



**BicycleNSW submission**

**Independent Public Inquiry into a Long Term Public Transport  
Plan for Sydney**

**Chaired by Mr Ron Christie  
With support from *The Sydney Morning Herald***

**8 October 2009**

**Contact:**

**Alex Unwin  
CEO Bicycle NSW  
1<sup>st</sup> Floor Heritage Building A  
1 Herb Elliott Avenue  
Sydney Olympic Park  
NSW 2127**

**Tel: 02 9704 0810**

## Table of Contents

About BicycleNSW.....	4
Executive Summary .....	4
Topic 1 - Long term transport plan for Sydney metropolitan area related to urban metropolitan plan.....	5
Topic 2 - The optimisation and <i>integration</i> of existing public transport operations (including ferry, bus, light rail and heavy rail) + car sharing.....	6
Rising to the challenge: cycling-friendly places .....	6
Cycling catchments for transit-oriented development .....	6
Mix of modes in Sydney .....	6
Carriage of bicycles on public transport.....	6
Topic 3 - The <i>expansion</i> of public transport services and infrastructure, as well as <i>cycle [commuting] infrastructure</i> , over a 30-year planning horizon, taking into account existing transport accessibility problems and integration with future land use changes .....	7
Topic 4 - The most appropriate <i>governance arrangements</i> to guarantee the plan's longevity to remove the negative impact of single-term party politics and to optimise investments.....	9
Critique of draft City Centre planning: towards improvements .....	9
Request.....	10
Topic 5 - Key environmental sustainability issues.....	10
Topic 6 - Key social and economic issues.....	11
Towards sustainable transport: social change and encouraging local transformations.....	11
Topic 7 - Proposals for short term and long term funding .....	11
Transport Corridors, linking Centres, and “Strategic Cycle Network” and local bicycle networks .....	11
Short term.....	12
Topic 8 - The cost-effectiveness of solutions, taking into account short term financial costs and benefits, and longer term environmental, congestion and other external costs and land use and accessibility benefits .....	12
Wrapping up - key actions to enable people to cycle more often .....	12

APPENDICES .....	13
Appendix 1 - BicycleNSW's Strategy 2008- 2011 .....	13
Appendix 2 - BicycleNSW submission to Senate Committee inquiry into public transport investment .....	14
Appendix 3 - Extracts BicycleNSW submission to Sustainable Cities Inquiry, October 2003 .....	31

## About BicycleNSW

Bicycle NSW is a member-based association dedicated to one goal: *more people cycling more often*. This necessitates more places to ride safely, and places to ride to. In order to achieve this Bicycle NSW promotes, through advocacy, cycling as an environmentally sustainable and healthy means of transport.

Bicycle NSW believes that the role of media in civil society can play a constructive role in promoting public discussion of our society's future transport services, its goals, and investment priorities. We consider that long-term planning, shaped by the principles of ecologically sustainable development, including inter-generational equity, requires a break from business-as-usual practices to embrace more innovative practices to be able to secure a more equitable future for Australia's largest city.

## Executive Summary

Bicycle NSW is pleased to provide a submission to the Independent Public Inquiry into Sydney's Long Term Public Transport Plan sponsored by The Sydney Morning Herald. In addition to its terms of reference, BicycleNSW appreciates the use of designated reference works, that is:

- Discussion Paper, *A 30-year public transport plan for Sydney*, by Dr Garry Glazebrook, August 2009
- Background paper. *The long-term strategic plan for rail*, by Ron Christie, 2001
- Context document. *Metropolitan Strategy for Sydney*, NSW Government, released 2005.

Bicycle NSW welcomes this Inquiry for three main reasons:

### 1) Reference (ii) expressly nominates cycle infrastructure.

Expansion of cycling infrastructure has an essential role in overcoming current transport accessibility problems for people now and into the future in the context of the changing urban land uses. Sydney lags most pitifully on cycling infrastructure and safe cycling compared to other Australian cities - almost double the 'doorings' compared to Melbourne - and international cities aspiring to good urban governance.

### 2) The reference works emphasise that **investments in transport services are needed for more people** to use public transport, cycling, walking more often, more safely and more easily to get to where they need to go, and for getting around their local neighbourhoods and to centres of activity; by implication, investments of capital and personnel need to be shifted away from business-as-usual practice of support for car-based travel by all tiers of government.

### 3) The **process of public engagement and discussion about transport services** -for walking, cycling and public transport - as essential human services for people, young and old, like electricity rather than discretionary

services. The public process is more easily sympathetic to a holistic approach, that is an approach that acknowledges the wider benefits of shifting the transport sector toward being more sustainable not only in terms of lower carbon but more immediately for health, social inclusion, Sydney's environment and urban livability.

BicycleNSW concurs with Independent Inquiry's focus for Sydney's transport services on funding, governance and integration with land use. We believe in ongoing dialogue in policy development and delivery and accountability processes.

In preparing this submission we have sought input from our members and other stakeholders to bring together as many useful ideas as we can. We welcome further discussion and questions, and BicycleNSW can provide the Inquiry with a range of supportive research and information on the benefits of cycling.

## **Topic 1 – Long term transport plan for Sydney metropolitan area related to urban metropolitan plan**

Bicycle NSW believes that conditions/services for walking and cycling should be mainstreamed and part of any transport plan as it is available to more people than any other form of mobility.

Cycling has an intrinsic relation to public transport and public transport investment; it is available to a far wider age range than driving; and transport decision-making would benefit by considering cycling catchments of possible new services, stops and technologies. Multimodal travel (and with car sharing) has considerable capacity to avert the continuing reliance on private cars and car travel in Sydney.

For this Inquiry, therefore, we have presumed that cycling be considered under each and every topic. Incidentally, we made a similar assumption in our submission to the recent Senate Transport Committee Inquiry. We commend their report, particularly Chapter 4 (and pages on oil/energy security), and **attach** a copy of our submission as an Appendix.

BicycleNSW suggests that catch-up funding is needed. Conditions for walking and cycling have been neglected for decades; safe, connected and continuous paths of travel with crossings are needed. Priority can be given to getting around centres and between centres to activities such as schools, higher education, sports, workplaces etc. While the neglect of walking and cycling are similar, there are important differences which require each to be given specific treatment and to avoid ever inferring to them as walking/cycling.

BicycleNSW supports there being an agreed plan for integrated or connected networks across the metropolitan area, plus a more effective means of ensuring timely delivery of minor and major infrastructure. We concur with Dr Glazebrook's observation:

*“This requires any projects to be part of a robust, widely supported, long-term plan. Without such a plan there is a risk of “white elephants” - projects which absorb all available funds but which do not deliver widespread benefits or*

contribute to a cost-effective solution to our transport needs.” (Glazebrook 2009 p. ii)

## **Topic 2 - The optimisation and *integration* of existing public transport operations (including ferry, bus, light rail and heavy rail) + car sharing**

The 2005 Metro Strategy of the NSW Government, ‘City of Cities - A Plan for Sydney’s Future’ notes explicitly that:

*‘Sydney has an extensive transport system in place which can be improved. The challenge is how to provide the ability for people to access activities while minimising the costs to households, the environment and business.’<sup>1</sup>*

### **Rising to the challenge: cycling-friendly places**

BicycleNSW considers that in rising to the ‘challenge’ for better sustainable urban mobility ‘transport operations’ and budgets need to become more people-friendly and oriented towards users and people on foot and riding bicycles. None of the State public transport service providers (nor indeed the public road service providers) has yet adopted a modern policy in relation to cycling. Perhaps ferries have a good chance in the shorter term with the wharf upgrade program.

### **Cycling catchments for transit-oriented development**

Owing to the efficiency of cycling and cycling catchment around railway stations and ferry wharves, it would seem integrating access by bicycle to public transport stops has potential for servicing a wider geographic community than the 400m walk catchments used in bus planning.

### **Mix of modes in Sydney**

The mix of modes to serve a large metropolitan area hasn’t been handled well in Sydney as we suffered from mode-thinking rather than mobility thinking. Equivalent large metropolises have adopted a mix of modes, that are well integrated - a subject covered well by expert Professor Vukan Vuchic, a visitor from the University of Philadelphia who has been an adviser in Perth and Sydney.

### **Carriage of bicycles on public transport**

Cycling has a close affinity with public transport and offers great flexibility for personal mobility. This is more the case for rail and ferry services than bus services in Sydney. Hence the reliance on buses, or in the future ‘jitneys’, rather than heavy or light rail disadvantages people who wish to carry bicycles. Since the Inquiry is concerned with a long-term plan, carriage of bicycles by taxis should also be on the agenda.

Even ‘rail buses’ rarely accept the carriage of bicycles other than folding bicycles - although they buses may carry surfboards. Some rationalisation of policy towards bicycle-friendly is desirable.

---

<sup>1</sup> <http://www.metrostrategy.nsw.gov.au/dev/uploads/paper/introduction/index.html>

Bicycle NSW believes that transport and urban planners should recognise both walking and cycling catchments for interchanges on Sydney's public transport network. Currently, only a walking catchment of 400m is used for bus stops. It would be useful for the newer empirical findings from studies for the draft NSW BikePlan to be utilised - in both the proposed revised Guidelines for Walking and Cycling and the review of the Metro Strategy.

Bicycle NSW understands that the Sydney Metro, a statutory corporation, plans to:

- restrict some bicycles on the Metro system, between Rozelle and Central
- provide secure bike parking at stations, and
- complete negotiated Memoranda of Understandings (MOU) with each of the City of Sydney Council and Leichhardt Council, among other matters, on safe bicycle routes within the catchment of each station.

It seems reprehensible that the Metro Rail project team evidently had not considered walking or cycling catchments to its railway stations - perhaps this is illustrative of a project-focus rather than integrated multi-modal planning in which cycling (and walking) are given due regard in 30 year plus schemes.

Suggestions that bicycle carriage will be superseded by bicycle-sharing schemes operating at railway stations seem overly ambitious. To assist in the discussion, Leichhardt Bicycle User Group has produced a highly informative paper with references to international best practice.

A special carriage should be designated for groups of cyclists as occurs on Melbourne's Metlink trains, whereby the last carriage is designated - and regularly used - by several cyclists traveling together.

Allowing for carriage of bicycles - nay, designing for bicycles on MetroRail - would correspond better with the transformational customer-focus lauded by the Metro Authority.

BicycleNSW urges that the carriage of bicycles *on* the proposed West Metro line needs to be considered concurrently with the Environmental Assessment of the CBD Metro Rail that closes on 12 October.

### **Topic 3 - The *expansion* of public transport services and infrastructure, as well as *cycle [commuting] infrastructure*, over a 30-year planning horizon, taking into account existing transport accessibility problems and integration with future land use changes**

BicycleNSW supports the base of centres and the transport corridors, and wishes to see full integration with the Regional, sub-regional and local cycling networks.

Our current concern is that a NSW Bike Plan has been drafted based on community input but it has no opportunity has been given to BicycleNSW to review it as a draft. Further, since it has been developed well prior to the NSW government's transport planning process we have concerns about funding of cycling infrastructure that has long been impoverished in NSW. It is well known that only

half of the applications by Sydney local Councils to implement local bike plans - we have been advised that at the current rate of funding it would take 80 years to complete the bike plan in Lane Cove!

BicycleNSW priorities on cycling infrastructure - cheap compared to road building - is as follows

1 Works to build the Sydney Metropolitan Strategic Cycling Network

2 Works to link and access places:

(A) link centres, including:

- Parramatta to Burwood, thence link through to Inner Sydney
- Sutherland to Hurstville, thence link through to Inner Sydney
- Hornsby to Chatswood, thence link through to Inner Sydney
- The Inner Sydney Regional Bike Plan, comprising 14 local government areas.

(B) access centres, with priority to those centres with completed cycling-catchment studies, that is:

- Penrith
- Hurstville
- Bondi Junction
- Hornsby
- Brookvale-Dee Why.

(C) access tertiary education facilities and hospital campuses many of which are located off-centre, for example:

- the health sciences campus (University of Sydney) at Lidcombe to the Bankstown campus (UWS) at Panania, a route linking campuses to stations
- the Nirimba educational precinct at Quakers Hill, a route to Blacktown and Quakers Hill stations. This precinct enables the pathways program for students to complete secondary school, attend TAFE or a college of the University of Western Sydney.

3 Bicycle infrastructure in transport corridors, such as rail trails for local recreational and tourism.

4 BicycleNSW seeks the Inquiry's support for the submission by the Council of Capital City Lord Mayors to Infrastructure Australia for investment in cycleways. The proposal has an estimated high rate of return because the proposed cycleways focus on (a) missing links in current infrastructure (leveraging existing investment) and (b) densely populated areas of cities where trips are shorter than for outer areas.

5 Much work could be done affecting jobs and materials, sooner rather than later, and be funded as part of GREEN JOBS.

## **Topic 4 - The most appropriate *governance arrangements* to guarantee the plan's longevity to remove the negative impact of single-term party politics and to optimise investments**

Development of transport planning in Sydney, as it has elsewhere, needs to become more cycle-savvy and bicycle-friendly.

Cycling planning and infrastructure works in the Sydney Metropolitan Area is compromised by the institutional patchwork of local bicycle plans.

Cycling (and walking) were seriously overlooked in the Metropolitan Strategy's Centre Plans and Sub-Regional Plans. These failed to follow their own guidelines! And the test for inter-generational equity! Fortunately, the Metro Strategy (2005) is being reviewed and we urge greater attention to the plans for what happens on the ground at the local level of centres and sub-regions.

### **Critique of draft City Centre planning: towards improvements**

The draft city centre plan for Liverpool was one of the earlier draft plans to be released.

In support of plans for cities/centres, BicycleNSW members travelled to and around Liverpool as part of their review of the inclusion of cycling into the suite of related planning instruments:

- Local Environment Plan
- Development Control Plan
- Draft Civic Improvement Plan
- S94 Development Contributions Plan.

Our members also considered the relevance of cycling to overcoming transport disadvantage around Liverpool.

A report for Bicycle NSW (2007), discussed with the NSW Department of Planning made conclusions applicable to each City Plan (and sub-regional plan). The conclusions encompass:

- Affirmative action [for cycling] being needed and justified on many grounds
- Prepare a bicycle network plan
- Prepare a bicycle infrastructure plan
- Provide for appropriate bicycle parking and destination facilities
- Require the preparation of transport management and accessibility plans, and transport access guides for larger developments.

We consider these conclusions of continuing relevance.

To achieve desired ends, plans like guidelines require implementation and **accountability mechanisms** towards more sustainable transport for processes such as the Metro Strategy and local government asset management planning.

From experience, its evident we need a mechanism such as Fair Work or Affirmative Action, for each and every sub-region to trouble-shoot for sustainable transport.

## **Request**

The Senate Committee can see merit in metropolitan-wide transport authorities - and so can we. It'd be helpful if the Inquiry could address this issue in its Preliminary Report as an issue for comment.

Bicycle NSW believes that, as well investing in physical infrastructure, funding needs to be provided for educating transport and traffic staff and their consultants in urban sustainable mobility at different levels of government.

## **Topic 5 - Key environmental sustainability issues**

Sustainability - as a truncation Ecologically Sustainable Development - deliberately seeks to consider together the ecology, including human health, social and economic aspects. Considering the extraordinary benefits of cycling for society, the environment and affordability, it seems short-sighted for cycling infrastructure in Sydney metropolitan area to be under-developed.

As a human-powered form of transport, cycling enables a wide range of people to get around urban areas, in combination with public transport, with least damage to the environment. The low weight does not damage the road pavement. The relatively small size means that they are efficient users of road space for mobility and/or parking. They do not block sight lines for pedestrians. With no use of fossil fuel burning, there are no fugitive emissions when stationary nor noise or air pollutant emissions when mobile. There are no spills of oil/petrol on the road or on the oceans on account of cycling transport.

Even electric assisted pedal cycles are highly efficient and generally use some human power. They have similar environmental characteristics to pedal cycles, although extend their use to people with mobility difficulties.

In the same time, easy cycling can cover 4 -5 times the walking distance and up to 20 x the geographic catchment.

Some practical implications for transport planning are:

- high priority programs should be developed with centres and 'activity centres' (e.g. schools, higher education, sports, workplaces, shops) to undertake fine-grained repairs to enable walking and safe cycling
- public transport service providers and infrastructure planners should adopt more bicycle-friendly policies and practices and budgets

Funding is needed to undertake minor repairs to broken and outmoded infrastructure, for example installing pram ramps on walking routes and cycling routes to rail stations and interchanges (i.e. within the station/interchange catchment) and improving road crossings.

In some Council areas, bicycle lanes on designated urban cycle routes have been erased by wear and tear or road repairs or re-sheeting. The road surfaces often need to be repainted. The picture is patchy owing to the patchwork of responsibilities.

## **Topic 6 - Key social and economic issues**

Cycling is an affordable and healthy way for people to travel. Wherever cycling substitutes for car trips it assists in reducing air pollution. Since motor-vehicle related air pollution is concentrated in south west Sydney, private car travel has profound adverse public health impacts on people.

The health benefits of more and more frequent physical activity can be gained by active travel, such as cycling to work or to the railway station. The costs of not doing so are well documented (e.g. Access Economics DATE).

BicycleNSW considers that a major challenge now is for the State Government to ensure that account is taken of the many benefits of cycling by including:

### **Towards sustainable transport: social change and encouraging local transformations**

Cycling also has an affinity with car sharing (distinct from car pooling). Both cycling and car sharing are forms of transport to supplement the less personally responsive public transport services and fill the mobility gap neatly. For households and businesses situated in areas of adequate accessibility by public transport, it becomes feasible to reduce reliance on car travel and ultimately to dispense with car ownership as thousands of households have now done in Inner Sydney.

It is a mistake to dismiss the potential of cycling and car sharing on account of current levels being low in some localities/districts of the metropolitan area. Such an approach would be to cement the past into the future - a most undesirable result! Instead, asking what would need to happen to enable people to increase the uptake of these sustainable, more active ways as part of their way of getting around would be a more innovative approach by policymakers and planners for better mobility outcomes in Sydney.

Solving urban mobility problems requires both top-down network planning and bottom-up local improvements to enable people to get around and to trip generators by seamless travel across modes, more sustainably.

## **Topic 7 - Proposals for short term and long term funding**

### **Transport Corridors, linking Centres, and “Strategic Cycle Network” and local bicycle networks**

One of the driving forces on Sydney’s transport system over the next 30 years are likely to include the location of work, education and recreation. Therefore, BicycleNSW sees advantages of an effective centres policy with the development of better, preferably rail-based, public transport links between centres.

In principle, attention to create a “double cobweb” onto of a basic spoke-and-hub rail network is supported. Further, many of the 26 transport corridors for linking sub-regional centres are proposed as modified or new infrastructure,

predominantly for heavy rail, light rail, buses and ferries (iii) rather than private cars.

BicycleNSW urges the Inquiry to consider the relationships between Centres, transport corridors and the proposed Cycling Network for Sydney.

### **Short term**

We suggest better understanding as to why cycling seems to be dropped off programs and grants, e.g. commuter car parks, DECCW grants to schools for water and energy conservation (bike racks?), and councils support household energy conservation and water conservation but not cost-saving measures such as car sharing (distinct from car pooling) and cycling proficiency training.

In the short-term, BicycleNSW recommends installing bicycle parking at railway stations, in ways that are user-friendly.

### **Topic 8 - The cost-effectiveness of solutions, taking into account short term financial costs and benefits, and longer term environmental, congestion and other external costs and land use and accessibility benefits**

BicycleNSW notes that cycling uses road space efficiently, requires far less parking space, and has far lower external costs than motorized transport. In fact, it has positive benefits for health which are well documented.

Cycling could become one of the solutions to motor traffic congestion.

### **Wrapping up – key actions to enable people to cycle more often**

Transport services are for people!

**Quick Win** - installation of bicycle parking at key transport hubs and in urban centres, symbolizes providing a visible symbol of commitment to encouraging bicycle use

1. **Mainstream provision for bicycle riding and adequate infrastructure into the transport system** - integrate into such things infrastructure and land use planning, congestion management, funding, coordination, communications and ongoing maintenance.
2. **Reducing Traffic Speeds in the Centres** - making it safer and more attractive to ride
3. **Build Bicycle Infrastructure** - safe separated bicycle paths are the key to getting more people riding. Target construction to where most transport system benefits to be gained - eg @ 8 km radius of railway stations to significantly increase catchment, provide routes to major trip generators such as schools and tertiary institutions, complete “missing links” in current network. Making use of available land corridors.
4. **Governance** - facilitating Bicycle NSW collaboration in the final drafting of the NSW Bike Plan, and develop ways to better align local, state and federal

government resources and projects to becoming bicycle-friendly; ensure accountability mechanisms for application of appropriate guidelines by decision-makers.

5. **Funding** - developing funding support that recognises the wider contribution to the community that comes from bicycle riding and developing delivery and accountability mechanisms that recognise the range of stakeholders involved.



## APPENDICES

### Appendix 1 - BicycleNSW's Strategy 2008- 2011

**bicycle NSW**  
**bicycle NSW** Strategy 2008 – 2011

Bicycle New South Wales Inc.  
 GPO Box 272, Sydney 2001  
 t 02 9218 5400  
 f 02 9281 6099  
 www.bicyclensw.org.au  
 Established 1972. ABN 2011100162

**Our Purpose:** More people cycling more often  
**Key Measures:** 100,000 members by 2020  
 Rider count

**KEY STRATEGIES**

- Infrastructure and safety** → Influence policy decisions at all levels to address our vision. Global, Federal, State, Local. Operate as a network facilitator for our stakeholders. Co-ordinate the analysis of cyclist count data.
- Supporting stakeholders in cycling** → Communicate role of Bicycle NSW, clearly & document our relationships. Build, maintain and support relationships with stakeholders. Implement programs and initiatives in partnership with key stakeholders to get more people cycling more often.
- "Mainstreaming" of cycling** → Promote cycling as a social "norm" through effective media strategies. Focus on delivering behavioural change programs in partnership with business, government and other stakeholders. Cater to a broad cycling "audience" - eg Ride to work, Ride to school.
- Brand and Membership** → Define & promote membership product offering. Grow membership through targeted programs. Develop effective brand strategy. Protect our brand integrity - clear brand management guidelines.
- Rides** → Deliver riding experiences through a range of routes & partnerships. Run values acceptable safety and recreational guidelines. Cater to differing markets, skill levels and allow for progression. Leverage sponsorships to maximise brand exposure and financial support.
- Sustainable organisation** → Leverage partnerships to allow state economies and other mutual benefit - don't "re-invent the wheel". Establish clear rules and frameworks for partnerships. Clarify roles, tasks & financials, setting clear objectives and managing performance. Incorporate Risk Management framework.

**KEY RESULT AREAS**

**Key Performance Indicators**

- Effectiveness** → Rider count, Membership
- Relevance** → Website traffic, Program participation
- Product** → Sponsorship, Numbers on rides
- Financial performance** → Revenue from rides, Cost management, Event/product ROI, Revenue targets met

**The way we work** → Collaborative, Inclusive, Facilitative, Constructive, Outcome oriented

**Safe places to ride** → Getting there together, Bicycle NSW & partners

**Reasons to ride**

**Partners:**

## ***Appendix 2 – BicycleNSW submission to Senate Committee inquiry into public transport investment***

Senate Rural and Regional Affairs and Transport Committee

Submission to the Senate Inquiry  
The investment of Commonwealth and State funds in public passenger  
transport infrastructure and services

February 2009

### **About BicycleNSW**

Bicycle NSW is a member based association established in 1976. The Federal Government accepted the Bicycle NSW Environmental Trust onto the Register of Environmental Organisations in 2004.

Bicycle NSW has over 30 affiliated local community-based Bicycle User Groups (BUGs) around NSW. As well as working closely with their respective local councils, BUGs run over 100 community based rides throughout NSW every month.

We work collaboratively with many areas of government, industry and the community (including some 500 committed volunteers) to deliver broad-based community participation cycling events and programmes.

The organisation provides a range of insurance products and cycling-related services to its members. Bicycle NSW publishes a national bi monthly magazine *Australian Cyclist*, electronic newsletters and its website: [www.bicyclensw.org.au/content/home](http://www.bicyclensw.org.au/content/home)

### **Executive Summary**

BicycleNSW welcomes this Inquiry and in particular its recognition that walking and cycling are integral to the use of public transport.

BicycleNSW also welcomes the Inquiry's reference to the reports on *Sustainable Cities* and *Australia's future oil supply and alternative transport fuels*. For the previous inquiry into *Sustainable Cities*, BicycleNSW gave evidence and presented a written submission of which extracts are at Appendix 1.

BicycleNSW recognises that many opportunities now exist to give effect to the recommendations and insights on what would need to change to achieve more

sustainable transport. We have structured this submission around the terms of reference.

BicycleNSW considers that a major challenge now is for the Commonwealth to ensure that account is taken of the many benefits of cycling and, more broadly, active travel for health, a sustainable transport and access system in our towns and cities. BicycleNSW encourages the Commonwealth government to act on this knowledge; some examples of knowledge-based actions would be:

- the Commonwealth's direct funding for cycling infrastructure and services;
- its method of assessing transport infrastructure proposals to include their relative value for health, environment and transport ; and
- its policies and funding of active travel for preventive health, household assistance for carbon reduction, housing projects, tourism and social inclusion.

BicycleNSW requests the Senate Committee to consider ways to give effect to some powerful observations and recommendations of the Sustainable Cities report, particularly given the new funding opportunities for infrastructure. For the integration of walking and cycling, it is an opportune time given the evolving institutional arrangements of the Commonwealth and its collaborations with other levels of government.

Specifically, on investment in cycleways, BicycleNSW calls upon the Senate Committee to express its support for the submission by the Council of Capital City Lord Mayors to Infrastructure Australia for investment in cycleways. The proposal has an estimated high rate of return because the proposed cycleways focus on (a) missing links in current infrastructure (leveraging existing investment) and (b) densely populated areas of cities where trips are shorter than for outer areas. Each of these works is relatively small and enable expenditure to find its way into the real economy on jobs and materials, sooner rather than later.

In this brief submission, BicycleNSW limits itself to focus on the strategic challenges facing governments during a period of evolving institutional arrangements in the transport sector and funding opportunities, such as COAG reforms and the review of the National Transport Commission. BicycleNSW is willing to partner with governments and industry to promote effective public engagement and discussion of the emerging national transport policy and to gain the benefits that increased levels of cycling can bring to communities.

BicycleNSW would be happy to provide examples or answer queries to assist the Senate Committee in its Inquiry.

## **Summary of Recommendations**

BicycleNSW recommends the Senate committee consider:

1. Commonwealth funding of urban public transport where it supports Commonwealth policy goals (eg. affordable housing, health, emissions), including funds to upgrade walking and cycling facilities in the catchments of stations and interchanges;

2. what arrangements could enable Commonwealth funds to be managed by the Commonwealth, not merely allocated to the States and Local government, to ensure accountability in delivery of services as intended and on time;
3. the inclusion of cycling (and car sharing) in the national transport policy (proposed by the ATC), legislation, funding and institutional arrangements and their reforms for example through the Council of Australian Governments (COAG) Reform Council and the current review of the National Transport Commission;
4. how the Commonwealth could influence local government asset management planning to ensure that funds and works are allocated to catch-up the past neglect of pedestrian and cycling facilities, relative to facilities for motor vehicles, and for priority to be given to walking and cycling catchments of stations/interchanges;
5. how to reduce the disparity in investment between roads and public transport, BicycleNSW recommends that the Senate Committee adopt and advance recommendations from the Sustainable Cities report as follows:

*Recommendation 6 (part two) - the Australian Government significantly boost its funding commitment for public transport systems, particularly light and heavy rail, in the major cities.*

*Recommendation 7 - The committee recommends that the provision of Australian Government transport infrastructure funds include provision of funding specifically for sustainable public transport infrastructure for suburbs and developments on the outer fringes of our cities. [BicycleNSW notes that transit-oriented-development be supported in metropolitan centres and in towns];*

6. as a form of investment, professional education and continuing education - sustainable urban mobility from the user's perspective for improved inclusion of walking and cycling for traffic professionals, and short courses be available for other groups.
7. the impact of the proposed Carbon Pollution Reduction Scheme on the transport sector to ensure that it facilitates the use of public transport, walking and cycling (and car sharing) rather than car driving; and the opportunity in a range of other complementary measures to incorporate sustainable transport (cycling proficiency training; car sharing etc) into the proposed household assistance measures;
8. Commonwealth funding being allocated to improve integration -both between development and transport and between modes - by strengthening the capacity of agencies and their staff to deliver Transit-oriented-Development, to facilitate mobility across modes and to institute workplace travel plans/programs;
9. Commonwealth funding being allocated for a program to expedite practical solutions to cycling-inclusive public transport, e.g. bike parking and storage at stations/interchanges, carriage of bicycles on trains and on buses;

10. a catch-up measure in which Commonwealth-State road authorities install signage to rail stations and for bicycle routes within a defined timetable, towards best international practice;
11. programs to replace the barriers to riding to school (e.g. school policies prohibiting or discouraging students from riding to school) with positive program to secure safe cycling routes, bicycle storage facilities and cycling proficiency training for students and teachers of sport/physical activity;
12. how the Commonwealth can fund and support the evolution of travel demand management strategies, from the TravelSmart program to mobility management programs focused on working with organisations in local places to incorporate physical and operational changes (including fine-grained details)and removing impediments to sustainable urban mobility; and
13. a Commonwealth program to support the uptake of car sharing (distinct from car pooling) as an effective, affordable means of reducing car use and traffic congestion.

## **Relevance of the Sustainable Cities report and the Oil report**

The *Sustainable Cities* report described sustainable transport's relation to urban sustainability in quoting the Planning Institute of Australia:

*A sustainable transport and access system will simultaneously address economic, social and environmental issues. It will pursue enhancement of a city's economic performance, its social equilibrium and justice and the state of the urban and natural environment.*

BicycleNSW considers that cycling can assist our towns and cities in making a transition to urban sustainability.

The *Oil Report* recommended:

*To reduce Australia's dependence on imported oil and oil use, energy policy needs to be consistent with environmental goals, particularly the need to do more to reduce fossil fuel carbon dioxide emissions. Recommendation 2*

Cycling as a human-powered form of transport removes the dependence on oil. It is a highly efficient way to travel and investment in better designed cities and active travel (walking, cycling and in combination with public transport) needs policy and funding leadership from the Commonwealth.

BicycleNSW is concerned that the impact of the proposed Carbon Pollution Reduction Scheme on the transport sector may discourage the use of public transport relative to car travel. We recommend the Senate Committee give thought to ensure that the pricing signals given to the community do not inadvertently give incentives for driving cars.

## **A - Audit of the state of public passenger transport in Australia**

BicycleNSW makes the following points:

- BicycleNSW is unaware of such an audit.
- Conventional transport data collections - NSW Household Travel Survey and the ABS Census on journey-to-work - are not suited to planning for sustainable transport because they have presumptions about car use rather than accessibility
- modernisation of audits/data collections on urban sustainable mobility, including walking and cycling, of course, would be desirable.
- 

### **Levels of cycling and the state of cycling infrastructure and services**

Levels of cycling by the community are an indicator of the condition of infrastructure and services that vary greatly by locality within NSW.

In the City and surrounding inner local government areas the levels of cycling have increased quite dramatically between the last two ABS Census counts of journey to work by bicycle, from 1996-2000 and 2001-2006 (New & Rissel 2008).

In areas outside Sydney, there are some disappointing reports from Armidale, for example, Census data on travel to work in Armidale:

- Cycling decreased from 2.4% in 1996 to 1.9% in 2001 to 1.4% in 2006.  
 Bus travel decreased from 1.6% to 1.2% to 1.0%  
 Car as passenger from 12.2% to 11.2% to 9.0%  
 Walking has fared better, going from 10.4% to 8.7% to 9.3%  
 with the big increase being car as driver, from 70.4% to 72.0% to 74.6%

These data have led the local bicycle group to redouble their efforts in collaborating with the Council that has now formed an Armidale Bicycle Strategy Committee. The local bicycle group has particular concerns about the risk of injury from the design of roundabouts. The local group has also suggested:

*What we really need is for all bike proposals to go to a central bicycle unit where they will be read and understood by people who ride bikes and are familiar with injury statistics relating to cycling. There isn't a lot of money available to encourage and provide for cyclists - so for heaven's sake let's spend it wisely, instead of on glorified footpaths that 80% of cyclists don't use, preferring instead the adjacent road, which statistics show is actually safer. [and a more direct route].*

The suggestion for a central bicycle unit, possibly as part of a governance arrangement for urban sustainable mobility, could also respond to the frequent calls from local groups distressed by inadvertent or careless works that have a retrograde effect. Groups also complain to BicycleNSW about the lack of bicycle planning or implementation of plans by local councils, protracted 10-year time frames for only moderate works, and closures or major disruptions to cycleway that have been hard won, e.g. the cutting of the Prospect Dam cycleway.

BicycleNSW is confident that given strategic planning and better institutional arrangements, building new routes will achieve their purpose of attracting more people to cycle for many reasons, and just to have fun!

### **Integration of bicycle lockers/parking at rail stations and interchanges**

BicycleNSW reiterates its argument, made in the *Sustainable Cities* report, for bicycle lockers at rail stations and interchanges to be installed:

*Bicycle NSW is also in favour of an integrated transport system that would include bicycle lockers at bus and train stations and making bicycles free of charge on trains. This would aid in 'reducing the amount of car dependence' and would optimise 'the access and liveability of urban communities'. {para 5.95}*

BicycleNSW recommends that this proposal be considered and funded by the Commonwealth and could be part of a green jobs program.

## **B - current and historical levels of public investment in private vehicle and public passenger transport services and infrastructure**

### **Disparity in funding and investment in skills**

The Sustainable Cities Report referred to the disparity in funding that contributes to the perpetuation of a car-dominated society. BicycleNSW concurs with the *Sustainable Cities* report assessment as follows:

- 5.43 *The committee believes that the way in which transport infrastructure is currently budgeted for undermines the type of transport interconnectedness that is necessary for sustainability. The PIA draws attention to the fact that there are still separate budgets for roads, public transport, airports and pedestrian and cycling infrastructure, leading to a ‘rather narrow vision’.*
- 5.44 *The PIA suggests that transport infrastructure funding should actually aim to reduce private transport needs. The way infrastructure is conceived of can add to the sustainability of the transport system:  
An infrastructure approach more in tune with sustainability goals would look into transport reduction potential rather [than] trying to further expand mobility. For instance, this approach would examine how the excess of traffic demand that leads to congestion could be shifted to other modes of transport, to closer destinations and even prevented through alternative, non-transport inducing activities such as working at home or shopping through the internet. This highlights the importance of a close integration of infrastructure (supply) management and travel demand management approaches.*
- 5.45 *The Australasian Railway Association puts the case for increased use of rail as the safest form of land transport and also the lowest contributor to greenhouse gas emissions, commenting that ‘the sustainability advantages of rail are often not taken into account in infrastructure investment decisions’.*
- 5.46 *The PIA also highlighted the lack of funding for rail infrastructure, pointing out that there is no designated Commonwealth funding programme for urban railway infrastructure similar to those for freeway construction. This is ‘severely out of tune with urban transport funding regimes in practically every other OECD country’ and explains why ‘Australian urban rail systems have been struggling to keep up with the pace of metropolitan growth’.<sup>29</sup> This means outer suburbs are highly car-dependant. The Institute recommends a ‘significantly boosted federal commitment to upgrading and expanding fixed public transport systems’.<sup>30</sup>*
- 5.47 *Decisions on infrastructure that are made now will have an impact on future sustainability. The committee reiterates that it is important for decision-makers to understand the interconnectedness of the urban environment settlement and transport environment.*

To reduce the disparity in investment, BicycleNSW recommends that the Senate Committee adopt and advance recommendations from the Sustainable Cities report as follows:

*Recommendation 6 (part two) - the Australian Government significantly boost its funding commitment for public transport systems, particularly light and heavy rail, in the major cities.*

*Recommendation 7 - The committee recommends that the provision of Australian Government transport infrastructure funds include provision of funding specifically for sustainable public transport infrastructure for suburbs and developments on the outer fringes of our cities.*

## **C – An assessment of the benefits of public passenger transport, including integration with bicycle and pedestrian initiatives**

Coverage of the economic, social and ecological benefits of public transport connected by walking and cycling networks has been well made in an extensive literature. BicycleNSW would be happy to respond to an aspect that may be of interest to the Senate Committee.

Under this heading we consider thinking spatially about public transport infrastructure and refer to the concepts of catchments, transit-oriented-developments, and the benefits of integration.

### **Catchments and Transit-oriented-Development (TOD)**

For people not familiar with cycling, it is useful to understand the efficiency of cycling. The mechanical advantage of pedalling allows a person to go almost four times the speed and thus four times further than a person who walks. This characteristic is illustrated in the walking and cycling catchment map for Wetherill Park College of TAFE below:



This map was used in promotion of the College, a major trip generator, to secondary school students in the region and on enrolment days, together with a transport access guide. The College had plans for its students to build a secure bicycle cage for bicycle storage. At that time, no all-weather footpath had been constructed to the nearby Wetherill stop on the Parramatta-Liverpool T-way. The concept of walking and cycling catchments of railway stations and interchanges in the design of cities is well known. In fact, the NSW Department of Planning, for example, puts the principles for practice quite succinctly:

*There are a number of city-scale design principles that can assist the creation of walkable and cycleable cities. All emphasise urban renewal and the creation of compact mixed use accessible centres around public transport stops. Walking and cycling catchment mapping, accessibility zoning and integration of regional walking and cycling networks can assist this process*

....*Railway stations and major bus stops provide a nucleus for creation of accessible centres*

[http://www.planning.nsw.gov.au/plansforaction/pdf/guide\\_pages\\_15-22.pdf](http://www.planning.nsw.gov.au/plansforaction/pdf/guide_pages_15-22.pdf)

Thus a benefit of public transport and its integration with walking and cycling is to facilitate access by people who may undertake their journey by a healthy, sustainable combination of modes.

### **Integration**

BicycleNSW supports better integration - the several meanings were closely examined by the UK Department of the Environment, Transport and Regions to ensure that development and transport are considered together as well as the ease of transferability between and within modes. These factors relate to the physical infrastructure, services including the social and economic infrastructure of ticket structures and pricing. The concept of integration needs to be understood from the perspective of people travelling from home to wherever they are travelling, and possibly making a number of linked trips. Claims made by some operators that their project is about integration or offers seamless travel do not hold up unless adequate attention has been given to access to the station/interchange by walking and cycling, or car-sharing vehicle, taxi or even private car.

The UK *Transport 2010: the 10 year plan* explained how it was putting its 'new integrated approach into practice by applying it to a series of transport problems around the country.' Some of the most severe problems for the transport sector involve widespread motor traffic congestion in a particular area that requires a strategic, area-wide solution. To find solutions, the British has set up 'multi-modal studies'

*These reject the old approach of focusing on one-dimensional solutions and instead look at the contribution that all modes of transport and traffic management might make - including road, rail, bus and light rail, as well as walking and cycling.*

Such studies are informed by regional and integrated transport objectives, through an open process with the opportunity to build consensus and consider ways to minimise environmental impact. From a sustainability perspective, this should mean promoting or giving preference to more sustainable transport solutions rather than minimising environmental pollution and degradation of a transport project.

### **Benefits of Integration**

A transport *benefit* of integrating safe cycling and walking into the catchments of rail stations/interchanges is to facilitate the journeys made by existing public transport users and to convert the latent demand into actual use.

Good transit-oriented-development also provides the conditions for effective car-sharing (distinct from car-pooling) services to be offered and enable some households to become car-free or at least own only one car. As the number of single person households increases, the benefits of car sharing services are to improve the affordability of living without a car and using public transport, walking and cycling.

### **Social inclusion**

Other economic and social benefits of integration are social inclusion.

BicycleNSW is engaged in promoting cycling to under-represented groups in cycling; for example its *Gear Up Girl* program that is devoted to encouraging women to get on their bikes to promote the importance of maintaining a fit and healthy lifestyle. <http://www.gearupgirl.com.au/>

BicycleNSW supports the Ride2School program and a report from the Deputy Principal at Kurnell Public School indicates the generational changes underway:

*The number of children riding to school has really sky rocketed since we started. The program virtually runs itself. The program is fabulous, the community loves it and it has given our school a high profile within the area. We have even been in the local paper a few times.*

A regional initiative in Gosford, known as *Rebicycle* - a program teaching young people new skills in rebuilding, maintaining bicycles and road safety or restoring and using bicycles - is another avenue for social inclusion. The program recycles bicycles donated to charities for recycling.

The program is conducted through a nine-week TAFE accredited course in bike building and maintenance. Young people develop technical skills, skills in enterprise development and communications, and self-confidence in learning to get around by bicycle and connecting with the public transport system. Such accessibility is also critical for many job seekers.

Improvements to the Gosford cycleways also facilitate regional tourism.

### **Tourism**

Tourism, both for domestic and international visitors, is an economic benefit of an accessible public transport system. A recent initiative by the Australian Rural Education Centre at Mudgee is a new event on the Easter calendar: a family-friendly Bike Muster. [www.bikemuster.com.au](http://www.bikemuster.com.au) Public transport connections between Lithgow and Mudgee are difficult and private vehicles may be need to transport people accompanying their bicycles from Lithgow station.

BicycleNSW welcomes the Tasmanian Premier's announcement, significantly under an innovations package, for:

*A modern mix of transport options will ensure that Tasmania moves into a new age of low-emission and intelligent transport that includes a mixture of road, rail, cycleways and walkways as well as the conversion of the remaining Metro fleet to bio-diesel in the next 12 months. (Tasmanian Government Action Plan 2009)*

Tasmania is a popular cycling tourism destination and being able to use more cycleways and carrying bicycles on public transport will be welcomed by visitors from NSW.

### **Active travel: benefits to health and transport**

The *Sustainable Cities* report picked up the value of 'active travel' to preventing growing incidence of chronic diseases, in saying:

*... increasing evidence of urban living contributing to increasing incidence of a wide range of illnesses. There is no doubt that greater physical activity would contribute to lowering these incidences. Mr Neil Tonkin uses the term 'active transport', referring to walking, cycling and public transport, 'as forms of transport that involve human physical activity with substantial benefits to health, safety and wellbeing'. (para 5.85)*

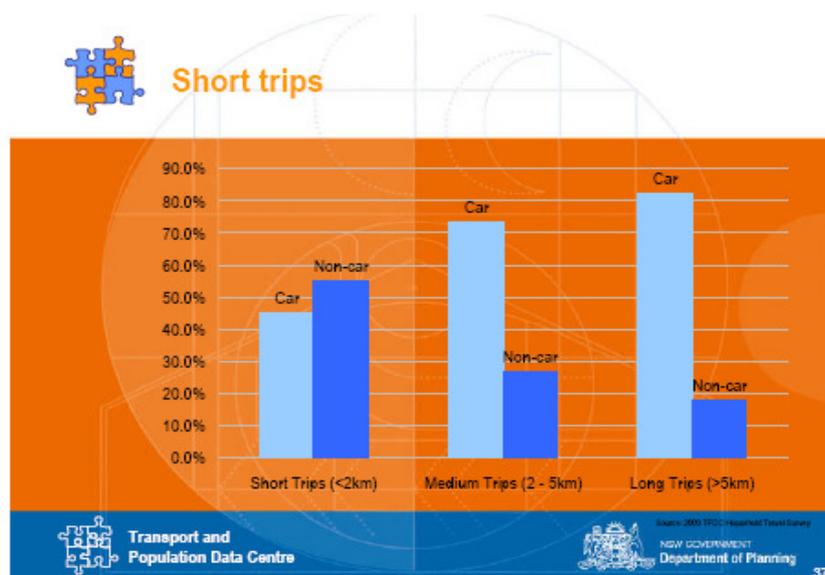
Since then, estimates of the costs of chronic disease have been documented and are an issue for the health sector and its reform (Access Economics 2008). The transport sector can assist by increasing its funding for access by walking, cycling and public transport and recognising the high costs of sedentary driving.

At the NSW government's CBD Mobility Forum, the Minister for Roads described investment in cycling as a no-brainer in prevention, as one of the responses to the rising health care costs.

The benefits of active travel accrue to the health sector and directly to the transport sector; this point was also expressed in the *Sustainable Cities* Report, coincidentally in a quotation from BicycleNSW:

*5.93 Instituting active transport regimes would have a vast beneficial impact on Australia's environment, health and transport congestion, particularly in the main cities. Mr Neil Tonkin told the committee that this would be 'especially achievable in Sydney' where '55 per cent of all car journeys are of less than five kilometres and 33 per cent are of less than three kilometres'.*

The diagram below illustrates the high prevalence of short car trips in NSW:



BicycleNSW considers that a major challenge now is for the Commonwealth to ensure that account is taken of the many benefits of cycling and more generally active travel for health, sustainable transport and access system in our towns and cities - in its infrastructure assessment, and policies for preventive health.

## **D - Measures by which the Commonwealth Government could facilitate improvement in public passenger transport services and infrastructure**

Improvements in public transport infrastructure and services face similar obstacles to the related objective of these improvements being cycling-inclusive and walking-inclusive.

At a recent Sydney workshop on sustainable mobility, visiting traffic engineer Jeroen Buis (2008) gave a presentation at which he contrasted the old paradigm for urban transport planning in which cities are made for cars to the newer cycling-inclusive paradigm. Buis also examined the price we pay for retaining the old paradigm although we continue to struggle with the same problems of traffic congestion, car parking and increased car use.

Sustainable transport is a good illustration of socio-technical system in which the fine-grained physical details matter for human-scale and services (e.g. see the experience of Bike Bus Leaders (Mason & Campbell 2009) and Marston & Watts (2003) on relevance to 'evidence-based' policy making) . The nature of this system has implications for a high value of involvement in local engagement on priorities for infrastructure and servicing and a multi-disciplinary workforce.

### **Federal funding**

BicycleNSW in principle supports *Sustainable Cities* on changing the scope of roads funding by the Commonwealth, as expressed in Recommendation 5:

*The committee recommends that the Department of Transport and Regional Services, in consultation with the Department of the Environment and Heritage, investigate options to extend the Roads to Recovery programme to include other modes of transport as a step towards including sustainability in the funding criteria.*

Evolution of Commonwealth agencies is likely to mean consultations with further bodies (e.g. COAG, ATC, Major Cities Unit). The key point is for Commonwealth transport funding to deal with the transport system as a whole, and come to exert more influence for sustainable urban mobility and deter the entrenching car dependency of regions.

In the early years of the Roads to Recovery Program a few councils in NSW used their allocations for specific bicycle infrastructure projects, but they were the exception, e.g. Corowa, West Wyalong, Fairfield, South Sydney, but this has subsequently been actively discouraged by Commonwealth officers. In its 2003 submission to *Sustainable Cities*, BicycleNSW had argued to direct Federal funding to specifically target cycling and walking projects - a Paths to Recovery program! Earlier we have argued for Federal strategic funding of retrofitting and modernising public transport facilities to improve access for people, bicycle facilities, such as safe storage and hire, and on-board services for passengers carrying bicycles.

### **Institutional arrangements**

The *Sustainable Cities* Report describes the situation for Commonwealth involvement in cycling policy and research:

*5.95 The committee was told of a need to reinvigorate the National Bicycle Strategy with Australian Government funding,<sup>64</sup> and the committee notes that the Australian National Cycling Strategy 2005-2010 is currently being prepared by the Australian Bicycle Council.<sup>65</sup>*

At 2003 to the present, the Australian Bicycle Council has produced and works on a policy and research strategy within the auspice and secretariat of AUSTRROADS. The ABC reports annually on its strategy to the Australian Transport Council (ATC)(a

council of Ministers), through Austroads and the Standing Committee on Transport (SCOT) (a committee of CEOs).

However, BicycleNSW believes that in 1993 the Australian Bicycle Council did arrange infrastructure funding of cycleways and earlier funds were channelled through the Bicentennial Fund. So it would help to explore some other options.

BicycleNSW considers it timely for the Commonwealth to review the governance of planning and funding safe and integrated cycleways; by timing opportunity, we have in mind the evolving institutional arrangements for infrastructure funding, the major cities initiative, the developed national transport policy issued by the ATC, and the current broad review of the NTC.

## **E – Mechanisms (law, institutional arrangements etc) that discourage/encourage public transport**

### **Impediments**

Given the two reports, one on Sustainable Cities the other on oil, Bicycle NSW suggests that the Senate Committee enquire about the incorporation of environmental and health valuation in the decision-making processes of Infrastructure Australia under its legislation. Such a provision would be consistent with the application of ESD principles.

In 2006, the Australian Bicycle Council received a submission paper, *Regulatory, taxation and other fiscal impediments to increased cycling*. At this point we are unclear how the impediments raised are being addressed although enquiries are being made.

### **FBT concession**

The FBT concession has long been recognised as an actual and symbolic deterrent to reducing car use, particularly for the journey-to-work.

BicycleNSW shares the concerns about the extension of tax breaks to other modes of transport when the real issue is the removal of the tax subsidy to cars, fuel, parking and, use or over-use. It would only be under second-rate scenario - say the Henry Review recommends to retain the car subsidy, even with the regressive fuel element removed - that a justification exists to extend concessions to forms of sustainable transport as well as a cash-out provision.

For time economy, we concur with (and appreciate) the arguments prepared by BikeSydney set out below:

### **Extract on removing the FBT concession, from BikeSydney draft submission**

BikeSydney notes that the Recommendation 8 from *Sustainable Cities* is insufficient:

*The committee recommends that the Australian Government review the current FBT concessions for car use with a view to removing incentives for greater car use and extending incentives to other modes of transport.*

Our concern is that the meaning of incentives is ambiguous in this context; it may refer only to

the formula that increases the level of concession as distance travelled increases. This is not the only perverse aspect: the very entitlement runs counter to claims for sustainability and exerts a powerful influence in workplace culture and car use. It is a deterrent to workplace-based car-sharing and workplace-based Bicycle User Groups and undermines travel plans. In the context of the Henry review of taxation, BikeSydney recommends that the Senate Committee support:

- a thorough review and progressive removal of the FBT for cars, fuel and parking as a massive tax expenditure of over \$1 billion per annum that is out of step with practices internationally
- the removal of the FBT concession for cars and no extension of this concession to public transport or cycling but the redirection of funds to well-planned improvements in accessibility by walking and cycling and in combination with public transport.

Our view is that the scale of benefit to cars is so much greater than the mere extension of the concession to other modes that it would be far better to take a 'root and branch' reform approach.

This issue also shapes the culture and prestige about car travel relative to other forms that is expressed in workplaces in many ways – it is not merely an economic issue.

### **Encouragement through Travel Demand Management programs**

Briefly, in Australia behavioural TDM programs became identified with the strongly branded TravelSmart program that received exclusive funding through the former Australian Greenhouse Office.

With the high-level funding and institutional changes, it is opportune to consider other models too, such as social change models, e.g. Mobility Management, and to respond to the considerable barriers encountered in running TDM programs, whether for children travelling to school (Fry 2008) or for people travelling to universities and major hospitals (Black 2000).

Typically, an application of a social change model could include a workplace travel program that utilises activities of capacity-building, physical works and new services rather limited to shorter-term information and social marketing projects. Advocates for cycling are aware of the priority to provide safe cycling networks and connections to rail stations and interchanges. Supplementary materials and options for reform could be provided in light of the opportunities arising from the changing Commonwealth administration of community environment programs and the transport portfolio.

### **F – Best practice international examples of public passenger transport services and infrastructure**

In Australia the infrastructure to enable safe cycling in towns and cities to reach rail stations/interchanges/ferry wharves/airports needs considerable upgrading, as Australians would be prepared to cycle if conditions were safer and suitable. Many Australian are aware of, and have experienced, superior cycling conditions and facilities in many other countries. Reduction and control of motor traffic speed in towns and cities, for example, is one of the most straightforward measures to improve conditions for cycling.

There is plenty of knowledge of international examples of cycling-inclusive planning, design, construction and social programs and ideal towns. Many programs, however, operate under very different 'framework conditions' such as traffic speed that limit their suitability for transplanting into NSW towns and cities, under current conditions. Most importantly, programs need appropriate institutional basis rather than being an ephemeral, isolated promotional activity.

Cycling has a natural alliance with car sharing (distinct from car pooling) in urban areas well served by public transport and enables people to avoid car ownership and use (Bergmaier 2004), and hence traffic congestion. Since the commencement of commercial car sharing services in Australia, however, guidelines have been introduced that while not prohibitive fall far short of international good practice. Australian practices to support car-sharing could be develop and informed by international research and good practices to raise the uptake of car sharing in all well served areas of Australian towns and cities.

BicycleNSW has supported a number of local initiatives, for example the BikeBus project and the Cycling in the City program for riding to work. These are effective, documented programs worthy of adaptation by other towns and cities. They are enabling people to reduce car use and ride more, more often and use a combination of public transport and car-sharing services.

## References

Access Economics (2008), *The growing cost of obesity: three years on*, [prepared for Diabetes Australia], Access Economics, Canberra, August.  
[www.diabetesaustralia.com.au/PageFiles/7830/FULLREPORTGrowingCostOfObesity2008](http://www.diabetesaustralia.com.au/PageFiles/7830/FULLREPORTGrowingCostOfObesity2008)

Access Economics (2006), *The economic costs of obesity*, [prepared for Diabetes Australia], Access Economics, Canberra.

Austrroads (2006) *Urban design and place-making* in 'Minimising Pedestrian-Cyclist Conflict on Paths' Information Note No 3 January.

[http://www.austrroads.com.au/documents/03\\_Urban\\_Design.pdf](http://www.austrroads.com.au/documents/03_Urban_Design.pdf)

AGO *Car sharing* report and subsequent material on the EU research program, MOSES prepared for the Australian Greenhouse Office.

Bauman A, Bellew B, Vita P, Brown W, Owen N (2002), *Getting Australia active towards better practice for the promotion of physical activity* National Public Health Partnership, Melbourne, March 2002. ISBN 0-9580326-2-9

[www.nphp.gov.au/sigpah](http://www.nphp.gov.au/sigpah)

2004 Bergmaier R., Mason C., McKenzie M., Campbell S. and Hobson A. (2004), *Car Sharing: an overview*, Australian Government, Canberra. For the Australian Greenhouse Office.

<http://www.greenhouse.gov.au/tdm/publications/carsharing.html>

Buis J (2008) *A new Paradigm for Urban Transport Planning :Cycling- inclusive planning*, Metropolis Non-Motorized Transport training course, Sydney, Day 1 - 20 October 2008 I-ce, Interface for Cycling Expertise, [www.cycling.nl](http://www.cycling.nl).

Jensen S & others (2000), *Collection of Cycle Concepts*, [www.vd.dk](http://www.vd.dk)

Marston G. & Watts (2003), 'Tampering with the evidence: a critical appraisal of evidence-based policy-making' *The Drawing Board: An Australian Review of Public Affairs*, volume 3, number 3, march, 2003, 143-163. Published by School of Economics and Political Science, University of Sydney.

Mason C. & Campbell F. (2009), Bike Bus Promotion and Development Project :*Supplementary Report on Project Outcomes - Lessons Learned*, January, Grant funded - Low Emissions Technology and Abatement - Strategic Abatement Program, Commonwealth Department of Environment, Water, Heritage and the Arts.  
<http://www.bikebus.org.au/>



Mason & Kuiper G (2003), 'Pedalling forward: active transport in Sydney's Inner West', for State of Australian Cities Conference, University of Western Sydney.

Mason and Lake R (2001), *Transport access for job seeking: a pilot program*, North Parramatta: GROW Employment, Sydney's Area Consultative Committee. ISBN 0 646 40634 5.

Mason & Bargwanna S. (2001), 'Urban roads. A health asset', Paper prepared for Royal Australian Planning Institute (NSW) Conference, May 2001.

Mason C (2000) 'Transport and Health: en route to a healthier Australia?', *Medical Journal of Australia*, 6 March.

Mason and Lake R (2001), *Transport access for job seeking: a pilot program*, North Parramatta: GROW Employment, Sydney's Area Consultative Committee. ISBN 0 646 40634 5.

Black J Mason C. Stanley K (1999), Travel Demand Management: policy context and an application by University of New South Wales (USNW) as a large trip generator' , *Transport Engineering in Australia* Vol 5, No., 2, pp. 64-73.

Moser S C & Dilling L (eds), *Creating a climate for change. Communicating climate change and facilitating social change*, New York: Cambridge University Press. See especially Tribbia J. (2007) "Stuck in the slow lane of behaviour change? A not-so-superhuman perspective on getting out of our cars".

New C. & Rissel C., 2008 *Cycling to work in Sydney: analysis of journey to work Census data from 2001 and 2006*, Health Promotion Service Sydney South West Area Health Service, Sydney.

RTA Bicycle Design  
RTA-Dept Planning Guidelines on Walking and Cycling  
RTA TAG guide

Tasmanian Government Action Plan 2009  
[http://www.premier.tas.gov.au/hot\\_topics/government\\_action\\_plan\\_for\\_2009](http://www.premier.tas.gov.au/hot_topics/government_action_plan_for_2009)

UK Dept of Transport (2008) *Towards a sustainable transport system : supporting economic growth in a low carbon world*, London: The Stationery Office

NSW studies on children travelling to school:

L Wen, D Fry, C Rissel, H Dirkis, A Balafas and D Merom (2008) 'Factors Associated with Children Being Driven to School: implications for walk to School programs', *Health Education Research* 2008;23( 2) 325-334.

For outcomes:

L Wen, D Fry, C Rissel, D Merom H Dirkis and A Balafas Increasing active travel to school:are we on the right track? A cluster randomised controlled trial from Sydney Australia. *Preventive Medicine* 2008 doi:10.1016/j.ypped.2008.09.002

*For report*

Fry D. (2008) *Central Sydney Walk to School Research Program 2004-2007*. Health Promotion Service, Sydney South West Area Health Service, Camperdown.

## **Appendix 1 – Terms of Reference**

### **Inquiry into the investment of Commonwealth and State funds in public passenger transport infrastructure and services**

[http://www.aph.gov.au/senate/committee/rrat\\_ctte/public\\_transport/tor.htm](http://www.aph.gov.au/senate/committee/rrat_ctte/public_transport/tor.htm)

On 4 December 2008 the Senate referred the following matter to the Rural and Regional Affairs and Transport Committee for inquiry and report by 18 June 2009:

The investment of Commonwealth and State funds in public passenger transport infrastructure and services, with reference to

- the August 2005 report of the House of Representatives Standing Committee on Environment and Heritage, Sustainable Cities, and
- the February 2007 report of the Senate Standing Committee on Rural and Regional Affairs and Transport Committee, Australia's future oil supply and alternative transport fuels, including:
  - a. an audit of the state of public passenger transport in Australia;
  - b. current and historical levels of public investment in private vehicle and public passenger transport services and infrastructure;
  - c. an assessment of the benefits of public passenger transport, including integration with bicycle and pedestrian initiatives;
  - d. measures by which the Commonwealth Government could facilitate improvement in public passenger transport services and infrastructure;
  - e. the role of Commonwealth Government legislation, taxation, subsidies, policies and other mechanisms that either discourage or encourage public passenger transport; and
  - f. best practice international examples of public passenger transport services and infrastructure.

The inquiry will be advertised in the Australian on 17 December 2008 and the committee has invited submissions by Friday 27 February 2009. No dates for hearings have been set as yet.

The Secretary  
Senate Standing Committee on Rural and Regional Affairs and Transport  
PO Box 6100  
Parliament House  
Canberra ACT 2600

## Appendix 3 - Extracts BicycleNSW submission to Sustainable Cities Inquiry, October 2003

### 'The role of the federal government in sustainable cities

To ensure sustainable cities are possible the federal government is required to take active steps to assist sustainable transport and reduce overall vehicle kilometres travelled (VKT).

Government policies that actively support the motor vehicle industry to the detriment of other modes need to be revisited, and action needs to be taken in the following areas:

1. The federal Government needs to **end the Fringe Benefit Tax concession** on company cars and divert this subsidy into the construction and maintenance of urban public transport and cycling and walking facilities. This would greatly enhance the sustainability of cities by reducing the number of cars on the road and by providing a source of funding for public transport.
2. The funding of the Department of Transport and Regional Services "Australia Cycling 1999 - 2004 The National Strategy" which was launched in 1999 but has no funding. To keep abreast with the developments in other OECD countries the Federal Government should provide **appropriate funding** to give this program impetus and effectiveness.
3. Continue and enhance the "Roads to Recovery" program (Federal Government roads subsidy) direct to specifically target cycling and walking projects. It is important that the role of **active transport is promoted** above that of further road development projects. A "Paths to Recovery" program may be necessary to actively facilitate this.
4. Further support for the \$2.4m Federal Government 'Sustainable Cities' initiative in developing integrated transport beyond the current four year commitment [**long-term funding commitment**]. The public will only take up the use of lockers if the coverage is adequate. eg in NSW there are currently only 560 lockers, yet there are 2 million bikes available for usage and extra long term funding is needed to provide sufficient coverage.
5. Revise **national standards** so that all public and private buildings, transport nodes and public services include bicycle and pedestrian infrastructure such as end-of-trip facilities.
6. Include provision of safe, attractive bicycle facilities as part of the 10 year Plan for **Tourism**. To assist the growing area of cycle tourism the Federal Government should give serious support to the provision of cycling infrastructure and motorist-cycle aware behaviour programs. This will assist in overcoming Australia's poor reputation for dangerous city cycling conditions when compared to European cities such as Paris and Amsterdam. The current aggressive road conditions discourage many tourists who view it a normal practice to explore a city by bicycle. This action would assist the development of a sustainable economy based on eco-tourism.

7. Support programs that contribute to sustainable material usage through the facilitation of uniform **national recycling regulations**. The benefit of container deposit legislation and recycling lessens energy and material use, urban litter and the safety impediments of cycling such as broken glass, which is a major impediment to safe and convenient cycling on our roads.
8. Improve the **safety of active transport users** through: the development of a national communication campaign to raise awareness of cyclists and the benefits of cycling; a focus on pedestrian and cyclist safety on all roads; and the support of the lowering of urban speed limits nationwide.'