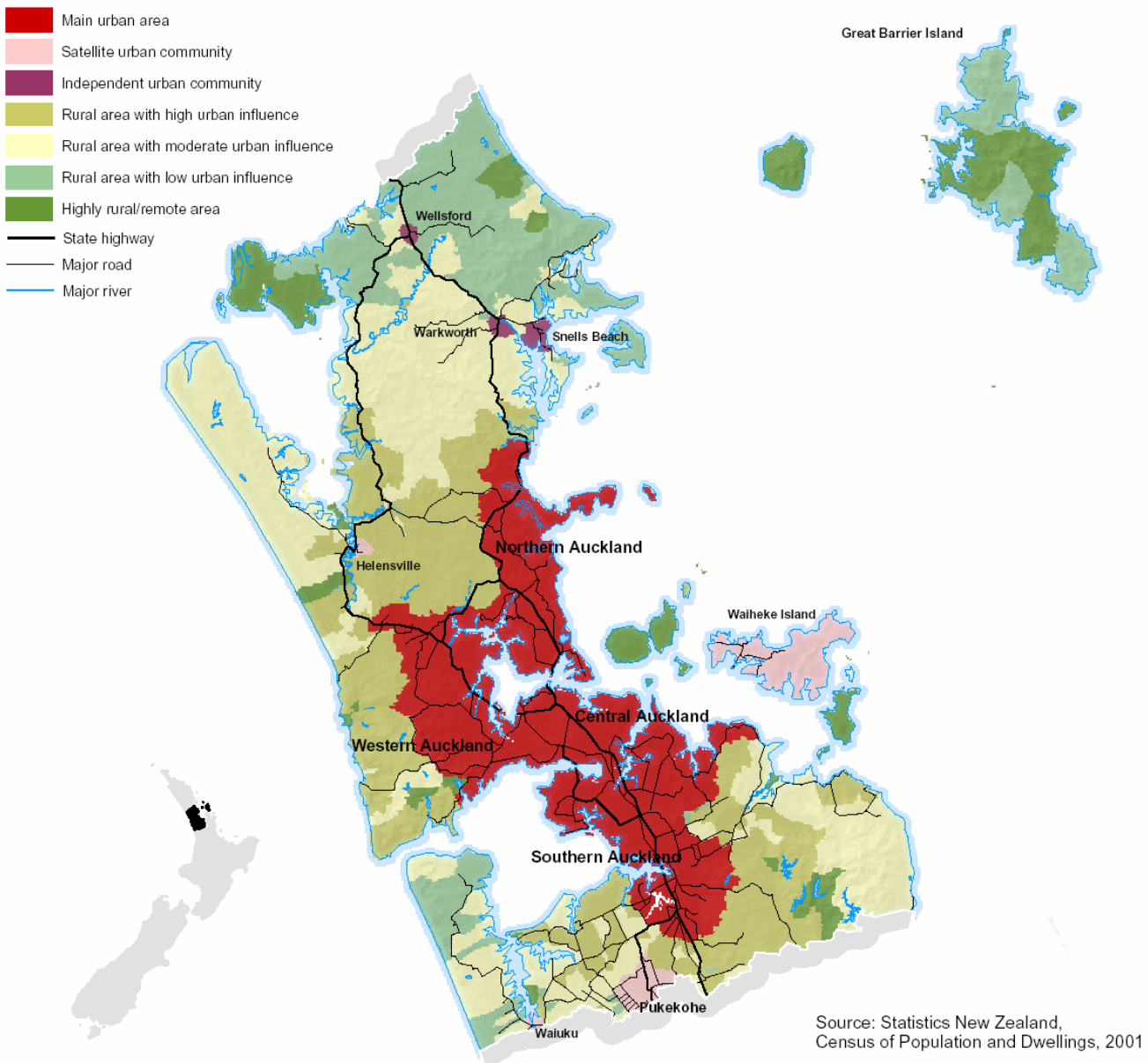


# land transport at a glance

## North Shore City

### Map of the Auckland Region



## What is *Land Transport At A Glance*?

*Land Transport At A Glance* provides a brief overview of the state of the land transport system.

## What does *Land Transport At A Glance* contain?

It contains key data that describes the contribution that land transport makes to the government's economic, social and environmental objectives for transport.

## What is its purpose?

*Land Transport At A Glance* provides all approved organisations with an evidence base for decision-making.

## Why do this?

The key strategic driver for providing data is the government's requirement that we be evidence-based and outcomes focused.

## Timing

The release of *Land Transport At A Glance* coincides with the publication of the *National Land Transport Programme* (NLTP) by Land Transport NZ on 28 June 2006.

## What are the limitations of the data?

This package is based on available data. There are gaps, which will be filled as quickly as possible. Where data does not presently exist, we will work with sector partners to obtain the data through research and other means.

## Where does the data come from?

We have compiled data from a wide variety of sources and we will continue to refresh it from these sources. Sources of data have been stated under the graphs.

## Is more data available?

A lot more data is available. A document containing detailed information about land transport is presently being prepared for release in December 2006.

## Moving forward

In the long term the intention is to:

- publish *Land Transport At A Glance* each year in June to coincide with the release of the NLTP
- have land transport data available through Land Transport NZ's website.

## Where can I get more information?

More information is available from the manager of performance information at your local Land Transport NZ office.

## What if I have feedback?

Please contact the manager of performance information at your local Land Transport NZ office. We are keen to receive your feedback so that improvements can be made.

## How do I contact land Transport NZ offices?

|       |                 |             |
|-------|-----------------|-------------|
| Phone | Northern Region | 09 969 9800 |
|       | Midland Region  | 07 958 7840 |
|       | Central Region  | 04 931 8900 |
|       | Southern Region | 03 964 2866 |

## North Shore City Auckland Region

## Statistics for 2005

|   | Territorial Authority (TA) | Region         | National        | TA as % of region | Region as % of nation |
|---|----------------------------|----------------|-----------------|-------------------|-----------------------|
| Population <sup>D</sup>   | 212,200                    | 1,337,100      | 4,098,900       | 16%               | 33%                   |
| Land area (km <sup>2</sup> ) <sup>D</sup>   | 130                        | 5,600          | 275,446         | 2%                | 2%                    |
| Imports (gross tonne) <sup>1D</sup>   |                            | 11,237,000     | -               |                   | 18%                   |
| Exports (gross tonne) <sup>1D</sup>   |                            | 8,182,000      | -               |                   | 11%                   |
| Gross domestic product (GDP) (\$) <sup>M</sup>                                      |                            | 46,892,000,000 | 148,551,000,000 |                   | 32%                   |
| Total TA expenditure on land transport (\$) <sup>T J</sup>                          | 25,169,000                 | 209,996,000    | 873,924,000     | 12%               | 24%                   |
| Passenger transport - bus boardings <sup>J</sup>                                    |                            | 43,054,000     | 86,666,000      |                   | 50%                   |
| Passenger transport - rail boardings <sup>J</sup>                                   |                            | 3,798,000      | 14,255,000      |                   | 27%                   |
| Passenger transport - ferry boardings <sup>J</sup>                                  |                            | 3,846,000      | 4,082,000       |                   | 94%                   |
| Motor vehicles <sup>D</sup>   | 144,055                    | 892,291        | 2,790,610       | 16%               | 32%                   |
| VKT (km) <sup>V J</sup>   | 800,000,000                | 11,401,000,000 | 38,874,000,000  | 7%                | 29%                   |
| Is congestion an issue?   | Yes #                      |                |                 |                   |                       |
| Social cost (\$) <sup>D</sup>   | 93,400,000                 | 792,500,000    | 3,554,000,000   | 12%               | 22%                   |
| Deliveries of petrol & diesel (litres) <sup>D</sup>                                 |                            |                | 6,075,000,000   |                   |                       |
| Energy use by transport (petrol + diesel) (MJ <sup>2</sup> ) [in 2004] <sup>D</sup> |                            |                | 186,800,000,000 |                   |                       |
| CO <sub>2</sub> emissions from land transport (tonnes) [in 2004] <sup>D</sup>       |                            |                | 12,505,000      |                   |                       |
| Local roads - all urban (km) <sup>J</sup>   | 631                        | 4,125          | 16,820          | 15%               | 25%                   |
| Local roads - sealed urban (km) <sup>J</sup>  | 631                        | 4,099          | 16,423          | 15%               | 25%                   |
| Local roads - all rural (km) <sup>J</sup>   | 41                         | 3,583          | 65,434          | 1%                | 5%                    |
| Local roads - sealed rural (km) <sup>J</sup>  | 39                         | 2,408          | 32,819          | 2%                | 7%                    |
| State highway - all (km) <sup>4J</sup>  |                            | 326            | 10,894          |                   | 3%                    |
| State highway - sealed (km) <sup>4J</sup>   |                            | 326            | 10,838          |                   | 3%                    |
| State highway - motorway (km) <sup>J</sup>  |                            | 106            | 172             |                   | 62%                   |

<sup>1</sup> indicative only - based on 2002 data. This includes both inter-national and inter-regional freight movement.

<sup>2</sup> 1 MJ = 1 mega-joule = 10<sup>6</sup> joules

<sup>D</sup> indicates year ending Dec; <sup>M</sup> indicates year ending June; <sup>J</sup> indicates year ending March.

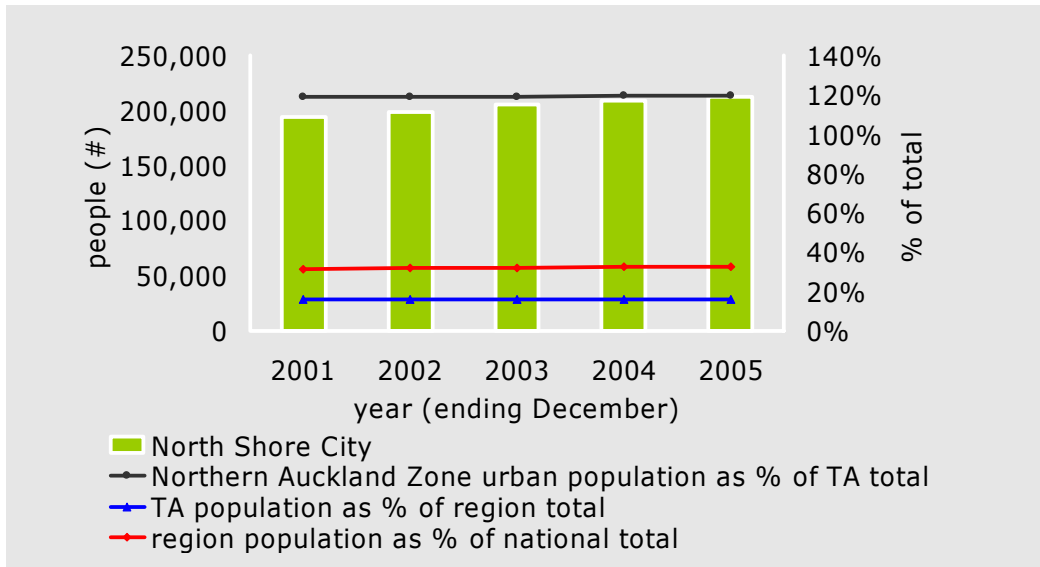
<sup>T</sup> Total expenditure covers local and national contributions to territorial authority expenditure. Regional Council and Transit NZ costs are excluded.

<sup>V</sup> TA VKT = local roads. Regional and national VKT includes local roads and state highways

# The AM peak congestion is the heaviest, followed by the PM peak. In the interpeak period many Auckland roads flow quite smoothly, and this is reflected in the relatively high actual travel speeds. The combination of areas of heavy congestion and relatively high variability results in significant variations in trip times.

## Population

### Population estimates for North Shore City



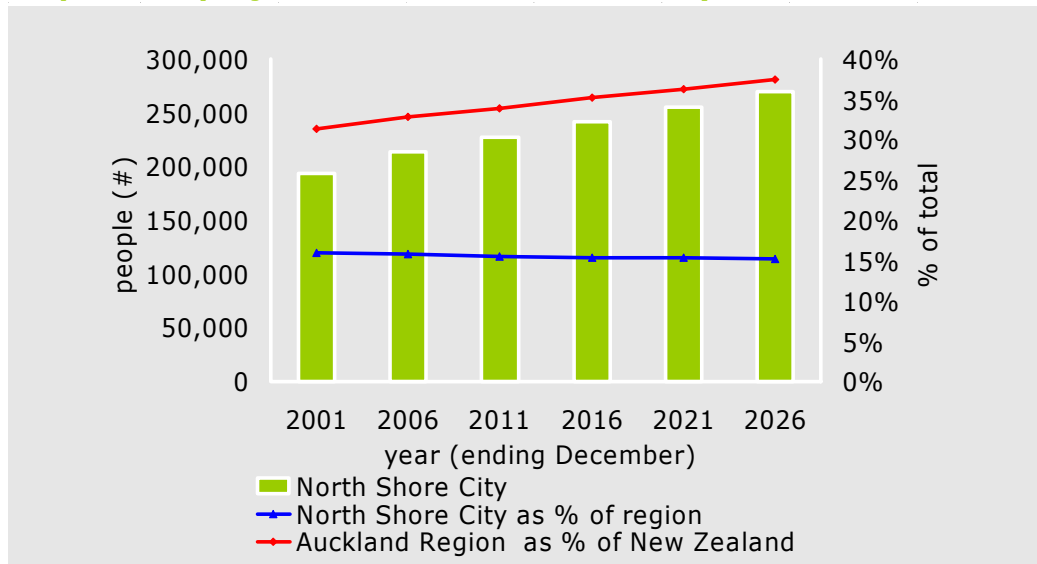
Source: Statistics NZ

#### Growth rates:

(average per annum for years shown)

|  |              |
|--|--------------|
| <b>Urban Area - Northern Auckland Zone</b> | <b>2.56%</b> |
| <b>North Shore City</b>                    | <b>2.32%</b> |
| <b>Auckland Region</b>                     | <b>2.47%</b> |
| <b>New Zealand</b>                         | <b>1.41%</b> |

### Population projections for North Shore City



Source: Statistics NZ

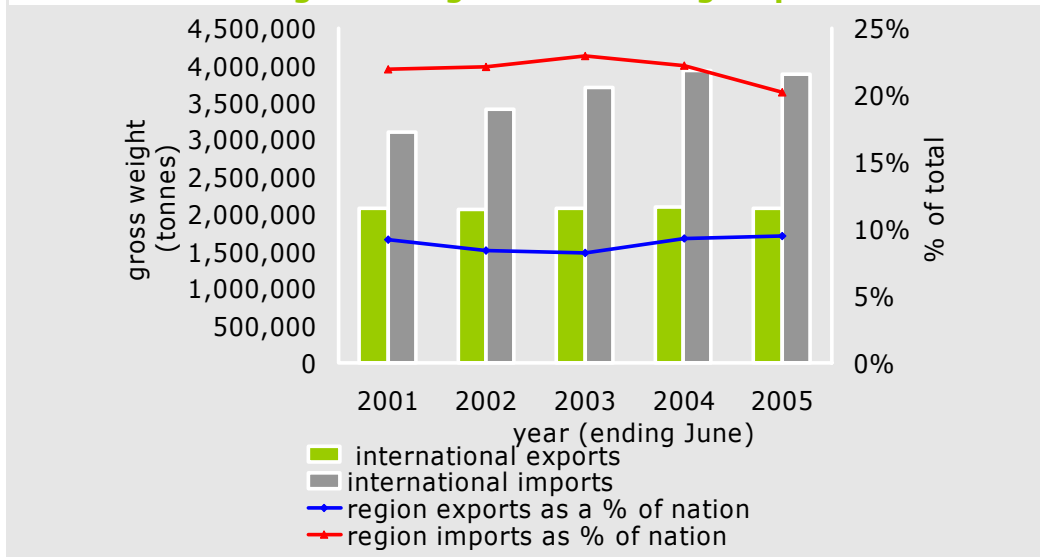
#### Growth rates:

(average per annum for years shown)

|                         |              |
|-------------------------|--------------|
| <b>North Shore City</b> | <b>1.55%</b> |
| <b>Auckland Region</b>  | <b>1.83%</b> |
| <b>New Zealand</b>      | <b>0.88%</b> |

## Economic impacts

### International freight through Auckland Region ports

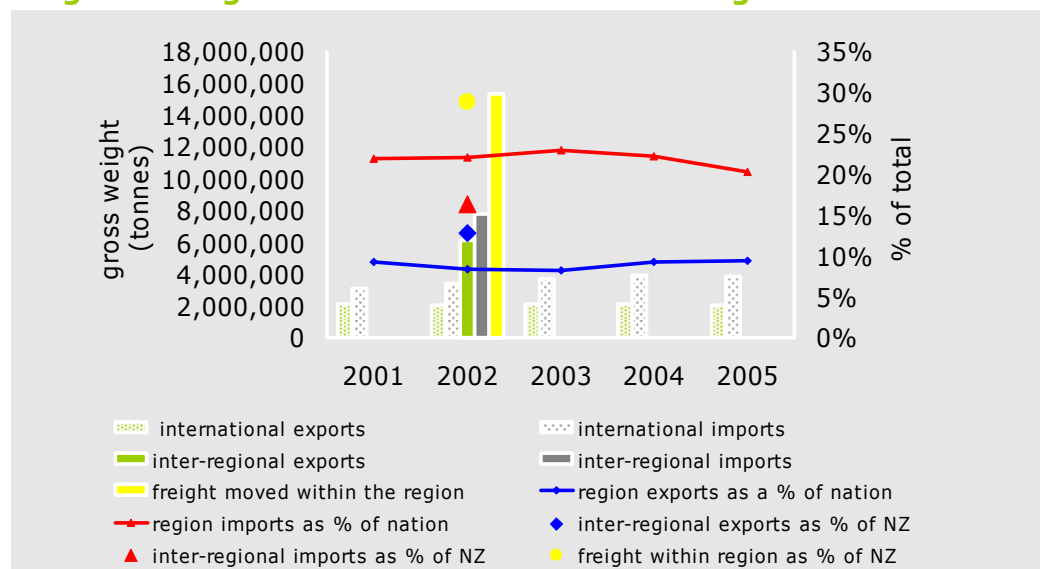


Source: Statistics NZ

**Airport(s):** Auckland Airport

**Seaport(s):** Auckland

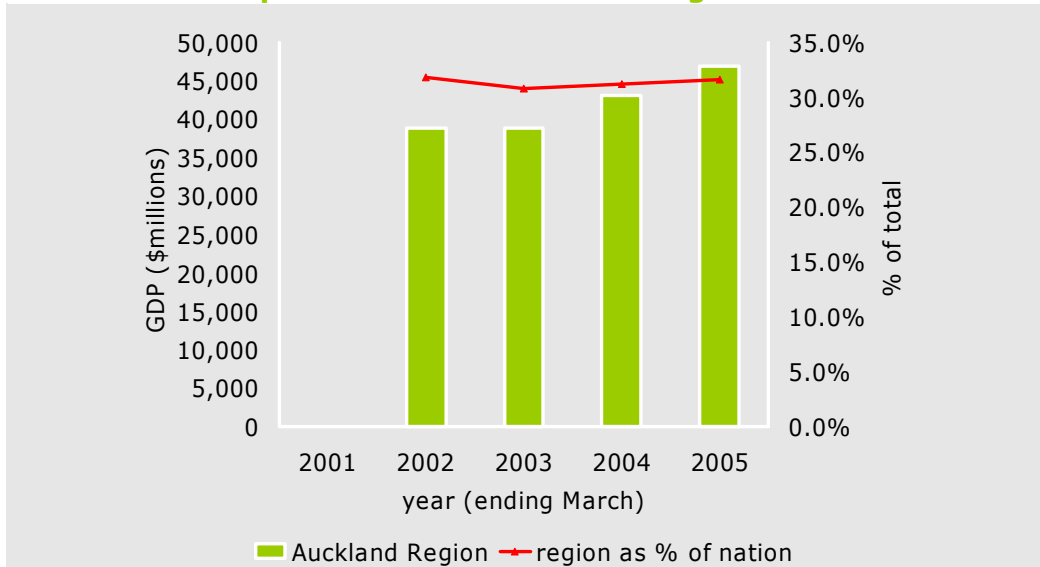
### Regional freight movement for Auckland Region



Source: Booz Allen Hamilton (NZ) Ltd, 2005, *Development of a New Zealand National Freight Matrix*

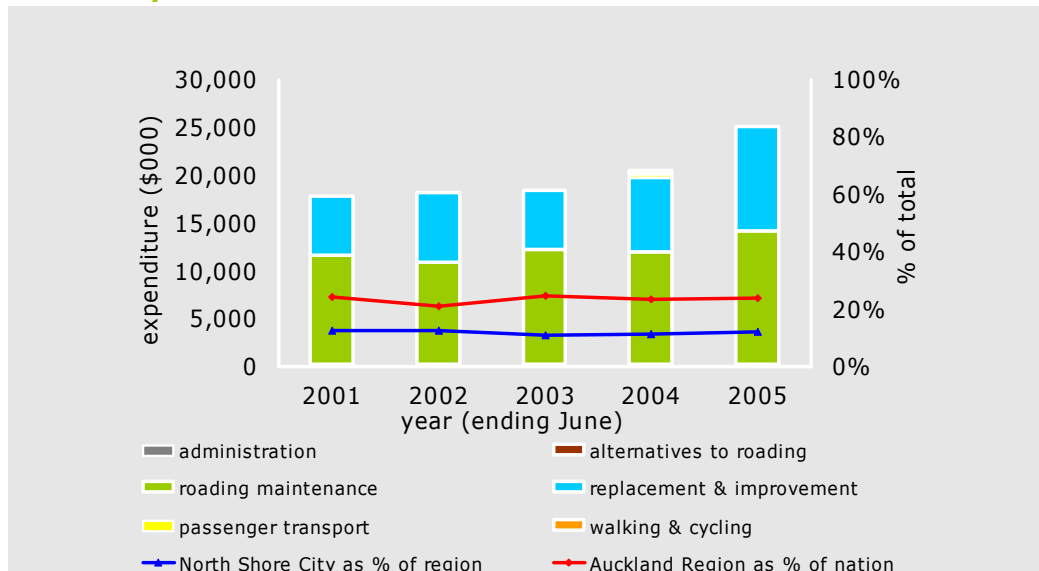
## Economic impacts (continued)

### GDP in current prices for the Auckland Region



Sources: NZIER & Statistics NZ

### Total territorial authority expenditure on land transport for North Shore City

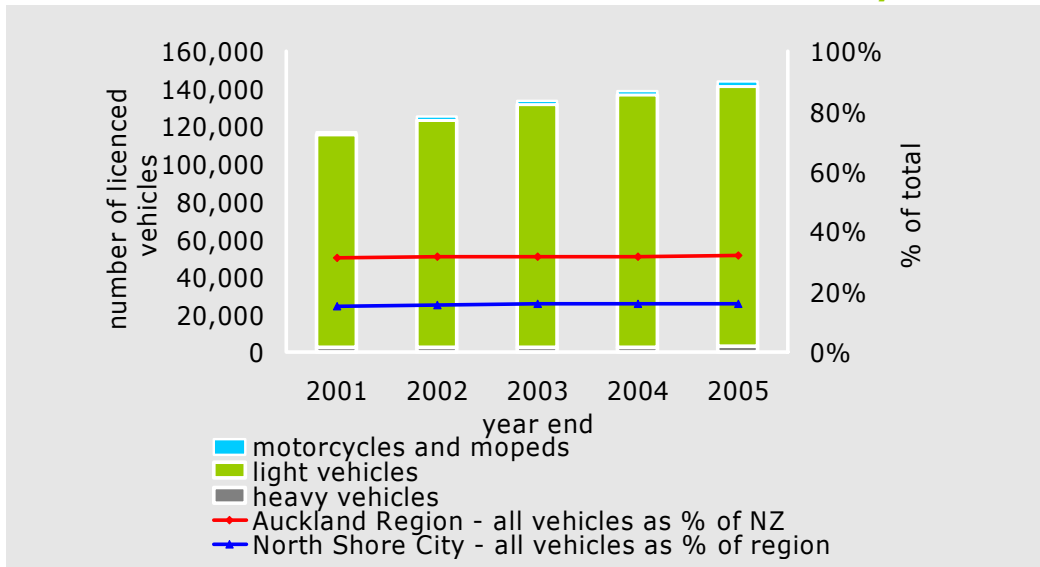


Source: Land Transport NZ

Total expenditure covers local and national contributions to territorial authority expenditure. Regional Council and Transit NZ costs are excluded

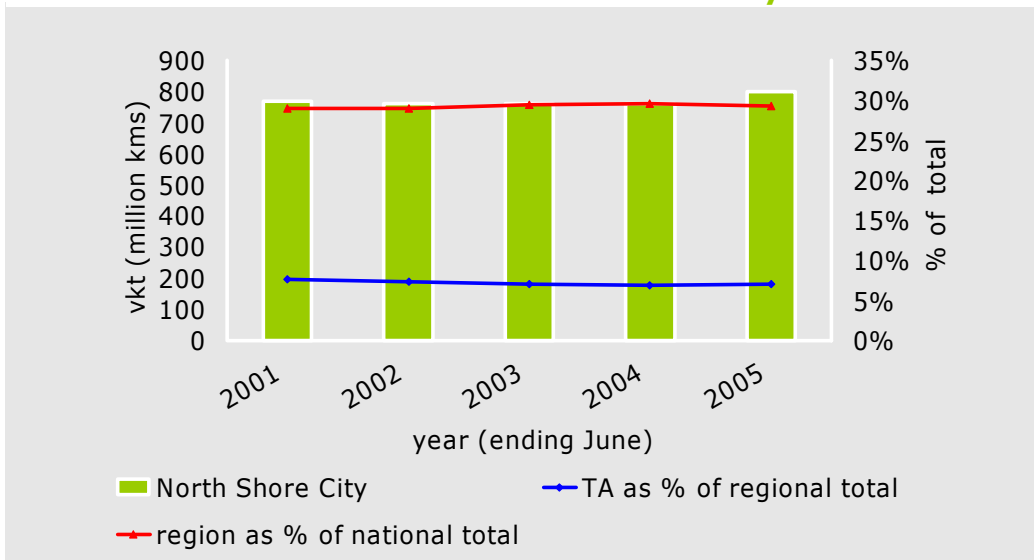
## Use of land transport

### Number of motor vehicles licensed in North Shore City



Source: Motor vehicle register

### Vehicle kilometres travelled in North Shore City



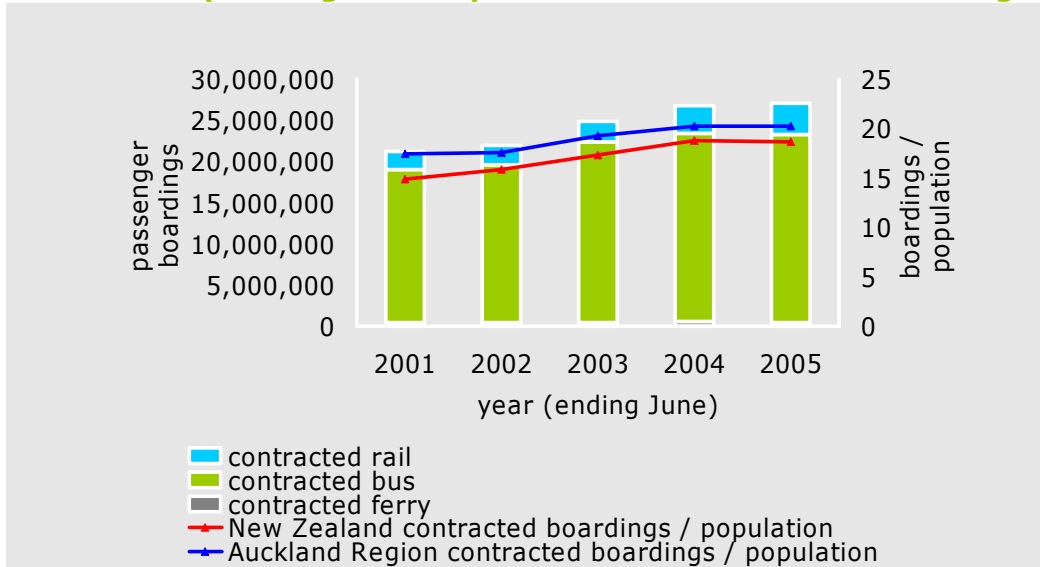
Source: Territorial local authorities

TA VKT = local roads

Regional and national VKT includes local roads and state highways

## Use of land transport (continued)

### Contracted passenger transport services in the Auckland Region

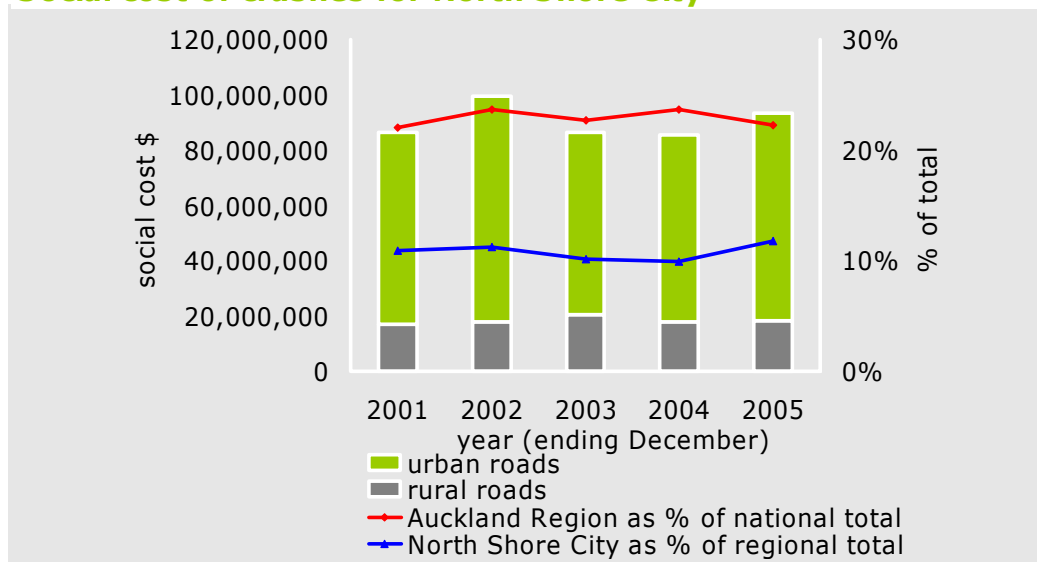


Source: Regional Councils

Commercial passenger transport increased regional boardings by about 23599000 in 2004/05

## Social impacts

### Social cost of crashes for North Shore City



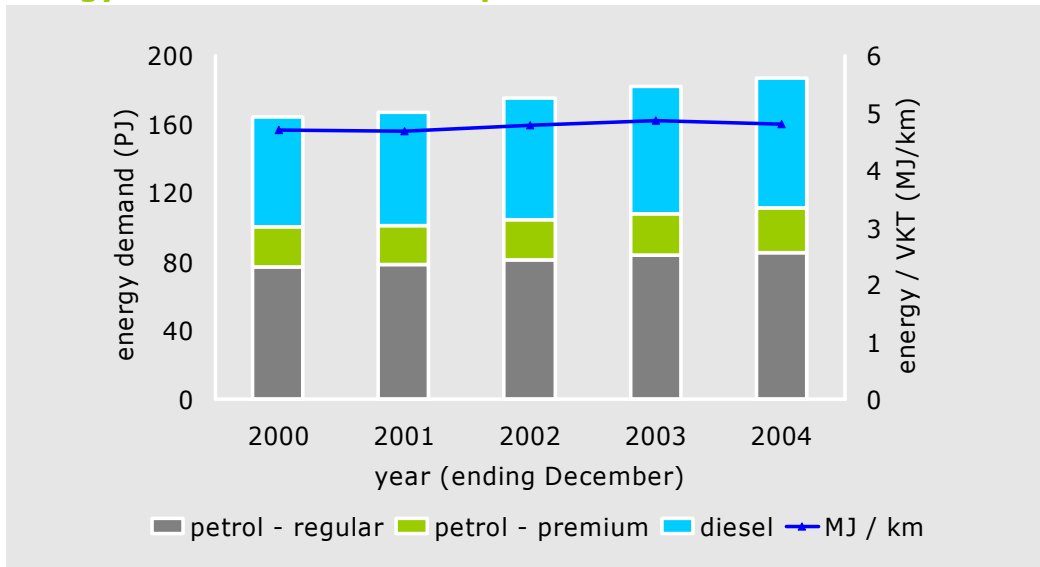
Source: Crash analysis system

For details of road safety, refer to the *Road Safety Issues* report



## Environmental impacts

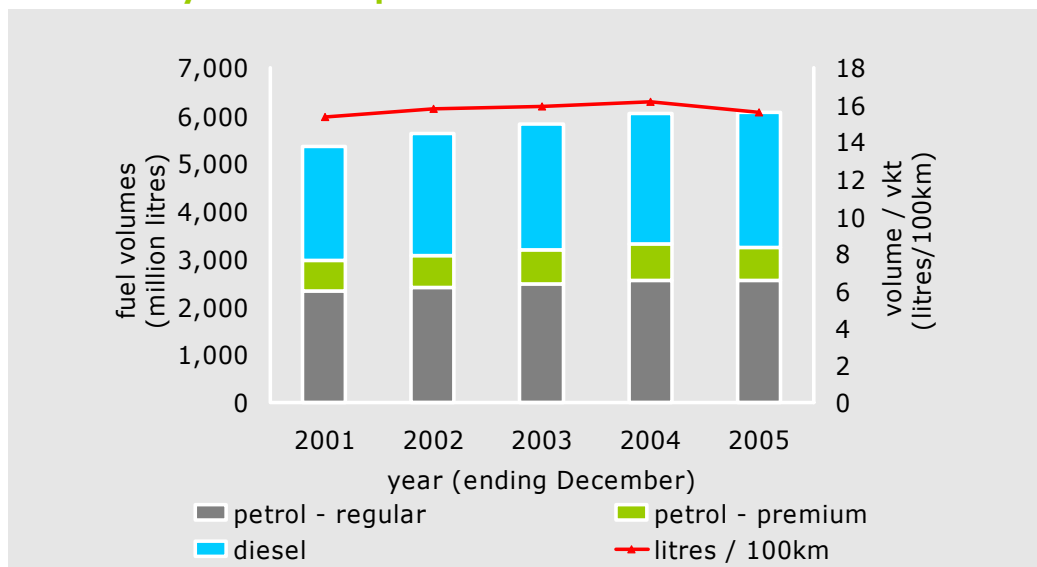
### Energy demand of land transport in New Zealand



Source: MED, June 2005, *NZ Greenhouse Gas Emissions 1990 - 2004 and Statistics NZ Deliveries of Petroleum Fuels by Industry*

1 PJ =  $10^{15}$  joules =  $10^9$  MJ

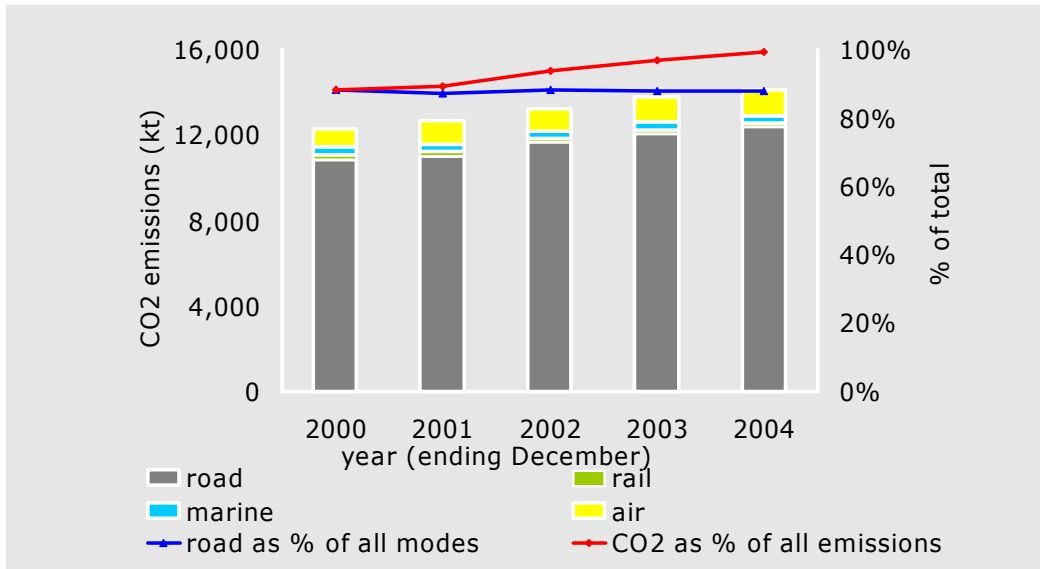
### Fuel use by land transport in New Zealand



Source: Statistics NZ *Deliveries of Petroleum Fuels by Industry*

## Environmental impacts (continued)

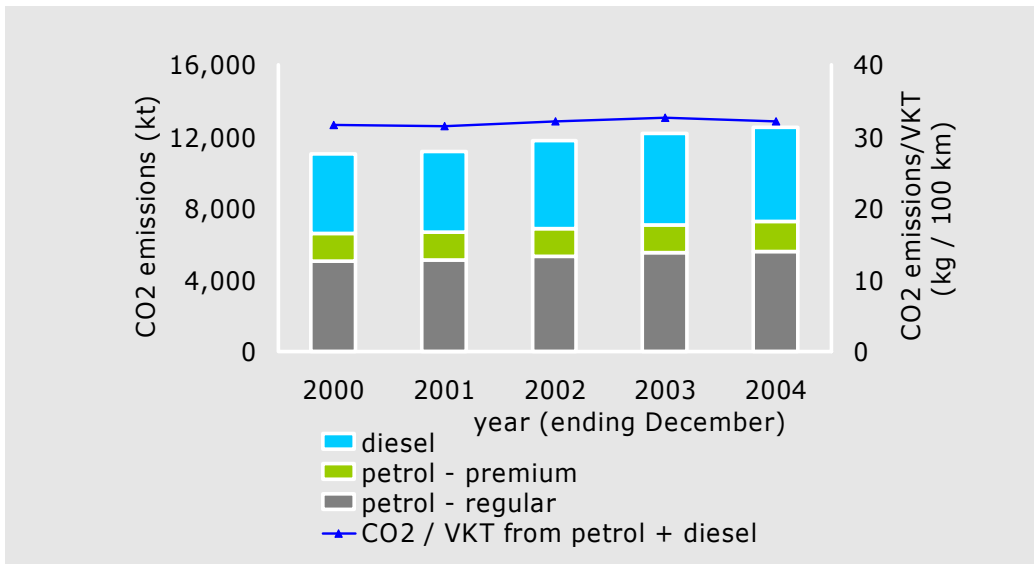
### CO<sub>2</sub> emissions from all transport in New Zealand, by mode



Source: MED, June 2005, *NZ Energy Greenhouse Gas Emissions 1990-2004*

1 kt = 1 kilo tonne = 1000 tonnes

### CO<sub>2</sub> emissions from land transport in New Zealand, by fuel type



Source: MED, June 2005, *NZ Energy Greenhouse Gas Emissions 1990-2004*

1 kt = 1 kilo tonne = 1000 tonnes