10th Regional EST Forum in Asia, 14-16 March 2017, Vientiane, Lao H
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Intergovernmental Tenth Regional Environmentally Sustainable Transport (EST) Forum in Asia
2030 Road Map for Sustainable Transport ~Aligning with Sustainable Transport Development Goals (SDGs)~

#### **Country Report**

(Draft)

**Bhutan** 

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

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

- a) Name of the Country: BHUTAN
- b) Name, Designation and Line Ministry/Agency Respondent: MINISTRY OF INFORMATION & COMMUNICATIONS
- c) List other Line Ministries/Agencies contributing to preparation of the Country Report: NATIONAL ENVIRONMENT COMMISSION, THIMPHU MUNICIPALITY
- d) Reporting period: 2015-2017

With the objective of demonstrating the renewed interest and commitment of Asian countries towards realizing a promising decade (2010-2020) of sustainable actions and measures for achieving safe, secure, affordable, efficient, and people and environment-friendly transport in rapidly urbanizing Asia, the participating countries of the Fifth Regional EST Forum in Asia discussed and agreed on a goodwill and voluntary declaration "Bangkok Declaration for 2020 – Sustainable Transport Goals for 2010-2020." At the Seventh Regional EST Forum held in Bali in 2013, the participating countries adopted the "Bali Declaration on Vision Three Zeros- Zero Congestion, Zero Pollution and Zero Accidents towards Next Generation Transport Systems in Asia" reinforcing the implementation of Bangkok 2020 Declaration (2010-2020) with emphasis to zero tolerance towards congestion, pollution and road accidents in the transport policy, planning and development. Bali Vision Three Zeros calls for a paradigm shift in thinking on the role of motorization and mobility in realizing sustainable development in Asia. Subsequently, EST member countries adopted the "Colombo Declaration" for the promotion of next generation low-carbon transport solutions in Asia.

Each member country of the Forum is kindly requested to prepare a consolidated country report (by 15 January 2017) reflecting how EST trends and developments have taken place in the country from Nepal EST Forum 2015 to Lao PDR EST Forum 2017 around the Goals of the Bangkok 2020 Declaration as an interim assessment following the below format. You are most welcome to add extra pages or sections to share any major on-going initiatives or future plans, including mega transport projects, transport master plans, special transport corridor development, expansion of railways and rail route developments, etc.

The objective of the Country Reporting is to share among international community the voluntary progress/achievements/initiatives include various challenges faced by countries in implementing each of the underlined goals of the Bangkok 2020 Declaration to realize the Bali Vision Three Zeros

- Zero Congestion, Zero Pollution, and Zero Accidents towards Next Generation Transport Systems in Asia. This would help development agencies, donors, development banks in assessing the sustainable transport needs and challenges to better devise their existing as well as future capacity building programs and operations in sustainable transport areas.

#### Timeline for submission by 15 January 2017.

by email to: est@uncrd.or.jp

Goal		<b>Goal Description</b>	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans,				
No.			development of special transport corridors, in Implementing the Bangkok 2020 Declaration				
			from Nepal EST Forum 2015 to Lao EST Forum 2017.				
I. S	trate	gies to <u>Avoid</u> unnecessary travel and r	reduce trip distances				
	1	Formally integrate land-use and	Any action had been taken so far?	Barriers/Challenges faced in implementation:			
		transport planning processes and	☐ Not yet	Inability to comply with the Structure Plans and			
		related institutional arrangements at	☐ Some progress (design – piloting)	Local Area Plans owing to funding constraints.			
		the local, regional, and national levels	☐ Largely in Place				
gy			☐ Fully Completed				
Strategy			(Please Check the box)				
1" S			Please add few specific examples of init	ciatives, pilot projects, major policies or programmes			
Avoid"			developed or under development (or) any major investment decisions. Please attach re include websites where relevant.				
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							
			Thimphu Structural Plan has identified	transport corridors and bus Terminals compatible to			
			the land-use.				
			Similarly, the Local Area Plans have p	provisions for transport infrastructure such as bus			
			terminals, footpaths, taxi parking and tru	ck parking facilities.			

Goal Goal Description Voluntary Progress/Achievements/Major Initiatives, including an		iatives, including any transport master plans,		
No.		development of special transport corridors, in Implementing the Bangkok 2020 Declaration		
		from Nepal EST Forum 2015 to Lao EST Forum 2017.		
		Examples of important actions that you plan to c	arry 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?		
"Avoid" Strategy	Achieve mixed-use development and medium-to-high densities along key corridors within cities through appropriate land - use policies and provide people - oriented local access, and actively promote transit-oriented development (TOD) when introducing new public transport infrastructure	□ Not yet □ Some progress (design – piloting) □ Largely in Place □ Fully Completed (Please Check the box) Please add few specific examples of initiative developed or under development (or) any major include websites where relevant.	Barriers/Challenges faced in implementation:  s, pilot projects, major policies or programmes or investment decisions. Please attach reports or 02-2027, the land use along Express Way have arry out in next year (2017~2018)	

Go	al	Goal Description	Voluntary Progress/Achievements/Majo	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans,		
No.			development of special transport corrid	development of special transport corridors, in Implementing the Bangkok 2020 Declaration		
			from Nepal EST Forum 2015 to Lao EST Forum 2017.			
			What importance does this particular EST Goal attach in your country's on-going efforts in			
			achieving the Sustainable Development (	achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable		
			Development?			
	3	Institute policies, programmes, and	Any action had been taken so far?	Barriers/Challenges faced in implementation:		
tegy		projects supporting Information and	☐ Not yet	Low ICT usage due to high cost of Internet		
Strategy		<b>Communications</b> Technologies	☐ Some progress (design – piloting)	connectivity and high cost of establishing		
[d" 5		(ICT), such as internet access,	☐ Largely in Place	teleconferencing facility.		
"Avoid"		teleconferencing, and telecommuting,	☐ Fully Completed			
,,		as a means to reduce unneeded travel	(Please Check the box)			

Goal	<b>Goal Description</b>	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans,
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		from Nepal EST Forum 2015 to Lao EST Forum 2017.
		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.
		• Teleconferencing facilities are established at a number of local government offices.
		• Better access to cellular mobile phone and Internet (about 87% and 61% penetration rate
		respectively as of Dec 2015) have helped in reducing the need to travel.
		• A number of G2C services have been launched for people at the grass-root level to available
		government services. The services are made available from the Community Centers
		established in each of the 201 out of 205 Administrative Blocks. Also available from the
		Community Centers are the off-line IT services such as photocopying, facsimile service,
		scanning of documents etc.
		• Launching of mobile apps have similarly helped in availing online services without visiting
		government offices.
		• The list of G2C services currently available can be accessed at www.citizenservices.gov.bt.
		Examples of important actions that you plan to carry out in next year (2017~2018)
		• The above initiatives will be further expanded further to include more services.
		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?
		• Very high importance as it is also one of the key result areas in all government agencies.
		• This initiative has also helped the rural population in connecting people within the country
		as well as outside.

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		
			from Nepal EST Forum 2015 to Lao EST Forum 2017.		
II. S	Strate	egies to <u>Shift</u> towards more sustainable	e modes		
"Shift" Strategy	4		Any action had been taken so far?  Not yet Some progress (design – piloting) Largely in Place Fully Completed (Please Check the box)  Please add few specific examples of initideveloped or under development (or) any include websites where relevant.  No such thing as the Transport Masses	<ul> <li>Barriers/Challenges faced in implementation:</li> <li>Funding is a major constraint to develop these urban infrastructure. As a result, while some basic plans exits, the facilities are generally absent in most urban settlements.</li> <li>Difficult geographical terrain make the use of bicycles impractical and difficult.</li> <li>tiatives, pilot projects, major policies or programmes y major investment decisions. Please attach reports or ter Plans for Thimphu but some activities targeted at ess at parks, cycle tracks along few designated primary</li> </ul>	
			<ul><li>roads and mountain trails have been in</li><li>More user-friendly pedestrian crossi</li></ul>	mplemented ings have been placed with strict monitoring on the s, resulting in reduced hit and run cases.	

Goa	al	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans,		
No.			development of special transport corridors, in Implementing the Bangkok 2020 Declaration		
from Nepal EST Foru		from Nepal EST Forum 2015 to Lao ES	ST Forum 2017.		
What importan			What importance does this particular E	ST Goal attach in your country's on-going efforts in	
			achieving the Sustainable Development	Goals (SDGs) under the 2030 Agenda for Sustainable	
			Development?		
			• To a significant extent. In support of this initiative, June 5 every year (coincidi		
			Environment Day) is declared as pedestrian day by restricting the movement of vehicles in		
			core city centers.		
	5	Improve <b>public transport</b> services	Any action had been taken so far?	Barriers/Challenges faced in implementation:	
gy		including high quality and affordable	☐ Not yet	• Lack of public awareness on the benefit of using	
Strategy		services on dedicated infrastructure	☐ Some progress (design – piloting)	public transport	
"St		along major arterial corridors in the	☐ Largely in Place	Inadequate number of buses and frequency of services	
"Shift"		city and connect with feeder services	☐ Fully Completed	especially during peak hours,	
S,		into residential communities	(Please Check the box)	Low capacity of manage the bus fleet	
				• Funding constraint	

Goal Goal Description Voluntary Progress/Achievements/Ma		Voluntary Progress/Achievements/Major Initiatives, including any transport master plans,
No.		development of special transport corridors, in Implementing the Bangkok 2020 Declaration
from Nepal		from Nepal EST Forum 2015 to Lao EST Forum 2017.
		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.  • Identified sites for bus stops and inter-city bus terminals  • Comprehensive study undertaken to launch mass transit option with the study recommending BRT system and a proposal submitted for GCF assistance  • Eighteen new buses have been procured through government funding to enhance urban transport in Thimphu in December 2016 and introduction of e-ticketing system
		<ul> <li>Feasibility study for Intelligent Transport System have been undertaken in the capital city of Thimphu.</li> <li>Three private bus operators engaged in urban transport in Thimphu in addition to the State Owned Enterprise.</li> <li>Pre-feasibility study undertaken for Light Transit Option through assistance of UNDESA/UNCRD</li> </ul>
		<ul> <li>Examples of important actions that you plan to carry out in next year (2017~2018)</li> <li>Prepare a detailed project report for Light Rail Transit system for Thimphu and extending to serve the airport commuters in Paro subject to availability of fund</li> <li>Implement BRT system including ITS for Thimphu under GCF assistance subject to GCF approving the proposal</li> <li>Works towards improving efficiency of urban transport services through various softer intervention to achieve higher ridership.</li> </ul>

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			
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			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?			
			• Extremely important to address enviro	• Extremely important to address environment issues and urban congestion in Thimphu.		
	6	Reduce the urban transport mode	Any action had been taken so far?	Barriers/Challenges faced in implementation:		
		share of private motorized vehicles	☐ Not yet	• High usage of personal vehicles due to		
		through Transportation Demand	☐ Some progress (design – piloting)	inadequate and unreliable public transport.		
		Management (TDM) measures,	☐ Largely in Place	Congestion charges not yet implemented except		
		including pricing measures that	☐ Fully Completed	parking fees in a few larger urban centers.		
		integrate congestion, safety, and	(Please Check the box)			
Strategy		pollution costs, aimed at gradually	Please add few specific examples of ini	tiatives, pilot projects, major policies or programmes		
Stra		reducing price distortions that directly	-	y major investment decisions. Please attach reports or		
ft";		or indirectly encourage driving,	include websites where relevant.			
"Shift"		motorization, and sprawl	Feasibility to remove on-street parking	g from Central Business District area (Norzin Lam)		
			Improve pedestrian accessibility in ma			
			Revision of tax on vehicle imports			
			Enhancement of public transport, alth	ough still far from adequate		
			Examples of important actions that you plant			
			<ul> <li>Study feasibility of introducing conges</li> </ul>			
			Review taxation on vehicle import	0		

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		
			from Nepal EST Forum 2015 to Lao EST Forum 2017.		
			What importance does this particular EST Goal attach in your country's on-going efforts in		
			achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable		
			Development?		
			• To some extent.	extent.	
	7	Achieve significant shifts to more	Any action had been taken so far?	Barriers/Challenges faced in implementation:	
		sustainable modes of inter-city	☐ Not yet	High speed railway or train option is feasible but	
		passenger and goods transport,	☐ Some progress (design – piloting)	very expensive. Similarly, inland water transport	
		including priority for high-quality	☐ Largely in Place	is not generally seen as feasible due to rapidly	
		long distance bus, inland water	☐ Fully Completed	flowing rivers.	
gy		transport, high-speed rail over car and	(Please Check the box)	Small and fragmented trucking industry.	
Strategy		air passenger travel, and priority for			
St		train and barge freight over truck and	Please add few specific examples of ini	itiatives, pilot projects, major policies or programmes	
"Shift"		air freight by building supporting	developed or under development (or) an	y major investment decisions. Please attach reports or	
S,		infrastructure such as dry inland ports	include websites where relevant.		
			Long distance high quality buses open	rate between cities and the private sector is welcome to	
			continue efforts at improving the servi	ces.	
			Pre-feasibility study undertaken j	for Light Transit Option through assistance of	
			UNDESA/UNCRD		
			Design and tendering of Dry Port		

Goa	-	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans,			
No.			development of special transport corridors, in Implementing the Bangkok 2020 Declaration from Nepal EST Forum 2015 to Lao EST Forum 2017.			
Examples of important actions that you  Implement the construction of Dry  Prepare a detailed project report f serve the airport commuters in Par  What importance does this particular		an to carry out in next year (2017~2018)  t at the largest bordering town of Phuntsholing  Light Rail Transit system for Thimphu and extending to				
III.	Strat	tegies to <u>Improve</u> transport practices a	and technologies			
"Improve" Strategy	8	Diversify towards more sustainable transport fuels and technologies, including greater market penetration of options such as vehicles operating on electricity generated from renewable sources, hybrid technology, and natural gas	☐ Not yet ☐ Some progress (design – piloting) ☐ Largely in Place ☐ Fully Completed (Please Check the box)  Please add few specific examples of ini	Barriers/Challenges faced in implementation:  • Low uptake of electric vehicles due to high upfront cost and non-availability of charging stations.  tiatives, pilot projects, major policies or programmes y major investment decisions. Please attach reports or		
include websites			<ul><li>include websites where relevant.</li><li>Exemption of tax on import of electric</li></ul>	vehicles and other options are being explored.		

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			from Nepal EST Forum 2015 to Lao EST Forum 2017.			
			Examples of important actions that you pla	an to carry out in next year (2017~2018)		
			Possible piloting of electric buses			
			• Possible replacement of government vehicles and taxis by electric vehicles in a phased			
			manner, subject to funding availability.			
			Setting up fast charging stations in a phased manner, subject to fund availability.			
			What importance does this particular ES	ST Goal attach in your country's on-going efforts in		
			achieving the Sustainable Development (	chieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable		
			Development?			
			• To some extent since dependence or reducing fossil usage cannot be eliminated altogether.			
			Natural is not a good possibility since it has to be sourced from other countries and that the			
			cost of laying infrastructure would be huge.			
	9	Set progressive, appropriate, and	Any action had been taken so far?	Barriers/Challenges faced in implementation:		
		affordable <b>standards</b> for fuel quality,	☐ Not yet	No major challenge since the standards for fuel		
gy		fuel efficiency, and tailpipe emissions	☐ Some progress (design – piloting)	quality and efficiency are enforced regularly at		
rate		for all vehicle types, including new	☐ Largely in Place	the distribution outlets.		
\\\.'.\\\S\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		and in-use vehicles	☐ Fully Completed			
"Improve" Strategy			(Please Check the box)			
l du			Please add few specific examples of init	tiatives, pilot projects, major policies or programmes		
Į.,			developed or under development (or) any	major investment decisions. Please attach reports or		
			include websites where relevant.			
			Emission standards are reviewed and to	up-graded periodically, and enforced.		

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			Examples of important actions that you pla	an to carry out in next year (2017~2018)	
			Not much new intervention foreseen ex	scept for possible revision of emission standard.	
			What importance does this particular ES	ST Goal attach in your country's on-going efforts in	
			achieving the Sustainable Development C	Goals (SDGs) under the 2030 Agenda for Sustainable	
			Development?		
			• Important from reducing environments	al pollution from fuel usage.	
	10	Establish effective vehicle testing and	Any action had been taken so far?	Barriers/Challenges faced in implementation:	
		compliance regimes, including formal	□ Not yet	Absence of automated testing system is the	
		vehicle registration systems and	☐ Some progress (design – piloting)	biggest challenge as manual testing for	
		appropriate periodic vehicle	☐ Largely in Place	roadworthiness is flawed with numerous	
gs		inspection and maintenance (I/M)	☐ Fully Completed	shortcomings.	
"Improve" Strategy		requirements, with particular	(Please Check the box)	Phasing out older vehicles is difficult	
". St		emphasis on commercial vehicles, to			
ove-		enforce progressive emission and	Please add few specific examples of init	tiatives, pilot projects, major policies or programmes	
ıduı		safety standards, resulting in older	developed or under development (or) any	y major investment decisions. Please attach reports or	
Ι,,		polluting commercial vehicles being	include websites where relevant.		
		gradually phased-out from the vehicle	• Commercial vehicles such as passenge	er buses, taxis and trucks must undergo roadworthiness	
		fleet, as well as testing and	test every six months while that of non-	-commercial once every year.	
		compliance regimes for vessels	• The on-going Transport Policy is expe	ected to address the issue of phasing out older vehicles,	
			mainly commercial vehicles.		

Goa	al	<b>Goal Description</b>	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans,		
No.			$development\ of\ special\ transport\ corridors,\ in\ Implementing\ the\ Bangkok\ 2020\ Declaration$		
			from Nepal EST Forum 2015 to Lao EST Forum 2017.		
			Examples of important actions that you pla	an to carry out in next year (2017~2018)	
			Establishment of automated testing certains	nters depending on fund availability.	
			What importance does this particular ES	ST Goal attach in your country's on-going efforts in	
			achieving the Sustainable Development	Goals (SDGs) under the 2030 Agenda for Sustainable	
			Development?		
			Very important from environment as w	vell as road safety point of view.	
	11	Adopt Intelligent Transportation	Any action had been taken so far?	Barriers/Challenges faced in implementation:	
		Systems (ITS), such as electronic fare	□ Not yet	Lack of expertise and fund	
		and road user charging systems,	☐ Some progress (design – piloting)		
_		transport control centres, and	☐ Largely in Place		
tegy		real-time user information, when	☐ Fully Completed		
Strategy		applicable	(Please Check the box)		
ve,			Please add few specific examples of ini	tiatives, pilot projects, major policies or programmes	
"Improve"			developed or under development (or) any	y major investment decisions. Please attach reports or	
, 			include websites where relevant.		
			Feasibility study for Intelligent Transport System have been undertaken in the capital city of		
			Thimphu.		
			Examples of important actions that you plant	an to carry out in next year (2017~2018)	
			• Implement ITS in Thimphu in a phased	l manner in the capital city, subject to fund availability.	

Goa	al	Goal Description	Voluntary Progress/Achievements/Majo	or Initiatives, including any transport master plans,		
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			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?			
			To some extent			
	12	Achieve improved freight transport	Any action had been taken so far?	Barriers/Challenges faced in implementation:		
		efficiency, including road, rail, air,	□ <mark>Not yet</mark>	• Small, fragmented and disorganized freight		
		and water, through policies,	$\square$ Some progress (design – piloting)	transport		
		programmes, and projects that	☐ Largely in Place			
		modernize the freight vehicle	☐ Fully Completed			
gy		technology, implement fleet control	(Please Check the box)			
rate		and management systems, and	Please add few specific examples of init	tiatives, pilot projects, major policies or programmes		
" St		support better logistics and supply	developed or under development (or) any	major investment decisions. Please attach reports or		
ove		chain management	include websites where relevant.	include websites where relevant.		
"Improve" Strategy			Not much intervention to modernize from	eight transport		
Ι,,			Examples of important actions that you pla	an to carry out in next year (2017~2018)		
			• No plans as of now			
			What importance does this particular ES	ST Goal attach in your country's on-going efforts in		
			achieving the Sustainable Development C	Goals (SDGs) under the 2030 Agenda for Sustainable		
			Development?			
			• No sure			
IV.	Cross	- <u>cutting</u> strategies				

Goal		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		
			from Nepal EST Forum 2015 to Lao ES	ST Forum 2017.	
"Cross-Cutting" Strategy	13	Adopt a zero-fatality policy with respect to road, rail, and waterway safety and implement appropriate speed control, traffic calming strategies, strict driver licensing, motor vehicle registration, insurance requirements, and better post-accident care oriented to significant reductions in accidents and injuries	<ul> <li>□ Not yet</li> <li>□ Some progress (design – piloting)</li> <li>□ Largely in Place</li> <li>□ Fully Completed</li> <li>(Please Check the box</li> </ul> Please add few specific examples of initial developed or under development (or) any include websites where relevant. <ul> <li>• Maximum speed limit prescribed in the</li> <li>• Minimum of third party insurance comprehensive insurance for passenge</li> <li>• Enforcement of zero tolerance for traff</li> <li>Examples of important actions that you pl</li> </ul>	e is mandatory for non-commercial vehicles and er buses and taxis fic violation ever Friday throughout the country an to carry out in next year (2017~2018) ng providing appropriate equipment to the enforcement g depending on fund availability	

Goal	Goal Description	Voluntary Progress/Achievements/Majo	or Initiatives, including any transport master plans,	
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		from Nepal EST Forum 2015 to Lao EST Forum 2017.		
	What importance does this particular EST Goal attach in your conachieving the Sustainable Development Goals (SDGs) under the 20 Development?  • Addressing road safety is a high priority.		Goals (SDGs) under the 2030 Agenda for Sustainable	
"Cross-Cutting" Strategy	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	developed or under development (or) any include websites where relevant.  • None  Examples of important actions that you plate of the None  What importance does this particular Estachieving the Sustainable Development Of Development?	Barriers/Challenges faced in implementation:  • Absence of expertise.  tiatives, pilot projects, major policies or programmes y major investment decisions. Please attach reports or an to carry out in next year (2017~2018)  ST Goal attach in your country's on-going efforts in Goals (SDGs) under the 2030 Agenda for Sustainable rical data has it difficult to recommend or implement	

Go	al	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans,		
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			from Nepal EST Forum 2015 to Lao ES	T Forum 2017.	
"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 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	Any action had been taken so far?  Not yet Some progress (design – piloting) Largely in Place Fully Completed (Please Check the box)  Please add few specific examples of initial developed or under development (or) any include websites where relevant.  Ambient air quality and (http://www.nec.gov.bt/nec1/wp-content). This standard will be reviewed by the Vehicular emission standards in place. Ambient air quality monitoring stat (Pasakha, Thimphu, Bajo, Kanglun currently being established in Gedu, Desamples of important actions that you place. Prepare a road map for reducing vehicle. Review and revised the existing vehicle. Improve vehicle emission testing system.	Barriers/Challenges faced in implementation  • High investment cost required to establish automated air quality monitoring station that has capability to monitor all the pollutants  • Limited technical experts to repair AQM equipment.  tiatives, pilot projects, major policies or programmes y major investment decisions. Please attach reports or noise standard established in 2010 nt/uploads/2015/02/Environmental-Standards-2010.pdf e end of 2018  This standards will be reviewed by the end of 2018 ion established in strategic location in the country g). Additional air quality monitoring stations are newathang and Chelela.  an to carry out in next year (2017~2018) cle emission in the country e emission standards	

Goa	al	Goal Description	Voluntary Progress/Achievements/Majo	or Initiatives, including any transport master plans,		
No.			development of special transport corrid	ors, in Implementing the Bangkok 2020 Declaration		
			from Nepal EST Forum 2015 to Lao ES	T Forum 2017.		
			What importance does this particular ES	ST Goal attach in your country's on-going efforts in		
			achieving the Sustainable Development (	Goals (SDGs) under the 2030 Agenda for Sustainable		
			Development?	Development?		
	16	Implement sustainable low-carbon	Any action had been taken so far?	Barriers/Challenges faced in implementation:		
æ;		transport initiatives to mitigate the	☐ Not yet	Lack of coordination among relevant agencies		
"Cross-Cutting"		causes of global climate change and	☐ Some progress (design – piloting)	Lack of funding support for implementing priority		
Cr		to fortify national energy security,	☐ Largely in Place	initiatives		
ross		and to report the inventory of all	☐ Fully Completed			
);		greenhouse gases emitted from the	(Please Check the box)			

Goal Goal Description Voluntary Progress/Achievements/Major Initiatives, including any transport in		Voluntary Progress/Achievements/Major Initiatives, including any transport master plans,
No.		development of special transport corridors, in Implementing the Bangkok 2020 Declaration
from Nepal EST Forum 2015 to Lao EST Forum 2017.		from Nepal EST Forum 2015 to Lao EST Forum 2017.
	transport sector in the National Communication to the UNFCCC	<ul> <li>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.</li> <li>The second national communication to the UNFCCC has highlighted transport sector emission accounts for 45% of the energy related emission</li> <li>As per Bhutan's Intended Nationally Determined Contribution (INDC) to the UNFCCC, emission from energy sector has increased by 191.6% from 2000-2013</li> <li>Under the electric vehicle initiative, Royal Government of Bhutan has provided fiscal incentives until December XXXX and free charging stations to promote uptake of EV in the country</li> <li>Developed a Nationally Appropriate Mitigation Actions (NAMA) proposal for enhancing urban transport system in Bhutan. The NAMA focuses on promoting clean urban transport system by enhancing city bus services in Thimphu and piloting electric buses. One activity is to pilot electric shuttle buses between Paro international airport and Thimphu city</li> <li>Introduction of intelligent transport system measures in the city bus services</li> <li>Low emission strategy for transport sector has been developed</li> <li>National Transport Policy is being revised to incorporate climate change and sustainability issues</li> <li>Examples of important actions that you plan to carry out in next year (2017~2018)</li> <li>Implement some of the important and urgent recommendations made in the revised Transport Policy.</li> </ul>

Goal	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		
		from Nepal EST Forum 2015 to Lao EST Forum 2017.		
		What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?		
"Cross-Cutting" Strategy	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	<ul> <li>□ Not yet</li> <li>□ Some progress (design – piloting)</li> <li>□ Largely in Place</li> <li>□ Fully Completed</li> <li>(Please Check the box)</li> <li>Please add few specific examples of initive developed or under development (or) any include websites where relevant.</li> <li>• Bus operators are granted interest sufficients for transport operators are also exempt free people with special needs</li> </ul>	l in public transport buses operating in urban areas for bunt for using transport services. However, not many	

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		
			from Nepal EST Forum 2015 to Lao EST Forum 2017.		
			What importance does this particular E	ST Goal attach in your country's on-going efforts in	
			achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable		
			Development?		
			• Extremely important but difficult for i	implement despite some support from the government as	
			explained above.		
	18	Encourage innovative financing	Any action had been taken so far?	Barriers/Challenges faced in implementation:	
		mechanisms for sustainable transport	□ Not yet	• It is generally the traditional budget-based	
		infrastructure and operations through	☐ Some progress (design – piloting)	government and donor financing	
Se Se		measures, such as parking levies, fuel	☐ Largely in Place	PPP model appears not feasible for investment in	
Strategy		pricing, time-of-day automated road	☐ Fully Completed	infrastructure and toll system due to economy of	
St		user charging, and public-private	(Please Check the box)	scale and low return on private investment.	
ω, i		partnerships such as land value	Please add few specific examples of in	itiatives, pilot projects, major policies or programmes	
"Cross-Cutting"		capture, including consideration of	developed or under development (or) an	y major investment decisions. Please attach reports or	
S-C		carbon markets, wherever feasible	include websites where relevant.		
ros			• Inter-District passenger transport ser	vices are fully privatized	
J.			Few larger towns have introduced part	rking fees system	
			• Tax is levied on fuel sale.		
			Examples of important actions that you pl	lan to carry out in next year (2017~2018)	
			• None		

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			
			from Nepal EST Forum 2015 to Lao EST Forum 2017.			
			What importance does this particular EST Goal attach in your country's on-going efforts in			
			achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable			
			Development?			
			• Important to reduce dependency on development partners.			
	19	Encourage widespread distribution of	Any action had been taken so far?	Barriers/Challenges faced in implementation:		
		information and awareness on	□ Not yet	• Transport responsibility is spread over many		
		sustainable transport to all levels of	☐ Some progress (design – piloting)	agencies in the government and coordination is a		
Strategy		government and to the public through	☐ Largely in Place	challenge.		
Strat		outreach, promotional campaigns,	☐ Fully Completed			
		timely reporting of monitored	(Please Check the box)			
"Cross-Cutting"		indicators, and participatory	Please add few specific examples of ini	tiatives, pilot projects, major policies or programmes		
Cutt		processes	developed or under development (or) an	y major investment decisions. Please attach reports or		
)-SSC			include websites where relevant.			
Çrc			• The on-going National Transport	Policy is an effort to integrate and address all		
,			transportation sub-sector by making it	inclusive and sustainable.		
			Examples of important actions that you pl	an to carry out in next year (2017~2018)		
			• Implement some of the relevant recom	mendations of the National Transport Policy.		

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		
			from Nepal EST Forum 2015 to Lao EST Forum 2017.		
			What importance does this particular ES	ST Goal attach in your country's on-going efforts in	
			achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable		
			Development?		
			• Important to some extent to avoid dup	plication of work and build better synergy in planning,	
			execution and enforcement.		
	20	Develop dedicated and funded	Any action had been taken so far?	Barriers/Challenges faced in implementation:	
		institutions that address sustainable	□ Not yet	• Transport responsibilities spread over many	
		transport-land use policies and	☐ Some progress (design – piloting)	agencies in the government	
>		implementation, including research	☐ Largely in Place		
Strategy		and development on	☐ Fully Completed		
Stra		environmentally-sustainable	(Please Check the box)		
, 50		transport, and promote good	Please add few specific examples of ini-	tiatives, pilot projects, major policies or programmes	
tting		governance through implementation	developed or under development (or) any	y major investment decisions. Please attach reports or	
-Cu		of environmental impact assessments	include websites where relevant		
"Cross-Cutting"		for major transport projects	Examples of important actions that you pla	an to carry out in next year (2017~2018)	
Ç					
			•	ST Goal attach in your country's on-going efforts in	
				Goals (SDGs) under the 2030 Agenda for Sustainable	
			Development?		
			• Not sure		

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

"Cross-Cutting" Strategy		Take policy initiatives to improve rural access leading, leading to improved quality, safety and security for all and especially for women, disadvantaged groups persons with disabilities and elderly, low-income groups, access to farms, agriculture centers, education and health	<ul> <li>developed or under development (or) any</li> <li>Please attach reports or include websites who</li> <li>As a policy, efforts are being made to considered.</li> <li>All motorable road with minimum safe with private sector intervention.</li> <li>Examples of important actions that you pland</li> <li>The construction of a number of access</li> </ul>	onnect all major settlements by road network.  ty standards are provided public transport services,  to carry out in next year (2017~2018)  roads are on-going and the same will continue until
			• The construction of a number of access roads are on-going and the same will continue until all the major rural settlements are connected by roads.	
			Importance of improving rural access in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?	
			• Extremely important due to it linkage with number of SDGs.	