

Intergovernmental Eleventh Regional Environmentally

Sustainable Transport (EST) Forum in Asia

2-5 October 2018

Ulaanbaatar, Mongolia

Sustainable Urban Design and Development ~ Role of EST

Country Report

(Draft)

< Japan >

This country report was prepared by the Government of Japan as an input for the Eleventh 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 Lao EST
Forum 2017 to Mongolia EST Forum 2018)**

- a) Japan
- b) Ministry of the Environment
- c) Ministry of Land, Infrastructure, Transport and Tourism
- d) Reporting period: 2017-2018

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 September 2018) reflecting how EST trends and developments have taken place in the country from Lao PDR EST Forum 2017 to Mongolia EST Forum 2018 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 - 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 September 2018.

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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 Lao EST Forum 2017 to Mongolia EST Forum 2018.	
I. Strategies to <u>Avoid</u> unnecessary travel and reduce trip distances			
“Avoid” Strategy	1 Formally integrate land-use and transport planning processes and related institutional arrangements at the local, regional, and national levels	Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input checked="" type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: From the viewpoint of realizing a desirable urban and rural image, promotion of comprehensive and strategic transport policy, integrated transport business with urban development is required. From the perspective of promoting low carbon city development in urban areas where the population and buildings are concentrated to a certain extent, it is required to create sustainable and vigorous city design by low carbonization measures for urban structure and transport sector. In the regional areas, the decrease of the public transport passengers might cause a concern about shrinkage of the public transport network and degrade of service level. Therefore it is necessary to ensures local public transport network in cooperation with planning a compact city in the region.

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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.

Urban and regional comprehensive transport strategy

Implemented to support planning the comprehensive urban and regional transport strategies and the overall measures based on these strategies. For instance, in the City of Toyama, city design with integration of land-use and transport is being implemented centering around public transportation such as inducing settlement to the center of the city or along the line of public transportation.

http://www.mlit.go.jp/toshi/toshi_gairo_fr_000015.html

Based on the “Low Carbon City Act”, “Low Carbon City Plan” in terms of promoting low-carbon urban development by intensifying urban function and the use of collaborative public transportation, has been established by 24 municipal governments currently as of July 2018.

Local governments, in order to rebuild the region-wide public transport network, in cooperation with the urban development, have amended the “Law on Activation and Regeneration of Local Public Transport” in August 2014, to support the efforts in formulating sustainable local public transport network "Regional Public Transport Network Formation Plan". As of April 2018, 415 local governments have currently established the plan.

http://www.mlit.go.jp/sogoseisaku/transport/sosei_transport_tk_000055.html

http://www.mlit.go.jp/sogoseisaku/transport/sosei_transport_tk_000058.html

Examples of important actions that you plan to carry out in next year (2017~2018)

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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>Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</p> <p>Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable</p>	
“Avoid” Strategy	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 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>Examples of important actions that you plan to carry out in next year (2017~2018)</p>	
			<p>What importance does this particular EST Goal attach in your country’s on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p>	

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“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	<p>Any action had been taken so far?</p> <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)	<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>Examples of important actions that you plan to carry out in next year (2017~2018)</p>			
	<p>What importance does this particular EST Goal attach in your country’s on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p>			
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,	<p>Any action had been taken so far?</p> <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)	<p>Barriers/Challenges faced in implementation:</p> <p>Although the construction of free passages is based on “Guidelines for the Maintenance and the Management of Free Passages (June 2009)”, there are often cases where discussions with the railway business operators run into difficulties to decide the cost allocation.</p>

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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> <p>Implementation of communicate transportation methods for transfer & transit facilities maintenance (The Promotion of Upgrading Transport Nodes) http://www.mlit.go.jp/road/sisaku/tdm/Top03-02-01.html</p> <p>About the promotion of transportation knotting point maintenance etc. The station square of Matsumoto Station, Nagano prf. and Hatsukaichi City Office Station in Hiroshima pref. devise the guideline for passenger flow in terms of interconnection between trolley and bus. BASUTA Shinjuku (transport terminal at southern exit of the Shinjuku station) Infrastructure maintenance by national road planning for National Road 20 and facility operation by private bus terminal company: through PPP, it has launched on April 4th, 2016. http://www.ktr.mlit.go.jp/toukoku/kisya/pdf/20160208.pdf</p> <p>Active Use Measures of Bicycle Formulating "Bicycle Parking Attachment Standard Obligation Regulations", and "Guidelines on Maintenance of Bicycle Parking Facilities", and supporting community cycle business has been in place. http://www.mlit.go.jp/toshi/crd_gairo_tk_000015.html</p>
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			<p>Examples of important actions that you plan to carry out in next year (2017~2018) Continue to develop facilities such as station square, pedestrian deck, free passage and public transport.</p> <p>In accordance with Article 9 of the Bicycle Utilization Promotion Act, the "Bicycle Utilization Promotion Plan" will be formulated (scheduled) to promote comprehensive and systematic measures for promoting the utilization of bicycles.</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>Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</p> <p>Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable</p>
"Shift" Strategy	5	<p>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</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>Local public transport network is falling in decline due to higher dependence on the private owned vehicles in provincial cities.</p> <p>Promotion of standardization and reciprocal usage of Public Transport IC Cards: Since each operator had different IC Cards, there were troubles not to be able to use the same card as usual at the same time when transferring to public or private transports by different operators.</p>

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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 website Public transport usage conversion business toward a low-carbon community

Public transport usage conversion business toward a low-carbon community

For promotion of using public transportation of less CO2 emission than private owned vehicles, we support to improve convenience, reconstruction and the expansion of the public transportation network system, such as the adoption of LRT, BRT, etc.

Standardization on IC Cards (the end of 2014)

To enhance the convenience for the users' interoperation as well as expanding versatility of Public Transport, IC Cards was improved to make it possible the interoperation of 10 IC Cards issued by JR Companies and other major private railways in Tokyo Metropolitan, Nagoya, Osaka, and Kyushu Areas and started operation on 23rd March 2013.

http://www.mlit.go.jp/tetudo/tetudo_tk6_000015.html

Examples of important actions that you plan to carry out in next year (2017~2018)

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?

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

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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	<p>Any action had been taken so far?</p> <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>Facilitation of road traffic/Traffic Demand Management(TDM)</p> <p>The implementation of TDM to better utilize transport system by promoting Park & Ride, enhancing the provision of information, to improve transport efficiency and level off traffic volume in terms of time and space.</p> <p>http://www.mlit.go.jp/road/sisaku/tdm/TOP_PAGE.htm</p> <p>TDM Operation Test (Relevant to Goal 19):</p> <p>For further implementation of TDM such as promotion of using public transportation as well as improving the efficiency of distribution system in urban areas, some financial supports were provided for the approved project plans.</p> <p>http://www.mlit.go.jp/sogoseisaku/tdm/tdm.html</p>			
	<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p>			

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			<p>What importance does this particular EST Goal attach in your country’s on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p>Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</p> <p>Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable</p>	
<p>“Shift” Strategy</p>	<p>7</p>	<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><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>In promoting modal shift, the consignors have worries about the expense burden and transportation quality (i.e. punctuality, damage, etc.), so that the coordination by the parties concerned such as logistics company, shipper should be required for the solution.</p> <p>For promotion of modal shift from trucks to railways, the introduction of 31ft container on trains (the same size as 10t trucks often used for long distance freight) would be effective. But a large investment in equipment installation could be an obstacle to expanding the implementation.</p> <p>To reduce CO2 emission of large sized vehicles which account for one third of CO2 emissions in the transportation sector, it is necessary to carry out the introduction of low carbonization for large sized vehicles.</p> <p>Developing the national economy, expanding people’s living sphere, and local development permanently are required.</p>

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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.

Modal shift for promotion project etc.

Support for initiatives such as modal shift implemented by a council consisting of shippers and logistics companies

http://www.mlit.go.jp/seisakutokatsu/freight/ms_subsidy.html

Promotion of CO2 reduction measures in logistics sector

In low carbonization in total logistics system, including modal shift to railway, the introduction of facility or technology to constrain CO2 emission originated from energy consumption in logistics sector has been supported.

<https://www.env.go.jp/press/105373.html>

Low carbon promotion planning, making use of railway(2012 through 2016)

<http://www.env.go.jp/press/press.php?serial=15151>

Promotion of low carbonized large-sized vehicles

Accelerate the diffusion promotion of low-carbon type diesel truck

In order to reduce CO2 emissions in the large-sized Automobile field where diffusion of next-generation vehicles is more difficult than passenger cars, from fiscal 2016, for the transportation industry with a long mileage and high transportation efficiency, the introduction of low-carbon type diesel truck with advanced fuel efficiency performance for small and medium-sized enterprises with poor capital are intensively supported.

http://www.env.go.jp/earth/energy-taisaku/tokubetsu-kaikei/h30/h30_jigyogaiyo/037.pdf

Expediting introduction of advanced environmental trucks and busses

Supporting to expedite introduction of advanced ecological vehicles (EV, FCV, HV, High-Velocity CNG), still at the initial stage of spread, in conjunction with related ministries, could bring about a mass prevail of

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Shinkansen (super express train) network

Currently, the construction of three sections, Hokkaido Shinkansen (between Shin-Hakodate-Hokuto and Sapporo), Hokuriku Shinkansen (between Kanazawa and Tsuruga) and Kyushu Shinkansen (between Takeo-Onsen and Nagasaki), are steadily progressing.

http://www.mlit.go.jp/tetudo/tetudo_fr1_000041.html

Examples of important actions that you plan to carry out in next year (2017~2018)

Promotion of motorization of large-sized vehicles

Accelerating the introduction of electrified trucks and buses

It is important to reduce CO2 emissions from trucks and buses, which accounts for 30% of CO2 emissions in the transportation sector, in order to achieve the global warming countermeasure target. Not only are electric powered trucks and buses expensive compared to diesel trucks, but the fact that charging facilities for trucks and buses are not enough, and it impede popularization.

We also aid in the development of charging infrastructure indispensable for the spread of electrified trucks and buses, and we will start a project to support accelerating the introduction in the early stage of diffusion will be started (on budget request).

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?

Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all

III. Strategies to Improve transport practices and technologies

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<p>“Improve” Strategy</p>	<p>8</p>	<p>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</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>Next-generation automobiles such as Electric Vehicles (EVs) have limitations in implementation due to obstacles such as costs, cruising distance, and insufficient supply of recharging stations.</p> <p>We set a goal for the ratio of the next generation vehicles of the total new vehicle sales to be 50-70% by FY2030, which requires the raise from the existing of 35.6% in FY2016, which implies the double increase in the ratio.</p>
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The Government aims to capture 50-70% of next-generation automobiles such as FCVs and EVs to total new car sales by 2030. To this end, the Government has taken measures such as tax breaks, subsidy for creating initial demand and supporting R&D.

Implementation of Tax Reduction for Automobiles, etc. to support buying new next generation cars.

Toward the diffusion and promotion of next-generation vehicles such as EVs including Super Light-weight Vehicles, we will focus on supporting pioneer measures that are integrated into urban development of the local governments.

Technological development of fuel cell forklifts, fuel cell waste collection vehicles and fuel supply stations derived from renewable energy etc.

In order to further promote greening the Motor Vehicle Taxation and by other taxations according to the environmental performance,

Reduction of effective environmental burden through the improvement and dissemination of environmental technology

Simultaneously realize reducing the burden for a person who choose to purchase vehicles with superior environmental performance.

Examples of important actions that you plan to carry out in next year (2017~2018)

We will continue to specifically subsidize the introduction of hydrogen stations derived from renewable energy.

Implement introduction assistance to disseminate and promote fuel cell buses and fuel cell forklifts.

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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>Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all</p>
“Improve” Strategy	9	<p>Set progressive, appropriate, and affordable standards for fuel quality, fuel efficiency, and tailpipe emissions for all vehicle types, including new and in-use vehicles</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some progress (design – piloting)</p> <p><input checked="" type="checkbox"/> 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>Based on the fact that CO2 emission from vehicles accounts for 15% of our total emission, by setting up vehicle fuel standard, it is required to promote improvement of fuel efficiency. From the viewpoint of further reducing CO2 emissions, it is important to formulate the next fuel economy standard for passenger vehicles.</p> <p>Taking our atmospheric environment into account, we need to regulate vehicle emissions, while our regulations would harmonize for UN regulations. It is important to promote international harmonization as the automotive industry is a global industry.</p>

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Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.

The goal for vehicle fuel cost standard

http://www.mlit.go.jp/jidosha/jidosha_fr10_000005.html

We have participated in the United Nations Economic Commission for Europe (UN-ECE), World Forum for Harmonization of Vehicle Regulations (WP29) and contributed to the global harmonization of vehicle emissions regulations.

Examples of important actions that you plan to carry out in next year (2017~2018)

Study on forthcoming fuel cost standard for heavy-duty vehicles

World harmonized light vehicles test procedure (WLTP) was introduced in 2018.

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?

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

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“Improve” Strategy	10	<p>Establish effective vehicle testing and compliance regimes, including formal vehicle registration systems and appropriate periodic vehicle inspection and maintenance (I/M) requirements, with particular emphasis on commercial vehicles, to enforce progressive emission and safety standards, resulting in older polluting commercial vehicles being gradually phased-out from the vehicle fleet, as well as testing and</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>There is no method for proper maintenance and inspection of electronic devices which can handle the safety equipment and exhaust gas control.</p> <p>EQSs for Air at Roadside</p> <p>Although achievement rates of Environmental Quality Standards (EQSs) for Air at roadside nitrogen dioxide (NO₂) and Suspended Particulate Matter (SPM) have largely increased (i.e. NO₂ improved from 80% in 2000 to 99.5% in 2017), there remain polluted spots that are not meeting EQSs within the metropolitan areas along the arterial roads.</p>
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		<p>compliance regimes for vessels</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>Vehicle Registration and Inspection system</p> <p>By being registered to the government, taking hold of the actual state of ownership and the authentication of proprietary rights are performed securely. The government inspects each vehicle periodically according to technical regulations and checks to meet safety and emission standards.</p> <p>http://www.mlit.go.jp/jidosha/jidosha_fr6_000007.html</p> <p>Practices based on Act on automobile NOx · PM</p> <p>Based on the strict regulations (Act on automobile NOx · PM), which prohibit the registration of old-fashioned trucks and buses (not pass vehicle inspections), we are trying to promote substitution of old vehicles, and improve the atmospheric environment.</p> <p>Furthermore, in compliance with “National Basic Policy for Total Reduction” (Mar. 2011). 8 prefectures located in metropolitan area have made total reduction plan to secure environment standard by 2020 in their regions and progress in the restriction for vehicles in use, in cooperation with the national government, local communities and road administrators.</p> <p>http://www.env.go.jp/air/car/noxpm/H23-3kihonhousin.htm</p> <hr/> <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>We began studying the method of maintenance and inspection of electronic devices.</p> <p>Roadside air environment measures</p> <p>Take necessary measures to secure environmental standards in the countermeasures area for the target of 2020.</p>
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"Improve" Strategy	11	<p>Adopt Intelligent Transportation Systems (ITS), such as electronic fare and road user charging systems, transport control centres, and real-time user information, when applicable</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input 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>ETC2.0</p> <p>By introducing ETC2.0, in addition to services to avoid traffic jam, new safety driving service, utilizing the routing information gathered through ITS spots, will be expanded.</p> <p>http://www.mlit.go.jp/road/ITS/j-html/etc2/jyouhou.html</p>	
			<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>Implementation of operation management for all bus and truck companies using specified probe data of ETC 2.0, and offering delay information to users at the bus terminal.</p>	

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			<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p>Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</p> <p>Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable</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	<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>By transforming inefficient distribution system of the conventional facilities to those that are comprehensive, efficient, and environmental friendly, reduction of distribution costs as well as impact on the environment must be required.</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>Implementation of providing support for projects that contribute to reduction of environmental load and labor-saving by integration and efficiency improvement through collaboration among businesses conducting multiple distribution businesses</p> <p>Act on Advancement of Integration and Streamlining of Distribution Business http://www.mlit.go.jp/seisakutokatsu/freight/bukkouhou.html</p> <p>Revision of the above Act http://www.mlit.go.jp/report/press/tokatsu01_hh_000248.html</p>	

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			<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p>
			<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p>Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</p> <p>Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable</p>
IV. Cross-cutting strategies			
"Cross-Cutting"	13	<p>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 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: Amongst G7 countries, Japan has the highest number of pedestrians and bicycle drivers fatalities, and a half of them come across the accidents within 500m away from their homes.</p>

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	<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>Measures to Prevent Traffic Accidents</p> <p>On arterial roads in areas with high traffic accident risk according to the data and from the local input, effective measures responding to accident factors are implemented intensively. http://www.mlit.go.jp/road/road/traffic/sesaku/torikumi.html#2-1</p> <p>On community roads, by effectively and efficiently arranging Speed Bumps, etc., we are trying to control speed reduction and entry suppression of through-traffic in order to promote the creation of pedestrian-bicycle zone space. http://www.mlit.go.jp/road/road/traffic/sesaku/torikumi.html#2-2</p> <hr/> <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>Identifying potential hazards such as excessive speed and sudden braking on the living road, and implement effective measures by means of utilizing BIG DATA.</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>Goal 3. Ensure healthy lives and promote well-being for all at all ages</p>
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“Cross-Cutting” Strategy	14	Promote monitoring of the health impacts from transport emissions and noise, especially with regard to incidences of asthma, other pulmonary diseases, and heart disease in major cities, assess the economic impacts of air pollution and noise, and devise mitigation strategies, especially aiding sensitive populations near high traffic concentrations	Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input 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.	
			Examples of important actions that you plan to carry out in next year (2017~2018)	
			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?	
“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 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: Although the status of achievement of EQSs for air has slowly improved, there still remain substances that are not meeting EQSs. While the status of achievement of EQSs for Noise is gradually improving, 6% has not yet achieved it and around 10%, particularly on arterial roads in large cities.

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	<p>occurrence of days in which pollutant levels of particulate matter, nitrogen oxides, sulphur oxides, carbon monoxide, and ground-level ozone exceed the national standards or zones where noise levels exceed the national standards, especially with regard to environments near high traffic concentrations</p>	<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p>Constant Monitoring of Air Pollution by Local Governments under Air Pollution Control Law: For systematic implementation of measures for air pollution, constant monitoring of local air pollution is conducted by local governments and the data is gathered by the national government. Results are available at real-time via online (“Soramame-kun”). http://soramame.taiki.go.jp/</p> <p>Constant Monitoring of Motor Vehicle Traffic Noise by Local Governments under Noise Regulation Law: For systematic implementation of measures for road traffic noise, constant monitoring of local traffic noise is conducted by local governments at sampling stations. The data is simulated for all residential buildings to see sound propagation paths for evaluation of noise exposure. The data is aggregated by the national government and made public annually via the website (note: annually updated). http://tenbou.nies.go.jp/gis/monitor/?map_mode=monitoring_map&field=8</p> <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>What importance does this particular EST Goal attach in your country’s on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p>Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</p> <p>Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable</p>
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“Cross-Cutting” Strategy	16	Implement sustainable low-carbon transport initiatives to mitigate the causes of global climate change and to fortify national energy security , and to report the inventory of all greenhouse gases emitted from the transport sector in the National Communication to the UNFCCC	<p>Any action had been taken so far?</p> <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>To be addressed in the other related subject</p>			
	<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p>			
	<p>What importance does this particular EST Goal attach in your country’s on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p>Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</p> <p>Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable</p>			

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“Cross-Cutting” Strategy	17	<p>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</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>For realizing “convivial society”, City planning with universal design should be required to devise removing physical and informative hazards for hampering handicapped people to freely move, enjoy sports.</p> <p>For highly senior society, high level of barrier-free design should be required for city planning as well at every corner of the country.</p> <p>On the occasion of Olympic/Paralympic Games 2020, substantial number of barrier free designed facilities at the site as well as its enhancement all over the country definitely is required.</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>Promoting barrier-free development throughout the country by the following efforts:</p> <ul style="list-style-type: none"> - Revision of traffic barrier-free standards and guidelines http://www.mlit.go.jp/sogoseisaku/barrierfree/sosei_barrierfree_mn_000001.html - Amendment to the Barrier Free Law "A draft law that revises a part of the law concerning the promotion of facilitation of migration for elderly people, disabled people, etc." http://www.mlit.go.jp/report/press/sogo09_hh_000173.html - Creating a city with universal design / Promotion of mind of barrier-free 			

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		<p>Examples of important actions that you plan to carry out in next year (2017~2018) Enforcement of revised barrier-free law Thoroughly disseminating the traffic barrier-free standards and guidelines, aiming to raise the barrier-free level nationwide.</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? 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</p>		
"Cross-Cutting" Strategy	18	<p>Encourage innovative financing mechanisms for sustainable transport infrastructure and operations through measures, such as parking levies, fuel pricing, time-of-day automated road user charging, and public-private partnerships such as land value capture, including consideration of carbon markets, wherever feasible</p>		
		<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"> <p>Any action had been taken so far?</p> <input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box) </td> <td style="width: 50%;">Barriers/Challenges faced in implementation:</td> </tr> </table>	<p>Any action had been taken so far?</p> <input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation:
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	<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p>			
		<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p>		

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			<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p>
<p>“Cross-Cutting” Strategy</p>	<p>19</p>	<p>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</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>Barriers/Challenges faced in implementation:</p> <p>Challenges faced in implementation:</p> <p>Review the mobility to switch it smart by promoting travel modes with less CO2 emissions such as public transportation, bicycles and walking.</p> <p>In other countries, environmental pollution problems such as air pollution accompanying economic growth are becoming obvious, and reducing the emission of environmental pollutants and greenhouse gases are urgent issues in order to realize sustainable economic development.</p> <p>Implementation of environmental-friendly driving methods is necessary (i.e. by restraining sudden acceleration, hard braking and idling, etc.) to reduce CO2 and air pollutants emissions.</p> <p>Although the usage of Eco-drive Management Systems are becoming popular among transport operators which show certain positive effects, the dissemination of public awareness among individual drivers still remain a challenge.</p> <p>About 20% of CO2 emission inland is derived from the transport sector of which 80% are from automobiles.</p>

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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.

International cooperation

Using experience and technology cultivated by Japan, we will develop approaches to achieve Co-Benefits by reducing emissions of air pollutants and greenhouse gas emissions derived from energy

Formulation and dissemination of "Recommendation for Eco-Drive 10"

Every November is designated as "Eco-Drive Promotion Month" so that relevant organizations and local governments hold lectures and other promotional events regularly.

http://www.mlit.go.jp/sogoseisaku/environment/sosei_environment_tk_000013.html

Training human resources

In order to train human resources to lead the transportation by environmental measures in the region, the training and seminars are implemented. In addition, excellent measures of the regions are awarded.

<http://www.estfukyu.jp/training2017.html>

<http://www.estfukyu.jp/sohatsu2017.html>

<http://www.estfukyu.jp/kotsukankyotaisho2017.html>

For regions that voluntarily work on realizing EST, we built a database to show the current** outcomes of the EST approach.

http://www.mlit.go.jp/sogoseisaku/environment/est_database/index.html

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			<p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>In FY 2018, we will implement a Co-Benefit Approach by introducing Eco-Drive for Sri Lanka.</p> <ul style="list-style-type: none"> - Implementation of Eco-Drive diagnosis, improvement guidance and training on the route bus as model object. - Sharing of knowledge on measures against air pollution in Japan through joint policy research meetings and expert meetings. - Holding seminars that broadly introduce efforts of Eco-Drive.
			<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>Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</p> <p>Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable</p>
“Cross-Cutting”	20	Develop dedicated and funded institutions that address sustainable transport-land use policies and implementation, including research and development on environmentally-sustainable	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input 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> <p>Further study on reduction of GHGs as well as establishment of EST is needed</p>

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	<p>transport, and promote good governance through implementation of environmental impact assessments for major transport projects</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>EST related research institute: http://www.estfukyu.jp</p> <p>The following research is conducted at National Institute for Land and Infrastructure Management, MLIT:</p> <p>Study on the Reduction of CO2 Emissions in Road Transportation: Study on reduction of CO2 emission in driving and on CO2 emission process models of the transport sector.</p> <p>http://www.nilim.go.jp/lab/dcg/kadai/kadai2.htm http://www.nilim.go.jp/lab/dcg/seika/ronbun/h29/2h29.htm</p> <p>Research on Implementation and Promotion of Life-Cycle Assessment on Social Capital: To assist low-carbon, sound material-cycle, sustainable social capital development technically, we conduct research for practical use and spread of social capital LCA (Life Cycle Assessment).</p> <p>http://www.nilim.go.jp/lab/dcg/lca/top.htm</p> <hr/> <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p>
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		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p>
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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