Promoting green growth in Asia: Role of urban planning and design to encourage environmentally sustainable transport

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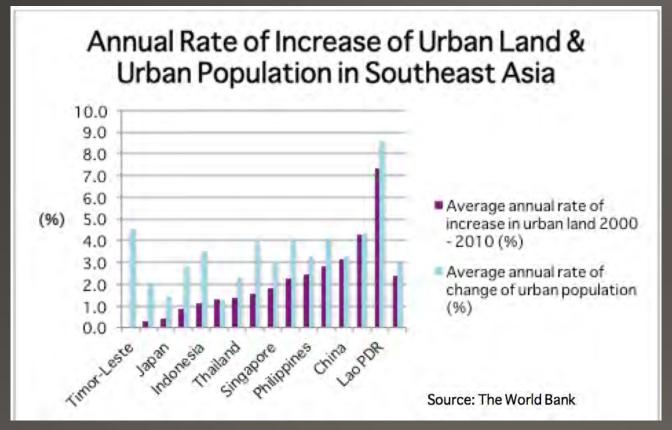
The common challenges



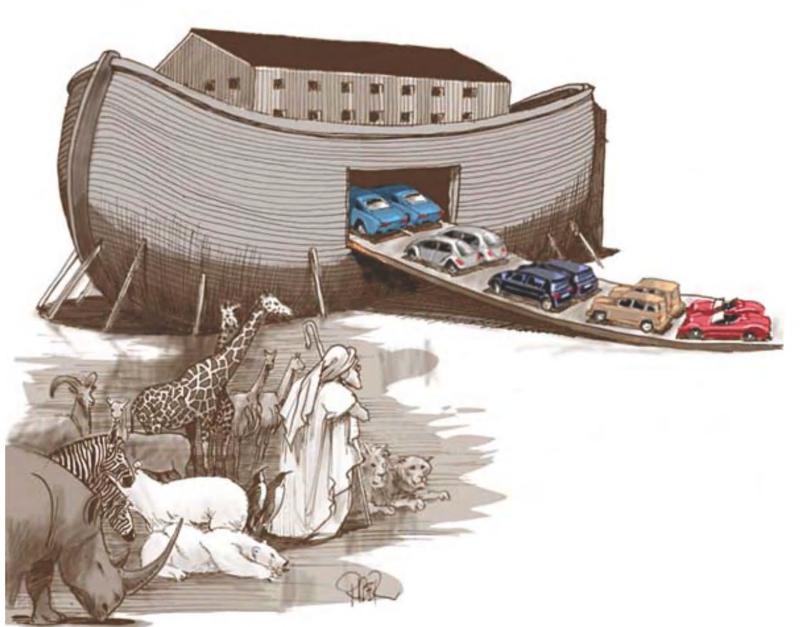
Space for people?



Asia growth continues...







Riber Hansson

Integration mobility and planning + horizontal and vertical integration

National Urban (Mobility) Policy + SDG + NDC

Sustainable Urban Mobility Plans + Metropolitan
Governance

Finance

Capacity Building **TOD+MRT&BRT**

Safe and accessible neighborhoods + new mobility solution

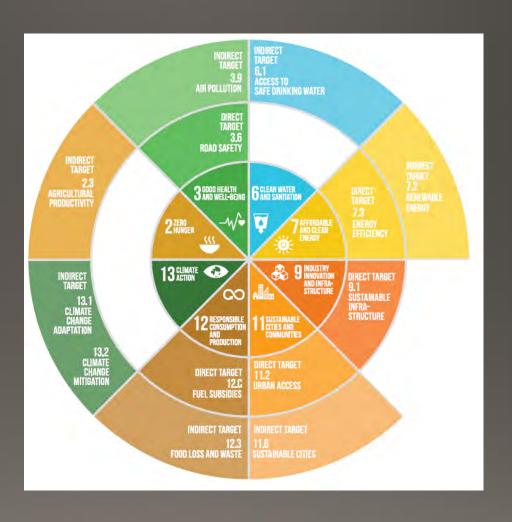
+ Walking and Cycling

Instituti onal Set-up

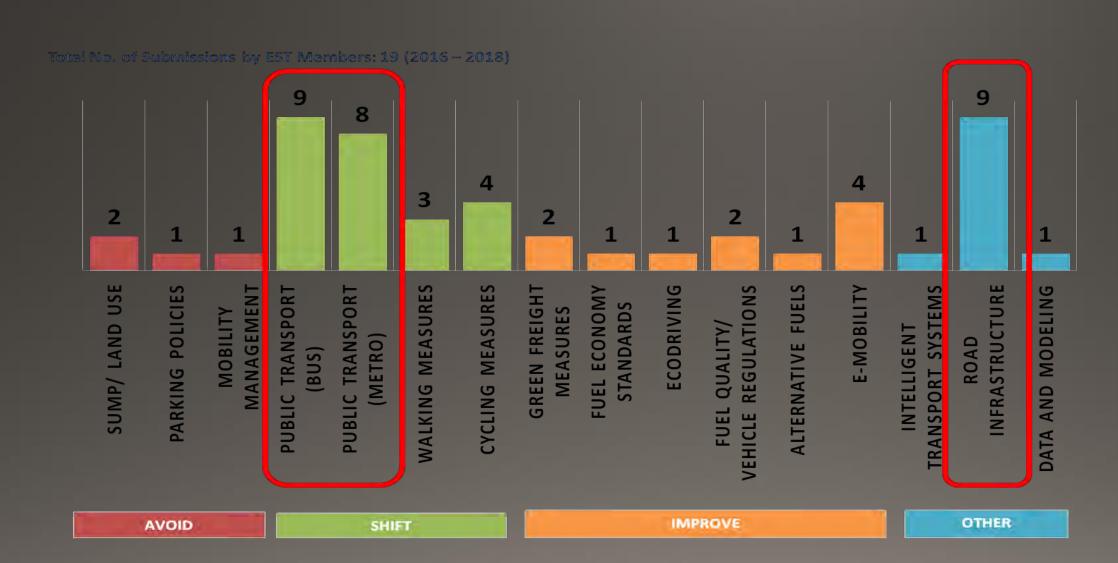
Sustainable Development Goals – Transport & Urban Development Nexus

-11.2 & 11.3





Reporting on the SDG: Total number of submissions by EST members



Transport measures in NDCs lack ambition and comprehensiveness

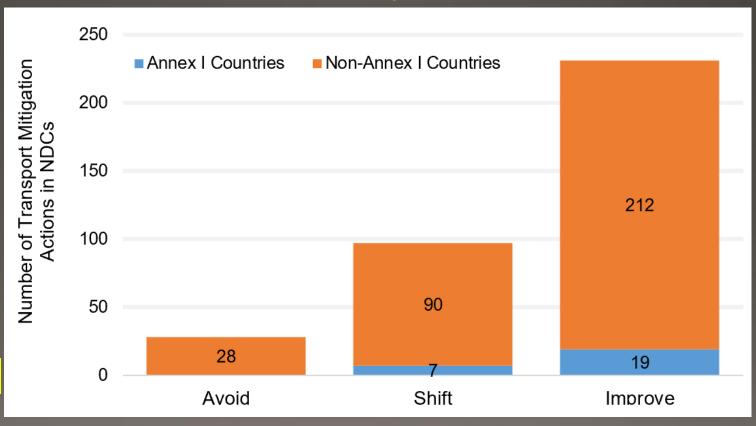
- emphasize 'Improve' over 'Avoid' and 'Shift'

Share of Avoid, Shift and Improve Measures in NDCs

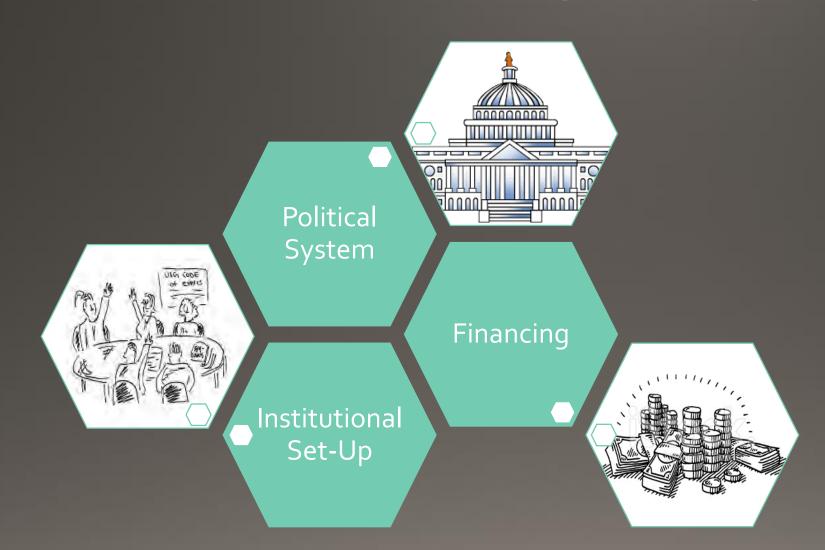
76% of the submitted 165 NDCshighlight the transport sector as a mitigation source

Only **8% of NDCs** propose transport sector emission reduction targets

Current NDCs are **not sufficient** enough to reach Paris Agreement goals

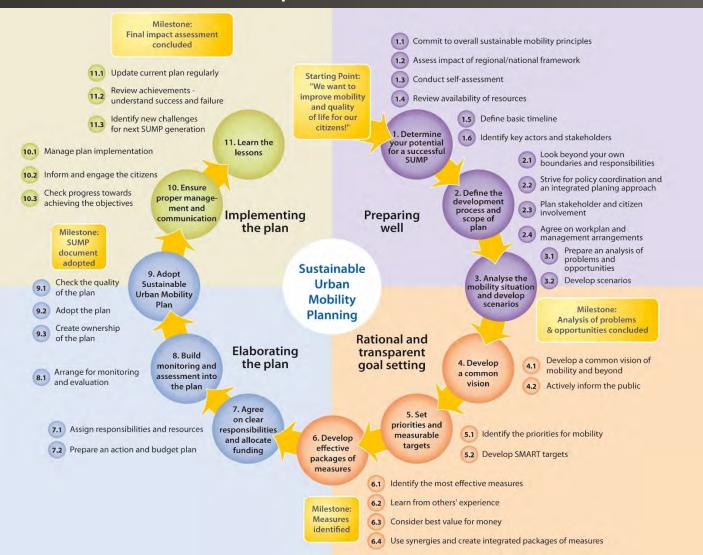


National Urban Mobility Policy



Sustainable Urban Mobility Planning

European Union



Brasil



Towards a city for all – Principles for better mobility <u>and</u> urban development

- ✓ Public transit as a backbone for structuring urban growth
- ✓ Street connectivity to facilitate walking and cycling
- ✓ Complete streets to balance road space allocation to cater to all users
- ✓ Compact regions to discourage urban sprawl
- ✓ Mixed uses to reduce trips and trip lengths
- ✓ Mixed incomes to cater to ensure affordability and equity
- ✓ <u>Transportation demand management</u>
- ✓ Urban Design for place making



Source: ITDP

local activity.

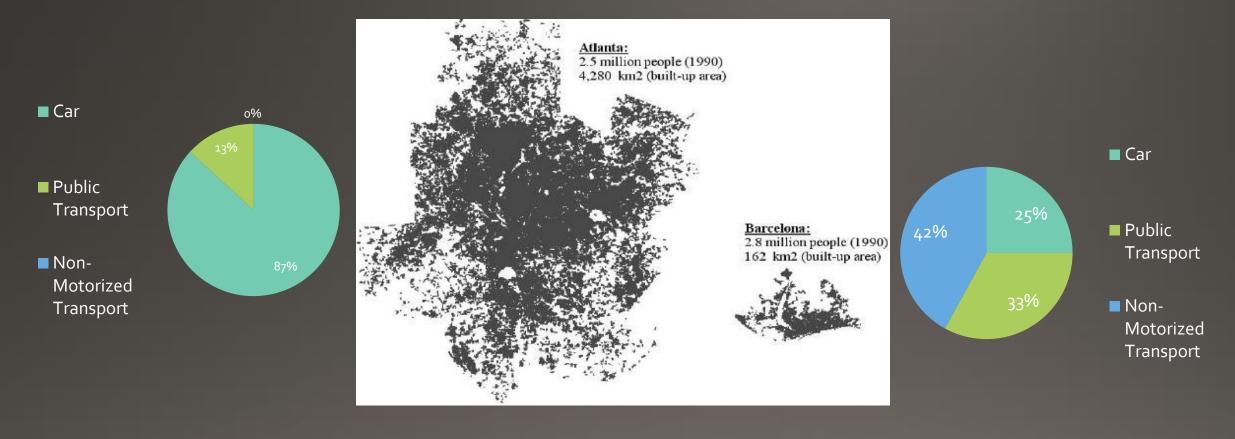
A transition towards Transit Oriented Development is possible: Curitiba, Brazil



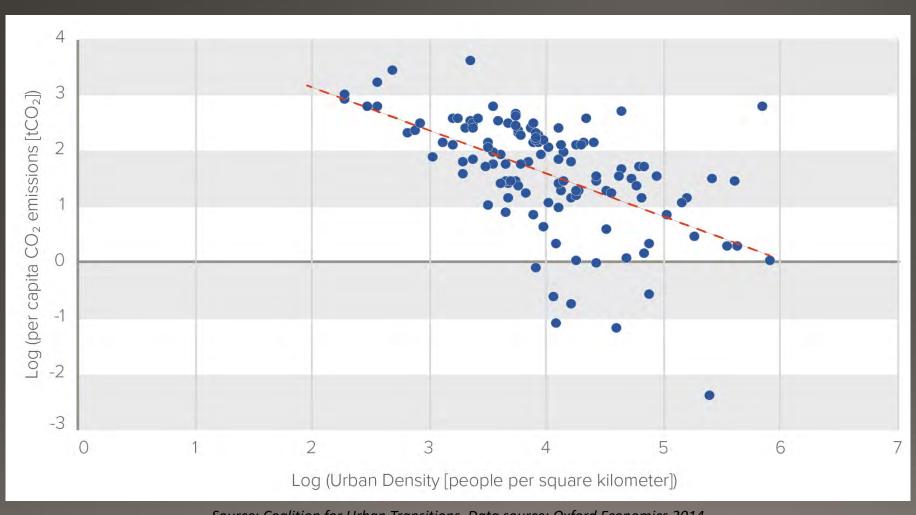
A transition towards Transit Oriented Development is possible: Curitiba, Brazil



Low-carbon and high carbon transport city is cheaper



COMPACT REGIONS: Population density and carbon emissions



Source: Coalition for Urban Transitions. Data source: Oxford Economics 2014

Re-allocation of space - Pune



Guanghzou

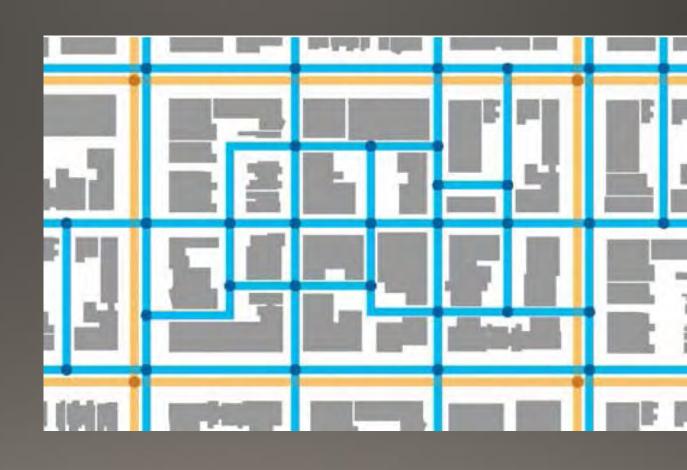






STREET CONNECTIVITY

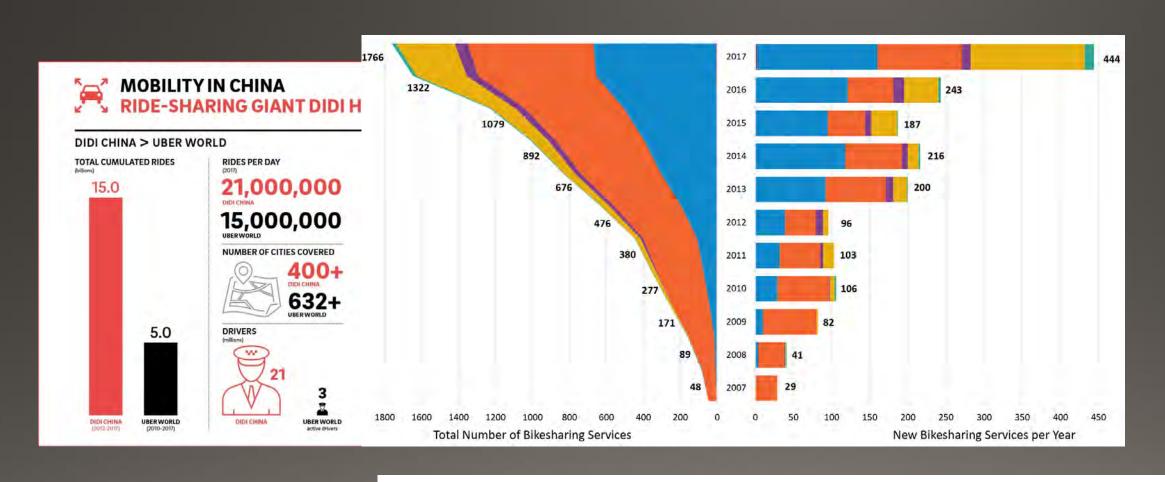




Source: EMBARQ Source: ITDP



New Mobility Services - exponential growth – Ride Hailing – Bike Sharing



Europe

■ Latin America and the Caribbean

Northern America

Oceania

Africa

Asia

New Mobility - Heaven or hell?

Good practice: Geo fencing, Pricing policy, local regulation



Bad practice: Unregulated, vandalism





Shared Mobility Principles for Livable Cities

The future of mobility in cities is multimodal and integrated. When vehicles are used, they will be right-sized, shared*, and zero emission. These principles guide urban decision-makers and stakeholders toward the best outcomes for all.

Plan cities and mobility together

Design for equitable access

Focus on moving people, not cars

Encourage efficient use of space and assets

Engage stakeholders in decision making

Seek fair user fees Deliver public benefits via open data

Promote integration and seamless connectivity

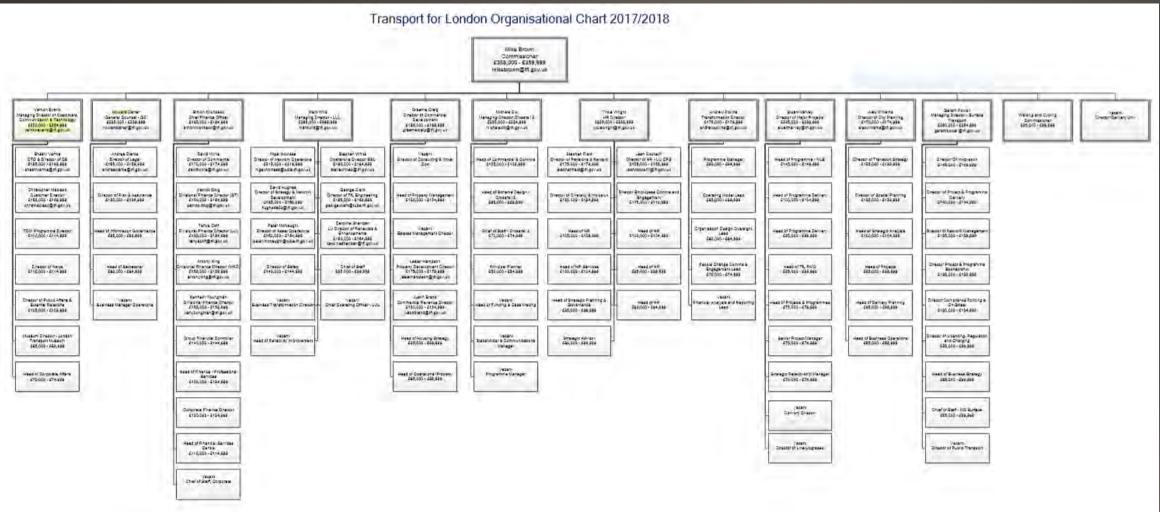
red vehicles include all those used for hire to transport people s transit, private shuttles, buses, taxis, auto-rickshaws, car

Automated vehicles must be shared

SharedMobilityPrinciples.org #LiveableCities #10principles

Transition towards zero emissions

Enabler: Institutional Strengthening



^{1.} This data is correcting at 1 April 2012.

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Enabler: Finance and funding

		Amount typically involved	Infra- structure	Main- tenance	Public transport	Techn- ology	Insti- tutions	Policies	Traffic Man.
Local Instruments	Parking charges	\$		Х	Х		Х		Х
	Road Pricing/congestion charge	\$\$	х	Х	Х	Х	Х	Х	х
	Employer contributions	\$\$	х	х	х				
	Fare box revenues	\$\$			Х				
	Public transport subsidies	\$			Х				
	Land development/land value taxes	\$\$\$	Х		Х				
	Public private partnerships	\$\$	х	Х	Х	Х			
	Advertising	\$		Х	Х				
National Instruments	Fuel taxes/surcharges	\$\$\$	х	Х	Х		Х	х	х
	Vehicle related taxes and charges, including auctioning of quotas	\$\$\$	x	X	X		X	X	X
	Loans and grants	\$\$	х				Х		
Global Instruments	CDM	\$			X	Х			
	GEF	\$	х		Х	Х	Х	Х	
	Multilateral/bilateral climate funds	\$	Х		Х	Х	Х	X	

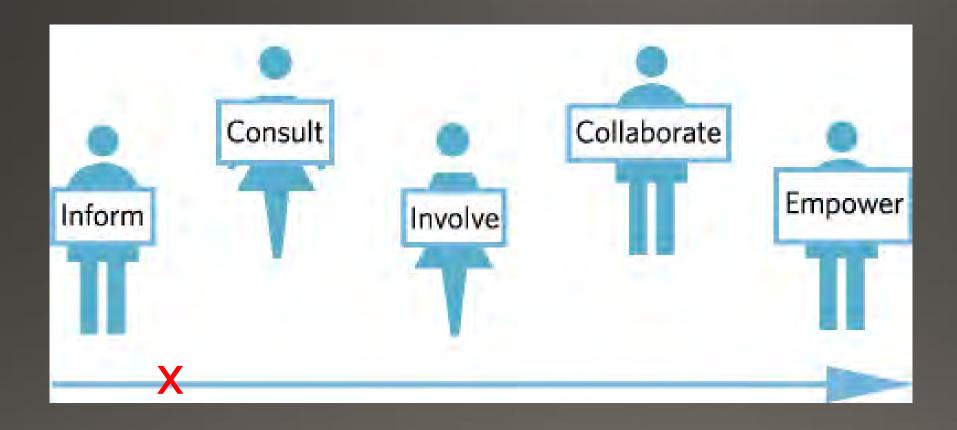


HK\$4 billion (US\$506 millons for land around station, 32% of the anual Budget of the Local Agency

(http://www.bloomberg.com/news/2011-03-03/mtr-s-full-year-underlying-profit-advanced-19-on-home-sales-fare-revenue.html)

Foto Cortesía Oren Tatcher

Enabler: Inclusion and Participation



Recommendations

- 1. Develop a Coherent National Urban Mobility Policy
- 2. Regulatory frameworks for urban planning towards Sustainable Urban Mobility
- Enabling metropolitan planning and create a one stop shop for urban and transport planning
- 4. New technology must be leveraged for collect and update data
- 5. Cities implementing BRT systems deserve special attention,
- Expand metropolitan and local governments' fiscal powers along with building municipal creditworthiness,
- 7. Building capacity on finance and revenue generation, alleviate revenue losses associated with reforms and revising fiscal transfer rules.
- 8. Devolve authority to metropolitan governments to undertake environmentally sustainable transport and urban planning creating a town planning and urban design departments within a transit authority

Integrate the urban development and transport nexus

- Towards a stronger attention of the AVOID Pillar in SDG and NDC
- Dialogue with planning and housing community and decisionmaker
- From complete street to Metropolitan planning exchange on good practice
- Future tracking on the Avoid pillar as part of SDG and NDC deliverable

Recommendations for the EST Forum

- An overarching vision would be to become the key platform for environmental sustainable transport to enhance action on delivering on the SDG and the Paris Agreement for Asian countries. Core elements:
- The EST Forum could be an important platform and opportunity for member countries to enhance their reporting of SDG and NDC implementation by exchanging good practices on environmentally sustainable transport, urban planning and accountable, coordinated governance.
- Key Performance Indicators established under the Bangkok Declaration also served as important tools for countries to report data related to SDG and NDC implementation.
- The follow-up declaration to the Bangkok Declaration should consider helping EST members to set and report specific, quantified output and outcome targets for integrated sustainable transportation, urban development and improved governance.

Thank you for your attention

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