

New Zealand

Location:

Oceania: islands in the South Pacific Ocean, southeast of Australia

Climate:

Temperate with sharp regional contrasts

Road network:

92,000 kms

Population:

3,910,000

Currency:

New Zealand dollar (NZD)

GDP: (2001/02)

New Zealand economy = € 61 billion

Total area:

268,680 sq km

Capital:

Wellington



New Zealand Roads

In 2002, the total length of New Zealand's road network was over 92,000 km.

Transit New Zealand plans, develops and maintains the state highway system, and is allocated funds by the government funding agency Transfund New Zealand

Road length by road type – New Zealand

New Zealand road lengths road use and by road type is presented in the following table:

| Road type | Length (km) | Light vehicle travel (million veh-km) | Heavy vehicle travel (million veh-km) | Total vehicle travel (million veh-km) |
|---------------|-------------|---------------------------------------|---------------------------------------|---------------------------------------|
| State highway | 10,783 | 15.1 | 2.5 | 17.6 |
| Rural local | 65,340 | - | - | 5.3 |
| Urban Local | 16,227 | - | - | 13.0 |
| Total | 92,350 | 15.1 | 2.5 | 17.6 |

Road Length by Road Type and Travel Comparisons – New Zealand – 2002
Source: Transit New Zealand unpublished data

State Highway Network

New Zealand's state highway network:

- Measures 10,775 km
- Makes up 11.5% of all New Zealand's roads
- Accounts for 46% of the 34 billion vehicle kilometers traveled each year
- Is valued at \$NS12 billion.

Managing Road Assets

Key issues relating to the physical management of New Zealand's state highway assets are:

• Pavements:

- Determining optimum intervention levels and minimum condition standards
- Implementing predictive modelling
- Determining the impact of changing design standards
- Providing adequate drainage to minimise premature pavement failure
- Building historical data about pavement structure and residual life
- Determining optimum rehabilitation cycles.

• Bridges:

- Introducing a condition assessment methodology that allows for predictive modelling
- Implementing an enhanced bridge management information system
- Prioritising bridge maintenance works.

• Minor Structures:

- Developing more comprehensive risk management and condition assessment processes
- Reviewing the allocation of management responsibilities
- Improving completeness and accuracy of asset inventory.

• Corridor Assets:

- Optimising intervention strategies
- Reviewing information needs to effectively manage corridor assets
- Developing improved materials and new products (new signs and markings).

- **Drainage:**

- Improving the overall standard of surface drainage and culverts
- Improving knowledge of the scope, condition and performance of drainage assets
- Introducing a risk based approach for the lifecycle management of drainage assets.

AUSTROADS

PIARC Involvement

Australia is a National Member of PIARC through the Commonwealth Department of Transport and Regional Services. There are sixteen collective members in Australia, which include all Australian State and Territory transport authorities.

Austrroads is the association of Australian and New Zealand road transport and traffic authorities. Austrroads provides a forum for road authorities in Australia and New Zealand to work together to promote national uniformity and harmony, eliminate unnecessary duplication, and identify and promote improved practice.

Austrroads International Committee (PIARC) is recognised by the World Road Association (PIARC) and the Australian Government as the National Correspondent Organisation for PIARC in Australia and is charged with managing Australia's involvement, and coordinating it with that of New Zealand.

Austrroads Membership

Austrroads members are the six State and two Territory road transport and traffic authorities and the Commonwealth Department of Transport and Regional Services in Australia, the Australian Local Government Association and Transit New Zealand.

Austrroads aims to provide strategic direction for the integrated development, management and operation of the Australian and New Zealand road system. The Austrroads mechanism and network enables the involvement of all Australian road agencies in a coordinated way. Through Austrroads, Australia's and New Zealand's PIARC activities are fully integrated into the Austrroads work program and contribute significantly to the achievement of Austrroads strategic objectives.

Austrroads undertakes the development and management of a project-based work program spread over the following areas: road design, construction, maintenance and operation, sustainable and integrated transport, intelligent transport technology, access and mobility issues, traffic management and engineering, pavement and bridge technology, asset management and productivity issues, and road safety.

Austrroads is recognised for its technical manuals in roads and traffic engineering and recently made freely available all of its research-type reports in electronic format from its website.

Austroads publications on the web:

http://www.austroads.com.au/austroads_v2/index.htm?public

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Austroads member authority web sites – New Zealand

Transit New Zealand
<http://www.transit.govt.nz>

Austroads member authority web sites – Australia

Roads and Traffic Authority New South Wales
<http://www.rta.nsw.gov.au>

VicRoads
<http://www.vicroads.vic.gov.au>

Department of Main Roads Queensland
<http://www.mainroads.qld.gov.au>

Main Roads Western Australia
<http://www.mainroads.wa.gov.au>

Department of Infrastructure, Planning and Environment, Northern Territory
<http://www.nt.gov.au/ipe/dtw>

Department of Infrastructure, Energy and Resources, Tasmania
<http://www.transport.tas.gov.au>

Commonwealth Department of Transport and Regional Services
<http://www.dotars.gov.au>

Transport South Australia
<http://www.transport.sa.gov.au>

ACT Department of Urban Services
<http://www.act.gov.au/urbanservices>

Australian Local Government Association
<http://www.alga.com.au>