BRUNEI DARUSSALAM

<u>Country</u> : -Brunei Darussalam

Designation and Organization:-Public Work Department ,Ministry of Development & Land Transport Department, Ministry of Communications

Seventh Regional EST Forum in Asia 23 – 25 April 2013 Bali, Indonesia



Presentation outline

Initiatives on Bangkok 2020 Declaration

•Strategies to SHIFT towards more sustainable modes – PUBLIC TRANSPORTATION

- Improve Public Transport Services
 - Logistic
 - Operational

•IMPROVE – CLEANER FUELS AND TECHNOLOGIES, INSPECTION AND MAINTENANCE

- Fuel Standard
- Vehicle Inspection

•CROSS CUTTING – SAFETY

– Act and Regulations

Strategies to SHIFT towards more sustainable modes – PUBLIC TRANSPORTATION

- Improve Public Transport Services
 - Logistic:
 - Build new Central Bus Station (franchise bus, inter district, inter state / BIMP EAGA) construction start 2013.
 - Build new Bus Terminal. Construction start 2013.
 - Increase number of Shelter Bus Stop.

Improve Public Transport Services

Operational

- Improve connectivity, routes
- Extend operating hours
- Improve waiting time
- The bus conditions / type of bus
- Colour of the bus according to route
- End of year 2013 Tender will be open for New
 Franchise bus (New colour code according to route, low floor type of bus, electronic signage etc)

Shopping Areas

Bandar Seri Begawan: Yayasan Complex - Bus 01 Kianggeh Market - All Busses Kianggeh Waterfront - Bus 01 Kianggeh Waterfront - Bus 01 Gadong: The Mall - Bus 20,01 - Bus 20,01 - Bus 01 Centerpoint Pasar Malan Batu Bersurat: Soon Lee Mega Happy Star - Bus 20,21 Batu Satu: First Emporium YMRM Boutique - Bus 01 - Bus 01 Kiulap: Seri Kiulap Mall - Bus 20 - Bus 20 - Bus 20,22 Hua Ho Supermarka RBC Express Fastfo Mabohai: Supasave/Toys 'R' Us - Bus 01A Menglait: HSBC - Bus 01 NBT/Rismi - Bus Ol Beribi: Sumbangsih Mulia - Bus 21 - Bus 21 Rimba: DeRimba Giant Supermarket - Bus 22 - Bus 22 Mukim Berakas: Time Square/Airport Mall/Citi Square Delima Kompleks -Bus 34 Manggis Mall -Bus 34 Warisan Kompleks -Bus 38 - Bus 23,24 Tanjung Bunut: Hua Ho Tanjung Bunut -Bus 55,56,42,45 Home Centre -Bus 55,56,42,45 Sengkurong Hua Ho Sengkurong -Bus 55,56,42,45 Pekan Muara

Pekan Muara -Bus33 Muara Centre -Bus33 Muara Beach -Bus33 Serasa Beach -Bus33

Traveller's Note

Kuala Lurah -Busses 42,44

Kuala Belait/Tutong District(Via Proposed Rimba Terminal) -Busses 22,57

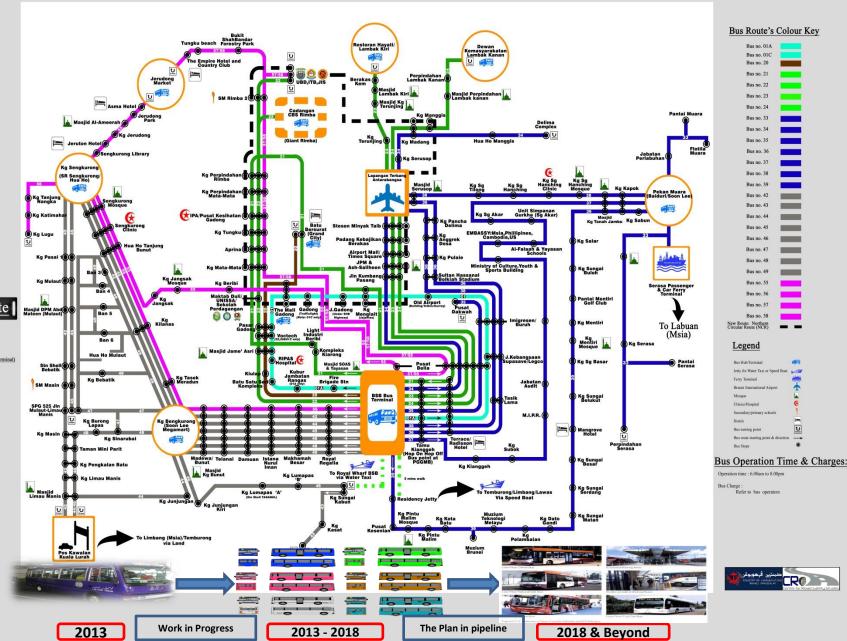
Kianggeh Jetty -Bus 39

Labuan/Kg Menumbok (Kota Kinabalu) (Via Muara Passenger/Car Ferry Terminal) -33,37,38,39

	1101013	
Terrace Hotel	-All Busses	
River View Hotel	-Busses 01,21,23	.24
Traders Inn	-Busses 21	
Brunei Hotel	-All Busses	
Radisson Hotel	-All Busses	
Centerpoint Hotel	-Busses 01,20	
Kiulap Plaza Hotel	-Busses 20	
Palm Garden hotel	-Busses 20	
Asma Hotel	-Busses 55	
Holiday Lodge Hotel	-Busses 55	
De Anggrek Hotel	-Busses 36	
De Anggrek Hotel	-Busses 36	
Times Hotel	- Busses 23,24,34,	35,36,38
Mangrove Hotel	- Bus 39	
The Empire Hotel and	Country Club	-Bus 5

Places Of Interest

Brunci Royal Regalia - All Busses Jame' Asr Hassanil Bolkinh Mosque - Bus 01,20,22 Sultan Ontra Al's Simidder Mosque - All Busses Tasek Lama Recreational Park Brunei - Bus 01 Mazium - All Busges Jerudong Park Playground -55 Shahbundar - 57758 Damaan - 42,444,54,64,84,9,56



Brunei-Muara Public Bus Routes

Bandar Seri Begawan Bus Terminal (as Central Bus Station)



Purple Bus (Franchise bus)

N 89 1260 200

Strategies to SHIFT towards more sustainable modes – PUBLIC TRANSPORTATION

• Challenges:

 Attract to use public bus – vehicle ownership is very high, low cost associated with owning a car (price of the car, fuel, parking are cheap, easy access to car loan).

The quality of public transport is below international standard.(not popular)

IMPROVE – CLEANER FUELS AND TECHNOLOGIES, INSPECTION AND MAINTENANCE

- Fuel standard:
- Currently
 - Petrol (Mogas) Euro II Level
 - Diesel Euro 1 Level
- Future (petrol & diesel)
 - Euro IV standard by 2016 (target)

Vehicle Inspection Centre (VIC):

-Current regulations for periodical vehicle inspection (roadworthiness):

- Passenger car age more than 7 years Inspection annually – before Vehicle License issued.
- Commercial vehicles age more than 1 year every 6 months.

 Currently , 2 VIC – computerize and 2 VIC –
 Manual – all own and manage by Government (Land Transport Department, Ministry of Communication).

INSPECTION AND MAINTENANCE

Vehicle Inspection Centre (VIC):

-Initiatives - Future - by 2014 / 2015

- All VIC's will be fully computerize
- By 2014 / 2015 all VIC will be commercialize.
 - Manage and operational run by private sector through Private Public Partnership (PPP)
 - Examples tested & inspected Lighting, brake, exhaust emission, noise)

Vehicle Inspection Centre

Road Worthiness Limit Requirements

RECOMMENDED FIGURES /			
NO	INSPECTION TYPE	VALUE REQUIREMENTS	
1	Tinted Glass Test	Light Tramission Not Less 70%	
2	Side Slip Test	Mode A: 5m/km Mode B:10m/km	
3	Braking Efficiency Test		
a)	Drag	10% (Over Axle Weight)	
b)	Different	8% (Over Vehicle Weight)	
		15% (Over Vehicle Weight)	
c)	Sum (Handbrake)	10% (Over Vehicle Weight)	
		20% (Over Axle Weight)	
d)	Sum(Footbrake)	60% (Over Vehicle Weight)	
		50% (Over Axle Weight)	
4	HC-CO Test (Petrol powered Vehicle)	< 4.5% for CO Gas by volume HC < 1200 ppm for HC or (Equivalent to Euro2 for Petrol Engine)	
5	Diesel Smoke Test (Diesel Powered Vehicle)	<50% HSU or (Equivalent to Euro1 Diesel Engine)	
6	Sound Level Test		
a)	Heavy Vehicle	<91 dB (A) For Truck	
b)	Light Vehicle	<91 dB (A) For Car	
c)	Motorcycle	<91 dB (A) For Motorcycle	
7	Speedometer Test	+ 10% and -15%	
8	Taxi Meter Test	Plus ,7% variance of Standard Distance =10% Interval 5%	
9	Above Carriage Inspection	Refer to form, List of items inspected	

Four VICs :-

1.Gadong , BSB 2.Tutong 3.Temburong 4.Kuala Belait

To be Commercialization

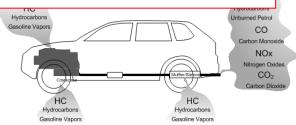
EXHAUST EMISSION LIMIT REQUIREMENTS

PETROL ENGINE

Brunei Requirement : 1995 -2012 1997 Mandatory to install Catalytic Converter for Petrol Engine Emission Test Limit >4.5% CO₂ by Volume (Equivalent to Euro II Standard)

DIESEL ENGINE

Brunei 1995 -2012 Emission Test Limit > 50% HSU (Equivalent to Euro I Standard)



- Cross Cutting Strategies Zero Fatality Policy
 New Initiatives
- I. Driving License
- Amendment of Road Traffic (Driving License) regulations — eg. To get a license to drive a commercial vehicle must has Class 3 driving license at least 1 year & age not less than 21 years old. Age more than 70 yrs — medical check up.

- Improve driving curriculum inculcate defensive driving for new drivers.
- Bus driver mandatory to attend Defensive Driving course.
- Set up new driving school for commercial / heavy vehicles.
- Build another new Training and Test Driving Circuit.

II. Introduction of DEMERIT POINT SYSTEM

•Pilot project start last year (Mei 2012) and will be fully implemented by Mei / Jun 2013.

• The system is designed to ensure drivers in Brunei Darussalam to be **more disciplined, careful and complying** with existing regulations. Through this system, enforcement agencies will be able to **identify high risk drivers** who may cause danger to other road user.

- Speed Warning Device (SWD) for commercial vehicle (Heavy Goods Vehicle & Public service Vehicle).
- Year 2013 / 2014 Up grade / New SWD device can record data the offences on speeding and driving activities, can print out by enforcement agency.
- Mandatory for all commercial vehicle to install SWD.
- Objectives of SWD for the driver; public, Enforcement agency
 - To regulate the commercial vehicle for being over speeding.

Speed Warning Device (SWD)



Thank You

BANGKOK 2020 DECLARATION

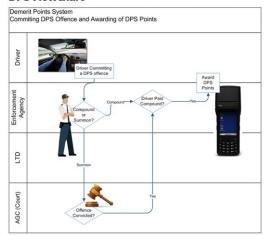
STRATEGY	ACHIVEMENT/INITIATIVE
AVOID	CSPS Transport Study
SHIFT	Bicycle lanes Public Transport Networking
IMROVE	Vehicle Inspection Centre Fuel Quality Hybrid Vehicles
CROSS -CUTTING	Demerit Point System

Demerit Points System (DPS)

The Demerit Points System is a system whereby a demerit point will be awarded to a driver who commits a traffic offence and has paid a fine or compound. The point given may lead to either a suspension or revocation of the driver's licence depending on the severity of offence committed. This system will require offenders to undergo retest and pass both theory and practical driving test if the driver is suspended from driving for the third time.

This system allows a driver to accumulate less than 24 points within 24 months before he becomes liable for suspension. If a driver has been suspended before, he will only be allowed to accumulate less than 12 demerit points within 12 months Introduces : in Mid 2012. Implemented in Three (3) Phase:-Phase 1 – Trial, Educate & Road shows Phase 2 - Installation of Road Cameras & CCTV Phase 3 – Full Implementation and enforced

DPS Flowchart



8 categories of offences :-

- 3 Points
- 4 Points
- 6 Points
- 8 Points
- 9 Points
- 10 Points
- 12 Points
- 18 Points
- 24 Points

Initiative Reward

Vehicle owners who have not committed any offence that attract demerit points and have clean record for three continuous years, he will receive a 5% insurance premium discount on top of his "Non-Claim Bonus (NCB)" from the participating insurance agencies provided that he has not made any claim on his NCB during those periods

Major Causes of Road accidents:-

Using mobile phone while driving

Texting while driving

Disobeying traffic lights

Reckless driving

Tailgating

Speeding