

SRI LANKA

Initiatives and
Achievements on Bangkok
2020 Declaration

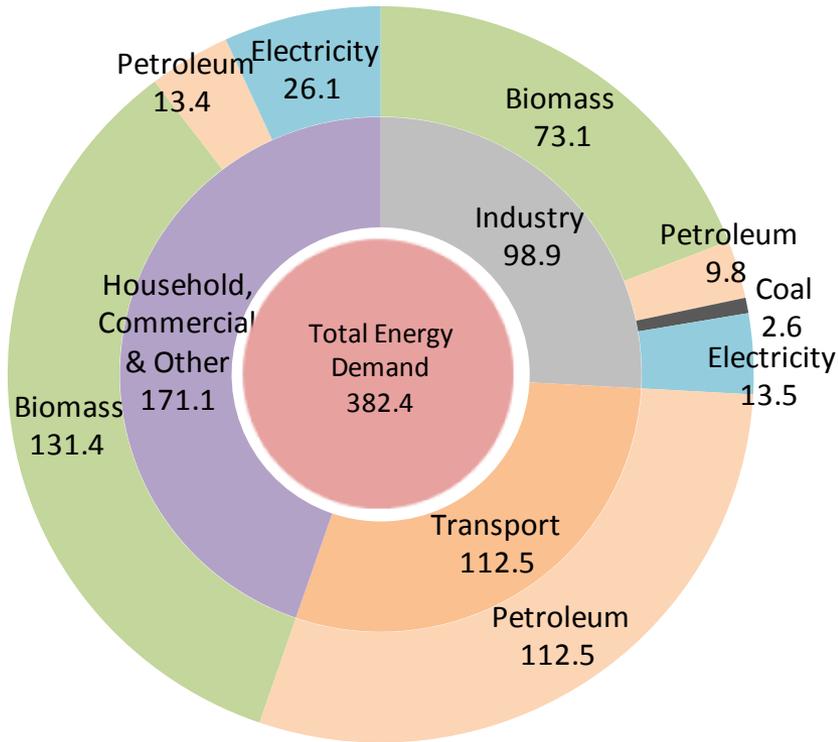
> EST 2015

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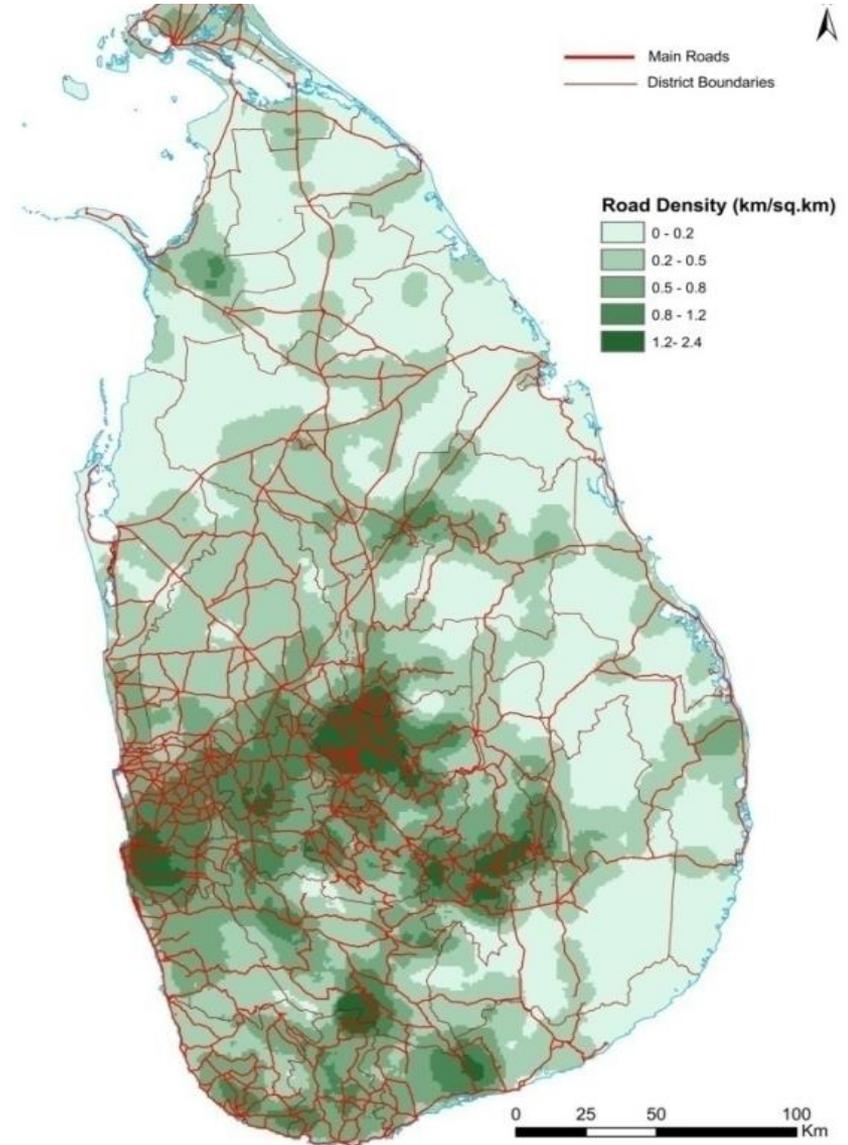
Geo - Location



Population	:	20.359 Million (Census 2011)
Population Density	:	323/km ²
Official Languages	:	Sinhala, Tamil and English
Capital City	:	Sri Jayawardhanapura Kotte
Commercial Capital	:	Colombo
Major Industry	:	Apparel Industry, Tea Industry
Major Exports	:	Apparel Products, Tea, Spices
Major Imports	:	Petroleum, Fertilizer, Chemicals
GDP	:	USD 71 Billion
Per capita GDP / Annum	:	USD 3,385
Fiscal Year	:	Calendar year
Energy / GDP	:	1,162.1 toe/million USD

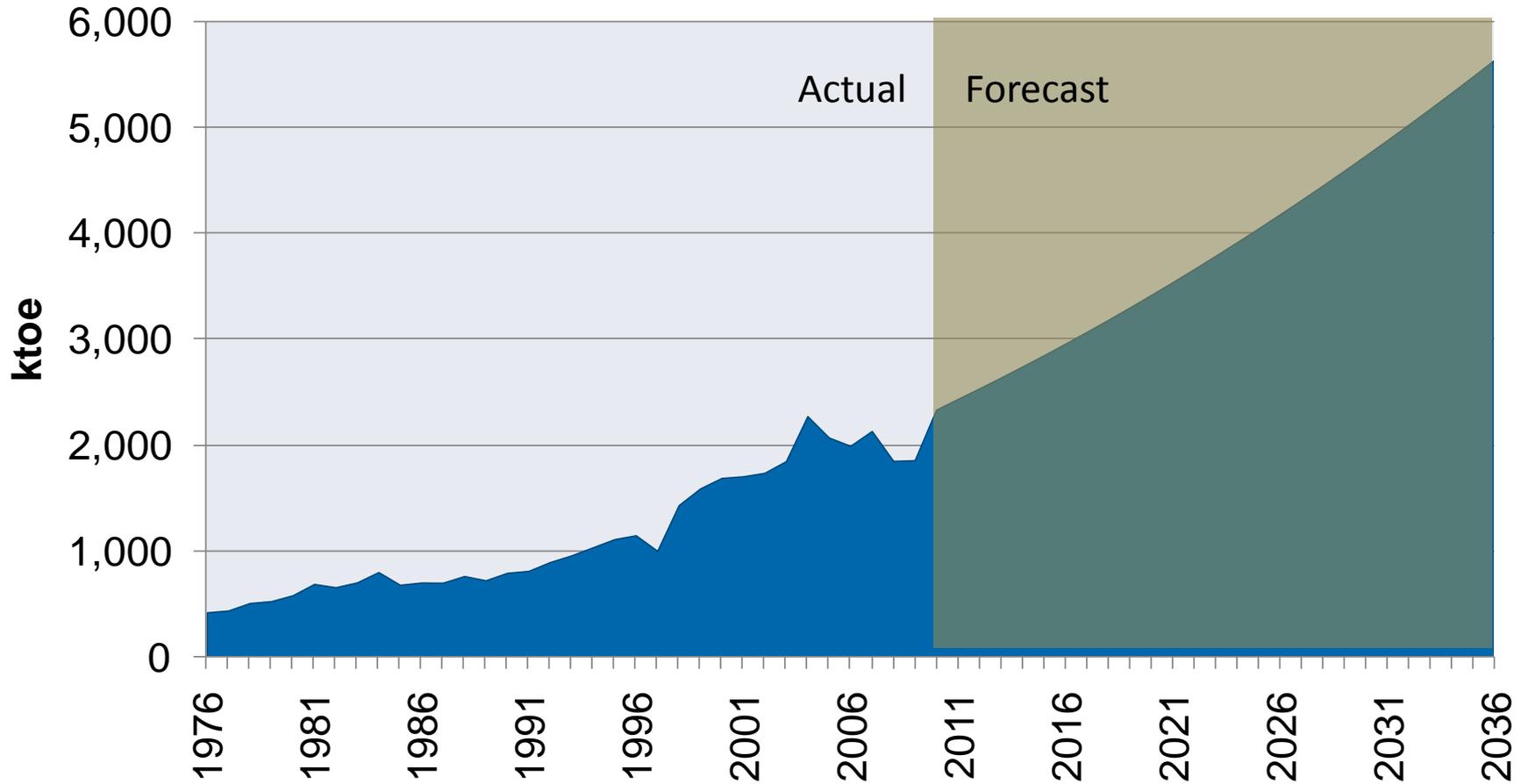


Energy Balance 2014 in PJ



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Transport Energy Demand Trajectory



Emissions	Source	GWP	Impact (eq. CO ₂) tonnes/year	Share of total emission inventory (%)
Methane	Paddy cultivation	21	3,641,119	10.13
HCFC - R 22	Refrigerant	1,700	386,529	
HCFC - 141b	Refrigerant	725	5,612	
	Sub total (refrigerants)		392,141	1.09
Methane	Forests		10,507	0.03
CO ₂	Power generation (oil)	1	2,197,166	
	Power generation (coal)	1	1,663,580	
	Power generation (biomass)	1	3,317	
	Sub total (power)		3,864,063	10.75
CO ₂	Transport	1	7,705,779	21.44
CO ₂	Industry (oil)	1	654,543	
	Industry (biomass)	1	6,560,038	
	Industry (coal)	1	205,101	
	Sub total (industry)		7,419,682	20.64
CO ₂	Household (biomass)	1	12,519,912	34.84
Total			35,939,731	100.00

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Flora and Fauna worth protecting

- ✓ Among the top 25 Biodiversity Hotspots in the World
- ✓ Highest Biodiversity per 10,000 km² in Asia
- ✓ 23% flowering plants & 16% of mammals were flagged endemic
- ✓ Deforestation, extreme urbanisation, and Poaching are threats to the Natural Environment



- Based on strategic framework of Bangkok declaration
 - Land use planning
 - A Megalopolis concept (a network of satellite cities)
 - City development planning
 - Transport planning
 - ICT development and integration with transport system
 - Road improvements
 - Fuel switching



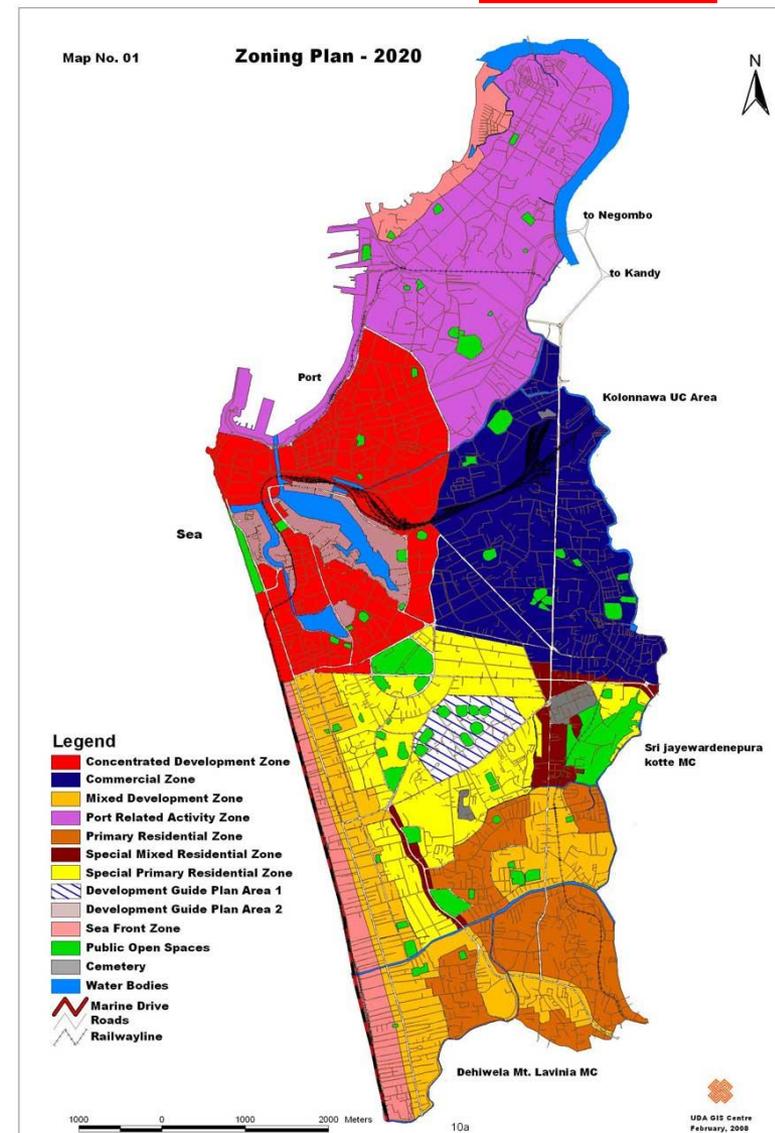
□ In AVOID sphere

- ✓ Many private sector logistics provider networks in operation, realising scale benefits in freight
- ✓ A large Megalopolis in conceptual stage
 - ✓ A Technology city, aero city, industrial city with a port city
- ✓ Port City - a land reclamation project targeting mixed development
- ✓ Large scale roll out of ICT enablers
 - ✓ IT enabled transport booking services
 - ✓ Mobile based transactions (banking, other services)
 - ✓ Free Wi-Fi zones in public spaces

- ▶ Development of City of Colombo – Divided into zones by Urban Development Authority (Zoning Plan 2020)

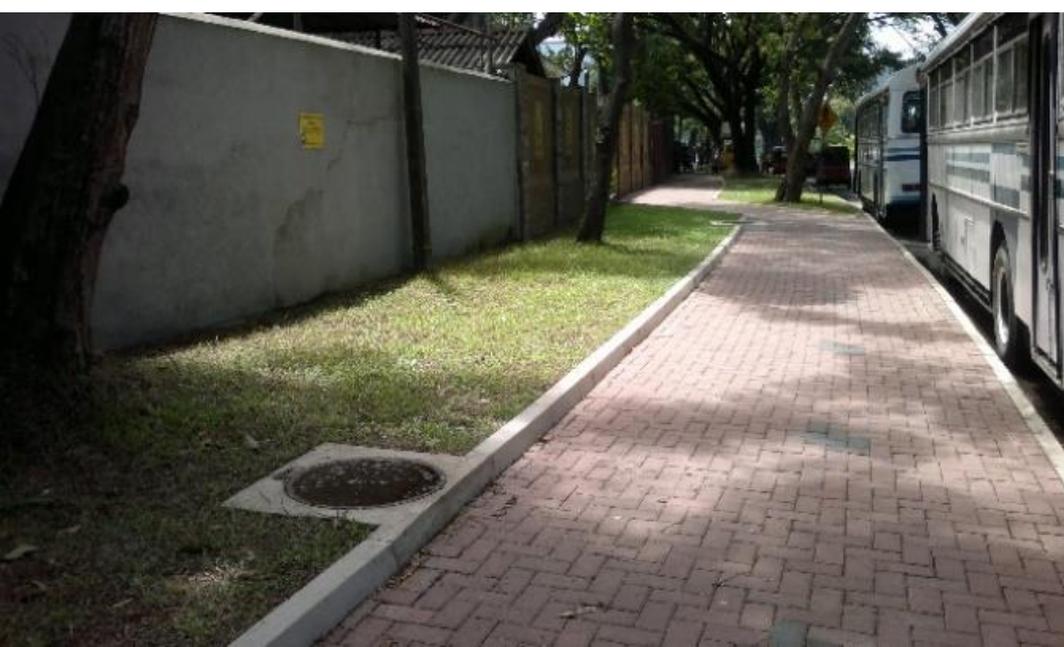
CITY OF COLOMBO

- ▶ AREA - 37 km²
- ▶ POPULATION – Residential 555,051 in year 2012
- ▶ Floating 500,000



□ In SHIFT sphere

- ✓ Vastly improved walkability in the city of Colombo
- ✓ A major facilitation of non-motorised transport



- ✓ Improving Walkability by providing foot walks with proper safety and quality
- ✓ Planting trees along walk ways – To provide the shade for pedestrians
- ✓ Bicycle Lanes are used only as a recreation
- ✓ Intersection improvement

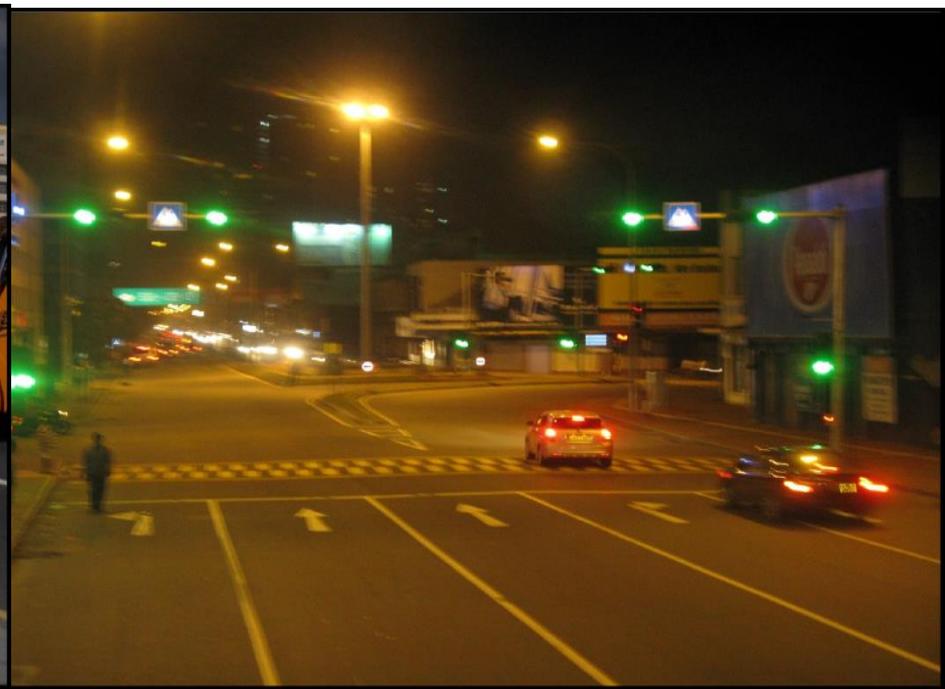
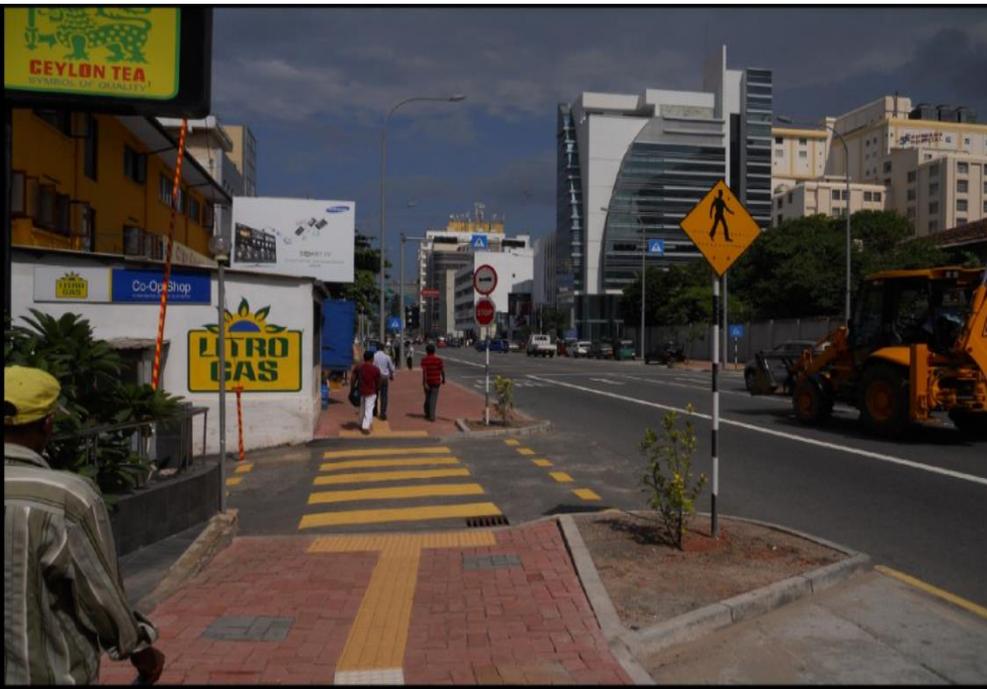


- ✓ Improving waterways for transport
 - ✓ Only few trials were carried out



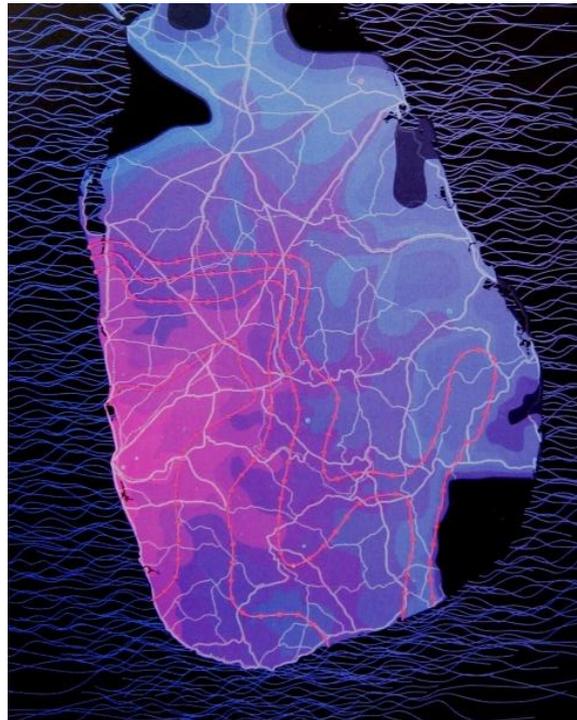
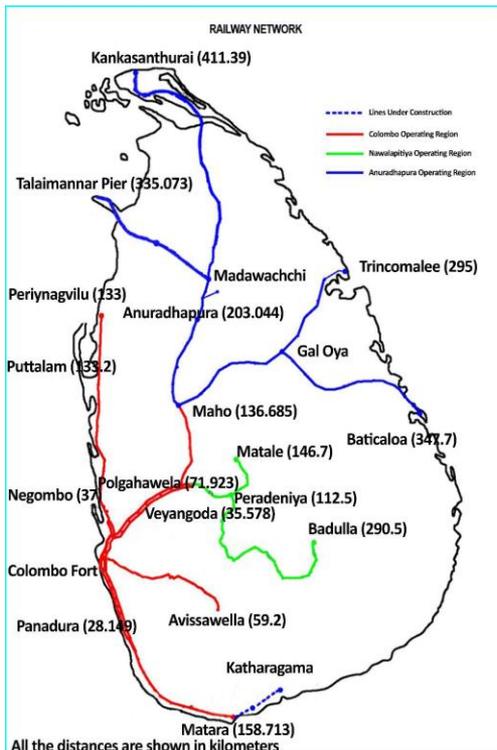
Corridor	Selected Development Options		
	Railway	New Transit System	BRT/Bus/Road
Negombo	Modernized	-	Bus Priority
Kandy	Modernized	-	BRT
Low Level Rd	-	-	Bus Priority
Malambe	-	Monorail	-
High Level Rd	-	Monorail	-
Horana	-	-	Bus Priority
Galle	Modernized	-	BRT supported by Marine Drive Extension
Study done by JICA	Colombo based study	As a hub	

- In IMPROVE sphere
 - ✓ Uni-flow traffic scheme with synchronised traffic signals
 - ✓ Improved road surfaces
 - ✓ Pedestrian ways with support to the visually handicapped



□ In IMPROVE sphere (contd...)

- ✓ Railway electrification (63km of key segment + 42km airport link)
- ✓ Strengthened two main arteries with highways
- ✓ Outer circular road to avoid city through traffic



□ In IMPROVE sphere

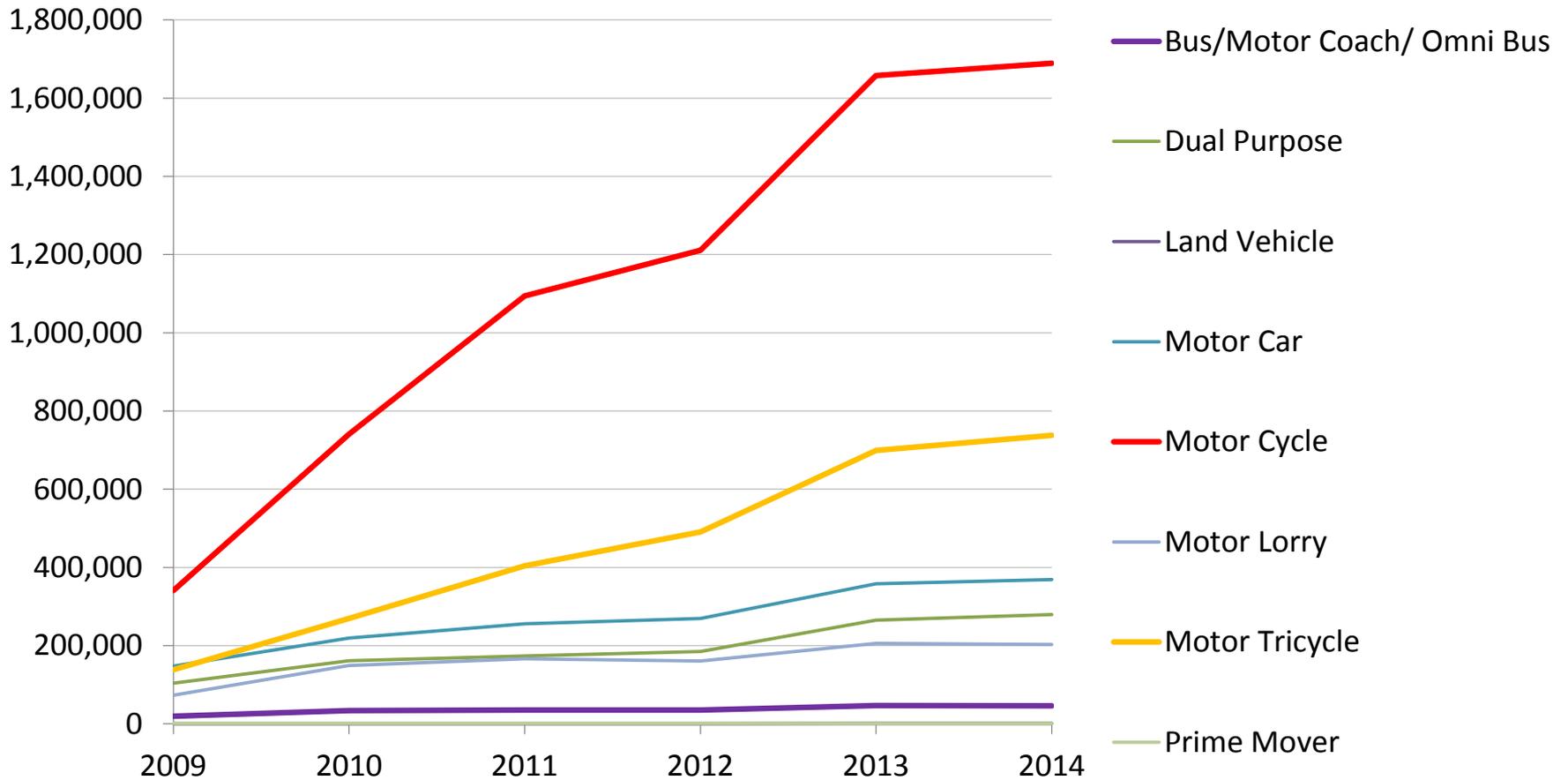
- ✓ Large tax concession on hybrid / electric vehicles (fast growing EV fleet)
- ✓ Special time of use (ToU) tariff for EV charging
- ✓ Phased out leaded gasoline in 2002, introduced 10ppm sulphur Diesel as a premium Diesel in 2014
- ✓ 350 ppm sulphur Diesel to replace bulk Diesel by 2016



- In CROSS CUTTING sphere
 - ✓ Total active fleet undergoing annual emission tests since 2008
 - ✓ Phased out two stroke engines in 2008, and spare parts in 2013



- In CROSS CUTTING sphere (CONTD...)
 - ✓ Road safety committees with wider participation assisting local police stations
 - ✓ Low enforcement for those who violate traffic laws
 - ✓ Speed limits
 - ✓ Increasing Awareness among drivers and pedestrians
 - ✓ Road safety education targeting future citizens
 - ✓ Masks for exposed policemen
 - ✓ Air quality standards monitored in few stations and mobile units
 - ✓ Driving cycles being developed for certain zones
 - ✓ Heavy fines for drink and drive (USD175)
 - ✓ Enhanced parking facilities (5,000 bays – fee levying)
 - ✓ Road side bays with parking meters (pilot project)
 - ✓ Strict compliance of building integrated parking in new developments



Active Fleet 2014 from VET scheme

THANK
YOU

Team Sri Lanka