

Sustainable Urban Transport Index (SUTI)

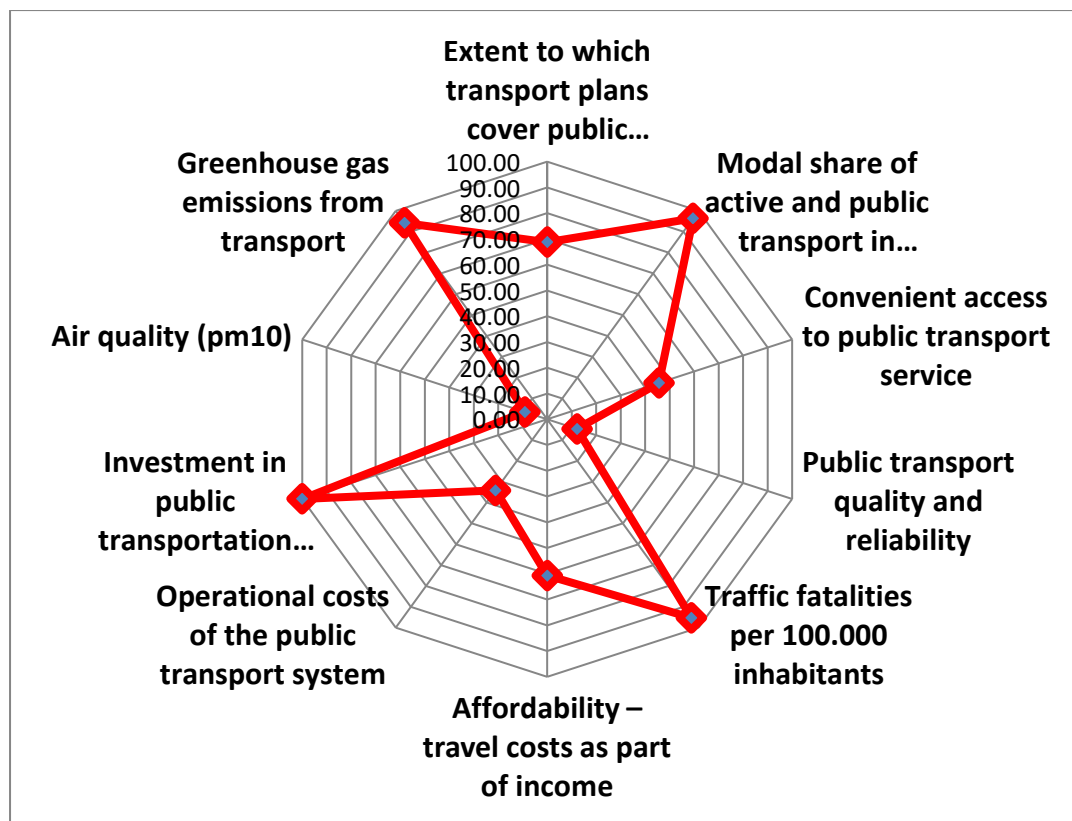
Sustainable Urban Transport Index (SUTI) is a framework of indicators for the assessment of urban transport systems and services in a city. The following table lists the 10 indicators, measurement units and normalization range. The indicators and SUTI can help summarize, track and compare state of urban transport performance in a city. SUTI can serve as a useful tool for cities to assess the achievement of the SDG target 11.2 and implementation of the New Urban Agenda.

Indicators for SUTI

No	Indicators	Measurement units	Weight	Range	
				Min.	Max.
1	The 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	Percentage of population	0.1	20	100
4	Public transport quality and reliability	Percentage satisfied	0.1	30	95
5	Traffic fatalities per 100,000 inhabitants	Number of fatalities	0.1	10	0
6	Affordability – travel costs as part of income	Per cent 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	Percentage 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/capita/year	0.1	2.75	0
Total			1.00		

The ranges of indicators 5 and 7 are revised following a review and recommendation of the workshop held in Dhaka. Indicators on different scales are normalized and performance of each indicators is compared on a scale of 1-100 and SUTI is derived by geometric aggregation of 10 indicators, based on equal weighting. A data collection guideline and an Excel SUTI data sheet are developed to support data collection and analysis. Entering data for all ten indicators will calculate SUTI, generate a spider diagram and allow a review of the city's overall state of urban transport as well as performance of each indicator.

The visual display of state of each indicator in a city easily allows policymakers to comprehend the urban transport system. A high value (near the outer circle of the diagram) indicates good results and the indicators which have low values (near the centre of the circle) need more attention. Repeating the exercise over at regular interval (every two years) would allow a city to track performance and results over time. Application of the index among similar cities with standardized data collection methodologies would enable comparison and to benchmark their performance against individual indicator and index.



A capacity building workshop was organized in Colombo in October 2017 to share the results of pilot application of SUTI in four cities – Colombo, Greater Jakarta, Hanoi, and Kathmandu. Application of SUTI is progressing in six more cities: Bandung; Dhaka; Ho Chi Minh City; Surabaya; Surat and Suva and a workshop was held in Dhaka in September 2018 to share initial results. During 2019, assessment of urban mobility was conducted in Bhopal, Khulna, Thimphu, Tehran and Ulaanbaatar and a capacity building workshop was held in Hanoi in October 2019 to share results,

The Fifth Session of the Committee on Transport held in November 2018 endorsed the SUTI and recommended for its wider application throughout the region. UNESCAP would like to encourage cities and countries to use SUTI for assessment of urban transport systems and use results to initiate and implement evidence based policies and measures to improve urban transport systems and services. UNESCAP is looking forward to establish new partnerships with cities, countries and related stakeholders to expand index application to major, secondary and emerging cities.

More information on SUTI is available from:

<http://www.unescap.org/publications/monograph-series-sustainable-and-inclusive-transport-assessment-urban-transport-systems>

<http://www.unescap.org/events/capacity-building-workshop-sustainable-urban-transport-index-suti>

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