

**Seventh Regional EST Forum in Asia**

“Next Generation Transport Systems We Want for 21st Century ~ Looking Beyond Rio+20”

Bali, Indonesia, 23-25 April, 2013

# **Country Report**

**(Draft)**

**<PR China>**

---

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

# Country Report

**Name of the Country: People's Republic of China**

**Name, Designation and Organization Respondent: Dr. Dongmei Guo, Senior Research Fellow, China-ASEAN Environmental Cooperation Centre, Ministry of Environment Protection**

**Ms. Song Su, Transport Specialist, China Academy of Transportation Sciences, Ministry of Transport**

**Other Organizations contributing to Country Report:**

Voluntary Progress/Achievements/Initiatives towards Goals of the Bangkok 2020 Declaration

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 environmentally friendly transport in rapidly urbanizing Asia, the participating countries of the Forum discussed and agreed on a goodwill and voluntary declaration - “Bangkok Declaration for 2020 – Sustainable Transport Goals for 2010-2020”. The objective of the Country Reporting is to share among international community the progress and achievements made, including various challenges faced, by countries in implementing each of the underlined goals. This would also help development agencies, donors, and MDBs 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.

Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Bangkok 2020 Declaration		
<b>I. Strategies to <u>Avoid</u> unnecessary travel and reduce trip distances</b>				
“Avoid” Strategy	1	Formally integrate <b>land-use and transport planning</b> 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 checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: Weak cooperation and coordination among different governmental departments.
			Examples of pilot projects and/or policies developed or under development – include URLs where relevant Comprehensive transport development plan for the 12FYP <a href="http://www.sztb.gov.cn/WebEditor/uploadfile/20101110084429522.pdf">http://www.sztb.gov.cn/WebEditor/uploadfile/20101110084429522.pdf</a>	
			Important Actions you will take in 2013	

Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Bangkok 2020 Declaration	
“Avoid” Strategy	2 Achieve <b>mixed-use development</b> and medium-to-high densities along key corridors within cities through appropriate land - use policies and provide people - oriented local access, and actively promote transit-oriented development (TOD) when introducing new public transport infrastructure	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: Weak cooperation and coordination among different governmental departments.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant  Public Transport Municipality pilot program, setting up more than 20 evaluation indicators to assess city’s public transport performance.	
		Important Actions you will take in 2013	

Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Bangkok 2020 Declaration	
“Avoid” Strategy	3 Institute policies, programmes, and projects supporting <b>Information and Communications Technologies</b> (ICT), such as internet access, teleconferencing, and telecommuting, as a means to reduce unneeded travel	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: Weak cooperation and coordination among different governmental departments.  Robust working timetable and working culture in China make it difficult to apply the telecommuting.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant	
		Important Actions you will take in 2013	
<b>II. Strategies to <u>Shift</u> towards more sustainable modes</b>			
“Shift” Strategy	4 Require <b>Non-Motorized Transport</b> (NMT) components in transport master plans in all major cities and prioritize transport infrastructure investments to NMT, including wide-scale improvements to	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation:  Cooperation and coordination among different government departments.

Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Bangkok 2020 Declaration	
	pedestrian and bicycle facilities, development of facilities for intermodal connectivity, and adoption of complete street design standards, wherever feasible	Examples of pilot projects and/or policies developed or under development – include URLs where relevant	
		Important Actions you will take in 2013	
“Shift” Strategy	5 Improve <b>public transport</b> services including high quality and affordable services on dedicated infrastructure along major arterial corridors in the city and connect with feeder services into residential communities	Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some (design – piloting) <input checked="" type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation:
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant  Public Transport Municipality pilot program, setting up more than 20 evaluation indicators to assess city’s public transport performance.	
		Important Actions you will take in 2013	

Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Bangkok 2020 Declaration	
“Shift” Strategy	6 Reduce the urban transport mode share of private motorized vehicles through <b>Transportation Demand Management</b> (TDM) measures, including pricing measures that integrate congestion, safety, and pollution costs, aimed at gradually reducing price distortions that directly or indirectly encourage driving, motorization, and sprawl	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation:  Public acceptance Data and calculation
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant  Beijing (28, including car plate lottery – cap-and-lottery); Shanghai (parking pricing, and vehicle plate auction system, - cap-and-trade)	
		Important Actions you will take in 2013	

Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Bangkok 2020 Declaration	
“Shift” Strategy	7 Achieve significant shifts to more sustainable modes of <b>inter-city passenger and goods transport</b> , including priority for high-quality long distance bus, inland water transport, high-speed rail over car and air passenger travel, and priority for train and barge freight over truck and air freight by building supporting infrastructure such as dry inland ports	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: Cooperation and coordination among different governments; Standardization among different modes;
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant  Institutional reform; connection between seaport and railway; planning of the comprehensive transport terminals, etc.	
		Important Actions you will take in 2013	
<b>III. Strategies to <u>Improve</u> transport practices and technologies</b>			



Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Bangkok 2020 Declaration	
“Improve” Strategy	8 Diversify towards more sustainable <b>transport fuels and technologies</b> , including greater market penetration of options such as vehicles operating on electricity generated from renewable sources, hybrid technology, and natural gas	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: Local protectionism; Technology is not mature enough; Safety issue in new energy vehicles; Recycle of the batteries is uncertain; High purchase cost for new energy vehicles and weak financing model Well-to-wheel emissions are still high Rebound effect on urban congestion Low consumer acceptance
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant “Ten cities and thousand vehicles program” to promote new energy vehicles (e-vehicles, hybrid, fuel-cell) in China (since 2009). For public buses, taxis, and then move to private cars.	
		Important Actions you will take in 2013	

Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Bangkok 2020 Declaration	
“Improve” Strategy	9 Set progressive, appropriate, and affordable <b>standards</b> for fuel quality, fuel efficiency, and tailpipe emissions for all vehicle types, including new and in-use vehicles	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: Retrofit on in-use vehicles are difficult.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant	
		Important Actions you will take in 2013	

Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Bangkok 2020 Declaration	
‘Improve’ Strategy	10 Establish effective vehicle testing and compliance regimes, including formal vehicle registration systems and appropriate periodic vehicle <b>inspection and maintenance</b> (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 compliance regimes for vessels	Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some (design – piloting) <input checked="" type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation:
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant	
		Important Actions you will take in 2013	

Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Bangkok 2020 Declaration	
“Improve” Strategy	11 Adopt <b>Intelligent Transportation Systems</b> (ITS), such as electronic fare and road user charging systems, transport control centres, and real-time user information, when applicable	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: Weak cooperation and coordination among different governmental departments, especially in terms of information sharing.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant Shenzhen’s comprehensive ITS integrates the information platforms of geo information, traffic information, traffic and public transport information, government policies, etc. <a href="http://www.ahjtxx.com/ITSA/HYDT/73309.shtml">http://www.ahjtxx.com/ITSA/HYDT/73309.shtml</a>	
		Important Actions you will take in 2013	

Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Bangkok 2020 Declaration	
“Improve” Strategy	12 Achieve improved <b>freight transport</b> 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	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: Fragmented and unregulated freight transport market. Throat cutting competition (esp for trucking industry) makes companies unwilling to apply new technologies with high costs.

Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Bangkok 2020 Declaration
	support better logistics and supply chain management	<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <p>Drop and hook pilot program</p> <p>In order to respond the “<i>Notice on Promoting Drop-and-Hook Development</i>” (2009), which was co-issued by MOT, NDRC, MPS, GDC <sup>1</sup>, and CIRC <sup>2</sup>, MOT and NDRC co-issued the “<i>Implementation Plan on Drop-and-Hook Pilot Project</i>” on 9 November 2010. The purpose of the drop-and-hook pilot project is to enhance the transport operation efficiency, and therefore to reduce energy-use and emissions, by increasing the share of drop-and-hook modes within freight transport.</p> <p>These could cover, amongst others, (a) platforms for trailers to loading/unloading cargoes; (b) yards and roads for drop-and-hook operations; (c) loading facilities, standard trays and accessory facilities; (d) information system and technical facilities for “drop-and-hook” operation; (e) tractors and trailers.</p>
<p>Important Actions you will take in 2013</p>		
<p><b>IV. <u>Cross-cutting</u> strategies</b></p>		

<sup>1</sup> GAC = General Administration of Customs of the People’s Republic of China

<sup>2</sup> CIRC = China Insurance Regulatory Commission.

Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Bangkok 2020 Declaration		
“Cross-Cutting” Strategy	13	Adopt a zero-fatality policy with respect to road, rail, and waterway <b>safety</b> and implement appropriate speed control, traffic calming strategies, strict driver licensing, motor vehicle registration, insurance requirements, and better post-accident care oriented to significant reductions in accidents and injuries	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation:
			Examples of pilot projects and/or policies developed or under development – include URLs where relevant	
			Important Actions you will take in 2013	
“Cross-Cutting” Strategy	14	Promote monitoring of the <b>health</b> 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,	Any action had been taken so far? <input checked="" type="checkbox"/> Not yet <input type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation:

Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Bangkok 2020 Declaration	
	and devise mitigation strategies, especially aiding sensitive populations near high traffic concentrations	<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <p>Just doing the research on this.</p>	
		Important Actions you will take in 2013	
“Cross-Cutting”	15 Establish country-specific, progressive, health-based, cost-effective, and enforceable <b>air quality and noise</b> standards, also taking into account the WHO guidelines, and mandate monitoring and reporting in order to reduce the occurrence of days in which pollutant levels of particulate matter, nitrogen oxides, sulphur oxides, carbon monoxide, and ground-level ozone exceed the national standards or zones where noise levels exceed the national standards, especially with regard to environments near high traffic concentrations	<p>Any action had been taken so far?</p> <p><input checked="" type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some (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>Challenges faced in implementation:</p> <p>Cooperation and coordination between environmental authorities and transport authorities.</p>
		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <p>Emission standards.</p>	
		Important Actions you will take in 2013	



Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Bangkok 2020 Declaration	
“Cross-Cutting” Strategy	16 Implement sustainable low-carbon transport initiatives to mitigate the causes of <b>global climate change</b> and to fortify national <b>energy security</b> , and to report the inventory of all greenhouse gases emitted from the transport sector in the National Communication to the UNFCCC	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation:
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant  Under study.	
		Important Actions you will take in 2013	
“Cross-Cutting” Strategy	17 Adopt <b>social equity</b> 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	Any action had been taken so far? <input checked="" type="checkbox"/> Not yet <input type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation:

Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Bangkok 2020 Declaration	
	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	Examples of pilot projects and/or policies developed or under development – include URLs where relevant	
		Important Actions you will take in 2013	
“Cross-Cutting” Strategy	18 Encourage innovative <b>financing</b> mechanisms for sustainable transport infrastructure and operations through measures, such as parking levies, fuel pricing, time-of-day automated road user charging, and public-private partnerships such as land value capture, including consideration of carbon markets, wherever feasible	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation:
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant  Chinese government mainly uses subsidy, e.g. subsidy on new energy vehicles, subsidy on public transport, subsidy on clean technologies, etc.	
		Important Actions you will take in 2013	

Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Bangkok 2020 Declaration		
“Cross-Cutting” Strategy	19	Encourage widespread distribution of <b>information and awareness</b> on sustainable transport to all levels of government and to the public through outreach, promotional campaigns, timely reporting of monitored indicators, and participatory processes	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation:
	Examples of pilot projects and/or policies developed or under development – include URLs where relevant			
	Important Actions you will take in 2013			
“Cross-Cutting” Strategy	20	Develop dedicated and funded <b>institutions</b> that address sustainable transport-land use policies and implementation, including research and development on environmentally-sustainable transport, and promote good	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: Cooperation and coordination among governments

Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Bangkok 2020 Declaration
	<p><b>governance</b> through implementation of environmental impact assessments for major transport projects</p>	<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <hr/> <p>Important Actions you will take in 2013</p>