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COUNTRY REPORT

OUTLINE:

- Policy statement in the Ninth Malaysia Plan (2006-2010)
 - Clean Air Action Plan
 - Public Transport
- Air Quality Monitoring
 - Emission Load and Pollutant Sources
 - Updates on Air Quality Status
- Enforcement
 - Vehicle Emission Control and I/M
- Public Transportation
- Road Safety and Maintenance
- Challenges



POLICY STATEMENT ON CLEAN AIR ACTION PLAN

NINTH MALAYSIA PLAN (2006-2010)

“A new Clean Air Action Plan will be developed and implemented to improve air quality”.

Strategies:

- Reducing emission from motor vehicles
- Reducing emission from industries
- Tackling the haze problem
- Enhancement of human capital and capacity building
- Public Awareness



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AIR QUALITY MONITORING

51 Automatic air quality monitoring stations throughout the country including road site of major cities.

**Parameters monitored:
PM₁₀, CO, O₃, NO_x, SO₂, Pb.**



MALAYSIA AIR EMISSION LOAD AND POLLUTANT SOURCES 2007

Pollutant	Overall emission load (tonnes)	Motor Vehicles	Industries	Power Plants	Others
CO	1,774,396	98%	1%	1%	-
SO ₂	158,120	16%	23%	41%	20%
PM	38,763	28%	40%	14%	18%
NO _x	563,078	70%	12%	16%	2%

Source : DOE





Diesel vehicle

**Emission from motor vehicles
is a significant source of air
pollution in especially
urban areas**

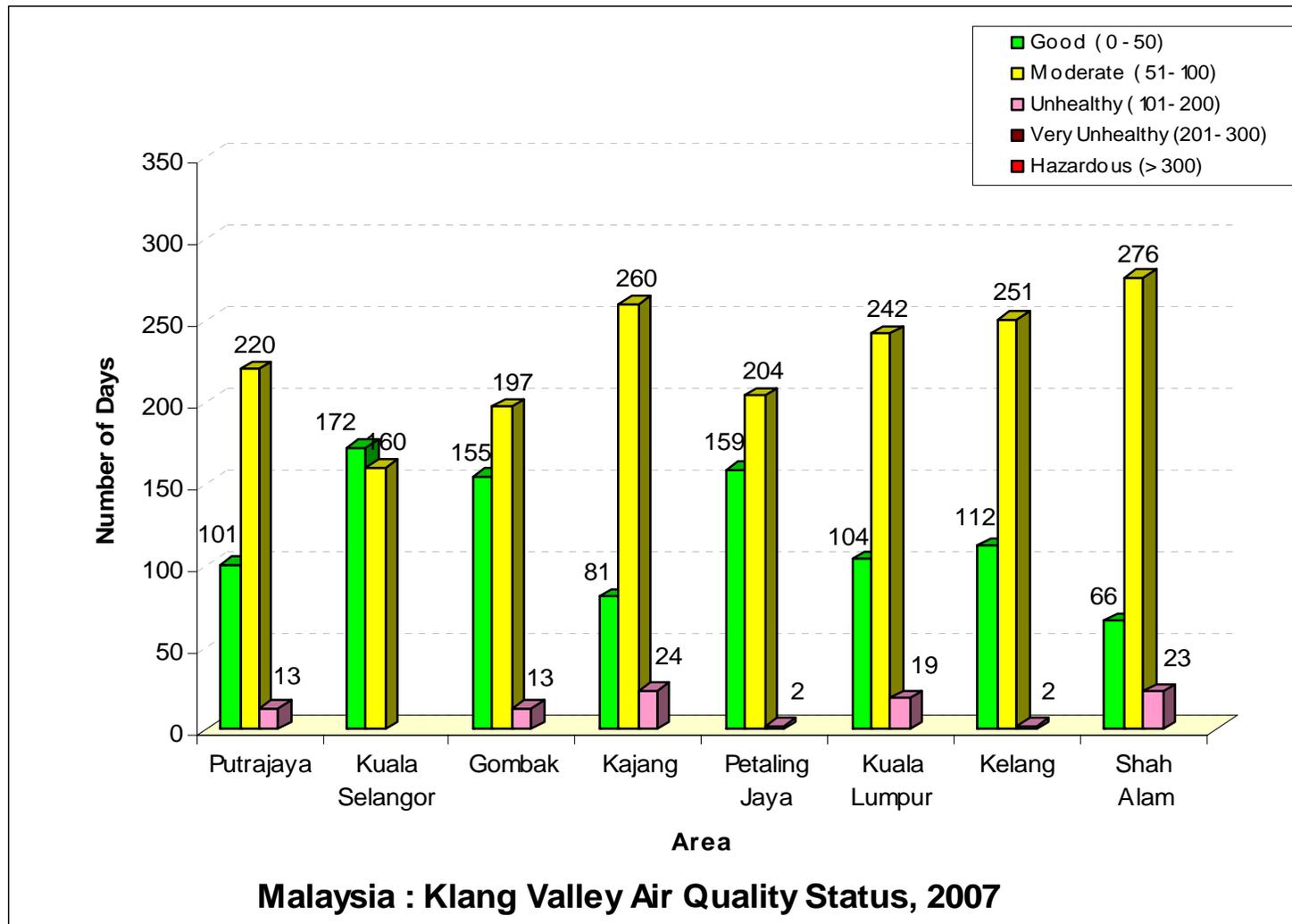


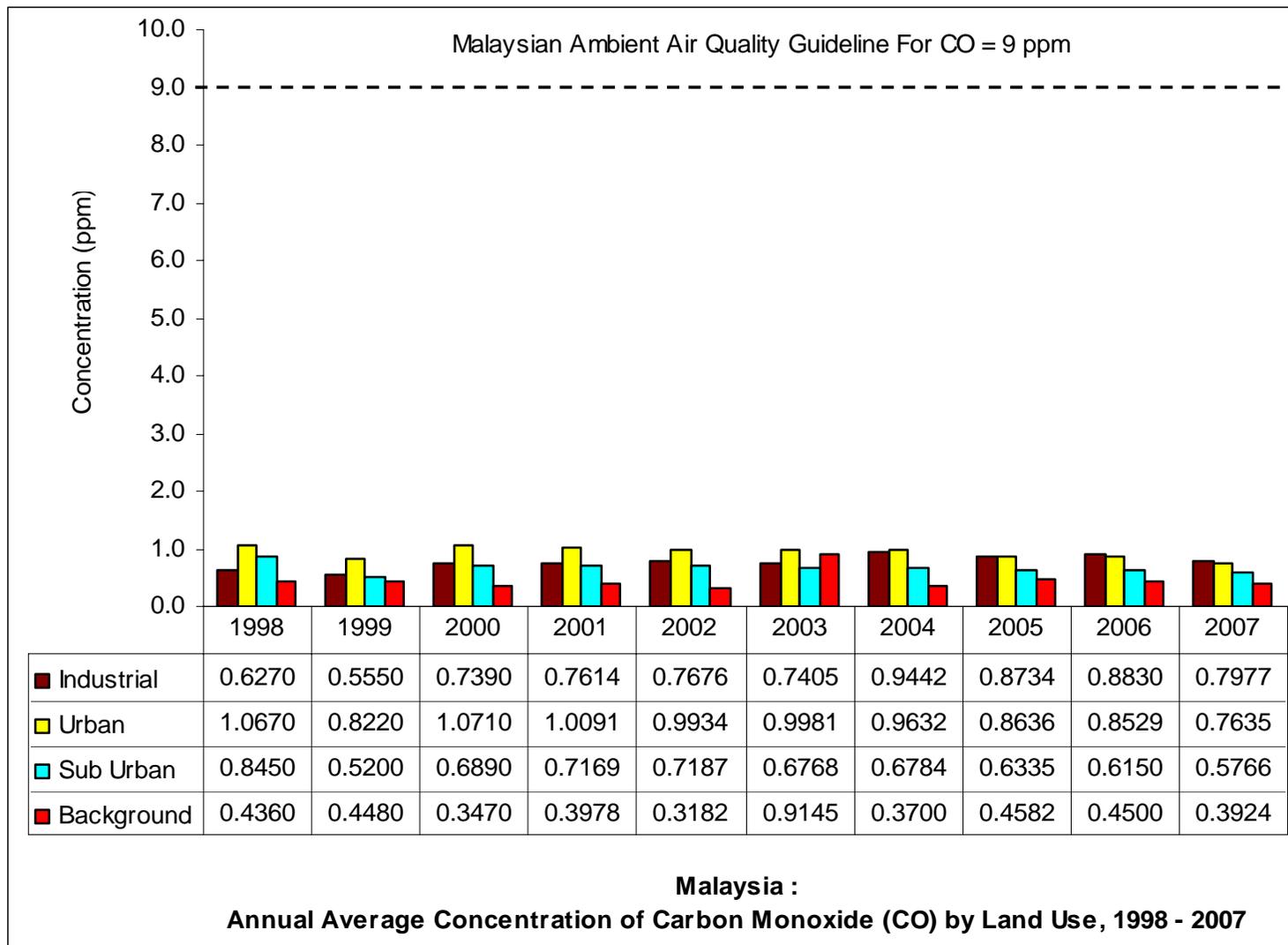
Motorcycle

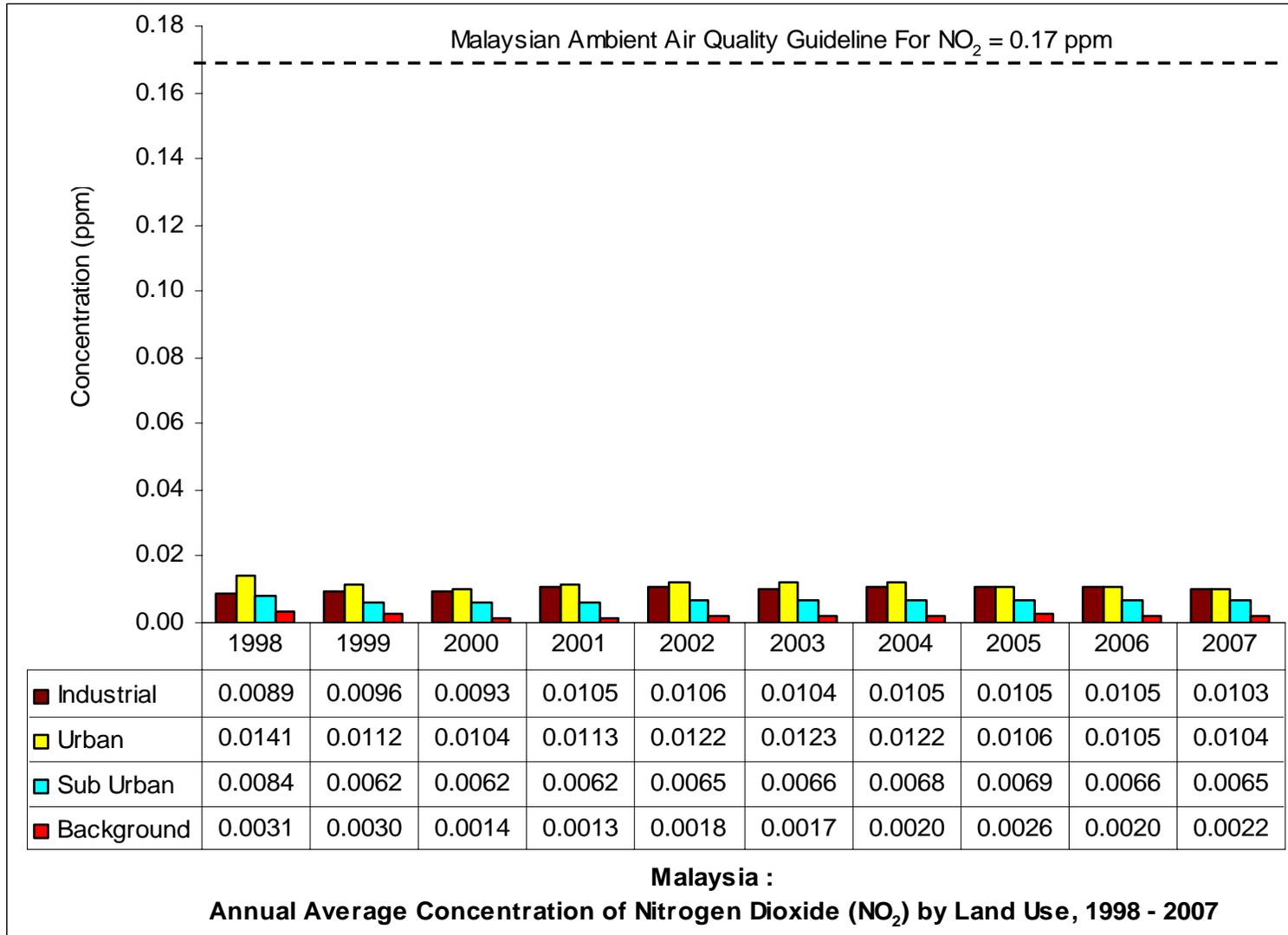


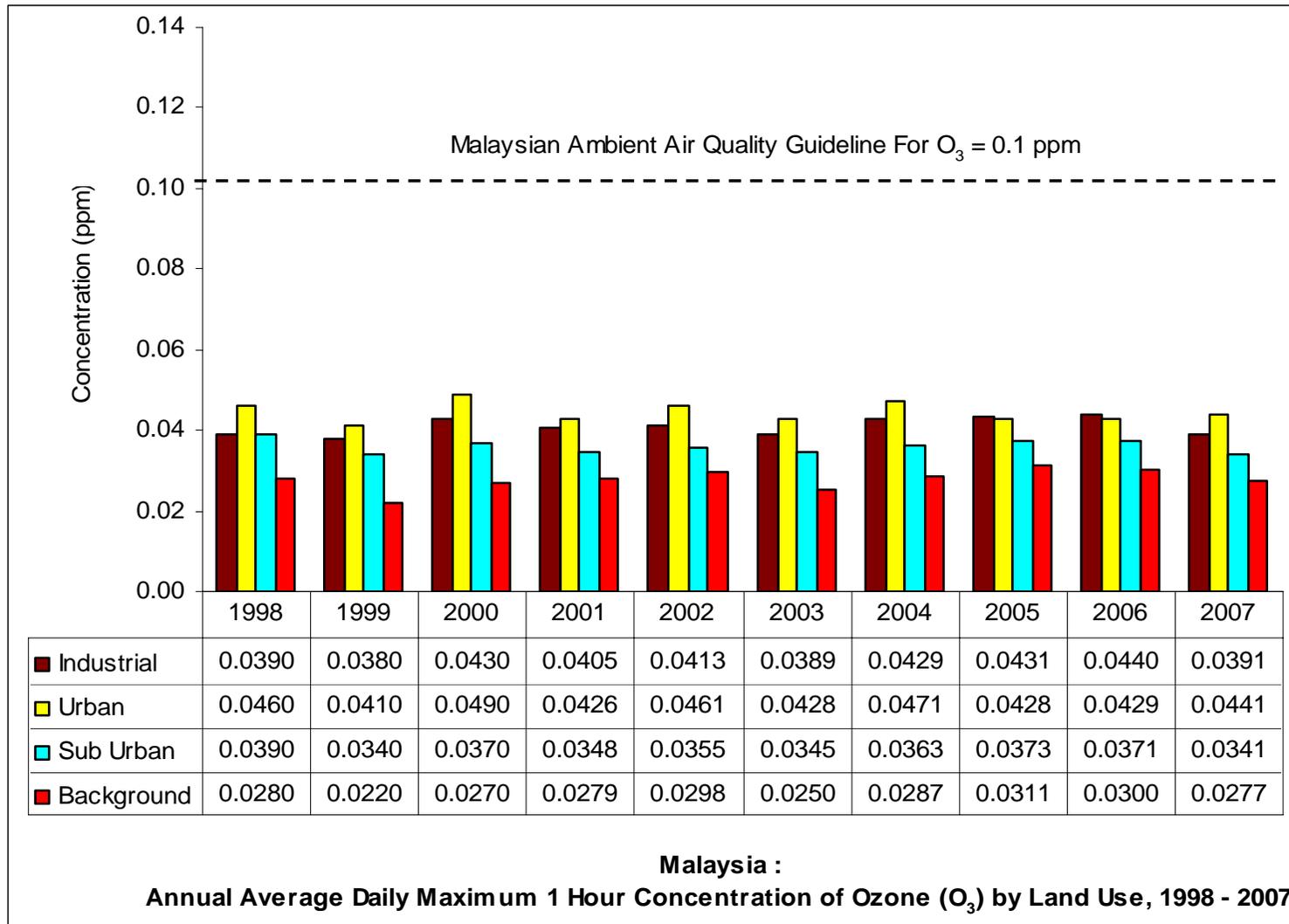
Petrol vehicle



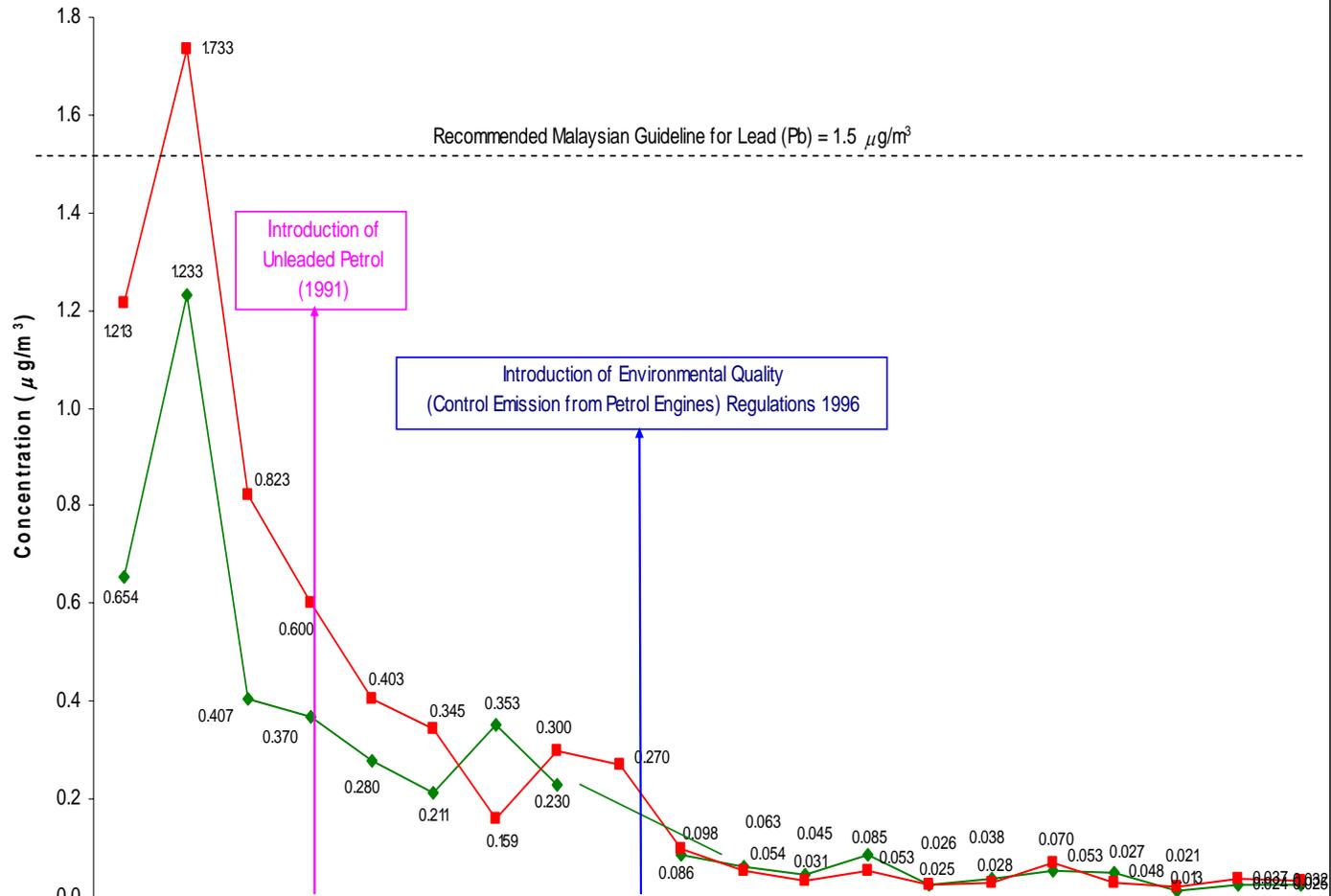








Malaysia : Air Quality Trend : Ambient Lead Concentration in Klang Valley, 1988 - 2007



ENFORCEMENT

- Environmental Quality (Control of Emission from Diesel Engines) Regulations 1996
- Environmental Quality (Control of Emission from Petrol Engines) Regulations 1996
- Environmental Quality (Motor Vehicle Noise) Regulations 1987



VEHICLE EMISSION CONTROL AND I/M

- EURO 1 Standards for diesel vehicles and EURO 2 for petrol vehicles. Working towards EURO 2 and EURO 3 respectively.
- Mandatory six monthly inspection for safety and emission for commercial vehicles.



REDUCE EMISSION FROM MOTOR VEHICLES

CLEANER FUEL

- Lead free gasoline since 2000
- ENVO Diesel (5% palm oil + 95% petroleum diesel) 21 March 2006
- EURO 2M Fuel (2007)

ALTERNATIVE FUEL

- NGV promoted since 1989, currently 31,697 NGV on the road



BUDGET TO IMPROVE PUBLIC TRANSPORTATION

- Under 9th Malaysia Plan (2006 – 2010) RM31.8 billion was allocated for transport sector.
- Additional RM35 billion was allocated under Budget 2009 to further improve the efficiency of public transportation for the period 2009 to 2014.



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IMPROVING PUBLIC TRANSPORTATION

- i. Establishment of single Public Transport Commission (PTC) to ensure :
 - safe, reliable, affordable, integrated, accessible and sustainable Public Transport System.
 - Modal shift from private to public transport by regulating Road Area Pricing (RAP).



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IMPROVING PUBLIC TRANSPORTATION

ii. Improve Rail Transportation

- Under 9th Malaysia Plan, 71 rail projects approved to :
 - increase capacity of existing rail services - procured 35 train carriages (LRT) & 13 EMU sets for Malaysia Railway Commuter
 - build new double track rail projects
 - extension of Light Rail Transit (LRT) routes



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IMPROVING PUBLIC TRANSPORTATION

iii. Integrated Transport Terminal (ITT)

- to replace the existing congested and non integrated Pudu Raya bus terminal
- The new ITT will integrate ERL, LRT, Commuter facilities and services and transit points for buses and taxis



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IMPROVING PUBLIC TRANSPORTATION

iv. Formation of Rangkaian Pengangkutan Integrasi Deras Sdn. Bhd. (Rapid KL) :

- is tasked to integrate the light rail and bus transport system.
- currently, 1.5 million people drive to the city daily in Klang Valley but only 500,000 use public transport. Recent study indicates only 15% use public transport and 85% use private vehicle as main mode of transport.
- To encourage people to use public transport, Rapid KL extended more than 166 bus routes to cater 4 million passenger a week.



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IMPROVING PUBLIC TRANSPORTATION

v. Formation of Rapid Penang Sdn. Bhd. (Rapid Penang) :

- subsidiary transport company of RapidKL
- start operation 31 July 2007 to provide a comfortable, affordable and reliable public transport service for Penang
- currently provide 33 routes to cater 46,000 passengers
- by end 2009, additional 14 routes to cater 120,000 passengers
- provide shuttle services for inter corridor links on both the island and mainland



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IMPROVING PUBLIC TRANSPORTATION

vi. Implementation Safety, Health And environment (SHE)

- a. Instill safety culture as priority of all transport operators in order to minimize accidents and fatalities involving commercial vehicle.
- b. Instill industry wide best practices pertaining to safety for transport operators such as :
 - Management responsibility
 - Driver recruitment
 - Vehicle design standards, maintenance, road worthiness and operational efficiency.



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- c. Instill public confidence on the safety and reliability of public transport services.
- d. Risk and journey management to minimize risk of accidents.
- e. Comprehensive data management of drivers, vehicles, complaints, etc.



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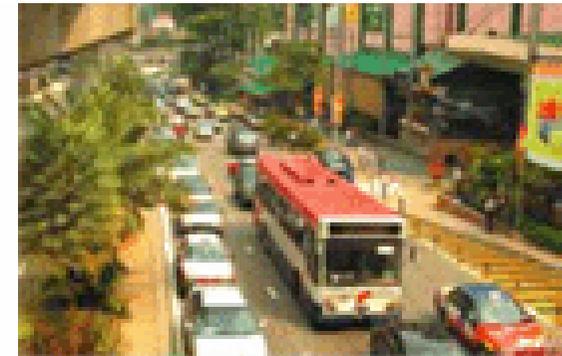
TRAFFIC MANAGEMENT

Toll

**Integrated Transport Information System (ITIS) -
to monitor traffic flow & make available to road
users in Klang Valley (traffic diversion)**

Congestion charges (proposed)

Park and Ride



**Integrated Transport
Information System - ITIS**
A New Milestone in Traffic Management



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ROAD SAFETY

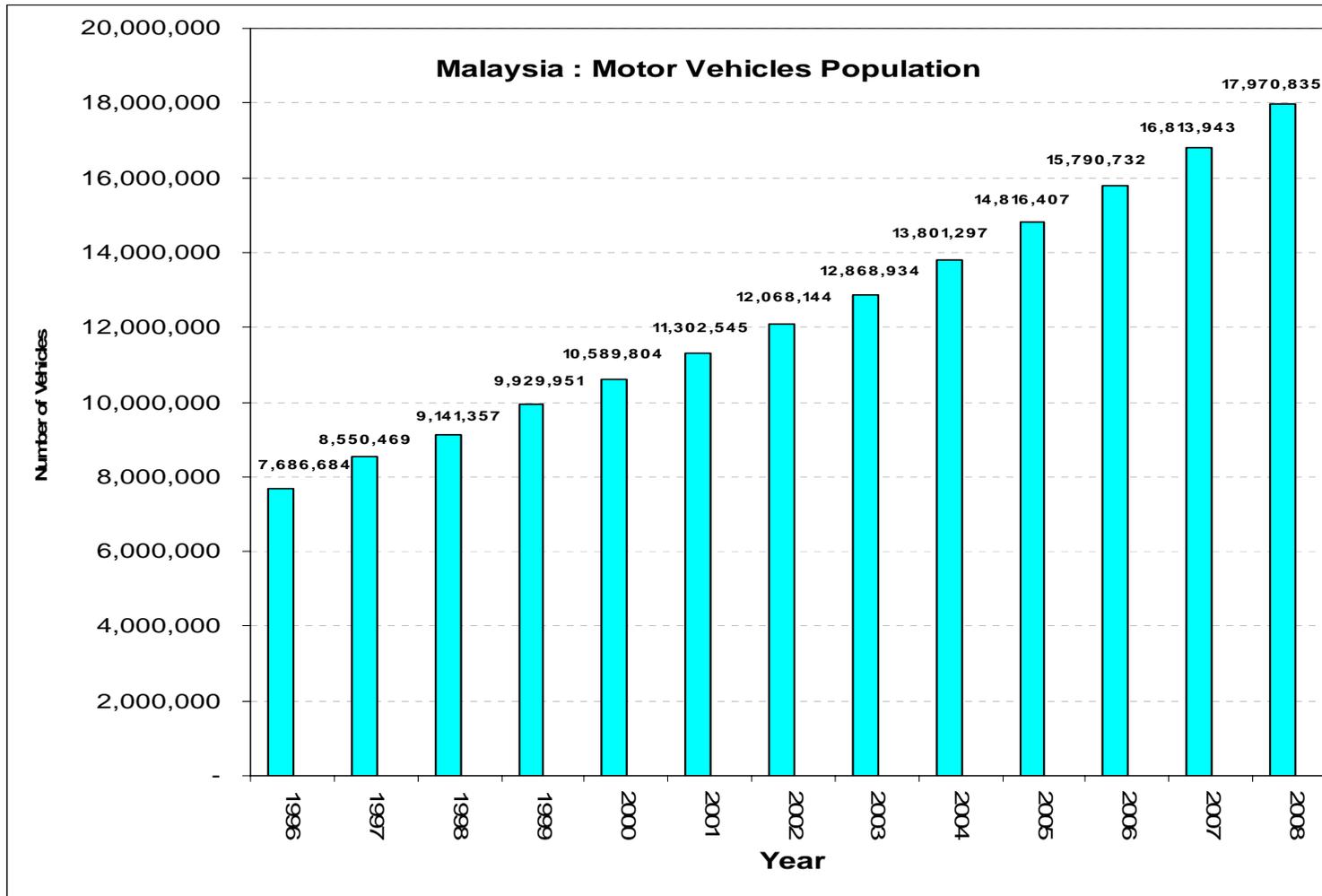
Department Of Road Safety
Established January 2005

Road Safety Strategic Plan 2006-2010

- reduce current fatality of 4.2 deaths per 10,000 vehicles to 2 deaths per 10,000 vehicles by 2010;
- Promote public transport as main mode of transportation;
- Advocacy and awareness on safe way to travel - modal shift
 - Motorcycle → car (17 times safer)
 - Motorcycle → bus (30 times safer)
 - Motorcycle → rail (300 times safer)
 - Motorcycle → air (600 times safer)



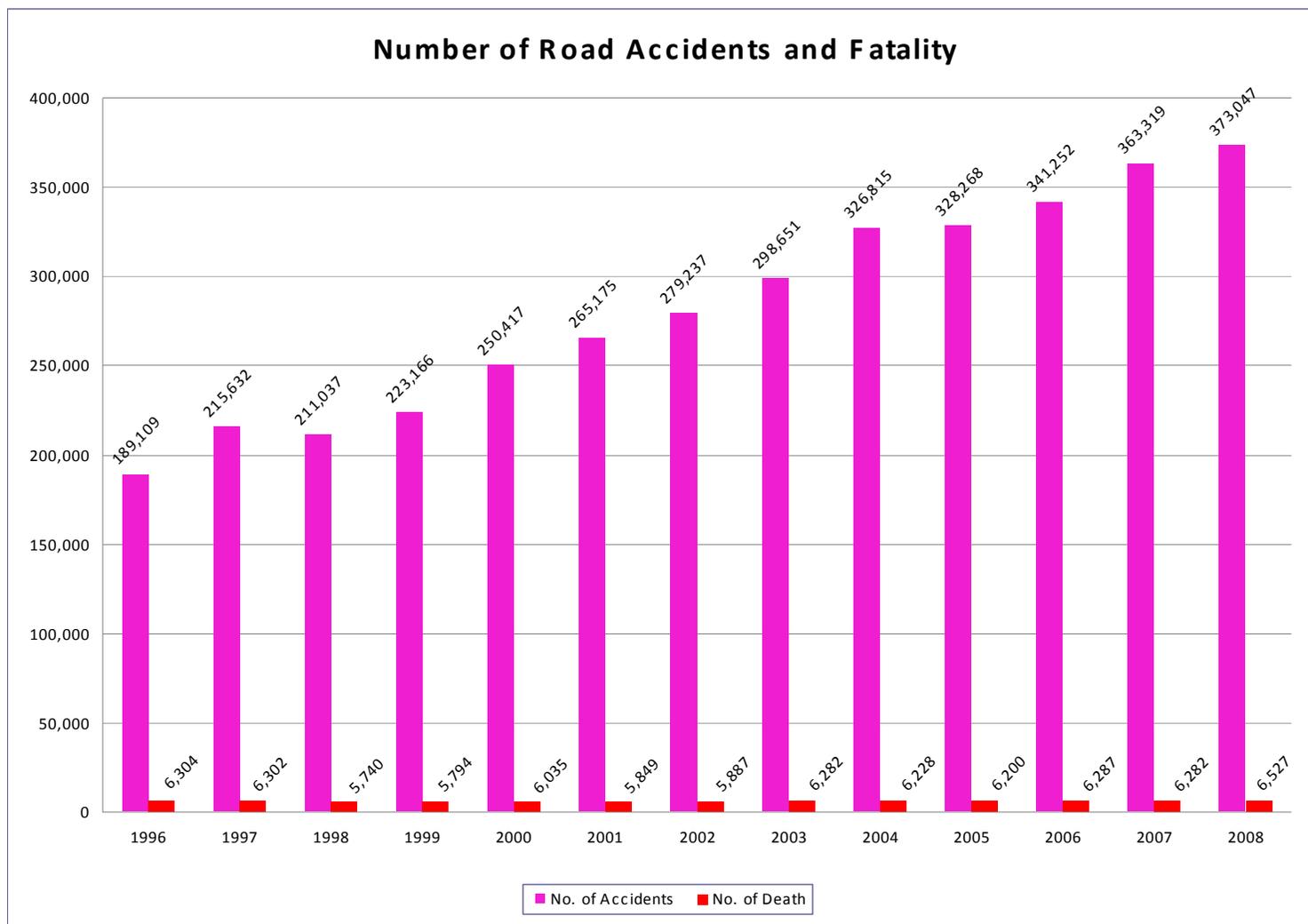
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Source : Road Transport Department (RTD), Malaysia



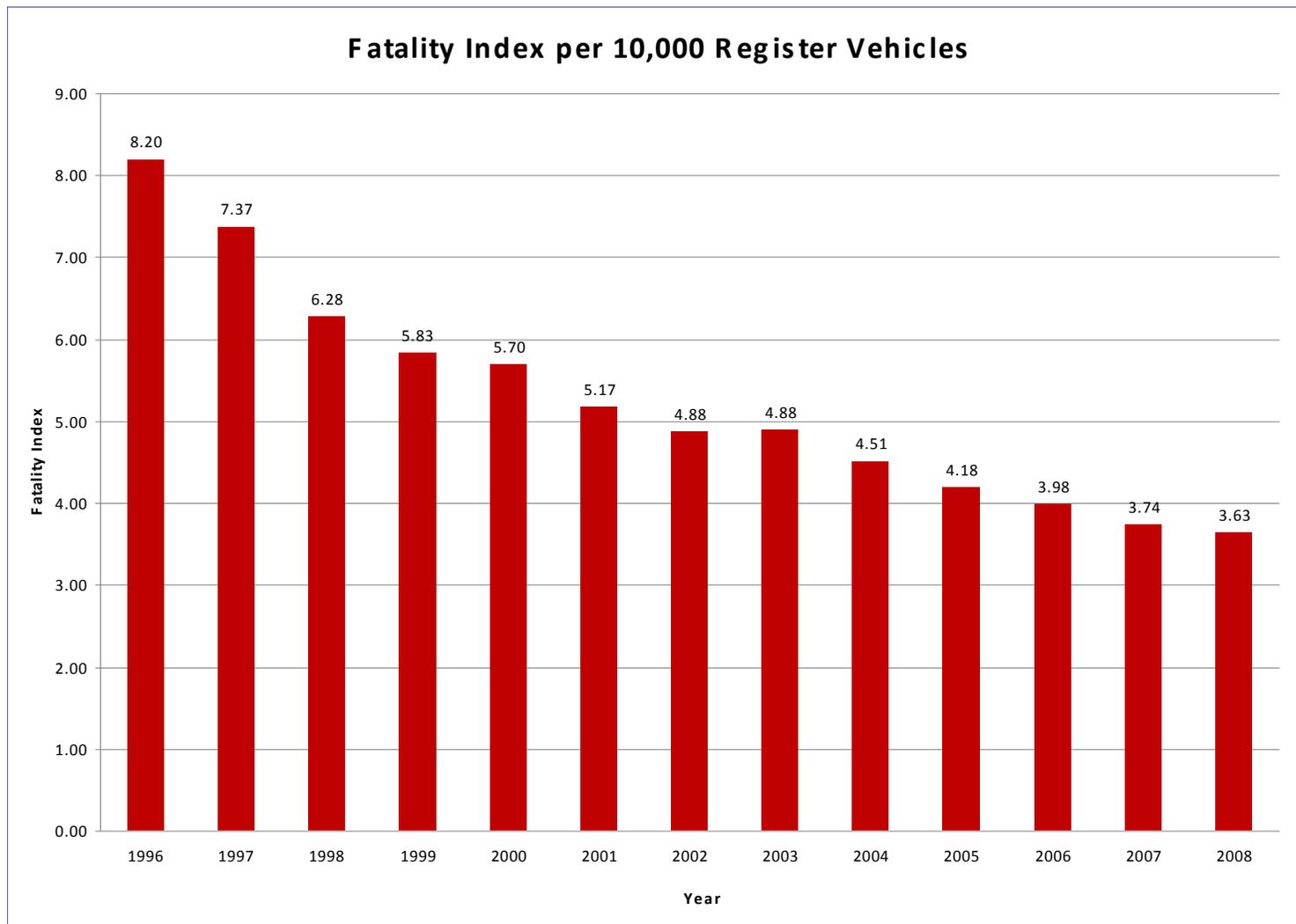
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Source : Malaysian Institute of Road Safety Research (MIROS)



Ministry of Transport, Malaysia



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CHALLENGES

- Malaysia's motorization growth rate over 10% per anum - one of the fastest growing motorization rate in the world
- Sustainable transport is critical to protect the environment. Malaysia is moving forward to achieve:
 - Better Air Quality
 - Efficient, integrated and safe public transport system
 - Reduction in road accidents and fatalities



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THANK YOU



JABATAN KETUA PENGARAH TANAH DAN GALIAN 

WISMA SUMBER ASLI

