KSCSTE - NATPAC

Golden Jubilee (1976-2026)

International Conference on

Transforming Transport for Safety and Sustainability (TRANSFORM 2026)

18 - 19 December 2026



About NATPAC

The National Transportation Planning and Research Centre (NATPAC), established in 1976 by the Government of Keralam, is a premier institution dedicated to addressing transportation challenges through research, innovation and policy support.

Reconstituted as an autonomous R&D centre in 1982, NATPAC has been functioning under the Kerala State Council for Science, Technology and Environment (KSCSTE) since 2002, aligning its activities with the State's broader science and technology initiatives.

Over the past five decades, NATPAC has played a pivotal role in shaping Keralam's transport landscape, contributing to major initiatives in highway development, urban mobility, water transport, traffic safety and infrastructure planning. The institution's efforts have significantly influenced policy decisions and participation in nationally significant projects.

Conference Overview

The International Conference on Transforming Transport for Safety and Sustainability (TRANSFORM 2026) represents a significant step towards advancing future-ready transportation systems. Organised as part of the Golden Jubilee celebrations of KSCSTE-NATPAC, the conference reflects the institute's commitment to research excellence, policy support and innovation.

TRANSFORM 2026 serves as a multidisciplinary platform that brings together researchers, policymakers, practitioners, industry leaders, academicians and international experts. It aims to foster dialogue on key transportation challenges, with a strong emphasis on sustainability, safety, resilience and technological integration, while promoting collaboration across sectors to generate actionable and policy-relevant insights. A key objective of the conference is to bridge the gap between research and practice by encouraging contributions that highlight applied methodologies, case studies and implementation-driven solutions. Emphasis is placed on approaches that are scalable, context-sensitive and capable of delivering tangible outcomes.

The conference covers a broad and integrated spectrum of topics, including transportation planning and operations, traffic engineering and safety, infrastructure systems, water-based transport and emerging mobility technologies. It also incorporates critical cross-cutting dimensions such as multimodal integration, transport economics and policy, logistics, climate resilience, environmental sustainability, social equity, gender inclusivity, energy efficiency and public health, ensuring a holistic perspective on mobility systems. Special attention is given to addressing regional transportation challenges within a global context. In regions like Keralam, characterised by high density, mixed traffic conditions, and climate vulnerabilities, the conference facilitates the adaptation of global best practices to local needs, enabling the development of practical and innovative solutions. *The conference themes address the United Nations Sustainable Development Goals (SDGs) 3, 5, 7, 9, 10, 11 and 13.* Overall, TRANSFORM 2026 aims to support informed decision-making and contribute to the development of efficient, inclusive, safe, and sustainable transportation systems through a strong integration of research, policy and practice.

Conference Highlights

- **Knowledge Sharing/ Networking**
- **Plenary Session/ Keynote Session/ Memorial Lecture**
- **Publications in Springer Proceedings/ Indexed Journal**
- **Best Paper and Poster Awards**
- **Exhibitions & Display Zone**

Panel Discussion - Transforming Mobility in Keralam for Safety and Sustainability: Vision 2047

Call for Papers

Academicians, researchers, students and practising professionals are invited to submit full papers aligned with the themes of TRANSFORM 2026.

Full Paper Submission: Authors are encouraged to submit original, unpublished full-length papers that clearly present the research objectives, methodology, analysis, results and key contributions.

Submission Process: All submitted full papers will undergo an initial screening followed by a rigorous peer-review process to assess their quality, originality and relevance to the conference themes. Accepted papers will be included in Scopus-indexed conference proceedings. Selected high-quality papers may also be considered for possible journal publication.

Industry Track-Extended Abstract Submission: Industry professionals may submit extended abstracts highlighting practical applications, case studies and innovations. The Lead and Corresponding Author for this track must be from the industry.

Authors are required to follow the prescribed formatting guidelines and submission instructions as provided on the conference website.

Conference Themes

THEME I: Transportation Planning

- Public Transport Planning, Operations & Management
- Urban, Regional & Land Use-Transport Integration
- Travel Behaviour Analysis & Demand Forecasting
- Sustainable Transportation & Non-Motorised Transport (NMT)
- Freight Transport, Logistics & Micromobility
- Transport Optimisation & Network Analysis
- Evacuation Planning & Resilience
- Mobility as a Service (MaaS) & Multimodal Integration
- Transport Economics, Policy & Pricing
- Social Equity, Gender, Environment, Energy & Health in Transport

THEME II : Traffic Engineering and Safety

- Traffic Flow Theory, Modelling & Simulation
- Capacity Analysis & Level of Service (LOS)
- Traffic Operations, Control & Management
- Real-time Traffic Data & Analysis
- Driver Behaviour & Traffic Safety
- Crash Analysis, Modelling & Reconstruction
- Vulnerable Road Users & Safety Assessment
- Design of Intersections & Traffic Facilities
- Traffic Calming Measures & Enforcement
- Computer Vision & Data-driven Traffic Applications

THEME III: Highway Infrastructure

- Pavement Materials, Characterisation & Sustainable Materials
- Pavement Design, Construction & Performance
- Pavement Evaluation, Management & Maintenance
- Geometric Design, Consistency & Transportation Geotechnics
- Bridges & Culverts: Design, Construction & Maintenance
- Sustainable Structural Systems in Transportation Infrastructure
- Structural Health Monitoring of Bridges and Culverts
- Performance Evaluation & Rehabilitation of Transportation Structures

THEME IV: Water Transportation

- Urban Water Transport & Passenger Mobility
- Port, Harbour & Terminal Planning
- Terminal Design & Infrastructure
- Operations, Safety & Navigation Systems
- Sustainable & Green Water Transport
- Climate Change Impacts & Resilience of Water Transport Systems
- Freight Logistics & Supply Chain in Water Transport

THEME V: Smart and Digital Transportation

- Railways, High-Speed Rail & Air Transport
- UAVs, Drones & Emerging Transport Technologies
- Electric, Hybrid & Alternative Fuel Vehicles
- Connected & Autonomous Vehicles (CAVs)
- Intelligent Transportation Systems (ITS)
- IoT, Big Data & Artificial Intelligence in Transportation
- GIS, Remote Sensing & Digital Twins
- VR/AR Applications in Transportation

Note: Papers meeting the broad areas of the conference themes would also be considered.

Important Dates

Last Date of Full-Length Paper Submission	25th September, 2026
Paper Acceptance Notification with Reviewer Comments	10th November, 2026
Revised Full Paper Submission	25th November, 2026
Early Bird Registration	1st - 25th November, 2026
Last Date of Regular Registration	10th December, 2026
Conference Dates	18th -19th December, 2026

Registration

Conference delegates are requested to register before the conference date, to avail the Regular fee and Early Bird registration fee

Registration Category	Participants from India (incl. GST)		Participants from outside India	
	Early Bird Fee	Regular Fee*	Early Bird Fee	Regular Fee*
UG/PG Student	INR 2000	INR 2500	USD 50	USD 60
Research Scholar/ Project Associate	INR 3000	INR 3500	USD 60	USD 75
Faculty/ Scientist	INR 5000	INR 6000	USD 125	USD 150
Government/ Industry Professionals/ Others	INR 5000		USD 150	USD 175

***Note: On-site registration at conference venue will be 20% extra on Regular fee shown above.**
Fee for accompanying person is INR 2,000 inclusive of GST (USD 50 for persons from outside India) which includes access to all conference sessions, lunch, high tea and access to the cultural evening with dinner.

Knowledge Partners

Venue

Marian Engineering College
Menamkulam, Kazhakoottam, Thiruvananthapuram, Keralam

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Sree Padmanabhaswamy Temple


Napier Museum & Zoo


Padmanabhapuram Palace


Kovalam Beach


Neyyar Dam


Varkala


Ponmudi


Jatayu Earth Centre


Aazhimala Shiva Temple

Contact

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For more details: https://natpac.kerala.gov.in/TRANSFORM2026