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Sustainability of Public Transport in Asia



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Enhancing overall sustainability

- Different forms of public transport: Metro, Bus, urban rails, Bus Rapid Transit
- Low share of public transport
- Growth of private vehicles- two wheelers
- High share of para transit and active mobility
- Assessment of urban mobility using SUTI



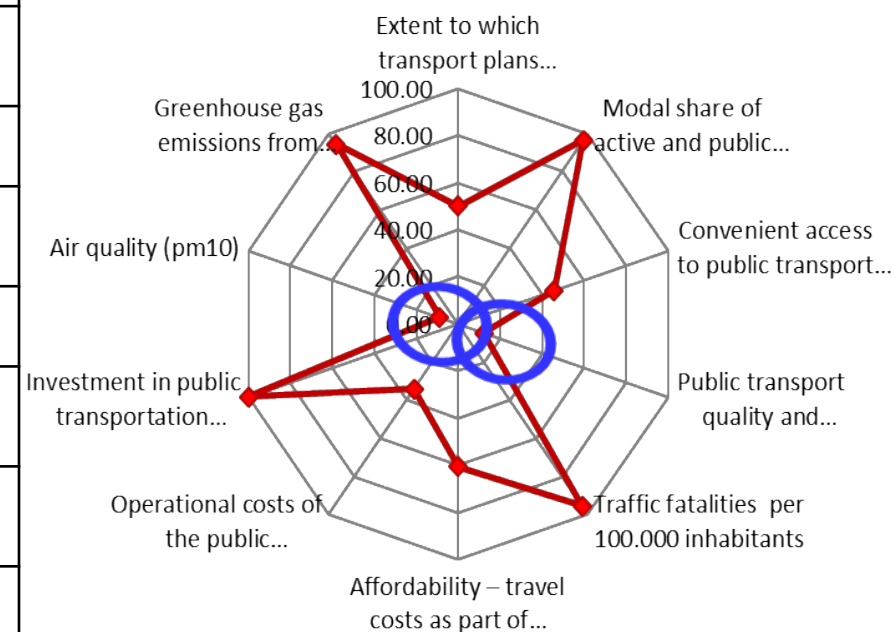
Transition to Electric Mobility

- Strategies and policies on electric mobility in public transport
- Pilot countries
- Regional Initiatives on Electric Mobility in Asia

2 Sustainable Urban Transport Index (SUTI)

No	Indicators	Measurement units	Weights	Range	
				MIN	MAX
1	Extent to which transport plans cover public transport, intermodal facilities and infrastructure for active modes	0 - 16 scale	0.1	0	16
2	Modal share of active and public transport in commuting	Trips/mode share	0.1	10	90
3	Convenient access to public transport service	% of population	0.1	20	100
4	Public transport quality and reliability	% satisfied	0.1	30	95
5	Traffic fatalities per 100,000 inhabitants	No of fatalities	0.1	10	0
6	Affordability – travel costs as part of income	% of income	0.1	35	3.5
7	Operational costs of the public transport system	Cost recovery ratio	0.1	22	100
8	Investment in public transportation systems	% of total investment	0.1	0	50
9	Air quality (pm10)	µg/m3	0.1	150	10
10	Greenhouse gas emissions from transport	CO2 Eq. Tons	0.1	2.75	0
SUM			1.00		

25 Cities in 15 countries



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SUTI-Resources and Guideline

SUTI web site: <https://www.unescap.org/kp/2021/sustainable-urban-transport-index-suti>

Monograph Series- Assessment of Urban Transport Systems

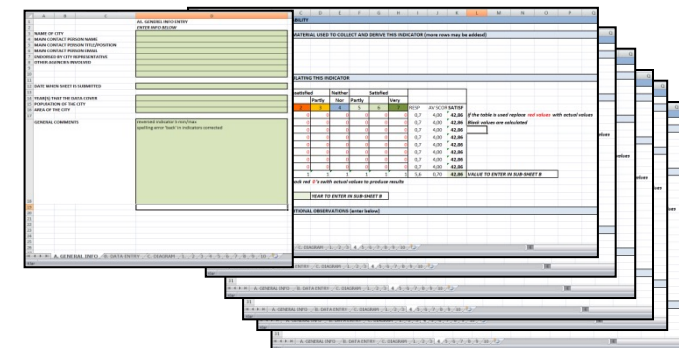
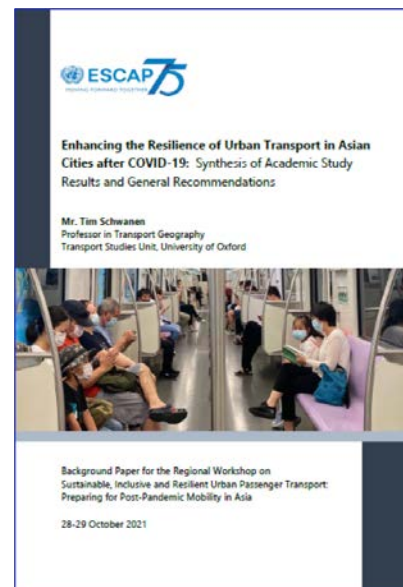
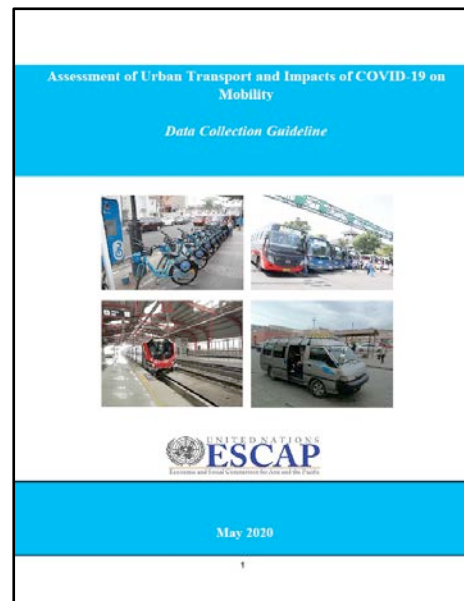
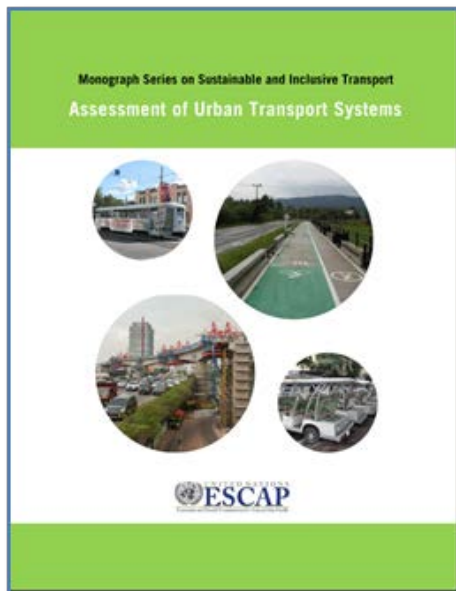
https://www.unescap.org/sites/default/files/publications/Monograph%20series%20on%20Urban%20Transport_final_24-10-2017.pdf

Data Collection Guideline

https://www.unescap.org/sites/default/files/SUTI%20Data%20Collection%20Guideline%20_%202020%20updated.docx_.pdf

Workshop Post-Pandemic Mobility:

<https://www.unescap.org/events/2021/regional-workshop-sustainable-inclusive-and-resilient-urban-passenger-transport>



4 Transition to Electric Mobility

- High share of renewables in power grid
Urban transport master plans - implementation? Results?
- Current focus on electric two-wheeleders and private cars
- Big Push towards Sustainability: Electric Bus Transport
- Policy and strategies on transition to electric mobility- operational strategy
- Pilot countries: Georgia, Laos, Nepal and Thailand
- Regional Initiatives on Electric Mobility in Asia

