




UNFCCC SB34 Side Event  
1<sup>st</sup> Findings of New Mechanism FS  
Based on Lao-Japan Cooperation in Transport Sector  
Bonn, Germany 11 Jun 2011

**1. Background (1)**



- Hub of GMS & ASEAN
- Landlocked Country
- Land Area: 236,800 km<sup>2</sup>
- Population: 6,127,910
- GDP per capita: 914 USD
- Vehicles: 1,000,000 Units



Source: Lao Dpt of Statistics (2009)

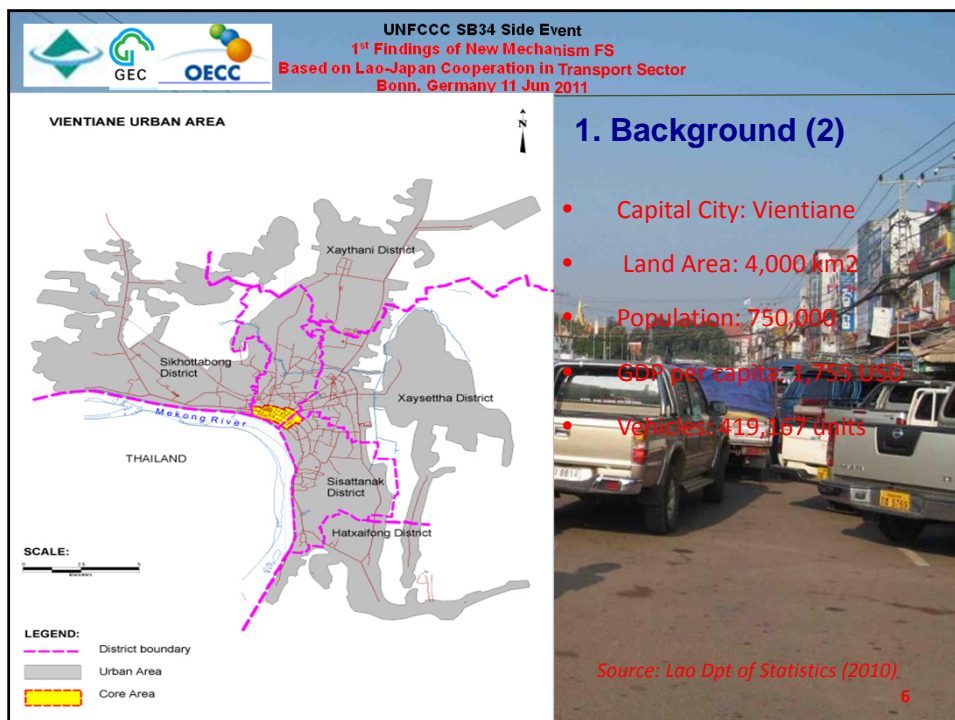
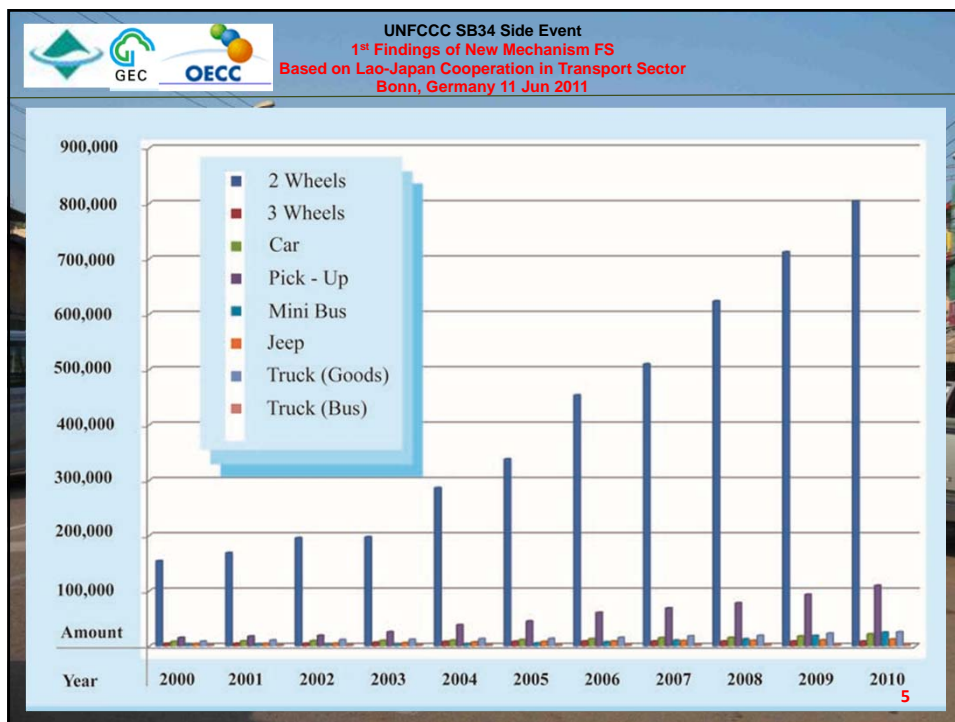
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ສະຖິຕິການຂຶ້ນທະບຽນ ພາຫະນະ ຂອງແຕ່ລະແຂວງ ໃນຂອບເຂດທີ່ວ່າປະເທດ ຮອດເດືອນ 12/2010  
Vehicle Registration Statistics in Lao PDR, December 2010 (by year)

Year	Vehicle Type									Percentage
	Motorcycle		Ligh Vehicle				Truck			
	2 Wheels	3 Wheels	Cars	Pick-up	Mini Bus	Jeep	Goods	Bus	Total	
2000	153,781	4,347	8,045	15,074	2,199	3,970	8,424	1,831	197,671	
2001	168,379	4,405	8,995	17,581	2,603	4,355	10,559	1,899	218,776	11%
2002	195,353	4,405	9,428	19,042	2,691	4,584	11,346	2,042	248,891	14%
2003	196,963	6,407	9,696	25,490	2,729	5,832	11,841	2,164	261,122	5%
2004	285,740	7,871	10,063	38,214	3,777	6,949	13,085	2,179	367,878	41%
2005	337,719	8,043	11,204	45,029	4,882	7,909	13,441	2,199	430,406	17%
2006	453,158	8,441	12,939	60,352	7,236	8,668	15,296	2,200	568,290	32%
2007	509,421	8,518	14,792	68,360	10,355	9,399	17,994	2,242	641,081	13%
2008	623,310	8,460	15,203	77,616	12,675	9,752	19,070	2,520	768,606	20%
2009	711,800	8,624	17,671	93,080	18,634	10,801	23,031	2,707	886,348	15%
2010	804,087	8,542	21,638	109,362	24,727	12,155	25,452	2,825	1,008,788	14%

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## 1. Background (3)

No.	Provinces	Vehicle Type								Total
		Motorcycle		Light Vehicle				Truck		
		2 Wheel	3 Wheel	Car	Pick-up	Mini Bus	Jeep	Goods	Bus	
1	Vientiane Capital	309,659	3,439	17,683	51,618	15,955	8,425	11,482	906	419,167
2	Pongsaly	6,213		21	846	32	57	67	58	7,294
3	Laungnamtha	14,447	18	224	1,580	388	185	317	90	17,249
4	Oudomxay	19,108	168	96	1,598	277	275	445	286	22,253
5	Borkeo	17,868	107	117	2,047	215	94	191	65	20,704
6	Laungprabang	45,821	737	563	5,302	1,280	338	482	220	54,743
7	Xaiboubouly	33,658	77	95	3,377	102	91	791	23	38,214
8	Hauphan	23,177	14	118	1,180	111	194	648	133	25,575
9	Xiengkhaung	22,822	254	246	2,949	388	242	916	83	27,900
10	Vientiane Pro.	38,736	203	296	6,168	750	261	2,350	52	48,816
11	Borikhamxay	20,137	141	213	2,875	379	176	584	86	24,591
12	Khammouane	26,414	678	356	5,439	740	414	2,093	117	36,251
13	Savannakhet	124,181	1,392	899	13,054	2,803	615	2,659	239	145,842
14	Salavanh	16,803	149	49	2,314	172	87	400	28	20,002
15	Champasack	74,754	1,093	561	7,805	1,016	553	1,661	369	87,812
16	Sekong	4,546	20	45	629	32	70	173	19	5,534
17	Attapeu	5,743	52	56	581	87	78	193	51	6,841
Total		804,087	8,542	21,638	109,362	24,727	12,155	25,452	2,825	1,008,788
			812,629				167,882		28,277	

Remark:

In addition registration has been made for UN, Diplomatic, Tourist & Institute of Finance Vehicles, but not included in the statistic.

Almost half of the total vehicles


Vehicle Registration by Province


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## 2. History of EST in Laos

- UNCRD supports since 2004
- 2008 Division of Transport Techniques and Environment "DTE" was established

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<b>2. History of EST in Laos</b>			
<b>Date</b>	<b>Meeting</b>	<b>Results</b>	<b>Organizers</b>
Jan 2004	Policy Dialogue on Transport and Environment (Manila, Philippines)	Manila Statement (Necessity of strategic approach for EST, Foundation of Asian EST Regional Forum)	UNCRD, GOJ, Philippine Gov.
Aug 2005	1st EST Regional Forum (Nagoya)	Aichi Statement (12 components of EST, 13 countries from Asia)	UNCRD, GOJ
Dec 2006	2nd EST Regional Forum (Yogyakarta, Indonesia)	Approval of EST Guideline (14 countries)	UNCRD, GOJ, Indonesia Gov.
Apr 2007	Asian Mayors' Policy Dialogue for the Promotion of EST in Cities	Adoption of Kyoto Declaration (22 cities from 14 countries)	UNCRD, ASEAN, GOJ, IGES

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<b>Date</b>	<b>Meeting</b>	<b>Results</b>	<b>Organizers</b>
Mar 2008	3rd EST Regional Forum (Singapore)	Report of development of national strategies, Co-benefit and climate change (22 countries)	UNCRD, GOJ, Singapore
Nov 2008	2nd Signing on Kyoto Declaration	Additional 14 cities signed on Kyoto Declaration	UNCRD, CAI-Asia, GOJ
Feb 2009	4th EST Regional Forum (Seoul, Korea)	Green Growth, Climate change & Funding mechanisms (Seoul Statement)	UNCRD, Korea, GOJ
Aug 2010	5th EST Regional Forum (Bangkok, Thailand)	Sustainable Transport Goals for 2010-2020 -- Bangkok 2020 Declaration	UNCRD, UNESCAP, Thailand, GOJ






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## 3. Progress of EST Strategy and Action Plan (1)


- Completed the DRAFT
- Screening meeting with the National Environment Committee  
 24 May 2011 chaired by Deputy Prime Minister
- Government is considering for Official Endorsement in the near future





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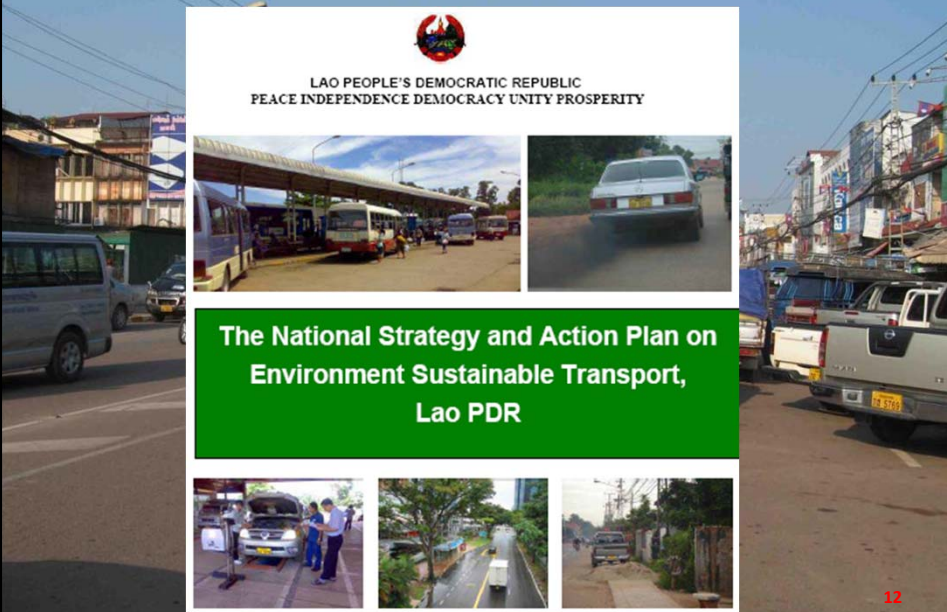


LAO PEOPLE'S DEMOCRATIC REPUBLIC  
 PEACE INDEPENDENCE DEMOCRACY UNITY PROSPERITY

### The National Strategy and Action Plan on Environment Sustainable Transport, Lao PDR



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**3. Progress of EST Strategy and Action Plan (2)**

EST Consists of 9 Thematic Areas

1. Ambient Air Quality Monitoring and Management
2. Vehicle Emission Control
3. Inspection and Maintenance (I/M) of Vehicle
4. Regulation of Fuel Quality and Standard
5. Transport Planning and Travel Demand Management
6. Environmentally and People Friendly Urban Transport Infrastructure Development
7. Traffic Noise Monitoring
8. Information and Public Awareness
9. Gender and Transportation

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**3. Current Activities**

- Implementing Vientiane Urban Transport Master Plan (completed 2008)
- NAMA in Transportation
- CO2 Reduction in Freight Transport
- Vientiane Sustainable Transport Project

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**3.1 Implementing Urban Transport Master Plan (1)**



10 Mar 2011, Signing Ceremony of Exchange of Notes between Japanese Ambassador and Minister of Foreign Affairs

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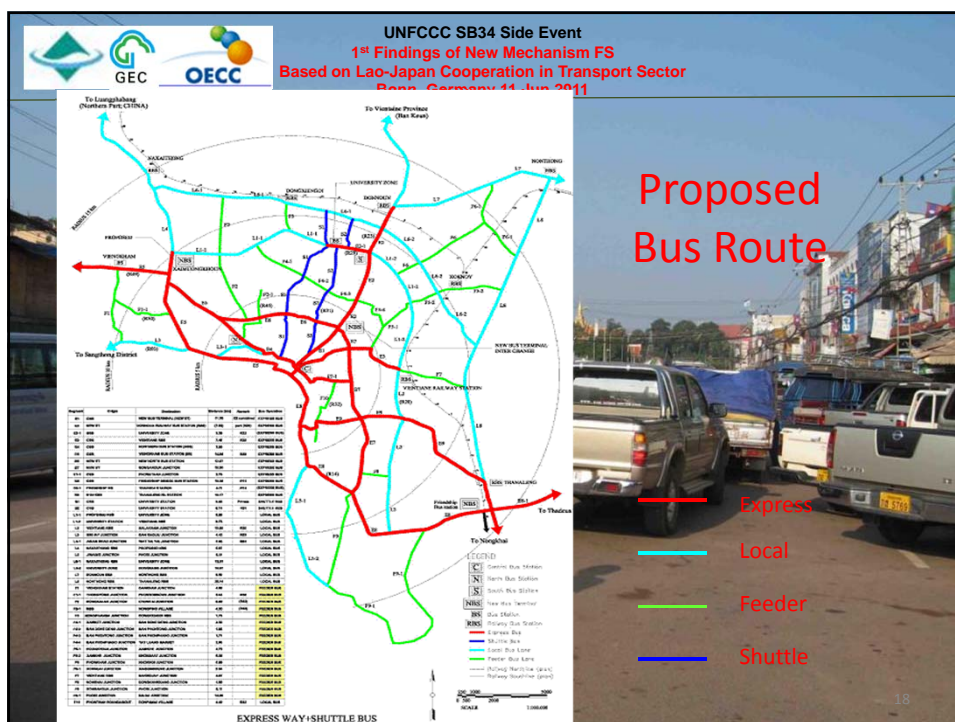
**3.1 Implementing Urban Transport Master Plan**

- JICA continues to support in procurement of 42 "45 seated" buses to be delivered April 2012
- 3 Years of Technical Cooperation to be started September 2011 for
  - Department of Transport
  - Vientiane Department of Public Works and Transport
  - Vientiane State Bus Enterprise



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**3.2 NAMA on Transportation in Lao PDR**

- Ministry of Environment-Japan supporting
- Simulation of Bus Rapid Transit Routes
- CO2 Reduction Estimation
- Possible CDM projects



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**3.3 CO2 Reduction on Freight Transportation**

- Ministry of Economic, Trade and Industry-Japan supporting
- Employing Digital Tachograph (Black Box)
- 3 Months, 1 Month Testing, 1 Month Warning, 1 Month Training
- 2 small size trucks in Laos



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### 3.4 ADB Vientiane Sustainable Transport Project

- Pre-feasibility
- Three components:
  - Traffic Management
  - Public Transport
  - Institutional



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### Study Area – Core Area

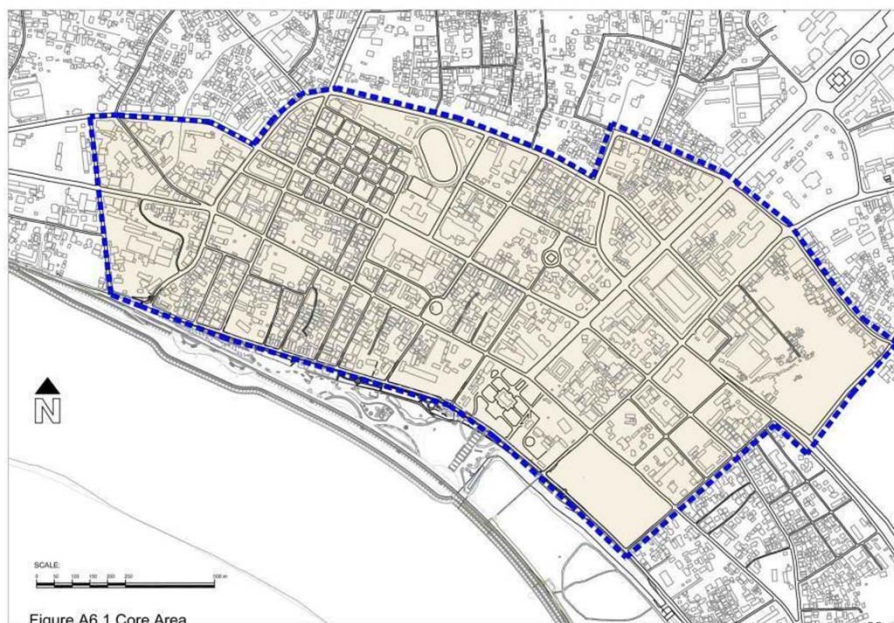


Figure A6.1 Core Area

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## Issues

- Increasing numbers of vehicles in Vientiane
- Congestion in Core Area
- Uncontrolled parking
- Poor traffic enforcement
- Poor quality and coverage of public transport
- Weak and unclear institutional structure for traffic and public transport management

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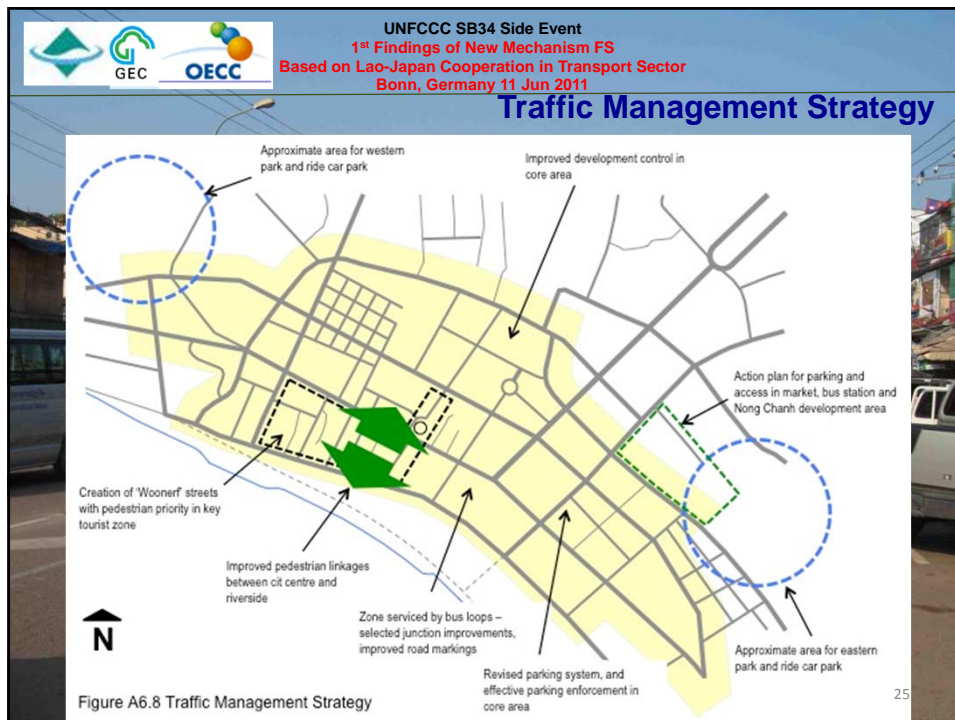


## Traffic Management

- Strategy
  - Employ TDM measures to reduce trips into core area
  - Encourage public transport usage
    - convenient linkage between car parks and bus routes
  - Revise parking arrangements and improve enforcement
  - Improve pedestrian facilities
  - Protect environment in historic core area

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## Traffic Management

### Proposals

- Multi-storey car-park(s) for 'Park and Ride'
- New scheme for on-street parking, including fees and enforcement by parking control officers
- Pedestrian priority streets in tourist zone
- Light-controlled pedestrian crossings
- Improved traffic light equipment and control centre
- Junction and road improvements
- Traffic management action plan for Nong Chanh

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## Public Transport

### Pilot Bus Routes

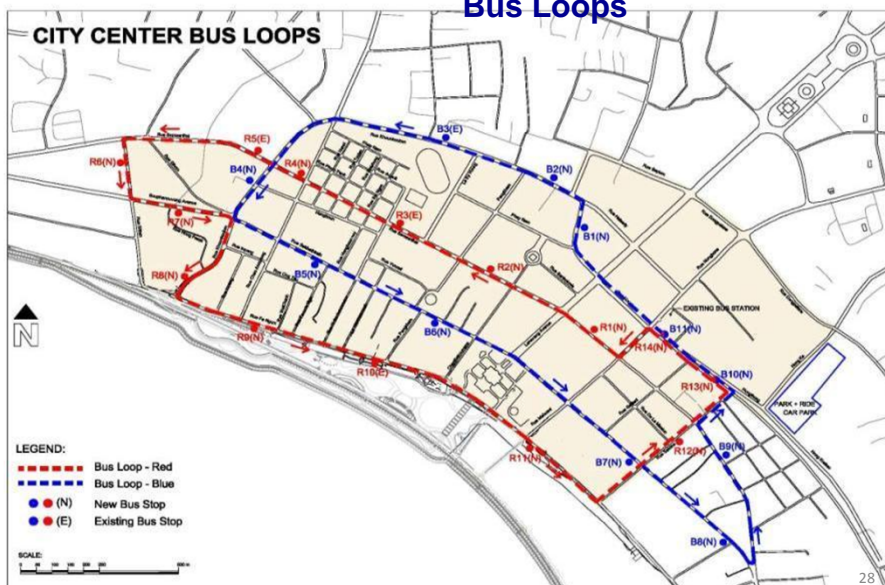
- Providing 'Park and Ride' from car parks at edge of core area
- Small, comfortable, energy-efficient buses
- Two routes within 150m of any point in the core area
- Buses every 5–6 minutes



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## Bus Loops

### CITY CENTER BUS LOOPS



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### 3.4 Progress of ADB VSUTP (1)

- Preparation for the PPTA MOU
  - Duration: 7 Months, 800,000 USD, Nov 2011
  - Implementing: 30 MIL USD
- 2 Additional TAs (Technical Assistance) for 2 Months
  - NMT (Non-Motorized Transit)
  - CCF (Climate Change Fund)

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### 3.4 Progress of ADB VSUTP (2)

- NMT
  - Capacity Building for NMT Planning
  - Preliminary Design for NMT Implementation
  - Funding for NMT Implementation

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### 3.4 Progress of ADB VSUTP

- CCF
- Institutional Improvement
- Feasibility Studies
- Demonstration Projects
- Finding Mechanism for CDM



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