

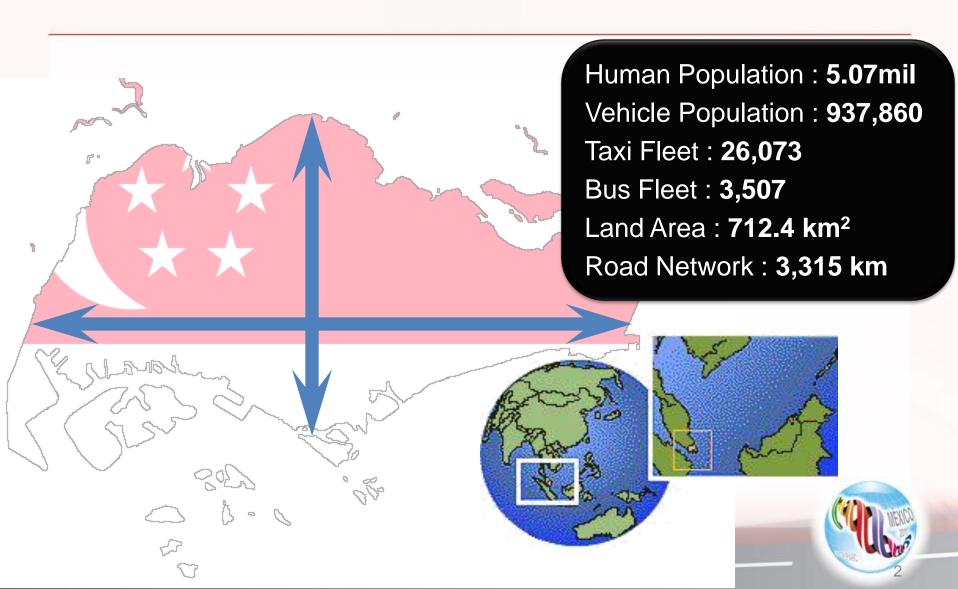
# SUSTAINABLE DEVELOPMENT OF A ROAD SAFETY FRAMEWORK

### Chandrasekar s/o Palanisamy

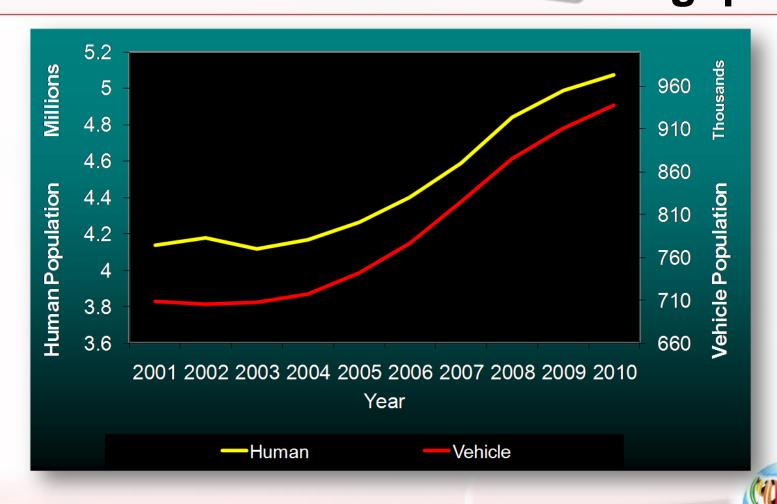
- Land Transport Authority
- Director, Traffic & Community Partnership
- SEKAR\_CHANDRA@Ita.gov.sg



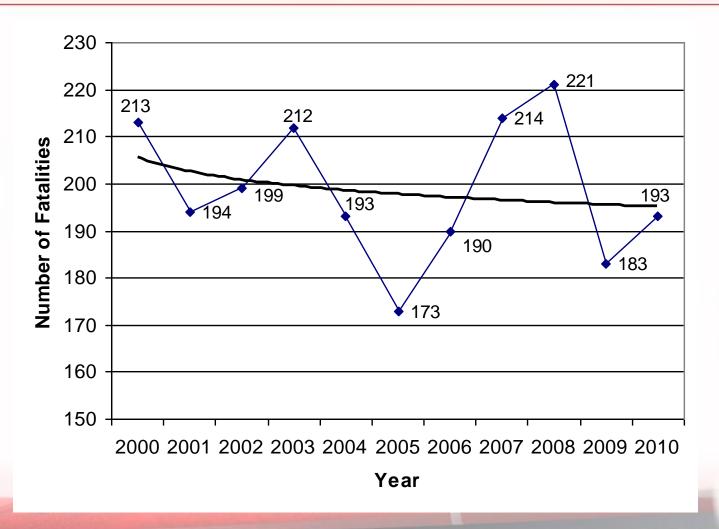
# Overview of Singapore



# Vehicle and Human Population in Singapore



# Road Fatalities in Singapore





Source: http://www.spf.gov.sg/stats

# Authorities involved in Road Safety in Singapore





- Road Engineering
- Vehicle Engineering



- Enforcing Traffic Regulations
- Road Safety Education

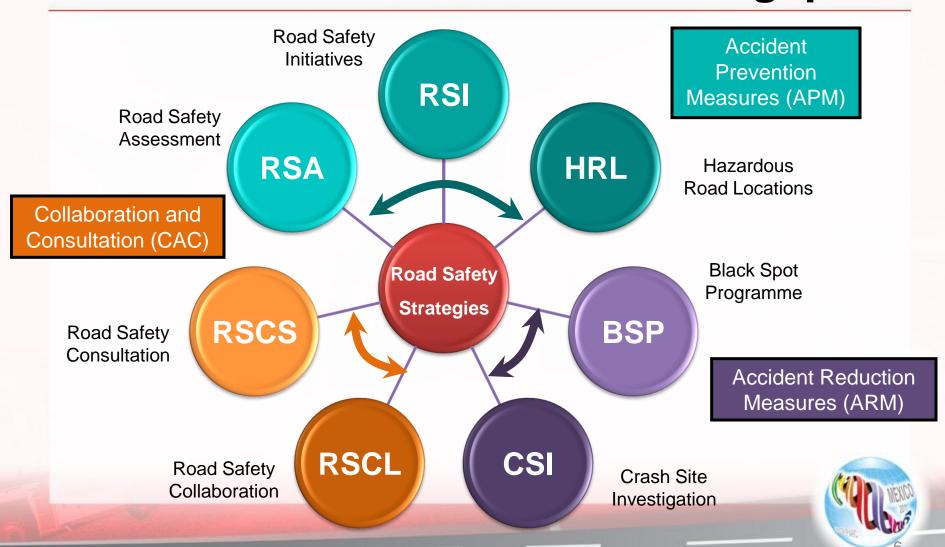


SINGAPORE ROAD SAFETY
COUNCIL

- Public Education
- Research
- Partnerships with stakeholders



# Framework of Road Safety Measures in Singapore

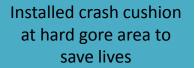


#### **Accident Prevention Measures**

#### **Road Safety Assessment**

- Day and night assessment
- Identify potential safety hazards for road users







Provided proper transition of guardrail to parapet wall

#### **Hazardous Road Locations**

 Treat locations that are potentially dangerous to road users



Covered drains to eliminate hazards

Floodlight installed to increase illumination at zebra crossing



### **Accident Prevention Measures**

#### **Road Safety Initiatives**

- Information collected from the various programs
- Research and formulate new initiatives



Resurfacing roads with high skidresistance materials



Pedestrian Crossing Ahead Markings



Providing dedicated cycling paths



Drivers' feedback sign



Safety bollards at bus stops



Enhanced school zone scheme



## **Accident Prevention Measures**

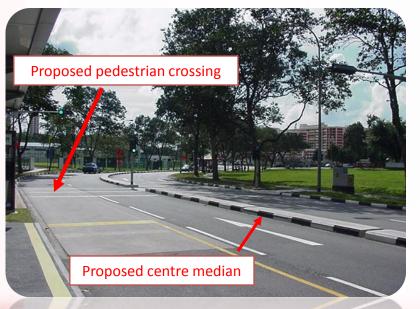
#### **Road Safety Initiatives**



### **Accident Reduction Measures**

#### **Crash Site Investigation**

- Fatal accidents reviewed
- Identify deficiencies in road infrastructures



# Crash data and Traffic Accident Analysis Management (TAAM) System

#### Assists in the:

Study and execution of ARM

strategy

Exploration on APM strategy



- Analyse accident trends
  Understand
- contributory factors leading to accidents at specific locations
- Identify black spot locations



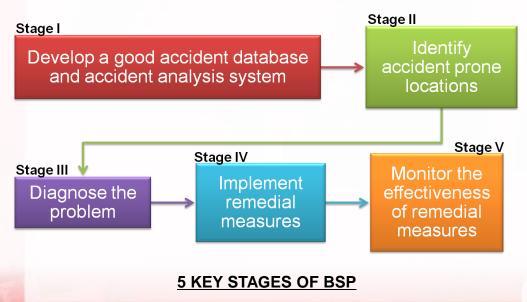
#### **Accident Reduction Measures**

#### **Black Spot Programme**

Review all injury accident locationsCriteria : > 15 accidents over 3 years

Reduce the total number or the severity of accidents that

occur at such locations





#### Collaboration

- Raise profile of road safety nationally and internationally
- Engage governments, non-government organisations and business

#### **National Organisations/Bodies**

- ✓ Traffic Police
- ✓ Singapore Road Safety Council
- ✓ Singapore Action Group for the Elders







#### International Organisations/Bodies

- ✓ Global Road Safety Partnership
- ✓ WHO Global Status Report on Road Safety
  WORLD ROAD ASSOCIATION
- ✓ PIARC
- ✓ REAAA
- ✓ ADB
- ✓ ASEAN Land Transport Working Group











#### **Outcomes of International Collaborations**



**Decade of Action for Road Safety (2011)** 





GRSP Asia Road Safety Seminar (2009)

✓ Trained delegates from more than 35 countries
 ✓ Conducted 2 to 3 training courses per year

#### **Consultation**

- Provide training to overseas delegates
- Share road safety best practices

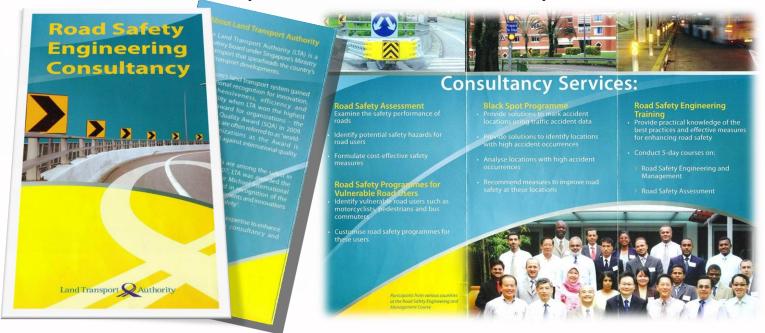






#### Consultation

Provide consultancy in areas of road safety



LTA provides practical expertise to enhance road safety through consultancy and training services

# **Road Safety Awards**

# Prince Michael International Road Safety Award

In December 2007, LTA together with Traffic Police, were awarded the Prince Michael International Road Safety Award



# Institute of Transportation Engineer (ITE) Award

■ In August 2011, LTA was awarded the ITE's 2011 Edmund R.Ricker Transportation Safety Council Award



## Conclusion

Challenge – Balancing road safety and traffic efficiency

Road safety is a shared responsibility



