

Fifth Regional
Environmentally Sustainable Transport (EST) Forum

Bangkok, THAILAND 23 – 25 August 2010



Environmentally Sustainable Transport Strategies in
BRUNEI DARUSSALAM



- Part I - Introduction
- Part II - Achievement
- Part III - Future Strategy



The accomplishments of its well - educated and highly skilled people - The Quality of Life - The Dynamic, Sustainable Economy

23 August 2010



COUNTRY'S PROFILE

Area :

5,770 sq.km

Population :

406,200 (2009)

Geographical Features :

More than 70% forest

- High reliance on oil and gas
- Relatively high standard of living
- Non - car manufacturer
- Low public transport use (bus and taxis)
- High Private Vehicles
- Fuel subsidy provided by government

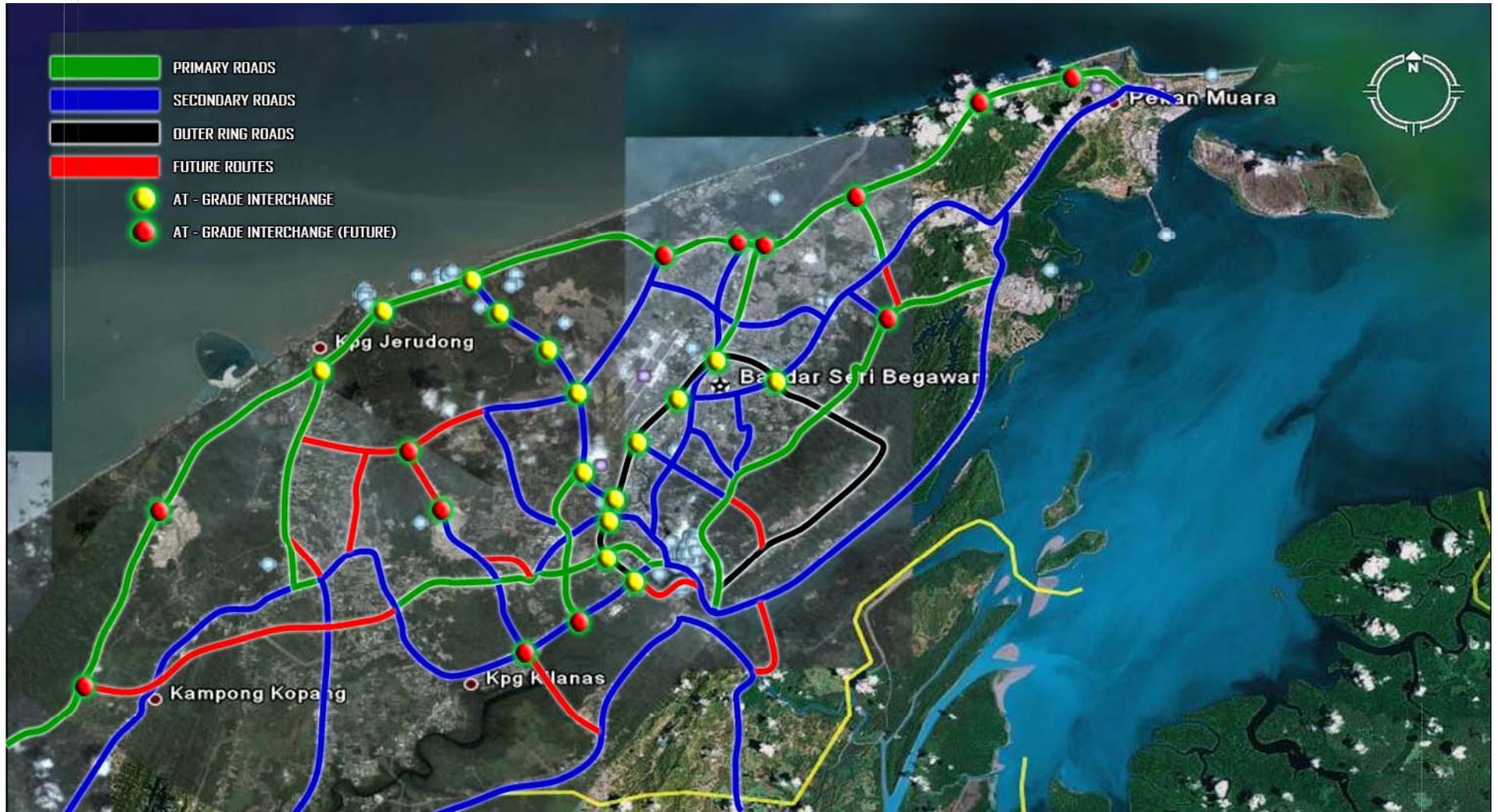


ASEAN HIGHWAY (AH150)



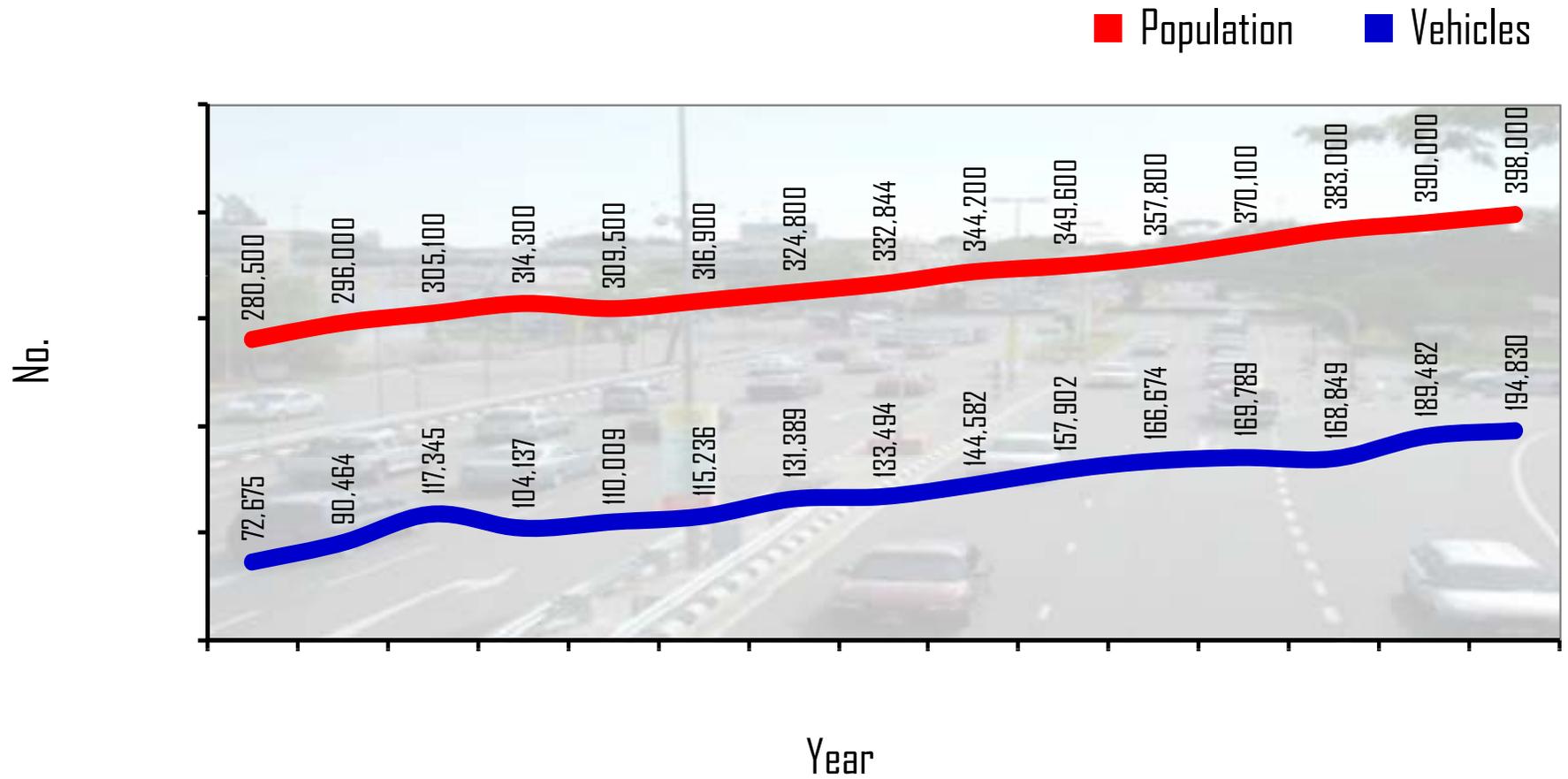


ROAD NETWORK





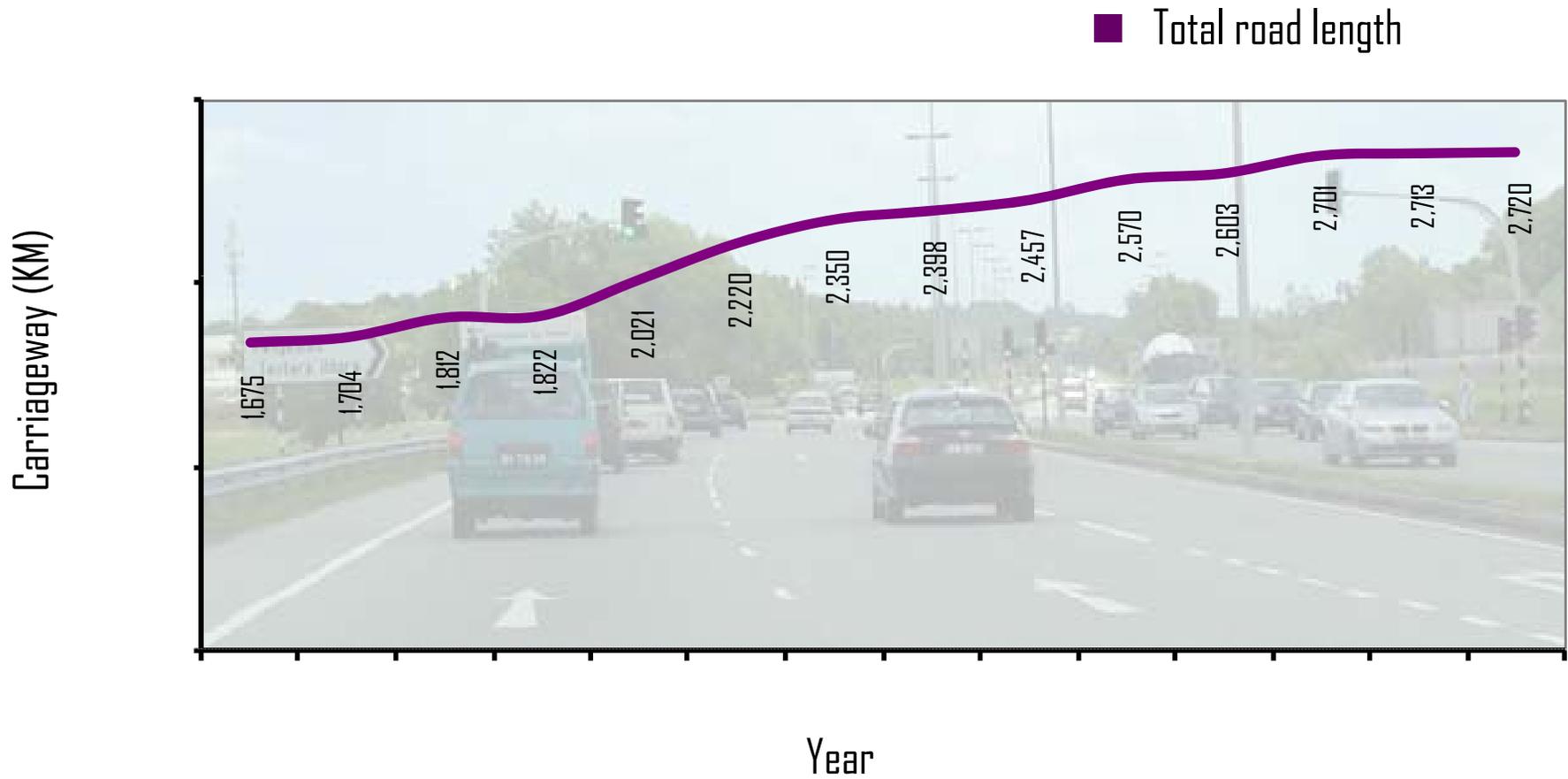
TRANSPORT TRENDS





TRANSPORT TRENDS

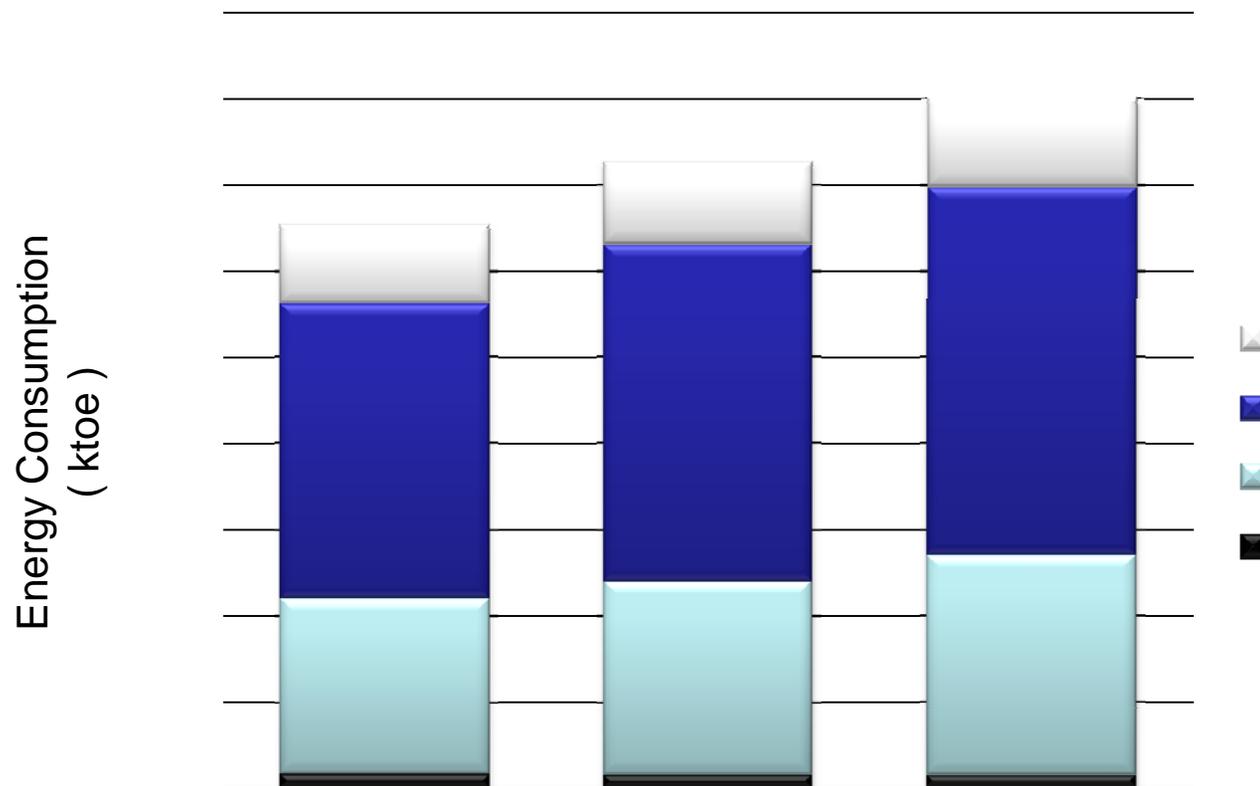
Road Length (Carriageway KM)



(Source : Public Works Department, Ministry of Development)



FUEL CONSUMPTION – BY SECTOR



More than 50 % fuel consumed by transport sector



FUEL PRICES

PRODUCT (unleaded gasoline)	Brunei Darussalam subsidized retail pump price BND / litre	neighbouring Malaysia retail price BND / litre
Premium RON 97	0.53	0.87
Premium RON	0.519	0.85
Premium RON 85 (Regular)	0.36	0.66
DIESEL	0.31	0.71

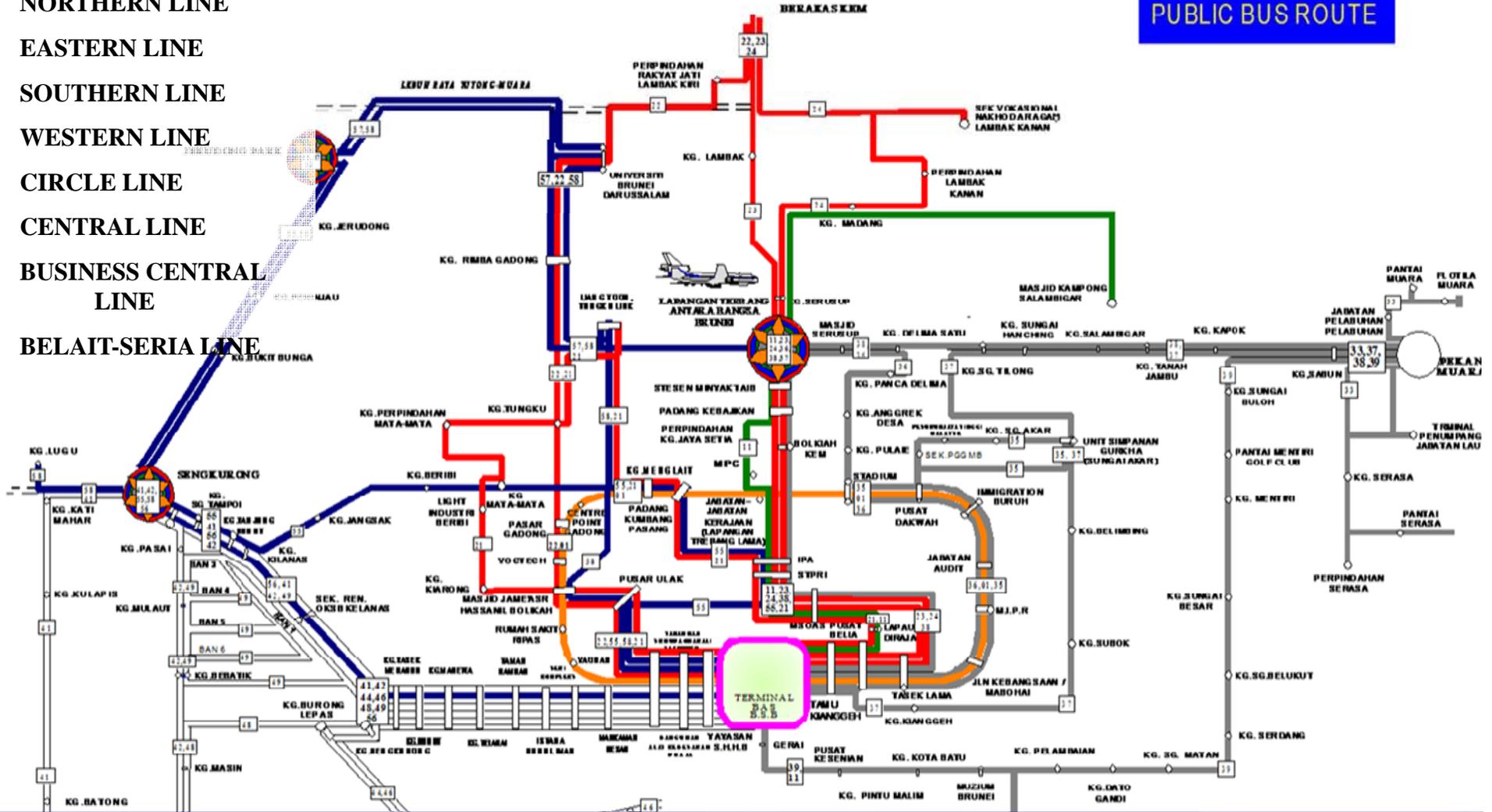


VEHICLES – FUELS COMPLIANCE

- Imported gasoline powered vehicles met Euro 1 and 2 standard (European countries now met 4 or even 5)
- Gasoline requirement does not meet stringent requirement of Euro 3 and 4 standard
- Diesel powered vehicle only meets Euro 1 standard

NORTHERN LINE
 EASTERN LINE
 SOUTHERN LINE
 WESTERN LINE
 CIRCLE LINE
 CENTRAL LINE
 BUSINESS CENTRAL
 LINE
 BELAIT-SERIA LINE

PUBLIC BUS ROUTE



(Source : Land Transport Department, Ministry of Communication)



VEHICLE INSPECTION CENTER (VIC)



- Vehicles inspection - established since 1992. Only one in Gadong but more VICs are under construction.
- Ensure vehicles are maintained regularly to meet roadworthiness and emission standards
- Pre-requisite for renewal of road tax
- Two types of inspection :-
 - Type Approval of new vehicles
 - Periodic inspection for used vehicles
- Annual inspection for vehicles of age 7 years and above for private-use vehicles.
- 1 year for heavy vehicles; taxis and buses followed by every 6-monthly inspection.

(Source : Land Transport Department, Ministry of Communication)



STRATEGIC PLAN 2008 - 2017

“ ENHANCE SAFETY, SECURITY AND TO PROMOTE ENVIRONMENTALLY FRIENDLY INDUSTRY ”



INTERNATIONAL COMMITMENTS

Ministerial Conference on Global Environment and Energy in Transport (MEET)

Long-term global vision for realizing low-carbon and low-pollution transport systems and the national transport policies in each country

Basel Convention

Control of Trans-boundary Movement of Hazardous Wastes and their Disposal in December 2002

ASEAN-Japan Action Plan On Environment In Transport Sector (AJ-PEIT)

Developing action plan on environment improvement in the transport sector

Kyoto Protocol

Adopted in Kyoto, Japan on 11 December 1997, entered into force on 16 February 2005 and instrument of accession on 20 August 2009



FUTURE DEVELOPMENT

- Formation of Technical Committee to develop ITS Master Plan for Brunei Darussalam
- Commitment in providing / promoting cycle lane
- Enhancement of pedestrian crossing design to promote & improve facilities with more comfortable and convenient facilities
- New residential development to incorporate public amenities within housing areas to reduce trips generated and enhance NMT facilities



FUTURE DEVELOPMENT



- New Green city
- New Residential development to incorporate with NMT facilities & centralized public amenities
- Integrated public transport system



NEW INITIATIVES IN EST AREAS

Introduction of new technologies

- Green vehicles e.g. hybrid and other alternative types of vehicles
- Brunei Vehicles Labelling Systems (BRUVELS)

Improvement in Public Transport

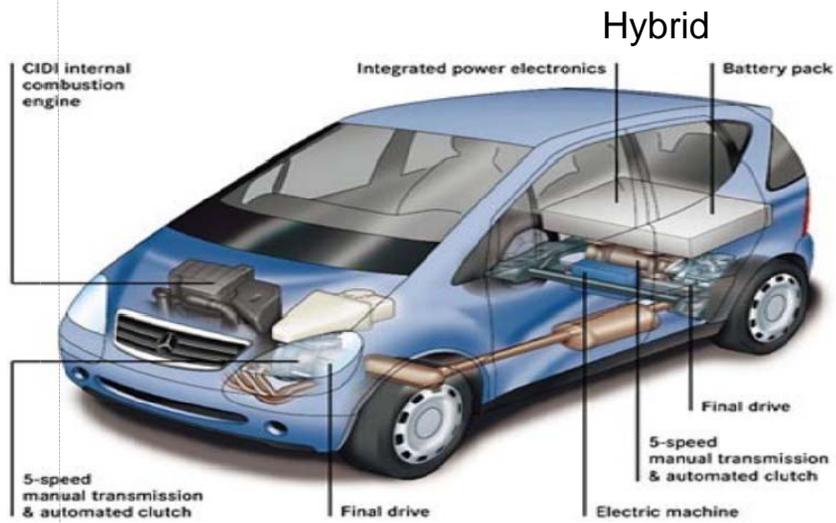
- Franchised Taxi
- New Bus Improvements

Control Mechanisms

- Used import cars control
- New import cars control (via type approval)
- Vehicles Licensing Fees Revision
- Introduction of Demerit Points
- Electronic Road Pricing (ERP)



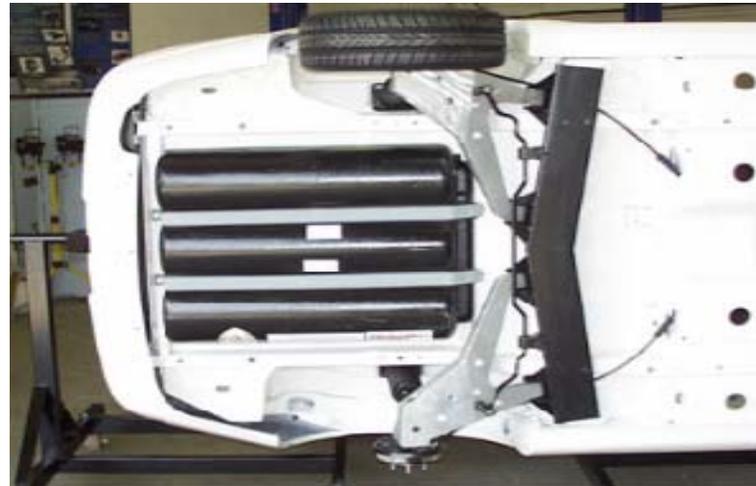
GREEN VEHICLES



Electric



Natural Gas Vehicles



NGVs have to give up precious cargo and trunk space to accommodate the fuel storage cylinders



NGVs refueling



FUTURE MODE



Massive Rapid Transport (MRT) and Light Rail Transport (LRT)
low-cost solution that fit the purpose for
Brunei Darussalam's situation.



ASEAN – JAPAN Initiatives on Environment In Transport Sector

No.	Measures	Priority	Means
1	Improvement and Utilization of the ASEAN-Japan Information Platform	High	<ul style="list-style-type: none"> • Training
2	Improvement of vehicle inspection system	High	<ul style="list-style-type: none"> • Introduction of suitable vehicle types. • Adoption of best practices and capacity building
3	Promotion of Eco-Driving	Middle	<ul style="list-style-type: none"> • Training
4	Calculation and Utilization of Automobile Emission Factor	High	<ul style="list-style-type: none"> • Knowledge transfer
5	Improvement of Automobile Standard and Certification System	High	
6	Introduction of Low-Pollution and Fuel-Efficient Vehicles	High	<ul style="list-style-type: none"> • Introduction of suitable vehicle types. • Adoption of best practices and capacity building
7	Improvement of public transport system	High	
8	Management of public transport system	High	