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

EST for Resiliency – Building Safe, Smart, Low-carbon and Resilient Cities in Asia

Country Report

(Draft)

<Japan>

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

Country EST Report (covering last 5 years / 2010-15)

a) Japan

b) Ministry of the Environment

c) Ministry of Land, Infrastructure, Transport and Tourism

Notes to This Report:

1, The measure are taken currently under multiple involvements and various ways among national, local government and private sector for many challenges confronting at city and regional level

2. The report is composed by the way of introducing each measure individually related to the Ministry of the Environment and the Ministry of Land, Infrastructure, Transport and Tourism to contribute to the goal directly or indirectly.

Go	al	Goal Description	Voluntary Progress/Achievements/Maj	or Initiatives, including any transport master plans,		
No.	•		development of special transport corridors, in Implementing the Bangkok 2020			
			Declaration over last 5 years (2010-201	5)		
I. S	strate	itegies to <u>Avoid</u> unnecessary travel and reduce trip distances				
	1	Formally integrate land-use and	Any action had been taken so far?	Challenges faced in implementation:		
		transport planning processes and	\Box Not yet	(1) From the viewpoint of realizing a desirable urban		
		related institutional arrangements at	\Box Some (design – piloting)	and rural image, promotion of comprehensive and		
		the local, regional, and national levels	■ Largely in Place	strategic transport policy linked up with transport		
			□ Fully Completed	business and urban development is required.		
			(Please Check the box)	(2)From the perspective of promoting low carbon		
y				city development in urban areas where the population		
ateg				and buildings are concentrated in a substantive		
"Avoid" Strategy				degree, to create sustainable and vigorous		
oid"				communities is required by promoting the		
WVG,				implementation of low carbonization measures for		
ÿ				urban structure and transport sector.		
				(3)In the rural areas, by the decrease of passengers		
				carried by the public transport, reduction of the		
				public transport network and downgrade of service		
				level is concerned. Therefore it is necessary to build a		
				compact city that ensures local public transport		
				network in cooperation.		

development of special transport corridors, in Implementing the Bangkok 2020
Declaration over last 5 years (2010-2015)
Examples of pilot projects and/or policies developed or under development - include URLs
where relevant
(1) Implementation of formulating comprehensive urban and regional transport strategies and
overall support for efforts based on these strategies. In the City of Toyama, for instance,
integration of land-use and transport is in progress, with public transportation as the central axis
and promotion of dwelling in city centres or along the public transportations.
<http: toshi="" toshi_gairo_fr_000015.html="" www.mlit.go.jp=""></http:>
(2) Based on the "Low Carbon City Act" the planning of "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 drawn up and established by 19 municipal
governments currently as of September 2015.
(3) Local governments play a central role, in cooperation with the urban development, in order to
rebuild the whole area public transport network, amended the "Law on Activation and
Regeneration of Local Public Transport in May 2014, sustainable local public transport network
to support the efforts to achieve the formation."Regional Public Transport Network Formation
Plan", created by the local governments of which currently 55 are established as of September
2015.
Important actions you will carry out in next 5 years (2015~2020)

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No.			development of special transport corr	idors, in Implementing the Bangkok 2020	
			Declaration over last 5 years (2010-2015)		
	2	Achieve mixed-use development	Any action had been taken so far?	Challenges faced in implementation:	
		and medium-to-high densities along	□ Not yet		
2		key corridors within cities through	□ Some (design – piloting)		
tegy		appropriate land - use policies and	\Box Largely in Place		
Stra		provide people - oriented local	□ Fully Completed		
"Avoid" Strategy		access,	(Please Check the box)		
Avo		and actively promote transit-oriented	Examples of pilot projects and/or policies	developed or under development - include URLs	
3 3 7		development (TOD) when	where relevant		
		introducing new public			
		transport infrastructure	Important actions you will carry out in next 5	years (2015~2020)	
	3	Institute policies, programmes, and	Any action had been taken so far?	hallenges faced in implementation:	
		projects supporting Information and	□ Not yet		
		Communications Technologies	\Box Some (design – piloting)		
egy		(ICT), such as internet access,	\Box Largely in Place		
trate		teleconferencing, and telecommuting,	□ Fully Completed		
l'' S		as a means to reduce unneeded travel	(Please Check the box)		
"Avoid" Strategy					
Υ,,					
			Examples of pilot projects and/or policies developed or under development - include URLs		
			where relevant		
			Important actions you will carry out in next 5	years (2015~2020)	

Goa	al	Goal Description	Voluntary Progress/Achievements/Majo	or Initiatives, including any transport master plans,
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II. \$	Strate	egies to <u>Shift</u> towards more sustainable	e modes	
	4	Require Non-Motorized Transport	Any action had been taken so far?	Challenges faced in implementation:
		(NMT) components in transport	\Box Not yet	(1)Although the construction of free passages is
gy		master plans in all major cities and	\Box Some (design – piloting)	based on "Guidelines for the Maintenance and the
Strategy		prioritize transport infrastructure	■ Largely in Place	Management of Free Passages (June 2009)" there are
"St		investments to NMT, including	□ Fully Completed	often cases when discussions with the railway
"Shift"		wide-scale improvements to	(Please Check the box)	business operators run into difficulties to decide the
Ş,		pedestrian and bicycle facilities,		cost allocation.
		development of facilities for		(2)The number of bicycle versus pedestrian
		intermodal connectivity, and adoption		accidents, has increased about 30% in these 10 years.

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	of complete street design standards,	Examples of pilot projects and/or policies developed or under development - include URLs
	wherever feasible	where relevant
		(1) The Promotion of Upgrading Transport Nodes
		\bigcirc For example, maintenances have been performed to the station square of Matsumoto Station,
		Nagano prf. and Hatsukaichi City Office Station in Hiroshima pref. to devise the line of flow to
		transfer trolleys and busses.
		<http: toshi="" toshi_gairo_tk_000019.html="" www.mlit.go.jp=""></http:>
		OUpgrading Transport Nodes in Shinjuku
		By creating an artificial ground up in the air over the JR East railway track, constructing
		buildings that offer functions of a station facility pedestrian square, a taxi berth, a space for
		people getting on and out of private passenger vehicles and Highway buses related facilities in
		front of the south exit of Shinjuku Station, we are promoting to upgrade the space in front of the
		station as a comprehensive transport node.
		<http: saisei="" shinjuku="" shinjuku.htm="" toukoku="" www.ktr.mlit.go.jp=""></http:>
		<http: index.htm="" saisei="" shinjuku="" toukoku="" www.ktr.mlit.go.jp=""></http:>
		(2) Measure of Active Use of Bicycle
		OThe development of "Bicycle Parking Attachment Duty Regulations", the development of
		"Guidelines on Maintenance of Bicycle Parking Facilities" the business support community
		cycle implementation.
		OFor a purpose to create a safe and comfortable environment for the utilization of bicycles,
		MLIT and the National Police Agency (NPA) jointly formulated the "Guideline for Creating a
		Safe & Comfortable Bicycle-Use Environment" in November 2012. Thus support formulation of
		bicycle network planning and upgrading the spaces for bicycle traffic. 7/31

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			Important actions you will carry out in ney	xt 5 years (2015~2020)
	5	Improve public transport services	Any action had been taken so far?	Challenges faced in implementation:
		including high quality and affordable	\Box Not yet	(1) Promotion of standardization and reciprocal usage
		services on dedicated infrastructure	\Box Some (design – piloting)	of Public Transport IC Cards: Since each operator
Strategy		along major arterial corridors in the	■ Largely in Place	had different IC Cards, there were troubles not to be
Stra		city and connect with feeder services	□Fully Completed	able to use the same card as usual at the same time
ft" :		into residential communities	(Please Check the box)	when transferring to public transports of different
"Shift"				operators.
ÿ				(2) Local public transport network is falling in
				decline due to higher dependence on the private
				owned vehicles in provincial cities.

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			Examples of pilot projects and/or policie	es developed or under development - include URLs
			where relevant	
			(1)To enhance the convenience for the use	ers, interoperation as well as expansion of versatility of
			Public Transport IC Cards for other purpos	ses has been introduced.
			On 23 March 2013, the interoperation of	10 IC Cards published by JR Companies and major
			private railways in Tokyo Metropolitan, N	agoya, Osaka, and Kyushu Areas was launched.
			<http: td="" tetudo="" tetudo_tk6_<="" www.mlit.go.jp=""><td>_000015.html></td></http:>	_000015.html>
			(2)Public transport usage conversion busin	ess toward a low-carbon community
			For promotion of using public transportation	ion 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.
			Important actions you will carry out in nex	at 5 years (2015~2020)
	6	Reduce the urban transport mode	Any action had been taken so far?	Challenges faced in implementation:
×		share of private motorized vehicles	\Box Not yet	
tteg.		through Transportation Demand	\Box Some (design – piloting)	
Stra		Management (TDM) measures,	■ Largely in Place	
ift"		including pricing measures that	□ Fully Completed	
"Shift" Strategy		integrate congestion, safety, and	(Please Check the box)	
		pollution costs, aimed at gradually		

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	reducing price distortions that directly	Examples of pilot projects and/or policies developed or under development - include URLs		
	or indirectly encourage driving,	where relevant		
	motorization, and sprawl	(1) Promoting the implementation of TDM:		
		Promoting the implementation of TDM to better utilize transport system by promoting Park &		
		Ride, enhancing the provision of information, to improve transport efficiency and standardize		
		traffic volume in terms of time and space.		
		(2)TDM Operation Test (Relevant to Goal 19):		
		For further implementation of TDM such as promotion of using public transportation as well as		
		improving the efficiency of distribution system in urban areas and financial support was provided		
		to the approved project plans.		
		<http: sogoseisaku="" tdm="" tdmhtml="" www.mlit.go.jp=""></http:>		
		Important actions you will carry out in next 5 years (2015~2020)		

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	7	Achieve significant shifts to more	Any action had been taken so far?	Challenges faced in implementation:		
		sustainable modes of inter-city	\Box Not yet	(1) The anxiety of the consignors for the expense		
		passenger and goods transport,	\Box Some (design – piloting)	burden and transportation quality (i.e. punctuality,		
		including priority for high-quality	■ Largely in Place	damage, etc.) is being an obstacle on promoting		
		long distance bus, inland water	□ Fully Completed	modal shift.		
		transport, high-speed rail over car and	(Please Check the box)	(2) For promotion of modal shift from tracks to		
		air passenger travel, and priority for		railways, a number of 31ft container trains (the same		
		train and barge freight over truck and		size as 10t tracks often used for long distance freight)		
~		air freight by building supporting		were needed and a large investment in equipment		
"Shift" Strategy		infrastructure such as dry inland ports		installation was an obstacle to the implementation.		
Stra				(3) It is necessary to attempt the reduction of CO2		
ift"				emission of large sized vehicles which account for		
'Shi				one third of CO2 emissions in the transportation		
5				sector, by an alternative promotion to environmental-		
				ly friendly vehicles with fewer CO2 emissions which		
				are too expensive for small and medium sized		
				carriers with limited investment capability to afford		
				who therefore tend to keep on using aging vehicles		
				with lower fuel efficiency.		
				(4) Shinkansen Railway Development Program:		
				This project is aimed at developing the national and		
				regional economy, expanding people's living sphere.		

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		Examples of pilot projects and/or policies developed or under development - include URLs
		where relevant
		(1) Promotion of Modal Shift:
		http://www.mlit.go.jp/seisakutokatsu/freight/seisakutokatsu_freight/seisakutokatsu_freight_tk1_000003.html
		(2) Promotion of Low Carbonization of Freight Using Railways (Beginning in 2012):
		Support modal shift from tracks to railways with provision of partial funding for purchasing 31ft
		container trains to freight railway business operators.
		<http: press="" press.php?serial="15151" www.env.go.jp=""></http:>
		(3) Promotion of Low Carbonization for small and medium operators
		In order to reduce CO2 emission of truckload transportation, support small and medium
		operators to alter aging vehicles to fuel efficient environmentally friendly vehicles.
		<http: 022.pdf="" budget="" guide="" h27="" h27-gaiyo="" www.env.go.jp=""></http:>
		(4)Hokkaido Shinkansen (between Shinaomori – Shinhakodate-hokuto) is steadily on its way of
		construction aiming to completion and to start the operation by the end of FY2015, while
		development of the 5 new construction lines, i.e. Hokkaido Shinkansen (between
		Shinhakodate-hokuto - Sapporo), Hokuriku Shinkansen (between Kanazawa - Suruga) and
		Kyushu Shinkansen (between Takeo-onnsenn – Nagasaki) are steadily being promoted.

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	Important actions		Important actions you will carry out in nex	xt 5 years (2015~2020)
			(3) Advanced Environmentally-friendly Tr	rucks and Buses Introduction Acceleration Business
			From FY2016, in cooperation with relevan	nt ministries and agencies, we will support accelerating
			the introduction of environment-friend	dly vehicles with highly advanced environmental
			performance in the early stage to be spre	ad, targeting the businesses that own trucks and buses
			(EV, FCV, HV, high-speed running Cl	NG) that lead to mass dissemination of advanced
			environment-friendly vehicles.	
			(4)Under the Nationwide Shinkansen	Railway Development Law, Hokkaido Shinkansen
			(between Shinaomori – Shinhakodate-hol	kuto) is steadily on its way of construction aiming to
			completion and to start the operation by th	e end of FY2015
III.	Strat	tegies to <u>Improve</u> transport practices a	and technologies	
	8	Diversify towards more sustainable	Any action had been taken so far?	Challenges faced in implementation:
Ē		transport fuels and technologies,	\Box Not yet	Next-generation automobiles such as Electric
egy'		including greater market penetration	\Box Some (design – piloting)	Vehicles (EVs) have limitations in implementation
trat		of options such as vehicles operating	■ Largely in Place	due to obstacles such as costs, cruising distance, and
e, S		on electricity generated from	□ Fully Completed	insufficient supply of recharging stations.
IOV		renewable sources, hybrid	(Please Check the box)	We set a goal to raise the ratio of the next generation
"Improve" StrategyT		technology, and natural gas		vehicles of the total new vehicle sales that was 24%
33				in FY2014 to be 50-70% by FY2030. We need to
				double the number of such vehicles to be spread.

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		Examples of pilot projects and/or policies developed or under development - include URLs
		where relevant
		(1) 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 Ultra
		Light-weight Vehicles, we will focus to support pioneering measures that are integrated to urban
		development of the local governments.
		· Technological development of fuel cell buses, fuel cell forklifts, fuel cell waste collection
		vehicles and renewable energy derived from fuel supply stations, etc.
		• In order to further promote greening the Motor Vehicle Taxation and by other taxations
		according to the environmental performance,
		①Reduction of effective environmental burden through the improvement and dissemination of
		environmental technology
		②Simultaneously realize reducing the burden for a person who choose to purchase vehicles of
		superior environmental performance.

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			Important actions you will carry out in nex	xt 5 years (2015~2020)	
			• FCVs have been introduced sequentially from December 2014. We are planning to introduce		
			fuel cell buses and fuel cell forklifts during FY2016, while fuel cell waste collection vehicles are		
			due to be introduced during FY 2018/		
			•By FY2019, fuel supply stations derived	from renewable energy are expected to be equipped (in	
			about 100 locations nationwide).		
	9	Set progressive, appropriate, and	Any action had been taken so far?	Challenges faced in implementation:	
		affordable standards for fuel quality,	\Box Not yet	(1)Taking the atmospheric environment of our	
		fuel efficiency, and tailpipe emissions	\Box Some (design – piloting)	country into account, we need to adopt vehicle	
		for all vehicle types, including new	■ Largely in Place	emissions control. Besides, its regulation should meet	
		and in-use vehicles	□ Fully Completed	the global standard in light of the motor industry	
tegy			(Please Check the box)	being a global industry.	
Stra				(2) Establishment of new fuel efficiency standards	
"Improve" Strategy				for heavy duty vehicles (i.e. buses, trucks, etc.)	
pro			Examples of pilot projects and/or polici	es developed or under development - include URLs	
mI'			where relevant		
			(1)Participate in the United Nations Econo	omic Commission for Europe (UN-ECE) World Forum	
			for Harmonization of Vehicle Regulations	(WP29) and contribute to the global harmonization of	
vehicle emissions regulation		vehicle emissions regulations.			
			(2) Review of the Automobile Fuel Effic	iency Targets (the Top Runner Approach based on the	
			Energy Saving Law) under consideration.		

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			Important actions you will carry out in next 5 years (2015~2020)				
			(1)We are planning to introduce the V	Vorldwide Motorcycle Testing Cycle (WMTC) and			
			Worldwide harmonized Heavy-Duty emis	sion Certification (WHDC) from FY2016. Furthermore			
			from FY 2018, we are planning to in	troduce Worldwide harmonized Light vehicles Test			
			Procedures (WLTP).				
			(2) We are planning to introduce stricter v	ehicle efficiency regulations from FY2020.			
	10	Establish effective vehicle testing and	Any action had been taken so far?	Challenges faced in implementation:			
		compliance regimes, including formal	\Box Not yet	(2)Although achievement rates of Environmental			
gy		vehicle registration systems and	\Box Some (design – piloting)	Quality Standards (EQSs) for Air of roadside			
Strategy		appropriate periodic vehicle	■ Largely in Place	nitrogen dioxide (NO2) and Suspended particulate			
" St		inspection and maintenance (I/M)	□ Fully Completed	matter (SPM) have largely increased (i.e. NO2			
'Improve''		requirements, with particular	(Please Check the box)	improved from 80% in 2000 to 99% in 2013), there			
ıduı		emphasis on commercial vehicles, to		remain polluted spots that are not meeting EQSs			
I,,		enforce progressive emission and		within the metropolitan areas along the arterial roads.			
		safety standards, resulting in older					

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	polluting commercial vehicles being	Examples of pilot projects and/or policies developed or under development - include URLs	
	gradually phased-out from the vehicle	where relevant	
	fleet, as well as testing and	(1) Vehicle Registration and Inspection System:	
	compliance regimes for vessels	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 confirms the	
		compliance of safety and environmental standards by inspecting each vehicle regularly.	
		<http: jidosha="" jidosha_fr6_000007.html="" www.mlit.go.jp=""></http:>	
		(2) Measures based on the Automobile NOx-PM Law:	
		In accordance with Guideline for Total Emissions Control (amended in March 2011), 8	
		prefectures in metropolitan areas are to formulate Total Emissions Control Plan by FY2015 and	
		implement measures for emissions from in-use vehicles in order to achieve EQSs at all	
		monitoring stations by FY2020 in collaboration of national and local governments and road	
		administrators.	
		<http: air="" car="" h23-3kihonhousin.html="" noxpm="" www.env.go.jp=""></http:>	
		Important actions you will carry out in next 5 years (2015~2020)	
		(2)We set a goal to meet the target of air quality standards pertaining to NO2 and SPM in every	
		monitoring station by FY2015, of which accomplishment situation and check evaluation of the	
		future approach will be performed in the 2015-2016 year. Additionally, the evaluation method of	
		the target for securing the air quality standard of the target area which is the FY2020 goal will be	
		considered.	

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	11	Adopt Intelligent Transportation	Any action had been taken so far?	Challenges faced in implementation:		
		Systems (ITS), such as electronic fare	\Box Not yet			
		and road user charging systems,	\Box Some (design – piloting)			
		transport control centres, and	■ Largely in Place			
1		real-time user information, when	□ Fully Completed			
"Improve" Strategy		applicable	(Please Check the box)			
Stra						
e" (Examples of pilot projects and/or policie	es developed or under development - include URLs		
rov			where relevant			
Imp			ETC2.0:			
"			By introducing ETC2.0, expansion of ne	ew services such as utilizing the routing information		
			gathered through ITS spots, as well as to a	void traffic jams and safety drive supporting services.		
			http://www.mlit.go.jp/road/ITS/j-html/etc2	2/index.html		
			Important actions you will carry out in 201	4~2015		
			Promotion of ETC2.0:			

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	12	Achieve improved freight transport	Any action had been taken so far?	Challenges faced in implementation:	
		efficiency, including road, rail, air,	\Box Not yet	By transforming inefficient distribution system of the	
		and water, through policies,	\Box Some (design – piloting)	conventional facilities to those that are	
		programmes, and projects that	■ Largely in Place	comprehensive, efficient, and environment-friendly,	
tegy		modernize the freight vehicle	□ Fully Completed	reduction of distribution costs as well as impact on	
Strategy		technology, implement fleet control	(Please Check the box)	the environment must be accomplished.	
'e'' ;		and management systems, and			
"Improve"		support better logistics and supply			
lml		chain management	Examples of pilot projects and/or policie	es developed or under development - include URLs	
,			where relevant		
			Act on Advancement of Integration and St	reamlining of Distribution Business:	
			<http: frei<="" seisakutokatsu="" td="" www.mlit.go.jp=""><td>ght/butsuryu05300.html></td></http:>	ght/butsuryu05300.html>	
Important action			Important actions you will carry out in nex	xt 5 years (2015~2020)	
IV. 🤇	Cross	-cutting strategies			

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	13	Adopt a zero-fatality policy with	Any action had been taken so far?	Challenges faced in implementation:
5		respect to road, rail, and waterway	\Box Not yet	Around 50% of all road fatalities, consist of
"Cross-Cutting"		safety and implement appropriate	\Box Some (design – piloting)	pedestrians and cyclists, which is extremely high
Cutt		speed control, traffic calming	■ Largely in Place	comparing to 16-17% in Europe and the United
)-SSC		strategies, strict driver licensing,	□ Fully Completed	States.
,Ç		motor vehicle registration, insurance	(Please Check the box)	
5		requirements, and better post-accident		

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	care oriented to significant reductions	Examples of pilot projects and/or policies developed or under development - include URLs	
	in accidents and injuries	where relevant	
		(1) Measures to Prevent Traffic Accidents	
		• In 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.	
		· In community roads, road design with priority for pedestrians is promoted by controlling	
		traffic volume using Speed Bump etc. as well as improving arterial roads.	
		(2)Automobile Liability Security System:	
		• Under the Automobile Liability Security Act, in order to secure liability of the responsible and	
		relief of the victims on automobile accidents, compulsory automobile liability insurance (CALI)	
		for those who operate automobiles for their benefit is implemented. Carrying CALI is a	
		requirement to complete vehicle registration and renewal inspection.	
		· Japanese government implements indemnity services for victims involved in accidents caused	
		by an uninsured or unidentified automobile and cannot be compensated by CALI, offering the	
		same level compensation. This is financed by a levy that is charged on the premiums of CALI.	
		<http: 04relief="" anzen="" index.html="" jidosha="" www.mlit.go.jp=""></http:>	
		Important actions you will carry out in next 5 years (2015~2020)	

Goa	al	Goal Description	Voluntary Progress/Achievements/Majo	or Initiatives, including any transport master plans,
No.			development of special transport co	orridors, in Implementing the Bangkok 2020
			Declaration over last 5 years (2010-2015)	
	14	Promote monitoring of the health	Any action had been taken so far?	Challenges faced in implementation:
		impacts from transport emissions and	\Box Not yet	
egy		noise, especially with regard to	\Box Some (design – piloting)	
trate		incidences of asthma, other	\Box Largely in Place	
S.'S		pulmonary diseases, and heart disease	□ Fully Completed	
"Cross-Cutting" Strategy		in major cities, assess the economic	(Please Check the box)	
-Cu		impacts of air pollution and noise,		
ross		and devise mitigation strategies,		
",C		especially aiding sensitive	Examples of pilot projects and/or policie	es developed or under development - include URLs
		populations near high traffic	where relevant	
		concentrations	Important actions you will carry out in nex	at 5 years (2015~2020)
	15	Establish country-specific,	Any action had been taken so far?	Challenges faced in implementation:
·		progressive, health-based,	\Box Not yet	(1) Although the status of achievement of EQSs for
ing'		cost-effective, and enforceable air	\Box Some (design – piloting)	air has slowly improved, there still remain substances
Cutt		quality and noise standards, also	■ Largely in Place	that are not meeting EQSs.
)-SS(taking into account the WHO	□ Fully Completed	(2) While the status of achievement of EQSs for
"Cross-Cutting"		guidelines, and mandate monitoring	(Please Check the box)	Noise is gradually improving, there remain 7% not
,		and reporting in order to reduce the		achieved and particularly 12% surrounding urban
		occurrence of days in which pollutant		highways in large cities.

Goal	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans,	
No.		development of special transport corridors, in Implementing the Bangkok 2020	
		Declaration over last 5 years (2010-2015)	
	levels of particulate matter, nitrogen	Examples of pilot projects and/or policies developed or under development - include URLs	
	oxides, sulphur oxides, carbon	where relevant	
	monoxide, and ground-level ozone	(1) Constant Monitoring of Air Pollution by Local Governments under Air Pollution Control	
	exceed the national standards or	Law:	
	zones where noise levels exceed the	For systematic implementation of measures for air pollution, constant monitoring of local air	
	national standards, especially with	pollution is conducted by local governments and the data is gathered by the national government.	
	regard to environments near high	Results are available real-time via online ("Soramame-kun").	
	traffic concentrations	<http: soramame.taiki.go.jp=""></http:>	
		(2) 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: ?map_mode="monitoring_map&field=8" gis="" monitor="" tenbou.nies.go.jp=""></http:>	
		Important actions you will carry out in next 5 years (2015~2020)	

Goa	al	Goal Description	Voluntary Progress/Achievements/Majo	or Initiatives, including any transport master plans,
No.			development of special transport corridors, in Implementing the Bangkok 2020	
			Declaration over last 5 years (2010-2015	5)
	16	Implement sustainable low-carbon	Any action had been taken so far?	Challenges faced in implementation:
		transport initiatives to mitigate the	\Box Not yet	It is necessary to continuously submit quadrennial
		causes of global climate change and	\Box Some (design – piloting)	National Communications and biannual GHG
		to fortify national energy security,	■ Largely in Place	inventories that reflect the measures and policies of
		and to report the inventory of all	□ Fully Completed	Japan precisely.
		greenhouse gases emitted from the	(Please Check the box)	
		transport sector in the National		
		Communication to the UNFCCC		
			Examples of pilot projects and/or policie	es developed or under development - include URLs
			where relevant	
~			The Sixth National Communication:	
tegy			http://www.env.go.jp/earth/ondanka/ncbr	:.html>
Stra			<http: annex_i<="" national_reports="" td="" unfccc.int=""><td>i_natcom/submitted_natcom/items/7742.php></td></http:>	i_natcom/submitted_natcom/items/7742.php>
lg',			• <u>The 2013 GHGs Inventory:</u>	
uttin			http://www.env.go.jp/earth/ondanka/ghg/	/index.html>
S-C			<http: annex_i<="" national_reports="" td="" unfccc.int=""><td>i_ghg_inventories/national_inventories_submissions/it</td></http:>	i_ghg_inventories/national_inventories_submissions/it
"Cross-Cutting" Strategy			ems/8812.php>	
<u></u> ,			Important actions you will carry out in nex	at 5 years (2015~2020)

Goa	al	Goal Description	Voluntary Progress/Achievements/Majo	or Initiatives, including any transport master plans,	
No.			development of special transport co	development of special transport corridors, in Implementing the Bangkok 2020	
			Declaration over last 5 years (2010-2015	()	
	17	Adopt social equity as a planning and	Any action had been taken so far?	Challenges faced in implementation:	
		design criteria in the development	\Box Not yet	Mobility issues in an aging society affects not only to	
		and implementation of transport	\Box Some (design – piloting)	the lives of the basic needs of those who live there	
~		initiatives, leading to improved	Largely in Place	but also has become an important issue for giving	
Strategy		quality, safety and security for all and	\Box Fully Completed	them a meaningful life and creating a vibrant	
Stra		especially for women, universal	(Please Check the box)	Japanese society.	
"		accessibility of streets and public			
"Cross-Cutting		transport systems for persons with	Examples of pilot projects and/or policie	es developed or under development – include URLs	
Cut		disabilities and elderly, affordability	where relevant		
-SSC		of transport systems for low-income	• Promotion of making public transport fa	cilities, and buildings barrier-free.	
,Cré		groups, and up-gradation,	• Promotion of prioritized, integral barrier	r-free design in the region.	
3		modernization and integration of	Promotion of "psychologically barrier frequencies"	ree" society.	
		intermediate public transport	• Preparation of personnel development p	programs, promotion of spreading public awareness of	
			displaying baby carriage marks, etc		
			Important actions you will carry out in nex	at 5 years (2015~2020)	

Goa	al	Goal Description	Voluntary Progress/Achievements/Majo	or Initiatives, including any transport master plans,	
No.			development of special transport corridors, in Implementing the Bangkok		
			Declaration over last 5 years (2010-2015	5)	
	18	Encourage innovative financing	Any action had been taken so far?	Challenges faced in implementation:	
		mechanisms for sustainable transport	\Box Not yet		
Strategy		infrastructure and operations through	\Box Some (design – piloting)		
Strai		measures, such as parking levies, fuel	Largely in Place		
		pricing, time-of-day automated road	□ Fully Completed		
ing		user charging, and public-private	(Please Check the box)		
Cutt		partnerships such as land value			
"Cross-Cutting"		capture, including consideration of			
Ćrc		carbon markets, wherever feasible	Examples of pilot projects and/or policie	es developed or under development - include URLs	
5			where relevant		
			Important actions you will carry out in nex	at 5 years (2015~2020)	

Goal	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans,	
No.		development of special transport co	orridors, in Implementing the Bangkok 2020
		Declaration over last 5 years (2010-2015)	
"Cross-Cutting" Strategy	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	Declaration over last 5 years (2010-2015 Any action had been taken so far? Not yet Some (design – piloting) Largely in Place Fully Completed (Please Check the box)	 Challenges faced in implementation: About 20% CO2 emission inland is derived from the transport sector of which 80% are from automobiles. (1) Review the mobility and switch to modes of travel with less CO2 emissions such as public transportation, bicycles and walking to accelerate the public awareness of smart mobility to challenge preventing the global warming. (2) Implementation of environmentally-friendly driving methods is necessary (i.e. by restraining sudden acceleration, hard braking and idling, etc.) to reduce CO2 and air pollutants emissions. 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. (3) By the development of suburban housing in provincial cities in Japan, usage of private vehicles increased which consequently lead to hollowing out of the central city areas, abolishment of the public transport due to reduced number of passengers, and decline in mobility of elderlies and the youth.

Goal Goal Description Voluntary Progress/Achievements/Major Initiatives, including any transport		Voluntary Progress/Achievements/Major Initiatives, including any transport master plans,
No. development of s		development of special transport corridors, in Implementing the Bangkok 2020
		Declaration over last 5 years (2010-2015)
		the declining mobility of elderlies and the youths.

Goal	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans,
No.		development of special transport corridors, in Implementing the Bangkok 2020
		Declaration over last 5 years (2010-2015)
		Examples of pilot projects and/or policies developed or under development - include URLs
		where relevant
		(1) <u>Promotion of "Smart Move":</u>
		Promotion of 5 approaches for smart move: recommended use of public transportation;
		encourage using bicycles and to walk; promotion of car sharing, bike sharing and other means of
		transportation; innovation in long-distance travel and recommendation of Eco-Driving and
		driving environmentally-friendly cars. These are listed online and introduced at some events.
		<http: about="" funtoshare.env.go.jp="" index.html="" smartmove=""></http:>
		(2) Establishment and Promotion of "10 Eco-Driving Tips":
		Every November is designated as "Eco-Driving Promotion Month" and relevant organization
		and local governments hold lectures and other promotional events.
		<http: air="" car="" ecodrive="" index.html="" www.env.go.jp=""></http:>
		<http: action.html="" ecodriver="" funtoshare.env.go.jp=""></http:>
		<http: environment="" sogoseisaku="" sosei_environment_tk_000013.html="" www.mlit.go.jp=""></http:>
		(3) Human Development:
		In order to train human resources to lead the transportation environmental measures in th
		region, the training and seminars are implemented. In addition, superior measures of the region
		are awarded.
		<http: training2012.html="" www.estfukyu.jp=""></http:>
		<http: sohatsu2012.html="" www.estfukyu.jp=""></http:>
		<http: forum_kekka8.html="" www.estfukyu.jp=""></http:>
		(4) Database:
		Created database of previous EST measures and outcomes for information sharing for interested
		local communities.
		<http: environment="" est_database="" index.html="" sogoseisaku="" www.mlit.go.jp=""></http:>

Go	al	Goal Description	Voluntary Progress/Achievements/Majo	or Initiatives, including any transport master plans,	
No.			development of special transport corridors, in Implementing the Bangkok 2020		
			Declaration over last 5 years (2010-2015)		
			For regions that voluntarily work on rea	alizing EST, we constructed a database to show the	
			current information of the EST approach o	outcomes.	
			http://www.mlit.go.jp/sogoseisaku/enviro	onment/est_database/index.html>	
			Important actions you will carry out in next 5 years (2015~2020)		
gy	20	Develop dedicated and funded	Any action had been taken so far?	Challenges faced in implementation:	
Strategy		institutions that address sustainable	\Box Not yet	Further research is needed for reduction of GHGs as	
St		transport-land use policies and	\Box Some (design – piloting)	well as establishment of EST.	
ູ່ເລີ		implementation, including research	■ Largely in Place		
uttir		and development on	□ Fully Completed		
S-C		environmentally-sustainable	(Please Check the box)		
"Cross-Cutting"		transport, and promote good			
<u>,</u>					

Goal	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans,	
No.		development of special transport corridors, in Implementing the Bangkok 2020	
		Declaration over last 5 years (2010-2015)	
	governance through implementation	Examples of pilot projects and/or policies developed or under development - include URLs	
	of environmental impact assessments	where relevant	
	for major transport projects	The following research is conducted at National Institute for Land and Infrastructure	
		Management, MLIT:	
		(1) Research for the Reduction of CO2 Emissions in Road Transportation:	
		Research on reduction of CO2 emission when driving and CO2 emission process models of the	
		transport sector.	
		<http: dcg="" kadai="" kadai2.htm="" lab="" www.nilim.go.jp=""></http:>	
		(2) Research of Implementation and Promotion of Life-Cycle Assessment of 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).	
		<http: dcg="" lab="" lca="" top.htm="" www.nilim.go.jp=""></http:>	
		Important actions you will carry out in next 5 years (2015~2020)	
		(1) Developing the way of quantitative assessment for effect of CO2 reduction by monitoring the	
		CO2 emissions change and improvement of road traffic using measured data of each vehicle.	
		(2) Saving labour of the calculation method and formulating an Application Manual when	
		comparing to predict the CO2 emissions by construction project including collection of raw	
		material, manufacturing, transportation at the planning phase	