Bangkok Declaration for 2020

Sustainable Transport Goals for 2010-2020

We, the participants, who are representatives of Asian countries (Afghanistan, Bangladesh, Bhutan, Brunei Darussalam, Cambodia, People's Republic of China, Indonesia, India, Japan, Republic of Korea, Lao PDR, Malaysia, Maldives, Mongolia, Myanmar, Nepal, the Philippines, Pakistan, Singapore, Sri Lanka, Thailand, and Viet Nam), international organizations, bilateral and multilateral agencies, nongovernmental organizations (NGOs), research organizations, and expert sustainable transport professionals, having met at the Fifth Regional Environmentally Sustainable Transport (EST) Forum in Asia, held in Bangkok, Kingdom of Thailand, from 23 to 25 August 2010, to draft and adopt a declaration, the *Bangkok 2020 Declaration*, in order to demonstrate our renewed interest in, and commitment to, realizing a promising decade (2010-2020) of sustainable actions and measures for achieving safe, secure, quick, reliable, affordable, efficient and people-centric and environment friendly transport in rapidly urbanizing Asia,

Noting the identification of transport as a theme under Agenda 21 on sustainable development and the outcome of the high-level meeting of the 9th session of the Commission on Sustainable Development (CSD-9) in 2001 which reached important decisions on transport sector issues concluding that improving transport systems to promote sustainable development, including improving accessibility, can foster economic and social development, help integrate developing countries into the world economy, and contribute to the eradication of poverty,

Reaffirming and building upon the Aichi Statement agreed upon by the participants at the First Regional EST Forum, held in Nagoya, Aichi Prefecture, Japan, on 1-2 August 2005, and its integrated approach to promoting environmentally sustainable transport will result not only in the improvement of human health through the reduction of urban air pollution, but also the reduction of greenhouse gas (GHG) emissions, deaths and injuries from road accidents, harmful noise levels, and traffic congestion,

Reaffirming and building upon the *Seoul Statement*, agreed upon by the participants at the Fourth Regional EST Forum, held in Seoul, Republic of Korea, from 24 to 26 February 2009, that urged the need to address transport issues within the context of the broader environmental aims of Green Growth to encompass the transport-energy-carbon emission nexus, to develop strategies for low-carbon transport that include a shift to energy-efficient and low carbon modes to enhance energy security, and mitigate the effects of transport on climate as well as of climate change on transport services and other socioeconomic sectors,

Noting the findings of the 18th Session of the Commission on Sustainable Development (CSD-18) held in May 2010, that basic transport infrastructure and services are still lacking or inadequate in many developing countries (both in urban and rural areas), making it difficult for the poor, including women, youth, and children, to access basic services, including those related to health and education, and for workers to have access to jobs, and that in the case of rural areas lack of adequate rural transport infrastructure perpetuates poverty, poses constraints on the marketing of agricultural produce and other income-generating opportunities, and thus hampers efforts to achieve the internationally agreed Millennium Development Goals (MDGs),

Noting that transport-related carbon dioxide emissions are projected by international bodies to increase approximately 57 per cent worldwide in the period 2005-2030, whereby the largest part of this increase would come from the increase in private motorized vehicles in Asia,

Noting the UN General Assembly Resolution (64/255) of 2March 2010 on improving global road safety, proclaimed 2011-2020 as a decade of action for road safety, and **deeply concerned** that about half of all road traffic fatalities and injuries occur in the Asian and Pacific region, most of which are related to vulnerable road users such as pedestrians, children, and cyclists, due to streets that lack the necessary safety infrastructure such as exclusive pedestrian and bicycle lanes, safe street crossings, kerb ramps for the disabled, and lack of post-accident care,

Recognizing the specific mobility needs of low-income groups, as well as women, children, the elderly, and persons with disabilities which must be addressed to achieve socially-equitable communities and a better quality of life for all,

Acknowledging the importance of an EST strategy based upon the concept of Avoiding unnecessary motorised transport - Shifting to more sustainable transport modes and - Improving transport practices and technologies,

We, the participants of the Fifth Regional Environmentally Sustainable Transport (EST) Forum in Asia express our intent to voluntarily develop and realize integrated and sustainable transport policy options, programmes, and projects that will help realize the following EST goals and objectives by the year 2020 in the Asian region (EST 20):

I. Strategies to Avoid unnecessary travel and reduce trip distances

<u>Goal 1:</u> Formally integrate **land-use and transport planning** processes and related institutional arrangements at the local, regional, and national levels

<u>Goal 2:</u> 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

<u>Goal 3:</u> Institute policies, programmes, and projects supporting **Information and Communications Technologies** (ICT), such as internet access, teleconferencing, and telecommuting, as a means to reduce unneeded travel

II. Strategies to Shift towards more sustainable modes

<u>Goal 4:</u> Require **Non-Motorized Transport** (NMT) components in transport master plans in all major cities and prioritize transport infrastructure investments to NMT, including wide-scale improvements to pedestrian and bicycle facilities, development of facilities for intermodal connectivity, and adoption of complete street design standards, wherever feasible

<u>Goal 5:</u> Improve **public transport** services including high quality and affordable services on dedicated infrastructure along major arterial corridors in the city and connect with feeder services into residential communities

<u>Goal 6:</u> Reduce the urban transport mode share of private motorized vehicles through **Transportation Demand Management** (TDM) measures, including pricing measures that integrate congestion, safety, and pollution costs, aimed at gradually reducing price distortions that directly or indirectly encourage driving, motorization, and sprawl

<u>Goal 7:</u> Achieve significant shifts to more sustainable modes of **inter-city passenger and goods transport**, including priority for high-quality long distance bus, inland water transport, high-speed rail over car and air passenger travel, and priority for train and barge freight over truck and air freight by building supporting infrastructure such as dry inland ports

III. Strategies to Improve transport practices and technologies

<u>Goal 8:</u> 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

<u>Goal 9:</u> Set progressive, appropriate, and affordable **standards** for fuel quality, fuel efficiency, and tailpipe emissions for all vehicle types, including new and in-use vehicles

<u>Goal 10:</u> Establish effective vehicle testing and compliance regimes, including formal vehicle registration systems and appropriate periodic vehicle **inspection and maintenance** (I/M) requirements, with particular emphasis on commercial vehicles, to enforce progressive emission and safety standards, resulting in older polluting commercial vehicles being gradually phased-out from the vehicle fleet, as well as testing and compliance regimes for vessels

<u>Goal 11:</u> Adopt **Intelligent Transportation Systems** (ITS), such as electronic fare and road user charging systems, transport control centres, and real-time user information, when applicable

<u>Goal 12:</u> Achieve improved **freight transport** efficiency, including road, rail, air, and water, through policies, programmes, and projects that modernize the freight vehicle technology, implement fleet control and management systems, and support better logistics and supply chain management

IV. Cross-cutting strategies

<u>Goal 13:</u> 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

<u>Goal 14:</u> 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

<u>Goal 15:</u> 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

<u>Goal 16:</u> Implement sustainable low-carbon transport initiatives to mitigate the causes of **global climate change** and to fortify national **energy security**, and to report the inventory of all greenhouse gases emitted from the transport sector in the National Communication to the UNFCCC

<u>Goal 17:</u> 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

<u>Goal 18:</u> Encourage innovative **financing** mechanisms for sustainable transport infrastructure and operations through measures, such as parking levies, fuel pricing, time-of-day automated road user charging, and public-private partnerships such as land value capture, including consideration of carbon markets, wherever feasible

<u>Goal 19</u>: 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

<u>Goal 20:</u> Develop dedicated and funded **institutions** that address sustainable transport-land use policies and implementation, including research and development on environmentally-sustainable transport, and promote good **governance** through implementation of environmental impact assessments for major transport projects

Inviting countries to voluntarily report progress by utilizing the EST Forum -

Annex 1 Measuring Progress on the Bangkok Declaration for 2020

This annex outlines the type of performance indicators that countries may consider in achieving a successful EST strategy. The Bangkok Declaration for 2020 is a voluntary document, and thus countries may opt for developing a number of additional /alternative indicators and measures to monitor progress domestically.

The objective of such comprehensive list of indicators is to provide guidelines for objective measurement of the efficiency and effectiveness of the transport system to achieve the desired goals.

Strategy	Indicator
"Avoid" Strategies	Meta Indicator: Change in vehicle kilometres travel per person over
	time at the metropolitan and national levels
Integrated Land Use-	Number of cities in the country having formally developed
Transport Planning	integrated land use-transport plans
	Requirements for local compliance with regional integrated land use-transport plans
Mixed-Use Development	Reduction in average passenger trip length in the city
	Reduction in average freight trip distance regionally and nationally
	Number of units developed in purpose-built mixed-use projects
	Number of public transport projects achieving transit-oriented
	development (TOD) around stations
	Population and employment per square kilometre along major
	public transport corridors
	Number of public transport corridors achieving an increase in
	development and population density
	Amount of increase in property value along corridors of quality public transport projects
Information and	Number of policies developed encouraging ICT as a substitute for
Communications Technologies (ICT)	travel
	Average broadband speed of internet services
	Penetration of broadband among different income groups
	Penetration rate of mobile telephones in the country
	Increase in the amount of teleconferencing over business travel

	Number of policies and/or programs that promote telescopes with
	Number of policies and/or programs that promote telecommuting
	Estimated number of trips avoided through telecommuting
"Shift" Strategies	Meta Measure: Mode share of all major transport modes at the metropolitan and national levels, including passenger transport (walking, bicycles, car driver, car passenger, motorcycle driver, motorcycle passenger, motorized three-wheelers, non-motorized three-wheelers, buses, minibuses, and urban rail), inter-city transport (private motorized vehicles, bus, rail, and boat), and freight transport (truck, rail, barge, minivan, and non-motorized)
Non-Motorized Transport	Number of cities with NMT specifically highlighted in the city's integrated transport master plans Note the existence of national and local policies requiring drop curbs at interface between footpaths and intersections Note the existence of national and local policies mandating minimum footpath widths, and note the minimum width Note the existence of national and local policies mandating dedicated pedestrian signals at major intersections Promote the monitoring and measurement of the quality of pedestrian facilities and the number of cities surveyed or audited for a "walkability" score Number of cities with dedicated cycleways Number of secure bicycle parking spaces Number of cities with shared bicycle programmes and number of shared bikes per programme Number of cities with pedicabs (cycle rickshaw) improvement programmes Number of public transport systems with formal integration of pedicabs (cycle rickshaws) Number of cities participating in a Car-Free Day programme
Public Transport	Number of cities with trunk bus corridors operating on dedicated busway lanes in the median of the roadway (Bus Rapid Transit) Number of kilometres of dedicated, median busways (Bus Rapid Transit) Number of cities with bus systems using pre-board fare verification
	Number of cities with bus systems using pre-board fare verification and stations designed for at-level fast boarding Number of cities utilizing electronic fare cards on their public transport system Number of cities with a fully integrated fare structure across public transport modes

	Number of cities with elevated or underground metro systems (MRT)
	Number of kilometres of MRT
Transportation Demand Management	Number of cities or areas utilising congestion charging
	Number of cities or areas utilizing road tolls
	Number of cities employing a formal parking levy system, in which a parking levy is defined as a set land tax charged to each non-
	residential parking space, and is assessed regardless of whether or not the parking space is utilized
	Number of cities with active parking management programmes
	Amount of any increase in fuel levies
	Number of cities or regions which have adopted measures to discourage ownership and/or operations of private vehicles
	Amount of vehicle duties or taxes
Inter-City Passenger and Goods Transport	Increase of mode share of high-quality inter-city bus services
·	Increase of mode share of inter-city conventional rail services
	Increase of mode share of high-speed inter-city rail services
	Number of kilometres of high-speed inter-city rail
	Number of kilometres of freight rail lines
	Number of inland dry ports
"Improve" Strategies	Meta Measure: Fuel efficiency levels of passenger and freight fleets
Cleaner Fuels and Technologies	Market share of alternative fuels for road transport, including renewably-generated electricity, natural gas, and sustainably managed and cultivated biofuels that do not compete with food crops
	Market share of electric vehicles, hybrid vehicles, and fuel cell vehicles
Standards	Note current fuel quality standards and the time line for attainment of EURO IV (or equivalent) fuel quality standard
	Note current vehicle emission standards for each vehicle class
	Note current fuel economy standards for each vehicle class

Inspection and	Note the nature of commercial vehicle testing requirements,
Maintenance	including frequency of tests, emission levels required, safety
	features examined, and number of vehicles retired
	Number of cities that conduct roadway spot checks on vehicle
	emissions
	Note the type of vehicle insurance mandated by national and local
	laws
	Number of persons taking driver licensing testing and provision of
	the pass/fail rate
Intelligent Transportation	Number of public transport vehicles per city with Automatic Vehicle
Systems	Location tracking technology
	Number of public transport stations and vehicles using real-time
	information displays
	Number of cities with a control centre to manage traffic incidents
	and manage public transport fleets
Freight Transport	Quantify improvements in freight vehicle fuel efficiency
Treight hanspert	Qualitary improvements in resigne version rate emissency
	Quantify changes in freight vehicle types
	Quantity changes in reight vehicle types
	Quantify network efficiency gains
	Quantity network emciency gains
"Cross-Cutting" Strategies	
cross cutting strategies	
Cofoto	Reductions in number of traffic accidents
Safety	Reductions in number of trainc accidents
	Doductions in number of transport valeted injuries and deaths
	Reductions in number of transport-related injuries and deaths
	Adoption of a zero-accident policy framework
Health	Incidence levels of disease and illnesses related to transport
	emissions including asthma, other pulmonary diseases, heart
	disease, stroke, and flu
	Reduction in number of days with restricted outdoor activity due to
	health concerns of air quality
	Number of cities with policies in place to prohibit smoking in public
	places, including public transport systems
Air Pollution and Noise	Number of cities with ambient air quality monitoring, including
7 III T Gildaloir diid 110350	monitors for particulate matter (PM10 and PM2.5, nitrogen oxides
	(NOx), sulphur oxides (SOx), carbon monoxide (CO), and ground-
	level ozone, especially with monitors in high traffic areas and ports
	Air quality levels for particulate matter (PM10 and PM2.5), nitrogen
	oxides (NOx), sulphur oxides (SOx), carbon monoxide (CO), and
	ground-level ozone for each major city
	Number of days air quality is within local standards and WHO
	guidelines for all major pollutants in each major city
	Number of cities with formal noise monitoring programme

	Number of cities that spot check noise levels on vehicles
	Number of cities with time-of-day noise restrictions and noise
	reduction programmes
Climate Change and Energy	Note whether the transport sector is included as part of the
Security	Nationally Appropriate Mitigation Actions (NAMA), and note the
	specific transport sub-sectors in the NAMA
	Note the number of transport GEF projects approved for the country
	Amount of oil imported by the country
Social Equity	Amount and type of security measures provided on public transport systems
	Off-peak frequency of public transport systems
	Number of public transport vehicles and stations permitting full universal access for users in wheelchairs and parents with prams
	Number of public transport stations and kilometres of footpaths with tactile paving tiles for the sight impaired
	Number of kilometres of footpaths that have been upgraded to be
	fully accessible to persons in wheelchairs
	Relative affordability levels of public transport services for low-
	income groups
	Employment generated from EST projects and availability of related job training opportunities
Finance and Economics	Number of applications for greenhouse gas emission reduction
	credits
	Total amount of revenues generated from greenhouse gas emission
	reduction credits
	Total amount of revenues generated from congestion charging
	Total amount of revenues generated from roadway tolls
	Total amount of revenues generated non-rodaway tons
	Total amount of revenues generated from parking levies
	Number of Public-Private Partnerships (PPPs) implemented
	Total amount of revenues generated from land value capture
	initiatives
	Number of Benefit-Cost analyses conducted on transport projects,
	considering, direct, indirect, and cumulative impacts Note the results of Benefit-Cost analyses conducted on transport
	projects
Information and Awareness	Number of EST-related publications
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	Number of outreach and promotional efforts on EST

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Institutions and Governance	Number of staff at Transport, Environment, and Health Ministries
	dedicated to EST
	Amount of financial resources of the national government
	dedicated to EST
	Human and financial resources devoted to EST at the regional and
	local levels
	Existence of unit at National Government level dedicated to non-
	motorized transport and number of cities with local government units dedicated to non-motorized transport to promote walking
	Structure and relationship of national, regional, and local actors involved in EST, including engagement with civic and business
	sectors
	Note environmental impact assessments (EIAs) for evaluating the
	impact of transport infrastructure initiatives prior to environmental
	clearance