

# Overview of Transport, Air Quality and Climate December 2008



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**Rick Barber, Manager Transport Relationships  
New Zealand Transport Agency**

## Who are the National Transport Agencies?

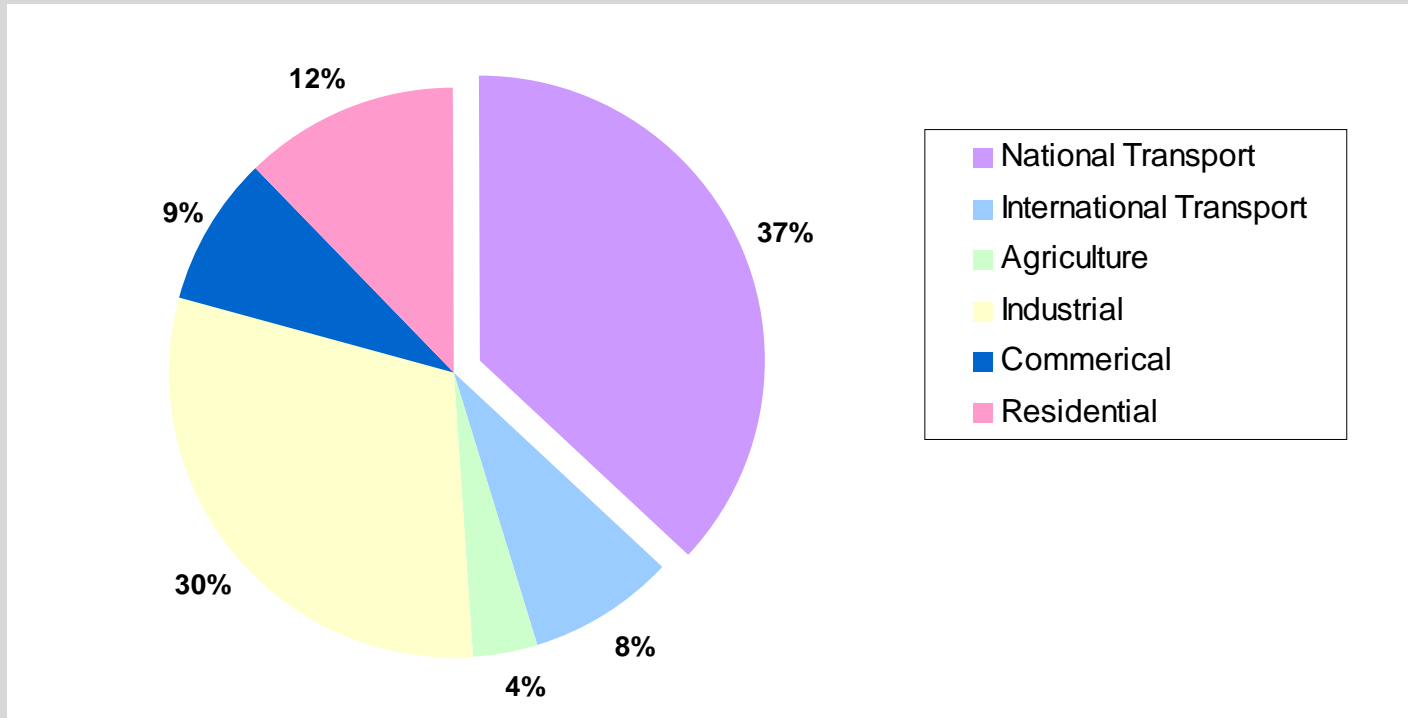
- **Ministry of Transport**
  - **Maritime New Zealand**
  - **Airways Corporation**
- **New Zealand Transport Agency**
  - **merger between Land Transport NZ and Transit**

## Agencies Working Together - Agreed Objective

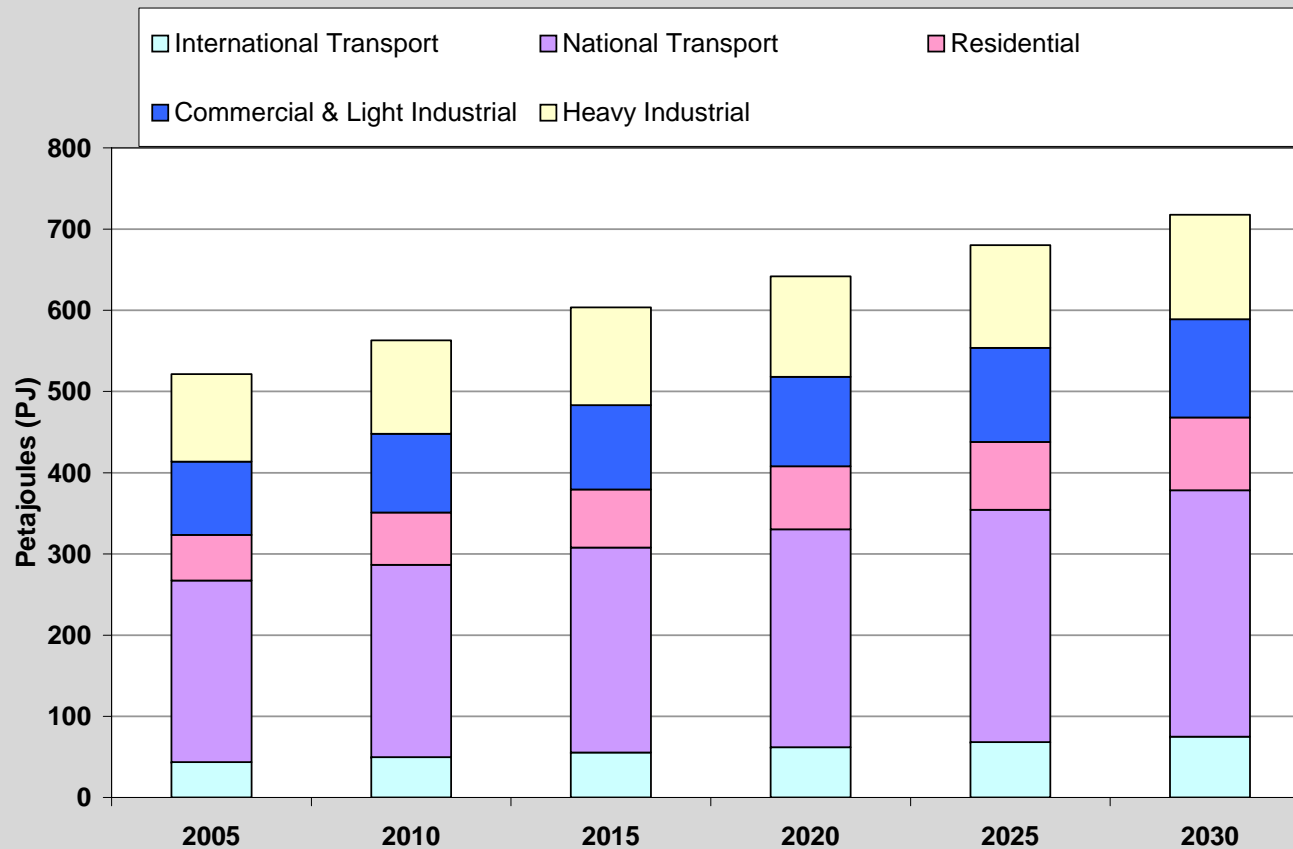
*To align environmental transport work programmes to reduce the harmful and environmentally damaging emissions from the transport fleet, with priority given to initiatives that contribute to the Air Quality National Environmental Standards (AQNES) and climate change outcomes.*



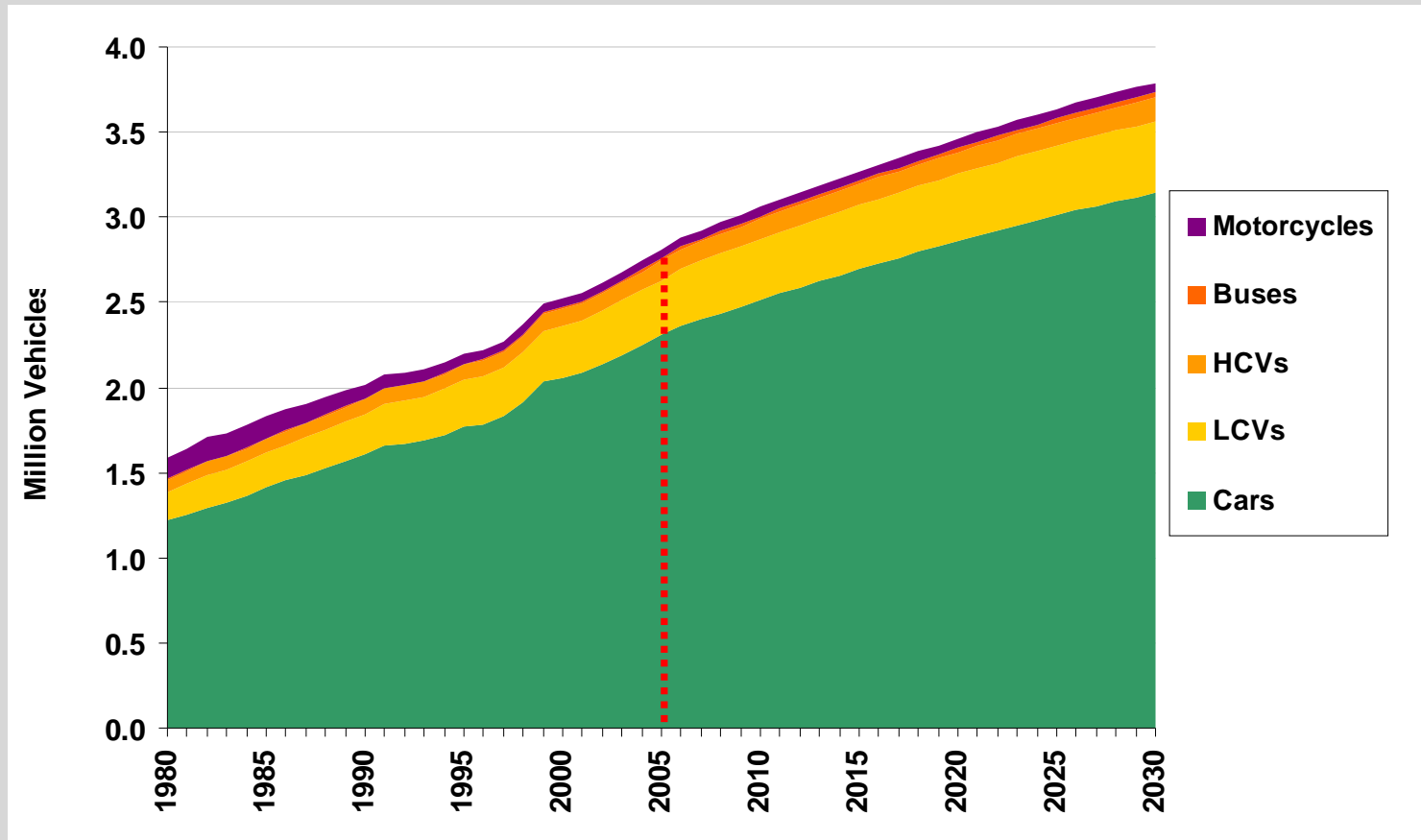
# New Zealand Consumer Energy Consumption by Sector



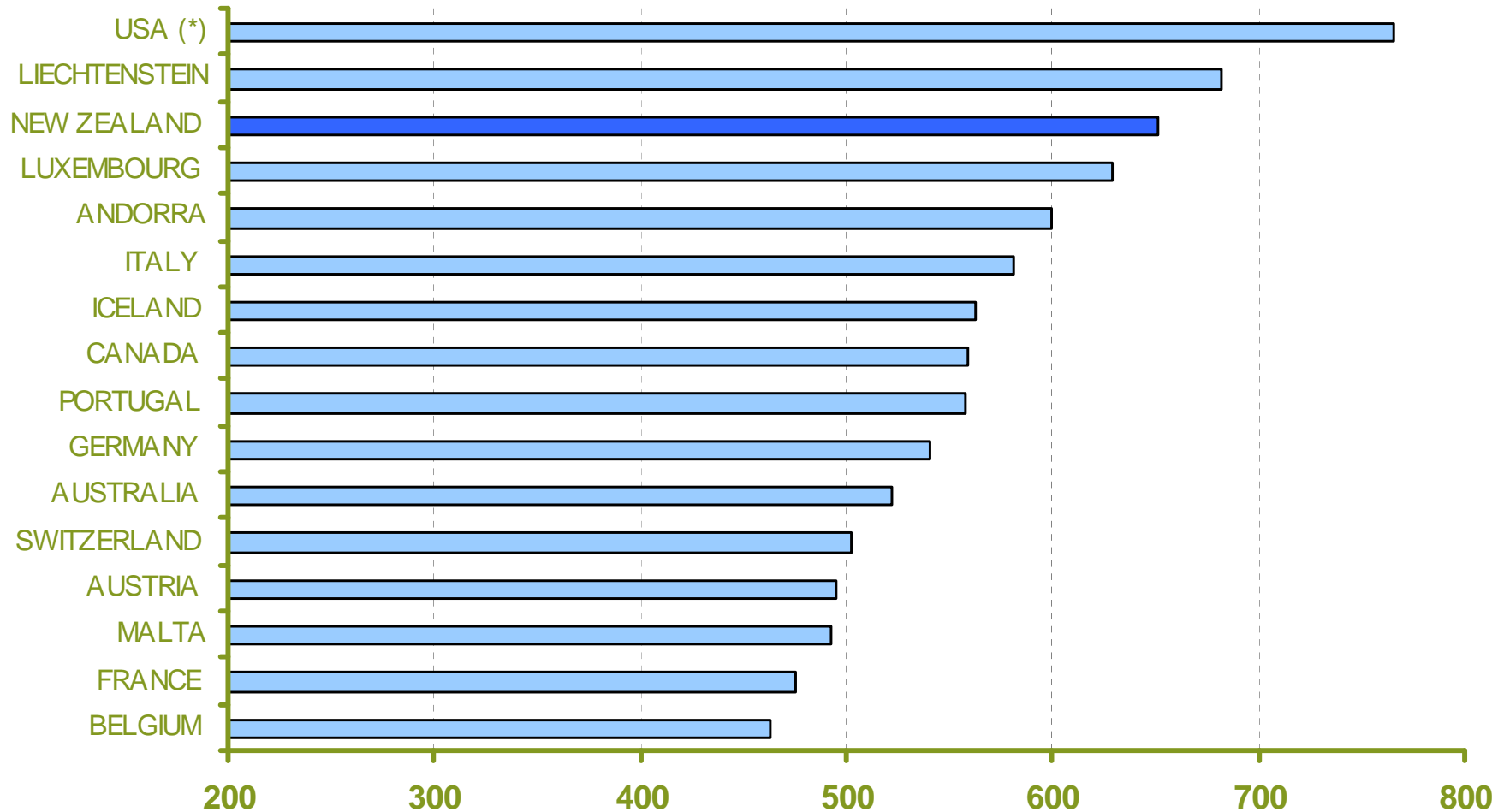
# New Zealand Transport Energy Demand



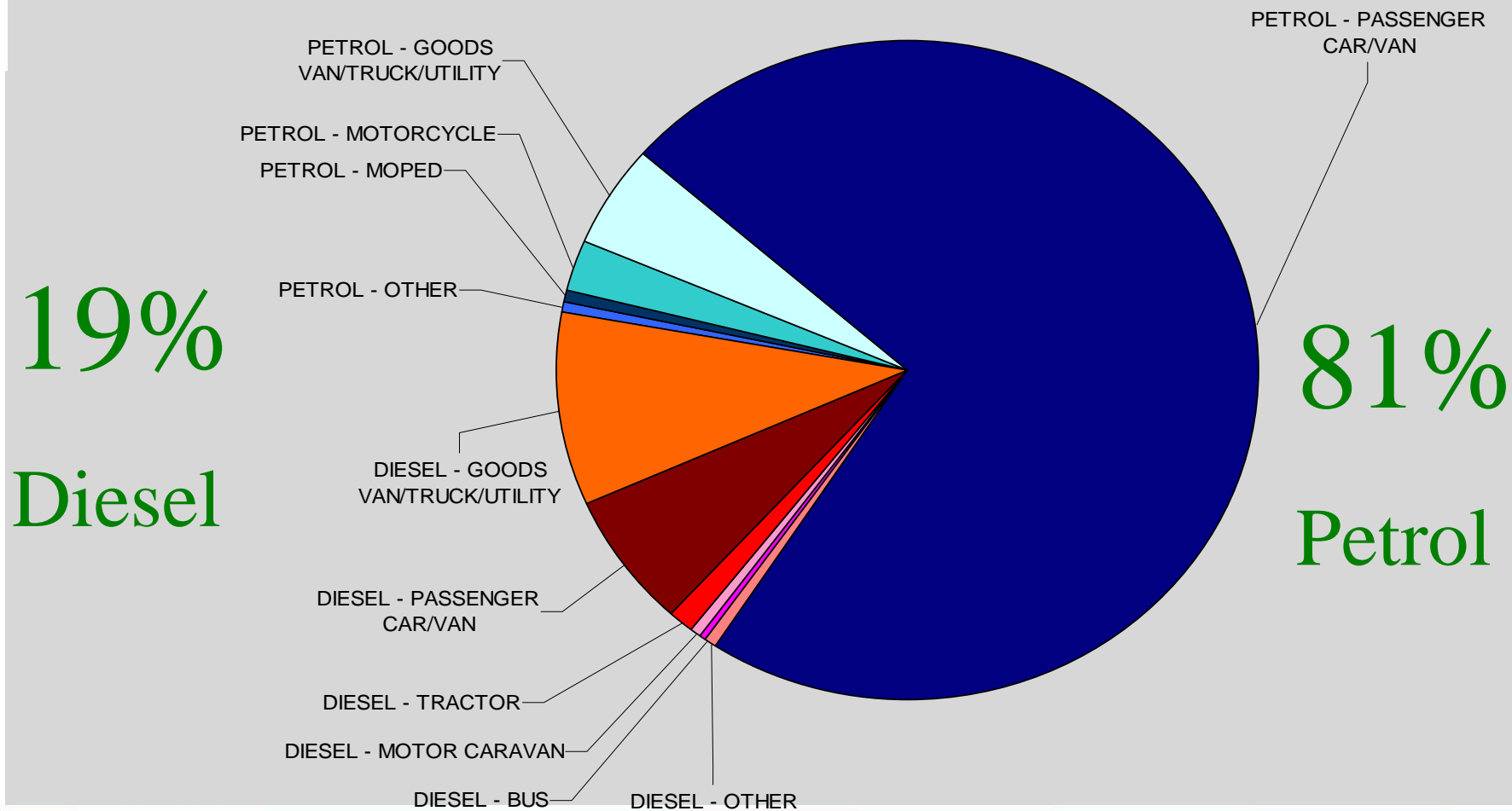
# New Zealand Licensed Vehicle Fleet



## Vehicles per 1000 population, 2002



# New Zealand Fleet make up

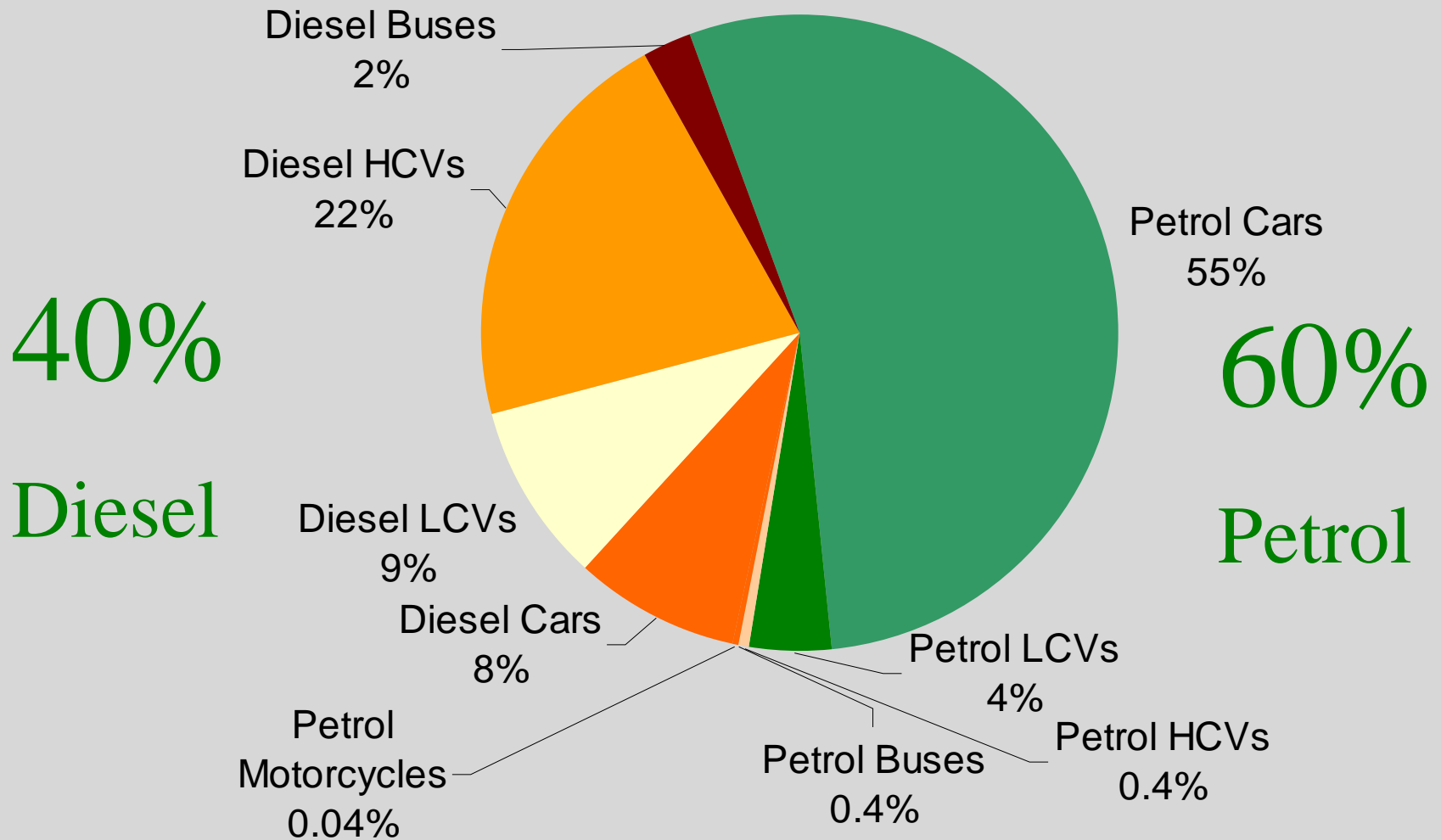


19%  
Diesel

81%  
Petrol



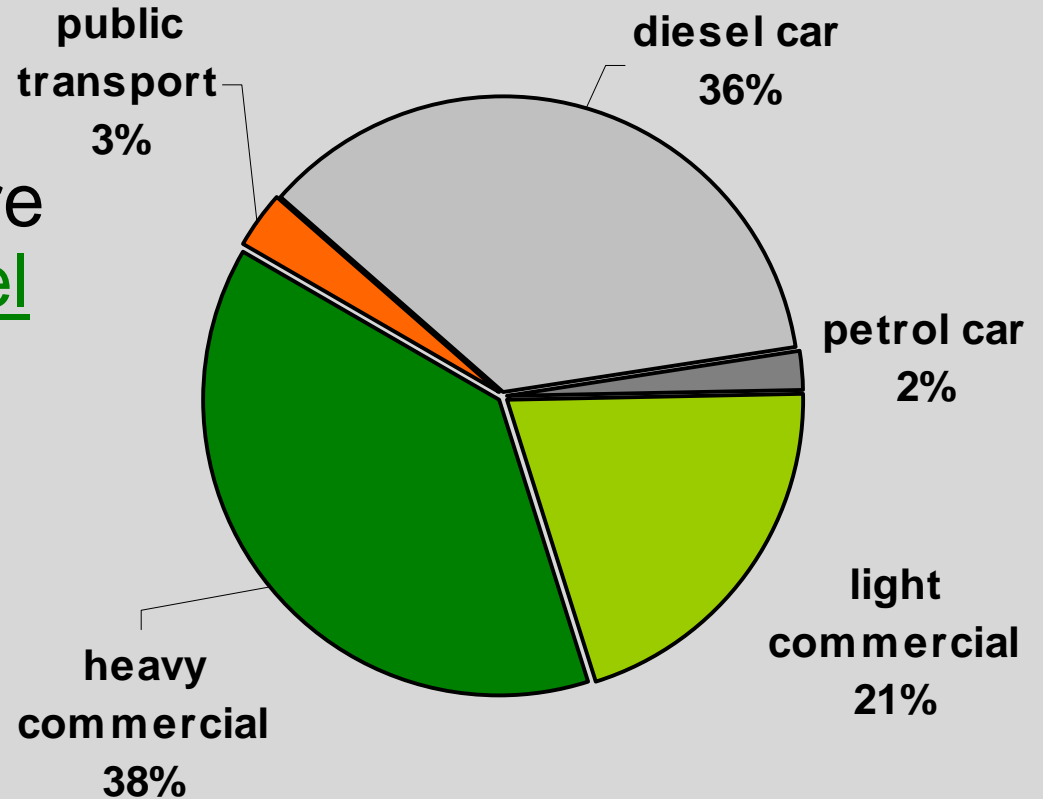
# On-Road Motor Vehicle Energy Use (Modelled)



# PM<sub>10</sub> Contribution from Diesel Vehicles in Auckland

Air pollution costs are dominated by diesel vehicles

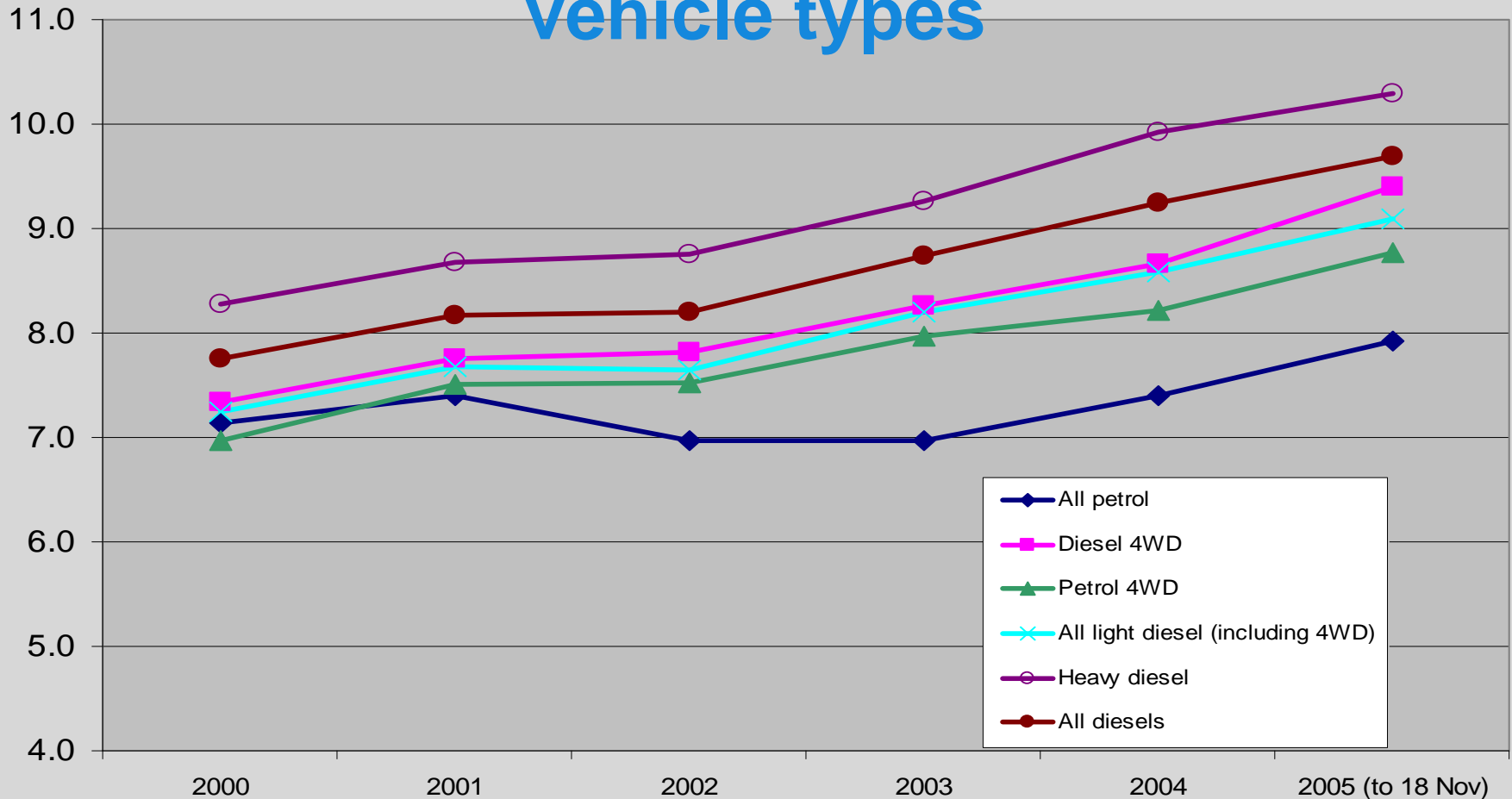
~91%!



# Imports of second hand vehicles by fuel and weight (2005)

|                           | 2005           | Used (%) |
|---------------------------|----------------|----------|
| Used Light Petrol         | 134,853        | 63%      |
| New Light Petrol          | 77,593         |          |
| Used Light Diesel         | 25,293         | 56%      |
| New Light Diesel          | 20,265         |          |
| Used Heavy Petrol         | 54             | 77%      |
| New Heavy Petrol          | 16             |          |
| Used Heavy Diesel         | 5,165          | 54%      |
| New Heavy Diesel          | 4,382          |          |
| <b>Total all vehicles</b> | <b>269,626</b> |          |

# Average age of used imports for different vehicle types



## Actions taken.....

- **Vehicle Fleet Emissions Model**
- **Vehicle Exhaust Emissions Rule**
- **Visible smoke checks**
- **Choke the smoke campaign**
- **Walking school bus campaign**



# Vehicle Exhaust Emissions Rule 2006

- Minimum emissions standards for imported used vehicles
- Update existing new-vehicle exhaust emissions standards
- In-service/border emissions tests
- Prohibition on tampering
- Communications

## Visible smoke check

- Identifies the worst vehicles – those that would fail the 10 sec “smoky vehicle” Rule
- We acknowledge that most pollutants are invisible, but smoky vehicles are also polluting
- Built a foundation for further emissions testing
- Improves understanding that excessive emissions are not acceptable
- Test commenced 27 October 2006
- So far, no reported problems and few reported fails.

## Euro 4 implementation dates

Implementation date for the emissions standard known as Euro 4 for diesel-powered heavy vehicles is delayed by one year

| Europe    |                | Australia |                | New Zealand (2003) |                | New Zealand (New Rule) |                |
|-----------|----------------|-----------|----------------|--------------------|----------------|------------------------|----------------|
| New Model | Existing Model | New Model | Existing Model | New Model          | Existing Model | New Model              | Existing Model |
| Oct 06    | Oct 08         | Jan 07    | Jan 08         | Jan 07             | Jan 08         | Jan 08                 | Jan 09         |



# Choke the Smoke Campaign

- Publicity
- Very high “brand recognition” - 36% recall in survey
- Motor Trade Association say it is the most successful campaign they have been involved with

**GET YOUR CAR TUNED.**

**CHOKE THE SMOKE.**

[www.chokethesmoke.govt.nz](http://www.chokethesmoke.govt.nz)



**There's a little bit of your untuned car  
in every body.**

 Ministry of Transport  
TE MANATŪ WAKA

**GET YOUR CAR TUNED. CHOKO THE SMOKE.**  
[www.chokothemoke.govt.nz](http://www.chokothemoke.govt.nz)

 Ministry of Transport  
TE MANATŪ WAKA

**For petrol vehicles the solution to reducing emissions is likely to be to use cars less!**



An example of this is the “walking school bus” campaign.

## Next Steps.....

- Efficiency studies
- More efficient vehicles
- Biofuels
- Electric vehicles
- Fleet Commitment Work Programme





## To Achieve.....

- **International Obligations**
- **Aspiration National targets;**
  - by 2040, our per capita transport greenhouse gas emissions are reduced by half of those in 2007
  - we will be one of the first countries in the world to widely deploy electric vehicles



The end

