

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

28-31 October 2019

Hanoi, Viet Nam

*Achieving Smart and Resilient Cities Through Low-Carbon and
Intelligent Transport System*

Country Report

(Draft)

< Myanmar >

This country report was prepared by the Government of Myanmar as an input for the Twelfth 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 Mongolia EST Forum 2018 to Viet Nam EST Forum 2019)

a) Name of the Country:

b) Name, Designation and Line Ministry/Agency Respondent:

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

d) Reporting period: 2018-2019

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. In the Eighth Regional EST Forum in Colombo, member countries adopted the “**Colombo Declaration**” for the promotion of next generation low-carbon transport solutions in Asia. Subsequently, EST Forum held in Vientiane, Lao PDR in 2017, the member countries adopted the “**Vientiane Declaration on Sustainable Rural Transport towards Achieving the 2030 Agenda for Sustainable Development.**”

*Each member country of the Forum is kindly requested to prepare a consolidated country report (by **15 August 2019**) reflecting how EST trends and developments have taken place in the country from the Mongolia EST Forum 2018 to the Viet Nam EST Forum 2019 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 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, the Colombo Declaration and the Vientiane Declaration. 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.

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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 the Mongolia EST Forum 2018 to the Viet Nam EST Forum 2019.		
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	<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 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> <ul style="list-style-type: none"> • Weakness in housing policy • Weakness of the integrated land use and transport planning • Budget constraint
	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"> • Yangon Elevated Expressway Public Private Partnership Project Phase I (www.mmrdrs.com) • National Transport Master Plan (MYT-Plan) (2015-2040) • National Logistics Master Plan (www.unescap.org/sites/default/files) • Yangon Urban Transport Master Plan (YUTRA 2016-2040) (www.open.jacareport.jica.go.jp/pef/12182754.pdf) 	

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		<p>Examples of important actions that you plan to carry out in next year</p> <p>Yangon Elevated Expressway Public Private Partnership Project</p>
		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • (a) the Sustainable Development Goals (SDGs) • (b) New Urban Agenda

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“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 progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • At present, Myanma Railways (MR) is trying to enhance the capacity building and rail infrastructure such as upgrading the major rail line connectivity to get the international standardization. In very near future, the MR will keep abreast with ASEAN countries and neighboring countries in railway transport sector.
		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"> • Myanma Railway is planning to develop the Pazundaung Railway Station area as rail concern business, high raise building and comprehensive development as mixed-use (TOD) and to develop the PPP system. 	

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		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> • Myanmar Railways expects to take prefeasibility or fully scale study this project in next year. <hr/> <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • (a) the Sustainable Development Goals (SDGs) 	
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 type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Technology • Infrastructure • Budget constraint

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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> <ul style="list-style-type: none"> • E-government Master Plan • At present, four operators run telecommunication services in Myanmar such as MPT, Telenor, Ooredoo and Mytel • Telecommunication Law and Rules were enacted • Largely use of mobile banking system • Use of mobile payment system
		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> • Pilot project at four cities with the World Bank's loan aiming at providing the need of telecommunication of the people nationwide

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		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • (a) the Sustainable Development Goals 	
II. Strategies to <u>Shift</u> towards more sustainable modes			
"Shift" Strategy	4	<p>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,</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 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> <ul style="list-style-type: none"> • Rapid motorization • Increasing number of motorcycles and lesser bicycle users • Weakness in planning • Difficult to change people's behaviors

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	<p>development of facilities for intermodal connectivity, and adoption of complete street design standards, wherever feasible</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"> • Construction of separate roads for bicycles in Mandalay City • Construction of separate roads and over bridges for pedestrians in Yangon City, Mandalay City and Nay Pyi Taw City • In Yangon City, which is the most populated city in Myanmar, pedestrian overpasses were built in twelve crowded areas. During 2019, two overpasses are being built for pedestrians. <hr/> <p>Examples of important actions that you plan to carry out in next year</p> <hr/> <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • (a) the Sustainable Development Goals

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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 type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Challenges of technology • Challenges of collaboration among concerned parties • Challenges of obeying rules and regulations
		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"> • Yangon Bus Service (YBS) • Replacing modernized buses instead the old ones • Upgrading bus lanes • Upgrading facilities of bus-stands and bus-stops • Upgrading both express railways lines and circular lines • Upgrading taxi services • Introducing school bus system • Introducing Telematics system in public transport buses • Establish public transport bus terminals 	

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		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> • Introducing Yangon Payment Service (YPS) • Pilot project to upgrade bus services in Yangon <hr/> <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • (a) the Sustainable Development Goals • (b) New Urban Agenda 	
"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	<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 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> <ul style="list-style-type: none"> • Budget constraint • Weakness of infrastructure

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	reducing price distortions that directly or indirectly encourage driving, motorization, and sprawl	<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"> • Upgrading taxi services • Introducing school bus system • Upgrading facilities of bus-stands and bus-stops • Upgrading circular railways lines
		Examples of important actions that you plan to carry out in next year
		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • (a) the Sustainable Development Goals

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“Shift” Strategy	7	<p>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 style="padding-left: 20px;">√ <input 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>	<p>Barriers/Challenges faced in implementation:</p> <ul style="list-style-type: none"> • Myanmar has already proposed to UNESCAP eight potential places for international importance on dry port, and already signed on an intergovernmental agreement in Bangkok, 2012. But among the eight potential dry ports, Yangon and Mandalay regions are implementing under PPP scheme. Most of locomotive and container wagons are able to carry the limited amount to operate containerization.

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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> <ul style="list-style-type: none"> • Myanmar has already proposed eight potential dry port. Out of eight, two dry ports: Ywathargyi that is near with Yangon and Myitnge that is near with Mandalay, are being implemented under PPP scheme. Two developers such as Kerry Logistic Company and Resources Group Logistics Company are still operating containerization in rail sector. • Regarding intercity inland water transport, Yangon water bus operation has been lunched since 6 October 2017 which have achieved more interest of people gradually.
		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> • Myanma Railway expect to take prefeasibility or fully scale study for another remained important potential dry ports in Myanmar.

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		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • (a) The Sustainable Development Goals (SDGs) 			
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 technology, and natural gas	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box) </td> <td style="width: 50%; vertical-align: top;"> Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Insufficient Natural Gas (NG) from onshore blocks • High cost of offshore natural gas • Difficult to change people's behaviors and awareness </td> </tr> </table>	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Insufficient Natural Gas (NG) from onshore blocks • High cost of offshore natural gas • Difficult to change people's behaviors and awareness
Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Insufficient Natural Gas (NG) from onshore blocks • High cost of offshore natural gas • Difficult to change people's behaviors and awareness 				

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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> <ul style="list-style-type: none"> • Increase the numbers of public transport buses which are CNG-used vehicles • Increase the numbers of airport shuttle buses which are CNG-used vehicles • Replace new and modernized machines in some CNG stations • Maintenance of CNG pipelines and compressors • Testing CNG containers for the safety of the passengers • Safety training for the CNG-used vehicles' drivers
		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> • Planning to move some CNG filling stations for more convenience of public transport buses

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		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • (a) The Sustainable Development Goals (SDGs) 	
“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 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>	

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		Examples of important actions that you plan to carry out in next year	
		What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?	
"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 type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Budget constraint • Technology • Lack of research • Capacity

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	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"> • Installing vehicle testing lanes in big cities for both cars and motorcycles • Practicing periodic vehicle inspection for vehicles' renewal registration • Conducting End-of-Life vehicle scrubbing program • Modifying Motor Vehicle Laws • Initiating RFID system • Applying ASEAN's Technical Requirements for Vehicles
		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> • To release Road Safety and Vehicle Management Law
		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • The Sustainable Development Goals (SDGs)

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“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 type="checkbox"/> Not yet √ <input type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Weakness in soft and hard infrastructures • Budget constraint

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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> <ul style="list-style-type: none"> • Electric Toll Collection System has been started in Yangon-Mandalay Expressway since 2018. • A Traffic Control Center was established in Yangon and the following functions are being undertaken: <ul style="list-style-type: none"> - Intelligent monitoring - E-police system - Checkpoint System - Variable Message Signs - Illegal parking controlling • In Mandalay, SCATS (Sydney Coordinated Adaptive Traffic System) and IVMS-8600 Platform have been deployed. • Telematics system has been installed on the express buses and trucks which are running on Yangon-Mandalay highway. • For fleet management and control & command on the operation of city buses in Yangon, all the buses which are running in Yangon and allowed for public transport services were installed telematic devices.

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		Examples of important actions that you plan to carry out in next year	
		What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement? <ul style="list-style-type: none"> • The Sustainable Development Goals (SDGs) 	
“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? <ul style="list-style-type: none"> <input type="checkbox"/> Not yet √ <input type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Myanma Railways is facing up the old age of rolling stock and freight operation capability of wagons number is getting lower. The MR is difficult to solve the problem of different coupler type (Auto coupler type are high and low type and ABC type of coupler wagons.)

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	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"> • To solve the current difficulties, the MR cooperates with private companies for purchasing new general cargo wagons and container wagons. This project is under negotiation to sign contract.
		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> • Myanma Railways will invite ‘Expression of Interest’ for the purchasing of new cargo wagons and container wagons in this year.
		<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"> • (a) The Sustainable Development Goals (SDGs)

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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 in accidents and injuries	Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) ✓ <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Difficult to change some behaviors of people • Rapid motorization especially the increased numbers of motorcycle • Capacity building • Budget constraint • Collaboration among concerned parties • Weakness of interest of private sectors

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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 the Mongolia EST Forum 2018 to the Viet Nam EST Forum 2019.
		<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"> • Active leadership of the National Road Safety Council and participation of local Road Safety Councils • Implementation of the Myanmar National Road Safety Action Plan • Implementation of road safety measures focusing on vulnerable road users • Modifying Motor Vehicle Law • Introducing ITS in major cities like Yangon and Mandalay • Applying telematic system for fleet control • Accelerating educative programs and stricter enforcement for road safety • Introducing school bus system in Yangon • Promoting the collaboration and coordination among government's organizations, people, NGOs and INGOs • Assessing 1968 Vienna Convention on Road Traffic & 1968 Vienna Convention on Road Signs and Signals

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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 the Mongolia EST Forum 2018 to the Viet Nam EST Forum 2019.
		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> • To introduce mandatory child-restraint • To practice 1968 Vienna Convention on Road Traffic & 1968 Vienna Convention on Road Signs and Signals
		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • (a) The Sustainable Development Goals (SDGs)

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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 the Mongolia EST Forum 2018 to the Viet Nam EST Forum 2019.		
“Cross-Cutting” Strategy	14	<p>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</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 type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p> <ul style="list-style-type: none"> • It is under implementation status for inferential analysis on the association between air pollution and health impact under Climate Change and Health Adaptation Project (2019- 2022) with the support from Global Environmental Facility (GEF) fund. • For Ministry of Health and Sports, health education topic is included in Basic Health Staff message book in order to improve the health knowledge on air pollution among communities. 	<p>Barriers/Challenges faced in implementation:</p> <ul style="list-style-type: none"> • Currently, air quality monitoring data is hard to represent as national data for air pollution because it is measured regularly only in Yangon and Nay Pyi Taw territories. • There are many risk factors for respiratory diseases and therefore, it is difficult to recognize that air pollution is definite cause. It is still needed to elaborate the association between air pollution and health impact through researchers.
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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 the Mongolia EST Forum 2018 to the Viet Nam EST Forum 2019.
		<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"> • Occupational and Environmental Health Division (OEHD) is implementing Regional Plan of Action for Implementing the WHO Global Strategy for Health, Environment and Climate Change (2020-2030) with the collaboration with WHO.
		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> • Occupational and Environmental Health Division (OEHD) is getting technical support and capacity building from WHO under GEF fund.
		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • Current effort and implementation on air pollution measure by OEHD is highly related to the SDGs goals.

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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 the Mongolia EST Forum 2018 to the Viet Nam EST Forum 2019.	
“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	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Technical assistance • Comprehensive Environmental Quality Monitoring System • Capacities Building Training for Air Quality Monitoring

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	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>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 Environmental Quality (Emission) Guidelines (December 2015) Websites: ecd.gov.mm/?q=policy&page=2 • The project concept proposal is approved the Economic Affairs Committee Meeting of Union Government on 14 December 2017 • Ministry of Foreign Affairs of Myanmar sent the Project Concept Proposal to the Government of Japan through Japan Embassy of Myanmar for the implementation of the project • During the project, Air Quality Monitoring Station (Fixed type) and Air Quality Monitoring Station (Mobile type) will be established in Nay Pyi Taw, Yangon Region, Mandalay Region, Sagaing Region and Shan State.
		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> • Adoption National Air Quality Standards • The Project for Improvement of Capability of Air Quality Monitoring in Myanmar will be developed from 2018 to 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 the Mongolia EST Forum 2018 to the Viet Nam EST Forum 2019.	
		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • (a) The Sustainable Development Goals (SDGs) 	
"Cross-Cutting"	16	<p>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</p>	<p>Any action had been taken so far?</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> Not yet</p> <p><input 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> <p>Barriers/Challenges faced in implementation:</p> <ul style="list-style-type: none"> • Awareness of Policy makers and government's high level • Capacity building • Research and Development • Data sharing

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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 the Mongolia EST Forum 2018 to the Viet Nam EST Forum 2019.
	Communication to the UNFCCC	<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"> • In Second National Communication, reference material we used are UNFCCC (COP Decision, Reporting guidelines, etc.). We used IPCC 2006 Guidelines and Emission Factor Data Based (EFDB) for calculating greenhouse gases emission. Some of the data we can get from International Energy Agency and Energy Statistic which has been submitted from the Ministry of Energy and Electricity in 2019. • Mobile sources are Civil aviation, Road Transportation (cars, light trucks, heavy duty trucks and buses, motorcycles), Railways and Navigation <ul style="list-style-type: none"> - To identify kilometer vehicle under development (emission controls (catalysts) on vehicles can increase the rate of N₂O generation depending on driving practices (i.e. Number of cold starts), type and age of the catalyst that can be significantly emit for countries with a high penetration of vehicles with catalyst.

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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 the Mongolia EST Forum 2018 to the Viet Nam EST Forum 2019.	
		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> • Fuel taxes • To conduct catalyst on vehicle for reducing nitrous oxide and methane emission • Sustainable management for traffic/vehicle for urban area • Mass transport system in Yangon <hr/> <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • (a) The Sustainable Development Goals (SDGs) • (b) Paris Climate Agreement 	
“Cross-Cutting”	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	<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 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> <ul style="list-style-type: none"> • Culture • Capacity • Planning

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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 the Mongolia EST Forum 2018 to the Viet Nam EST Forum 2019.
	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>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"> • Involvement of women in transport sector development such as women entrepreneurs, women taxi drivers, women transport operators • Introduction of public buses that are easily accessible for the invalid and senior citizens in Yangon
		Examples of important actions that you plan to carry out in next year
		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • (a) The Sustainable Development Goals (SDGs)

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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 the Mongolia EST Forum 2018 to the Viet Nam EST Forum 2019.		
“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? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> <input type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Technology • Capacity • Infrastructure • Planning
			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"> • Planning to start Yangon Payment System (Changing from cash payment to card payment for public transport buses) 	
			Examples of important actions that you plan to carry out in next year <ul style="list-style-type: none"> • To introduce card system for public 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 the Mongolia EST Forum 2018 to the Viet Nam EST Forum 2019.	
		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • (a) The Sustainable Development Goals (SDGs) 	
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	<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 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> <ul style="list-style-type: none"> • Weakness of collaboration and coordination • Weakness of interests of people

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	processes	<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"> • Respective governmental organizations upload and update the information <p>For Ministry of Transport and Communications, see https://www.motc.gov.mm/ For Ministry of Natural Resources and Environmental Conservation, see http://www.monrec.gov.mm/ For Ministry of Electricity and Energy, see https://www.moee.gov.mm For Ministry of Health and Sports, see https://www.mohs.gov.mm/</p> <ul style="list-style-type: none"> • Educative programs have been undertaken by respective government's agencies • The information which is necessary for people's acknowledgement are announced daily news and newspapers
		Examples of important actions that you plan to carry out in next year

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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 the Mongolia EST Forum 2018 to the Viet Nam EST Forum 2019.		
		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> (a) The Sustainable Development Goals (SDGs) 		
"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	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> To date, we have no specific Environmental Impact Assessment Guideline for Transport Sector. We have no Land Acquisition Guideline for the Development Project.
	(a)			

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	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"> • At present, in town planning processes, DUHD focused on Natural and Green transport such as prioritizing Bicycle ways and pedestrian way rather than traditional motorways. • Ministry of Natural Resources and Environmental Conservation issued Environmental Impact Assessment Procedure on 29 December 2015. • All projects including transport sector must follow EIA procedures when they implement their projects. • EIA section is undertaking the assessment reports EIA, IEE, EMP submitted by transport to give ECC – Environmental Compliance Certificate by reviewing organization and approving.
		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> • We continue the reviewing and approving process on the submitted assessment reports.

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		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • (a) The Sustainable Development Goals (SDGs) • (b) New Urban Agenda

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

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<p>“Cross-Cutting” Strategy</p>	<p>20 (b) Take policy initiatives to improve rural access 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"> • Implementing with 15 years plan for rural roads starting from 2015-2016 to 2030-2031 fiscal years • Under the Ministry of Construction, a new department was formed to implement rural improvement affairs. • In support of the Sustainable Development Goals (SDGs), the long-term development objective of the Government of Myanmar is to provide all-season access to all villages in Myanmar. In support of this long-term development objectives, this <i>National Strategy for Rural Roads and Access</i> targets the next 15 years up to 2030, during which the GoM aims to provide 90% of all registered villages in each state and region with road assess, including all-season road access for at least 80% of the registered villages. • The focus of the strategy will be on larger villages, providing all-season road access to all 	<p>Barriers/Challenges faced in improving rural connectivity:</p> <ul style="list-style-type: none"> • Limitation of government budget • Under planning for fuel tax or levy • Limited support from development partners
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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 to improve rural access. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none">• Department of Rural Development has been preparing National Strategy for Rural Roads and Access.• Core Rural Road Network has been implemented.• Construction of Rural roads as follow during 2018-2019 fiscal year:<ul style="list-style-type: none">- Concrete 318-mile 1.78 furlong- Bitumen 393-mile 0.58 furlong- Macadam 447-mile 5.43 furlong- Kanker 884-mile 6.51 furlong- Earth 876-mile 0.43 furlong <p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none">• Upgrade the existing dry-season Core Rural Network roads to all-season road access to all registered villages with more than 1,000 people by 2020
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			<p>Importance of improving rural access in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none">• (a) the Sustainable Development Goals
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