

Eighth Regional EST Forum in Asia

(Integrated Conference of BAQ2014 and Intergovernmental Eighth Regional EST Forum in Asia)

“Next Generation Solutions for Clean Air and Sustainable Transport -Towards a Livable Society in Asia”
19-21 November 2014, Colombo, Sri Lanka

Country Report

(Draft)

<Myanmar>

This country report was prepared by Myanmar as an input for the Eighth Regional EST Forum in Asia. The views expressed herein do not necessarily reflect the views of the United Nations.

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Country EST Report

a) Name of the Country: Myanmar

b) Name, Designation and Line Ministry/Agency Respondent: Dr. Thet Thet Zin, Deputy Minister, Ministry of Environmental Conservation and Forestry

c) List other Line Ministries/Agencies contributing to preparation of the Country Report: Ministry of Transport, Ministry of Rail Transport

With the objective of demonstrating the renewed interest and commitment of Asian countries towards realizing a promising decade (2010-2020) of sustainable actions and measures for achieving safe, secure, affordable, efficient, and people and environment-friendly transport in rapidly urbanizing Asia, the participating countries of the Fifth Regional EST Forum in Asia discussed and agreed on a goodwill and voluntary declaration - **“Bangkok Declaration for 2020 – Sustainable Transport Goals for 2010-2020.”** Subsequently, at the Seventh Regional EST Forum held in Bali in 2013, the participating countries adopted the **“Bali Declaration on Vision Three Zeros- Zero Congestion, Zero Pollution and Zero Accidents towards Next Generation Transport Systems in Asia”** reinforcing the implementation of Bangkok 2020 Declaration (2010-2020) with emphasis to zero tolerance towards congestion, pollution and road accidents in the transport policy, planning and development. Bali Vision Three Zeros calls for a paradigm shift in thinking on the role of motorization and mobility in realizing sustainable development in Asia.

The objective of the Country Reporting is to share among international community the voluntary progress/achievements/initiatives include various challenges faced by countries in implementing each of the underlined goals of the Bangkok 2020 Declaration to realize the Bali Vision Three Zeros - Zero Congestion, Zero Pollution, and Zero Accidents towards Next Generation Transport Systems in Asia. This would help development agencies, donors, development banks in assessing the sustainable transport needs and challenges to better devise their existing as well as future capacity building programs and operations in sustainable transport areas.

It would be also very useful to share any major initiatives, including mega transport projects, transport master plans, special transport corridor development, expansion of railways and rail route developments, etc. which attach due importance to *Bali Vision Three Zeros – Zero Congestion, Zero Pollution, and Zero Accidents*.

Timeline for submission by 1 October 2014

by email to: est@uncrd.or.jp

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Goal No.	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans, development of special transport corridors, in Implementing the Bangkok 2020 Declaration		
I. Strategies to <u>Avoid</u> unnecessary travel and reduce trip distances				
“Avoid” Strategy	1	Formally integrate land-use and transport planning processes and related institutional arrangements at the local, regional, and national levels	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: -Dispute with land owner. -Involvement of some ministries in land use Management.
		(Examples of pilot projects and/or policies developed or under development – include URLs where relevant -The National Transport Master Plan has formulated by the Ministry of Transport with the assistance of JICA in late 2013.	
			Important actions you will carry out in 2014~2015 -	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans, development of special transport corridors, in Implementing the Bangkok 2020 Declaration	
“Avoid” Strategy	2 Achieve mixed-use development and medium-to-high densities along key corridors within cities through appropriate land - use policies and provide people - oriented local access, and actively promote transit-oriented development (TOD) when introducing new public transport infrastructure	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: -Requirement of public transport projects. -Weakness in systematic transport service Management. -Weakness of infrastructure for mixed-use development .
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant -The Ministry of Transport has formulated the National Transport Master Plan. Moreover, Multimodal Transport Law was enacted in last April.	
		Important actions you will carry out in 2014~2015 —	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans, development of special transport corridors, in Implementing the Bangkok 2020 Declaration	
“Avoid” Strategy	3 Institute policies, programmes, and projects supporting Information and Communications Technologies (ICT), such as internet access, teleconferencing, and telecommuting, as a means to reduce unneeded travel	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: -Technical constraint. -Financial constraint. -HRD requirement for ICT.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant -Efforts are being made for the majority to get access to internet.	
		Important actions you will carry out in 2014~2015 -	
II. Strategies to <u>Shift</u> towards more sustainable modes			

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Goal No.	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans, development of special transport corridors, in Implementing the Bangkok 2020 Declaration	
“Shift” Strategy	4 Require Non-Motorized Transport (NMT) components in transport master plans in all major cities and prioritize transport infrastructure investments to NMT, including wide-scale improvements to pedestrian and bicycle facilities, development of facilities for intermodal connectivity, and adoption of complete street design standards, wherever feasible	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: -Lack of knowledge about the advantages of NMT such as air pollution control, noise . pollution control, safety and congestion. -Weakness of environmental concept in NMT. -Less consideration for NMT in the ongoing urban transport schemes.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant -Non-motorized Transport was promoted in Mandalay.	
		Important actions you will carry out in 2014~2015 -	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans, development of special transport corridors, in Implementing the Bangkok 2020 Declaration	
“Shift” Strategy	5 Improve public transport services including high quality and affordable services on dedicated infrastructure along major arterial corridors in the city and connect with feeder services into residential communities	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: -Budget difficulties to introduce MRT. -Requirement of wider prepaid card used in city transport system.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant -Prepaid card system has conducted in Yangon. -Circular rail line is upgraded in Yangon to improve Yangon urban Transportation system.	
		Important actions you will carry out in 2014~2015 —	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans, development of special transport corridors, in Implementing the Bangkok 2020 Declaration	
“Shift” Strategy	<p>6 Reduce the urban transport mode share of private motorized vehicles through Transportation Demand Management (TDM) measures, including pricing measures that integrate congestion, safety, and pollution costs, aimed at gradually reducing price distortions that directly or indirectly encourage driving, motorization, and sprawl</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Challenges faced in implementation:</p> <ul style="list-style-type: none"> -Inadequate car parking area. -TDM need in peak hours. -Public to obey the traffic Rule and Regulations. -Weakness of imposing fine for causing road Congestion.
		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <ul style="list-style-type: none"> -the system of imposing fine for causing road congestion is conducted. -Toll fees are collected in Expressway. 	
		<p>Important actions you will carry out in 2014~2015</p> <p style="text-align: center;">—</p>	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans, development of special transport corridors, in Implementing the Bangkok 2020 Declaration	
“Shift” Strategy	<p>7 Achieve significant shifts to more sustainable modes of inter-city passenger and goods transport, including priority for high-quality long distance bus, inland water transport, high-speed rail over car and air passenger travel, and priority for train and barge freight over truck and air freight by building supporting infrastructure such as dry inland ports</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Challenges faced in implementation:</p> <p>-Slow movement of goods.</p> <p>-Higher expenses.</p>
		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <p>-Regarding Freight Transport, feasibility study has carried out in Yangon and Mandalay City. Construction will be initiated in 2015.</p> <p>-Regarding Passenger Transport, feasibility study has finished to upgrade the trunk line of Yangon-Mandalay rail transport and will be completed between 2015 and 2020.</p>	
		<p>Important actions you will carry out in 2014~2015</p> <p style="text-align: center;">—</p>	
<p>III. Strategies to <u>Improve</u> transport practices and technologies</p>			

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Goal No.	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans, development of special transport corridors, in Implementing the Bangkok 2020 Declaration	
“Improve” Strategy	8 Diversify towards more sustainable transport fuels and technologies , including greater market penetration of options such as vehicles operating on electricity generated from renewable sources, hybrid technology, and natural gas	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: -Requirement for using CNG for all taxi.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant -Replacing CNG used buses for public transportation in Yangon.	
		Important actions you will carry out in 2014~2015 —	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans, development of special transport corridors, in Implementing the Bangkok 2020 Declaration	
“Improve” Strategy	9 Set progressive, appropriate, and affordable standards for fuel quality, fuel efficiency, and tailpipe emissions for all vehicle types, including new and in-use vehicles	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: -Need to review and modify the specific standardization for all in-use vehicles. -Lack of fuel standards for automobile.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant -Road Transport Administration Department under the Ministry of Rail Transport follows the ASEAN Standard (50% Bosch Unit) for tailpipe emission for all vehicle types.	
		Important actions you will carry out in 2014~2015 —	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans, development of special transport corridors, in Implementing the Bangkok 2020 Declaration	
“Improve” Strategy	10 Establish effective vehicle testing and compliance regimes, including formal vehicle registration systems and appropriate periodic vehicle inspection and maintenance (I/M) requirements, with particular emphasis on commercial vehicles, to enforce progressive emission and safety standards, resulting in older polluting commercial vehicles being gradually phased-out from the vehicle fleet, as well as testing and compliance regimes for vessels	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: -Need for vehicle inspection equipment for emission. -Limit in using more CNG for commercial vehicles.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant -Every three year inspection for newly cars and yearly inspection for other cars. -Commercial vehicles which are new or in-used cars are inspected every year. -Exhaust Emission standard is fixed at ASEAN Standard (<50% Bosch Unit). -Road Transport Administration Department is now conducting the End of life Vehicle Scrapping Program starting in September 2011.	
		Important actions you will carry out in 2014~2015 —	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans, development of special transport corridors, in Implementing the Bangkok 2020 Declaration	
“Improve” Strategy	11 Adopt Intelligent Transportation Systems (ITS), such as electronic fare and road user charging systems, transport control centres, and real-time user information, when applicable	Any action had been taken so far? <input checked="" type="checkbox"/> Not yet <input type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: -Requirement for technology and infrastructure.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant -ITS is not implemented yet but trainings were held by JICA and KOICA.	
		Important actions you will carry out in 2014~2015 —	
“Improve” Strategy	12 Achieve improved freight transport efficiency, including road, rail, air, and water, through policies, programmes, and projects that modernize the freight vehicle technology, implement fleet control and management systems, and support better logistics and supply	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: -Weakness of infrastructure. -Requirement of HRD.

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	chain management	<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <p>-Comprehensive National Transport Master Plan has formulated in late 2013. It covers all transport sectors including freight transport.</p>	
		<p>Important actions you will carry out in 2014~2015</p> <p style="text-align: center;">—</p>	
IV. <u>Cross-cutting</u> strategies			
“Cross-Cutting”	13 Adopt a zero-fatality policy with respect to road, rail, and waterway safety and implement appropriate speed control, traffic calming strategies, strict driver licensing, motor vehicle registration, insurance requirements, and better post-accident care oriented to significant reductions	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Challenges faced in implementation:</p> <p>-Numbers of cars are increasing year by year especially in Yangon.</p> <p>-Aggressive driving manner of drivers.</p> <p>-Weakness of road, rail and maritime transport .</p>

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Goal No.	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans, development of special transport corridors, in Implementing the Bangkok 2020 Declaration	
	in accidents and injuries	<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <p>-National Road Safety Council (NRSC) has already established and National Road Safety Action Plan has also already formulated .</p>	
		<p>Important actions you will carry out in 2014~2015</p> <p style="text-align: center;">—</p>	
“Cross-Cutting” Strategy	14 Promote monitoring of the health impacts from transport emissions and noise, especially with regard to incidences of asthma, other pulmonary diseases, and heart disease in major cities, assess the economic impacts of air pollution and noise, and devise mitigation strategies,	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Challenges faced in implementation:</p> <p>-Lack of fuel standard for automobile.</p> <p>-Weakness of maintenance for vehicles.</p> <p>-Lack of public awareness on health impacts from transport emissions and noise.</p>

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Goal No.	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans, development of special transport corridors, in Implementing the Bangkok 2020 Declaration	
	especially aiding sensitive populations near high traffic concentrations	<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <ul style="list-style-type: none"> -End-of-life vehicles scrapping program is conducted. -Construction overpass-bridges in congested area of Yangon. -Using CNG and Natural Gas for public transport . -NNT will promoted in Mandalay. -Track improvement project for Yangon-Mandalay rail transportation. -Upgrading of circular-rail line in Yangon. 	
		<p>Important actions you will carry out in 2014~2015</p> <p style="text-align: center;">—</p>	
“Cross-Cutting”	15 Establish country-specific, progressive, health-based, cost-effective, and enforceable air quality and noise standards, also taking into account the WHO guidelines, and mandate monitoring and reporting in order to reduce the occurrence of days in which pollutant	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Challenges faced in implementation:</p> <ul style="list-style-type: none"> -Weakness of expertise to develop environmental quality standard. -Insufficient data on air quality .

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	levels of particulate matter, nitrogen oxides, sulphur oxides, carbon monoxide, and ground-level ozone exceed the national standards or zones where noise levels exceed the national standards, especially with regard to environments near high traffic concentrations	<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant.</p> <ul style="list-style-type: none"> -National Environmental Conservation Committee was reformed again in 2013. -Ministry of Environmental Conservation and Forestry was extended in place of Ministry of Forestry in 2011. -Environmental Conservation Department was established in 2012. -At present ECD is developing Environmental Quality Guideline based on the Environmental, Health and Safety Guidelines developed by IFC of the World Bank Group. It is in the draft stage. ADB provide technical assistance to develop the Environmental Quality Guideline. 	
		<p>Important actions you will carry out in 2014~2015</p> <p>Legislative planning meeting for air quality management held in ECD in collaboration with German Technical Cooperation (GIZ) in last August .</p>	
“Cross-Cutting” Strategy	16 Implement sustainable low-carbon transport initiatives to mitigate the causes of global climate change and to fortify national energy security , and to report the inventory of all greenhouse gases emitted from the transport sector in the National Communication to the UNFCCC	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Challenges faced in implementation:</p> <p>-Lack of inventory for emission of automobiles and rail transport sector .</p>

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		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <ul style="list-style-type: none"> -Myanmar Climate Change Alliance was established in 2013. - National Adaptation Program of Action launched in 2012. -Myanmar Energy Policy will be issued very soon. 	
		<p>Important actions you will carry out in 2014~2015</p> <p style="text-align: center;">—</p>	
“Cross-Cutting” Strategy	<p>17 Adopt social equity as a planning and design criteria in the development and implementation of transport initiatives, leading to improved quality, safety and security for all and especially for women, universal accessibility of streets and public transport systems for persons with</p>	<p>Any action had been taken so far?</p> <p><input checked="" type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Challenges faced in implementation:</p> <p style="text-align: center;">—</p>

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	disabilities and elderly, affordability of transport systems for low-income groups, and up-gradation, modernization and integration of intermediate public transport	<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <p>-Rail Infrastructure including easy assessment for the disable and the senior people to be implemented.</p>		
		Important actions you will carry out in 2014~2015		
		—		
“Cross-Cutting” Strategy	18	Encourage innovative financing mechanisms for sustainable transport infrastructure and operations through measures, such as parking levies, fuel pricing, time-of-day automated road user charging, and public-private partnerships such as land value capture, including consideration of carbon markets, wherever feasible	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Challenges faced in implementation:</p> <p>-Car parking area shortage in cities.</p>
			<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <p>-Parking Levies are conducted by private.</p>	

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		Important actions you will carry out in 2014~2015 —	
“Cross-Cutting” Strategy	19 Encourage widespread distribution of information and awareness on sustainable transport to all levels of government and to the public through outreach, promotional campaigns, timely reporting of monitored indicators, and participatory processes	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: -Need to disseminate the sustainable transport to every level. -Weakness of officials in paying attention to the importance of environmentally friendly transport.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant —	
		Important actions you will carry out in 2014~2015 —	

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“Cross-Cutting” Strategy	20 Develop dedicated and funded institutions that address sustainable transport-land use policies and implementation, including research and development on environmentally-sustainable transport, and promote good governance through implementation of environmental impact assessments for major transport projects	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: -Lack of Research and Development on Environmentally-Sustainable Transport. -Weakness of expertise to prepare EIA procedure.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant -EIA procedure is in the draft stage.	
		Important actions you will carry out in 2014~2015 —	