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Jeanette Radcliffe
Committee Secretary
Standing Committee on Rural and Regional Affairs and Transport
PO Box 6100
Parliament House
CANBERRA ACT 2600
AUSTRALIA

Tuesday, February 16, 2009

Dear Ms Radcliffe

<u>Inquiry Into The Investment of Commonwealth and State</u> <u>Funds in Public Passenger Infrastructure and Services</u>

On behalf of the members of the International Association of Public Transport (Union Internationale Des Transports Publics - UITP), it is my great pleasure to present a Submission to the Standing Committee on Rural and Regional Affairs and Transport.

Included with the Submission is a copy of the UITP Publication – Public Transport International – "Sustainable Development".

UITP appreciates the opportunity to make a Submission to the Inquiry and we look forward to cooperating with the Standing Committee on Rural and Regional Affairs and Transport on this vital issue for Australia and the world.

Yours truly

Peter Moore Executive Director

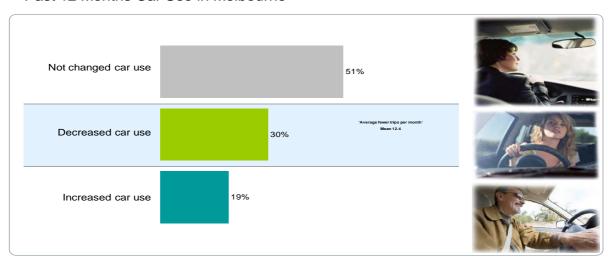


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Inquiry Into The Investment of Commonwealth and State Funds in Public Passenger Infrastructure and Services

A growing number of Sydney commuters are abandoning their cars in favour of trains and buses as economic and environmental concerns bite, with experts predicting the start of a fundamental, long-term shift in travel behaviour. Sydneysiders undertook about 22 million more train and bus journeys last year than the year before, and tens of thousands of people have abandoned the two main roads into the city this year. As petrol prices soared and some commuters paid more than \$10 each way in tolls, CityRail experienced a 5.7 per cent increase in patronage - about 17 million individual journeys - from December 2007 to December 2008. There were also 5.6 million more trips on State Transit buses - up 3 per cent. (21/2/2009). http://www.smh.com.au/national/22-million-more-trips-on-public-transport-20090221-8e8s.html?page=-1

Past 12 Months Car Use in Melbourne



- Half of Melbourne's driving population has changed behaviour in the past 12 months around a third have decreased their car use
- On the following pages we look at the attitudes among Melburnians likely to influence future behaviour

Base: Have access to a car (n=542)

Q14. And thinking about your use of that car in the past 12 months would you say it has...

Australia's major cities will need to make sustained efforts to improve their environment, efficiency and quality of life if they are to continue to prosper.

One key area threatening the future success of our cities is from ever growing traffic volumes fuelled by expansion in employment, resident population and tourism.

Furthermore, the share of employment in the CBD taken by people living in the inner suburbs of our major cities is increasing reflecting the gentrification of these areas and the changing nature of employment in the cities.

Total movement of people to and from the CBD in cities like Brisbane, Sydney and Melbourne is expected to grow by between 20% and 30% by 2020. This will be accompanied by equivalent growth in light commercial vehicles, couriers and other vehicles servicing the city centres.

The point has been reached where:

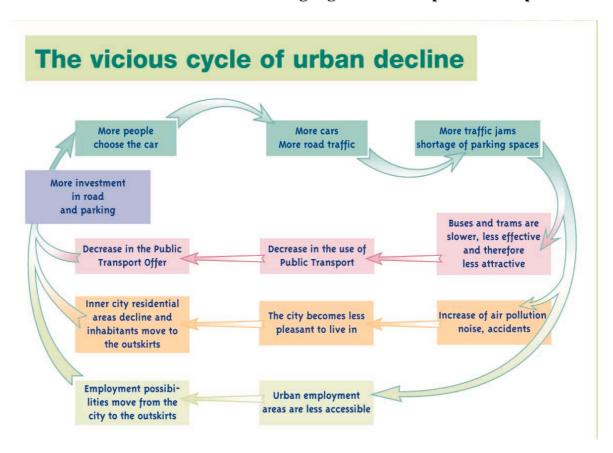
- Future growth in traffic is likely to cause significant congestion, reducing the amenity and efficiency of the city as a place to do business
- The public transport systems, covering the cities and inner suburbs need to be upgraded, both in capacity and quality, to take a greater share of the travel task. Available space needs to be used more effectively. This means re-allocating space used by private cars for passenger transport and pedestrians

What is more, external costs of transport are rising.

- Road congestion costs in 2006 were estimated at \$21 billion. The Bureau of Transport and Regional Economics (BTRE) estimated the cost of congestion in Australia was \$12.8 billion in 1996 and projected that these costs would rise to \$29.7 billion by 2015.
- Road vehicle accidents are crippling Australia. In 2007, road crashes
 conservatively cost over \$18 billion and there were over 1600 road fatalities,
 18,000 seriously injured in car accidents and over 12,000 in serious motor
 cycle accidents.
- Transport is Australia's third largest source of carbon pollution providing 14
 per cent of total emissions. It is the fastest growing sector and accounts for
 about 34 per cent of household greenhouse gas emissions. Road transport
 (cars, trucks, light commercial, buses) accounts for about 90 per cent of total
 transport emissions.
- Emissions from road transport were 30 per cent higher in 2007 than in 1990 and even with the implementation of abatement measures these emissions are projected to be 67 per cent higher in 2020 than 1990 levels. This direction is manifestly inconsistent with the scale of carbon pollution reductions required.

• National freight transport emissions grew by 30 per cent in the 15 years 1990-2005 and are expected to grow by 27 per cent in the decade 2010-2020. The Bureau of Transport and Regional Economics predicts the freight task will increase by 118 per cent from 2000-2020, a yearly increase of about 4 per cent. There must be increased investment in rail freight capacity to reduce carbon pollution, relieve congestion and avoid the costs of building unnecessary roads. Rail uses two-thirds less fuel than road per tonne of goods carried and has more than three times the environmental efficiency of road haulage.

Overall, external costs of transport are estimated to rise by some 40% over the same period, mostly involving road. It is hard to overstate the importance of rapid action to reduce the massive and increasing negative social impacts of transport.



As we enter the new millennium, communities around Australia, particularly those that are bearing the impositions of increasing fuel prices, congestion and social marginalization, are seeking a new direction - that mass passenger transport become the preferred choice — one that everyone — young or old, trendy or not will use because they like it and want to make it part of their daily routine - and because mass passenger transport is practical and user-friendly and not simply a public spirited transport mode in the sense that it uses urban space, energy and natural resources intelligently.(UITP February 2007)

A presentation by the President of the Canadian Urban Transit Association to the UITP World Transport Congress in Madrid, (May 2003) summarised the major challenge facing mass passenger transport:

"It is clear that matching the flexibility of the automobile is unachievable. The key to achieving integrated mobility is the notion of customer-orientation, a mindset that has the needs and the priorities of the customer at heart. This means a political, trade union and management commitment to adopting a philosophy of the customer as a critical focal point.

While the obvious advantage of private transport is the ability to travel from A to B in comfort and privacy without interruption, mass passenger transport requires multiple individuals to travel together, thereby limiting flexibility and requiring trade-offs regarding convenience, spontaneity and mobility.

The political and organizational challenges as well as the financial resources required to optimize the possibilities for integration are enormous. But we must adopt the customer-first principle if passenger transport is to develop a much stronger role in the urban areas of the 21^{st} century".

Most major cities of Australia and indeed the world face a dilemma. Clearly we are not going to build our way out of this problem. Current levels of community concern about the cities offer an unprecedented opportunity to act and move towards a more sustainable transport vision.

"More and Faster"

People travel longer distances and more frequently than they did 50 years ago. However, the time people spend making a trip remains roughly the same. In short, people are demanding more mobility, faster. It is clear that this growth in travel demand cannot be supported by existing transport infrastructure, and building more roads has already proved, time and again, not to be the answer.

In rapidly developing countries, ad-hoc urban planning and urban sprawl combined with increasingly congested roads has already brought alarming consequences. People have to commute for longer and high levels of congestion makes surface public transport services less reliable and less attractive.

If they have the choice, more people then travel by car, which is more expensive and as slow but provides more comfort.

This further marginalises the poor and the less able as not everyone has this choice. It also makes all transport less safe, as increased traffic increases the risk of accidents for everybody.

This has a strong impact on the mobility of women and the young and ageing populations, who rely heavily on public transport for their mobility needs.

(UITP 3 STEPS TO URBAN MOBILITY-2003)

Urban dwellers in developing countries are traveling twice as far as they did 20 years ago. Typically, US city dwellers travel more than 15,000 km a year within the urban area and make about 3.5 motorised trips a day, all by car. In western European cities, people travel between 6000 and 11,000 km a year by motorized transport, but 25 to 35% of these trips are by mass passenger transport. These people make between 1.6 and 2.3 motorised trips per day.

The good news is that well-developed mass passenger transport networks provide highly competitive door-to-door journey times compared with the car. According to data presented to UITP, passenger transport is 50% faster than private transport in Tokyo and Osaka, 31% faster in Mumbai, India and 100% faster in Hamburg, Germany. Passenger transport is very competitive with road in London, Oslo, Paris, Vienna and Zurich. However, apart from New York, passenger transport is much slower than travelling by car in North America and Australian cities, reflecting the greater fluidity of the road networks.

It is an easily demonstrable fact that mass passenger transport is far more economically-efficient for the community as a whole than private transport.

The direct financial costs of journeys made by private modes of transport in Western Europe take up an average of 6.7% of GDP, compared with only 1.6% for public modes of transport. In the European Union, congestion costs alone have been estimated at an average 2% of GDP, or about 120 billion euros. Public transport also consumes 3.7 times less energy per passenger than private modes of transport in Europe.

The difference is even more dramatic in the case of Japan, where public transport is as much as 10 times more energy-efficient than private modes of transport.

Mass passenger transport services typically account for 5-8% of travel needs in Australia's major cities. If mass passenger transport is to make a significant contribution to dealing with the issues of urban congestion and related issues, this usage rate needs to be increased to at least 12% in the medium term with a longer term target of 20%.

All of this is well and good, but it is difficult to persuade governments and the business community to opt for sustainable and environmentally-friendly transportation unless it is a viable business proposition.

A major reason for the lack of tangible action is the absence of a transport policy support at the Federal Government level. The Federal Government does not have an urban transport policy but does pursue a tax regime that is detrimental to the use of passenger transport. It is difficult for State Governments to provide high quality public transport services without that supportive policy framework.

This is despite the obvious problems of too many cars in cities, their contribution to global warming, accidents and other major social and environmental difficulties. In fact the GST and ongoing arrangements for Fringe Benefits Taxation bring a degree of relief to motorists while further taxing public transport users.

It is frustrating to see how the private motor car is an overly protected species, while public transport is under-valued and under-appreciated

Consider this:

Over the past few years we have seen car prices drop post-GST by around 5-6% while mass passenger transport fares have increased by 8-10%.

FBT benefits continue to provide for extensive car usage and the cessation of fuel price indexation and **cost \$1490 million in 2007-8 in subsidies.** FBT encourages excessive car use, with subsequent increases in carbon pollution, loss of government revenue and congestion.

There are two distinct sources of inefficiencies in the current statutory formula method:

- 1. its general concessionary nature which favours motor vehicles over other forms of transport; and
 - 2. the distorting incentive to drive more than would otherwise be the case.

The perverse impact is illustrated by the fact that although company and government cars comprise 16.5 per cent of all car sales in Australia, they account for 40 per cent of peak hour traffic.

Subsidies such as these are in direct conflict with our need to reduce carbon pollution. The tax and transport system needs to better align with social, environmental and economic policy objectives, including approaches that proactively encourage sustainable transport choice.

Fifty years of funding facilities for motorists in Australia has not achieved much in terms of improved accessibility or an improved environment for people. It would be instructive to put some of that same effort and funding into sustainable development through new types of urban form and transport over the next twenty years to see what could develop.

Political Leadership

UITP has consistently argued for an integrated and prioritised approach to transport and planning matters in Australia. The recent initiatives announced by some State Governments in this regard are to be applauded.

It is the view of UITP that effective resolution of our cities future transport requirements must take into account the important needs and capabilities of adjoining regions. Our major cities are emerging as a number of overlapping and interlinked communities

On this basis, the question of their future transport needs cannot be properly addressed without due consideration of other related transport and social issues.

Political leadership has emerged as the key issue for public transport into the future.

Unless local, state and federal governments around Australia set a new direction for public transport and begin to play an active role in its implementation, then it is not likely that our cities will become the high quality, internationally competitive places that we aspire to occupy and function within.

As UITP has suggested, the time for tinkering at the edges of transport policy in Australia has passed – it is time for delivery!

Let us start with the premise that there is an urgent need for changing the mix of transport - UITP can cite few examples of major cities in the world continuing to build expressways in their metropolitan areas.

One of the key issues for all Governments is funding capital infrastructure and the ongoing operations of quality passenger transport systems.

Funding Public Transport - But How?

Clearly, well-designed public transport networks can make a significant impact on urban congestion. But it is up to planners and operators to press the case for investment in public transport. All too often the high cost of investing in public transport is seen as a major deterrent.

It is time new sources of funds were identified in Australia to build new transport systems.

Solution 15: Innovative Financing is needed for investing in Public Transport



A large part of the cost of the tramway in Rouen, France was financed by the transport levy paid by employers.

Investment in a good public transport system benefits all citizens.

The advantages of good public transport networks are not only confined to their passengers. Therefore, investments in infrastructure and all operational costs should not be entirely paid for from the farebox revenue. Non-users should also contribute, as they also benefit from having an attractive public transport system and roads less congested.

There are many ways to link public and private financing and to raise funds for public transport:

- Property developers's contributions (e.g. Hong Kong, USA, Docklands GB).
- Taxes on salaries (e.g. the Transport Levy in France) are spent on improving public transport.
- Tax on fuel e.g. in Germany is dedicated to local transport investment.

Each country has different ways to fund Public Transport projects, but investment should be made where it benefits the most citizens Perhaps we could look to the example of "Congestion Pricing" in London

- Congestion Pricing

The congestion charge was introduced on 17 February 2003. The scheme - seen as a huge political gamble by then London Mayor Ken Livingstone - aimed to reduce congestion in the British capital, where traffic moved at an average of less than 10 mph during the day.

Transport for London has reported that since its introduction:

- Traffic has been reduced by 20% and delays cut by 30%.
- Speeds in the charged zone have increased from 9.5mph to 20mph.
- Delays to buses caused by congestion are down by half.
- Bus patronage is up by 14%.

All of the proceeds from the Scheme are being directed to public transport. This is an essential aspect of the Charging Scheme- the public can clearly identify that the funds are directed to public transport and not consolidated revenue – "transparency" is all important to successfully introduce new taxing regimes for the community.

Similar schemes are now being considered for Stockholm, Birmingham and Manchester with major cities in the United States expected to follow suit.

A big plus for congestion pricing is that technology makes it feasible. With video cameras tracking licence tags, or responders on windshields, checkpoints or visual inspections are no longer necessary. The responder technology can even adjust pricing to known hours of the day, or actual road conditions. The principle is easy.

You pay for what you use!

But are Australia's major cities ready for such a scheme? Traffic congestion has become serious enough to suggest that the city is a logical candidate for such a scheme. But we need to be careful in how it is applied – even in Singapore with its enviable high-quality mass passenger transport and sophisticated cordon pricing systems there is a huge demand for car ownership. Quota controlled 10-year Certificates of Entitlement in Singapore change hands at up to ten times the value of the actual vehicles.

Singapore - Electronic Road Pricing Scheme

- Population: 3.6 million
- Total Vehicles 700 000
- Introduced payment for entering the Central Business District (CBD) in 1998

Different tolls for the different roads used are automatically debited via a smart card and device. Restrictions apply from 7.30 am to 7.00pm and from 7.30 am until 9.30 pm on the outer expressway Benefits:

- Reduction of nearly 25,000 cars during peak times and an increase in traffic speed.
- Total reduction of traffic in zone during charging period of 13%.
- Increased passenger use, meaning less solo drivers.
- Shift of vehicles from peak to non-peak periods.

But how effectively can urban public transport match the quality of travel offered by the private motor car?

There is an imperative to occur before charging is considered – a high quality, reliable mass public transport systems. If commuters are to be "priced encouraged" out of their cars, strong rail and bus alternatives and appropriate "add-on" services must be available.

The "Seamless Journey"

The concept of the "seamless journey" for public transport requires new kind of partnerships, based on fair and long-term co-operation, rather than competitive free-for-all in search of mythical economies.

To match the requirements of today's traveler, a comprehensive transport system must bring together traditional bus and rail services with such innovations as shared taxis, car-sharing, pedestrians etc. Concrete action to enhance the attractiveness of public transport is needed from both operators and local authorities.

The choice of transport modes and the links between them are also critical, from the train to the taxi - not forgetting cycling and walking and appropriate car use.

Interchange between modes must be improved to take account of customer needs, technical performances, the area of influences and the financial parameters of each.

Integrated park and ride can work

Some people claim that it is impossible to get people out of their cars and on to passenger transport, especially for short trips. However the experience in cities such as Portland and Strasbourg suggests that this is not the case if well-designed park and ride facilities are combined with an attractive, high frequency, convenient passenger transport option.

Strasbourg has built eight park and ride facilities on its initial light rail lines, and has four more planned for its new extensions. Portland has some fourteen park and ride facilities and both systems generate a significant share of total light rail patronage from park and ride. A number of these facilities are relatively close to the downtown areas, and involve transferring to a short ride on the light rail system. This helps reduce traffic in the city centres.

In addition the Portland light rail system provides good access to the whole CBD, whereas driving in and parking in the city can still involve significant walks, depending on the final destination (s).

Solution 11: Attractive Interchanges are key to successful public transport



An interchange in Vancouver British Colombia, Canada showing the easy transfer between modes.

The larger the city, the more passengers have to change between buses, metros, trams or other modes. This waste of time can be a great inconvenience, if these interchanges are not well planned and made attractive.

In good interchange areas, passengers should be able to use their time in an enjoyable way, to dine and shop for instance, and these areas can become a dynamic part of a city.



Interchanges should not be only used for transport purposes, but should be developed as interesting and lively parts of a city.

Electronic Ticketing/Passenger Information

Smartcards, integrated ticketing, real-time passenger information, convenience, safety and many other issues are all essential elements for passenger transport to become as convenient as the private motor car, all essential elements to introducing the concept of the "seamless journey".

Best Practice 8: Easy access to all modes by 'e-ticket'



Nearly 80% of the total population of Hong Kong possess at least one smartcard. Each day 4.5 million transactions for public transport are made – a remarkable technical success for improving client service.

A contactless smartcard in Hong-Kong has been in operation since 1997. This contactless ticketing system integrates all modes of public transport (trains, metro, light rail, bus and ferries).

Used by 85% of passengers, the Smartcard reduces access time to platforms and vehicles. Its use is not limited to public transport and electronic purse applications have been added so that other services such as parking, taxis, and the telephone can also be paid for. The overwhelming success is attributed to its convenience.

New marketing applications and revenue streams are being developed and transport applications are being called the 'killer application' for contactless smartcards.

New electronic tickets make journeys easier for public transport users.

Best Practice 7: New technology can be used to better inform passengers



London Underground is one of the leading transport companies in the field of information technology, with its real-time information giving next train arrival times.

OVR, Openbaar Vervoer Reisinformatie, is the intermodal source of passenger information for The Netherlands. A single telephone number for the call centres gives access to all the timetables of any mode of public transport, as well as, a 'door-to-door' itinerary showing the best way to the chosen destination. OVR also takes reservations and payment, and the information it gives out includes taxis and walking or cycling itineraries. OVR receives more than 10 million calls per year.

Göteborg, Sweden, has a network wide real-time passenger information system. The information centre monitors the position of vehicles on their routes allowing real-time information of the next service to be given at stops, including any disruption to service. This information is also available in the vehicles themselves and is accessible via the Internet and mobile telephone (WAP – wireless application process).

Good passenger information is a deciding factor to increase the competitiveness of public transport.

Quality of Public Transport – The Key to Changing the Car Culture (Reprinted from Metro Report – Railway Gazette, Great Britain 2003)

Across the world people have become accustomed to the convenience of door-to-door travel, on demand, at any time of the day or night.

For public transport to match the cars' flexibility, it needs to function as a seamless network with no barriers between rail, light rail, metro and bus. Interchanges must be physically convenient and timetables and ticketing should be comprehensible to the most inexperienced user.

Operators in Switzerland or Japan argue that running services on-time might be more attractive than investing in complex information systems. But there is evidence that many journeys are lost to public transport because of poor information, missed connections, indifferent performance and the absence of true through ticketing. Many operators are beginning to adopt smart cards, although we have yet to see a genuinely "go-anywhere application" along the lines of the Dutch *strippenkaart*.

Funding of public transport must be accompanied by a radical rethink of our transport priorities!

Road planners, facing a similar problem in the late 1980s, uncovered new revenue streams through tollways. It is not so easy with public transport. Applying big

surcharges to specific tickets has proved an abject failure, as shown by the airport rail link.

But user pays - with "user" defined as all those who travel in the city and benefit from good Sydney transport - from several sources - is workable and affordable if applied to big-ticket items that consumers can see direct benefit from.

- Petrol Taxes

In the western world, Australia has one of the lowest prices for gasoline -3^{rd} after the United States and Canada. Petrol in the United Kingdom and Europe is currently priced at around \$A3.00 per litre and provides a significant encouragement to seek alternative means of transport – and provides Governments with a funding source to support that alternative.

On environmental grounds, never mind energy security, Australia taxes gasoline too lightly.

Better than a large one-off increase to pricing that will emerge as supply pressures intensify around the world, a politically more feasible idea and desirable in its own terms would be a long-term plan to shift taxes from incomes to emissions of carbon.

This would spur development of new transport technologies—vital in curbing the demand.

Gradualism is the key to doing this intelligently. The time to start is now!

State and Territory Governments in Australia have continued to avoid the opportunity to directly tax fuel sensing a political backlash to such a policy. However, work undertaken by UITP and others suggests the community will be accepting of such policies where a transparent arrangement for directing funds to public transport is clearly delineated and delivered.

The decision maker's perception of Problem 13: public opinion



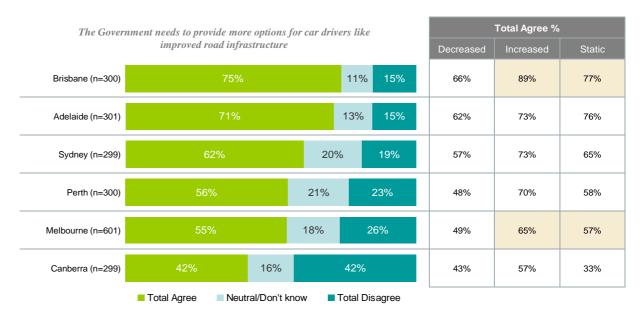
Where citizens can make decisions on transport, as in some US States or in Switzerland, they generally approve investments in public transport and restrictions of private traffic in urban areas.

- A large-scale population survey in 12 European countries has shown that:
- Car traffic is the most important local problem.
- 59% of the population say car traffic has already reached unbearable or hardly bearable levels. 84% of the population would opt for priority for public transport, even if it conflicts with private traffic needs.

How politicians evaluate the opinion of the public towards public transport

Half of the political decision-makers underestimate th of their electorate to give buses and trams priority.

Attitudes Toward Transport Issues - By City



- · Demand for improved road infrastructure far weaker in Perth, Melbourne and Canberra compared to Brisbane and Adelaide
- · Far less demand among the 'road friendly' Increaser and Static groups in Melbourne compared to Sydney, Adelaide and Brisbane

Base: Total sample

Q21. Now I'll read out some general statements about transport related issues that other people have talked about. Using a scale where 1 means Agree Strongly and 5 means Disagree Strongly, I'd like you to indicate how much you agree or disagree with each statement.

Two major Australian community attitudes studies have been undertaken on urban transport issues. Both surveys reflect similar findings.

The first is the ARA Urban Transport NewsPoll in August 2001 which found:

- 83.7% support the building of more rail lines to reduce road congestion, compared with 38.3% supporting construction of more freeways to reduce congestion;
- 83.2% support Federal Government funding of new urban railways along the same principles as it funds urban roads; and
- 60% support giving pedestrians and passenger transport priority over cars.

The second is the Warren Centre at Sydney University, Sustainable Transport in Sustainable Cities community values study in early 2001, which found:

- 85% were opposed to spending on roads at the expense of public transport;
- 73% indicated that not enough money was being invested in Sydney's passenger transport;

- 71% considered that transport planning should focus passenger transport rather than toll roads;
- 70% favoured passenger transport improvements being funded from the roads budget; and
- 64% of respondents favoured road demand management instead of more freeways.

Both surveys provide strong evidence of community attitudes that should be reflected through the vision, policies and objectives of all levels of Government. These surveys also strongly suggest community acceptance for the need for change in policy and funding practices and that infrastructure investment should be re-directed towards public transport to stimulate this change.

This is clearly evidence from Europe and the Warren Centre, at Sydney University which suggests decision makers totally underestimate the expectation and strength of public opinion relating to additional funding and policy priority for public transport over road infrastructure.

The results of these two separate surveys are:

	Europe	Warren Centre
Decision Makers Opinion	82% favour public	89% favour public
	transport	transport
Public Opinion	80% favour public	70% favour public
	transport	transport
Decision makers	43% favour public	56% favour public
expectation of public	transport	transport
opinion		

Sources: UITP and the Warren Centre

It would appear that community aspirations for more sustainable transport are well ahead of political and bureaucratic "conventional wisdom" in that the decision makers are unwilling to recognise what the public want, and turn it into policies and funding obligations for public transport.

These issues are likely to be of increasing political concern in the years ahead to those politicians who do not read the signs.

Land Use Development

Throughout Australia cities have evolved into urban regions containing many different nodes of density and many scattered centers of employment, shopping, recreation and housing. People work everywhere; five years in one place is considered a long stretch; and companies follow talent.

We have seen the evolution over the past decade of the emergence of no dominant employment centre acting as the economic engine for the entire Brisbane area. The central business districts of our cities are becoming the Central Social Districts.

This changing urban form is best demonstrated by trends in office development over the past few decades. Around Australia, between 1979 and 1999, the share of office space in central business districts declined from an average of 79% to 61%, while the share of office space in outlying areas rose from 21% to 39%.

However, rather than being clustered, much of the outlying office space has been widely spread over hundreds of square kilometers, making the provision of public transport very difficult. Around Australia, approximately 70% of the nation's commuters drive to work alone. Only 5% share and only 5% use public transport.

Why? - because people are increasingly commuting from dispersed locations to dispersed locations.

The challenge in making this new urban form a workable one is to find acceptable ways to promote more compound development and mixed land uses. Office space throughout urban areas, not just in downtowns, must be much more densely grouped and better connected to other areas. This means targeting more development so it supports passenger transport, rather than precludes it.

Over the next two decades, the number of Australian households without children is expected to grow by around 80%, with childless couples constituting as much as 70% of the total population. Of these childless couples, which include married couples as well as singles, most growth will occur in those households aged 45 and older. This tells us that a different market is forming – a market more interested in maintenance-free, walkable communities than isolated sub-divisions.

However, many developers trying to offer a different approach are often stymied by restrictive zoning and planning regulations that limit density and mixed-uses.

Regulatory barriers now rank as one of the largest obstacles to alternative development with higher density development one of the most compromised.

It is true that alternative development often means development that its denser and may contain a variety of uses. It means something different than big house on big lots accessible only by the private motor car. But it does not automatically mean lower property values or more traffic congestion than a traditional neighborhood.

"Real estate values have increased substantially along Brisbane Busway"
Property values along Brisbane's south-east bus line have risen as much as 20%, as buyers take advantage of traffic free travel to the city. Around 375.000 private vehicle trips were converted to public transport along the bus line. The 15.6km line with an operating speed of 80km/hr, and opened in 2001, is part of a planned 75km long route.

UITP 3 STEPS TO URBAN MOBILITY-2003)

Denial of growth, denial of change and denial of density will not preserve the status quo in our communities. Growth and change are inevitable, and one way to accommodate both is through well-planned density.

Density "done-right" can result in increased tax revenue, expanded employment opportunities, expanded housing opportunities, additional public amenities and revitalization of neglected areas. It means offering people more choices in which to live, work, relax and move from one place to another.

Solution 1: Urban density is more cost-effective than urban sprawl



A comprehensive study for the Paris region shows, that in the outer city area where there are less than 30 inhabitants and employees/ha the cost of journeys made by car are 3 times higher than those made in the centre of Paris by metro or RER, where the density is as high as 400 inhabitants and employees/ha.

In low-density areas the car dominates the choice of transport, and the cost of providing public transport is high. In these sprawling cities almost all journeys are made by car.

The Millennium Cities Database for Sustainable Transport, prepared by UITP and Murdoch University (Aus.), shows that the cost of passenger transport for the community, as a proportion of GDP, is as low as the density is high. The reason is that in dense urban communities, the share of journeys made by public transport is the highest.

Urban Areas in	Density Inhabitants/ Hectare	Share of journeys on foot, bicycle and by Public Transport	Cost of journeys (% of GDP)
USA, Canada Oceania	18	15%	12.7%
Western Europe	55	52%	8.3%
Japan, Hong Kong, Singapore	134	62%	5.4%

Put an end to urban sprawl; the cost of journeys is low when public transport is the dominant mode of transport in a high or medium density city.

Best Practice 1: Public transport adds value to developing new areas



The London Docklands light rail was jointly financed by the developers of this new area.

In 2002, a new automatic metro line financed by private funding will link the new town of Orestad to the centre of Copenhagen. A company owned jointly by Copenhagen City and the Government of Denmark is in charge of building and operating the new metro line. It borrowed capital based on floating state and city backed bonds which are paid back by selling the land to property developers.



Finance new public transport investments with the land-owners, who are able to build up undeveloped areas, as in Copenhagen.

Investment in providing a high quality public transport system increases the value of real-estate

Remuneration and Taxation

There is a widespread perception that the taxation system acts as a disincentive to employers providing financial incentives to the use of modes other than the private motor car.

While an employee is unable to claim, as a tax deduction, for travel to and from work, nonetheless economic benefits for cars are available for employees offered a salary package.

Under certain circumstances, employees are able to improve their financial position by leasing a vehicle and reducing their taxable income. The FBT subsequently paid is based on a concessional rate depending upon kilometers travelled per year. No additional cost is imposed on users as distance traveled increases – indeed the taxable value and FBT payable actually falls the longer the distance travelled.

It is suggested that not only do FBT concessions on business vehicles cost the Commonwealth much-needed revenue but the concessions cut directly across the Commonwealth's declared policy on greenhouse gas reduction.

It is also argued that such FBT concessions lead to a growth in cars used to travel to work, with up to 50% of cars to the Sydney central business district (probably similar in Melbourne and Brisbane), receiving some form of FBT concession, causing an increase in the number of cars per household.

- International Examples

There have been moves in other countries of the world to remove taxation inequities as they relate to transport.

United Kingdom

In the United Kingdom changes were introduced in the 2002 Budget to the effect that:

- Taxation of company cars rewards cleaner and more efficient cars, by linking
 the tax charge to the cars exhaust emissions, with the objective of helping
 tackle global warming and improving local air quality.
- Employer subsidy of bus public transport is no longer subject to tax as an employment-related benefit, provided that the benefit is reasonably constrained to commuting travel.

United States

In the United States the taxation system allows employers to provide a range of taxfree non-car travel benefit options up to a value of \$US100 per month. The benefit can be additional to current salary; taken out of current salary or transferred from another benefit (e.g. cash-out of car parking entitlement) by agreement between the employer and employee.

Several US States provide employers with tax credits for offering commuter benefit programmes. For example, Maryland has legislated to provide a 50% corporate income tax credit for employer-provided public transport benefits up to \$US30 per employee per month.

Canada

In what is a first for Canadian governments, that the provincial government of Quebec has adopted a measure to provide tax incentives to employers and employees for public transport commuter benefits. The measure went into effect in mid-2003.

The new tax initiative allows an employer who pays the cost of monthly public transport passes, or who reimburses employees for this cost, to deduct this amount from their pre-tax salary. Employees who receive the benefits pay no additional tax on the benefit.

An additional provision allows workers who purchase their monthly passes themselves, who are not reimbursed by their employer, to deduct the total cost of the passes from their salary, as long as they are purchased for travel to work.

There is no doubt that these deductions will encourage a greater number of people to use public transport for work-related trips.

Canada, like Australia, has requested the measure several times since 1995 at both the provincial and federal government levels.

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As Michael Roschalu, Chief Executive Officer of the Canadian Urban Transit Association explained:

"The Quebec initiative is a first among Canadian jurisdictions and demonstrates a serious commitment to providing tangible incentives for both individuals and employers to increase the use of public transport and reduce greenhouse gas emissions. The initiative helps to make public transport a more attractive option and levels the playing field between parking and public transport benefits. It is hoped that the Quebec decision will encourage the Canadian federal government as well as other provinces to follow suit" - a more equitable taxation framework to support public transport and its users (current and prospective).

The Health of the Nation is Declining

Physical inactivity is estimated to cost the Australian community around \$10 billion per year in direct health care costs. Thirty three per cent of car journeys taken in Australian cities are less than three kilometres. Encouraging active transport for short journeys is an evidenced based, cost effective method of making substantial cuts to the obesity and diabetes epidemic.

In 2005, air pollution from cars alone resulted in health costs of some \$2 billion. If public transport patronage increased by 45 per cent, there would be a 28 per cent decrease in photochemical smog

People who live in sprawling suburbs are more likely to drive their cars and have higher body mass indexes. The likelihood that people are overweight, obese, have inadequate physical activity and spend no time walking is statistically significant for people living in areas of urban sprawl. Transit oriented developments - urban areas which have identified centres, greater mixed use, less sprawl and streets with greater connectivity - are more likely to promote walkability and physical activity.

A focus on improving sustainable transport options, including public and active transport, would provide health benefits due to greater levels of activity and reductions in noise, air pollution and accidents.

It makes economic sense to spend money on public transport and cycling infrastructure, to avoid the costs of air pollution, road accidents and sedentary lifestyle problems such as obesity.

Specific Measures To Improve Public Transport

- Giving Public Transport A Reserved Right of Way

Space is at a premium in our cities so it needs to be used sensibly.

Buses, trams and trains use 20 times less space to transport the same number of people than the private motor car.

One of the most cost-effective measures for successful passenger transport is giving it dedicated rights-of-way.

The resulting increase in speed and reliability:

- Reduces the operating costs, mainly through a reduction in the number of vehicles needs and fewer spare vehicles needed to compensate for running late
- Improves the frequency of the service
- Increasing the vehicle speed and reduced waiting times results in a shorter overall journey time for passengers

Best Practice 9: Quality Bus Corridor transports 40% to 200 % more passengers at peak times



The Stillorgan Quality Bus Corridor in Dublin has a frequency of one bus every minute during the critical peak periods and since its introduction there has been a 200% increase in ridership during the morning peak time band.

A key component of Dublin's Transportation Strategy is the introduction of Quality Bus Corridors. Twelve such corridors comprise the first phase of QBCs, with others planned to follow. The package of measures along a main corridor includes:

- priority right of way dedicated road space for buses,
- direct alignment of bus route,
- a bus every one to three minutes at peak periods,
- a modern fully accessible bus fleet,
- trained staff committed to quality and customer care,
- real-time information with expected time of arrival of next bus.
- illuminated shelters with seats at every stop.

The results so far are very successful. Bus journey times have been reduced by 30% to 50% and 60% of the passengers are new clients who formerly made the trip by car.

Improving bus routes on corridor alignments can be cost effective and produce rapid short-term benefits.

- Multihiring taxis from the CBD

At present there can be major difficulties getting taxis at certain times and locations in the CBD's of our cities, such as Friday evenings, when heavy demand means that taxis are hailed before they reach the cities.

In addition, taxi fares make it expensive to use this form of transport except on rare occasions. The introduction of multihiring could alleviate these problems. It requires:

Provision of special kiosks and safe waiting areas at special locations. These
would include maps of the major cities, marked with appropriate zones.

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- A system allowing passengers to book multihire taxis, and to amalgamate travelers into small groups travelling in the same direction. This could be done via small kiosks.
- Agreement with the taxi industry to use fixed, zone-based fares (rather than based on the meter) so that there is no confusion by passengers or drivers as to the fare to be paid. Fares would typically be set at 60% - 75% of the single hire fare for the equivalent trip.

Similar arrangements have been used from airports (eg Sydney) and other locations where there can be shortages of taxis, leading to long delays.

What Then is the Future for Australia's cities?

Will our cities continue to sprawl, become more congested and further dependent on a larger number of motor cars?

If so, this will show the way to significantly increased congestion costs, declining air quality, social malaise and lower economic returns leading to further declines in economic output and growth.

Or, will decision-makers recognise that public transport has a significant role to play in the economic and social life of their citizens, critical to the future growth of any society in an ever-increasingly competitive world.

Solutions lie in better transport and land use planning, better public transport options, new technologies and knowledge-based industries, land and water restoration projects, regional development plans and many other areas.

Australia's road users are not meeting the full community costs of their travel choices.

With such poor pricing of road use, there is excess road travel, with its attendant community costs of road damage, congestion, accidents, air pollution, greenhouse gas emissions and noise and with adverse social impacts on those without access to private vehicles.

CONCLUSIONS

- Australia's major cities have experienced major growth in the last five years, with resultant growth in traffic congestion and loss of amenity. Future growth is set to continue, threatening the efficiency and amenity.
- It is only when pricing structures are reformed to make users more accountable for the costs of their travel choices that Australia will be able to have a truly efficient land transport system you pay for what you use.
- It is now clearly vital to control the growth in traffic, and to accommodate growth in movement with greater use of public transport. However this cannot

be achieved without improvements in both the quality and capacity of our public transport systems.

- London has introduced a highly successful congestion pricing scheme and many other cities are examining this approach, which simultaneously limits traffic and provides the funds to improve mass passenger transport and the city environment.
- Australia needs to learn from these cities and move to an integrated approach to addressing these key issues. The public have indicated that they will support this type of approach provided that revenues raised are used to improve public transport and not used as a form of hidden taxation.

We should look everywhere, and not be afraid of change **but it needs leadership to make it happen.**

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