

# Loving and Leaving your Car

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***"Participatory democracy demands low energy technology, and free people must travel the road to productive social relations at the speed of a bicycle."***

**Ivan Illich, *Energy and Equity*. 1974**

# Overview

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- GHG impact of transportation, personal vehicles
- Car use trends
- Ill effects of motor vehicles
- Considering alternatives
- What can you do?

# Transportation and GHGs

- Emissions from the transportation sector account for 25% of Canadian GHG emissions; 30% in Manitoba
- Cars and light trucks make up 54% of these emissions<sup>2</sup>, mostly from daily trips

1 MCCTF Report - Manitoba and Climate Change: Investing in our Future, 2001.

2 Canada's Greenhouse Gas Inventory, 2003.  
[www.ec.gc.ca/pdb/ghg](http://www.ec.gc.ca/pdb/ghg)

# Our Love Affair with the Car

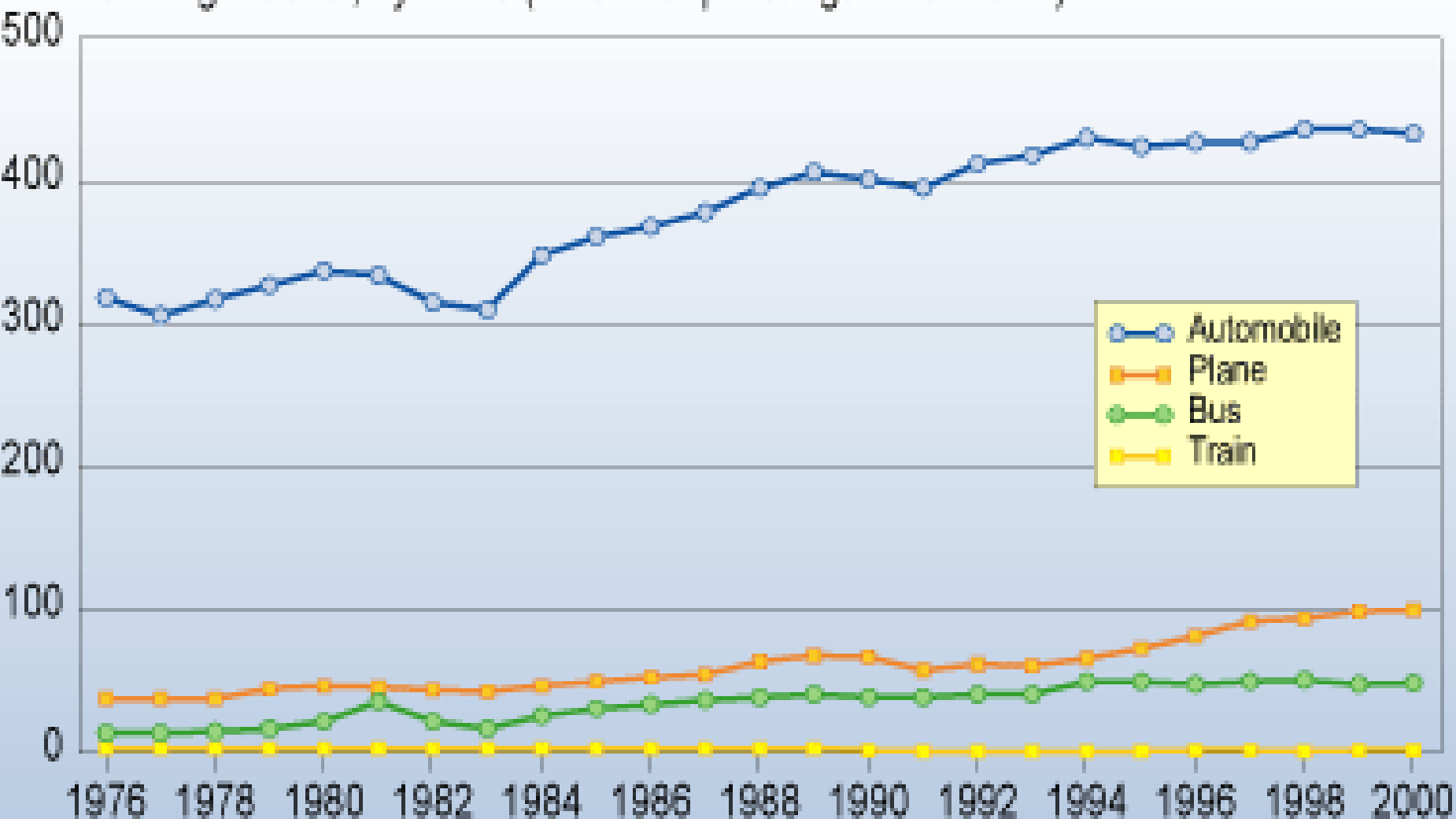
**The number of trips made by automobiles in Winnipeg is growing much faster than the rate of population growth**

(City of Winnipeg Civic Environmental Committee, 2003)



# Automobile use has increased: up 9% since 1990

Passenger travel, by mode (billions of passenger-kilometres)

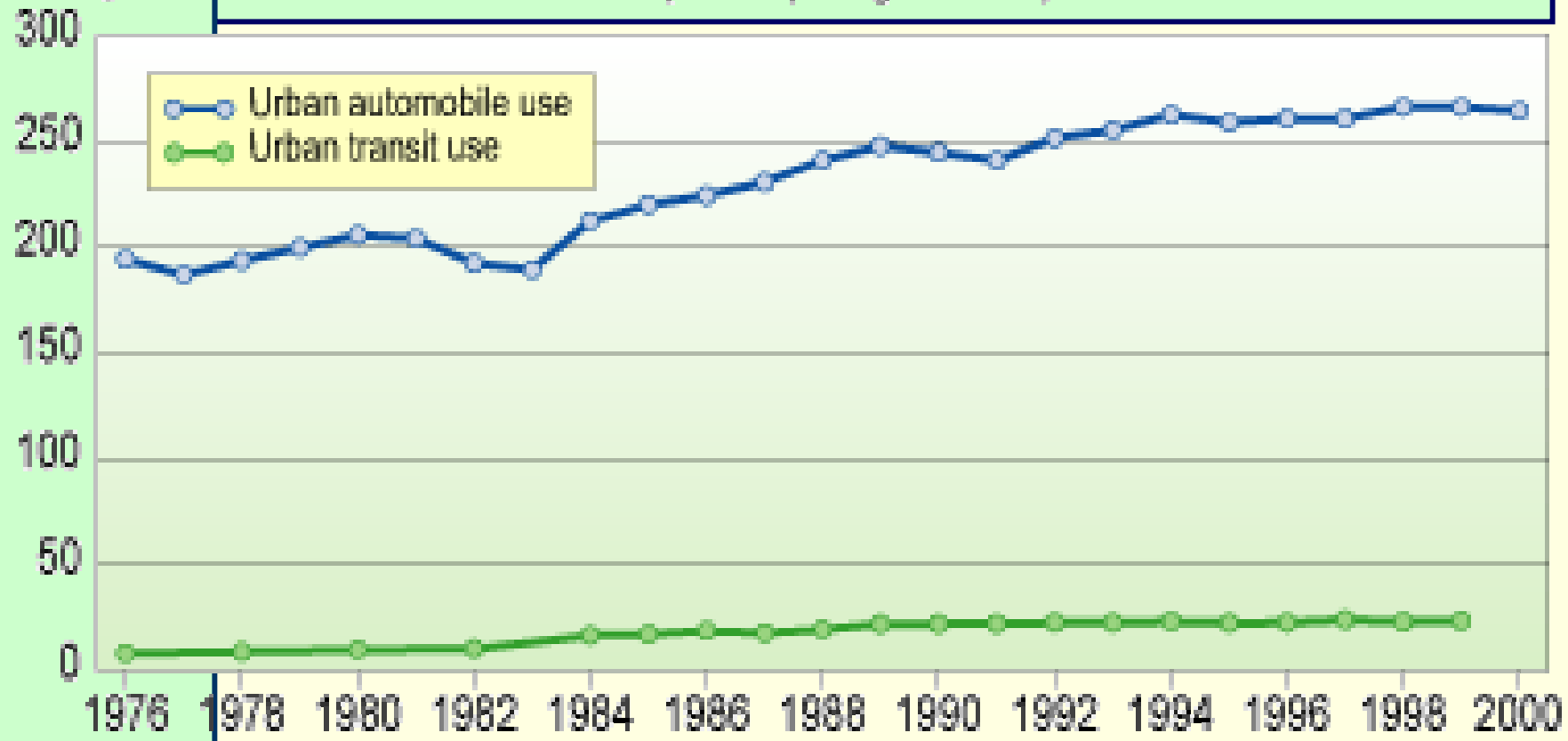


Data sources: Royal Commission on National Passenger Transportation, Canadian Urban Transit Association; Statistics Canada; Natural Resources Canada.

Adapted by: National Indicators and Reporting Office, Environment Canada.

## Public transit use remains low while urban automobile use climbs rapidly

Urban automobile and transit use (billions of passenger-kilometres)

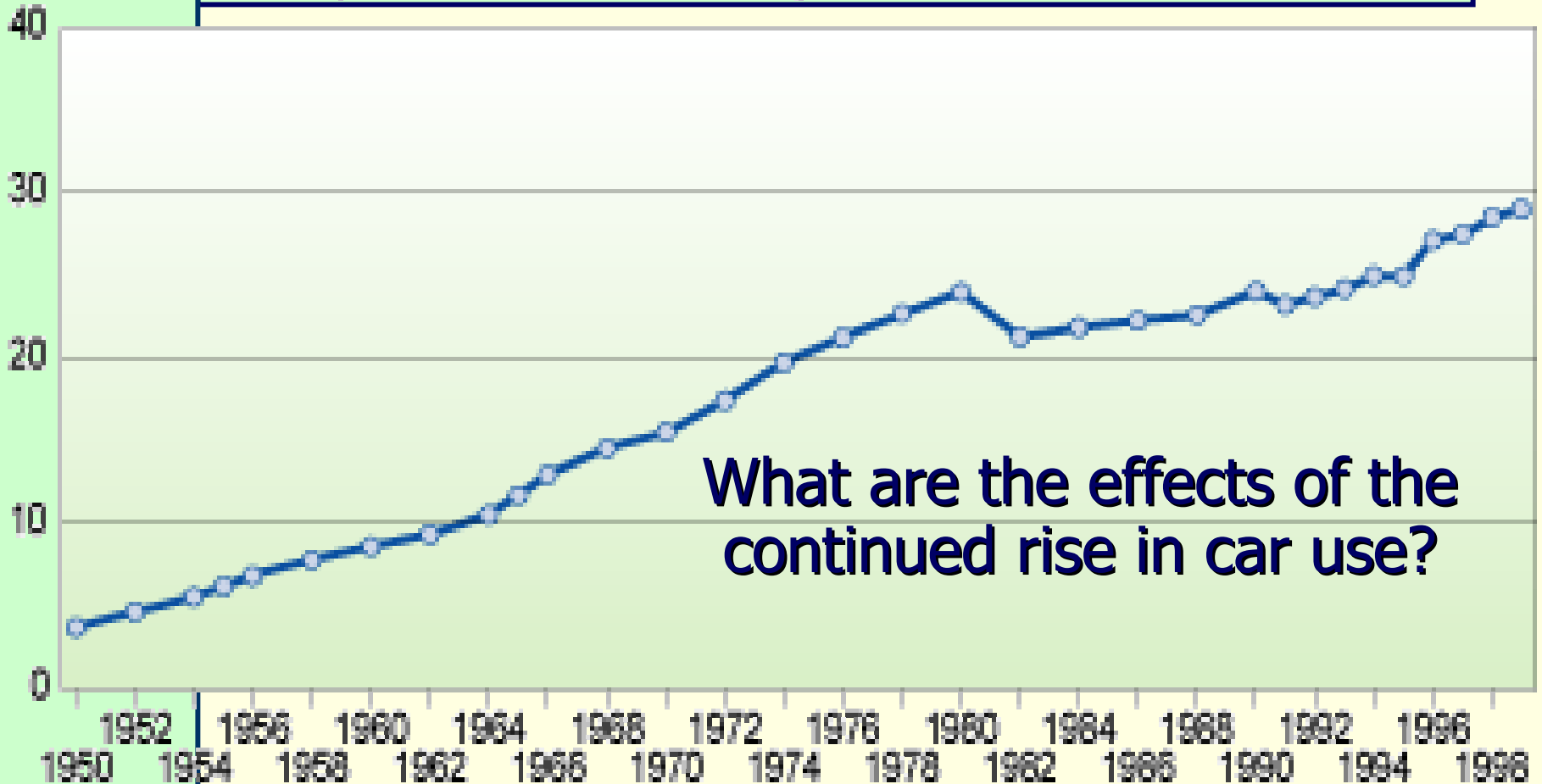


Data sources: Royal Commission on National Passenger Transportation; Canadian Urban Transit Association; Statistics Canada; Natural Resources Canada.

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# Fossil fuel use for passenger transportation continues to rise

Fossil fuel use by automobiles, vans, and light trucks (billions of litres of gasoline)



**What are the effects of the continued rise in car use?**

Data source: Natural Resources Canada; Statistics Canada.

Adapted by: National Indicators and Reporting Office, Environment Canada.

# Cars pollute...

<b>Extracting Raw Materials</b>	26.5 T waste 922 m <sup>3</sup> polluted air
<b>Transporting Raw Materials</b>	12 L crude oil in the ocean 425 M L <sup>3</sup> polluted air
<b>Producing the Car</b>	1.5 T waste 74 M L <sup>3</sup> polluted air
<b>Driving the Car</b>	18.4 kg abrasive waste 1,016 M L <sup>3</sup> polluted air
<b>Disposing of the Car</b>	102 M L <sup>3</sup> polluted air

**A car causes more pollution before it's ever driven than in it's entire lifetime of driving!**

**[www.carbusters.org/freesources/stats.php](http://www.carbusters.org/freesources/stats.php)**

# Cars slow you down...

**In Manitoba, 55% of youth aged 12-19 are not active enough for optimal growth and development.**

*Canadian Fitness and Lifestyle Research Institute, 2002*

**In 1979, 3% of Canadian children aged 2 to 17 were obese. By 2004, 8%, or an estimated 500,000 children, were obese.**

*2004 Canadian Community Health Survey*

# Cars cost lives...

The leading cause of death among young people in North America is automobile crashes.

*Globe and Mail, October 20, 2005*

Although pedestrian collisions account for only 2% of all motor vehicle crashes, they represent 12% of all vehicle-related fatalities.

*Manitoba Public Insurance, 2003*

# Cars cost \$\$\$...

In 2002, there were 6.5 M crashes in Canada and the US, resulting in 45,000 deaths and 3.4 M injuries.

*Globe and Mail, October 20, 2005*

The economic costs associated with this carnage have been estimated at \$10-billion in Canada.

*Go for Green, 2003*

The costs of building and maintaining roadways is estimated at 1.2 M \$ per km!

*Go for Green, 2003*

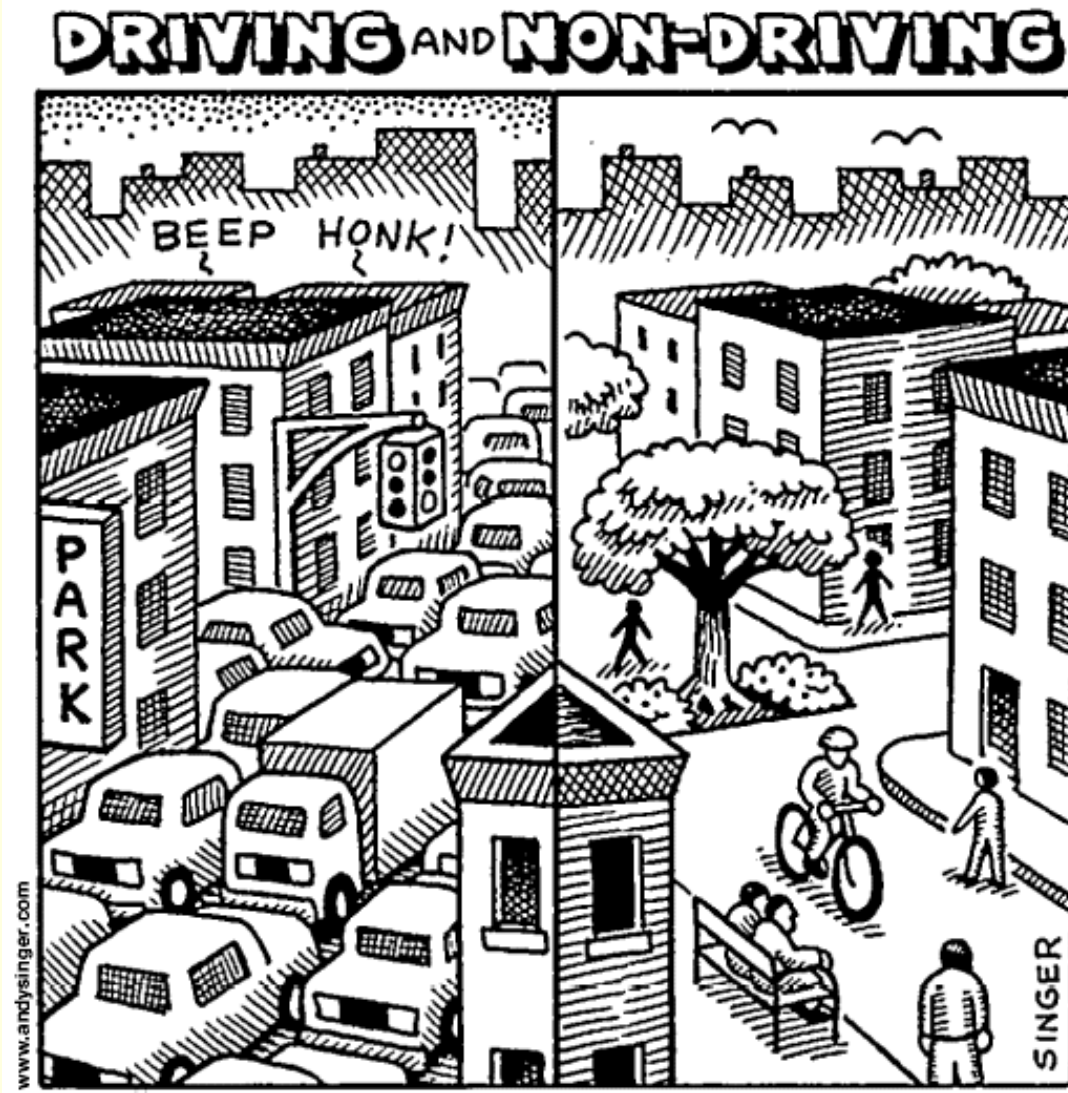
# Is Driving a Right?

Freedom to Move or Freedom to Drive?

**Mobility Management** emphasizes the movement of people and goods, rather than motor vehicles

Gives priority to walking, cycling, public transit and ridesharing, as an alternative to driving alone

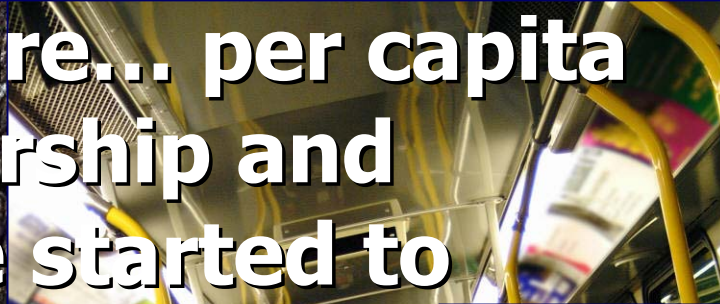
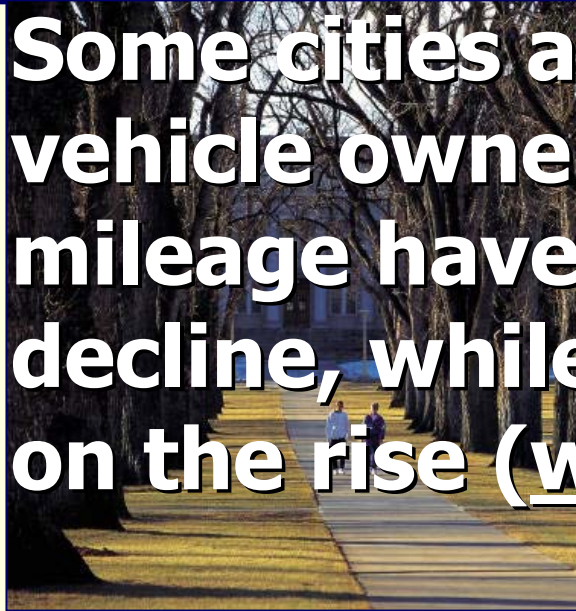
# Imagine a city without Cars....



# Recent Shift to Alternatives

Some cities are... per capita vehicle ownership and mileage have started to decline, while alternatives are on the rise ([www.vtpti.org](http://www.vtpti.org))

**What does  
Mobility  
Management  
mean for you?**



# Provide equitable access

**Safe, secure bike racks at school:**

**- advertising / grants**

**-YM/YWCA; BIZ, community centres**

**Bike workshops, rallies with students and teachers**



# Improve information



## **Mobility Options Corner**

**Transit Telebus numbers and route schedules**

**Cyclist's Map of Winnipeg**

**Winnipeg Walks book**

**Ride-matching board**

**Try Navigo: [www.winnipegtransit.com](http://www.winnipegtransit.com)**

# Ask your Government

- **City Hall:** network of safe, active, transit-oriented routes (e.g. Active Transportation Study, Rapid Transit Report)
- **Province of MB:** sustainable land-use decisions that focus on *mobility* (multi-use development in Point Douglas vs. Sprawl a la Waverly West)
- **Government of Canada** – Enforce *Green Objectives* of New Deal and Gas Tax \$\$ - (Bike paths and public transit instead of new roads and bridges)

# **Get informed, take action...**

**Government of Canada:**

**[www.climatechange.gc.ca](http://www.climatechange.gc.ca)**

**David Suzuki Foundation:**

**[www.davidsuzuki.org/Climate Change](http://www.davidsuzuki.org/Climate_Change)**

**Victoria Transport Policy Institute:**

**[www.vtpi.org](http://www.vtpi.org)**

**Car Busters:**

**[www.carbusters.org](http://www.carbusters.org)**

**Resource Conservation Manitoba:**

**[www.resourceconservation.mb.ca](http://www.resourceconservation.mb.ca)**

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