ITS India Forum

Think Tank on Intelligent Transport Systems in India

About ITS INDIA Forum

This is a ==Think tank== to promote innovative technologies, proactive policies, awareness with capacity building, and collaboration among various stakeholders to forge a path toward India's transformation to *Viksit Bharat* by 2047.

- A ==nonprofit membership-based society==, diverse membership encompasses Government Ministries, Policymakers, Industries, Logistics, Academia, Start-ups, and Civil societies.

- The ==background stems== from rising safety concerns, congestion, uncertainties, increasing transportation complexities, and higher logistics costs.

- There is an ==urgent need for an integrated platform== for collaborative efforts by all stakeholders.

ITS INDIA

Mission

- ITS INDIA Forum ==explores and promotes awareness== about rapidly growing applications of AI, ML, IoT, Cameras, ADAS, 5G/6G, Telematics, Cloud computing, etc., in the transportation sector to resolve rising safety concerns, traffic congestion, uncertainties, increasing transportation complexities, and high logistics costs and optimize the transportation network.

- **Promoting research and innovations** in the field of ITS with Academia.

- **Connecting** industries, manufacturers & traders, SIs, transporters, software providers, network operators, vehicle OEMs, Government, and regulatory bodies on a single platform to develop best practices, quality standards, and policies collaboratively.

- **Raise awareness and Skilling on the ground** for effective & efficient use of ITS technologies.
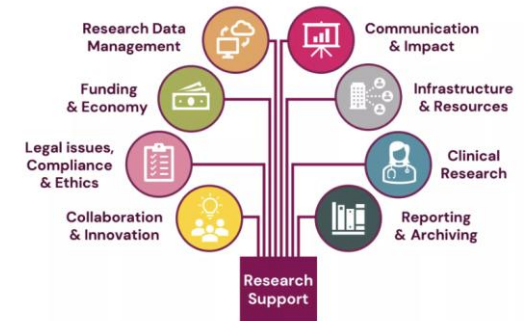
Key Result Areas

Policy Advocacy
and Awareness

Industry Collaboration
Global and local

Research Support &
Capacity Building

ITS
INDIA

Achievements

o ==Niti Aayog has entrusted ITS India== with the responsibility of evaluating and ==drafting India's Comprehensive National ITS policy framework==.

o Starting first ==Pilot Project of CV2X for providing green channel to ambulance at 15 signaled junction in Delhi.==

o ==Engaging leading Industries, academia, and government bodies in 10 Committees== to help draft bottom-up comprehensive policies for different verticals of ITS.

o Collaborative ==partnership with European Union ITS Forums and ITS Asia Pacific.==

o ==30+ Members in a short span==.
   (25 + from Industries, 5 Government bodies, and 3 IITs)

More achievements…..

o Developing an online "Know Your Safe Driving Score" platform like CIBIL Score.

o Assisting in drafting policy for GNSS-satellite-based tolling for India

o Led the Biggest-ever delegation from India to Intertraffic Amsterdam.

o Invitation for presentation by ITS AP for their Jakarta on 27 May 2024.

o India Pavilion at ITS World Congress in Dubai.

o Started skilling ground people for the latest ITS applications.

o Organized three webinars and published three articles.

ITS INDIA

ITS India at AITD - 2024
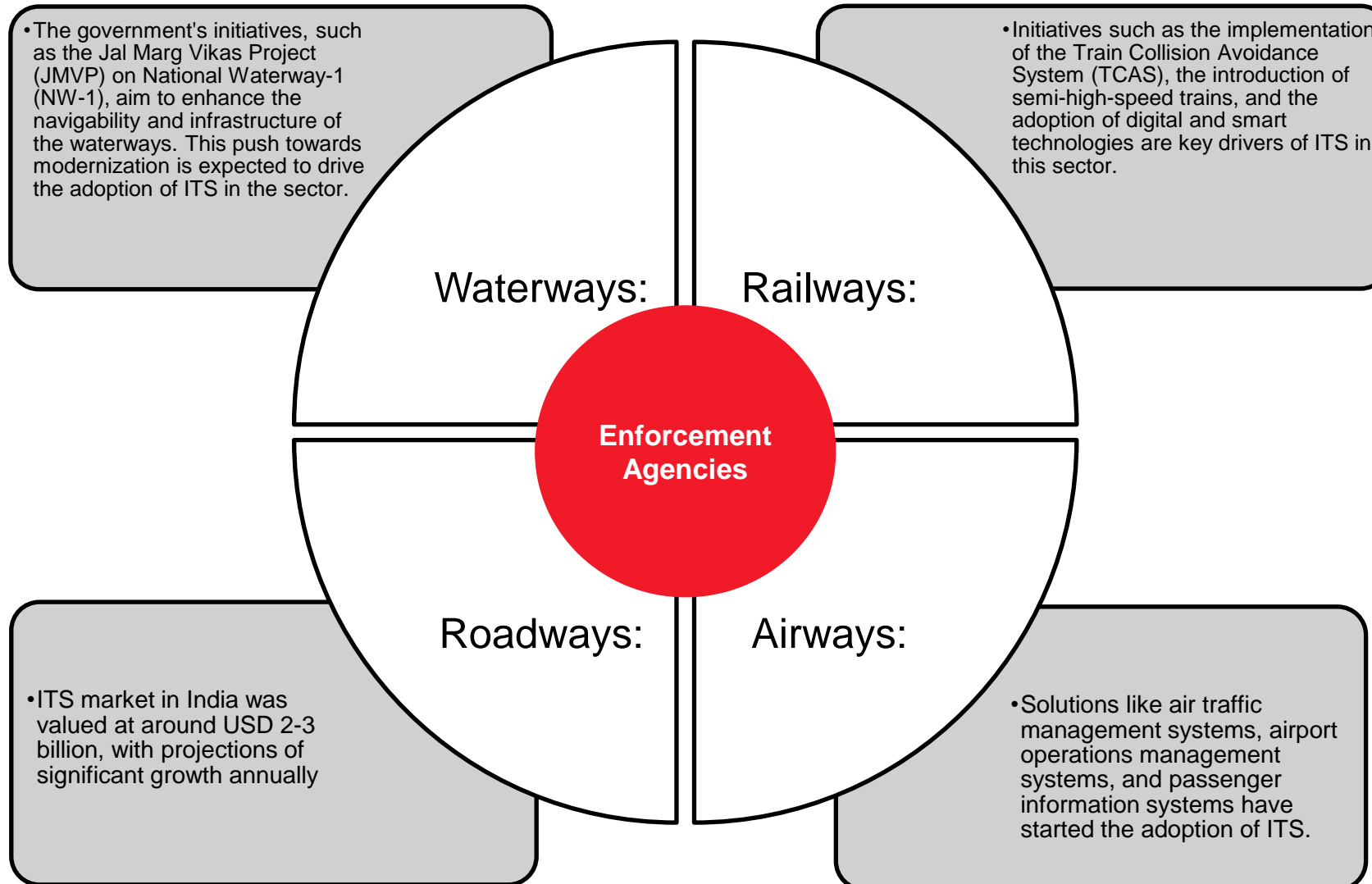
Organisational structure

- **Governing Council** – 11 members
  (industry leaders and senior govt officials on the Board of Governors)

- **Advisory Council** – 21 members
  (top industry leaders, veterans, and experts to be onboarded as Advisors)

- **Executive Council** – 5
  (Chairman–1, Vice Chairman–2, President–1, Vice President – 1)

- **Member Council** – All esteemed members of the Forum

ITS Industry in India

o <mark>ITS market in India is currently valued at USD 5 billion</mark> and is projected to grow at a <mark>CAGR of around 16% for the next five years.</mark>

o One hundred smart city projects, rapidly growing transportation and logistics, present excellent opportunities for leading players to innovate and drive growth.

o ATMS, ITMS, CV2X, Multimodal connectivity, Enhanced Surveillance systems, Cloud Computing, 5G/6G, and AI applications will be key drivers.

o The Government of India has <mark>prioritized ITS</mark> and <mark>enhanced spending on ITS</mark> projects.

o Investment in R & D in ITS has increased five times folds.

ITS Industries in India

• The government's initiatives, such as the Jal Marg Vikas Project (JMVP) on National Waterway-1 (NW-1), aim to enhance the navigability and infrastructure of the waterways. This push towards modernization is expected to drive the adoption of ITS in the sector.

• Initiatives such as the implementation of the Train Collision Avoidance System (TCAS), the introduction of semi-high-speed trains, and the adoption of digital and smart technologies are key drivers of ITS in this sector.

Waterways:

Railways:

Enforcement Agencies

Roadways:

Airways:

• ITS market in India was valued at around USD 2-3 billion, with projections of significant growth annually

• Solutions like air traffic management systems, airport operations management systems, and passenger information systems have started the adoption of ITS.

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Future Plans

- o Organize ITS INDIA Mega Event – 2024 in July/Aug 2024

- o Onboarding with state governments and enforcement agencies.

- o India Pavilion at ITS World Congress in Dubai.

- o Promote research on adopting more cutting-edge techs in ITS at IIT/CRRI.

- o Webinars, Podcasts, ITS Newsletters, and Research publications— monthly

- o Go-live Know Your Safe Driving Score platform

- o Submit draft Policy Framework of National ITS Policy to Niti Aayog.

- o Training programs –every month to 100 people at the project sites.

- o Membership drive – 100 Corporate members and 250 individual members

National ITS Policy

- ITS India Forum's milestone achievement includes recognition from NITI Aayog, India's premier think tank, to lead the drafting of the National ITS Policy.

- This recognition signifies a significant shift in India's approach to policy-making, emphasizing collaboration and expertise from diverse stakeholders in shaping the future of intelligent transportation systems.

- Our success in drafting the National ITS Policy relies on the active involvement of diverse stakeholders.

File No. – 1/5/2019-Tpt.
Government of India
NITI Aayog

NITI Bhawan, Parliament Street
New Delhi – 110001
Dt. – 09.04.2024

To,

Shri Akhilesh Srivastava
President
ITS India Forum

Sub.: **Your feedback and inputs on proposed Intelligent Transport System (ITS) Policy.**

Dear Sir,

As an organization committed to fostering sustainable development and technological advancement within India, NITI has developed a comprehensive ITS policy aimed at enhancing efficiency, safety, and accessibility within our transportation systems. This policy is the result of extensive research, stakeholder consultations, and input from experts in the field.
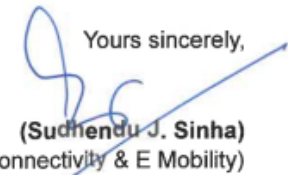
Recognizing the importance of collaboration and feedback from relevant stakeholders, we believe that the ITS India Forum is well-positioned to provide valuable insights and perspectives on our policy framework. Therefore, we kindly request that the Forum evaluate the policy document and provide us with any comments, suggestions, or recommendations for improvement.

We value the expertise and experience of the ITS India Forum members and believe that their input will greatly contribute to the effectiveness and applicability of our ITS policy. By working together, we can ensure that our transportation systems are equipped to meet the evolving needs of our society while also fostering innovation and sustainable growth.

Please find attached a copy of the National ITS Policy for your review. We would appreciate it if you could share your feedback or comments with regard to global ITS landscape, best global experiences, enablers required and way forward with us.

We look forward to receiving your valuable input and working together to advance the field of intelligent transportation systems in India.

Yours sincerely,

(Sudhendu J. Sinha)
Adviser (Infra Connectivity & E Mobility)
NITI Aayog

National ITS Policy

- We invited input and collaboration from:

  - **Government Agencies**: Ensuring policy alignment with national objectives and regulations.

  - **Industry Experts**: Providing insights into cutting-edge technologies and best practices and ground challenges.

  - **Academic Institutions**: Contributing research to informed policy decisions.

  - **Civil Society Organizations**: Representing public interests and advocating for inclusive and sustainable transportation solutions.

- Adopting a Bottom-up approach to address ground challenges and the evolving needs of mobility.

- Suggest at – https://www.itsindiaforum.com/draft-national-its-policy-framework

Committees by ITS India

Ministries involved in some of these committees:

सड़क परिवहन और राजमार्ग मंत्रालय
Ministry of Road Transport and Highways

Ministry of Electronics & Information Technology
Government of India

पत्तन,पोत परिवहन और जलमार्ग मंत्रालय
MINISTRY OF PORTS, SHIPPING AND WATERWAYS
GOVERNMENT OF INDIA

You can join on https://www.itsindiaforum.com/committee

Committees by ITS India

- Focused on a humanistic & sustainable approach to ITS solutions

  - Advance Traffic Management

  - Intelligent Traffic Information

  - Integrated and seamless user fee payment – FASTag, NCMC

  - Safety and convenience to user

| Policy framework for ATMS for smart Highways | ITMS for Urban/Smart Cities | Smart Parking Solutions | Smart Camera surveillance | Road Safety 2.0 ADAS & SDS |

Committees by ITS India

- Focused on Logistics & Multimodal Connectivity ITS solutions
  - Integrated ITS Policy Framework for the Nation
  - API integration protocols for seamless data flow from different Ministry
  - Last-mile availability to a logistic carrier
  - Safety and convenience to user

| ITS for Railways and Metro | ITS for Shipping Ports | ITS for Civil Aviation | ITS for Waterways | ITS Policy framework for Multimodal Connectivity |

Committees by ITS India

- Focused on Futuristic and Upcoming ITS solutions
  - Should be capable of seamless integration with the existing ITS Framework
  - Be ahead on the new tech curve and Make In India initiative
  - Industry's requirement-oriented research
  - Data Privacy and Cyber Security
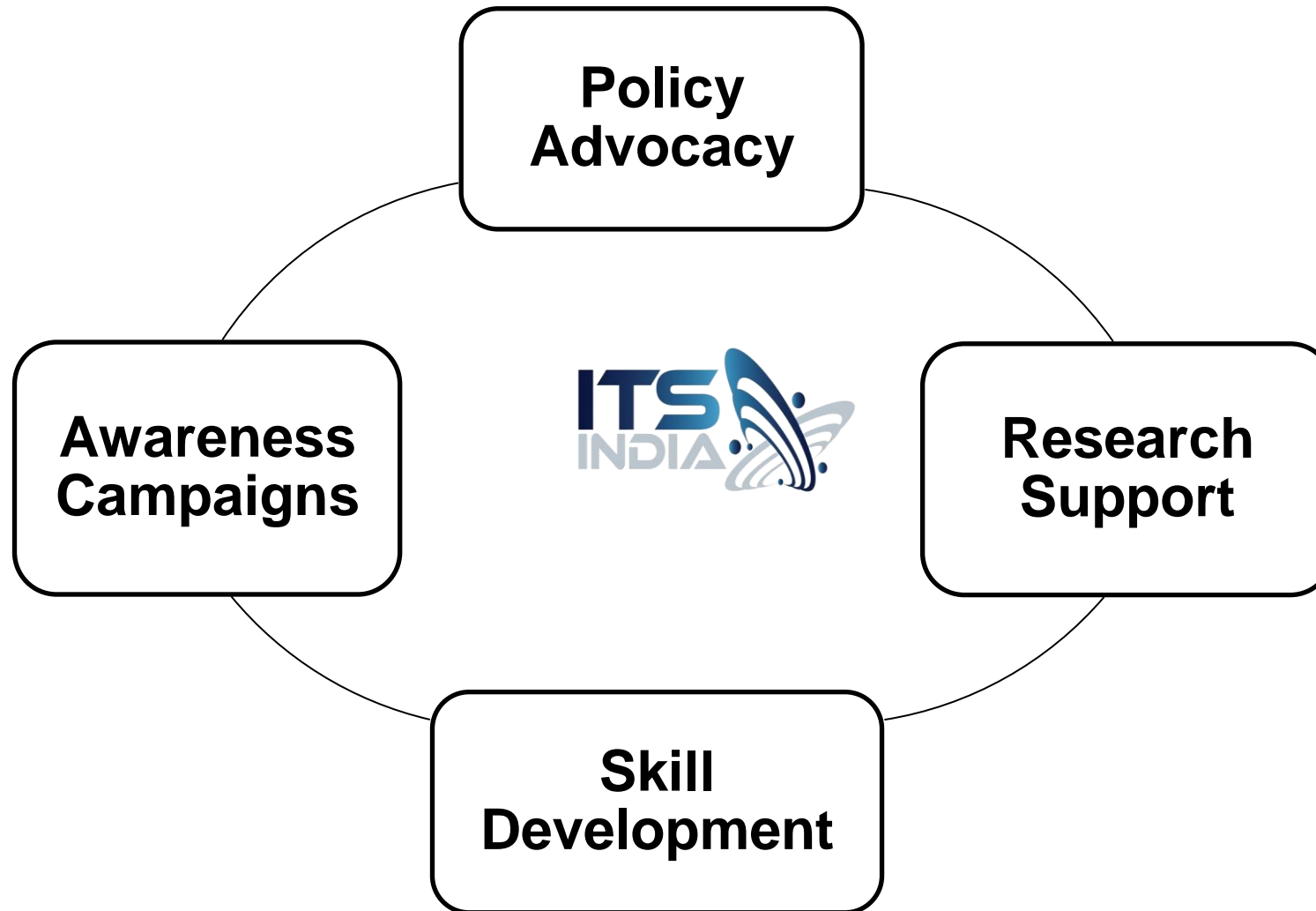
| CV2X, 5G/6G Connected vehicles | New age tolling solutions MLFF, GNSS | New Logistics Management Solutions | Drone and Air Taxi. | Cyber Security and data Privacy |

Working Pillars of ITS India Forum

THANK YOU

Know More at:

https://www.itsindiaforum.com/
or visit our social media pages