

10th Regional EST Forum in Asia, 14-16 March 2017, Vientiane, Lao PDR

Intergovernmental Tenth Regional Environmentally Sustainable Transport (EST) Forum in Asia

2030 Road Map for Sustainable Transport ~Aligning with Sustainable Transport Development Goals (SDGs)~

Country Report

(Draft)

Malaysia

This country report was prepared by the Government of Malaysia as an input for the Tenth 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 (covering from Nepal EST Forum 2015 to Lao EST Forum 2017)

- a) Name of the Country: **MALAYSIA**
- b) Name, Designation and Line Ministry/Agency Respondent:
- **Dato' Dr. Ahmad Kamarulnajib Bin Che Ibrahim**
Director General
Department of Environment, Ministry of Natural Resources and Environment (NRE)
 - **Mohd Aidi Bin Mohd Hussin**
Deputy Under-Secretary
Ministry of Transport
- c) List other Line Ministries/Agencies contributing to preparation of the Country Report:
- d) Reporting period: **2015-2017**

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.**” 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. Subsequently, EST member countries adopted the “**Colombo Declaration**” for the promotion of next generation low-carbon transport solutions in Asia.

*Each member country of the Forum is kindly requested to prepare a consolidated country report (by **15 January 2017**) reflecting how EST trends and developments have taken place in the country from Nepal EST Forum 2015 to Lao PDR EST Forum 2017 around the Goals of the Bangkok 2020 Declaration as an interim assessment following the below format. You are most welcome to add extra pages or sections to share*

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any major on-going initiatives or future plans, including mega transport projects, transport master plans, special transport corridor development, expansion of railways and rail route developments, etc.

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.

Timeline for submission by 15 January 2017.

by email to: est@uncrd.or.jp

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 from Nepal EST Forum 2015 to Lao EST Forum 2017.		
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 type="checkbox"/> Some progress (design – piloting) <input checked="" type="checkbox"/> <u>Largely in Place</u> <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation:

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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 from Nepal EST Forum 2015 to Lao EST Forum 2017.
		<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ol style="list-style-type: none"> 1. Policy Guidelines for Transit Oriented Development (TOD) completed on 26 Nov 2014. 2. The National Physical Plan has been finalized and will be published by Federal Department of Town and Country Planning at the National level – transport sector is part of the plan. (http://www.townplan.gov.my/content.php?ID=41) 3. The National Physical Plan (NPP) has identified four (4) Conurbations or City Regions that shall be planned and developed as integrated regions. 4. Land use plan is highlighted in Land Public Transport Master Plan (http://www.mymrt.com.my/cms/upload_files/report/report_download_000032.pdf)
		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <ol style="list-style-type: none"> 1. To optimize utilization of land and natural resources for sustainable development including transport. 2. TOD Projects at selected LRT Stations developed by SPNB in Klang Valley.
		<p>What importance does this particular EST Goal attach in your country’s on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <ol style="list-style-type: none"> 1. To achieve SDG Goal 9 which is to be connected.

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2	<p>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,</p> <p>and actively promote transit-oriented development (TOD) when introducing new public transport infrastructure</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some progress (design – piloting)</p> <p><input checked="" type="checkbox"/> <u>Largely in Place</u></p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Barriers/Challenges faced in implementation:</p>
		<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p><u>1. Policy Guidelines for Transit Oriented Development (TOD) completed on 26 Nov 2014.</u></p>	
		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p><u>1. TOD Projects at selected LRT Stations developed by SPNB in Klang Valley.</u></p> <p><u>2. The development of KL Sentral as a transit hub (http://mrcbland.com.my/project/kl-sentral/).</u></p> <p><u>3. TOD Projects at selected MRT Stations</u></p> <p><u>(http://www.mymrt.com.my/cms/upload_files/article/article_download_001003.pdf)</u></p>	

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		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p>1. To achieve SDG Goal 9 which is to be connected. 2. To achieve SDG Goal 11 with safe and organized transportation.</p> <p>• <i>Preparation of Environmental Impact Assessment (EIA) is a compulsory requirement for infrastructure projects, including major transport project (stated as one the EIA's prescribed activities in Malaysian Environmental Quality Act 1974 (Act 127).</i></p>		
“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 type="checkbox"/> Some progress (design – piloting) <input checked="" type="checkbox"/> <u>Largely in Place</u> <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation:

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		<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p>1. Government Transformation Program – National Key Result Area : to improve urban public transport via information and technologies : bus, rail, taxi, integration and travel demand) (http://gtp.pemandu.gov.my/gtp/Improving_Urban_Public_Transport-@-GTP_2@0_Improving_Urban_Public_Transport.aspx)</p>
		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <ol style="list-style-type: none"> 1. Performance Monitoring Hub System 2. Centralised Taxi Service System [CTSS] 3. Journey Planner 4. Integrated Ticketing System
		<p>What importance does this particular EST Goal attach in your country’s on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <ol style="list-style-type: none"> 1. To achieve SDG Goal 9 which is to be connected and supported by technology. 2. To achieve SDG Goal 11 with organized transportation.

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II. Strategies to <u>Shift</u> towards more sustainable modes				
“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	Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input checked="" type="checkbox"/> <u>Largely in Place</u> <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation:

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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 from Nepal EST Forum 2015 to Lao EST Forum 2017.
	pedestrian and bicycle facilities, development of facilities for intermodal connectivity, and adoption of complete street design standards, wherever feasible	<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p>1. Local Authority has made special effort to promote safe walking and cycling:</p> <p>a) Putrajaya Structure Plan: Sustainable Putrajaya 2025</p> <ul style="list-style-type: none"> • (a statutory plan prepared under Act 172, The Town and Country Planning Act 1976) • Policy 6: Implementing Intergrated Transportation System with an initiative identified to encourage pedestrian and cycling . <p>b) Putrajaya Green City 2025 http://2050.nies.go.ip/report/file/lcs_asialocal/Putrajaya_2012.pdf</p> <ul style="list-style-type: none"> • Action 1 : Intergrated City Planning & Management has identified these sub-actions <ul style="list-style-type: none"> ○ Make Cycling as preferred transport option (bikeable city) ○ Make Walking as preferred transport option (walkable city) <p>c) Kuala Lumpur Free Car Morning (http://www.klcarfreemorning.com/)</p> <p>2. Local Authority has also provide facility infrastructure to promote walking and cycling (covered walkway and bicycle lane)</p>

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		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <ol style="list-style-type: none"> 1. Implementation of car free morning. 2. Development of walkway and bicycle lane by Local Authority (http://www.dbkl.gov.my/pskl2020/english/urban_design_and_landscape/) (http://carbons.org/uploads/tx_carbonndata/4.CAM4_Eng_SHAH%20ALAM%20BICYCLE%20LANE%20(1).pdf)
		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <ol style="list-style-type: none"> 1. To achieve SDG Goal 9 which is to be connected. 2. To achieve SDG Goal 11 with safe and organized transportation.

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“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 type="checkbox"/> Some progress (design – piloting) <input checked="" type="checkbox"/> <u>Largely in Place</u> <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation:
		Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant. 1. The Implementation of Government Transformation Program – National Key Result Area : to improve urban public transport: bus, rail, taxi, integration and travel demand. http://gtp.pemandu.gov.my/gtp/Improving Urban Public Transport-@-GTP 2@0 Improving Urban Public Transport.aspx 2. National Land Public Transport Master Plan http://www.spad.gov.my/about-spad/national-land-public-transport-master-plan	

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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 from Nepal EST Forum 2015 to Lao EST Forum 2017.
		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <ul style="list-style-type: none"> • Several projects and programs being developed to improve public transport: <ol style="list-style-type: none"> i. MRT Projects; ii. To extend commuter services to Johor; iii. IT based projects (Journey planner, Centralised taxi service systems); iv. East Coast Rail Link
		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <ol style="list-style-type: none"> 1. To achieve SDG Goal 9 which is to be connected. 2. To achieve SDG Goal 11 with organized transportation.

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“Shift” Strategy	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	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> <u>Some progress</u> (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation:
		Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant. The Greater KL/ Klang Valley Land Public Transport Masterplan has underlined the objectives and strategies towards implementing travel demand management measures for the Greater KL area. http://www.spad.gov.my/sites/default/files/1_main_doc_greater_kuala_lumpur_klang_valley_land_public_transport_master_plan_gklkv_lptmp_june2013.pdf	
		Examples of important actions that you plan to carry out in next year (2017~2018) <ul style="list-style-type: none"> • Journey planner. 	

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		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p>1. To achieve SDG Goal 9 which is to be connected. 2. To achieve SDG Goal 11 with organized transportation.</p>	
“Shift” Strategy	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	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input checked="" type="checkbox"/> <u>Largely in Place</u> <input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	Barriers/Challenges faced in implementation:

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	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>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> • Policies and Master Plan has been established with target to achieve high percentage of modal share and good trade facilitation: <ol style="list-style-type: none"> i. The Implementation of Government Transformation Program – National Key Result Area : to improve urban public transport: bus, rail, taxi, integration and travel demand. (http://gtp.pemandu.gov.my/gtp/Improving_Urban_Public_Transport-@-GTP_2@0_Improving_Urban_Public_Transport.aspx). ii. National Land Public Transport Master Plan (http://www.spad.gov.my/about-spad/national-land-public-transport-master-plan). iii. National Logistic Masterplan (http://www.mot.gov.my/en/logistic/the-logistics-and-trade-facilitation-masterplan). <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <ul style="list-style-type: none"> • Several projects and programs being developed to improve public transport: <ol style="list-style-type: none"> i. MRT Projects; ii. To extend commuter services to Johor; iii. IT based projects (Journey planner, Centralised taxi service systems); iv. East Coast Rail Link. • Several projects and programs being developed to improve transportation of goods (19 action items).

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		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p>1. To achieve SDG Goal 9 which is to be connected. 2. To achieve SDG Goal 11 with organized transportation.</p>	
III. Strategies to <u>Improve</u> transport practices and technologies			
"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	Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input checked="" type="checkbox"/> <u>Largely in Place</u> <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation:

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	technology, and natural gas	<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> • Ministry of Energy, Green technology and Water has been finalizing the National Green Technology Master Plan which includes transport sector. 3 approaches to reduce carbon emission will be implemented through: <ol style="list-style-type: none"> i. Public Transport; ii. Private Transportation; and iii. Cleaner fuel. <p style="margin-left: 40px;">(http://www.kettha.gov.my/portal/index.php?r=kandungan/index&menu1_id=3&menu2_id=32&menu3_id=66#)</p> • Malaysia Biennials Update Report to UNFCCC has stated mitigation to reduce carbon emission via public transport and cleaner fuel. <p style="margin-left: 40px;">(http://www.nre.gov.my/sites/TNC-BUR/Documents/BUR_Malaysia_Final.pdf)</p>
		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <ol style="list-style-type: none"> i. To promote Biodiesel (B10); ii. To promote CNG; and iii. To promote EEV.

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		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <ol style="list-style-type: none"> 1. To achieve SDG Goal 9 which is to be connected. 2. To achieve SDG Goal 11 with organized transportation. 3. To achieve SDG Goal 13 which is to help mitigate and adapt to climate change. 	
"Improve" Strategy	<p>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</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some progress (design – piloting)</p> <p><input checked="" type="checkbox"/> <u>Largely in Place</u></p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Barriers/Challenges faced in implementation:</p>

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		<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p>Department of Environment (DOE) Malaysia is currently review the current exhaust emission standards and regulation to have a more stringent and comprehensive regulation for all types of motor vehicles including new model and in-use vehicles.</p> <p><u>Additional Initiatives:</u></p> <ul style="list-style-type: none"> i. The National Green Technology Master Plan has stated promotions to the usage of biodiesel, higher fuel standard and compressed natural gas. ii. Implementation of the petrol RON97 (Euro4M) requirements of the Government's initiative to improve air quality. iii. Enforcement of 7 Acts under the United Nations (UN), related to vehicle emission and sound of the motor vehicle controls via the process of Vehicle Type Approval (VTA).

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		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>A. Implementation of better quality of fuel:</p> <ul style="list-style-type: none"> i. Petrol RON95 EURO2M will improve to EURO4M by 2018; and ii. Diesel EURO2M will improve to EURO5 by 2020. <p>B. Tailpipe emissions standard for vehicle type approval for new model:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-left: 20px;"> <thead> <tr> <th style="width: 30%; text-align: center;">Type</th> <th style="width: 35%; text-align: center;">Current Standards</th> <th style="width: 35%; text-align: center;">New Standards</th> </tr> </thead> <tbody> <tr> <td><i>Motorcycle exhaust emission</i></td> <td style="text-align: center;">UNR40.EURO3 (Since 2016)</td> <td style="text-align: center;">UNR40.EURO4 (targeted 2020)</td> </tr> <tr> <td><i>Motorcycle exhaust noise</i></td> <td style="text-align: center;">UNR41.03 (Since 2016)</td> <td style="text-align: center;">UNR41.04 (targeted 2020)</td> </tr> <tr> <td><i>Petrol engine exhaust emission</i></td> <td style="text-align: center;">EURO2 (Since 1996)</td> <td style="text-align: center;">EURO4 (targeted 2018)</td> </tr> <tr> <td><i>Diesel engine exhaust emission</i></td> <td style="text-align: center;">EURO1 (since 1996)</td> <td style="text-align: center;">EURO4 (targeted 2020)</td> </tr> </tbody> </table>	Type	Current Standards	New Standards	<i>Motorcycle exhaust emission</i>	UNR40.EURO3 (Since 2016)	UNR40.EURO4 (targeted 2020)	<i>Motorcycle exhaust noise</i>	UNR41.03 (Since 2016)	UNR41.04 (targeted 2020)	<i>Petrol engine exhaust emission</i>	EURO2 (Since 1996)	EURO4 (targeted 2018)	<i>Diesel engine exhaust emission</i>	EURO1 (since 1996)	EURO4 (targeted 2020)
Type	Current Standards	New Standards															
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		<p>C. Tailpipe emission standards for in-use vehicles:</p> <table border="1" style="margin-left: 40px; border-collapse: collapse; width: 80%;"> <thead> <tr> <th style="text-align: center;">Type</th> <th style="text-align: center;">Current Standards</th> <th style="text-align: center;">New Standards</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><i>Motorcycle exhaust emission</i></td> <td style="text-align: center;">CO:4.5% (since 2003)</td> <td style="text-align: center;">CO:3.5% (targeted 2020)</td> </tr> <tr> <td style="text-align: center;"><i>Petrol engine exhaust emission</i></td> <td style="text-align: center;">CO:3.5% HC:600ppm (since 1996)</td> <td style="text-align: center;">N.A</td> </tr> <tr> <td style="text-align: center;"><i>Diesel engine exhaust emission</i></td> <td style="text-align: center;">50% opacity (since 1996)</td> <td style="text-align: center;">N.A</td> </tr> </tbody> </table> <p><u>Additional Info:</u> The implementation and monitoring of rules and programs stated above.</p> <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <ol style="list-style-type: none"> 1. To achieve SDG Goal 9 which is to be connected. 2. To achieve SDG Goal 11 with organized transportation. 3. To achieve SDG Goal 13 which is to help mitigate and adapt to climate change. 	Type	Current Standards	New Standards	<i>Motorcycle exhaust emission</i>	CO:4.5% (since 2003)	CO:3.5% (targeted 2020)	<i>Petrol engine exhaust emission</i>	CO:3.5% HC:600ppm (since 1996)	N.A	<i>Diesel engine exhaust emission</i>	50% opacity (since 1996)	N.A
Type	Current Standards	New Standards												
<i>Motorcycle exhaust emission</i>	CO:4.5% (since 2003)	CO:3.5% (targeted 2020)												
<i>Petrol engine exhaust emission</i>	CO:3.5% HC:600ppm (since 1996)	N.A												
<i>Diesel engine exhaust emission</i>	50% opacity (since 1996)	N.A												

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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 from Nepal EST Forum 2015 to Lao EST Forum 2017.	
‘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	Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input checked="" type="checkbox"/> <u>Largely in Place</u> <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation:

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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 from Nepal EST Forum 2015 to Lao EST Forum 2017.
	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	<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> • The Government has signed Concession Agreement with PUSPAKOM, the service provider for Malaysian Periodic Technical Inspection (PTI). The KPIs has been stated as a mechanism for PUSPAKOM continual improvement, which will lead to provide excellent services to the public as well as ensuring roadworthy of vehicles on the roads • PUSPAKOM: www.puspakom.com.my • Puspakom has been given concessions by the Government to carry out an inspection of commercial vehicles. All equipment and standards used by Puspakom is based on international standard, as suggested by the International Motor Vehicle Inspection Committee (CITA). While for the smoke inspection standards as this has been set by the Department of Environment (DOE) and also meet the requirement of the United Nations Regulation (UNR83) For Emission. The RTD also monitoring the inspections that were carried out by Puspakom • Commercial vehicle mandatory inspection implemented on 1994. <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <ul style="list-style-type: none"> • To monitor the implementation of Periodic Technical Inspection.

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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 from Nepal EST Forum 2015 to Lao EST Forum 2017.		
		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <ol style="list-style-type: none"> 1. To achieve SDG Goal 9 which is to be connected. 2. To achieve SDG Goal 11 with organized transportation. 3. To achieve SDG Goal 13 which is to help mitigate and adapt to climate change. 		
"Improve" Strategy	11	<p>Adopt Intelligent Transportation Systems (ITS), such as electronic fare and road user charging systems, transport control centres, and real-time user information, when applicable</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> <u>Some progress</u> (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>Barriers/Challenges faced in implementation:</p>
			<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> • Ministry of Works plan to establish ITS Management Centre; • Real Time Information System is being developed using apps known as Journey Planner. 	

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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 from Nepal EST Forum 2015 to Lao EST Forum 2017.	
		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <ul style="list-style-type: none"> • Control Centre for ITS; • Journey Planner. 	
		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <ol style="list-style-type: none"> 1. To achieve SDG Goal 9 which is to be connected. 2. To achieve SDG Goal 11 with organized transportation. 	
"Improve" Strategy	<p>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</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some progress (design – piloting)</p> <p><input checked="" type="checkbox"/> <u>Largely in Place</u></p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Barriers/Challenges faced in implementation:</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 from Nepal EST Forum 2015 to Lao EST Forum 2017.
	and management systems, and support better logistics and supply chain management	<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> • National Logistic Masterplan has outlined 5 strategic shifts to improve logistics and trade facilitation: <ol style="list-style-type: none"> i. Hub & spoke; ii. Value added output; iii. Supply chain innovations; iv. Global SC convergence; v. Technology and human capital. <p>http://www.mot.gov.my/en/logistic/the-logistics-and-trade-facilitation-masterplan.</p> <hr/> <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <ul style="list-style-type: none"> • Several projects and programs being developed to improve transportation of goods (19 action items). <hr/> <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <ol style="list-style-type: none"> 1. To achieve SDG Goal 9 which is to be connected. 2. To achieve SDG Goal 11 with organized transportation.

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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 from Nepal EST Forum 2015 to Lao EST Forum 2017.		
IV. Cross-cutting strategies				
“Cross-Cutting” Strategy	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 in accidents and injuries	Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input checked="" type="checkbox"/> <u>Largely in Place</u> <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation:
			Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.	
			Examples of important actions that you plan to carry out in next year (2017~2018)	
		<ul style="list-style-type: none"> • Road Safety Plan of Malaysia 2014-2020 (RSPM) formulated to address all matters related to road safety in the country. RSPM is a safe system approach adopted from the United Nations Global Decade of Action For Road Safety which aim to reduce the number of predicted “Business as Usual” fatalities (10,716 fatalities) by 50% in 2020 to 5,358 fatalities. (http://jkjr.gov.my/en/muat_turun/func-startdown/121/) • Aviation and maritime sector are tied with rules and regulations under each international body respectively (i.e.: International Civil Aviation Organization and International maritime Organization). 		
		<ul style="list-style-type: none"> • Road Safety Plan of Malaysia 2014-2020 		

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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 from Nepal EST Forum 2015 to Lao EST Forum 2017.	
		What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development? <ul style="list-style-type: none"> • To achieve SDG Goal 11 which is to provide safe transportation. 	
"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, especially aiding sensitive populations near high traffic concentrations	Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input checked="" type="checkbox"/> <u>Largely in Place</u> <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant. <ul style="list-style-type: none"> • National Environment Health Action Plan (NEHAP) for Thematic Working Group : Air Quality

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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 from Nepal EST Forum 2015 to Lao EST Forum 2017.	
		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>TWG – Air Quality (S4- Knowledge Enhancement)</p> <p><u>Research and Development</u></p> <p>Research on deterioration of air quality and its potential impact to human health:</p> <ul style="list-style-type: none"> • Data collection of air pollution related diseases. • Systematic literature review on previous researches regarding air pollution related disease. • Conduct studies on major health impact systematically. 	
		<p>What importance does this particular EST Goal attach in your country’s on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <ul style="list-style-type: none"> • To achieve SDG Goal 13 which is to help mitigate and adapt to climate change. 	
“Cross-Cutting”	<p>15</p> <p>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</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some progress (design – piloting)</p> <p><input checked="" type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Barriers/Challenges faced in implementation:</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 from Nepal EST Forum 2015 to Lao EST Forum 2017.
	<p>and reporting in order to reduce the occurrence of days in which pollutant 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>	<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> • Study of ground level ozone pollution in Malaysia (2015) <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <ul style="list-style-type: none"> i) New Ambient Air Quality Standard adopts 6 air pollutants (PM₁₀, PM_{2.5}, CO, SO₂, NO₂, O₃) consist of 3 interim targets was set and started the implementation since 2015. The interim target 2 (IT-2) in 2018 and the full implementation of the standard in 2020; ii) Malaysia through Department of Environment, Ministry of Natural Resources and Environment (NRE) is in the process of improving the current 52 station of ambient air quality continues monitoring stations in Q1-2017. <ul style="list-style-type: none"> i) Introduction of better fuel quality standards EURO4M and EURO5; ii) Gazettement of new regulations and more stringent standards on exhaust emission from motor vehicles; iii) Improve and increase the inspection and maintenance (I/M) program for all the Fleet Operators and service centers/ workshops.

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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 from Nepal EST Forum 2015 to Lao EST Forum 2017.	
“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	Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input checked="" type="checkbox"/> <u>Largely in Place</u> <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation:
		Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant. <ul style="list-style-type: none"> • Ministry of Energy, Green technology and Water has been finalizing the National Green Technology Master Plan which includes transport sector. 3 approaches to reduce carbon emission will be implemented through: <ol style="list-style-type: none"> i. Public Transport; ii. Private Transportation; and iii. Cleaner fuel. (http://www.kettha.gov.my/portal/index.php?r=kandungan/index&menu1_id=3&menu2_id=32&menu3_id=66#) • Malaysia Biennials Update Report to UNFCCC has stated mitigation to reduce carbon emission via public transport and cleaner fuel. (http://www.nre.gov.my/sites/TNC-BUR/Documents/BUR_Malaysia_Final.pdf) 	

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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 from Nepal EST Forum 2015 to Lao EST Forum 2017.	
		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <ul style="list-style-type: none"> i. To promote public to use public transport; ii. To promote Biodiesel (B10); iii. To promote CNG; and iv. To promote EEV. 	
		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <ul style="list-style-type: none"> 1. To achieve SDG Goal 9 which is to be connected. 2. To achieve SDG Goal 11 with organized transportation. 	
“Cross-Cutting”	<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</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some progress (design – piloting)</p> <p><input checked="" type="checkbox"/> <u>Largely in Place</u></p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Barriers/Challenges faced in implementation:</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 from Nepal EST Forum 2015 to Lao EST Forum 2017.
	<p>accessibility of streets and public transport systems for persons with disabilities and elderly, affordability of transport systems for low-income groups, and up-gradation, modernization and integration of intermediate public transport</p>	<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p>There are committees been set up to look into accessibility of disabilities/ elderly (universal access), women in transport, etc:</p> <ul style="list-style-type: none"> • Transport Committee For People With Disabilities (report to National Committee For People With Disabilities); and • National Committee for Ageing Person. <hr/> <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>The implementation of several initiatives under these committees:</p> <ul style="list-style-type: none"> • Transport Committee For People With Disabilities; and • National Committee for Ageing Person. <hr/> <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <ol style="list-style-type: none"> 1. To achieve SDG Goal 9 which is to be connected. 2. To achieve SDG Goal 11 with organized transportation.

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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 from Nepal EST Forum 2015 to Lao EST Forum 2017.		
“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	Any action had been taken so far?	Barriers/Challenges faced in implementation:
			<input type="checkbox"/> Not yet <input checked="" type="checkbox"/> <u>Some progress</u> (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	
			Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.	
			Examples of important actions that you plan to carry out in next year (2017~2018)	
			<ul style="list-style-type: none"> • Government has established agencies to provide fund for selected green technology projects: <ul style="list-style-type: none"> i. PPP Unit coordinates PPP projects; ii. Green Technology Financing Scheme (GTFS) was introduced in the Malaysia Budget 2010 as an effort to improve the supply and utilization of Green Technology. http://www.gtfs.my/ . 	
			<ul style="list-style-type: none"> • To monitor green technology projects under these funds: <ul style="list-style-type: none"> i. Green Technology Financing Scheme (GTFS). http://www.gtfs.my/ ; 	
			What importance does this particular EST Goal attach in your country’s on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?	
			<ul style="list-style-type: none"> • To achieve SDG Goal 13 which is to help mitigate and adapt to climate change. 	

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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 from Nepal EST Forum 2015 to Lao EST Forum 2017.	
“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 type="checkbox"/> Some progress (design – piloting) <input checked="" type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation:
		Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant. Dissemination of information and awareness on sustainable transport have been coordinated by various agencies namely among others: <ul style="list-style-type: none"> • Malaysian Green Technology Corporation (An agency to plan, promote and implement green initiatives) http://www.kettha.gov.my/portal/index.php?r=kandungan/index&menu1_id=3&menu2_id=39&menu3_id=133 • YaHijau (An organization to promote green practices) www.yahijau.com • International Greentech & Eco Products Exhibition and Conference Malaysia (Annual greentech promotions event) www.igem.my/ 	

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		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>Execute promotions and awareness campaign on green practices:</p> <ul style="list-style-type: none"> • Malaysian Green Technology Corporation http://www.kettha.gov.my/portal/index.php?r=kandungan/index&menu1_id=3&menu2_id=39&menu3_id=133 • YaHijau www.yahijau.com • International Greentech & Eco Products Exhibition and Conference Malaysia www.igem.my/ 	
		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <ul style="list-style-type: none"> • To achieve SDG Goal 13 which is to help mitigate and adapt to climate change. 	
“Cross-Cutting”	20 Develop dedicated and funded institutions that address sustainable transport-land use policies and implementation, including research and development on environmentally-sustainable	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some progress (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	Barriers/Challenges faced in implementation:

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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 from Nepal EST Forum 2015 to Lao EST Forum 2017.
	transport, and promote good governance through implementation of environmental impact assessments for major transport projects	<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> • There are several agencies address environmentally-sustainable transport. <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p>Preparation of Environmental Impact Assessment (EIA) is a compulsory requirement for infrastructure projects, including major transport project (stated as one the EIA's prescribed activities in Malaysian Environmental Quality Act 1974 (Act 127).</p>

Major policy initiatives/projects/action plan to improve rural access:

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“Cross-Cutting” Strategy	<p>Take policy initiatives to improve rural access leading, leading to improved quality, safety and security for all and especially for women, disadvantaged groups persons with disabilities and elderly, low-income groups, access to farms, agriculture centers, education and health</p>	<p>List some of actions taken to improve rural access in your country so far?</p> <ul style="list-style-type: none"> • The National Physical Planning Policy For Rural Area has been finalized and will be published by Federal Department of Town and Country Planning at the National level. • Land Public Transport Master Plan developed by land Public Transport Commission look into accessibility and network coverage. 	<p>Barriers/Challenges faced in improving rural connectivity:</p>
		<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions to improve rural access. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> • The National Physical Planning Policy For Rural Area. • Land Public Transport Master Plan. 	
		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <ul style="list-style-type: none"> • The National Physical Planning Policy For Rural Area. • Land Public Transport Master Plan. 	
		<p>Importance of improving rural access in your country’s on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <ol style="list-style-type: none"> 1. To achieve SDG Goal 9 which is to be connected. 2. To achieve SDG Goal 11 with organized transportation. 	