parts of Queensland, cycling can provide affordable access to jobs and services for people who cannot easily access public transport or a car.

Cycling is also a popular fitness and recreational activity.

The *Queensland Cycle Strategy 2011–2021* builds on the significant Queensland Government commitments to cycling that are already in place. In 2010, the *Queensland Growth Management Summit* included an action to release a new Queensland Cycle Strategy.

The strategy will support the achievement of objectives in the government's state-wide plan *Toward Q2: Tomorrow's Queensland* that focuses on:

- making Queensland greener by reducing car use
- making Queenslanders healthier by reducing obesity.

The strategy will also help reduce greenhouse gas emissions from other forms of transport, supporting *Climate Q: toward a greener Queensland*.

Implementing this strategy involves state government agencies, local governments, local communities and businesses working in partnership.

As a whole-of-government strategy, funding and resources for implementation of the strategy are the responsibility of a range of agencies and are linked with multiple government strategies at local, state and national levels. It is anticipated that state agencies, local governments and other strategy partners will continue to incorporate cycling initiatives within existing policy and program priorities, and will seek additional funding for specific projects as required.

## Achievements since 2003

Significant progress has been made since the previous *Queensland Cycle Strategy* was released in 2003. Parts of the state are showing that investment in safe, direct and connected cycling facilities, combined with promotion, gets more people cycling.

The new *Queensland Cycle Strategy 2011–2021* will build on these investments and achievements. Some of the key achievements delivered since the release of the previous strategy are detailed below.

### Cycling infrastructure

Ensuring connected networks are in place is a critical factor to achieving more cycling. Recent infrastructure improvements include:

- delivering new cycling facilities across Queensland since 2006, by building cycling facilities as part of state road projects
- retrofitting 295 kilometres of cycle network since 2006 in partnership with local governments in south-east Queensland
- providing \$40 million over 15 years to support road, BMX, mountain bike and elite cycling infrastructure, through the Sport and Recreation Infrastructure Program
- setting the standard for new types of end-of-trip facilities, through the delivery of the Royal Brisbane and Women's Hospital and King George Square cycle centres
- requiring end-of-trip facilities to include secure bike racks, lockers and change rooms where cyclists, joggers and walkers can shower, change and secure their belongings
- providing \$44 million in funding over the last 10 years for the delivery of safe cycling and pedestrian

infrastructure around schools, through the *Transport Infrastructure Development Scheme*

- completing 100 kilometres of the Brisbane Valley rail trail through local, state and federal government and community collaboration
- implementing green bicycle lanes across Cairns to improve safety at problem crash locations.

Local governments across Queensland are also delivering infrastructure for cycling and walking.

### Cycling culture

A cycling culture is growing in Queensland, supported by events, behaviour change programs and information, such as:

- Bike Week, the nine-day Cycle Queensland ride, Gold Coast Cycle Challenge, Ride to Work and Ride to School
- delivering the TravelSmart Communities program – the Brisbane North project involved about 75 000 households and achieved a 50% increase in cycling trips
- working in partnership with local government to deliver TravelSmart Schools projects – the Noosa program achieved a 25% increase in cycling to school and cycle skills training was provided to 1100 year four students
- Share the Road campaign to encourage motorists to drive safely around cyclists and cyclists to obey the road rules
- 70% of local governments actively promoting walking and 50% actively promoting cycling through a range of activities
- publishing local government cycling and TravelSmart maps.

### Planning for improved cycling infrastructure

Bicycle network planning is supported by:

- including a Desired Regional Outcome of Integrated Transport in the *South East Queensland Regional Plan* which incorporates policies to promote public transport use, walking and cycling
- developing *Principal Cycle Network Plans* for south-east Queensland and far north Queensland
- including cycling infrastructure in the *Queensland Transport and Roads Investment Program* which provides for the coordinated delivery of transport infrastructure across Queensland including integrated transport networks that support active transport
- supporting local governments to update their cycle network plans as part of *Cycle Network Program* funding and *Sport and Recreation Services Local Sport and Recreation Program*
- publishing the *Active and Healthy Communities* guidelines for local governments to create supportive environments for physical activity and healthy eating
- installing counters to collect cyclist and pedestrian numbers across the cycle network in south-east Queensland.

### Providing technical guidance and support

Quality cycling facilities are supported through:

- developing cycle notes and other technical guidance that assist state and local government planners and engineers to deliver best practice cycle facilities tailored to local requirements

- publishing *A Guide to Signing Cycle Networks* and accompanying cycle note *Producing Bicycle Network Maps and Cycling Transport Access Guides* to support the provision of consistent and legible directional and information signage for cycle networks across the state
- providing training to over 300 designers and engineers over three years through the *Designing for Pedestrians and Cyclists* course.

### Cycling research

Research efforts that support cycling include:

- working with the Queensland University of Technology on a cyclist visibility study. The study found that using lighting and reflective clothing on moving parts of the body while cycling can significantly improve visibility of cyclists to motorists<sup>1</sup>
- investigating the effect of road lane width on cyclist safety in urban areas<sup>2</sup>
- funding a Griffith University study to examine the barriers to cycling, particularly how neighbourhood design influences cycling participation
- collecting and analysing cyclist and pedestrian traffic data.

<sup>1</sup> Wood, J., Lasherex, P., Marszlaek, R. and King, M. (2009), "Drivers' and cyclists' experiences of sharing the road: incidents, attitudes and perceptions of visibility", *Accident Analysis and Prevention*, 41(4), 772-776.

<sup>2</sup> Schramm, A. and Rakotonirainy, A. (2009), *The effect of road lane width on cyclist safety in urban areas*, Paper presented to Australasian Road Safety Research, Policing and Education Conference, 10 -13 November 2009, Sydney, New South Wales.

## South-east Queensland

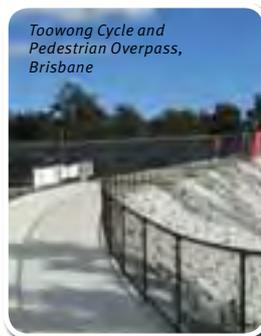
Since the first regional cycle network plan for south-east Queensland was released in 2003, progress has been made in delivering new cycle links across the region. Highlights include:

- Goodwill Bridge, Gardens Point to Southbank
- Kurilpa pedestrian and cycle bridge from North Quay to South Brisbane
- Toowong pedestrian and cycle link across the Centenary Motorway
- Normanby cycle and pedestrian facility
- Gateway cycleway pedestrian and cycle facility
- Brassall bikeway from Brassall to Ipswich CBD
- Ted Smout Bridge cycleway
- Princess Alexandra Hospital bikeway beside the Boggo Road busway
- Eleanor Schonell Bridge pedestrian and cycle facility from the University of Queensland to Dutton Park
- Bicentennial bikeway upgrade at Milton
- Eenie Creek Bridge and cycleways in Noosa
- cycle centres at King George Square and Royal Brisbane and Women’s Hospital busway stations
- progressive delivery of V1 bikeway from Brisbane CBD to Eight Mile Plains
- pedestrian and cycle crossings of the Brisbane River at Jindalee and Indooroopilly.

The Queensland Government’s climate change strategy, *ClimateQ: Toward a greener Queensland*, recognises the key role that cycling can make towards reducing transport greenhouse gas emissions in its ‘Faster, Better, Safer Walking and Cycling initiative’ to identify and fill gaps in the inner-city cycle network.



Eenie Creek cycleway, Noosa



Toowong Cycle and Pedestrian Overpass, Brisbane



Bicentennial bikeway upgrade, Brisbane



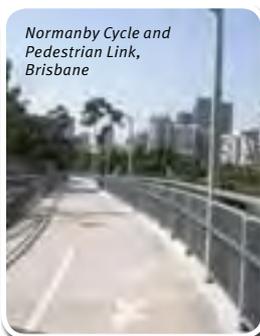
Ted Smout Bridge cycleway, Redcliffe



Brassall bikeway, Ipswich



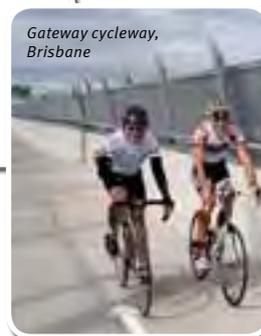
Red Bridge, Logan



Normanby Cycle and Pedestrian Link, Brisbane



Royal Brisbane and Women's Hospital cycle centre, Brisbane



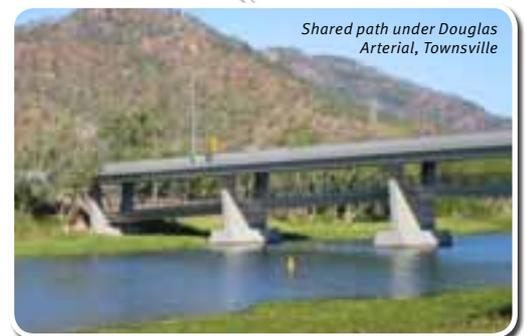
Gateway cycleway, Brisbane



## Cycling across Queensland

Highlights include:

- Cairns inner-city cycle facility from the CBD to Aeroglen, providing a high quality commuter facility and demonstrating safe implementation of cycling facilities within a rail corridor
- safety upgrades on the Captain Cook Highway near Cairns, including 1.5 metre wide shoulders for cyclists, as well as reduced speed limits, green paint and rubber kerbs at the roundabouts to separate cyclists and other vehicles
- construction of cycle lanes on Mulgrave Road in Cairns as part of the upgrade, including bicycle push buttons to activate traffic signals and a trial protected cycleway
- initiation of the ‘bike bus’ program, allowing groups of students to safely travel to school on a specified route with supervisors
- provision of cycle lanes to the University of Southern Queensland, Toowoomba
- provision of cycle lanes and bicycle traffic signal push buttons in Roma
- completion of the 21 kilometre Bluewater Trail in Mackay.



# Cycling in Queensland today

## Why do people cycle?

More people associate cycling with recreation and exercise than as a transport choice for journeys to work, school or education.

However, people who cycle to work, school or education facilities ride more often than the majority of people who only cycle for recreation and exercise (Figure 1).

Historical travel trends of residents in greater Brisbane show the share of cycling trips for work-related purposes increased significantly from 21% in 1992 to 36% in 2009 (Figure 2).

A survey of people’s main considerations when choosing how to travel found that many of the reasons people cycle are similar to why people drive. The top six things people consider important when choosing a transport mode are the same for cyclists and drivers (Figure 3).

Figure 2 – cycling by trip purpose for greater Brisbane

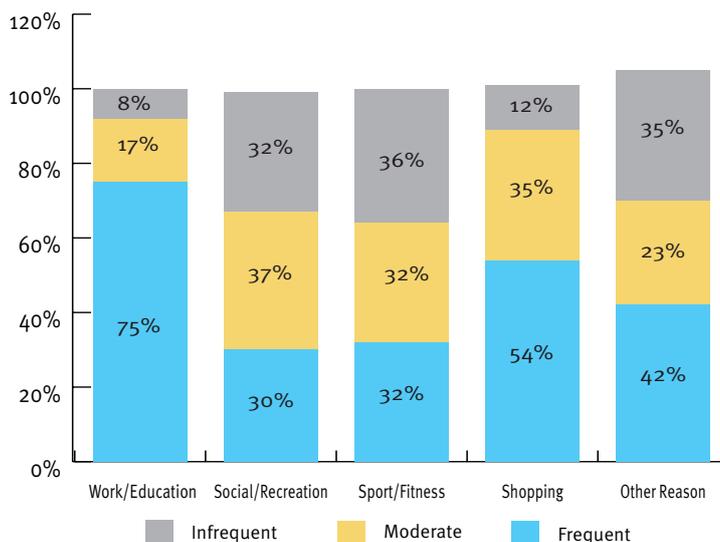


Source: Department of Transport and Main Roads (2010), *Transport User Analysis of south-east Queensland residents*.

### Cycling facts

- In 2011, it is estimated that 814 000 people ride a bike in Queensland each week (18% of residents).
- In 2011, it is estimated that close to 60% of Queensland households have access to a bicycle.
- In 2010, Australians bought more than 1.3 million new bicycles, compared to one million cars, making it the eleventh year in a row that bicycle sales outstripped car sales.
- In 2009, more than 364 000 Queenslanders rode a bike for recreation, exercise or sport – an 11% increase from the previous two years.

Figure 1 – main reason for cycling against frequency of use for south-east Queensland residents



Source: Department of Transport and Main Roads (2010), *Transport User Analysis of south-east Queensland residents*.

Figure 3 – considerations for car driver and cyclist travel choice

Consideration in choosing how to travel	Car drivers	Cyclists
Reliability (consistent travel time)	Top 1-3	Top 1-3
Able to leave anytime	Top 1-3	Top 1-3
Ease of access from home	Top 1-3	Top 1-3
Convenience	Top 4-6	Top 4-6
Flexibility	Top 4-6	Top 4-6
Able to go anywhere	Top 4-6	Top 4-6
Shortest travel time	Top 7-10	Top 7-10
No waiting time before travel	Top 7-10	Top 7-10
Protection from weather	Top 7-10	Top 7-10
Cost	Top 7-10	Top 7-10
Comfort	Top 7-10	Top 7-10
Familiarity	Top 7-10	Top 7-10
Stress	Top 7-10	Top 7-10
Safety	Top 7-10	Top 7-10
Make the best use of travel time	Top 7-10	Top 7-10

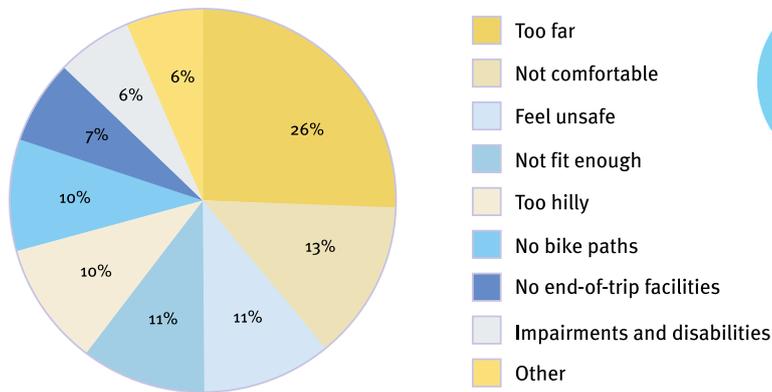
Source: Department of Transport and Main Roads (2010), *Transport User Analysis of south-east Queensland residents*.

- Top 1-3
- Top 4-6
- Top 7-10

## Encouraging more cycling

Figure 4 illustrates the barriers to cycling reported in a survey of south-east Queensland residents. Many barriers relate to the quality of infrastructure (feel unsafe, no bike paths, no end-of-trip facilities).

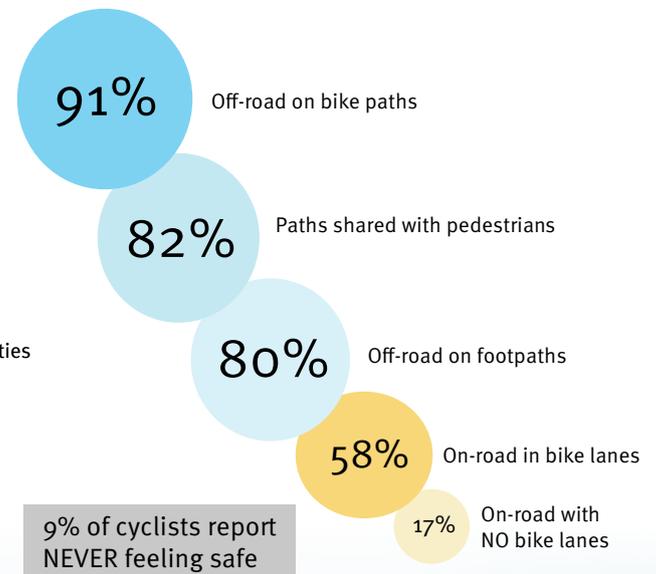
Figure 4 – barriers to cycling



Source: Department of Transport and Main Roads (2010), *Transport User Analysis of south-east Queensland residents*.

People consistently report they would walk and cycle more if there were safer facilities, with 91% of cyclists reporting they feel safe when cycling on off-road paths (Figure 5).

Figure 5 – situations where cyclists report feeling safe



Source: Queensland Transport (2009), *Sustainable Transport Survey*.



Goodwill Bridge, Brisbane

## Cycling for the commute to work

Data for cycling participation across Queensland is collected as part of the Australian Bureau of Statistics census which captures journey to work. The census is carried out every five years, with the most recent data from 2006.

In 2006, about 20 000 people cycled to work on an average weekday in Queensland. Despite population growth, this number has declined from about 23 000 in 1991.

On average, 1.1% of white collar workers and 1.8% of blue collar workers cycle to work each day.

There is significant variation in cycling participation rates for the commute to work across the state, with parts of Brisbane as low as 0.5% and parts of Cairns at 10%.

Cycling participation rates for the commute to work have declined across all the major towns and cities since 1996, with the exception of inner Brisbane (Figure 6). This increase is related to the provision of cycling infrastructure that delivered safe, direct and connected routes.

## Boosting cycling through infrastructure improvements

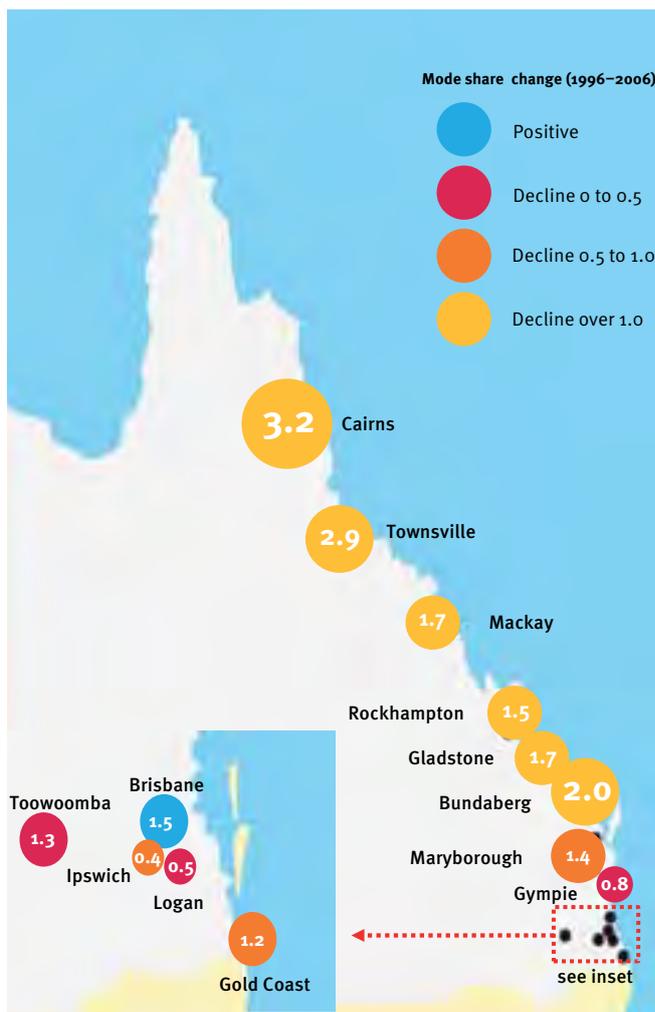
There has been significant investment in cycling infrastructure to provide direct, off-road connections to Brisbane’s CBD (particularly from the south and west).

Investment has seen increased levels of cycling participation in suburbs surrounding these quality facilities.

Between 1986 and 2006, the share of cycling trips to work in the CBD increased from 0.5% to 3% for suburbs within 12 kilometres of the city (Figure 7) – a five-fold increase.

Cycling increases were higher in southern and western suburbs, highlighting the positive influence of dedicated cycle facilities in attracting more people to cycling.

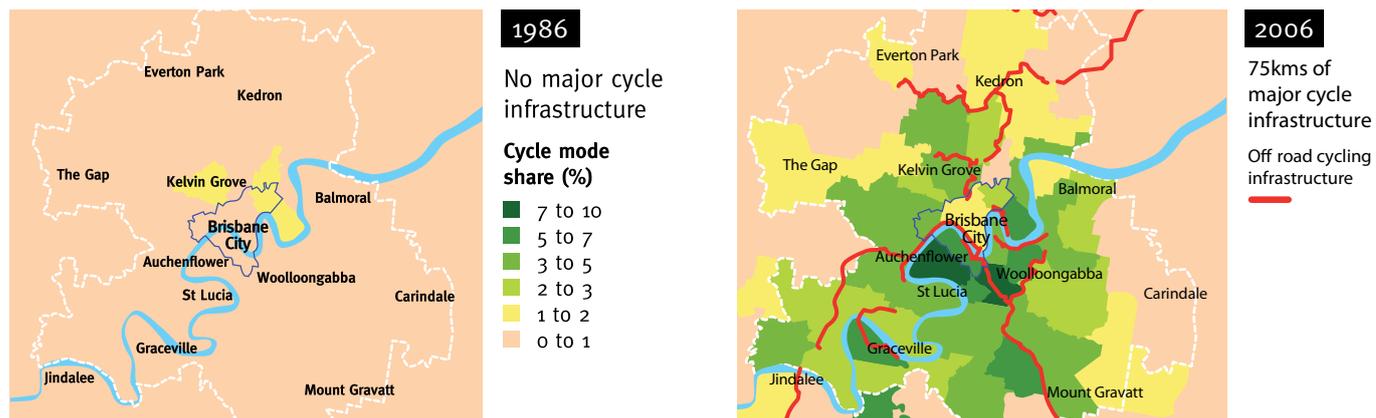
Figure 6 –commute to work cycling mode share (by local government area)



Between 2001 and 2006, cycle trips to work in the south and west increased from 3.1% to 3.7%, as people could more easily access the CBD from suburbs south of the river with the opening of the Goodwill Bridge. By comparison, Brisbane’s northside mode share only increased from 1.9% to 2.2%.

In 2006, inner Brisbane suburbs such as West End and Woolloongabba experienced more than 7% of journeys to work by bicycle.

Figure 7 – change in cycling mode share around key infrastructure in inner Brisbane



# Growing cycling in Queensland

## Vision

Our vision for cycling in Queensland is:

**more cycling,**  
more often  
on safe, direct and connected routes

Achieving this vision would mean:

- Queenslanders of all ages and abilities can make the choice to cycle for transport, recreation, fitness and health
- residents in Queensland cities and towns can ride on safe, direct cycle routes with secure bicycle parking at their destination
- school and university students have safe and direct cycling routes, with secure bicycle parking
- cycling is supported by all levels of government and the community.

## Policy linkages and opportunities

### Incorporating a health benefit into daily travel

Cycling is a convenient, safe and attractive option for many trips, encouraging more people to make active travel choices as part of daily travel. This will contribute to the *Toward Q2* target to cut obesity by one-third across Queensland.

### Providing an affordable and convenient travel choice

Many Queenslanders can easily access goods, services, facilities and jobs by safe, direct cycle connections.

### Protecting the environment and transitioning to a low carbon future

Greenhouse gases and other environmental emissions are reduced by increasing levels of cycling. This supports the *Toward Q2* target to cut Queenslanders' carbon footprint by one-third through reducing car and electricity use.

### Managing congestion

By encouraging people to replace some car trips with cycling, congestion can be better managed.

### Making transport more resilient to oil shortages

By establishing cycling as an attractive travel choice, the vulnerability to reduced oil supply and rising oil prices can be minimised.

## Targets

The *Queensland Cycle Strategy 2011–2021* target is to get more people to cycle more often for school, work, recreation, shopping and social trips.

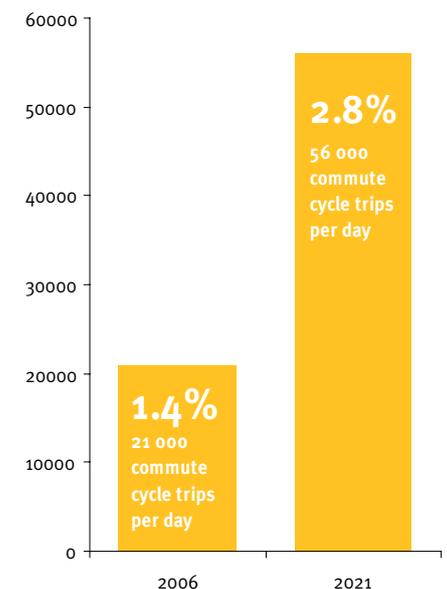
Currently there is no state-wide data available that tracks how often people cycle for all types of trips.

Until this becomes available, progress on the strategy will be tracked through a target to double cycling's share of commute trips to work by 2021, and triple these trips by 2031.

Figure 8 – cycling commute to work targets

With population growth, doubling the commute trips by bicycle by 2021 will mean a 180% increase in the number of weekday work trips by bicycle (Figure 8).

The strategy will monitor the percentage of females cycling to work. Internationally, the proportion of females riding is recognised as an indicator of the 'friendliness' of cycling environments. In 2006, only 19% of cycling journeys to work in Queensland were made by females.



Targets for other cycling trips will be established as state-wide data becomes available.

The strategy provides a basis for setting targets at regional and local government levels through more detailed planning processes, such as *Integrated Regional Transport Plans* and local government transport plans. The state-wide targets should be considered as a minimum.

Achieving progress towards the *Queensland Cycle Strategy 2011–2021* targets will contribute directly to *Toward Q2: Tomorrow's Queensland* green and healthy targets.

### Did you know?

Cycling five kilometres to and from work each day instead of driving would save about 720 kilograms of greenhouse gas emissions per year – 5% of the average Queensland household's greenhouse emissions.

## Priority areas

The *Queensland Cycle Strategy 2011–2021* has four priority areas for action. The strategy sets out a signature project for each priority. These signature projects will focus implementation to achieve the vision of ‘more cycling, more often’.

Each priority area is also supported by a set of actions designed to help achieve the strategy vision and targets. These actions have short, medium or long-term timeframes for implementation, or are existing and will be continued.

### 1 Building safe, direct and connected cycle networks

Safe, direct and connected cycle networks will provide facilities to support the many trips for which the bicycle is a viable, convenient and enjoyable transport choice. This includes:

- building connected cycle networks
- developing cycle network plans
- making cycling a part of all government infrastructure projects.

#### Signature project one – Connected networks for cities and towns across Queensland

**SP 1.1** Develop a delivery program in partnership with local government for strategic cycle networks, Complete 5, Educated Ways and Connect To, updated annually as part of the *Queensland Transport and Roads Investment Program*.

**SP 1.2** Focus criteria for existing and new cycling infrastructure-related funding programs on delivering strategic cycle network routes, Complete 5, Educated Ways and Connect To. Coordinate and streamline the application processes across the various funding sources.

### 2 Growing a cycling culture

A cycling culture is about Queensland being a place where cycling is widely supported, encouraged and celebrated. This includes:

- supporting travel behaviour change to boost cycling
- encouraging active school travel
- providing information and wayfinding
- promoting cycling and community education
- supporting cycling events
- engaging cycling change champions
- ensuring road rules and legislative frameworks support cycling.

#### Signature project two – bicycle education

**SP 2.1** Pilot and deliver nationally-accredited bicycle education programs suitable for children and adults.

**SP 2.2** Develop and maintain resources to inform and support schools, parents and carers when teaching children to ride.

### 3 Creating cycle-friendly communities

When communities and suburbs are designed to be ‘cycleable’ and ‘walkable’, the community as a whole can reduce its reliance on car travel. This includes:

- integrating cycling into planning and development
- including end-of-trip facilities in developments
- delivering a safe cycle network.

#### Signature project three – active towns

Active towns focus infrastructure provision and encouragement intensively in a small number of communities with the aim of rapidly increasing cycling and walking.

**SP 3.1** Pilot active town programs in association with relevant state government agencies, local government and the bicycle industry. Evaluate outcomes and, if results are positive, expand to other towns and cities as funding becomes available.

### 4 Developing a cycling economy

Developing a cycling economy is about inviting community and business to partner with government to take advantage of the value-adding benefits of cycling, it is also about supporting all forms of cycling including outdoor recreation and sport. This includes:

- supporting cycle tourism
- supporting the bicycle industry
- supporting recreation and sports cycling.

#### Signature project four – recreation trails

Recreation trails for walking, cycling and horse riding can vitalise local economies and have health benefits.

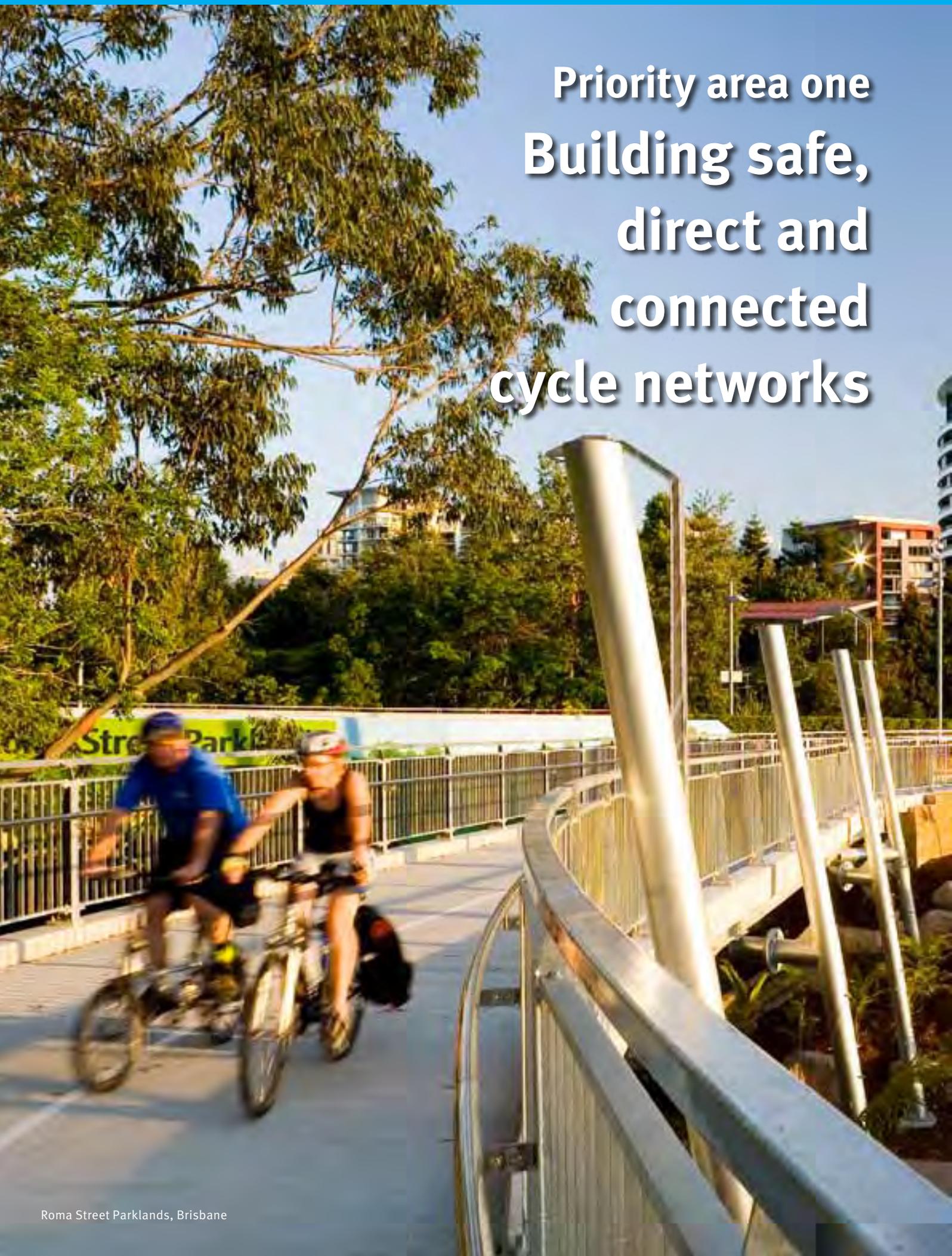
**SP 4.1** Develop and deliver recreation trails and coastal pathways through partnerships with local governments and communities to support local economies and increase recreational cycling opportunities.



Part B

# Priorities for action

# Priority area one Building safe, direct and connected cycle networks



Roma Street Parklands, Brisbane

Most trips in Queensland, even short ones, are made by car.

Cycling offers many advantages over driving, such as avoiding congestion and car parking costs.

At a comfortable cycling speed of 15 kilometres per hour, a trip of five kilometres becomes an easy 20 minute bicycle ride for most people.

Having safe and attractive bicycle routes to the places people need to go is the key to making cycling a desirable choice.

Where there is no public transport service, walking and cycling are often the only transport options available when people do not have access to a car. By making it easy to cycle, greater opportunities will be provided for people without a car (or who choose not to use their car) to access jobs, education, shopping and recreation.

The strategy will focus on providing facilities to activity centres, school and universities to support as many cycling trips as possible.

Activity centres are areas of employment, residential and/or retail activity. Larger cities can have several activity centres.

In Queensland, cycling on footpaths is permitted.

This expands the off-road cycle network, making it more attractive for existing cyclists, and is important in supporting new cyclists who are not comfortable cycling on busy roads.

Ensuring footpaths are cycle-friendly and wide enough to share with pedestrians, where possible, can support an expanded off-road network and help achieve ‘more cycling, more often’.

The action tables in the following section include an implementation priority. The intended timeframes are:

- Short: 2011 – 2013
- Medium: 2014 – 2017
- Long: 2018 – 2021
- Existing: current action.



## 1.1 Building connected cycle networks

**The Queensland Government will give priority to developing a connected network of safe active transport routes, with a focus on:**

- **improving active transport links to and between activity centres, tertiary education institutions and schools**
- **integrating cycling and walking with public transport.**

Levels of cycling are directly related to the quality of cycling infrastructure.

Communities with safe, direct and connected cycling routes demonstrate higher levels of cycling.

Cycling needs safe and attractive space in the transport system to function.

The principles for providing cycling infrastructure include:

- providing clearly defined operating space for cyclists through on and off-road cycling facilities
- ensuring the cycle network provides a high degree of connectivity and direct routes.

Delivering a connected network across the state means significant investment. It will take time to put all the links in place to provide continuous, direct cycling connections.

To prioritise delivery of a connected cycle network, the *Queensland Cycle Strategy 2011–2021* has a signature project – ‘Connected networks for cities and towns’.

This signature project will focus on delivering cycling networks for cities and towns with a population of more than 20 000 people.

For this reason, this initiative will target infrastructure funding to towns with the highest population, and greater traffic levels, and the need for safe and connected networks.

Boosting cycling in smaller towns is aided by their compact size and lower populations.

Less population translates into less traffic, meaning that cyclists can safely cycle on local streets.

This reduces the need for expensive cycling networks that are essential in larger cities to support more cycling.

Table 1.1 details actions to build connected cycle networks.

**Table 1.1 – building connected cycle networks**

Action	Description	Priority	Agency*
1.1.1	Review criteria for funding Safe School Travel to give highest priority to initiatives that support pedestrian, cyclist and bus access to schools.	Short	TMR
1.1.2	Incorporate trunk cycling and pedestrian networks into Priority Infrastructure Plans and Infrastructure Charges Schemes to ensure cycling facilities are delivered as part of the development process.	Existing	LG TMR
1.1.3	Continue to implement cycle network facilities in line with prioritised works programs.	Existing	LG TMR
1.1.4	Continue to manage funding programs which maintain eligibility to local recreational cycling facilities.	Existing	SRS LG
1.1.5	Improve safety for cyclists on key cycle routes by investigating areas in towns where car parking can be relocated, reconfigured or removed to make room for bicycle lanes, recognising that on these routes the safe and efficient movement of vehicles including bicycles has a higher priority than parking.	Medium	TMR LG
1.1.6	Continue to provide bicycle park'n'ride at public transport stations and stops.	Existing	TTA TMR
1.1.7	Investigate establishing bicycle hire outlets at major train stations.	Long	TMR LG
1.1.8	Provide local cycle and pedestrian links to new and upgraded public transport stations and stops as part of public transport infrastructure projects.	Short	TMR LG
1.1.9	Work with Austroads to enhance guidance on the design of local cycle and pedestrian-friendly streets into road design guidelines.	Existing	TMR
1.1.10	Develop good practice guidance and supporting traffic regulations for the design and implementation of protected cycleways and veloways; pursue a nationally consistent approach, where possible.	Medium	TMR
1.1.11	Pilot and evaluate protected cycleways and veloways, where appropriate.	Medium	TMR LG
1.1.12	Identify the whole-of-life cost of new cycle network facilities during design and project prioritisation, and ensure that the network owner incorporates the completed facility into its asset management program.	Existing	TMR LG
1.1.13	Apply maintenance minimisation principles in design and operation of new cycling facilities, such as selection of landscaping and urban design that minimises manual maintenance and path damage, and restricting heavy vehicles from driving across paths.	Existing	TMR LG
1.1.14	Pilot initiatives with private sector organisations to provide cycle connections and end-of-trip facilities to large industrial workplaces.	Medium	TMR LG

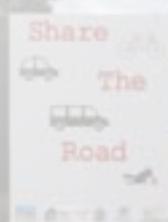
\*Refer to the glossary on page 82

## Success story – Cairns cycling infrastructure

The first protected cycleway on the state-controlled road network was delivered in Cairns in 2009. It provided an off-road bike path located between the footpath and the angle or parallel parking bays on Mulgrave Road, as part of the road upgrade.

In addition, a \$1.8 million roundabout upgrade program on the Captain Cook Highway north of Cairns included rubber kerbing and dividers to separate cyclists and other vehicles.

The kerbing, in conjunction with a reduced speed limit at the roundabout, was used for the first time in this way on the state-controlled road network. This encouraged motorists to slow down and stay within their lane.





Northern cycleway

### Separating cyclists from cars – on track to protected cycleways

To encourage more people to take up cycling, cycle facilities are needed that are safe and attractive to the widest possible range of users.

Protected cycleways are physically separated from motor vehicle traffic by kerbs and/or parking.

Protected cycleways promote accessibility and safety for cyclists.

Some Australian cities have delivered protected cycleways, recognising that these are one of the best ways to encourage new cyclists.

### Veloways

The veloway concept is about cycling infrastructure that is wide enough to cater for at least two cyclists riding side by side, with space for faster moving cyclists to safely overtake.

These facilities encourage people of all ages and abilities to ride, for sports training, a social trip, or commuting.

Veloways provide a very high standard cycling facility (wide path, straight alignment, good sight lines) and are intended for major cycling links where high numbers of cyclists are expected. Veloways are generally designed for higher travel speeds.

### A northern cycleway for Brisbane City

An investigation is underway to identify the route for a north Brisbane cycleway. The cycleway will provide a high quality cycle corridor from the CBD to Kedron and ultimately Chermide, integrated with existing land uses and future growth. It will separate cyclists from other traffic.

It will connect cycle facilities that are being delivered as part of the Airport Link project at Bowen Hills, through Albion and Woolloowin, linking into the existing bikeway at Kedron Brook and the Royal Brisbane and Women's Hospital cycle centre.

## 1.2 Developing cycle network plans

Ensuring the right planning is in place is an important part of delivering a connected network. Cycle network plans aim to:

- connect destinations by a direct and safe cycle network
- address barriers to cycling
- guide infrastructure delivery in the area.

Cycling facilities can be progressively delivered through a range of mechanisms, such as:

- building cycling facilities as part of new road and public transport infrastructure
- making provision for cyclists during road maintenance and upgrades
- incorporating cycling facilities into planning and development of new communities
- developing specific projects to provide on and off-road cycling facilities.

### Cycling in Regional Plans

The Department of Local Government and Planning is progressively preparing regional plans across Queensland.

Regional plans incorporate strategies which support active transport and promote the development of cycle network plans. Regional plans may identify principal cycle networks as part of transport network maps.

### Principal Cycle Network Plans

The Queensland Government will prepare and implement *Principal Cycle Network Plans* in partnership with local governments to guide the development of principal cycle routes and regional recreation routes across the state.

South-east Queensland and far north Queensland currently have *Principal Cycle Network Plans* in place.

### Local government cycle plans

Local government active transport networks should complement principal cycle network routes.

Together, the *Principal Cycle Network Plans* and local government cycle plans in each region, will form the basis for Infrastructure Charges Schedules and cycle overlay maps for planning schemes.

Table 1.2 details actions to support the delivery of cycle network plans.



### Cycle network planning principles

Providing a safe, direct and coherent cycle network is pivotal in getting more people cycling, more often. Principal cycle network routes need to be available at regular intervals within the road system to ensure a connected and convenient cycle network. When considering the density and standards of cycle networks, the following principles can be applied:

- Ideally for principal or arterial cycle connections, a network of cycle routes spaced no more than 1000 metres apart should be identified (regional plans and *Principal Cycle Network Plans*).
- For secondary or district cycle connections, a network of cycle routes approximately 200–500 metres apart should be provided to support the principal routes (local government cycle network plans).
- The type of bicycle facilities provided should be determined by the form, function and use of the cycle route relative to the road environment and the range of likely users.

**Table 1.2 – cycle network strategies and plans**

Action	Description	Priority	Agency*
1.2.1	Continue to prepare <i>Principal Cycle Network Plans</i> for all regions in Queensland.	Short	TMR
1.2.2	Review and update <i>Principal Cycle Network Plans</i> on a regular basis: <ol style="list-style-type: none"> <li>major review every five years</li> <li>mapping updates coordinated with local government access audits.</li> </ol>	Existing	TMR
1.2.3	Publish recommended standards for cycle facilities as a companion document to <i>Principal Cycle Network Plans</i> and integrate these standards into national and state road design standards.	Medium	TMR
1.2.4	Prepare local cycle network plans to identify a grid of local seamless connections which provide access to the principal cycle network to guide planning schemes and works programs.	Short	LG

\*Refer to the glossary on page 82

## 1.3 Making cycling a part of all government transport infrastructure projects

**Incorporating cycling and walking facilities into new road and other transport infrastructure projects is a cost-effective way to deliver new active transport facilities.**

Providing for, and building, multi-modal transport networks where all road users are accommodated is the best value investment. There are many opportunities to provide, connect and improve cycling and walking facilities as part of transport projects, especially in urban areas.

The Queensland Government introduced a policy on cycling on state-controlled roads in 2004, requiring implementation of cycle network facilities as part of road projects. Significant cycle network facilities that have been delivered include:

- Gateway cycleway at a cost of \$36 million
- Ted Smout Bridge cycleway at a cost of \$22 million
- Centenary Motorway cycleway at a cost of \$2.35 million
- cycleway provision in all stages of the Ipswich Motorway Upgrade.

Other road upgrades and maintenance also incorporate cycling facilities on principal cycle networks. For example, to date, road re-seals, shoulder widening and shifting linemarking have resulted in

additional new cycling facilities across Queensland on the state-controlled road network.

The Queensland Government has extended the *Cycling Infrastructure Policy* to apply to all relevant transport infrastructure projects, whether roads, rail or bus assets. To ensure the best value for the community, wherever the Queensland Government delivers transport infrastructure along a corridor included in a *Principal Cycle Network Plan* or local government cycle network plan (to which a Queensland Government agency is signatory), positive provision will be made for cycling to ensure routes are constructed as part of works.

For transport infrastructure projects, positive provision means bicycle lanes, bicycle paths or shared paths. The policy recognises that facilities are needed to cater for the full range of new and experienced cyclists. Exactly what facilities and connections are needed is determined in the project planning phase.

Where cycling provision is off-road and/or at public transport stations and stops, positive provision also includes facilities such as direction signage, lighting, and mid-trip and end-of-trip facilities, including bicycle parking. Where demand is identified, provision for pedestrian access should also be included, especially to public transport.

Outside of the principal cycle networks, cycle-friendly provision will be made to deliver safe operating space for bicycles.

As with all transport construction and maintenance projects, planning and investment in cycling will be subject to consultation, safety considerations, competing priorities, obtaining value for money, and realising benefits.

Provision of cycling facilities via the *Cycling Infrastructure Policy* complements dedicated funding programs which retrofit cycling facilities, where no other transport projects are planned. Over the life of this strategy, the two approaches will result in a transport network that is accessible and attractive for cyclists.

Responsibility for ongoing maintenance costs associated with all new cycling infrastructure, regardless of the constructing authority, will be negotiated on a case-by-case basis.

A similar policy approach can be applied to locating new facilities or buildings. For example, Queensland Health has issued its *Ecologically Sustainable Health Care Facilities Policy: Implementation Standard – Transport* to prepare Transport Travel Plans and ensure health care facilities are accessible by public transport, walk and cycle connections and provide end-of-trip facilities.

Table 1.3 details actions to deliver cycling as part of projects.



**Table 1.3 – making cycling a part of all government transport infrastructure projects**

Action	Description	Priority	Agency*
1.3.1	Implement the <i>Cycling Infrastructure Policy</i> to provide for cycling as part of all government transport infrastructure projects on corridors identified in <i>Principal Cycle Network Plans</i> .	Short	TMR
1.3.2	Continue to implement cycling facilities as part of state government transport infrastructure projects and seek consistency in cycling provision and level of service on state and local government transport infrastructure.	Existing	TMR
1.3.3	Ensure works on urban roads, where possible incorporate the following cycle-friendly features: <ul style="list-style-type: none"> <li>a. no squeeze points</li> <li>b. traffic islands set back from edge lines</li> <li>c. wider kerbside lanes for cyclist use</li> <li>d. safe crossing points.</li> </ul>	Short	TMR LG
1.3.4	Incorporate cycling facilities into project scoping and development for minor works in line with the <i>Cycling Infrastructure Policy</i> .	Short	TMR
1.3.5	Include active transport access from catchment areas as a high priority criteria in the location of new schools, hospitals and other government buildings, and ensure the design and construction provides access through pathways, bicycle parking and end-of-trip facilities.	Short	DPW QH DET TMR LG
1.3.6	Ensure cycle-friendly design is considered in the provision of rural roads, including at intersections.	Existing	TMR LG
1.3.7	Establish cycle network facilities in active rail corridors by: <ul style="list-style-type: none"> <li>a. investigating barriers to providing cycling facilities within rail corridors</li> <li>b. preparing technical policies and detailed guidance to support provision of cycling facilities and resolve identified barriers, such as maintenance access, rail operations and safety</li> <li>c. piloting and evaluating provision of cycling facilities in existing rail corridors which allow a range of typical corridor types and issues to be tested</li> <li>d. incorporating cycle network facilities into planning new rail lines and upgrades as well as on existing corridors, where practical.</li> </ul>	Medium	TMR Queens- land Rail LG
1.3.8	Investigate ways to improve facilities for the carriage of bicycles on trains.	Long	TTA Queens- land Rail
1.3.9	Incorporate cycle networks into asset management policies, strategies and systems, including: <ul style="list-style-type: none"> <li>a. conducting a regular asset inventory</li> <li>b. prioritising programmed maintenance works to achieve a suitable level of service across the network, including surface quality, safe path edges, path and bike lane sweeping and vegetation clearance.</li> </ul>	Medium	TMR LG

\*Refer to the glossary on page 82



# Signature project one

## Connected networks for cities and towns across Queensland

**SP 1.1** Develop a delivery program in partnership with local government for strategic cycle networks, Complete 5, Educated Ways and Connect To, updated annually as part of the *Queensland Transport and Roads Investment Program*.

**SP 1.2** Focus criteria for existing and new cycling infrastructure-related funding programs on delivering strategic cycle network routes, Complete 5, Educated Ways and Connect To. Coordinate and streamline the application processes across the various funding sources.

Most Queensland cities and towns have significant potential for many more trips to be made by bicycle, whether for work, school, shopping or recreation.

In towns of over 20 000 people, there is a need for good quality, direct cycle network links to make cycling an easy and attractive choice.

Queensland's population is highly concentrated, with about 80% of people living in cities and towns with a population of more than 20 000.

Within these cities and towns, about three-quarters of the population live within five kilometres of the major activity centres.

This signature project proposes to replicate the successful *South East Queensland Cycle Network Program* to progress delivery of connected cycle networks in regional cities and towns across Queensland. The maps on the following pages encompass all cities and towns in Queensland with a population greater than 20 000 people.

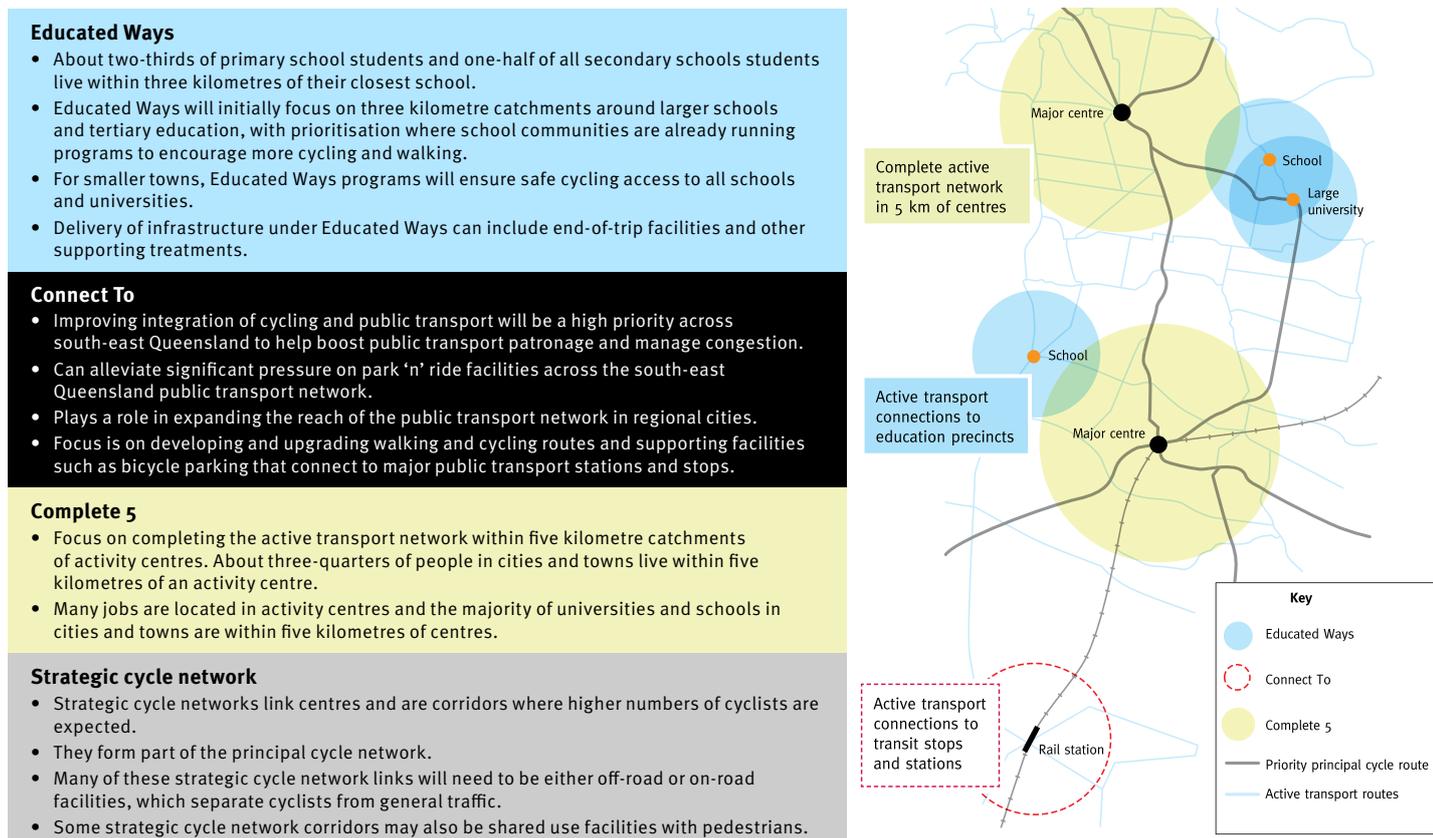
Delivery of infrastructure will be guided by *Principal Cycle Network Plans* (where they are available), with priority given to projects that fit into one of the following categories:

- **Strategic cycle network** – links to connect centres and key attractors – some of these routes may be protected cycleways or veloways.

- **Complete 5** – completing the Principal Cycle Network within five kilometres of key centres to deliver a connected cycle network.
- **Educated Ways** – ensuring safe and connected routes are provided for major schools, universities and TAFEs, focusing on a three kilometre catchment around these institutions.
- **Connect To** – putting cycle links in place to key public transport stations and stops (up to five kilometre radius), supported by bicycle parking and other end-of-trip facilities.

Figure 9 illustrates these categories.

**Figure 9 – strategic cycle network, Complete 5, Connect To and Educated Ways**



# Cairns

Cairns can anticipate considerable population growth over the next 20 years. While car trips form the principal mode of transport, there is existing support for active transport in Cairns. Between 1996 and 2006 there was a decrease in active transport mode share in Cairns. This drop is reversible with the right measures. Central Cairns has over 10% of journeys to work by cycling – the highest in the state. Many areas in Cairns have a high potential for shifting commuters to walking and cycling, with one-in-three residents travelling five kilometres or less to work.

With 55% of Cairns residents overweight or obese, supporting people to be more active as part of daily travel can make an important contribution to overall community health. About 40% of people living in Smithfield and the Northern Beaches

are employed locally. However, in other parts of Cairns, few residents have opted to live close to where they work, or vice versa. Even though the trip distribution spreads across a considerable area, there is a clear centre, with the CBD and adjacent Westcourt/Portsmith attracting almost 50% of total work trips from all suburbs.

## Key projects to complete the strategic cycle network

While parts of the cycle network in Cairns are already in place, establishing a high quality network linking the centres is a priority. A *Principal Cycle Network Plan* has been developed for far north Queensland which identifies the existing and future regional cycle network. Priority strategic cycle connections are shown in Figure 10.

## Educated Ways

Cairns is a model for getting more students cycling to school through ‘bike bus’ programs.

With 73% of primary school students and 41% of secondary school students living within three kilometres of their nearest school, there is potential to boost the number of trips to school by cycling.

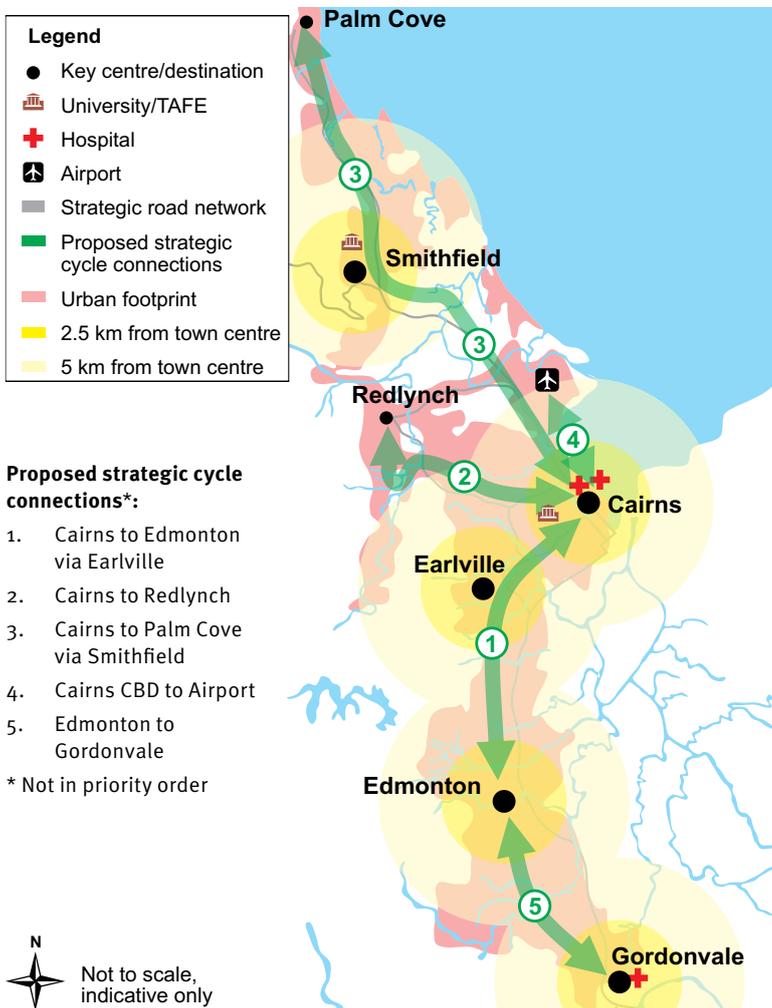
## End-of-trip facilities

This will include the integration of end-of-trip facilities, such as bicycle parking, showers and lockers in buildings. Cycle centres or facilities with secure bicycle parking and showers could be trialled in the CBD and Westcourt/Portsmith.

## Connect To

This would prioritise the placement of end-of-trip facilities and cycle connections to support the integration of active transport with public transport.

Figure 10 – strategic cycle network priorities for Cairns



147 000	2010 population	🚴
+44%	2031 growth forecast	
3.0%	commute mode share	🚴
▼	mode share trends	
35%	Per cent of commute trips less than 5 km	
77%	Per cent of population within 5km of key centres	
14 700	Number of commute trips to Cairns CBD	
119	Average annual rain days	☁️🌧️
Flat	Topography	
55%	Per cent of population overweight or obese	

# Mount Isa

Mount Isa can anticipate moderate population growth over the next 20 years.

Car trips form the predominant mode of transport. Almost 3% of commute trips are made by cycling.

With about 63% of Mount Isa residents overweight or obese, supporting people to be more active as part of daily travel can make an important contribution to overall community health.

## Key projects to complete the strategic cycle network

Mount Isa has some cycle facilities in place. Building on the existing network and providing high-quality links between centres will support more cycling. Some key cycle routes to link centres are identified in Figure 11.

## Cycle Network Planning

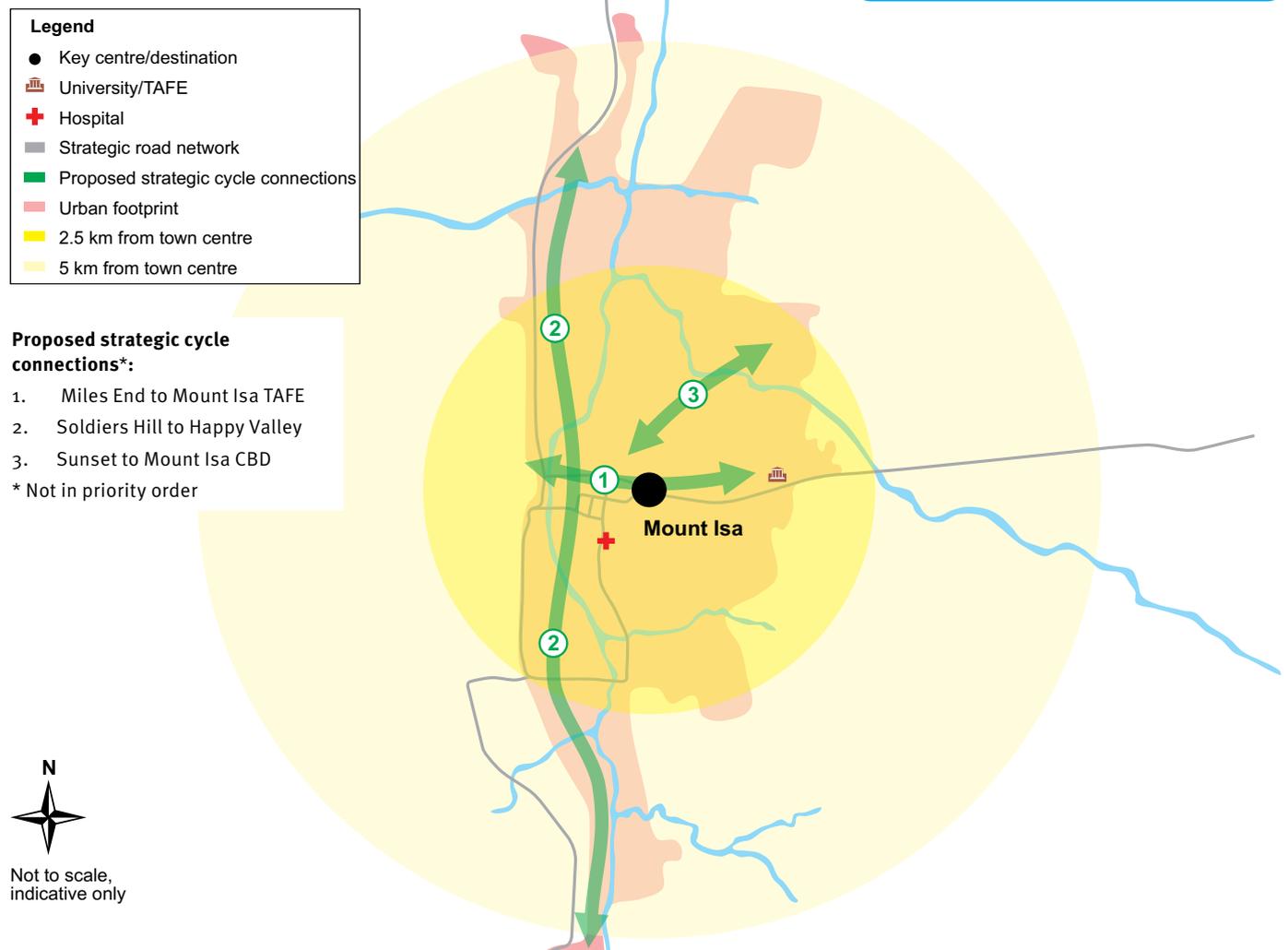
A *Principal Cycle Network Plan* will be completed for Mount Isa. In the meantime, priority will be given to works which complete connections to and between the major cycling destinations.

## Educated Ways

With almost 89% of primary school students and 63% of secondary school students living within three kilometres of the closest school, there is potential to have more students cycling to local schools.

21 000	2010 population	
+22%	2031 growth forecast	
2.8%	commute mode share	
▼	mode share trends	
99%	Per cent of population within 5km of key centre	
37	Average annual rain days	
Majority flat	Topography	
63%	Per cent of population overweight or obese	

Figure 11 – strategic cycle network priorities for Mount Isa



# Townsville

Townsville can anticipate considerable population growth over the next 20 years. While car trips form the principal mode of transport, there is good support for active transport in Townsville. While the years between 1996 and 2006 saw a decrease in active transport mode share in Townsville, this trend is reversible with the right measures.

With 59% of Townsville residents overweight or obese, supporting people to be more active as part of daily travel can make an important contribution to overall community health. Many areas in Townsville have the potential for shifting commute trips to walking and cycling, with one-in-three residents travelling five kilometres or less to work. There is also high accessibility around many inner suburbs. Townsville does not have strong centres in place and this may mean a denser cycle network is needed as trip demands are more dispersed.

## Key projects to complete the strategic cycle network

Townsville has some excellent cycle facilities in place. Building on the existing network and providing high-quality links between centres will support more cycling, more often.

## Cycle Network Planning

A *Principal Cycle Network Plan* will be completed for Townsville. In the meantime, connections to and between the major cycling attractors are identified in Figure 12.

## Educated Ways

With almost 92% of primary school students and 77% of secondary school students living within three kilometres of the closest school, there is potential to have more students cycling to school across Townsville.

## End-of-trip facilities

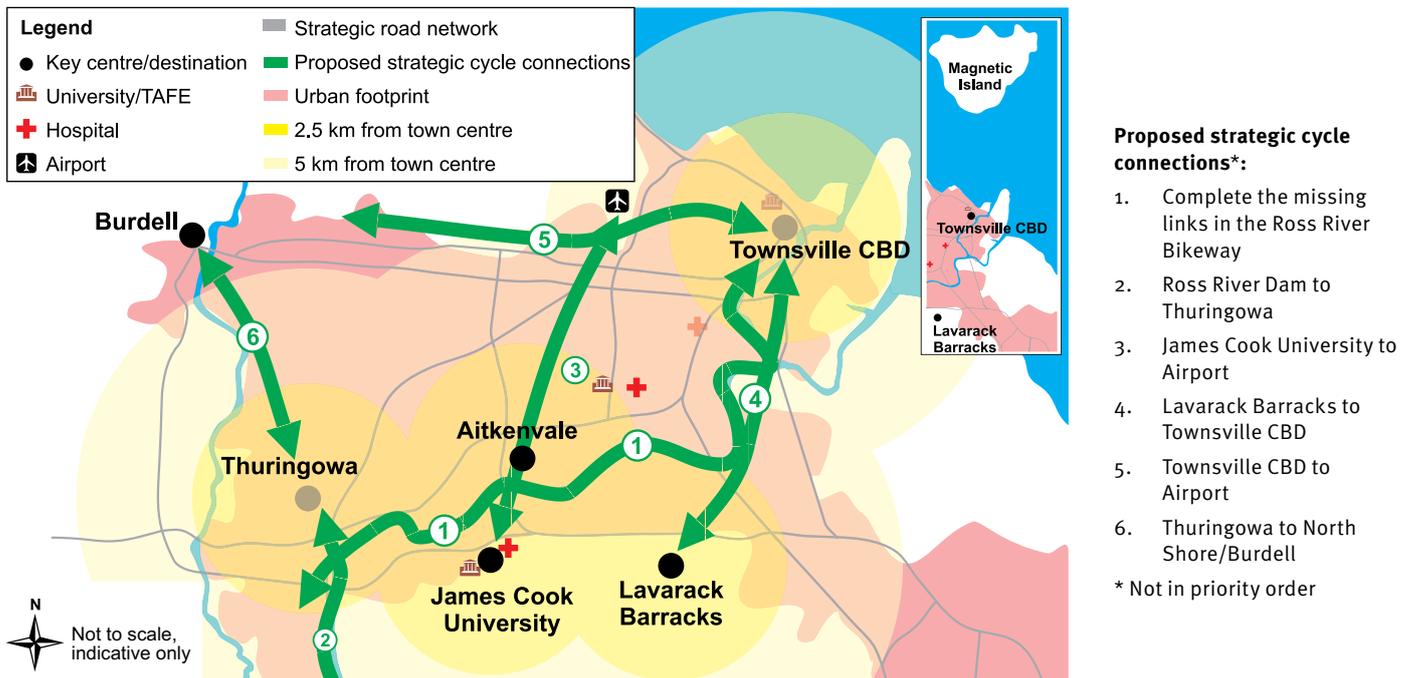
This will include the integration of bicycle end-of-trip facilities such as bicycle parking, showers and lockers in buildings. Providing end-of-trip facilities with secure bicycle parking and showers could be trialled in the CBD or other major destinations.

## Connect To

This would include prioritisation of end-of-trip facilities to support the integration of active transport with public transport.

150 000	2010 population	
+59%	2031 growth forecast	
3.1%	commute mode share	
▼	mode share trends	
33%	Per cent of commute trips less than 5 km	
93%	Per cent of population within 5km of key centres	
91	Average annual rain days	
Flat	Topography	
59%	Per cent of population overweight or obese	

Figure 12 – strategic cycle network priorities for Townsville



# Mackay

Mackay can anticipate considerable population growth over the next 20 years. This is underpinned by mining activity in central Queensland, with Mackay playing a central role as a major service centre and residential area.

The urban area of Mackay has increased considerably over the past decade. The CBD has remained a very strong centre, attracting about 30% of work trips. North Mackay and Mt Pleasant also attracts a high proportion of work trips.

Car trips form the predominant mode of transport, with some support for active transport. There are incentives to walk and cycle, as origins and destinations are close together.

With about 60% of Mackay residents overweight or obese, supporting people to be more active as part of daily travel can make an important contribution to overall community health.

## Cycle Network Planning

A *Principal Cycle Network Plan* will be completed for Mackay. In the meantime, priority will be given to works which complete connections to and between the major cycling destinations identified in Figure 13.

## Educated Ways

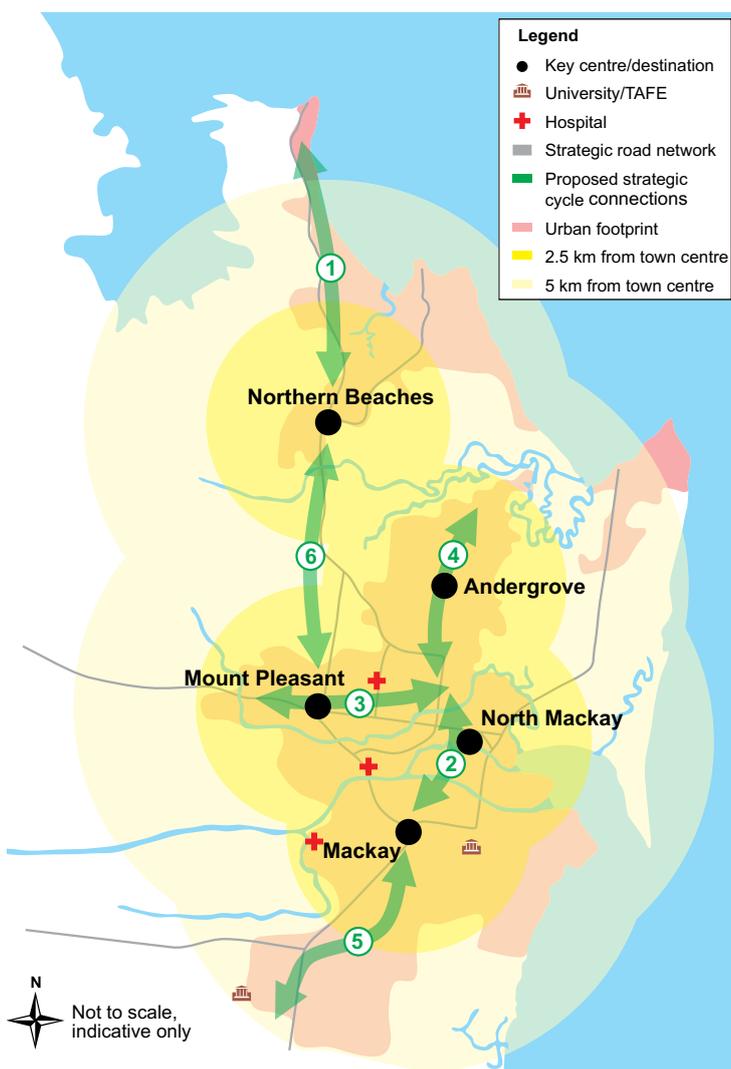
With 73% of primary school students and 64% of secondary school students living within three

kilometres of their nearest school, there is potential to boost the number of trips to school by cycling.

## End-of-trip facilities

This will include the integration of bicycle end-of-trip facilities such as bicycle parking, showers and lockers in buildings. Cycle centres or end-of-trip facilities with secure bicycle parking and showers could be trialled in the CBD.

Figure 13 – strategic cycle network priorities for Mackay



76 000	2010 population	🚴
+58%	2031 growth forecast	
1.8%	commute mode share	
▼	mode share trends	🌧️
38%	Per cent of commute trips less than 5 km	
94%	Per cent of population within 5km of key centres	☁️
11 600	Number of commute trips to the Mackay CBD	
130	Average annual rain days	🌪️
Flat	Topography	
60%	Per cent of population overweight or obese	

### Proposed strategic cycle connections\*:

- Bucasia to Rural View (Northern Beaches)
  - Mackay Central to North Mackay
  - North Mackay to Mt Pleasant
  - North Mackay to Andergrove
  - Mackay Central to Paget/Ooralea
  - Northern Beaches to Mt Pleasant
- \* Not in priority order

# Rockhampton

Rockhampton can anticipate considerable population growth over the next 20 years.

Car trips form the predominant mode of transport, with some support for active transport. There are incentives to walk and cycle, as origins and destinations are close together.

With about 61% of Rockhampton residents overweight or obese, supporting people to be more active as part of daily travel can make an important contribution to overall community health.

## Cycle Network Planning

A *Principal Cycle Network Plan* will be completed for Rockhampton. In the meantime, connections to and between the major cycling destinations have been identified in Figure 14.

## Educated Ways

With 94% of primary school students and 78% of secondary school students living within three kilometres of the closest school, there is potential to get more students cycling to school across Rockhampton.

## End-of-trip facilities

This will include the integration of bicycle end-of-trip facilities such as bicycle parking, showers and lockers in buildings. Cycle centres or end-of-trip facilities with secure bicycle parking and showers could be trialled in the CBD and universities.

67 000	2010 population	
+41%	2031 growth forecast	
1.5%	commute mode share	
▼	mode share trends	
97%	Per cent of population within 5km of key centres	
62	Average annual rain days	
Majority flat	Topography	
61%	Per cent of population overweight or obese	

Figure 14 – strategic cycle network priorities for Rockhampton

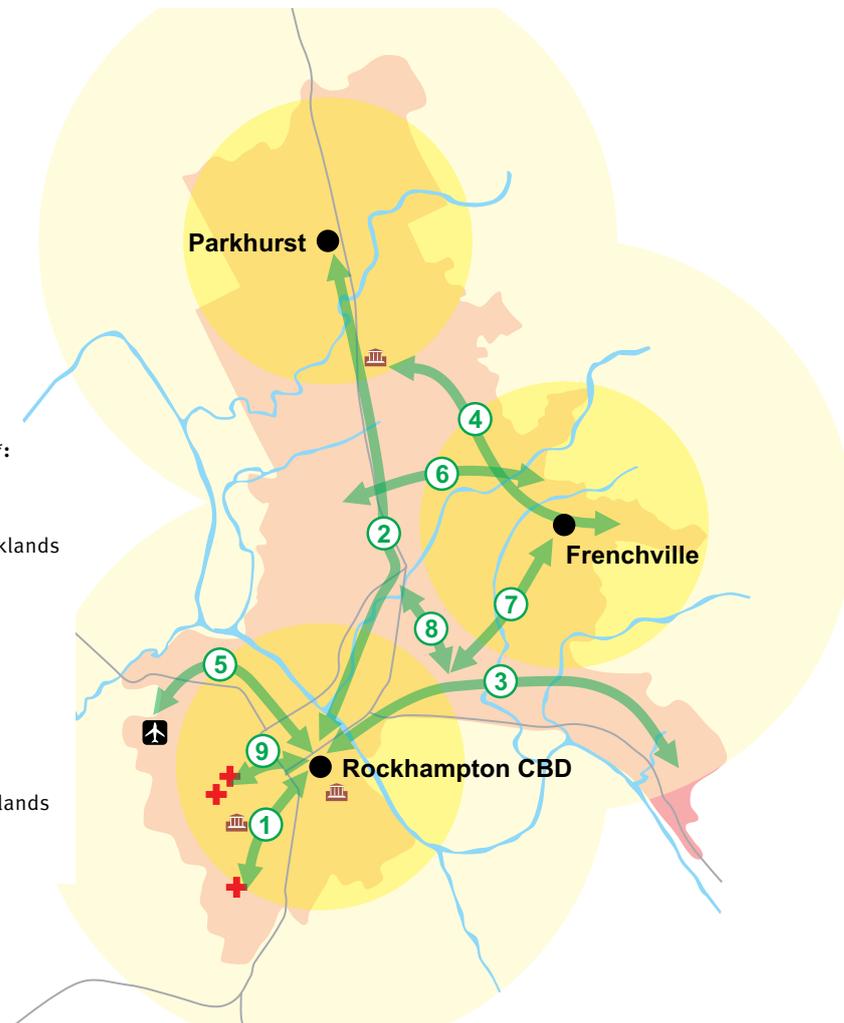
**Legend**

- Key centre/destination
-  University/TAFE
-  Hospital
-  Airport
-  Strategic road network
-  Proposed strategic cycle connections
-  Urban footprint
-  2.5 km from town centre
-  5 km from town centre

### Proposed strategic cycle connections\*:

1. Rockhampton to Allenstown
2. Rockhampton to University and Parkhurst via Shopping Fair/Stocklands
3. Rockhampton to Lakes Creek/ Nerimbera
4. Central Queensland University to Frenchville
5. Rockhampton to Airport
6. Norman Gardens to Kawana
7. Berserker to Frenchville
8. Berserker to Shopping Fair/Stocklands
9. Rockhampton to Hospital

\* Not in priority order



# Gladstone

A high rate of growth is forecast for Gladstone over the next 20 years.

Car trips form the predominant mode of transport, with some support for active transport. There are incentives to walk and cycle for many trips, as origins and destinations are close together. However, many people work in the industrial areas outside of Gladstone.

With about 61% of Gladstone residents overweight or obese, supporting people to be more active as part of daily travel can make an important contribution to overall community health.

## Cycle Network Planning

A *Principal Cycle Network Plan* will be completed for Gladstone. In the meantime, connections to and between the major cycling destinations are identified in Figure 15.

## Educated Ways

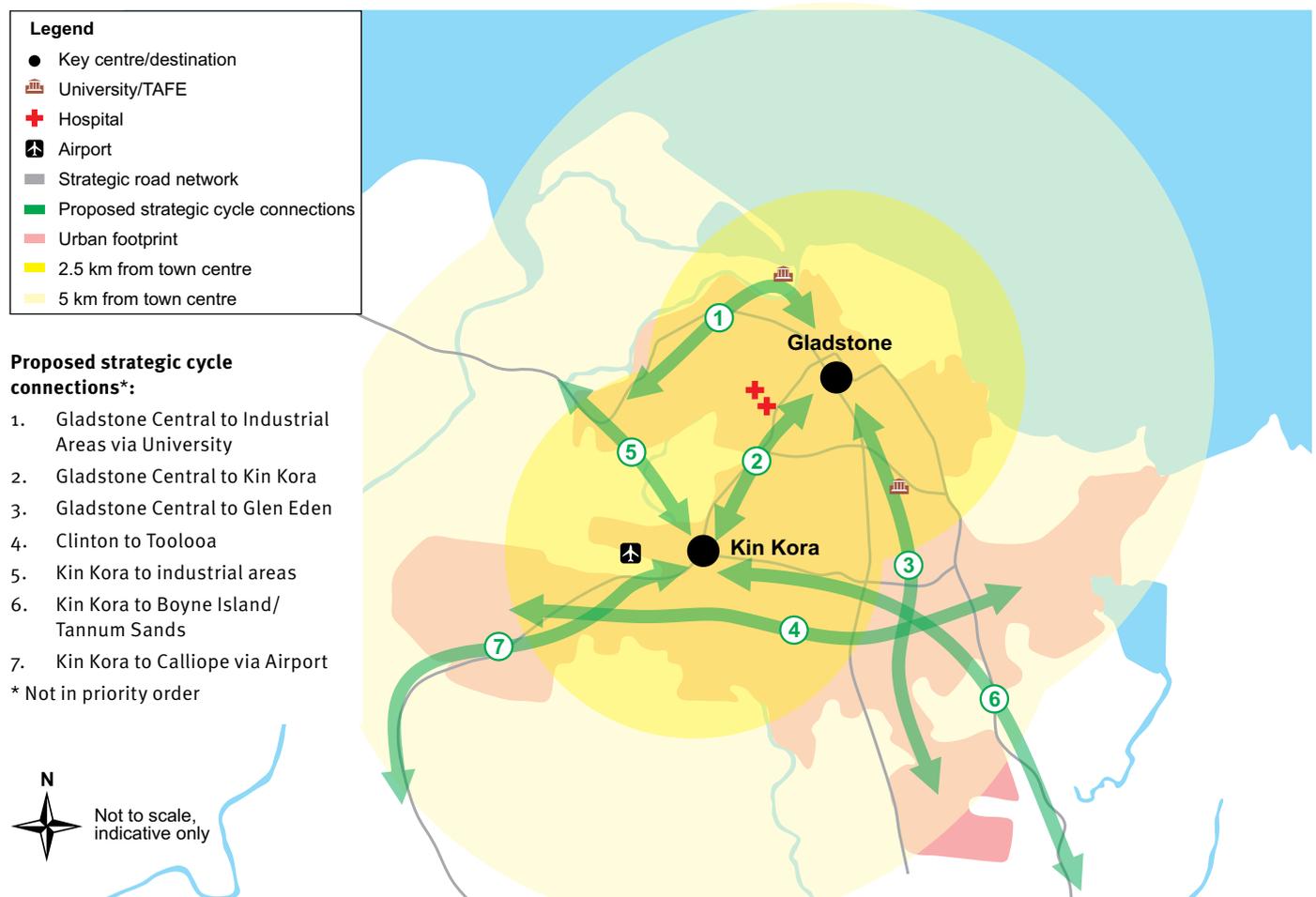
With 79% of primary school students and 65% of secondary school students living within three kilometres of the closest school, there is potential to have more students cycling to school across Gladstone.

## End-of-trip facilities

This will include the integration of bicycle end-of-trip facilities, such as bicycle parking, showers and lockers in buildings. End-of-trip facilities with secure bicycle parking and showers could be trialled in Kin Kora or in an outlying industrial area.

45 000	2010 population	
+85%	2031 growth forecast	
1.7%	commute mode share	
▼	mode share trends	
98%	Per cent of population within 5km of key centres	
54	Average annual rain days	
<b>Rolling</b>	Topography	
61%	Per cent of population overweight or obese	

Figure 15 – strategic cycle network priorities for Gladstone



# Bundaberg

Bundaberg’s population will continue to increase over the next 20 years.

Car trips form the predominant mode of transport, with some support for active transport. Active transport mode shares were higher within five kilometres of the CBD, due to the number of employment opportunities and the short distance.

The population of Bundaberg in 2010 was about 53 000. Nearly the entire city population (86%) lives within five kilometres of the CBD.

Almost 80% of the workforce lives in the town area.

With about 57% of Bundaberg residents overweight or obese, supporting people to be more active as part of daily travel can make an important contribution to overall community health.

## Cycle Network Planning

A *Principal Cycle Network Plan* will be completed for Bundaberg. In the meantime, the priority connections to and between the major cycling destinations are identified in Figure 16.

## Educated Ways

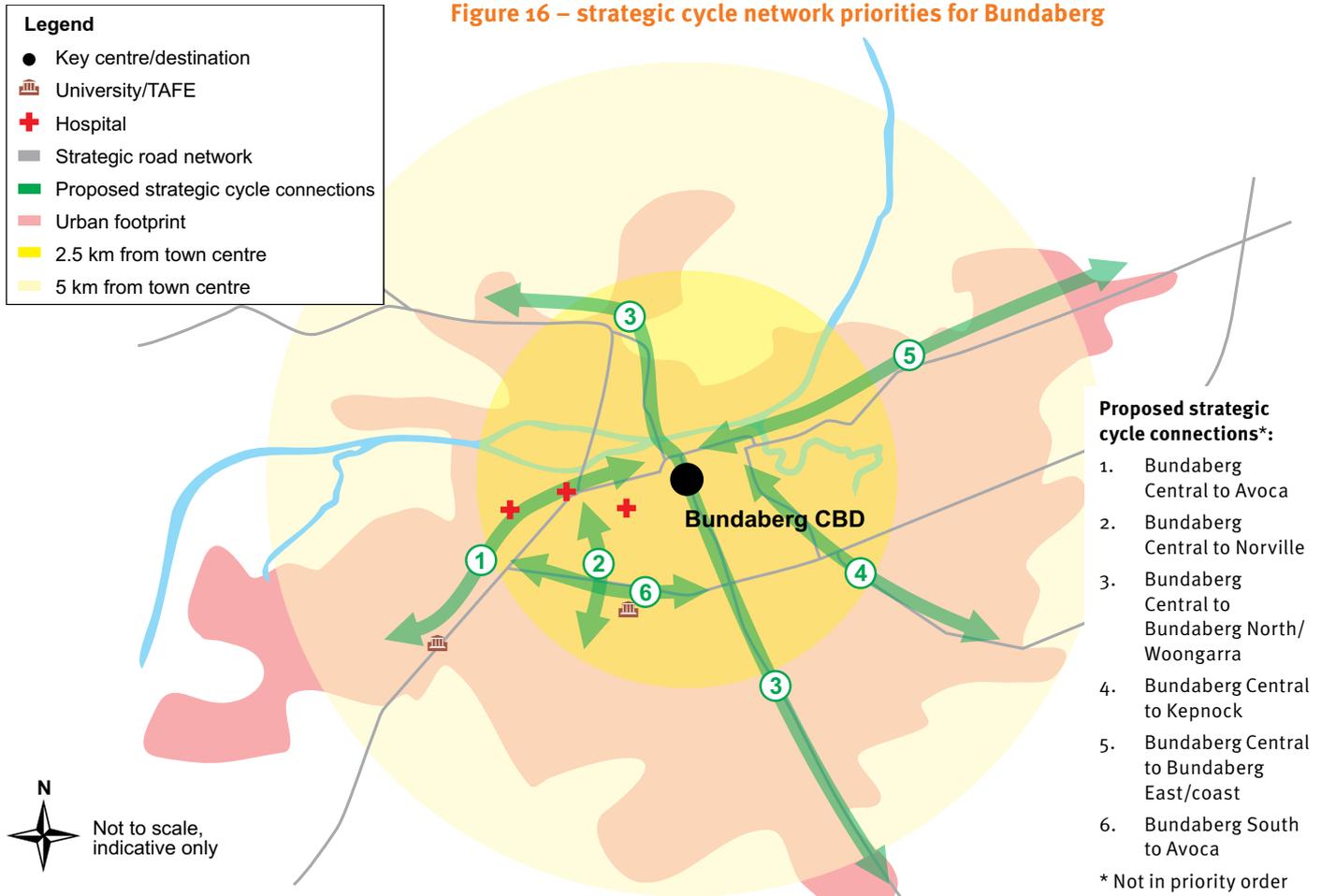
With almost 86% of primary school students and 52% of secondary school students living within three kilometres of the closest school, there is potential to have more students cycling to school across Bundaberg.

## End-of-trip facilities

This will include the integration of bicycle end-of-trip facilities, such as bicycle parking, showers and lockers in buildings. Cycle centres or end-of-trip facilities with secure bicycle parking and showers could be trialled in the CBD.

53 000	2010 population	
+44%	2031 growth forecast	
2.9%	commute mode share	
▼	mode share trends	
86%	Per cent of population within 5km of key centre	
104	Average annual rain days	
Flat	Topography	
57%	Per cent of population overweight or obese	

Figure 16 – strategic cycle network priorities for Bundaberg



# Hervey Bay

Hervey Bay’s population will continue to increase over the next 20 years. Private vehicles dominate as the transport mode of choice for journeys originating and arriving in Hervey Bay, where public transport use and cycling mode shares are low and walking mode share is moderate.

More people commute out of Hervey Bay for work than commute in. Commuters are typically travelling to and from Maryborough. Socioeconomic disadvantage across Hervey Bay is generally moderate to high, with some areas of low socioeconomic disadvantage found in the urban fringes of the north-west coastal area. Moderate to high levels of transport disadvantage are evident across most of Hervey Bay.

With about 57% of Hervey Bay residents overweight or obese, supporting people to be more active as part of daily travel can make an important contribution to overall community health.

## Cycle Network Planning

A *Principal Cycle Network Plan* will be completed for Hervey Bay. Some key cycle routes to link centres have been identified on Figure 17.

## Educated Ways

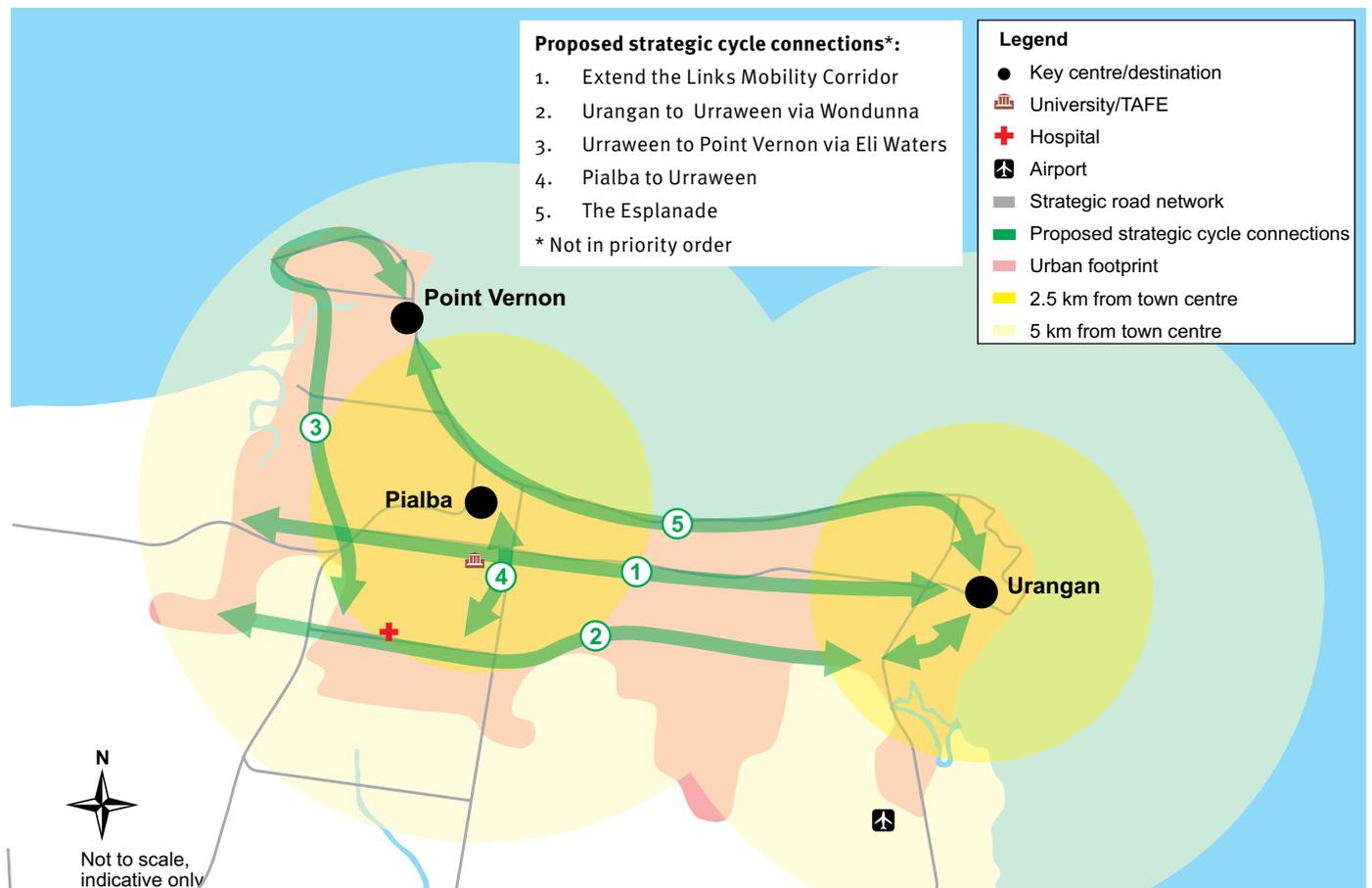
With almost 77% of primary school students and 55% of secondary school students living within three kilometres of the closest school, there is potential to have more students cycling to school across Hervey Bay.

## End-of-trip facilities

This will include the integration of bicycle end-of-trip facilities, such as bicycle parking, showers and lockers in buildings. End-of-trip facilities with secure bicycle parking and showers could be trialled in Pialba and Urangan.

50 000	2010 population	
+61%	2031 growth forecast	
1.4%	commute mode share	
▼	mode share trends	
91%	Per cent of population within 5km of key centres	
86	Average annual rain days	
Flat	Topography	
57%	Per cent of population overweight or obese	

Figure 17 – strategic cycle network priorities for Hervey Bay



# Maryborough

Maryborough can anticipate considerable population growth over the next 20 years.

Car trips form the predominant mode of transport, with some support for active transport. There are incentives to walk and cycle as origins and destinations are close together.

With about 57% of Maryborough residents overweight or obese, supporting people to be more active as part of daily travel can make an important contribution to overall community health.

## Cycle Network Planning

A *Principal Cycle Network Plan* will be completed for Maryborough. Some key cycle routes to link centres have been identified in Figure 18.

## Educated Ways

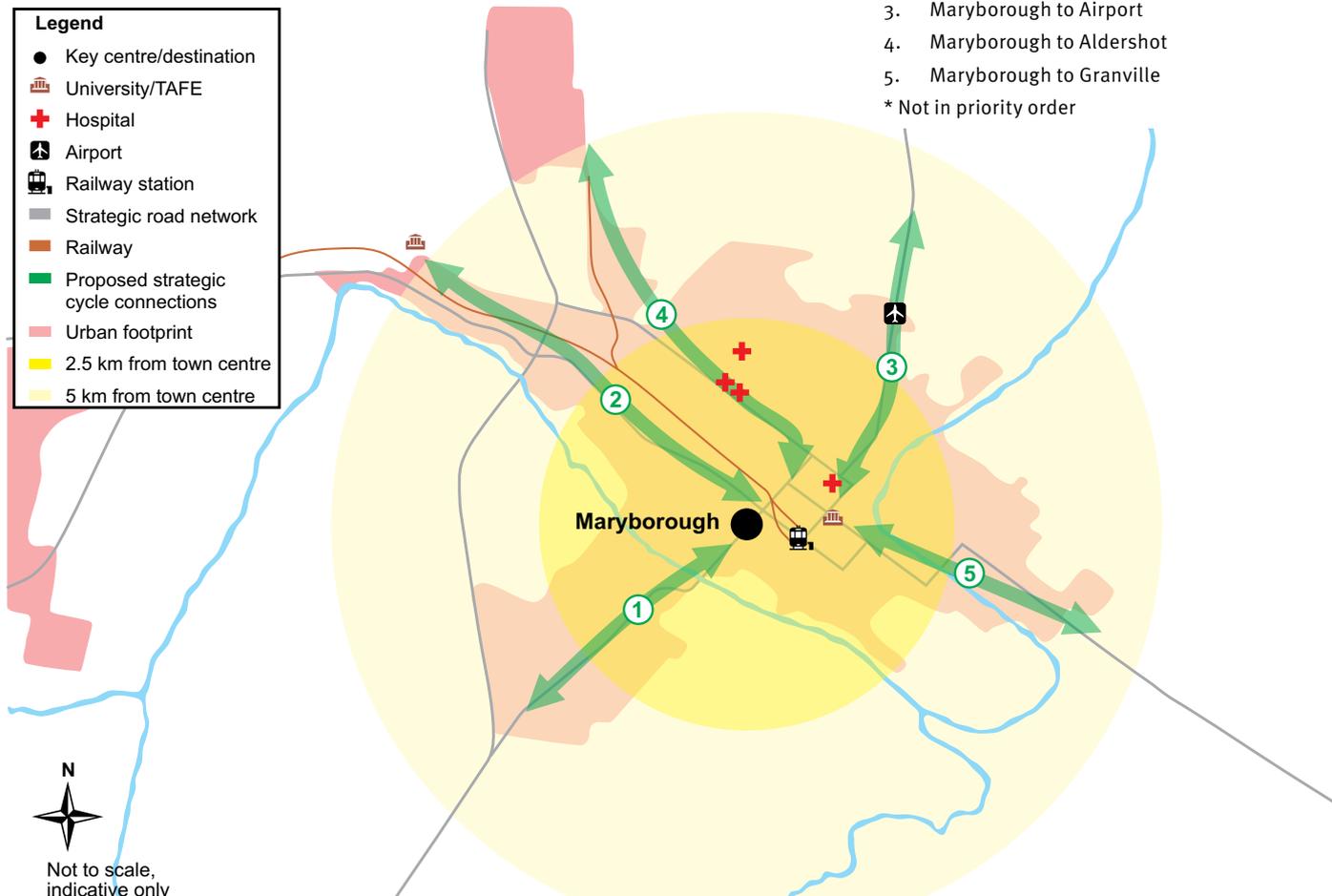
With almost 92% of primary school students and 73% of secondary school students living within three kilometres of the closest school, there is potential to have more students cycling to school in Maryborough.

## End-of-trip facilities

This will include the integration of bicycle end-of-trip facilities, such as bicycle parking, showers and lockers in buildings. Cycle centres or end-of-trip facilities with secure bicycle parking and showers could be trialled in the CBD.

23 000	2010 population	
+61%	2031 growth forecast	
1.4%	commute mode share	
▼	mode share trends	
99%	Per cent of population within 5km of key centre	
83	Average annual rain days	
Flat	Topography	
57%	Per cent of population overweight or obese	

Figure 18 – strategic cycle network priorities for Maryborough



### Proposed strategic cycle connections\*:

Proposed strategic cycle connections\*:

1. Maryborough to Tinana
  2. Maryborough to Maryborough West
  3. Maryborough to Airport
  4. Maryborough to Aldershot
  5. Maryborough to Granville
- \* Not in priority order

# Toowoomba

Toowoomba can anticipate considerable population growth over the next 20 years.

The urban footprint of Toowoomba has increased significantly over the past decade. The importance of the CBD as an employment and commerce hub has declined, with other key trip destinations distributed throughout the city.

There are incentives to walk and cycle, with many trips only covering a short distance. The topography of Toowoomba does present some challenges for cycling.

With about 62% of Toowoomba residents overweight or obese, supporting people to be more active as part of daily travel can make an important contribution to overall community health.

## Cycle Network Planning

A *Principal Cycle Network Plan* will be completed for the Toowoomba region. Some key cycle connections have been identified in Figure 19 and more extensively in the *South East Queensland Principal Cycle Network Plan*.

## Educated Ways

With 87% of primary school students and 85% of secondary school students living within three kilometres of the closest school, there is potential to have more students cycling to school across Toowoomba.

## End-of-trip facilities

This will include the integration of bicycle end-of-trip facilities, such as bicycle parking, showers and lockers in buildings. Cycle centres or end-of-trip facilities with secure bicycle parking and showers could be trialled in the CBD.

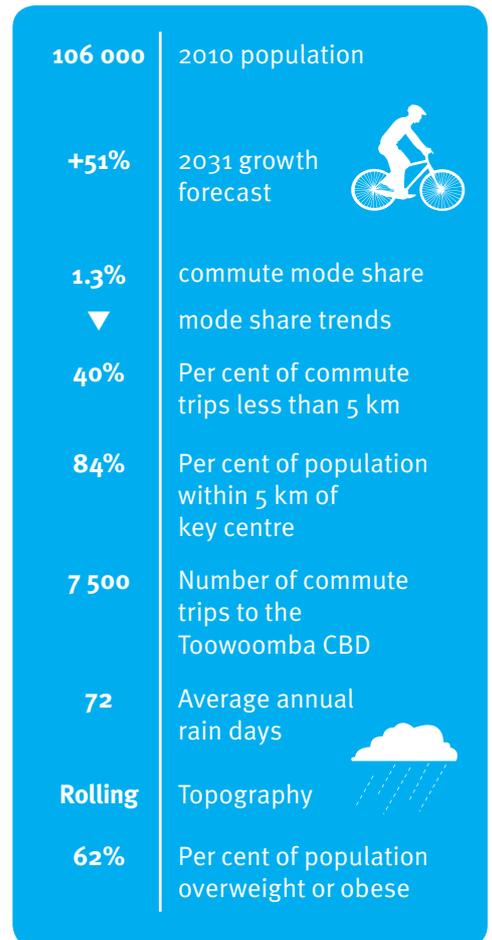
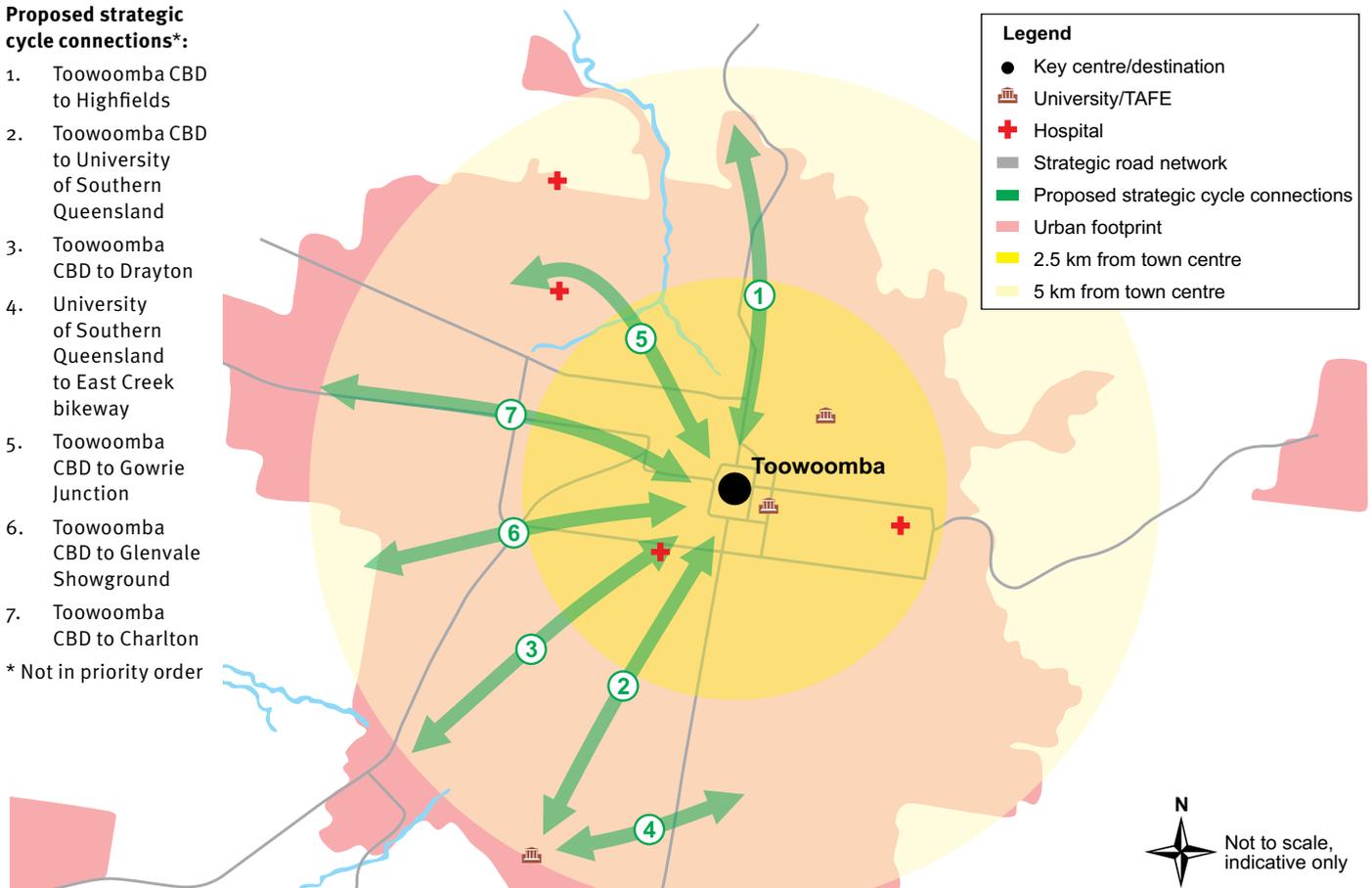


Figure 19 – strategic cycle network priorities for Toowoomba

### Proposed strategic cycle connections\*:

1. Toowoomba CBD to Highfields
2. Toowoomba CBD to University of Southern Queensland
3. Toowoomba CBD to Drayton
4. University of Southern Queensland to East Creek bikeway
5. Toowoomba CBD to Gowrie Junction
6. Toowoomba CBD to Glenvale Showground
7. Toowoomba CBD to Charlton

\* Not in priority order



# Sunshine Coast

The Sunshine Coast includes residential areas and centres located along the coast, as well as the major inland towns of Nambour and Beerwah.

One of the fastest growing areas in Australia, the Sunshine Coast population is forecast to increase by 54% between 2010 and 2031. Most of the growth will be accommodated in new development areas. This provides the opportunity to ensure new communities are designed to support cycling.

Maroochydore will be the principal focus for business, community services and employment on the Sunshine Coast.

Major activity centres such as Caloundra will also play an important role for retail, health and community services. Nambour will support employment locally and in its surrounds.

## Key projects to complete the strategic cycle network

Many improvements have been made to the cycling facilities on the Sunshine Coast. *Connecting SEQ 2031* identifies priority projects to continue delivery of strategic links in the cycle network to 2031 and these are shown in Figure 20. A *Principal Cycle Network Plan* exists for the Sunshine Coast.

## Educated Ways

The Sunshine Coast has been encouraging more students to get active for school travel through the rollout of the TravelSmart programs.

With 57% of primary school students and 41% of secondary school students living within three kilometres of their nearest school, there is potential to boost the number of trips to school by cycling.

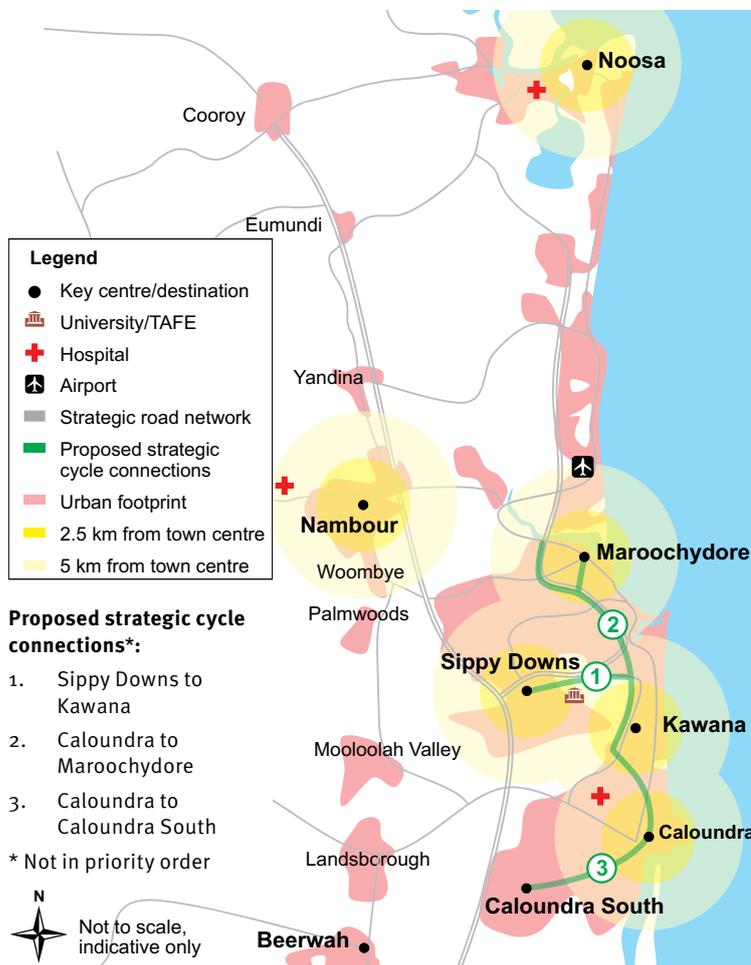
## End-of-trip facilities

This will include the integration of end-of-trip facilities such as bicycle parking, showers and lockers in buildings. Cycle centres with secure bicycle parking and showers could be trialled in key centres (for example, Maroochydore) to make cycling more attractive to potential cyclists with no access to workplace bicycle parking and showers.

## Connect To

This would prioritise the placement of end-of-trip facilities to support the integration of active transport with public transport, along with cycling connections to key stops or stations.

Figure 20 – strategic cycle network priorities for Sunshine Coast



237 000	2010 population	🚴
+54%	2031 growth forecast	
1.2%	commute mode share	
▼	mode share trends	🌧️
27.8%	Per cent of commute trips less than 5 km	
80%	Per cent of population within 5km of key centres	🌫️
6 000	Number of commute trips to the Maroochydore CBD	
65	Average annual rain days	
Rolling	Topography	👤
57%	Per cent of population overweight or obese	

# Greater Brisbane

Greater Brisbane is an urban metropolis of five local governments: Brisbane City Council, Moreton Bay Regional Council, Ipswich City Council, Logan City Council and Redland City Council.

There is variation in the rates of growth, urban form, cycling rates and overall travel patterns between the local governments in greater Brisbane and these are addressed further in *Connecting SEQ 2031*.

The population is forecast to grow by 42% between 2010 and 2031. Under the *South East Queensland Regional Plan*, about half of this growth will be accommodated within existing urban areas.

Increasing densities through promoting development within existing urban areas will mean more people living in closer proximity to jobs, shops, schools and recreation opportunities. This presents excellent opportunities for cycling in greater Brisbane.

A proportion of growth will be accommodated in high growth development areas, such as Springfield and the emerging Ripley Valley. This provides the opportunity to ensure new communities are designed to support active travel.

## Key projects to complete strategic cycle network

Many improvements have been made to cycling facilities in greater Brisbane. *Connecting SEQ 2031* identifies some priority projects to continue delivery of strategic links in the cycle network to 2031 and these are shown in Figure 21. A *Principal Cycle Network Plan* has also been developed for this area, showing all existing and future cycle connections.

## Educated Ways

With 82% of primary school students and 63% of secondary school students living within three kilometres of the closest school,

there is potential to have more students cycling to school.

## Connect To

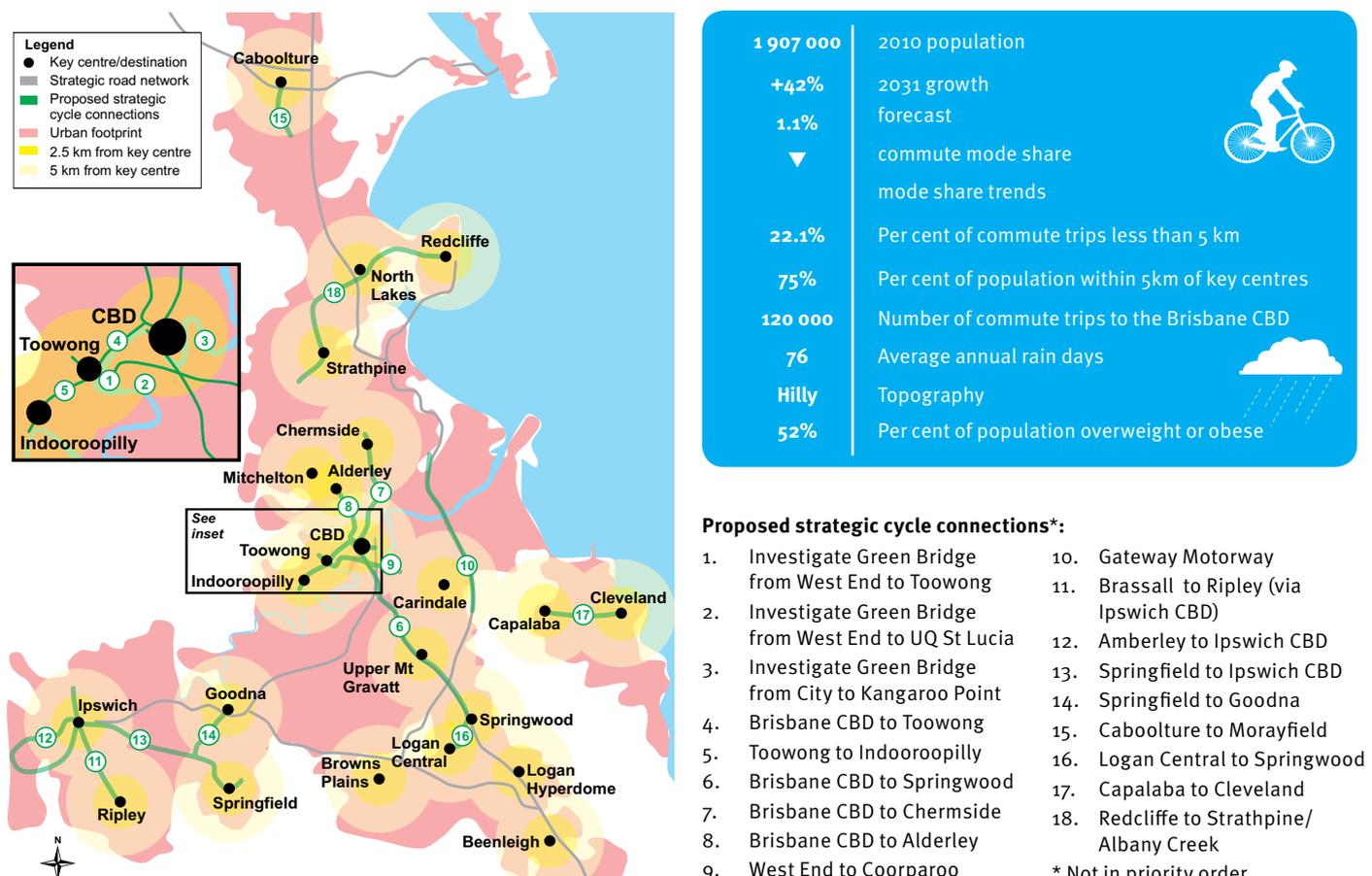
This would prioritise the placement of end-of-trip facilities to support the integration of active transport with public transport, along with cycling connections to key stops or stations.

Improved facilities like secure bike parking and lockers to encourage more cycling to rail stations in south-east Queensland are being planned. Trials of new bike enclosures are being undertaken at various rail stations. Major rail station upgrades will also include fully integrated cycle parking and shower facilities.

## End-of-trip facilities

In addition to existing larger cycle centres and public end-of-trip facilities in government buildings in inner Brisbane, opportunities for similar facilities in other key centres will be explored.

Figure 21 – strategic cycle network priorities for greater Brisbane



# Gold Coast

The Gold Coast is Queensland’s second largest city, with a range of coastal and hinterland lifestyles and increasingly diverse employment opportunities.

Growth is forecast to continue over the next two decades, with population increasing by 51% between 2010 and 2031. Under the *South East Queensland Regional Plan*, over 65% of this growth will be accommodated within existing urban areas.

Urban development is concentrated in growth centres between Yatala and Coolangatta. Continuous development extends south of Coolangatta beyond the Queensland border into the Tweed Shire. The urban form consists of medium to high density development along the

coastal spine and pockets of canal development, surrounded by larger areas of low density residential housing. Rural residential living areas are located further west.

Increasing densities through promoting development within existing urban areas will mean more people living in closer proximity to jobs, shops, schools and recreation opportunities. This presents an excellent opportunity for cycling.

### Key projects to complete strategic cycle network

Many improvements have already been made to the cycling facilities on the Gold Coast. *Connecting SEQ 2031* identifies priority projects to continue delivery of strategic links in the region’s cycle network and these are

shown in Figure 22. A *Principal Cycle Network Plan* has also been identified for the area.

### Educated Ways

With 74% of primary school students and 48% of secondary school students living within three kilometres of their nearest school, there is huge potential to boost the numbers of trips to school by cycling.

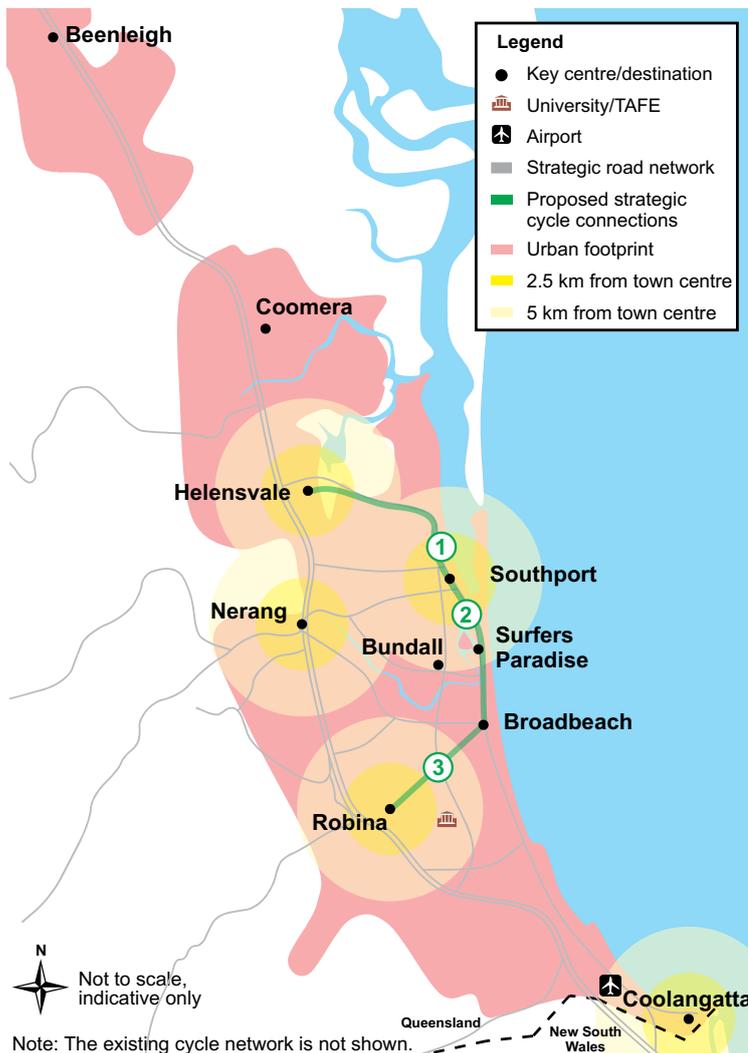
### End-of-trip facilities

This will include the integration of bicycle end-of-trip facilities such as bicycle parking, showers and lockers in buildings. Cycle centres or end-of-trip facilities with secure bicycle parking and showers could be trialled in key centres.

### Connect To

This would prioritise the placement of end-of-trip facilities to support the integration of active transport with public transport.

Figure 22 – strategic cycle network priorities for Gold Coast



### Proposed strategic cycle connections\*:

1. Helensvale to Southport
2. Southport to Broadbeach
3. Broadbeach to Robina

\* Not in priority order

482 000	2010 population	
+51% 1.3% ▼	2031 growth forecast commute mode share mode share trends	
91%	Per cent of commute trips less than 5 km	
91%	Per cent of population within 5 km of key centres	
7 500	Number of commute trips to the Southport CBD	
72	Average annual rain days	
Rolling	Topography	
62%	Per cent of population overweight or obese	

*more*  
**cycling,**  
*more often*  
*on safe, direct and connected routes*



## Ted Smout Bridge and Gateway Cycleways

The \$36 million Gateway cycleway and the \$22 million Ted Smout Memorial Bridge cycle and pedestrian facility, both opened in 2010, are critical links in the south-east Queensland cycle network. They form part of the 150 km Moreton Bay cycleway running across four local government areas from Redcliffe to Redland Bay, and are important local links for commuting trips.

The Queensland Government's *Cycling on State-controlled Roads Policy* introduced in 2004, required that road projects on priority cycle routes provided for cycling. As a result, cycling and pedestrian facilities were incorporated into the upgrade of these two bridges.

The Queensland Government recognised that including a bicycle and pedestrian crossing as part of these major projects was a significant and unique opportunity to improve connections east and north of Brisbane. Incorporating cycling and walking facilities into all transport projects is economical and provides greater resilience to the transport system.

The Gateway and Ted Smout Bridge cycleways are proving to be worthwhile investments supporting rapidly growing areas of Queensland. The Queensland Government's *Cycling Infrastructure Policy* will continue to ensure that all opportunities are taken to connect and improve cycling and walking, as part of transport projects, and will provide best value investment for the Queensland community.

Gateway cycleway



Ted Smout Bridge cycleway





# Priority area two Growing a cycling culture

Growing a cycling culture is about Queensland being a place where cycling is widely supported, encouraged and celebrated. It is about making cycling convenient, easy to do, enjoyable and a cultural norm embraced by the wider community.

Getting more people to cycle will take time. Community attitudes towards cycling will only change when people experience cycling as being safe and convenient.

Providing a network that offers safe and direct cycling routes is critical. Initiatives that promote cycling to existing, lapsed and potential cyclists are also needed.

Organised community events, one-on-one assistance by skilled riders and bicycle education give people the opportunity to try cycling in safe and supportive settings.

## 2.1 Supporting travel behaviour change to boost cycling

**The Queensland Government will support existing cyclists to cycle more often, and encourage more people to take up cycling.**

As well as improving infrastructure and facilities, getting more people cycling more often requires the support of travel behaviour change programs.

Travel behaviour change programs encourage the use of sustainable modes of transport like cycling and walking.

### TravelSmart

The Queensland Government is rolling out the world's largest TravelSmart communities program to encourage people to use public transport, cycle and walk for more trips. TravelSmart communities is a key pillar of the Government's climate change strategy, ClimateQ, for reducing Queensland's road transport greenhouse gas emissions.

Providing information and advice about the infrastructure available in people's local areas will support voluntary travel behaviour change programs.

Ensuring road rules support cycling and improve cycling safety is also important. The department regularly reviews road rules as part of its safety commitment and will provide this information to the community.

The action tables in the following section include an implementation priority. The intended timeframes are:

- Short: 2011 – 2013
- Medium: 2014 – 2017
- Long: 2018 – 2021
- Existing: current action.

TravelSmart programs use a range of measures that target the attitudes and behaviours of individuals. They support investments in public transport, walking and cycling to encourage a change in travel behaviour in homes, schools and workplaces.

TravelSmart programs involve the Queensland Government working with local governments, businesses and the community.

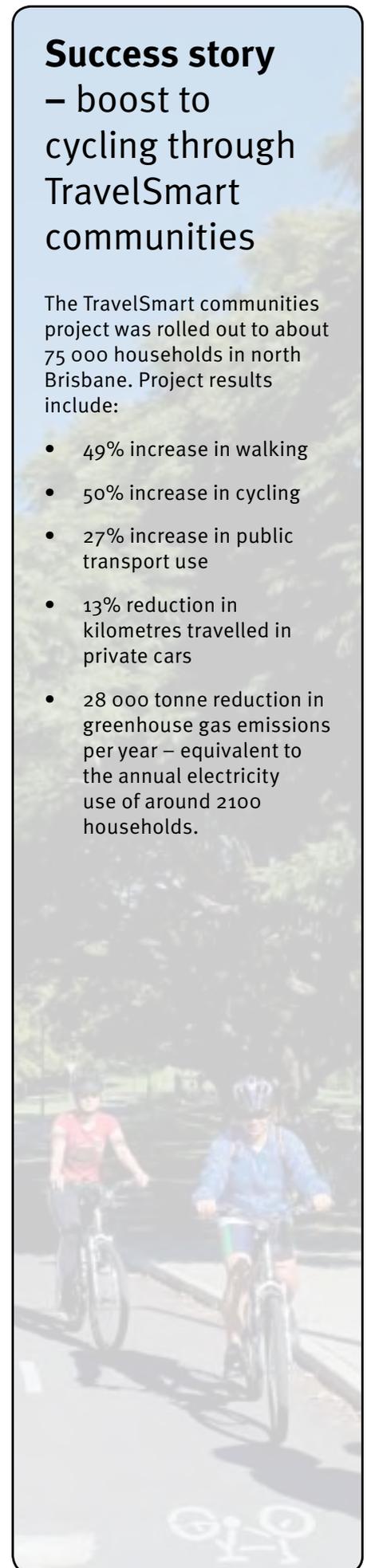
Programs underway include:

- TravelSmart communities – about 325 000 households throughout Brisbane, the Gold Coast and Sunshine Coast will be encouraged to increase their use of sustainable modes of transport. Households which elect to participate in the program are provided with a range of resources to assist them to change their travel behaviours.

## Success story – boost to cycling through TravelSmart communities

The TravelSmart communities project was rolled out to about 75 000 households in north Brisbane. Project results include:

- 49% increase in walking
- 50% increase in cycling
- 27% increase in public transport use
- 13% reduction in kilometres travelled in private cars
- 28 000 tonne reduction in greenhouse gas emissions per year – equivalent to the annual electricity use of around 2100 households.



- TravelSmart workplaces – workplaces within the Brisbane CBD will develop *Sustainable Travel Plans*. Workplaces are provided guidance and resources on how to implement new travel practices. Continued development of online resources and initiatives will make the program available to all workplaces in Queensland.
- TravelSmart schools – 38 schools in Queensland are identified to participate in the school’s project in 2011. By the end of 2012 it is anticipated that 135 schools will have been supported through the TravelSmart schools project. The program will ultimately enable every school in Queensland to implement a school travel plan, with the aim to increase the use of sustainable modes for travel to and from school.

## Success story – bike bus in far north Queensland

Bike bus is a pioneering program being delivered in a number of primary schools. Initiated at Trinity Beach State School, it is now part of an inter-agency trial at other schools, including Western Cape College in Weipa.

riding, an increase of 70 children since before the program.

Many children now ride every day regardless of the bike bus which currently runs two days per week, all year round.

The idea is simple – a supervised mass ride that picks up children along allocated safe routes situated up to seven kilometres from the school.

Trinity Beach State School created the Ride to School program to boost the number of students cycling to school. The bike bus has up to 90 children

Queensland Health, the Department of Transport and Main Roads, James Cook University, Cairns Regional Council and local schools are working together to evaluate the trial and draft an implementation guide for schools.

Table 2.1 details actions to support travel behaviour change.

**Table 2.1 – supporting travel behaviour change to boost cycling**

Action	Description	Priority	Agency*
2.1.1	Conduct and support research on the barriers and motivations to cycling to inform program development and delivery.	Short	TMR
2.1.2	Continue to implement TravelSmart initiatives.	Existing	TMR
2.1.3	Encourage the Australian Government to remove tax-related disincentives for cycling-related personal transport and establish incentives for work-related cycling purposes.	Long	TMR
2.1.4	Encourage employers to promote themselves as cycle-friendly workplaces, based on the quality of their end-of-trip facilities, production of TravelSmart workplace travel plans and corporate participation in cycling events (for example, Ride to Work day).	Short	TMR QH
2.1.5	Promote the opening of new cycling and walking facilities through events, maps, media and other effective measures to ensure they receive maximum use.	Existing	LG TMR SRS
2.1.6	Undertake programs to encourage more people to cycle, such as bike pools for employees, buy-a-bike support programs, bicycle maintenance and Cycle Recycle days.	Long	TMR
2.1.7	Encourage people to make more shopping trips by bicycle by preparing and disseminating information: <ol style="list-style-type: none"> <li>for bicycle users on how to carry loads including the equipment needed</li> <li>for businesses on the economic benefits of catering for shoppers using bicycles and encouraging cycling.</li> </ol>	Short	TMR
2.1.8	Promote the use of government agency bicycle fleets for individual business travel and for specific operational functions, such as traffic surveillance and incident management by: <ol style="list-style-type: none"> <li>preparing guidelines on fleet management, rider training, insurance requirements and Occupational Health and Safety requirements</li> <li>coordinating the joint procurement of suitable bicycles.</li> </ol>	Long	State govern- ment agencies LG

\*Refer to the glossary on page 82

## 2.2 Encouraging active school travel

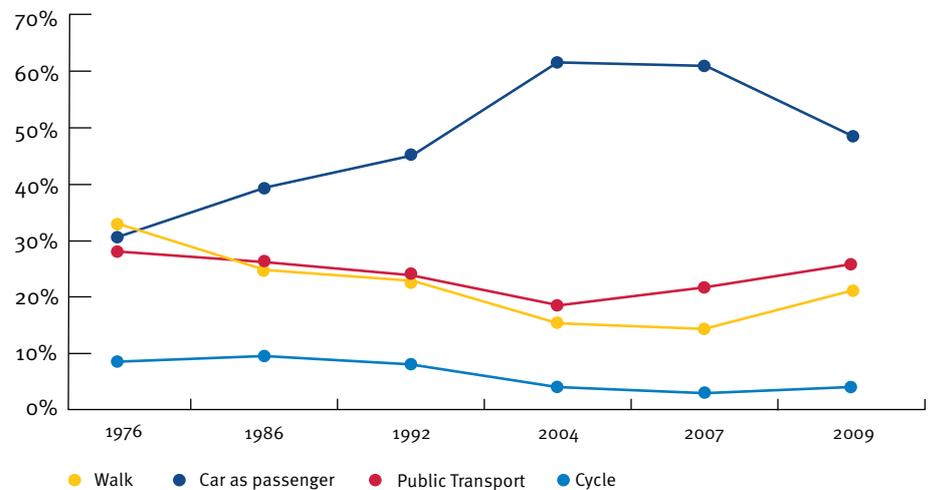
The Queensland Government will support school communities in encouraging safe bike riding and walking by primary and secondary school students.

Forty years ago, almost one-half of children walked or cycled to school, with about one-third being driven or using other means of transport. Today, more than 70% of primary school children are driven to and from school every day (Figure 23).

This trend has negative repercussions on children's health. About 26% of Queensland children aged between five and 15 years were found to be overweight or obese in 2004<sup>3</sup>.

Encouraging children to be active while travelling to and from school for even just a few trips a week has many benefits.

Figure 23 – historical journey to school mode share in greater Brisbane



Active school travel and the TravelSmart schools projects promote healthy alternatives to car travel. They aim to increase school children's physical activity and improve their health (and parents too).

Programs also aim to reduce congestion and pollution around schools, making it safer for children to walk or cycle.

Table 2.2 provides actions to encourage active school travel.

Table 2.2 – encouraging active school travel

Action	Description	Priority	Agency*
2.2.1	Continue to implement active school travel programs and the TravelSmart schools projects across Queensland.	Existing	TMR LG DET
2.2.2	Develop a <i>Bicycle Riding Skills Manual</i> for senior primary and high school teachers.	Short	TMR DET
2.2.3	Provide Queensland Police and local governments with cycling policy and safety advice for distribution to community groups and schools, including an adopt-a-cop program for schools.	Medium	TMR QPS
2.2.4	Provide practical guidance to schools on increasing access by active transport.	Existing	TMR
2.2.5	Support more active school travel by providing school communities with curriculum resources and working with parent and carer peak bodies to encourage more active travel.	Existing	TMR DET
2.2.6	Review existing bike bus and similar programs to encourage riding to school; identify and develop resources and mechanisms to support further rollout of successful models.	Medium	TMR
2.2.7	Include multi-modal traffic counts around schools in all evaluations of active and TravelSmart schools projects to understand the longer-term impact of the projects on area-wide traffic operations.	Existing	TMR
2.2.8	Support joint partnership projects that explore best practice infrastructure and programs aiming to increase cycling to school, including traffic conditions, drop-off zones and policies relating to school location, size and catchment.	Existing	TMR DET QH

\*Refer to the glossary on page 82

<sup>3</sup> Queensland Health (2010), *The Health of Queenslanders 2010: Third Report of the Chief Health Officer Queensland*.

## 2.3 Providing information and wayfinding

### The Queensland Government will promote best practice bicycle signage and maps.

‘Wayfinding’ refers to a cyclist’s ability to navigate through an area. It can include using signs, landmarks, maps and electronic devices to help orient the cyclist. Wayfinding signage is particularly important when people want to cycle through an unfamiliar area.

Good wayfinding schemes can also help remove clutter and visual obstructions on pathways.

Table 2.3 details actions for providing information and wayfinding.

### Signage

Signage is a critical component used to legitimise and assist the many and varied trips cyclists make daily.

Cycle network signage can:

- show the legal status of a facility (like shared path signs)
- regulate safe use (stop, give way and parking signs)
- warn of potential hazards (steep descents, slippery when wet, road ahead signs)
- provide destination guidance for cyclists (cycle route directional and distance signs).

### Maps

Unlike signage that is limited to showing directional details, maps display information such as gradient (for example, steep hills), shortcuts, detours, local services, facilities, landmarks and tourist attractions.

Maps showing existing cycle facilities are available at [www.tmr.qld.gov.au/cycling](http://www.tmr.qld.gov.au/cycling). Some local government websites also provide detailed cycling maps.

**Table 2.3 – information and wayfinding**

Action	Description	Priority	Agency*
2.3.1	Build and maintain a comprehensive online source of Queensland Government bicycle information including: <ol style="list-style-type: none"> <li>a bike route finding facility through websites, web-enabled mobile phones and GPS devices</li> <li>a cyclist feedback facility to share route ideas, and identify local opportunities for shortcuts</li> <li>user-friendly instructions for creating and printing personalised cycle network maps</li> <li>quality trails and route information for recreational and sport cycling</li> <li>calculators that show how cycle trips contribute to daily physical activity, fuel cost savings and greenhouse gas emissions reduction.</li> </ol>	Medium	TMR
2.3.2	Develop and distribute bicycle maps and route information for both on and off-road cycle routes in hard copy, electronic copy and interactive online formats.	Existing	LG TMR DERM
2.3.3	Inform cyclists and public transport passengers about bicycle parking locations and policies about carriage of bicycles on public transport.	Existing	TTA Queens-land Rail Bus operators
2.3.4	Prepare focal point maps for wayfinding signage on cycle networks (or use/adapt road-based focal point maps as appropriate). Ensure the maps allow for seamless signage across all levels of government.	Short	TMR LG TTA
2.3.5	Apply the Transport and Main Roads signage guidelines in signage plans and strategies for new and existing cycling facilities, and incorporate relevant guide signs into the <i>Manual of Uniform Traffic Control Devices</i> .	Existing	TMR LG
2.3.6	Install route signage on all new and existing bikeways that highlight the distance and typical duration of bike travel to key destinations, including public transport. Signage should also be provided to assist in wayfinding to next section of bikeway where bikeways are discontinuous.	Existing	TMR LG
2.3.7	Install trail wayfinding signage on formalised mountain bike trails where considered necessary and appropriate.	Existing	DERM DLGP SEQ Water LG

\*Refer to the glossary on page 82

### Information access

Behaviour can be informed and influenced by access to good quality information<sup>4</sup>. Mobile phones and hand-held devices provide increased access to information. When combined with GPS technology, these devices can assist in navigating to a destination.

Innovative applications (commonly referred to as ‘apps’) are emerging that can support cycling participation.

One such application allows riders to log and upload their commuting and recreational journeys. Other riders can access these online maps to find out details about popular cycling routes in their local area.



## 2.4 Promoting cycling and community education

**The Queensland Government will promote cycling and increase driver awareness of non-motorised road users.**

Cyclists share local roads with cars. Completing networks of separated bicycle paths and on-road cycle lanes will not change the need to start and finish bike trips on local streets.

In some locations, experienced cyclists will choose to share the road with heavier traffic, including trucks and buses.

Cyclists should expect to experience courteous and safe treatment by motorists. Likewise, cyclists must obey the road rules, be aware of other road users, and respect pedestrian safety and comfort on shared paths.

Messages such as ‘share the road’ and ‘pass cyclists at a safe distance’ aim to widely promote cyclist safety.

In addition to promoting safety, communication activities can highlight the broad appeal of cycling.

Communication can encourage cycling by highlighting cycling’s significant health, economic and environmental benefits.

Promoting ‘benefits of riding’ messages through multiple communication channels will help to entrench a healthy cycling culture and respect for cyclists throughout Queensland.

Table 2.4 details actions to promote cycling and community education.

### Success story – Share the Road

The 2000 ‘Share the Road’ advertising campaign was successful in making motorists more aware of cyclists. Market research showed that 85% of respondents indicated that the television commercial made them feel they should leave more room for cyclists on the road when driving. Four-in-five people agreed that the ‘Share the Road’ advertisement made them feel they should check for cyclists when driving. Similarly, four-in-five people said the advertisement made them feel that they should give way to cyclists when driving.

Following the ‘Share the Road’ campaign, the Queensland Government has continued to reinforce the key campaign messages by promoting and incorporating these into cycling initiatives.

To ensure the positive results from the campaign continue, the department will continue to promote cycling messages to:

- encourage cyclists and motorists to share roads responsibly and improve relations between cyclists and other road users
- encourage drivers to recognise cyclists as legitimate road users
- educate motorists and cyclists about the road rules and their legal responsibilities when sharing the road with one another and engage in safe road behaviours.

<sup>4</sup> Gatersleben, B. and Vlek, C. (1998), “Household Consumption, Quality of Life and Environmental Impacts”, in Noorman, K.J. and Schoot-Uiterkamp, T. (eds.), *Green Households, Domestic Consumers, the Environment and Sustainability*.

Table 2.4 – community education and promotion

Action	Description	Priority	Agency*
2.4.1	Continue to implement, evaluate and update regular ‘Share the Road’ activities to encourage mutual respect among road users, including: <ol style="list-style-type: none"> <li>communication activities to promote cycling and educate drivers and cyclists on how to interact safely on Queensland roads</li> <li>reinforcing cycling-related road rules, including initiatives directed at both cyclists and drivers through communication activities</li> <li>promoting safe behaviour by cyclists and pedestrians on shared paths with signage, information and pavement markings that reinforce give way requirements</li> <li>liaising with transport industry associations, unions and operators to understand the road-sharing needs of cyclists, trucks, buses and taxis and develop strategies to reduce conflicts.</li> </ol>	Existing	TMR
2.4.2	Regularly promote key information from the <i>Road User Code of Behaviour</i> for pedestrians, cyclists and motorists in media and events.	Existing	TMR
2.4.3	Prepare promotional and educational resources for use by state and local government and bicycle user groups in regional areas to: <ol style="list-style-type: none"> <li>promote cycling (should be designed to match a range of target audiences and types of cycling)</li> <li>educate road users about new cycling treatments and their use (for example, green bike lanes, hook turn storage boxes, shared left turn lanes)</li> <li>encourage drivers to ‘pass cyclists at a safe distance’</li> <li>promote the benefits of cycling for individuals and the community.</li> </ol>	Existing	TMR
2.4.4	Maintain a comprehensive cycling section on the department’s website covering all aspects of cycling policy, planning, promotion, projects and information for bicycle users.	Existing	TMR

\*Refer to the glossary on page 82

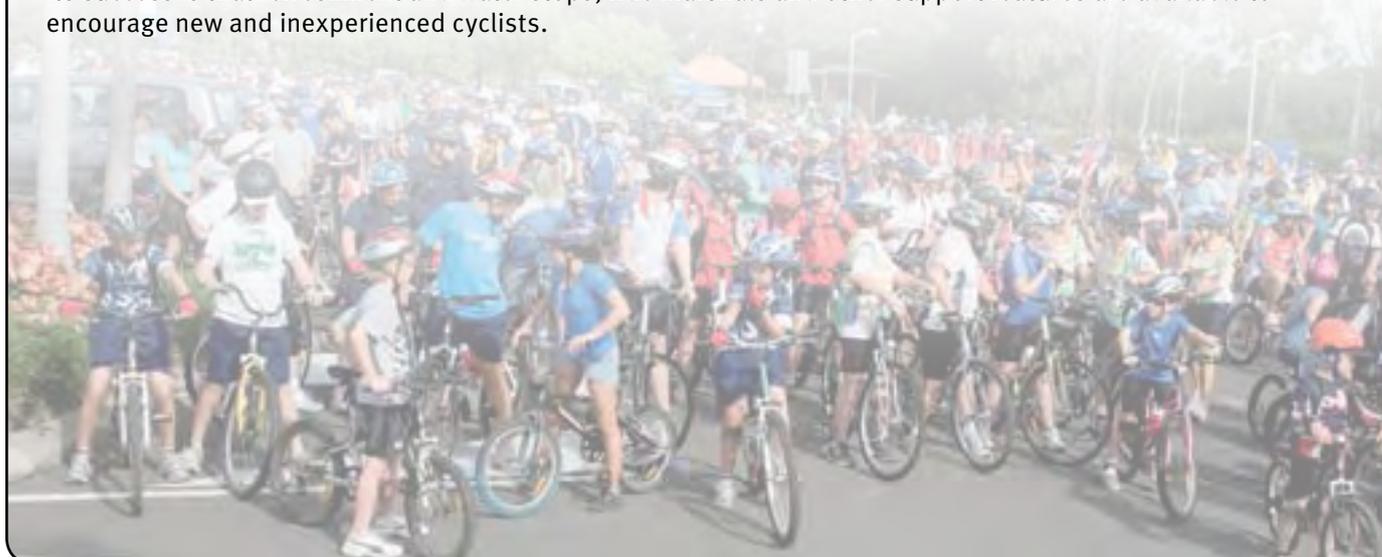


## Success story – City to Coast ride

In 2005, a small group of people in Bundaberg (calling themselves the ‘Mad Cycologists’) decided to share their love of cycling by organising a 20 kilometre community ride from Bundaberg to Burnett Heads.

The first ride attracted 140 riders with numbers increasing each year, peaking at 800 riders in 2009. It is the single largest community bike ride outside Brisbane. About one-fifth of participants came from outside the Bundaberg area, indicating keen interest for this kind of event.

The ride aims to provide a safe and enjoyable experience for people who are new to cycling. A big part of its success is that refreshment and water stops, ride marshals and other support features are available to encourage new and inexperienced cyclists.



## 2.5 Supporting cycling events

**The Queensland Government will take a strategic approach to supporting events that build a cycling culture and deliver the state's cycling vision.**

Cycling events are a fun way to get people back onto bicycles and encourage a new era of riders. Mass cycling events, including Cycle Queensland, Bike Week, Ride to Work, Ride to School, the Brisbane to Gold Coast Cycle Challenge and multiple other charity rides, recreational rides and racing events across Queensland have successfully increased cycling participation throughout the state.

### Ride to Work events

Ride to Work events provide the practical benefit of enabling people to learn from more experienced riders in a cycle-friendly environment.

Cycle to Work events help people give cycling a go and, once underway, to cycle more often.

Approximately one-in-three people who attended the 2009 Queensland Ride to Work Day described themselves as new riders. And 70% of people who attended the previous years' ride stated it had encouraged them to ride more often<sup>5</sup>.

The participant profile shows Ride to Work Day has been successful in encouraging new female cyclists.

With just 25% of cyclists being females in Queensland, the proportion of first time female riders participating in Ride to Work Day totalled 42% (Figure 24).

### Ride to School Events

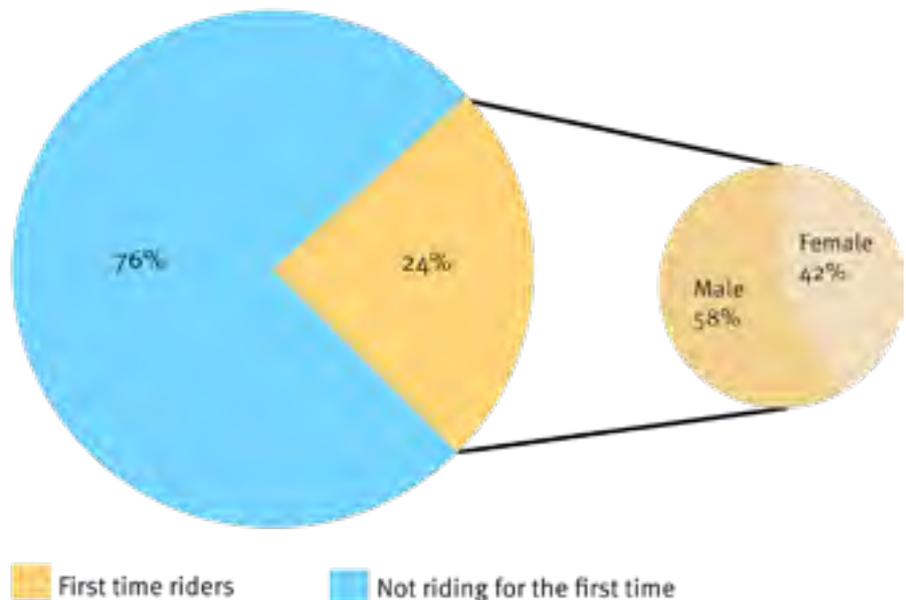
The annual National Ride2School event is a great way to kick start regular active travel habits at schools. Over 1200 schools across Australia participated in 2010, with over 71 000 students walking or cycling to school.

In 2010, a total of 55 schools from Queensland participated in the Ride2School day.

These included schools in Cooktown, Yeppoon, Toowoomba, Goondiwindi, Bundaberg, Brisbane and the Sunshine Coast.

Table 2.5 details actions to support events in Queensland.

**Figure 24 – ride to work day participation profile, 2007**



**Table 2.5 – events support**

Action	Description	Priority	Agency*
2.5.1	Continue cycling event support in Queensland, including: <ol style="list-style-type: none"> <li>Ride to Work and Ride to School events</li> <li>annual Bike Week events</li> <li>racing events in both rural and urban areas</li> <li>organised bicycle tours and rides.</li> </ol>	Existing	TMR SRS EQ BQ
2.5.2	Prepare an active travel event management manual which defines responsibility and approval process for on-road events and races.	Short	TMR

\*Refer to the glossary on page 82

<sup>5</sup> Department of Transport and Main Roads (2009), *Bike Week 2009 – Ride to Work Day Survey Results Report*, unpublished.

## 2.6 Engaging cycling change champions

**The Queensland Government will lead by example through increasing the use of cycling in daily operations, as well as supporting business and health professions to encourage more people to cycle.**

Community leaders such as politicians, health care professionals, police and workplace leaders can demonstrate through their own cycling behaviour and words of encouragement that riding is a fun, healthy and sustainable part of the Queensland way of life.

### Prescribing active travel

Regular cycling significantly improves a person's health<sup>6</sup> and is a cost-effective response to health problems, particularly problems associated with being overweight or obese<sup>7</sup>.

Healthcare professionals are in an important position to spread a 'cycling for health' message.

A 30 minute ride each day provides all the physical activity needed to halve the risk of becoming obese or diabetic<sup>8</sup>.

The information provided by trusted professionals can encourage people to take up cycling.

### Workplace champions

Executives and management teams can remove barriers to cycling by setting an example and changing work settings to support cycling.

In return, the organisation benefits from a fitter, more productive workforce, along with a healthy corporate image.

A healthy workplace is well positioned to recruit smart and active professionals who are looking for progressive places to work.

Table 2.6 provides actions on engaging cycle change champions.

### Police bike squad

Police officers first adopted the bicycle in the early twentieth century.

Bicycle patrols are regaining popularity, as movement of car-based officers becomes restricted by traffic and congestion.

Police bike squads offer many benefits for the officers involved and the general public.

Cycling offers a quick way for police to respond to incidents, particularly those in locations where congestion or access issues would hinder a police car response. Police bike squads are also widely used for patrolling parklands and cycleways.

Police on bicycles are highly visible and accessible to the general public. On-the-job exercise combined with duties means police officers gain significant health benefits

<sup>6</sup> Anderson, L., Schnohr, P., Schroll, M. and Hein, H. (2000), "All-cause mortality associated with physical activity during leisure time, work, sports, and cycling to work", *Archives of Internal Medicine*, 160(11), 1621-1628.

<sup>7</sup> Department of Transport and Regional Services (2005), *The Australian National Cycling Strategy 2005-2010*, Australian Bicycle Council, Canberra.

<sup>8</sup> World Health Organisation (2000), *Transport, Environment and Health*, Regional Office for Europe, Copenhagen.

Table 2.6 – cycling change champions

Action	Description	Priority	Agency*
2.6.1	Promote cycling to work by: <ul style="list-style-type: none"> <li>a. encouraging workplaces to identify, sign-up and train cycling change champions</li> <li>b. promoting cycling at workplace information sessions</li> <li>c. incorporating cycling to work information into new employees induction so they are actively encouraged to cycle to work</li> <li>d. becoming a TravelSmart workplace.</li> </ul>	Existing	TMR
2.6.2	Support community groups and Bicycle User Groups to pass on cycling proficiency skills to novice and adult riders.	Long	TMR
2.6.3	Incorporate cycling messages into existing communication activities that promote physical activity.	Medium	QH
2.6.4	Conduct ongoing cycling research and professional education programs with Queensland tertiary institutions.	Existing	TMR
2.6.5	Promote the <i>Designing for Cyclists and Pedestrians</i> training and related professional development initiatives by: <ul style="list-style-type: none"> <li>a. requiring the proponents of cycling projects submitted for Queensland Government funding to participate in training</li> <li>b. offering scholarships for staff from small local governments and Bicycle User Groups with a restricted capacity to fund training</li> <li>c. regularly updating training material and guidelines to incorporate the strategy priorities and wider developments in providing for active transport.</li> </ul>	Existing	TMR
2.6.6	Encourage business leaders and executives to support cycling by: <ul style="list-style-type: none"> <li>a. cycling to work themselves</li> <li>b. installing bicycle parking, showers and lockers for staff</li> <li>c. paying a cycling allowance for work journeys.</li> </ul>	Medium	TMR
2.6.7	Create a network of cycling change champions to: <ul style="list-style-type: none"> <li>a. work on bicycle-related issues and increase cycling to work</li> <li>b. promote cycling and cyclist safety through school-based police officers, adopt-a-cop, crime prevention, major events and crime prevention programs</li> <li>c. educate road users about road rules related to cycling.</li> </ul>	Medium	All state government agencies (a) QPS (b,c)
2.6.8	Continuously improve effective policing services to support bicycle use.	Long	QPS
2.6.9	Support the development and effective operation of Bicycle User Groups by: <ul style="list-style-type: none"> <li>a. compiling resources about how to start and successfully operate a Bicycle User Group</li> <li>b. investigating options for insurance coverage for Bicycle User Groups to conduct community rides and events</li> <li>c. involving Bicycle User Groups in local bicycle advisory committees, cycling forums and other networking opportunities</li> <li>d. equipping Bicycle User Groups to contribute to the development of cycling initiatives by providing information and technical training opportunities</li> <li>e. involving Bicycle User Groups in information dissemination and education, bicycle counts, network audits, assessing bicycle parking location needs, local network planning and design and local events, as appropriate</li> <li>f. encourage Bicycle User Groups to take part in ‘Super Tuesday’ bicycle counts across Queensland.</li> </ul>	Long	TMR LG BQ BUGs

\*Refer to the glossary on page 82



## 2.7 Ensuring road rules and legislative frameworks support cycling

It is important that the Queensland Road Rules, while promoting cyclist safety, do not present cycling barriers.

By addressing legal impediments to riding, the strategy vision of ‘more cycling, more often’ will be successfully advanced.

An audit of the Queensland Road Rules will provide opportunities to identify and amend rules that inconvenience cyclists, act as disincentives to cycling, or make bicycle networks less safe and efficient.

For example, protected cycleways of the kind used widely in Europe can be implemented in Queensland. However, there are some legal impediments to their seamless operation, including the requirement for cyclists to give way where they cross minor side streets. Such issues can be addressed through a combination of legislative change and careful infrastructure design.

Road rules that potentially act as disincentives to cycling may be reviewed.

Cycling network connectivity can be interrupted as a result of road rules. In this regard, Queensland and

Victoria are the only states that allow motor vehicles to park in bicycle lanes.

This reduces the natural ‘flow’ of a cycle route by lowering cycling speed and forcing cyclists to move in and out of traffic lanes, which creates safety risks.

Any changes to the Queensland Road Rules will only proceed after analysis of evidence, detailed consultation with stakeholders and any required endorsement by the Australian Road Rules Maintenance Group.

Table 2.7 provides an action to reduce legislative barriers to cycling.

**Table 2.7 – road rules and legislative frameworks**

Action	Description	Priority	Agency*
2.7.1	<p>Audit the Queensland Road Rules to identify those rules which make cycling inconvenient or unsafe. Investigate the feasibility of changes to traffic regulations and associated technical guidance that:</p> <ul style="list-style-type: none"> <li>a. increase safety, accessibility and priority for cyclists on road networks</li> <li>b. create opportunities to provide improved cycle network facilities</li> <li>c. minimise delay and dismount requirements at intersections.</li> </ul> <p>This review will be completed by December 2011.</p>	Short	TMR

\*Refer to the glossary on page 82



## Signature project two

# Bicycle education

**SP 2.1** Pilot and deliver nationally-accredited bicycle education programs suitable for children and adults.

**SP 2.2** Develop and maintain resources to inform and support schools, parents and carers when teaching children to ride.

The Queensland Government will work with other stakeholders to pilot and deliver a nationally-accredited bicycle education program suitable for children and adults.

### What is bicycle education?

Bicycle education and training programs assist people to learn cycling skills in a supportive setting, with a strong focus on teaching people to ride safely. Courses are structured to meet the needs of beginners through to more experienced riders. Participants progress to learning more advanced skills once they have achieved the overall outcomes and milestones of the previous level. Accredited trainers are responsible for assessing rider competencies and adjusting training sessions to meet individual requirements. Quality training gives people the knowledge and skills needed to cycle confidently and safely in groups, traffic and other riding environments.

### Bicycle education and safety

Surveys of Queensland cyclists tell us that about one-quarter of cycling injuries are a result of falling off a bicycle. About one-third are due to crashing into an object on a road or path, or skidding.

A further 15% are due to colliding with a motor vehicle, and 11% are due to collisions with another bicycle or a pedestrian<sup>9</sup>. These results suggest that many cycling injuries can be attributed to lack of cycling skills, risky cycling behaviour and poor bicycle maintenance. Increasing cycling skills and encouraging safe cycling behaviours and bicycle maintenance are essential for reducing cycling injuries. These measures can be delivered through quality bicycle education training<sup>10</sup>.

### Bicycle education for children

Obesity and climate change are two of the biggest challenges facing our state. Encouraging children to use their bikes more often can help address these challenges. However, the number of children being driven to school by parents or carers has increased significantly over the past three decades. Bicycle education is an essential component of any efforts to reverse this unsustainable trend. By providing professionally delivered cycle training, parents can gain confidence in allowing their children to ride to school. Children benefit from gaining a sense of freedom and increased social opportunities and independence that is lost by being driven to school.

### Bicycle education for adults

Bicycle education should be available to Queenslanders of all ages. Bicycle education is not just for children. Adults who are new cyclists or returning to cycling also need quality training support. The same outcomes for bike control and handling are expected from adults and children, but different teaching principles are involved.

Targeted training will help adults on their way to cycle more often for more trips.

### A national approach to bicycle education

For bicycle education to be successful, the Queensland Government recognises the need for a national standard to encourage consistency in best practice delivery. A number of organisations currently provide bicycle education in Australia, including Police Citizens Youth Clubs and AusCycle. For example, AusCycle has been identified in the *New South Wales Bike Plan* as a key supplier of cycling education within Australia. AusCycle is a joint venture between the Amy Gillett Foundation and Cycling Australia. This training program is the result of over a decade of research, which identified a strong need to develop a national training approach. Established in 2008 to deliver high quality cycling training by accredited teachers, AusCycle aims to encourage people of all ages to ride more often, more confidently and more safely.

<sup>9</sup> Heesch, Kristiann and Garrard, Jan and Sahlqvist, Shannon (2010), *What factors are associated with cyclists getting injured? Correlates of cyclist injuries in Queensland*. In: 2010 Australasian Road Safety Research, Policing and Education Conference, 31 August – 3 September 2010, National Convention Centre, Canberra.

<sup>10</sup> Heesch et al, 2010; and CARRS-Q (2008), "Bicycle Safety", *State of the Road: A fact sheet of the Centre for Accident Research and Road Safety – Queensland*, [www.carrs.qut.edu.au](http://www.carrs.qut.edu.au), accessed on 7 February 2011.

# Priority area three Creating cycle-friendly communities



Cycling offers many of the benefits of car use – reliability, the flexibility to leave when you want and the convenience of door-to-door travel – with the added benefits of being affordable, healthy and environmentally friendly.

When new communities and suburbs are designed to be ‘cycleable’ and ‘walkable’, the community as a whole can reduce its reliance on car travel.

Studies looking at how built environment characteristics are linked to physical activity (walking and cycling) have found:

- residents with a variety of destinations in close proximity walk and cycle more
- there is more walking and cycling in areas with higher residential densities
- high traffic volumes and unsafe routes discourage physical activity, particularly for children
- children travel more by active modes of transport in communities that have footpaths leading to schools

- residents are more physically active in communities with pedestrian and bicycle-friendly infrastructure to destinations of interest<sup>11</sup>.

The action tables in the following section include an implementation priority. The intended timeframes are:

- Short: 2011 – 2013
- Medium: 2014 – 2017
- Long: 2018 – 2021
- Existing: current action.

### 3.1 Integrating cycling into planning and development

**The Queensland Government, in partnership with local government, will plan cycle-friendly places and promote cycle-friendly communities.**

The shape and characteristics of our neighbourhoods is a key factor in supporting a cycling culture.

Planning to locate residential areas and community activities (such as schools, shops and workplaces) close together and adjacent to bikeways makes it more likely that people will cycle.

Developers increasingly recognise that planning for and delivering quality walking and cycling facilities can make communities more appealing for active transport.



<sup>11</sup> Medibank Private (October 2008), *The cost of physical inactivity*, [http://www.medibank.com.au/Client/Documents/Pdfs/The\\_Cost\\_Of\\_Physical\\_Inactivity\\_o8.pdf](http://www.medibank.com.au/Client/Documents/Pdfs/The_Cost_Of_Physical_Inactivity_o8.pdf), accessed on 18 June 2011

Local government planning schemes play an important role in creating cycle-friendly communities to help ensure:

- a highly interconnected street network that provides for walking and cycling

- good internal and external access for the community by walking and cycling
- an efficient and dense network of bikeways that gives cyclists a choice of routes

- appropriate end-of-trip facilities, including bicycle parking.

Table 3.1 details actions for integrating cycling into planning and development.

**Table 3.1 – integrating cycling into planning and development**

Action	Description	Priority	Agency*
3.1.1	Ensure strategic planning for regions and sub-regions, such as regional plans, encourages cycling-friendly development and supports provision for end-of-trip facilities.	Short	DLGP
3.1.2	Prepare and implement active transport infrastructure state planning instruments, including state planning policies and model codes to provide guidance on planning requirements, infrastructure standards, corridor protection, road hierarchy requirements and end-of-trip facilities. This includes a <i>Principal Cycle Network Plan</i> overlay code to guide local government planning schemes and ensure these are consistent across the state. Regional plans may identify principal cycle networks as part of transport network plans.	Medium	TMR DLGP
3.1.3	Develop guidance notes and best practice case studies for developers on incorporating quality cycling and walking connections into new developments.	Medium	TMR
3.1.4	Work with the Urban Land Development Authority to create high quality and innovative walking and cycling networks and support facilities in Urban Land Development Authority declared areas.	Long	DLGP TMR
3.1.5	Develop specific high quality and innovative standards and programs for cycling and walking for transit-oriented communities.	Medium	TMR
3.1.6	Implement policies that encourage cycling by: <ol style="list-style-type: none"> <li>using local planning instruments to increase the proportion of bike-to-car parking spaces in public and private developments in major centres and industrial areas</li> <li>providing guidance on the installation of bike parking within car parks in safe and convenient locations close to shop/building entrances</li> <li>investigating incentives to encourage commercial car park operators to convert one or more car spaces into end-of-trip facilities for cyclists.</li> </ol>	Short	LG
3.1.7	Support local governments to provide for cyclists' needs by: <ol style="list-style-type: none"> <li>promoting existing guides and standards to assist in including cycling in planning schemes, infrastructure standards and infrastructure charging schedules</li> <li>promoting good practice guides on how to prepare a bicycle network plan</li> <li>providing councils with new tools to model the costs and benefits of active transport projects</li> <li>promoting training in bicycle planning and design for council staff.</li> </ol>	Short	TMR DLGP
3.1.8	Ensure 'access and movement strategies' prepared as part of local area or neighbourhood plans give priority to cyclists and pedestrians.	Short	LG
3.1.9	Develop consistent policy and practice to provide access for cyclists to and within traffic generating developments.	Medium	TMR
3.1.10	Include cycle network infrastructure in priority infrastructure plans and where appropriate, fund through infrastructure charging schedules.	Medium	LG
3.1.11	Promote the <i>Active Healthy Communities</i> resource package to local governments and the development industry.	Existing	QH

\*Refer to the glossary on page 82

*more*  
**cycling,**  
*more often*  
*on safe, direct and connected routes*



## 3.2 Including end-of-trip facilities in development

**The Queensland Government will promote the installation and use of end-of-trip facilities at major destinations.**

End-of-trip facilities must be well designed, thoughtfully located and promoted to regular and casual users.

A high standard of end-of-trip facilities should be provided at workplaces to encourage employees to walk and cycle to work. These can be used by people walking to work or those who wish to exercise before work or during breaks.

Providing secure bicycle parking at schools and universities will also promote more cycling.

Bicycle parking can also be provided at cafes, shopping complexes, convenience stores, restaurants, movie theatres, pools, gyms and businesses frequented by short-term visitors. This will encourage people to make shorter trips by bicycle.

### Queensland Development Code

Mandatory end-of-trip facilities are now required for all new major developments or major additions to development in designated local governments. Major developments include office buildings, shopping centres, universities and hospitals with a floor area greater than 2000 square metres.

End-of-trip facilities include secure bike racks, lockers and change rooms where staff can shower, change and secure their belongings before starting work.

These mandatory requirements will encourage people to use alternative means of transport and promote a healthy, more active population. Building owners and tenants can expect benefits, including a healthier workforce, increased staff wellbeing, higher productivity, an improved corporate image and reduced demand for car parking.

Table 3.2 provides actions for end-of-trip facilities.



## Success stories

The Queensland Government is leading the way in providing end-of-trip facilities. TransLink Transit Authority and Queensland Health have adopted good practice end-of-trip policies which are delivering popular facilities. The private sector is also showing initiative in new workplaces.

### End-of-trip facilities and public transport

End-of-trip facilities are being included in new stations and major station upgrades.

TransLink Transit Authority and Queensland Rail now have a standard bicycle enclosure which includes personal lockers for storing helmets and equipment. These are installed at Burpengary, Bray Park, Bald Hills and Ormiston stations.

### Royal Brisbane and Women's Hospital Cycle Centre, Brisbane

The Royal Brisbane and Women's Hospital Cycle Centre opened in 2009 offering cyclists, joggers and pedestrians a state-of-the-art end-of-trip facility.

Built in partnership between the Department of Transport and Main Roads, Northern Busway Alliance and Queensland Health, the project was the result of rigorous research into facilities available in the area and forecast demand.

The centre promotes healthy living and active travel and is built to an ecologically sustainable design standard. Artwork on the side of the building promotes cycling and walking to passing traffic. Open 24 hours, it includes parking for 750 bicycles, showers, lockers, clothes drying rooms, ironing facilities, hair dryers, towel service and a dry cleaning service.

In February 2011, the centre had 409 members and growing.

### Workplace end-of-trip facilities

The HQ commercial development in Fortitude Valley, Brisbane, has incorporated a centre with facilities for 266 bicycles, lockers, showers, change facilities and towel service.

In addition to the cycle centre, there is a café in the foyer and racks for visitor parking provided outside in covered bays.

The inclusion of the cycle centre helped to achieve a six star rating from the Green Building Council of Australia, as well as promoting healthy lifestyles for the building's staff.

Table 3.2 – end-of-trip facilities

Action	Description	Priority	Agency*
3.2.1	Prepare guidelines and codes to support best practice provision of end-of-trip and other active transport facilities for cyclists and pedestrians into new developments.	Existing	DLGP TMR
3.2.2	Provide end-of-trip facilities for cycling and walking in new and upgraded public transport stations in south-east Queensland and regional centres. In higher demand locations, provide an over-supply of bicycle storage and actively promote this to increase use.	Existing	TTA TMR LG
3.2.3	As part of strategies to achieve ‘Green Star’ sustainability ratings for development, encourage the installation and use of high-standard bicycle parking and shower facilities: <ul style="list-style-type: none"> <li>a. in existing and new developments</li> <li>b. at facilities shared and supported by partnerships of adjacent businesses in regional and major centres</li> <li>c. tertiary education establishments.</li> </ul>	Medium	TMR LG
3.2.4	Require state agencies to offer high-standard access for cyclists as both employees and clients, by: <ul style="list-style-type: none"> <li>a. updating design guidelines to require provision of bicycle parking, showers and change facilities in all government buildings, developments and large-scale relocations</li> <li>b. defining and requiring good practice presentation of bicycle access information on agency websites and bicycle network maps</li> <li>c. encouraging active transport choices through TravelSmart workplace travel plans for government agencies.</li> </ul>	Existing	DPW TMR
3.2.5	Ensure bicycle parking is available at schools by: <ul style="list-style-type: none"> <li>a. providing up-to-date guidance to school communities on designing and locating bicycle parking</li> <li>b. providing secure bicycle parking in all new Queensland schools</li> <li>c. funding bicycle parking in existing schools through the <i>Safe Walking and Pedalling Program</i>.</li> </ul>	Existing	TMR DET
3.2.6	Trial installation of publicly accessible cycle centres (parking, showers, lockers) in regional activity centres and investigate ways to allow public access to government and private end-of-trip facilities where cycle centres are not available.	Medium	TMR LG
3.2.7	Ensure the provision of good practice end-of-trip facilities is included in planning schemes to complement the requirements of the <i>Queensland Development Code</i> .	Short	LG
3.2.8	Enhance and promote initiatives to prevent bicycle theft and recover stolen bicycles, including: <ul style="list-style-type: none"> <li>a. annual monitoring of bicycle theft rates and hot spots</li> <li>b. promoting bicycle engraving to cyclists</li> <li>c. informing cyclists on how to prevent theft</li> <li>d. informing bicycle parking providers on appropriate locations and quality of facilities.</li> </ul>	Medium	QPS
3.2.9	Provide convenient, safe and visible on-street bicycle parking in activity centres and other locations.	Short	LG
3.2.10	Investigate ways for businesses to retrofit existing buildings with end-of-trip facilities.	Medium	DLGP
3.2.11	Provide secure bicycle parking at rural school bus stops where a need is identified in local cycle network strategies or plans.	Medium	LG

\*Refer to the glossary on page 82

### 3.3 Delivering a safe cycle network

**The Queensland Government will ensure cycle network facilities are designed for safety and convenience, as a critical factor to their success.**

International evidence suggests that the more people who are cycling and walking, the safer each person becomes<sup>12</sup>. That is, cyclists become more visible to drivers expecting to see cyclists; a safety in numbers effect. At the same time, any efforts to promote cycling will be more effective if accompanied by safe cycle network facilities.

For many people, cycle network facilities that are physically separated from higher speed motor vehicle traffic are more attractive. Others, especially faster commuting or recreational cyclists, will prefer to ride on roads with bike lanes. Educating users and appropriately designing paths shared with

pedestrians is important to a safe and convenient network.

#### Targeted speed limit reduction

Lower traffic speeds can encourage more cycling, by creating a safer environment in which to cycle.

Many towns and neighbourhoods across Queensland have implemented lower speed limits in areas with higher numbers of pedestrians and cyclists.

#### Addressing cycling crash locations

The Department of Transport and Main Roads aims to provide safe access to the road system for cyclists and ensure a safe operating environment for non-motorised road users.

Identifying and fixing problem crash sites for cyclists is an important part of achieving this aim. The focus is on locations with two or more cycling crashes in a 100 metre section over five years.

Evaluation of the causes and treatments will be incorporated into the design process to improve cyclist safety. There should be a focus on narrow bridges, non-signalised intersections and roundabouts, which are generally less safe for cyclists.

The Department of Transport and Main Roads has committed more than \$9 million between 2009–10 and 2013–14 to address cycling safety issues on the state-controlled road network.

Table 3.3 details actions to deliver a safe cycle network.

**Table 3.3 – delivering a safe cycle network**

Action	Description	Priority	Agency*
3.3.1	Incorporate procedures for cyclists to report safety, security or maintenance issues into existing reporting systems, including new technologies such as smart phone applications.	Short	TMR LG
3.3.2	Undertake state-wide annual reviews of crash data and proactively assess cyclist risk to identify locations for treatment on state and local government roads.	Existing	TMR
3.3.3	Review and promote good practice design for the construction, line marking, lighting/delineation and signage of shared pedestrian and cycle paths to reduce conflicts and improve safety.	Short	TMR
3.3.4	Promote Crime Prevention Through Environmental Design principles, including regular training courses for designers, advice on projects and review of new developments.	Existing	TMR QPS
3.3.5	Provide guidance and training to state and local government road planning and design staff on assessing the safety and effectiveness of retrofit treatments, where normal design requirements cannot be met.	Short	TMR
3.3.6	Review road safety audit programs and training to ensure cycling needs are fully addressed.	Short	TMR
3.3.7	Expand the number and scope of projects that implement credible 40km/h or lower speed limits in areas of high pedestrian and/or cyclist activity.	Existing	TMR LG
3.3.8	Trial the use of user activated bicycle warning signage in constrained locations such as bridges, tunnels and narrow roads, where widening to provide a dedicated bicycle facility is not feasible.	Medium	TMR LG
3.3.9	Ensure that traffic controller training adequately covers cycling and pedestrian requirements at construction sites.	Short	TMR
3.3.10	Ensure bikeway design includes access for Emergency Services personnel in the case of a medical emergency.	Short	TMR LG
3.3.11	Before introducing a local law prohibiting cycling on footpaths, ensure that suitable alternative cycling facilities are provided.	Short	LG

\*Refer to the glossary on page 82

<sup>12</sup> Jacobsen (2003), "Safety in Numbers", *Injury Prevention* 9: 205-209; and Pucher, J. and Dijkstra, L. (2003), Promoting Safe Walking and Cycling to Improve Public Health: Lessons from the Netherlands and Germany, *American Journal of Public Health*, September 90(9), pp. 1509-1516.

## Signature project three

### Active towns

**SP 3.1** Pilot active towns programs in association with relevant state government agencies, local government and the bicycle industry. Evaluate outcomes and, if results are positive, expand to other towns and cities as funding becomes available.

Active towns programs focus infrastructure provision and encouragement intensively in a small number of communities with the aim of rapidly increasing cycling and walking.

The Queensland Government will pilot an active town program in three communities in partnership with local governments and the bicycle industry.

The pilot will provide an opportunity to assess the outcomes of best practice cycling infrastructure and promotion. There is no set recipe for what will lead to success. What will be important is having a good understanding of local needs and conditions.

Active town programs could include:

- cycle and walking network construction

- cycle centres/end-of-trip facilities/ bicycle parking
- bicycle education
- travel behaviour change programs cycling and walking champions
- bike week events
- ride/walk to work days
- ride/walk to school days.

Active town candidates must demonstrate that a range of community destinations (business, schools, retail) are within easy riding or walking distance from large residential population centres. They will require political support, and a commitment to sustained investment in infrastructure and promotion measures.

The success of the active town program will depend on local government integration of walking and cycling with other strategies, policies, program and activities. This encompasses areas of land use, maintenance, capital works, parking and vehicle access. A partnership approach between state agencies and local government is needed to coordinate delivery of existing programs into the active town program.



### Success story – cycling demonstration towns in the United Kingdom

In 2005, Cycling England launched a Cycling Demonstration Towns program to encourage more cycling through infrastructure provision, promotion and travel behaviour change programs.

In the first phase of the program, from 2005 to 2008, six towns received funding to significantly increase cycling levels.

Evaluation of the program found:

- an average increase of 27% in cycling across all six towns

- the increase resulted from more people starting to cycle, or returning to cycling (not just cyclists using their bikes for more trips)
- cycling to school has more than doubled in towns that invested the most in initiatives to support children riding to school
- cycling investment generated town-wide increases in physical activity

- the health benefits were calculated at around £2.50 for every £1 spent
- investment in cycling returns at least 3:1
- other benefits are realised, including reduced congestion and pollution.

A close-up, low-angle shot of a person riding a mountain bike on a dirt trail. The rider's right leg, wearing a black sock and a black and white cycling shoe, is visible, pedaling the bike. The bike's frame, handlebars, and front wheel are also visible. The trail is made of dirt and is surrounded by dry grass and some green vegetation. The background shows a clear blue sky with a few wispy clouds.

# Priority area four Developing a cycling economy

The direct economic benefits of cycling are significant for Queensland. Cycling creates jobs in retail, repair and service, event management, building infrastructure, planning and tourism.

Promoting the health, recreation, sport and tourism benefits of cycling also significantly expands the appeal of cycling.

With the appropriate strategies in place, more people cycling more often, for transport, recreation and sport will mean more jobs.

Cyclists currently save the economy \$63.9 million per year in reduced congestion costs and \$9.3 million in greenhouse gas emissions<sup>13</sup>.

The economic benefit of commuter cycling is \$144.3 million per year<sup>14</sup>.

In 2008, Medibank Private estimated the total economic cost of physical inactivity to the Australian economy to be \$13.8 billion each year<sup>15</sup>.

The action tables in the following section include an implementation priority. The intended timeframes are:

- Short: 2011 – 2013
- Medium: 2014 – 2017
- Long: 2018 – 2021
- Existing: current action.

### Mountain biking

Queensland offers a range of environments and opportunities for mountain biking, with events around the state to cater for every taste.

The largest events have a marathon format, with 500 to 1000 competitors cycling for 50 to 100 kilometres off-road.

Some well-known events include:

- Flight Centre Cycle Epic from Toowoomba to Grandchester with over 1000 riders each year
- Noosa Enduro through the Noosa Trail Network and local forests
- Cairns Rural, Rainforest, Reef – a long-distance event finishing at Port Douglas
- Croc Trophy in far north Queensland, a multi-day event that attracts international competitors.



<sup>13</sup> Bauman A., Rissel C., Garrard J., Ker I., Speidel R. and Fishman E., 2008 *Cycling: Getting Australia Moving: Barriers, facilitators and interventions to get more Australians physically active through cycling*, Cycling Promotion Fund, Melbourne.

<sup>14</sup> Bauman A., Rissel C., Garrard J., Ker I., Speidel R. and Fishman E., 2008 *Cycling: Getting Australia Moving: Barriers, facilitators and interventions to get more Australians physically active through cycling*, Cycling Promotion Fund, Melbourne.

<sup>15</sup> Medibank Private (October 2008), *The cost of physical inactivity*, [http://www.medibank.com.au/Client/Documents/Pdfs/The\\_Cost\\_Of\\_Physical\\_Inactivity\\_o8.pdf](http://www.medibank.com.au/Client/Documents/Pdfs/The_Cost_Of_Physical_Inactivity_o8.pdf), accessed on 18 June 2011.

## 4.1 Supporting cycle tourism

The Queensland Government will promote cycle tourism throughout the state, and provide for regional and rural cycle touring.

Cycle tourism in Queensland has the potential to provide a range of economic, social and environmental benefits to regional areas and the wider community.

Cycle tourism actively and positively contributes economically to regional, coastal and rural destinations. Cycle tourists are more likely than other tourists to participate in holiday activities like eating out, visiting art galleries and shopping.

As a growing industry, cycle tourism has the potential to boost regional and rural economies and encourage active and healthy lifestyles for visitors and residents.

Facilities which deliver safe riding conditions for tourists also provide recreation and transportation opportunities for the local area.

Major cycling events have the potential to contribute significantly to the Queensland economy, as well as enhance the national and international profile of Queensland.

Events Queensland is the government's lead agency for event acquisition, and increasingly is identifying, attracting, supporting and developing major cycling events. These include international cycling competitions, festivals and mass participation events like the Noosa Triathlon.

Table 4.1 details actions to support cycle tourism.

**Table 4.1 – cycle tourism**

Action	Description	Priority	Agency*
4.1.1	Identify and promote cycle tourism opportunities, such as: <ol style="list-style-type: none"> <li>regional experiences like food and wine tours, rail trails and coastal paths</li> <li>mountain biking events and connections across other national parks and publicly managed lands</li> <li>cycle-friendly tourism infrastructure and services</li> <li>major cycling events.</li> </ol>	Medium	TMR DEEDI TQ DERM LG EQ
4.1.2	Support the development of cycle tourism opportunities that are: <ol style="list-style-type: none"> <li>identified in tourism opportunity plans and destination management plans</li> <li>promoted through a consistent visual identity, including route signage where possible</li> <li>marketed through an online 'one-stop shop' of information on cycle tourism products across Queensland.</li> </ol>	Medium	TMR DEEDI TQ LG DERM BQ
4.1.3	Provide tools and information for tourism operators and prospective cycle tourists, including: <ol style="list-style-type: none"> <li>case studies on successful cycle tourism models</li> <li>advice on product planning, regulatory compliance, and growing and promoting tourism businesses through industry assistance services</li> <li>information on basic road rules relating to, and safety tips for, cyclists new to Queensland.</li> </ol>	Medium	Bicycle industry DEEDI TQ TMR
4.1.4	Investigate an online booking service for bicycle carriage on Queensland Rail Travel Services and provide for the carriage of bicycles on inter-city services in south-east Queensland (in off-peak periods).	Medium	Queensland Rail TTA
4.1.5	Support and promote a state-wide system of environmentally sustainable community recreation trails that could range from urban bicycle paths to non-motorised heritage trails and rugged mountain bike tracks.	Existing	DLGP TMR SRS
4.1.6	Maintain information to enable delivery of quality cycling activities through the <i>Queensland Adventure Activity Standards</i> which provide guidelines for conducting off-road cycling activities, including cycle tourism.	Existing	SRS

\*Refer to the glossary on page 82



## 4.2 Supporting the bicycle industry

The Queensland Government will encourage local cycling-related small businesses.

Australian bicycle sales have soared to record numbers in recent years. In 2010, Australians purchased 1.3 million bicycles, making it the eleventh consecutive year in which Australians bought more bicycles than cars. It is estimated that the Australian bicycle industry has contributed over \$11 billion to the Australian economy since 2000<sup>16</sup>.

Cycling manufacturers and retailers can help support the growth in cycling. They are able to communicate safety messages and training to new cyclists. By working

in partnership with industry, the Queensland Government can reach a large audience to help promote safe cycling messages.

Local cycling businesses have an intimate knowledge of their area's existing facilities and future needs for cycling. Local retailers have a role in promoting and supporting cycling for the growing number of people who are interested in riding.

Table 4.2 provides actions to support the bicycle industry.

**Table 4.2 – bicycle industry**

Action	Description	Priority	Agency*
4.2.1	Encourage the establishment of bike businesses in cities and towns, including: <ol style="list-style-type: none"> <li>packaging the hire of touring bicycles with accommodation and car hire</li> <li>cycle centre management</li> <li>bicycle repair kiosks</li> <li>bicycle deliveries</li> <li>bicycle guided tours</li> <li>bicycle hire.</li> </ol>	Long	TMR DEEDI LG
4.2.2	Encourage and support bicycle tours and bicycle hire schemes in cities and towns and to significant regional attractions.	Long	LG
4.2.3	Work with other jurisdictions to revise, advertise and enforce the national Australian Design Rules for power-assisted pedal cycles that can be used without vehicle licensing or rider registration, potentially based on: <ol style="list-style-type: none"> <li>specifications for maximum motor power and assisted speed</li> <li>auxiliary-only motor function</li> <li>pedalling assistance required to start motor</li> <li>product labelling to show efficiency.</li> </ol>	Medium	TMR
4.2.4	Promote bicycle mechanic training and bicycle maintenance skills courses.	Short	Bicycle industry
4.2.5	Promote 'support your local bike shop' messages and use other communication activities to support the bicycle retail sector.	Long	Bicycle industry
4.2.6	Develop 'buy a bike' and 'ride a bike' information and campaign material that can be used by bicycle retailers across Queensland.	Long	Bicycle industry
4.2.7	Explore partnership opportunities between cycling stakeholders to promote cycling and foster new opportunities to increase cycling participation.	Long	Bicycle industry

\*Refer to the glossary on page 82

<sup>16</sup> Cycling Promotion Fund (2011), Personal Communication – Cycling Promotion Fund Executive Officer. Also refer to Cycling Promotion Fund (2009), *Cycling Issue Sheet – Bicycle Sales 2009*, [www.cyclingpromotion.com.au/content/view/full/498/150/](http://www.cyclingpromotion.com.au/content/view/full/498/150/) accessed on 12 October 2010.

## 4.3 Supporting recreation and sports cycling

### The Queensland Government will encourage the development of cycling for sport and recreation.

Cycling for sport and recreation is growing in popularity. In 2009, 10.6% of Queenslanders aged 15 years and older cycled for sport or recreation, up from 8.7% in 2006<sup>17</sup>.

The strong performance of Australians in high-profile cycling events has contributed to a growing interest in cycling. This is in addition to the variety of cycling events which allow people to be involved and challenge themselves.

BMX, mountain biking (cross country, orienteering and adventure racing), Audax, bicycle trials, cycle touring, bicycle polo, kick biking, road

riding, triathlons, and elite racing on road and tracks are all showing an increasingly strong following.

Australia hosts and competes in national and international events. Many of these sports also encourage participation of juniors and families.

Australia has world champions in road racing and mountain biking.

The Queensland Academy of Sport fosters the champions of tomorrow.

The Queensland Academy of Sport cycling program focuses on developing Queensland cyclists to the level of national representation.

The program incorporates track and road cyclists and mountain bikers.

Continuing to support this is valuable to the Queensland community,

whether for sport or recreation.

Providing purpose-built facilities, allowing access to suitable areas for riding, and supporting the development of various cycling styles can help to maintain a vibrant and competitive sport and recreation sector. Management strategies exist to guide the use of public owned land for recreation, such as the Recreation Management Framework by SEQWater.

Charity bike rides help raise the profile of sport and recreational riding. Cycle events can encourage tourists to the area where the event is held.

Table 4.3 provides actions to support recreation and sports cycling.

**Table 4.3 – delivering a safe cycle network**

Action	Description	Priority	Agency*
4.3.1	Administer funding programs that support eligible sporting and recreational cycling clubs or organisations to encourage participation.	Existing	SRS
4.3.2	Promote safe on-road riding practices by training and racing cyclists, including a Code of Conduct prepared in consultation with key stakeholders.	Long	TMR
4.3.3	Support the development of mountain biking opportunities through: <ol style="list-style-type: none"> <li>providing a range of trails and recreational facilities, where appropriate, to facilitate opportunities for mountain bike access to and through designated public lands, including National Parks, State Forests, local government reserves, water storages and other Crown land</li> <li>promoting the development and use of sustainable mountain bike trails in suitable locations to encourage community participation</li> <li>recognising and supporting the role of private landholders to provide trails and opportunities for mountain bike events and general recreational use</li> <li>adopting and implementing International Mountain Bike Association (IMBA) standards for mountain bike trail classification, signage and trail features where appropriate. Collaborate with IMBA (Australia) and other relevant stakeholders on the development of alternative standards, as required.</li> </ol>	Medium	DERM LG DLGP SEQ Water SRS
4.3.4	Support sport cycling through the provision of funding to the Queensland Academy of Sport for a cycling and triathlon high-performance program.	Existing	SRS
4.3.5	Support the peak sport cycling body in Queensland through the provision of assessed funding assistance.	Existing	SRS
4.3.6	Maintain an international standard BMX Facility, as part of Brisbane's Sleeman sports complex.	Existing	Stadiums Qld
4.3.7	Support cycling-related projects, individuals or groups through a range of funding programs, including: <ol style="list-style-type: none"> <li><i>Sport and Recreation Infrastructure Program</i></li> <li><i>Young Athlete Assistance Program</i></li> <li><i>Sport and Recreational Active Inclusion Program</i>.</li> </ol>	Existing	SRS
4.3.8	Provide information to assist private landowners to make their land available for cycling and mountain biking-related events and activities.	Existing	SRS
4.3.9	Administer an event sponsorship program where sporting and recreational cycling events are eligible.	Existing	SRS

<sup>17</sup> Australian Sports Commission (2006 & 2009), *Participation in Exercise*, Recreation and Sport: Annual Report, Canberra.

\*Refer to the glossary on page 82

# Signature project four Recreation trails

**SP 4.1** Develop and deliver recreation trails and coastal pathways through partnerships with local governments and communities to support local economies and increase recreational cycling opportunities.

**The Queensland Government will implement recreation trails and coastal pathways throughout the state, expanding on the SEQ Active Trails Strategy and the Queensland Greenspace Strategy.**

Recreation trails are a great, and relatively low-cost way to provide outdoor recreation opportunities and encourage more recreational cycling. As more people gain confidence in riding for recreation, they may then consider cycling for other trip purposes.

Access to quality recreation trails improves the health and vitality of local communities. Getting more people active contributes to reducing the high levels of obesity among Queenslanders. Recreation trails help to reach the Toward Q2 vision to create a green and healthy Queensland. They must demonstrate how the state government, through *Growth Management Queensland*, is protecting more land for public recreation and delivering sustainable outcomes for Queenslanders.

Protecting linear corridors for future trail and commuter pathways can play a complementary role in the delivery and vision of the *Queensland Cycle Strategy 2011–2021*.

### Recreation trails in Queensland

The Queensland Government is investing \$8.8 million over five years to develop three new regional recreation trails – the Brisbane Valley Rail Trail, Maroochy River Trail and the Boonah to Ipswich Trail. An additional \$4 million over 10 years is available to the Tablelands Regional Council to develop a rail trail from Mareeba to Atherton. As well, \$1.1 million will be invested to develop the disused rail corridor at Yeppoon into a commuter pathway.

These recreation trails will provide opportunities for residents and visitors to explore and experience some of Queensland’s most scenic landscapes. Connections to recreation trails closer to activity centres also act as the principal cycle network and promote cycling for a wider range of trips.

Delivery of similar trails across Queensland will help to get more people active through walking, cycling and horse riding, and contribute to the economic vitality of local areas.

### Benefits of recreation trails

Recreation trails deliver recreation, social and health benefits to users as well as adjacent coastal, rural and residential communities. Trails offer excellent recreation opportunities to families, bicycle tourists, mountain bike riders, historical enthusiasts, horse riders and walkers.

They also offer potential to establish native wildlife corridors and contribute to environmental conservation.

## Boonah to Ipswich Trail

The Boonah to Ipswich Trail will be a 68 kilometre, multi-use, non-motorised recreation trail connecting the communities of Ipswich and Boonah. The trail will also connect the 40 kilometre network of multi-use and single-use recreation trails developed as part of the Wyaralong Dam precinct and Ipswich City Council's Flinders Goolman Conservation Estate. This includes Hardings Paddock Picnic and Flinders Plum Picnic areas.

The Boonah to Ipswich Trail will provide outdoor recreation opportunities for current and future populations of south-east Queensland, particularly the communities of:

- greater Ipswich and the Western Corridor
- Ripley Valley
- southern Logan City
- Boonah
- Beaudesert
- proposed urban centres of Greenbank Central, New Beith and Flagstone.

By current estimates, in 2026 these neighbouring communities will have a combined population of approximately 640 000.

### What is a rail trail?

A rail trail is a recreation trail that uses a disused rail line.

There are over 30 established rail trails in Australia, the majority of which are in Victoria. In Queensland, the Fernvale to Lowood Rail Trail and the Linville to Blackbutt Rail Trail have been open for a number of years. Both trails will become part of the Brisbane Valley Rail Trail. Over 100 kilometres of the Brisbane Valley Rail Trail is open to the public. When completed, the Brisbane Valley rail trail will be 161 kilometres long and extend from Wulkaraka to Yarraman – the longest rail trail in Australia.

### Why are they popular?

Rail trails are popular because they are:

- often accessible from large population centres
- close to existing or easily developed tourism infrastructure in or near townships along the rail trail – places to eat, explore and stay
- a car-free facility for people to walk or ride bicycles in safety to school and the shops, or just to enjoy the scenery
- a pleasant experience even in hilly country because trains, like walkers and cyclists are not partial to steep gradients
- a long continuous natural heritage corridor.

In the USA, a comprehensive health economics study showed every US\$1.00 invested in recreational trails for physical activity yielded a direct medical benefit of US\$2.94<sup>18</sup>.

Many of the disused rail lines in Australia are in country areas, providing unprecedented access to and through some spectacular scenery and bushland, along with associated personal and community benefits. In local communities, opportunities to provide refreshments, meals, accommodation and camping supplies have the potential to bring significant economic benefits to communities along the trail.

In this way, trails provide a significant economic benefit to local communities.

The Murray to the Mountains Rail Trail in north-eastern Victoria is one of the better known rail trails in Australia. Recent studies on this trail found that average expenditure was \$258 per person per day<sup>19</sup>.

The average expenditure on the Otago Central Rail Trail (a well known rail trail in the Otago region of New Zealand's South Island) is NZ\$92.80 per person per day, with an average length of stay of 3.8 days. Over 200 employment opportunities have been created from this project<sup>20</sup>.

Rail trails are a valuable tourism attraction, especially when marketed well. Trails can help instil a conservation ethic among users and educate users about the attributes of an area, especially when good interpretation is a feature of the trail.

<sup>18</sup> Wang, G., Maccera, C.A., Scudder-Soucie, B., Schmid, T., Pratt, M. and Buchner, D. (2005), "A cost-benefit analysis of physical activity using bike/pedestrian trails", *Health Promotion Practice*, April 6 (2): 174-79.

<sup>19</sup> Beeton, S. (2006), *Regional Communities and Cycling: The case of the Murray to the Mountains Rail Trail*, Victoria, Australia, Latrobe University, Australia, 17.

<sup>20</sup> Otago Central Rail Trail Trust (2005), *The Otago Central Rail Trail Means Business Survey*, November.

## Recreation trails in Queensland

There are many disused rail corridors in Queensland. Like coastal and other trails, rail trails offer opportunities to enjoy Queensland's natural spaces. All provide the opportunity to be developed into recreation trails and commuter pathways. A number of disused rail corridors have been identified as providing opportunities for rail trails.

The top five rail trail opportunities are:

- Atherton Tablelands Rail Trail – 34 kilometres
- Bethania to Beaudesert Rail Trail – 42 kilometres
- Extension of the Brisbane Valley Rail Trail from Blackbutt to Yarraman – 19 kilometres
- Caboolture to Wamuran Rail Trail – 11.2 kilometres
- Kingaroy to Theebine Rail Trail – 132 kilometres.

### Atherton Tablelands Rail Trail

The Queensland Government has made available \$4 million over 10 years to the Tablelands Regional Council to develop a rail trail from Mareeba to Atherton. Consideration will be given to developing the Atherton to Tolga corridor as a commuting route with an asphalt surface and the Atherton to Ravenshoe corridor as a rail trail.

### Bethania to Beaudesert Rail Trail

The disused Bethania to Beaudesert Rail Corridor is identified as a possible rail trail, with sections developed as bikeways where it crosses developed areas. The rail trail within the Logan City Council area is 32 kilometres.

This proposed rail trail will provide a valuable recreational and commuting link for locals and a great attraction for visitors from Brisbane and beyond. Trip destinations include educational facilities, shopping

centres and recreational facilities, and these are easily accessed by public transport.

A feasibility report found about 33 000 locals could use the track each year, plus 20 000 day-trippers and 1500 overnight visitors. It is estimated that users would provide about \$843 000 in economic benefits to surrounding areas each year.

### Brisbane Valley Rail Trail

The 19 kilometre extension of the Brisbane Valley Rail Trail from Blackbutt to Yarraman will provide 161 kilometres of recreation trail, connecting the urban centres of Wulkaraka to Blackbutt. This trail already provides 100 kilometres of trail allowing walkers, touring cyclists and horse riders to experience the history and landscape of the Brisbane Valley and South Burnett regions.

The trail follows the old Brisbane Valley railway line along the western side of the Brisbane River and will traverse farming landscapes, native and plantation forests, rural residential areas and country towns. The Brisbane Valley Rail Trail is well located to service the growing population of the western corridor. The growth of this region is directed by the *South East Queensland Regional Plan*.

Cyclists, walkers and horse riders will be catered for by a range of services, accommodation and facilities in towns along the trail. Due for completion in 2012, it will be one of the longest rail trails in Australia.

### Caboolture to Wamuran Rail Trail

The 11 kilometre rail corridor has not been used regularly for 15 years, some rail infrastructure still remains. Much of the steel track, the ballast and all three bridges remain. Using the corridor as a rail trail and commuter pathway is an opportunity to connect the urban centre of Caboolture with schools, communities and business along the corridor.

## Kingaroy to Theebine Rail Trail

The Kingaroy to Theebine railway line was officially closed in early 2010.

The Kingaroy to Theebine Rail Trail can connect the Brassall Bikeway, Brisbane Valley Rail Trail and the Bicentennial National Trail. Developing this rail corridor into a rail trail would deliver a continuous recreation trail over 350 kilometres in length. It would also connect the communities of Ipswich to the Sunshine Coast, with a trail traversing the regional and rural communities of Somerset and South Burnett.

The significant economic contribution to the local communities through linking these recreation trails are highlighted in the *South East Queensland Country Tourism Plan*.





Part C

# Implementation

# Implementing the strategy

## 5.1 A coordinated approach

**The Queensland Government will implement the *Queensland Cycle Strategy 2011–2021* in a collaborative and coordinated way, and regularly advise stakeholders and the community of its progress.**

The *Queensland Cycle Strategy 2011–2021* is a whole-of-government strategy. It has been developed collaboratively by state and local governments in consultation with the cycling industry and Bicycle User Groups.

Because so many different stakeholders are involved in achieving cycling outcomes, a coordinated approach to strategy implementation is essential.

The Queensland Bicycle Council includes representation from state and local government, the bicycle industry and the community. Under the leadership of the Department of Transport and Main Roads, the council will meet regularly to address strategic cycling issues and facilitate collaboration among stakeholders across the state to implement the strategy.

The day-to-day coordination of strategy implementation will be overseen by the Department of Transport and Main Roads. This will include prioritising work on the strategy, reviewing progress and considering any new initiatives that emerge.

Implementation of the strategy will provide opportunities to:

- accelerate planning and delivery of Principal Cycle Networks
- work in partnership with local councils to deliver local cycle networks
- ensure new communities and building developments incorporate cycling facilities.

Agencies with lead responsibility are listed first in action tables for each action in the strategy. Responsible agencies play a major role in resourcing, developing, implementing and monitoring progress against actions. Responsible agencies will work in partnership to support action implementation.

The strategy includes actions that aim to make cycling safe, attractive and convenient. To ensure that the most critical actions are implemented first, each action has been prioritised so that resources are used most effectively. Actions are prioritised as follows:

- short – high priority action to be introduced, implemented or commenced between 2011 and 2013
- medium – medium priority action to be introduced, implemented or commenced between 2014 and 2017
- long – action to be introduced, implemented or commenced between 2018 and 2021
- existing – maintain (and extend or improve as relevant) existing policies, programs and projects.

Table 5.1 details the required actions to implement the strategy.

**Table 5.1 – actions for a coordinated approach to deliver the strategy**

Action	Description	Agency*
5.1.1	Coordinate <i>Queensland Cycle Strategy 2011–2021</i> implementation and regularly review progress on high priority actions through the Queensland Bicycle Council.	TMR
5.1.2	Convene key stakeholders to undertake regular action planning and prioritisation of strategy actions. This may be complemented with state or regional cycling forums or other means.	TMR
5.1.3	Report to government on strategy implementation progress through <i>Growth Management Queensland</i> .	TMR DLGP
5.1.4	Ensure bicycle programs are appropriately resourced and establish and maintain local bicycle advisory committees where needed. Bicycle advisory committees will provide a local stakeholder coordination forum for bicycle-related issues.	LG
5.1.5	Include cycling performance indicators in the <i>Transport and Main Roads Annual Report</i> .	TMR
5.1.6	Establish an information-sharing mechanism for raising awareness about the strategy and work being done by all stakeholders to implement it.	TMR

\*Refer to the glossary on page 82

## 5.2 Funding the strategy

As a whole-of-government strategy, funding and resources for implementation of the *Queensland Cycle Strategy 2011–2021* are the responsibility of a range of agencies and linked with multiple government strategies at local, state and national levels.

The strategy provides direction and an agenda for action to grow cycling. It is anticipated that state agencies, local governments and other strategy partners will continue to incorporate cycling initiatives within existing policy and program priorities,

and seek additional funding for specific projects as required. Full achievement of strategy targets will require significant and continuing investment by all levels of government.

Table 5.2 details actions to fund the strategy.

**Table 5.2 – actions for funding the strategy**

Action	Description	Agency*
5.2.1	Identify resources required to implement actions in <i>Queensland Cycle Strategy 2011–2021</i> and incorporate into existing programs, or establish new programs, including regional programs, as required.	All stakeholders
5.2.2	Develop a demand forecasting methodology for new cycling infrastructure and initiatives.	TMR
5.2.3	Develop an economic cost-benefit analysis methodology for new cycling infrastructure and initiatives.	TMR QH

\*Refer to the glossary on page 82

## 5.3 Performance indicators and strategy monitoring

A state-wide monitoring framework containing performance indicators for the strategy will be prepared to inform progress on the strategy's implementation. These indicators will be included in a *State of Cycling in Queensland Report* to be published every two years. Performance indicators are chosen on the basis of their capacity to represent Queensland-wide data (see Table 5.3). As more data becomes available, further work to set targets and monitor all types of cycling trips will be carried out.

The aim of the performance

indicators is to measure the success of each priority action area. Additional data sources will be required to achieve this.

The ongoing collection and analysis of active transport data has a vital role in the implementation of the strategy to:

- guide investment and enhancement decisions based on objective information
- demonstrate how the strategy is delivering the desired community and government outcomes

- assist with ongoing planning for cycling.

This type of information can only be obtained if bicycle usage trends are consistently and objectively recorded and analysed.

As further data is gathered for cycling across the state, the overall targets for cycling will be expanded to encompass all four priority action areas.

Table 5.4 details actions under the strategy to monitor implementation.

**Table 5.3 – cycling performance indicators and data sources**

Indicator	Description	Data sources*
1	Comparative number of people cycling	<ul style="list-style-type: none"> <li>• census data (every five years)</li> <li>• permanent bicycle monitoring stations and annual counts at strategic locations</li> <li>• state-wide or regional cycling participation surveys</li> <li>• recreation and sport cycling surveys (both on and off-road cycling)</li> <li>• school cycling counts</li> </ul>
2	Comparative frequency of people cycling	<ul style="list-style-type: none"> <li>• Transport and Main Roads <i>Sustainable Transport Survey</i> and household travel surveys</li> <li>• recreation and sport cycling surveys (both on and off-road cycling)</li> </ul>
3	Kilometre length of safe, direct and connected bike routes	<ul style="list-style-type: none"> <li>• Cycle Network Program data</li> <li>• crash data</li> <li>• state and local government network inventory data</li> <li>• DERM inventory data</li> <li>• DLGP inventory data</li> </ul>
4	Amount of support by government and the community	<ul style="list-style-type: none"> <li>• attitudinal survey data</li> <li>• expenditure on cycling</li> </ul>

\*Refer to the glossary on page 82


**Table 5.4 – actions for a coordinated approach to deliver the strategy**

Action	Description	Agency*
5.4.1	Prepare an active transport data strategy to quantify the benefits of the proposed initiatives and monitor progress against the targets and actions in the <i>Queensland Cycle Strategy 2011–2021</i> .	TMR
5.4.2	Develop measures and targets for all types of cycling trips (not just journeys to work) that can be applied across Queensland or in specific locations.	TMR
5.4.3	Publish a biennial <i>State of Cycling in Queensland</i> Report, reporting bicycle usage against the <i>Queensland Cycle Strategy 2011–2021</i> outcomes and state and local government expenditure on cycling-related infrastructure and initiatives.	TMR
5.4.4	Improve the quality, coverage, and consistency of cycling data, by: <ul style="list-style-type: none"> <li>• installing permanent bicycle and pedestrian traffic monitoring stations across the cycleway network</li> <li>• requiring the use of relevant data-gathering and electronic mapping tools by local governments seeking Queensland Government cycle network funding</li> <li>• incorporating bicycles into the annual state-wide traffic survey</li> <li>• undertaking annual counts of bike parking at transport hubs, selected schools and key regional activity centres</li> <li>• undertaking ‘before’ and ‘after’ bicycle traffic and parking counts for all new infrastructure and initiatives</li> <li>• conducting annual bicycle and pedestrian cordon counts in five indicator towns or communities</li> <li>• publishing the data gathered on the Queensland Traffic and Travel Information website.</li> </ul>	TMR LG
5.4.5	Quantify and monitor the number of cyclists and pedestrians using the network during specific times, such as weather changes (eg. rain, humidity), cost of living changes (eg. petrol, inflation), infrastructure events (eg. bridge closure or opening), and transport system events (eg. train/bus strike).	TMR LG
5.4.6	Undertake further research into active transport data development and reporting, by: <ul style="list-style-type: none"> <li>• piloting innovative measures for making data on cycling and walking publicly available in real or near time</li> <li>• exploring options for benchmarking methods that provide comparative data on Queensland’s performance against world recognised cycling and walking cities</li> <li>• testing use of new and emerging technologies in collecting real-time information on user behaviour through smart phones and other widely available applications.</li> </ul>	TMR
5.4.7	Develop standardised methodologies to allow consistent and continual recording of active transport data, such as origin-destination, travel time, route choice, intercept surveys and classified traffic and parking counts.	TMR

\*Refer to the glossary on page 82



*more*  
**cycling,**  
*more often*  
*on safe, direct and connected routes*

# Glossary

**Accessibility** – The ease with which people can travel from one place to another by different modes of transport. Includes access by people with disabilities.

**Active school travel programs** – Programs to support and encourage public transport, walk and cycle trips to and from schools.

**Active towns** – Active towns programs focus infrastructure provision and encouragement intensively in a small number of communities with the aim of rapidly increasing cycling and walking.

**Recreation trails** – A relatively low cost way to provide cycling recreational opportunities.

**Active transport** – Non-motorised travel, such as walking and cycling.

**Activity centres** – Areas of employment, residential and/or retail activity. Larger cities can have several activity centres.

**AusCycle** – Established in 2008 to deliver high quality cycling training by accredited teachers.

**Bicycle education** – Education and training programs that assist people to learn cycling skills in a safe and supportive setting.

**BUGs** – Bicycle User Groups are groups whose members support, encourage and advocate for cycling in communities and workplaces.

**BQ** – Bicycle Queensland

**Complete 5** – A program designed to complete Principal Cycle Network connections within five kilometres of key centres to deliver a connected cycle network.

**Congestion** – In the context of transport, a condition where the use of a piece of infrastructure exceeds the level at which it functions efficiently.

**Connect To** – A program to construct cycle links to key public transport stations and stops (up to five kilometres), supported by bicycle parking and end-of-trip facilities.

**Cycleable** – The ease of cycling in a particular location.

**Cycle-friendly communities** – Communities designed to be ‘cycleable’ to reduce reliance on car travel.

**Cycling culture** – Queensland is a place where cycling is widely supported, encouraged and celebrated.

**Cycling economy** – Recognises cycling’s ability to create jobs in retail, repair and service, event management, building infrastructure, planning and tourism.

**DEEDI** – Department of Employment, Economic Development and Innovation

**DERM** – Department of Environment and Resource Management

**DET** – Department of Education and Training

**DLGP** – Department Local Government and Planning

**DPW** – Department of Public Works

**Educated ways** – Ensuring safe and connected routes are provided for major schools, universities and TAFEs, focusing on a three kilometre catchment around these educational institutions.

**End-of-trip facilities** – Facilities for cyclists and pedestrians which can include bicycle parking, lockers, change rooms and showers.

**EQ** – Events Queensland, the lead agency for event acquisition in Queensland reporting to the Premier.

**GPS** – Global Positioning System

**IMBA** – International Mountain Bike Association

**LG** – Local government

**NZ** – New Zealand

**Mode share** – The proportion of trips made by particular modes of transport, including walking, cycling, motor vehicle and public transport.

**PCNP** – Principal Cycle Network Plans guide the provision of regionally significant cycling facilities across different regions of Queensland. They identify the ‘arterial’ roads for cycling.

**Protected cycleways** – Physically separated cycleways from both motor vehicle traffic and pedestrians by raised kerbs and parking.

**QBC** – Queensland Bicycle Council. Includes representation from state and local government, bicycle industry and the community. It meets regularly to facilitate collaboration among stakeholders across the state to implement the strategy.

**QH** – Queensland Health

**QPS** – Queensland Police Service

**Responsible agencies** – Identified for each action in the strategy. Responsible agencies play the major role in resourcing, developing, implementing and monitoring progress against actions.

**SRS** – Sport and Recreation Services, Department of Communities

**Strategic cycle networks** – The highest priority links in the Principal Cycle Network. They connect activity centres and other major cycling attractors.

**Super Tuesday** – Australia’s largest visual bicycle count providing annual figures on bicycle commuting. Organised by Bicycle Victoria.

**TAFE** – Technical and Further Education

**TMR** – Department of Transport and Main Roads

**TQ** – Tourism Queensland

**TravelSmart** – A program that supports investment in public transport, walking and cycling to encourage a change in travel behaviour in homes, schools and workplaces.

**TTA** – Translink Transit Authority

**UQ** – University of Queensland

**Veloway** – High standard bicycle paths (wide with a direct alignment) generally used where high numbers of cyclists are expected.

**Wayfinding** – Includes signs, maps and electronic devices to help guide cyclists and pedestrians to their destinations.

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