



DETAILED SCHEDULE

1st World Symposium on Sustainable
Transport and Livability

WSSTL-2025

Organized By:

SIG-F4, World Conference on Transport Research Society (WCTRS)

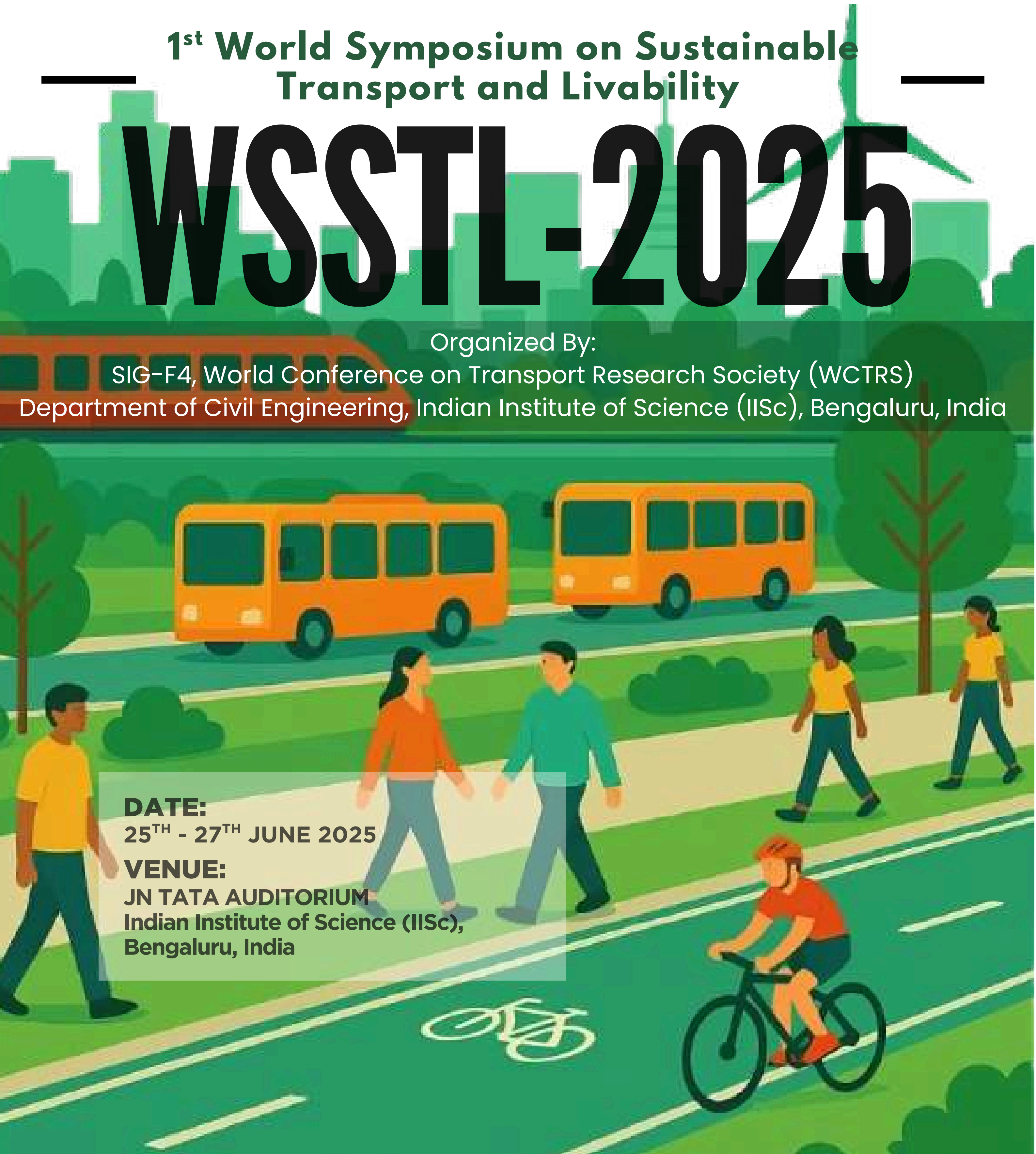
Department of Civil Engineering, Indian Institute of Science (IISc), Bengaluru, India

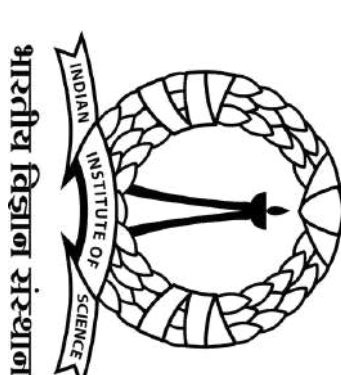
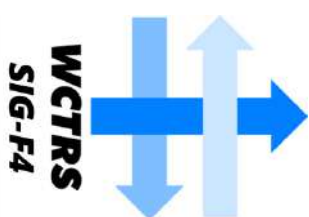
DATE:

25TH - 27TH JUNE 2025

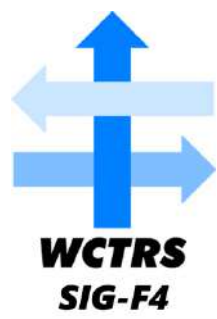
VENUE:

JN TATA AUDITORIUM
Indian Institute of Science (IISc),
Bengaluru, India






Time /Date	Tue, 24 June 2025	Time	DAY 1		Time	DAY 2		Time	DAY 3	
			Wed, 25 June 2025			Thu, 26 June 2025			Fri, 27 June 2025	
		08:30 to 09:30	Registration / Exhibition Visit		08:30 to 09:00	Registration / Exhibition Visit		08:30 to 09:00	Registration / Exhibition Visit	
		09:30 to 10:30	Inaugural Session		09:00 to 10:00	Keynote Session 2		09:00 to 10:00	Keynote Session 3	
		10:30 to 11:00	High Tea / Exhibition Visit		10:00 to 10:30	Tea & Coffee Break / Exhibition Visit		10:00 to 10:30	Tea & Coffee Break/ Exhibition Visit	
		11:00 to 12:00	Keynote Session 1		10:30 to 11:30	GIZ Plenary Session 2		10:30 to 11:30	BeST-Biocon Plenary Session	
		12:00 to 13:00	ICCT Plenary Session		11:30 to 12:30	K-RIDE Plenary Session		11:30 to 12:30	IST Lab Plenary Session 3	
14:00 to 17:00	Pre-Symposium Workshop	13:00 to 14:00	Lunch Break / Exhibition Visit		12:30 to 13:30	Lunch Break / Exhibition Visit		12:30 to 13:30	Lunch Break / Exhibition Visit	
		14:00 to 15:30	Technical Session 1	Technical Session 2	13:30 to 14:30	IST Lab Plenary Session 1		13:30 to 14:30	AM-CoE Plenary Session	
					14:30 to 15:30	WRI Plenary Session		14:30 to 15:30	Uber Plenary Session	
17:00 to 18:00	Registration	15:30 to 16:00	Tea & Coffee Break / Exhibition Visit		15:30 to 16:00	Tea & Coffee Break / Exhibition Visit		15:30 to 16:00	Tea & Coffee Break / Exhibition Visit	
		16: 00 to 17:00	GIZ Plenary Session 1		16:00 to 17:00	IST Lab Plenary Session 2		16:00 to 17:00	DPIIT Plenary Session	
18:00 to 20:00	Welcome Reception cum Community Engagement Session	17:00 to 19:00	Technical Session 3	Technical Session 4	17:00 to 17:30	Exhibition Visit		17:00 to 18:30	Valedictory Session	
			Exhibition Visit			Heritage Tours by Walking & Cycling				
		19:00 to 19:30			17:00 to 19:00			18:30 to 19:00	High Tea / Exhibition Visit	



24 JUNE TUE | WSSTL-2025 DETAILED SCHEDULE

14:00 - 17:00 Pre-Symposium Workshop



 **Ramanujan-Newton
Sabhagriha
ITES Centre,
Dept. of Civil
Engineering**

Methodologies to Quantify Sustainable Transport and Quality of Life (QoL)

This workshop is designed to explore the critical intersections between sustainable transport and its impact on well-being, health, happiness, livability, equity, accessibility, environmental quality, and disaster resiliency. Participants will engage in discussions on how sustainable transport interventions can enhance the physical, mental, economic, and social health of individuals and communities. This workshop explores the multi-dimensional Transportation Quality of Life Index framework, designed to evaluate the impacts of sustainable transportation interventions on overall quality of life at a network level, using the Bangalore Metropolitan Region as a case study. Additionally, the workshop will examine the developed local QoL index framework, tailored for assessing the effects of pedestrianization, with Church Street in Bengaluru highlighted as a successful example of on-ground implementation. Further, the 3-hour session will also explore the mental wellbeing i.e., hedonic and eudaimonic dimensions as a part of the subjective QoL. The workshop is open to all on a first-come, first-served basis, with an additional registration fee. Certificates will be awarded to all participants who successfully complete the workshop.

Workshop Agenda

Time	Agenda	Duration
2:00PM – 2:05 PM	Welcome & Introduction	5 min
2:05PM – 2:15 PM	Module 1: Basic Concepts of Livability and QoL	10 min
2:15PM – 3:05 PM	Module 2: Local-Level and Network-level Transport QoL Framework & Case Study	50 min
3:05PM – 3:15PM	Q&A for Module 2	10 min
3:15PM – 3:30PM	BREAK	15 min
3:30PM – 4:00 PM	Module 3: Introduction: Transport and Well-being Parameters	30 min
4:00PM – 4:10PM	Q&A for Module 3	10 min
4:10 PM– 4:40 PM	Module 4: System Resilience and its dimensions: How it contributes to well-being?	30 min
4:40PM – 4:50PM	Q&A for Module 4	10 min
4:50PM – 5:00PM	Concluding Remarks & Group photo	10 min

17:00 - 18:00



 **JN Tata
Auditorium**

Registration



24 JUNE TUE | WSSTL-2025 DETAILED SCHEDULE

18:00 - 20:00



**J N Tata
Auditorium**

Welcome Reception cum Community Engagement Session

Moderator: Mr Prakash Belawadi, Actor-Director

Rapporteur: Mr Gautam Narula, Research Scholar, IST Lab, IISc Bengaluru

■ Malleswaram Social: “Walkable Malleswaram”

The Walkable Malleswaram project, led by Malleswaram Social as part of the Sustainable Mobility Challenge, focuses on improving the conservancy lanes in the neighborhood. The poster highlights visible transformations by showcasing before-and-after examples of these lanes, demonstrating significant enhancements in cleanliness and accessibility. Murals created alongside the lane improvements form an integral part of the project's identity, adding vibrancy and community spirit to the public spaces, with several featured examples included in the poster.

■ ITDP, India: “Pimpri Chinchwad’s First Vehicle Free Day – A Bold Step Toward a People-First City”

In March 2025, Pimpri Chinchwad transformed an 825-meter stretch of Pimpri Market into a vibrant, vehicle-free zone for two days, involving over 750 shops and thousands of citizens. Supported by PCMC and ITDP, the event featured street art, awareness activities, and community engagement, creating a safe and breathable space. The initiative led to a 57% drop in air pollution, noise reduction from 95dB to 55dB, and a 20% increase in footfall with 15% new customers for shops. Built on months of collaboration with stakeholders, this successful pilot paves the way for permanent pedestrianisation and a cleaner, safer Pimpri Chinchwad.

■ B.PAC: “IRR Street: Standstill to Active; A comprehensive & collaborative approach to sustainable mobility”

Led by B.PAC, the project aims to improve bus service reliability, walkability, and road safety along a 7.5 km stretch of Bengaluru’s Inner Ring Road from Indiranagar KFC Junction to Madiwala Masjid. Through detailed surveys, data analysis, and coordination with authorities, BMTC increased bus frequency, and efforts are ongoing to install missing bus shelters. Safety improvements include 45 new streetlights and rectification of four crash blackspots with speed humps, raised crossings, and rumble strips, reducing fatalities from five to zero in recent months. Planned interventions at Domlur flyover and waste clearance at Ejipura flyover have addressed pedestrian access and long-standing debris issues. Stormwater management was enhanced by closing open drains and improving drainage spacing, boosting monsoon resilience. Several interventions remain underway to further enhance corridor safety and usability.

■ Sensing Local: “Walkable Bengaluru”

Under the Walkable Bengaluru initiative by Sensing Local, walkability audits have been carried out in 19 wards across the city, covering over 350 km of footpaths and 185 junctions. Using 27 parameters to evaluate pedestrian infrastructure, the project was made possible through close collaboration with local community groups and the support of over 150 trained volunteers who conducted on-ground assessments. The comprehensive, hyperlocal data collected is now publicly accessible at www.walkablecities.in. This data enables evidence-based decision-making to improve walkability in Bengaluru by guiding the selection of roads for pedestrian upgrades, informing neighborhood parking strategies, addressing footpath encroachments by shops and vendors, identifying and redesigning high-risk junctions for pedestrian safety, and reducing pollution exposure through better urban design.



24 JUNE TUE | WSSTL-2025 DETAILED SCHEDULE

18:00 - 20:00



**J N Tata
Auditorium**

Welcome Reception cum Community Engagement Session

■ CITIZENS FOR CITIZENS (C4C): “Stop Jam, Kill Noise, Light on Darkness - LIVE BETTER”

Since 2019, Citizens for Citizens, a Bengaluru-based civic group, has actively worked to improve the city's transport systems and overall quality of life through several key initiatives. Their STOP JAM campaign has driven major public transport enhancements, including new metro feeder services, improved in-metro announcements, and better local rail connectivity to the airport. They have also provided first aid training to transport staff and developed solutions for traffic bottlenecks, with four already implemented successfully. The KILL NOISE campaign, addressing vehicular noise pollution, has conducted over 30 awareness drives and led to “No Honking” signage at metro stations, the declaration of Cubbon Park as a Silence Zone, and efforts to reduce honking near the airport. Through the LIGHT ON DARKNESS initiative, in partnership with BBMP, the group piloted a project in Vasanthanagar to eliminate streetlight dark spots, enhancing pedestrian safety and security.

■ Malleshwaram Swabhimana Initiative Forum: “Sustainable, Safe Public Transport for the Masses”

Malleshwaram Swabhimana Initiative is one of the oldest resident welfare associations in Bengaluru, and has been working towards a cleaner, greener and safer Malleshwaram for the past 24 years. They act as a bridge between the citizens and department officials to get civic problems solved. In WSSTL-2025 community engagement session, they highlight the fact that, the traffic congestion, noise, and air pollution in Bengaluru City, can only be solved by a good public transport system like buses, suburban trains and metro. Their presentation will highlight the need for last mile connectivity to make them efficient.

■ HSR Citizen Forum & HSR Cyclists Group: “Sustainable Mobility - HSR Feeder Service”

The HSR Feeder Bus Service is a successful initiative under the Sustainable Mobility Accords (SuMA) by the Directorate of Urban Land Transport (DULT). Following extensive groundwork, BMTC introduced a reliable and efficient loop service spanning 8.6 km with 10 feeder buses serving HSR Layout. As SuMA partners, the HSR Citizen Forum and HSR Cyclists Group led an enthusiastic and sustained campaign to promote the service, organizing 67 on-ground events within the first 100 days. Their efforts have helped establish the service as a dependable mobility option embraced by people from all walks of life. The poster showcases usage trends of the feeder service and highlights its environmental, economic, and social benefits, reinforcing the value of accessible and sustainable public transport in urban neighborhoods.

■ Citizen for Sustainability (CiFoS): “Pedaluru: Bengaluru's Citizen-Led Cycling Movement”

Citizens for Sustainability aims to mitigate anthropogenic causes of climate change by working with the public, via campaigns and events, to bring about a behaviour change. CiFoS will talk about Pedaluru, a citizen-driven, non-profit cycling event in Bengaluru, celebrating sustainable mobility and community spirit.



24 JUNE TUE | WSSTL-2025 DETAILED SCHEDULE

18:00 - 20:00



**J N Tata
Auditorium**

Welcome Reception cum Community Engagement Session

■ WoW Group Trust: “Travel Sustainably: Every Step Counts”

Women of Wisdom (WoW) Group is formed by a group of Women and residents of JP Nagar 17th B Main, Bengaluru, who teamed up for resident's welfare and administration of civic and cultural activities. They will present the benefits of sustainable transportation and the sustainable modes of transport and their contributions to well-being such as zero emission and health.

■ CFAM: “Bicycle Heros”

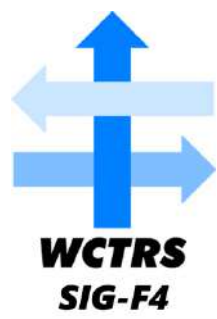
Council for Active Mobility (CFAM) is the brainchild of Bengaluru's Bicycle Mayor Mr Sathya Sankaran. It is comprised of Active Mobility Councillors and other volunteers who are interested in making the city pollution and congestion-free, hence making it easier for its residents to become fit and healthy – both physically and mentally. Bicycle Heroes is a global initiative that encourages children to imagine and design better cities for cycling. Kids act as "heroes" by sharing their ideas for making streets safer, more fun, and more accessible for people on bicycles.

■ Jana Urban Space: “The Journey of Tender S.U.R.E”

This poster showcases the transformative journey of Tender S.U.R.E., a flagship initiative by Jana Urban Space, from its inception as a set of urban road design guidelines to its evolution into a nationwide policy influence. Highlighting its impact on climate resilience, gender safety, public health, and sustainable mobility, the poster traces the programme's growth from the successful implementation of 10 km in Bengaluru's central business district to over 89.5 km completed and 213.2 km under construction across 19 Indian cities. It also reflects ongoing capacity-building efforts under the SUM-ACA program, empowering cities to adopt people-centric street design through Tender S.U.R.E.'s proven framework.

■ IISc Sustainable Transportation Lab (IST Lab): “Empirical Work of IST Lab on Sustainable Transport and Livability”

Since its inception in 2009, the IISc Sustainable Transportation Lab (IST Lab) has been deeply rooted in community-focused, data-driven, evidence-based research to promote sustainable mobility and livability. This poster showcases a curated summary of their diverse body of work, from pedestrianisation projects shaped in collaboration with local residents, vendors and policy makers to design safer, more inclusive public spaces, to studies of crowd movement during mass religious gatherings, and impact of upcoming MRTS systems, including tunnel roads and double-decker metros. Recognising the need for adaptation measures to overcome the climate change vulnerabilities in transportation systems, IST Lab has explored resilience strategies grounded in local realities. Equally, the gender mobility work in Bengaluru identified 19 actionable policy interventions to support a more equitable modal split. Each of these efforts reflects the core belief that transport planning must be inclusive, context-sensitive, and co-created with the communities it serves.



25 JUNE | WSSTL-2025 WED DETAILED SCHEDULE

08:30 - 09:30
J N Tata Auditorium

Registration / Exhibition Visit

09:30 - 10:30
J N Tata Auditorium

Inaugural Session

10:30 - 11:00
Dining Area,
J N Tata Auditorium

High Tea / Exhibition Visit

11:00 - 12:00



J N Tata
Auditorium

Keynote Session 1: Prof. Guenter Emberger
Are Sustainability and Quality of Life and the Choice of Means of Transport Related?

This keynote presentation explores the interconnections between sustainability, quality of life, and transportation choices through an innovative assessment method for transport systems. Starting from global megatrends such as technological advancements, demographic shifts, and climate protection, a new set of indicators for qualitative evaluation of various transportation systems is introduced. The application to Vienna, consistently ranked among the world's most livable cities, demonstrates that sustainable mobility and high quality of life are mutually reinforcing. The presentation stimulates a critical dialogue on the future of urban transportation systems and livability.

Keynote Session Chair: Prof. Aruna Sivakumar, Imperial College London

Rapporteur: Ms. Ann Das, Research Scholar, IST Lab, IISc Bengaluru

12:00 - 13:00



J N Tata
Auditorium

ICCT Plenary Session

Advancing Public Transport and Well-being through Zero-emission Buses

The ICCT India, through its research, is actively exploring the electrification of bus transport using zero-emission buses (ZEBs) in both intracity and intercity segments. This includes evidence-based advocacy for neighbourhood-scale electric bus services within cities, as well as identifying policy and infrastructure enablers for long-distance intercity e-bus deployment. Findings from ICCT's recent neighborhood transit analysis reveal that 31% of Delhi's population lacks access to a bus stop within 500 meters, highlighting the urgent need to reimagine urban bus planning to improve local-level connectivity. Simultaneously, ongoing research into intercity operations shows that e-bus adoption among private operators remains sluggish, threatening India's national fleet electrification targets for 2030 and 2047.

Key barriers, such as financing gaps, limited charging infrastructure, and the absence of dedicated mandates, continue to impede progress. At WSSTL 2025, ICCT India will draw from its completed and ongoing research to stimulate discussions around regulatory reforms, infrastructure investments, and innovative service models essential for mainstreaming zero-emission buses across India's diverse transit landscape, enhancing not just accessibility but also delivering positive health and environmental outcomes.

Moderator: Mr. Bhaumik Gowande, ICCT India

Rapporteur: Mr. Harendra Pratap Singh, Research Scholar, IST Lab, IISc Bengaluru

Invited Speakers:

- Prof. Shalini Sinha, CEPT University
- Prof. Geetam Tiwari, IIT Delhi
- Prof. Aruna Sivakumar, Imperial College London
- Mr. Ravichandar V, Urbanist



25 JUNE | WSSTL-2025 WED DETAILED SCHEDULE

13:00 - 14:00



Dining Area, JN
Tata Auditorium

Lunch Break / Exhibition Visit

14:00 - 15:30



JN-Tata
Auditorium

Technical Session 1

Chair: Prof. Manoj M, IIT Delhi

Discussant: Mr Gautam Narula, Research Scholar, IST Lab, IISc Bengaluru

■ Paper ID: TSTL-2024-0041, 245535772

Stakeholder Perceptions Towards Potential Impact of Regional Rapid Transit System on Surrounding Land Characteristics in National Capital Region

Sharma, Kritika*; Pitale, Aditya Manish; Sadhukhan, Shubhajit

■ Paper ID: TSTL-2024-0049, 247392015

A Composite Index for Assessing Sustainability of Urban Transport Interventions

Nitwal, Rohit Singh*; Allirani, Hemanthini; Verma, Ashish

■ Paper ID: TSTL-2024-0048, 240537060

Effects of Residential Relocation and Modal Shift on Travel Satisfaction: Context of Hubli-Dharwad Cities in India

Doddamani, Chetan*; M, Manoj; Yamamoto, Toshiyuki

■ Paper ID: TSTL-2025-0004, 252879884

A Novel Transportation Quality of Life Index Framework for Evaluating Sustainable Transport Interventions

Allirani, Hemanthini; Verma, Ashish*

14:00 - 15:30



Seminar
Hall-A,
JN Tata
Auditorium

Technical Session 2

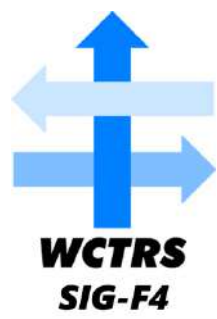
Chair: Dr. Mukti Advani, CSIR-CRRI, India

Discussant: Mr. Harendra Pratap Singh, Research Scholar, IST Lab, IISc Bengaluru

■ Paper ID: TSTL-2024-0055, 248720141

A Multidimensional Spectrum of Passenger Travel in Indian Cities

Guha, Ayushman*; Advani, Mukti; Puri, Khushboo; Sekhar, Ch. Ravi; Parida, Manoranjan



25 JUNE | WSSTL-2025 WED DETAILED SCHEDULE

14:00 - 15:30 Technical Session 2



 **Seminar
Hall-A,
JN Tata
Auditorium**

■ Paper ID: TSTL-2024-0086, 244514587

Redefining Livability through 15-Minute Neighborhoods in Bengaluru: An Approach to Enhance the Quality of Life Through Sustainable Mobility

Sarvadevabhatla, Pravalika*; Ramesh, Nithya; Hakhu, Arundhati

■ Paper ID: TSTL-2024-0088, 240913507

Adopting a Sustainable Ground Access: Mode Choice Behaviour before and after Metro integration at NSCBI Airport, Kolkata

Mondal, Debjyoti; swami, lalit; Ahmed, Mokaddes Ali*

■ Paper ID: TSTL-2024-0063, 244966128

Predictive Modelling of Vehicular Tailpipe Emissions Using Supervised Machine Learning Algorithms

D S, Reshmy*; Mathew, Binu Sara; K, Swarnalatha

15:30 - 16:00

 **Dining Area, JN
Tata Auditorium**

Tea & Coffee Break / Exhibition Visit

16:00 - 17:00



 **J N Tata
Auditorium**

GIZ Plenary Session 1

Could Living Lab. approach be helpful in overcoming Barriers to Active Mobility – Lessons from India and other countries

Active mobility in India presents an intriguing paradox: despite having robust policies and design specifications, effective implementation remains elusive. This panel discussion will explore the challenges that hinder progress and examine potential solutions through targeted questions.

Could a living lab methodology, testing real-world, innovative mobility solutions in a controlled yet flexible environment, provide the breakthrough needed? What are the global and Indian lessons? Might ward and zonal level plans offer a more localized approach, better addressing community specific needs compared to broader policies? Session will also discuss ways to strengthen existing policies to ensure that they are adaptable, enforceable, and truly reflective of on-ground realities.

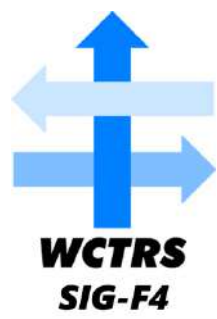
Furthermore, why does enforcement remain such a challenge? Is it due to institutional fragmentation, limited resources, or public resistance rooted in long standing motorized transport preferences? By drawing on success stories from select Indian and international cities, the discussion will highlight integrated governance models, creative funding mechanisms, and robust public engagement strategies. The goal is to bridge the gap between policy and practice, fostering a more inclusive, efficient, and sustainable urban mobility ecosystem in India.

Moderator: **Mr. Vivekanand Kotikalapudi, iDeCK**

Rapporteur: **Dr. Priyanka Das, Postdoctoral Fellow, IST Lab, IISc Bengaluru**

Invited Speakers:

- Ms. Neetu Anna Joseph, GIZ
- Ms. Patricia Immler, KfW Germany
- Ms. Manjula V, Former Commissioner, DULT
- Mr. Sathya Sankaran, Urban Morph
- Dr. Morgan Campbell, University of Leeds
- Ms. Aswathy Dilip, ITDP India



25 JUNE | WSSTL-2025 WED | DETAILED SCHEDULE

17:00 - 19:00

Technical Session 3



J N Tata Auditorium

Chair: Prof. Meghna Verma, RIM, Bangalore

Discussant: Mr. Santosh Kumar BV, Research Scholar, IST Lab, IISc Bengaluru

■ **Paper ID: TSTL-2024-0089, 240450518**

Understanding Women's Needs, Challenges, and Expectations from Urban Transport in India: A Focus Group Discussion Approach

Verma, Meghna*; Jain, Silky

■ **Paper ID: TSTL-2024-0060, 243217747**

Evaluating Hospital Transport System for Enhancing Safety and Sustainability in Healthcare Delivery

Acharya, Siddharth*; Yadav, Siddharth*; Pulipati, Sasanka

■ **Paper ID: TSTL-2024-0090, 244644504**

Functional to Emotional: Exploring the Role of Art in Enhancing Well-Being in Singapore's MRT stations

Ong Ker Shing, Joni*; Schroepfer, Thomas; Goh, Sushma

■ **Paper ID: TSTL-2024-0044, 242815333**

Review of social impact assessment in transport planning practices: Lessons from cities in England

Wan, Zhengyue; Titheridge, Helena*

■ **Paper ID: TSTL-2024-0059, 240098458**

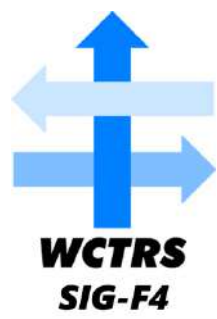
A Decision Framework to Prioritize Key Attributes of Transit-Oriented Development (TOD) using a Multi-Criteria Decision Making (MCDM) approach: An Indian Context

Manoj, BS; Goswami, Arkopal; Meena, Kapil Kumar*

■ **Paper ID: TSTL-2024-0047, 240009518**

Exploring the Hedonic Dimensions of Mental Well-Being in Commute Experiences: Insights from the Satisfaction with Travel Scale in the Indian Context

Das, Ann*; Verma, Ashish



25 JUNE
WED

WSSTL-2025

DETAILED SCHEDULE

17:00 - 19:00

Technical Session 4



Chair: Prof Shubhajit Sadhukhan, IIT Roorkee

Discussant: Ms. Maneesha B, Research Scholar, IST Lab, IISc Bengaluru

■ **Paper ID: TSTL-2024-0058, 243848297**

Feasibility assessment of last mile connectivity options for metro stations accessibility in Dwarka Sub-city, New Delhi

Umair, Mohd*; Faridi, Sadaf

■ **Paper ID: TSTL-2024-0075, 249015986**

Development of Route Based Assessment Framework for Lanes in Chattarpur Village, Delhi

Agarwal, Oshin*; Dhingra, Mohit; Jain, Deepty

■ **Paper ID: TSTL-2024-0081, 241259541**

The Nexus of Urban Street Design and Human Wellbeing: A Bibliometric Perspective

Mishra, Dhruvani*; Sadhukhan, Shubhajit

■ **Paper ID: TSTL-2024-0076, 243910983**

Developing Urban Sustainable Transportation-SDG Index for Evaluating Sustainable Transport Measures Towards Achieving Sustainable Development Goals

Nitwal, Rohit Singh*; Verma, Ashish

■ **Paper ID: TSTL-2024-0078, 246224028**

Perceived Resilience of Transport Systems During Urban Floods: Insights from a Comparative Focus Group Study

B, Maneesha*; Verma, Ashish

19:00 - 19:30

JN Tata Auditorium

Exhibition Visit



26 JUNE | WSSTL-2025 THU DETAILED SCHEDULE

08:30 - 09:00

 **J N Tata Auditorium**

Registration / Exhibition Visit

09:00 - 10:00



J N Tata Auditorium

Keynote Session 2: Prof. Maria Attard

What Affects Walking? Designing Action Research to Engage Citizens

There is ample evidence to suggest that policies aimed at increasing the modal share of walking and cycling are effective at reducing the environmental and health burdens of our transport systems. There is however a gap between the outputs of research and what happens on the ground, with policies and measures aimed to continue providing for the private car, rather than infrastructure for those engaging in active travel. One concern that is frequently observed is the focus on infrastructure alone as a means of engaging in walking as a travel mode. Metrics and indices have been developed over time to measure walkability and to propose interventions. However the perception of pedestrians and cyclists vary across geographies, cities and even users. Action research and the use of citizen science methodologies allow for a hands-on approach to study the elements that affect walking. This keynote lecture aims to highlight the potential and the opportunities offered by action research and participatory approaches to instigate the necessary behaviour change towards more sustainable mobility and more livable places. Examples of research that engages with the community will demonstrate the challenges but also the benefits of mutual learning from and by the community and researchers. In this manner, research is extended to the community, and if successful change can occur from bottom-up rather than top-down.

Keynote Session Chair: Prof. Geetam Tiwari, IIT Delhi

Rapporteur: Dr. Priyanka Das, Postdoctoral Fellow, IST Lab, IISc Bengaluru

10:00 - 10:30

 **Dining Area, JN Tata Auditorium**

Tea & Coffee Break / Exhibition Visit

10:30 - 11:30



J N Tata Auditorium

GIZ Plenary Session 2

Bridging Gaps for Inclusive Urban Transport Systems

Urban transport systems are crucial for access to education, employment, healthcare, and social opportunities. However, mobility needs differ across demographic groups, particularly between men and women. Women and marginalized gender groups often face unique challenges in accessing safe, affordable, and reliable transport, impacting their socio-economic participation.

Studies show women make more frequent, shorter, and multi-purpose trips, often combining caregiving with work or education related journeys. Yet, transport systems are primarily found to be gender neutral, and do not cater to the requirements of women and other marginalised groups.

A gender sensitive approach in urban mobility planning is vital for inclusive cities. This involves understanding how social norms, economic constraints, and security concerns influence travel behaviour, and implementing targeted interventions to address these barriers. The session will discuss the issues faced by women while travelling in public transport systems and will look into the best practices and initiatives of various organisations working on to address the same.

Moderator: Ms. Krishna Desai, GIZ

Rapporteur: Mr. Tanmay Ghosh, Postdoctoral Fellow, IST Lab, IISc Bengaluru

Invited Speakers:

- Prof. Marianne Vanderschuren, University of Cape Town
- Ms. Meera Sundarajan, MSSRF, Chennai
- Prof. Helena Titheridge, University College London
- Mr. Ramachandran R, BMTC
- Mr. Sebastian Ebert, KfW Germany
- Ms. Deepa Cholan, Commissioner, DULT



26 JUNE
THU

WSSTL-2025

DETAILED SCHEDULE

11:30 - 12:30



J N Tata Auditorium

K-RIDE Plenary Session

Seamless Journeys, Healthier Lives: Integrating Public Transport for Commuter Well-being

As cities expand and mobility needs become more complex, the integration of public transport modes is no longer a technical aspiration but a social necessity. This plenary session explores how seamless connectivity across buses, metros, suburban rail, shared mobility, and non-motorized transport can significantly enhance commuter well-being, not just in terms of convenience and efficiency, but also physical health, mental well-being, equity, and environmental sustainability. Globally, cities are moving toward multimodal integration aligning routes, fares, information systems, and interchanges to create a unified mobility experience. In India, this vision is taking shape through efforts like the National Common Mobility Card, city-level multimodal integration plans, and growing interest in Mobility-as-a-Service (MaaS). However, challenges remain in aligning institutional responsibilities, upgrading infrastructure, ensuring first and last-mile connectivity, and making integration equitable and accessible. This session brings together transport planners, mobility experts, health researchers, and policy practitioners to discuss the transformative potential of integrated public transport systems. Discussions will focus on how integration can reduce travel time and stress, improve physical activity through active first and last-mile access, minimize exposure to pollution, and make daily commutes more predictable and dignified, especially for vulnerable populations such as women, elderly, and low-income groups.

The session will also explore the role of data sharing, digital platforms, unified payment systems, and co-located hubs in building a commuter friendly ecosystem. Drawing from Indian and global experiences, the panel will offer insights into how well-integrated, affordable, and people-centric transport systems can redefine urban mobility and promote commuter well-being as a core objective not just a by-product of transport planning.

Moderator: **Prof. Manoranjan Parida, CSIR-CRRI**

Rapporteur: **Mr. Rohit Singh Nitwal, Research Scholar, IST Lab, IISc Bengaluru**

Invited Speakers:

- Shri. R.K. Singh, K-RIDE
- Mr. Maheshwar Rao, BMRCL (TBC)
- Prof. Guenter Emberger, TU Vienna
- Prof. Aruna Sivakumar, Imperial College London
- Prof. Sanjay Gupta, SPA Delhi

12:30 - 13:30



Dining Area, JN Tata Auditorium

Lunch Break / Exhibition Visit



26 JUNE THU | WSSTL-2025 DETAILED SCHEDULE

13:30 - 14:30 IST Lab Plenary Session 1



**JN Tata
Auditorium**

Aligning Transport and Urban Planning to Enhance Quality of Life

Urban transport and land-use planning are deeply intertwined forces that shape the way people live, work, move, and interact. This plenary session focuses on how the integration of transport and urban planning can dramatically influence the quality of life by affecting access to jobs and services, shaping social inclusion, determining exposure to pollution and noise, and influencing physical and mental health outcomes.

In many cities across the Global South, including India, rapid urbanization has led to fragmented development, long commutes, and rising inequalities in access to mobility and public services. Globally, however, there is a growing recognition that well-planned, transit-oriented, and compact urban development can create more livable, equitable, and sustainable cities. This session brings together urban planners, transport professionals, architects, and public health experts to examine how holistic planning can deliver better everyday experiences for urban residents.

Key discussions will revolve around transit-oriented development (TOD), the role of mixed-use neighbourhoods, walkability and public realm improvements, equitable housing and mobility access, and the impact of public transport accessibility on social well-being. The panel will explore strategies for aligning infrastructure investments with inclusive urban growth, promoting people-centric design, and reclaiming public spaces from vehicles to enhance community life.

Drawing from both Indian and international case studies, the session will emphasize that quality of life is not an abstract idea, it is embedded in the design of streets, transit systems, neighbourhoods, and governance. Ultimately, the session advocates for integrated planning approaches that place people, not vehicles, at the heart of city-making.

Moderator: Prof. Ashish Verma, IISc Bengaluru

Rapporteur: Mr. Gautam Narula, Research Scholar, IST Lab, IISc Bengaluru

Invited Speakers:

- Prof. Tina Pujara, IIT Roorkee
- Prof. Aruna Sivakumar, Imperial College London
- Prof. Marianne Vanderschuren, University of Cape Town
- Ms. Jaya Dhindhaw, WRI
- Prof. Milad Haghani, University of Melbourne



26 JUNE THU | WSSTL-2025 DETAILED SCHEDULE

14:30 - 15:30 WRI Plenary Session



 **J N Tata Auditorium**

Shift/Transport - From Congested and Vulnerable to Connected and Resilient

Indian cities are at a critical and complex crossroads. Several cities are facing severe “traffic congestion” and the increasing climate risks are straining the infrastructure further. In a rapidly developing urban India, much of the infrastructure is yet to be built and this will happen in the face of increasing climate risks.

Urban mobility planning in India therefore needs a critical shift from managing traffic to focusing on moving people by understanding movement patterns and creating more climate resilient infrastructure.

This session will deliberate on an apparatus that can truly connect people to opportunities, services and each other, whilst safeguarding our environment and infrastructure from potential climate change threats and impacts.

Moderator: **Mr. Dhawal Ashar / Srinivas Alavilli, WRI (TBC)**

Rapporteur: **Ms. Maneesha B, Research Scholar, IST Lab, IISc Bengaluru**

Invited speakers:

- Mr. Chetan Sodaye, WRI
- Ms. Preeti Gehlot, BBMP (TBC)
- Ms. Ashwini Bhide, MMRC (TBC)
- Prof. Geetam Tiwari, IIT Delhi (TBC)
- Prof. Ashish Verma, IISc Bengaluru
- Prof. Manoranjan Parida, CSIR-CRRI (TBC)
- Ms. Aswathy Dilip, ITDP
- Prof. Varameth Vichiensan, Kasetsart University
- Prof. Milad Haghani, University of Melbourne
- Ms. Anne Cremers, Consulate General of the Netherlands in Bangalore
- Mr. Rizwan Arshad, MLA (TBC)
- Mr. Shrimoyee Bhattacharya, WRI

15:30 - 16:00

 **Dining Area, JN Tata Auditorium**

Tea & Coffee Break / Exhibition Visit

16:00 - 17:00



 **J N Tata Auditorium**

IST Lab Plenary Session 2

Accessibility-based Measures for Urban & Transport Planning

Bengaluru’s rapid urbanization and economic growth have made it a global technology hub, but the city faces significant challenges in transportation accessibility. High costs of non-motorized and public transport modes, inefficient infrastructure, and inequitable access to employment, education, and services have created barriers for underserved populations. To address these challenges, this plenary session aims to bring together stakeholders to discuss solutions and develop actionable strategies for improving transportation accessibility in Bengaluru. The plenary session will start with three invited speakers, taking ten minutes each to present their perspectives on methods, data and policy implications of accessibility-measures for transport planning. This will be followed by a panel session discussing how such a vision for “accessibility-based urban and transport planning for the Bengaluru’s metropolitan region” can be achieved.

Moderator: **Prof. Aruna Sivakumar, Imperial College London**

Rapporteur: **Mr. Tanmay Ghosh, Postdoctoral Fellow, IST Lab, IISc Bengaluru**

Invited Speakers:

- Mr. Satya Arikutharam, Independent Consultant
- Prof. Geetam Tiwari, IIT Delhi
- Prof. Ahmed El-Geneidy, McGill University
- Mrs. Manjula V., Former Commissioner, DULT
- Mr. Sooraj EM, ITDP India



26 JUNE
THU

WSSTL-2025

DETAILED SCHEDULE

17:00 - 17:30



JN Tata
Auditorium

Exhibition Visit

17:00 - 19:00



Starts from
JN Tata
Auditorium

Heritage Tours by Walking & Cycling

■ **Wander through Malleshwaram: A Walk Tour**

This walking tour invites you to explore the neighbourhood's deep historical roots and cultural significance. Stroll through the bustling markets and immerse yourself in the local history. The Malleshwaram Hogona initiative, a street art project by 13 Indian artists, was created to foster a safer, more inclusive environment, contributing to the neighbourhood's dynamic atmosphere.

■ **Pedal Through IISc: A Heritage Cycle Tour**

Discover the campus's natural beauty and architectural charm while engaging in conversations around transport, climate, and livability.



27 JUNE

FRI

WSSTL-2025

DETAILED SCHEDULE

08:30 - 09:00

 **J N Tata Auditorium**

Registration / Exhibition Visit

09:00 - 10:00



 **J N Tata Auditorium**

Keynote Session 3: Prof. Ahmed El-Geneidy

How Daily Travel Contributes to Quality of Life: Lessons from the Canadian Context

Research and practice have long focused on developing and implementing quality of life indicators to prioritize well-being in decision-making. Tools and methods for evaluating subjective well-being have gained significant traction in recent decades, with travel recognized as one of the many dimensions influencing overall well-being. However, many of these measures remain overly generic and indirect, lacking the nuance needed to address the diverse needs of different populations. This talk will try to offer a deeper understanding of the travel-related factors influencing quality of life, which could lead to more accurate assessments of travel impacts on well-being.

Keynote Session Chair: Shri Jaideep, OSD, MoHUA

Rapporteur: Ms. Maneesha B, Research Scholar, IST Lab, IISc Bengaluru

10:00 - 10:30

 **Dining Area, JN Tata Auditorium**

Tea & Coffee Break / Exhibition Visit

10:30 - 11:30



 **J N Tata Auditorium**

BeST-Biocon Plenary Session

Public Health and Sustainable Mobility

This session explores the critical intersections between sustainable transport systems and public health, positioning mobility not just as a matter of infrastructure, but as a foundational determinant of health. As urban population expands and environmental pressures intensify, the way people move through cities has direct implications for physical, mental, and social well-being.

Public health in transportation extends beyond reducing traffic accidents or pollution; it encompasses how systems promote or inhibit daily physical activity, emotional resilience, and equitable access to essential services. Active modes of travel, such as walking and cycling, support cardiovascular health, reduce obesity, and mitigate air pollution-related illnesses. At the same time, safe, inclusive, and accessible public transit can ease mental stress, reduce exposure to environmental hazards, and enhance social connectedness.

The session will highlight evidence on how long commutes, poor infrastructure, and transport-related emissions contribute to rising health disparities, particularly among vulnerable populations. It will also examine how thoughtful transport design can improve health equity by increasing access to healthcare, education, and employment. By centering public health outcomes in the evaluation and design of sustainable mobility systems, the session aims to reframe transport not only as a tool for environmental sustainability but as a lever for improving overall population well-being. Through interdisciplinary perspectives, the session will emphasize the urgent need to align transport planning with public health goals to create cities that are not only mobile but measurably healthier and more inclusive.

Moderator: Prof. Prabhdeep Kaur, IISc Bengaluru

Rapporteur: Ms. Ann Das, Research Scholar, IST Lab, IISc Bengaluru

Invited Speakers:

- Prof. Aruna Sivakumar, Imperial College London
- Prof. Ashish Verma, IISc, Bengaluru
- Prof. Marianne Vanderschuren, University of Cape Town
- Prof. Tina Pujara, IIT Roorkee
- Dr. Pradeep B S, NIMHANS
- Mr. Krishnan Srinivasan, World Bank
- Dr. Anupama Shetty, Biocon Foundation



27 JUNE
FRI

WSSTL-2025

DETAILED SCHEDULE

11:30 - 12:30



J N Tata Auditorium

IST Lab Plenary Session 3

How Technology Based Sustainable Mobility Solutions Can Contribute to Well-being

Technological advancements in transportation are significantly enhancing quality of life by making mobility cleaner, safer, more efficient, and more inclusive. Sustainable transport technologies, such as electric vehicles (EVs), hydrogen fuel-cell buses, and renewable energy-powered trains, are reducing air pollution and carbon emissions, directly improving public health and environmental quality. These innovations are central to creating greener, more livable cities. Other smart technologies are also transforming how people move. Intelligent Transport Systems (ITS), including adaptive traffic signals, congestion pricing, and real-time route optimization, reduce traffic jams, lower stress, and cut down travel times. Collectively, these technologies contribute to a higher quality of life by promoting equitable access, cleaner environments, reduced travel stress, and safer streets, laying the foundation for healthier, more resilient, and human-centered communities. The session will explore how emerging mobility technologies, when thoughtfully implemented, can go beyond solving transport challenges to actively enhance quality of life. It will focus on how innovations in clean energy, digital integration, and inclusive design can transform transport systems into enablers of well-being, equity, and urban resilience. Ultimately, the session aims to advance a vision where smarter mobility means not just moving better, but living better in cleaner, safer, and more connected communities.

Moderator: **Prof. Digvijay S Pawar, IIT Hyderabad, India**

Rapporteur: **Mr. Santhosh Kumar B V, Research Scholar, IST Lab, IISc Bengaluru**

Invited Speakers:

- Mr. Venkata Chunduru, Arcadis
- Mr. Saurabh Kasturia, Street Surge Technologies
- Dr. Mukti Advani, CSIR-CRRI
- Shri Jaideep, MoHUA

12:30 - 13:30



Dining Area, J N Tata Auditorium

Lunch Break / Exhibition Visit



27 JUNE | WSSTL-2025 FRI DETAILED SCHEDULE

13:30 - 14:30



JN Tata Auditorium

AM-CoE Plenary Session

Pedalling Progress: Advancing Active Mobility for Sustainable Cities

As urban areas grapple with increasing congestion, air pollution, carbon emissions, and sedentary lifestyles, promoting active mobility – walking, cycling, and other non-motorized modes–has become a critical imperative. Active mobility not only contributes to cleaner, greener, and more resilient cities but also enhances public health, accessibility, and social equity. This plenary session explores how active mobility can be mainstreamed into urban transport systems, transforming streets into vibrant, people-friendly spaces.

The session brings together a unique mix of international and local voices, including representatives from the Dutch Consulate General, renowned for the Netherlands' global leadership in cycling infrastructure and culture, and Indian Cycle Mayors, who are driving grassroots change in diverse Indian cities. Together, they will present a compelling narrative on how policy, design, culture, and community engagement intersect to enable a shift toward active mobility.

While Dutch cities exemplify long-term planning, integration with public transport, and inclusive design, Indian cities are at a pivotal moment, reimagining streets, experimenting with tactical urbanism, and nurturing citizen-led cycling movements. The panel will explore how Indian cities can adapt international best practices to local contexts, considering challenges such as limited infrastructure, road safety concerns, and behavioural barriers.

Key themes include creating continuous and safe networks for pedestrians and cyclists, integrating active modes with public transport, using data and technology for planning, and engaging citizens to foster cultural shifts. The session will also touch on the co-benefits of active mobility, such as reduced emissions, economic accessibility, and improved urban public spaces.

Ultimately, this session aims to build a shared vision for cities where walking and cycling are not only viable but preferred and celebrated choices, supporting the broader goals of sustainability, health, and livability.

Moderator: Mr. Sathya Sankaran, Urban Morph

Rapporteur: Mr. Harendra Pratap Singh, Research Scholar, IST Lab, IISc Bengaluru

Invited Speakers:

- Mr. Ewout De Wit, Consulate General of the Netherlands in Bangalore
- Dr. Morgan Campbell, University of Leeds
- Prof. Ashish Verma, IISc Bengaluru
- Prof. Milad Haghani, University of Melbourne



27 JUNE | WSSTL-2025 FRI DETAILED SCHEDULE

14:30 - 15:30



J N Tata Auditorium

Uber Plenary Session

Towards a Livable Bengaluru: Addressing Congestion through Connectivity and Care-driven Urban Planning

Transport is more than movement; it directly shapes quality of life. In India's metro cities, commuting delays and fragmented systems lead to lost productivity, rising emissions, and poor mental health. Urban workers spend over two hours daily in traffic, with Bengaluru drivers losing 132 hours a year to congestion. Seamless first and last-mile connectivity is essential to making public transport truly accessible and efficient.

This panel explores how integrated and demand-responsive systems can reduce travel burdens and improve well-being. Transport gaps particularly affect women, who often travel during off-peak hours, with children, and across multiple stops. When mobility solutions fail to reflect these patterns, women's employment options and mental health suffer.

Private sector innovations like app-based ridesharing and on-demand mobility can bridge service gaps, especially in areas underserved by traditional transit. Studies show ridesharing could reduce car volume by a third, acting as an effective feeder to public transport.

Sustainability must be central to this shift. Electric mobility, especially EV bike taxi scheme, can reduce emissions and support affordable, short-distance travel. As India moves to decarbonize cities, promoting EVs for first and last-mile options also foster local green ecosystems.

The panel will share data, insights, and collaborative models to build people-centric transport systems.

Moderator: **Prof. Ashish Verma, IISc Bengaluru**

Rapporteur: **Mr. Rohit Singh Nitwal, Research Scholar, IST Lab, IISc Bengaluru**

Invited speakers:

- Mr. Tejasvi Surya, Member of Parliament
- Mr. Sanjay Chadha, Uber India and South Asia
- Prof. Guenter Emberger, TU Vienna
- Dr. Shalini Rajneesh, Chief Secretary, Government of Karnataka (TBC)
- Prof. Varameth Vichiensan, Kasetsart University
- Mr. Gaurav Gupta, Additional Chief Secretary to Government, Energy Department (TBC)
- Mr. Raghavan Vishwanath, KPMG India
- Prof. Digvijay S Pawar, IIT Hyderabad
- Mr. Maheshwar Rao, BMRCL (TBC)

15:30 - 16:00



Dining Area, JN Tata Auditorium

Tea & Coffee Break / Exhibition Visit



27 JUNE
FRI

WSSTL-2025

DETAILED SCHEDULE

16:00 - 17:00

DPIIT Plenary Session



J N Tata
Auditorium

Institutional Pathways to Sustainable and Livable Cities

Institutions are fundamental to shaping the trajectory of urban development. Achieving sustainability and livability in cities requires more than visionary planning, it demands robust institutional mechanisms that can facilitate coordination, accountability, innovation, and inclusiveness. This plenary session will delve into the critical role of institutions in enabling and sustaining transformative urban change.

The discussion will focus on governance structures, legal and regulatory frameworks, inter-agency coordination, and participatory governance as key enablers of effective urban policy implementation. In the Indian context, national initiatives like PM Gati Shakti, National Master Plan for Multimodal Connectivity and the National Logistics Policy (NLP), have redefined institutional coordination across infrastructure, mobility, and logistics. These reforms showcase how integrated data systems, unified planning, and synchronized execution can drive sustainability and improve the quality of life in urban regions. Institutional mechanisms are at the heart of transforming urban spaces into sustainable and livable cities. With PM Gati Shakti expanding to the district level through the Area Development Approach, as directed by the Hon'ble Prime Minister, greater emphasis is being placed on integrated planning and the development of social infrastructure. This paradigm shift supports more holistic and inclusive urban growth. This plenary session explores how governance systems across local, regional, and national levels, can shape inclusive, resilient, and environmentally responsible urban futures. Drawing on experiences from India and around the world, the session examines how institutional frameworks can enable coordinated planning, efficient service delivery, citizen participation, and long-term sustainability. From India's Smart Cities Mission and AMRUT to integrated planning efforts in cities across Europe, Latin America, and Southeast Asia, the session compares diverse models of urban governance and highlight the innovations and reforms that have driven real change. Key focus areas include inter-agency collaboration, decentralization, multi-level governance, policy coherence, and institutional capacity building.

Bringing together Indian and international experts, city officials, and researchers, this session fosters dialogue on the successes, limitations, and adaptability of various institutional arrangements. It also reflects on how global frameworks—such as the Sustainable Development Goals (SDGs) and the New Urban Agenda are being localized in different contexts. The session aims to generate actionable insights for strengthening institutions as enablers of sustainable urban transformation, tailored to the unique social, political, and economic realities of different regions. Key topics include multi-level governance, institutional capacity-building, stakeholder engagement, and the alignment of urban planning with climate and equity goals. Special emphasis has been placed on understanding how institutions can bridge the gap between policy intent and on-ground impact, particularly in rapidly urbanizing regions.

By fostering dialogue across disciplines and sectors, this session aims to identify actionable strategies for strengthening institutional foundations that support cities to become more inclusive, resilient, and environmentally responsible ensuring a better quality of life for current and future generations.

Moderator: Dr. Jivisha Joshi Gangopadhyay, DPIIT

Rapporteur: Mr. Gautam Narula, Research Scholar, IST Lab, IISc Bengaluru

Invited speakers:

- Mrs. Manjula V, Former Commissioner, DULT
- Prof. Maria Attard, University of Malta
- Prof. Sanjay Gupta, SPA Delhi
- Dr. Ch. Ravi Sekhar, CSIR - CRII
- Mr. Mukund Kumar Sinha, KfW Frankfurt
- Ms. Sushma Goh, Singapore Land Transport Authority
- Mrs. Deepa Cholan, Commissioner, DULT



27 JUNE
FRI

WSSTL-2025

DETAILED SCHEDULE

17:00 - 18:30



Valedictory Session

 **JN Tata Auditorium**

18:30 - 19:00



High Tea / Exhibition Visit

 **JN Tata Auditorium**

