

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)

<Singapore>

This country report was prepared by the Government of Singapore 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.

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

Country EST Report (covering from Nepal EST Forum 2015 to Lao EST Forum 2017)

- a) Name of the Country: Singapore
- b) Name, Designation and Line Ministry/Agency Respondent:
Poon Joe Fai, Director, Policy (Bus & International Relations), Land
Transport Authority, Singapore
- c) List other Line Ministries/Agencies contributing to preparation of the
Country Report: National Environment Agency, Singapore
- 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 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

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

- 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

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

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 type="checkbox"/> Largely in Place <input checked="" 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. Singapore’s Master Plan and the Concept Plan provide a comprehensive and integrated planning framework. They help balance the various many land use needs, such as housing, industry, recreation, transport, and community facilities within Singapore’s land constraints, and take into account all major land needs in collaboration with relevant government agencies in Singapore. To ensure its relevance, both plans are regularly updated. The latest was the Master Plan 2014. http://www.ura.gov.sg/uol/master-plan.aspx?p1=View-Master-Plan&p2=Introduction-to-Master-Plan			

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

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		<p>Examples of important actions that you plan to carry out in next year (2017~2018) On-going work to implement Master Plan 2014.</p> <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? This EST Goal is integral to attaining the following SDGs: Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation; and Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable.</p>

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

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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"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Barriers/Challenges faced in implementation:</p>
“Avoid” Strategy		<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>The strategy is captured in the Master Plan (see Goal 1). Specific transit-oriented developments include Integrated Transport Hubs, that are interchanges or rail stations that are designed to connect between public transport modes, are co-located with residential and commercial developments, and contain amenities such as food and shopping. There are already eight in operation and this number will continue to grow with the opening of several more.</p> <p>https://www.lta.gov.sg/content/ltaweb/en/public-transport/system-design/integrated-transport-hubs.html</p>	
		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>Another ITH (Bukit Panjang) is targeted to open in 2016, and works are ongoing for another (Yishun) scheduled to open in 2019.</p>	

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

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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>This EST Goal supports SDG Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable.</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 checked="" 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:
			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. N.A.	
			Examples of important actions that you plan to carry out in next year (2017~2018) N.A.	

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

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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>N.A.</p>

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

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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 pedestrian and bicycle facilities, development of facilities for intermodal connectivity, and adoption of complete street design standards, wherever feasible	Any action had been taken so far? <input type="checkbox"/> Not yet <input 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. <u>National Cycling Plan.</u> Under the National Cycling Plan, up to 700km of off-road cycling path network will be implemented island-wide by 2030. Cycling paths will be constructed within each public housing towns, to provide first mile last mile connectivity for residents to the train stations and nearby amenities. Plans are also underway to develop an inter-town cycling route, linking up existing cycle-able park connector path from the west to city centre. A town (Ang Mo Kio) has also been chosen as a ‘model’ walking and cycling town, to be retro-fitted with cycling paths and safety features for enhanced NMT user experience.			

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

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		<p><u>Automated Mechanised Bicycle Parking System</u> The first fully automated underground bicycle parking system will be completed at Kampung Admiralty in the second half of 2017. The system will provide 500 additional secure and safe parking lots for the growing cycling population. The above initiatives are described in: https://www.lta.gov.sg/content/ltaweb/en/walk-cycle-ride/integrating-cycling-with-public-transport.html</p> <p><u>Bike Sharing System</u> Singapore will be piloting its first large scale bicycle-sharing scheme in Jurong Lake District. The scheme consists of 100 docking stations and 1000 bicycles. The system is expected to be ready in 2018. More information can be found in: https://www.lta.gov.sg/apps/news/page.aspx?c=2&id=1d2be988-2d74-47aa-9960-cfe1916dc351</p> <p><u>Walking and Cycling Plan</u> Walking and Cycling Plan (WCP) is a joint initiative with URA which was launched on 1 July 2016. It aims to ensure that the designers of new developments consider the needs of pedestrians and cyclists at the upfront stage of their design so that the developments are pedestrian and cyclist-friendly. Some of the WCP features include cycling path, bicycle racks, end-of-trip facilities like showers and locker facilities and traffic calming measures. More information can be found in: https://corenet.gov.sg/media/1849897/lta-ura-joint-circular-release-wcp-final.pdf.</p>

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

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		<p><u>Road Typology Review</u></p> <p>We have also reviewed the road typology and established one that has balanced benefits and promotes safety among the road users (pedestrians, cyclists and motorists). This includes the placement of the various paths as well as the minimum required widths to cater for the harmonious sharing of all users.</p> <p><u>Active Mobility Bill</u></p> <p>The Active Mobility (AM) Bill was read for the second time and passed in Parliament on 10 Jan 2017. The AM Bill establishes a new regulatory regime to govern the types of devices permitted on public paths, such as footpaths, cycling and shared paths, and to ensure safe and harmonious use of bicycles and personal mobility devices (PMDs) on these paths. More details on the rules and code of conduct can be found at: http://www.lta.gov.sg/content/ltaweb/en/walk-cycle-ride/rules-and-code-of-conduct.html</p> <p><u>Publicity Campaign and Public Education</u></p> <p>The Land Transport Authority will be launching a publicity campaign to educate the general public on the new rules, code of conduct, and penalties. A Safe Riding Programme will also be launched by mid-2017 to educate the public on safe cycling practices, proper use of cycling infrastructure and the proposed new rules and code of conduct for cyclists.</p>

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

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		<p><u>Car-Free Programme</u></p> <p>Car-Free Sunday SG is a community initiative by the Urban Redevelopment Authority (URA), Land Transport Authority (LTA), National Parks Board (NParks), National Arts Council (NAC), Health Promotion Board (HPB) and Sport Singapore (SportSG), supported by a host of community and interest groups to promote the car-lite message and enliven the streets.</p>
		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>Implementing initiatives listed 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> <p>This EST Goal is in line with the following SDG Goals:</p> <p>Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable.</p> <p>Goal 12. Ensure sustainable consumption and production patterns</p> <p>Goal 13. Take urgent action to combat climate change and its impacts</p>

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

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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"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation:
		<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>Rail Development Plan.</u> Two new MRT lines and extensions of three existing lines planned to complete by 2030, bringing the length of our rail network to 360km and achieving a rail density comparable to London today.</p> <p><u>Addition of trains, signaling upgrades, re-sleepering and third rail replacement.</u> Improvements to the two oldest lines (North-South and East-West Lines) through addition of trains, upgrades to the signaling system, as well as re-sleepering of tracks (completed in 2016). With additional trains and upgraded systems, this shortens headway, and increases rail capacity and reliability. https://www.lta.gov.sg/apps/news/page.aspx?c=2&id=9293b7de-5142-47a7-ad16-9148ecd41db2 https://www.lta.gov.sg/apps/news/page.aspx?c=2&id=e1fbdb6d-3200-4b23-846e-bb2184ba3dcc</p>	

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

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		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>Stage 3 of the Downtown MRT and the Tuas West MRT Extension will open in 2017, adding 28.5 km and 20 stations to the network. On the North-South and East-West lines, upgrades of signaling system and replacement of the third rail are to be fully completed in 2017 and 2018 respectively.</p> <p>https://www.lta.gov.sg/apps/news/page.aspx?c=2&id=9293b7de-5142-47a7-ad16-9148ecd41db2</p> <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> <p>This EST Goal supports the following SDG Goals:</p> <p>Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable.</p> <p>Goal 12. Ensure sustainable consumption and production patterns</p> <p>Goal 13. Take urgent action to combat climate change and its impacts</p>

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

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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 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:

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

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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><u>Vehicle Quota System (VQS)</u>. Singapore has been implementing the VQS since 1990, which caps the growth of vehicle population. Under VQS, each vehicle requires a Certificate of Entitlement, a limited number of which is allocated to vehicle buyers through regular market bidding. http://www.lta.gov.sg/content/ltaweb/en/roads-and-motoring/owning-a-vehicle/vehicle-quota-system/overview-of-vehicle-quota-system.html</p> <p><u>Electronic Road Pricing (ERP)</u>. Electronic Road Pricing (ERP) has been in place since 1998 to charge motorists for the use of congested roads. Rates vary based on deviation from optimal speeds on priced roads, and are charged via short-range radio communication from the gantry to the in-vehicle unit (IU) which holds a stored value card.</p>

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

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		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>The vehicle growth rate under the VQS has been adjusted downwards from 0.5% to 0.25% per year from February 2015. A review of the vehicle growth rate will be conducted in 2017, with a view to reduce to zero eventually.</p> <p>https://www.mot.gov.sg/News-Centre/News/2016/Written-Reply-by-Minister-for-Transport-Khaw-Boon-Wan-to-Parliamentary-Question-on-COE-Growth-Rate-per-Year/</p> <ul style="list-style-type: none"> • A tender to develop the next generation ERP system based on Global Navigation Satellite System (GNSS) technology was awarded in Feb 2016. Work is on-going to develop it. The new system is expected to be implemented around 2020. <p>https://www.lta.gov.sg/apps/news/page.aspx?c=2&id=0bd76988-3c70-4b1f-9b68-65bb7fb47d56</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>This EST Goal supports the following SDG Goals:</p> <p>Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable.</p> <p>Goal 12. Ensure sustainable consumption and production patterns</p> <p>Goal 13. Take urgent action to combat climate change and its impacts</p>

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

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"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 air passenger travel, and priority for train and barge freight over truck and air freight by building supporting infrastructure such as dry inland ports	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:
		<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>Singapore and Malaysia have signed a bilateral agreement on 13 Dec-2016 to build a high-speed rail (HSR) link from Singapore to Kuala Lumpur. The Express Service between Singapore and Kuala Lumpur is targeted to commence by 31 December 2026. https://www.lta.gov.sg/apps/news/page.aspx?c=2&id=05c564a6-fffc-4b34-b634-02ff7f683733</p> <p>In addition, there are plans to develop a Rapid Transit System (RTS) link between the northernmost train station of the upcoming Thomson-East Coast Line (TEL) and Johor Bahru in Malaysia. Bilateral discussions and feasibility studies are ongoing. https://www.gov.sg/news/content/today-online---rapid-transit-system-link-to-connect-woodlands-and-jb-via-high-bridge</p>	

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		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>On-going work to prepare for tender for HSR operators and assets company. Award of tender for a Joint Development Partner (JDP) to provide advice on operational, technical and procurement matters is scheduled in 2017.</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>This EST Goal supports the SDG Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable.</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"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation:

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

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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> <p>Schemes are in place to encourage or assess the feasibility of adoption of vehicles with more sustainable technology, such as:</p> <p><u>Early Turnover Scheme</u>. A scheme to encourage owners of diesel commercial vehicles to replace their old, pollutive diesel commercial vehicles with newer, cleaner models https://www.lta.gov.sg/apps/news/page.aspx?c=2&id=4e573ed2-1b81-40f2-838a-361a4e7e1889 https://www.lta.gov.sg/apps/news/page.aspx?c=2&id=74999bcf-63bd-4732-8831-67617e353864</p> <p><u>Electric Vehicles</u>. Since 2011, Singapore has been test-bedding different commercially available EVs and charging technologies in Singapore's environment and road conditions, and to assess the feasibility and conditions for mass adoption of EVs. https://www.lta.gov.sg/apps/news/page.aspx?c=2&id=19d58dsztx5r0rw2621vtmjfe35nxru5c7gg1yi3172m8ijqp</p> <p>The latest initiative is to launch an electric vehicle (EV) car-sharing programme by mid-2017. https://www.lta.gov.sg/apps/news/page.aspx?c=2&id=e030e95d-a82c-49b4-953c-fc4b3fad7924 https://www.lta.gov.sg/apps/news/page.aspx?c=2&id=9fc4a578-094c-4e70-84f2-d598784a3058</p>

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

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		<p><u>Autonomous Vehicles</u>. Singapore is test-bedding autonomous vehicle (AV) technology, applications and solutions, and to assess the potential opportunities and challenges that AV has for Singapore.</p> <p>https://www.lta.gov.sg/apps/news/page.aspx?c=2&id=2bc42aac-6b74-4e58-bca3-e2e819c66d20</p> <p>https://www.lta.gov.sg/apps/news/page.aspx?c=2&id=73057d63-d07a-4229-87af-f957c7f89a27</p>
		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>On-going efforts of above initiatives.</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>This EST Goal is in line with the following SDG Goals:</p> <p>Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation; and</p> <p>Goal 12. Ensure sustainable consumption and production patterns</p> <p>Goal 13. Take urgent action to combat climate change and its impacts</p>

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

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“Improve” Strategy	9 Set progressive, appropriate, and affordable standards for fuel quality, fuel efficiency, and tailpipe emissions for all vehicle types, including new and in-use vehicles	Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input checked="" 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. Existing legislations for fuel quality and tailpipe emission standards for in-use and new on-road vehicles are generally in place.	
		Examples of important actions that you plan to carry out in next year (2017~2018) Review of the existing legislations to keep up with the developments internationally and regionally.	

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

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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>The EST Goal supports Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable.</p>	
"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"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation:

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

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> <p>Singapore has a compulsory periodic vehicle inspection regime to ensure that vehicle owners maintain their vehicles regularly to meet safety, roadworthiness and emission standards. Generally, vehicles that are used more frequently and older are required to be inspected more frequently. The current periodic inspection frequency for commercial vehicles is very stringent (inspected annually after registration, and every 6 months if they are more than 10 years old), as they generally carry higher payloads and have higher average annual mileages than private vehicles.</p>
		Examples of important actions that you plan to carry out in next year (2017~2018) N.A.
		<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>The EST Goal supports Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable.</p>

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

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	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?	Barriers/Challenges faced in implementation:
			<input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input checked="" 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. <u>MyTransport.SG</u> , a smartphone application which provides real-time information on bus arrival times, traffic conditions and news, road pricing rates. https://www.lta.gov.sg/content/ltaweb/en/e-services.html		

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

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><u>Intelligent Transport System (ITS)</u>. Since the launch of ‘Smart Mobility 2030’ in Aug 2014, Singapore has been leveraging on ITS initiatives to provide high quality information to meet diverse needs, enhance travelling experience with smarter interactivity, create a safe and secure roadway environment, and envision a sustainable and environmentally friendly ITS. These allow transport users to make informed decisions on-the-go, in a safe and sustainable land transport system.</p> <p>https://www.lta.gov.sg/content/ltaweb/en/roads-and-motoring/managing-traffic-and-congestion/intelligent-transport-systems/SmartMobility2030.html</p>
		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>On-going work and improvement on above initiatives.</p>

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

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> <p>This EST Goal supports SDG Goals Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation; Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable; and Goal 12. Ensure sustainable consumption and production patterns</p>	
‘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 chain management	Any action had been taken so far? <input checked="" 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:
		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. N.A.	

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

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>N.A.</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>N.A.</p>	
IV. Cross-cutting strategies			
"Cross-Cutting"	<p>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</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 checked="" type="checkbox"/> Fully Completed</p> <p>(Please Check the box</p>	<p>Barriers/Challenges faced in implementation:</p>

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

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>requirements, and better post-accident care oriented to significant reductions in accidents and injuries</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>Pedestrian and Cyclist Safety Committee.</u> The inter-agency committee has been set up to review the adequacy of road safety provisions. http://www.lta.gov.sg/content/ltaweb/en/roads-and-motoring/road-safety-and-regulations/PCSC.html</p> <p><u>Silver Zones.</u> The programme is being rolled out to make selected estates safer for the senior pedestrians to use roads. Measures include traffic-calming design and reduced speed limits. http://www.lta.gov.sg/apps/news/page.aspx?c=2&id=e3228575-1f3b-4a48-a72b-49047df2da5f https://www.lta.gov.sg/apps/news/page.aspx?c=2&id=3e722078-39ff-4546-8144-c10b47563fa6 https://www.lta.gov.sg/apps/news/page.aspx?c=2&id=edd27f43-fbe7-4ea7-b2f9-98ad1bef3287</p> <p>Examples of important actions that you plan to carry out in next year (2017~2018) Ongoing work on above initiatives. Completed 9 Silver Zones since October 2014. 12 more Silver Zones are targeted to complete by 2018.</p>

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

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> <p>This EST Goal supports SDG Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable.</p>		
"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 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:
			<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>In-house studies were previously done to assess the economic impacts of specific air pollutants, which serve as bases for the derivation of mitigation strategies covering fuel quality, new and in-use vehicles.</p>	

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

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		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>Complete Emissions Inventory for Air Pollutants in Singapore.</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>This EST Goal links to SDG Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable.</p>

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

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”	<p>15 Establish country-specific, progressive, health-based, cost-effective, and enforceable air quality and noise standards, also taking into account the WHO guidelines, and mandate monitoring and reporting in order to reduce the occurrence of days in which pollutant 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>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>
		<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>Existing health-based, cost effective and enforceable air quality and noise standards are in place, which have also taken into consideration the WHO guidelines.</p>	
		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>To relook at the WHO Final Air Quality Targets that Singapore has set to meet in the long term, together with the various initiatives that Singapore has drawn up in the various areas for cleaner air.</p>	

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

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> <p>This EST Goal links to SDG Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable.</p>

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

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"/> 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. Carbon Emissions-Based Vehicle Scheme (CEVS): The scheme was implemented in January 2013 as part of Singapore’s National Climate Change Strategy (2012). It is a feebate scheme which provides incentives to switch to cars with lower CO2 emissions and imposes surcharges on purchasers of high-emitting cars and taxis. It has been revised in 2015 in view of improvements in vehicular technology. The scheme is due for further revision in mid-2017. https://www.lta.gov.sg/apps/news/page.aspx?c=2&id=8aa03b88-409f-4852-b2df-09077e101468 Contributions from the transport sector have also been considered in Singapore’s GHG inventory, which form part of the NC to the UNFCCC. https://www.nccs.gov.sg/resources/publications	

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

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>Review of CEVS in 2017.</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>This EST Goal is in line with the SDG Goal 13: Take urgent action to combat climate change and its impacts.</p>

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

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	17 Adopt social equity as a planning and design criteria in the development and implementation of transport initiatives, leading to improved quality, safety and security for all and especially for women, universal accessibility of streets and public transport systems for persons with disabilities and elderly, affordability of transport systems for low-income groups, and up-gradation, modernization and integration of intermediate public transport	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:

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

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> <p><u>Barrier-free accessibility.</u> All rail stations in Singapore offer barrier-free access to platforms through lifts and ramps. More pedestrian overhead bridges in busy areas are being fitted with lifts. By 2020, all public buses will be wheelchair-accessible, from over half the fleet today. The Green Man + scheme allows a senior pedestrian to be given additional time to cross the road on the green man signal.</p> <p>Description of the above is provided in the Land Transport Master Plan 2013: http://www.lta.gov.sg/content/ltaweb/en/about-lta/what-we-do/ltmp2013.html</p> <p><u>Fare concessions for less privileged.</u> The Fare Review Mechanism Committee (FRMC) recommended in 2013 fare concessions to be given to the low-income group as well as persons with disabilities, in addition to those already in place for children, students and senior citizens. This has since been implemented. http://www.mot.gov.sg/news/FRMC%20Report%201%20Nov.pdf https://www.mot.gov.sg/News-Centre/News/2014/New-Concession-Schemes-for-Workfare-Beneficiaries-and-Persons-with-Disabilities-from-6-July-2014</p>

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

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) Green Man + will be rolled out to another 500 pedestrian crossings by end 2018. 41 more pedestrian overhead bridges will be fitted with lifts by 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>This EST Goal is related to SDG Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable.</p>

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

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 checked="" 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)	
		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.	
		N.A.	
		Examples of important actions that you plan to carry out in next year (2017~2018)	
		N.A.	
		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?	
		N.A.	

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

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. Land Transport Master Plan (LTMP) 2013: LTMP was published in 2013, with the key message of making public transport the choice mode of travel through better service, more connections and a more liveable and inclusive community. http://www.lta.gov.sg/content/ltaweb/en/about-lta/what-we-do/ltmp2013.html	

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

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>Sustainable Singapore Blueprint (SSB): The Sustainable Singapore Blueprint (SSB) was first published in 2009 to detail the initiatives to ensure sustainable growth over the next two decades. It has also been updated recently to support the diverse needs and growing aspirations of Singaporeans. Sustainable transport initiatives are highlighted, with a key message for a progressive shift of emphasis from private motorized transport towards active mobility (public transport and non-motorized transport (NMT) modes) and greener vehicles.</p> <p>http://app.mewr.gov.sg/web/ssb/index.html</p>
		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>Implement the initiatives in the LTMP2013 and SSB.</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>This EST Goal is related to SDG Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable.</p>

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

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” 20	Develop dedicated and funded institutions that address sustainable transport-land use policies and implementation, including research and development on environmentally-sustainable	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:

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

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> <p><u>Environment Impact Study (EIA) for the Cross Island Line (CRL).</u> An EIA is being conducted for the underground alignments of CRL, a major rail line to be developed, that runs underneath or skirting around the Central Catchment Nature Reserve. The EIA findings, along with other considerations such as engineering feasibility of both alignments, distance and travel time for commuters, cost to taxpayers, and the impact on the CCNR and on businesses and families who may be affected by land acquisition, will guide the decision on CRL's alignment. The EIA (Phase 1) report assesses possible environmental impact of site investigation works in the CCNR and proposes mitigation measures as well as an environment management and monitoring plan to be implemented when carrying out these site investigation works. Phase 2 of the EIA to study and assess the potential environmental impact on the CCNR from the construction and operation of the CRL for the two possible alignments is in progress.</p> <p>https://www.lta.gov.sg/apps/news/page.aspx?c=2&id=85079f03-0c50-46e2-b44d-328034a5a838</p>

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

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>Phase 2 of the EIA to study and assess the potential environmental impact on the CCNR from the construction and operation of the CRL for the two possible alignments is in progress.</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>

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

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

“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> <p>NA</p>	<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>	
		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p>	
		<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>	