

AEC FORUM

GEOSPATIAL + BIM + DIGITAL TWIN

RESILIENT INFRASTRUCTURE THROUGH DIGITALIZATION: ENABLING VIKSIT BHARAT

21 - 22 AUGUST 2025

Vivanta, Dwarka, New Delhi, India

#AECForum2025

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ABOUT AEC FORUM 2025

The AEC Forum 2025, themed “**Resilient Infrastructure through Digitalization: Enabling Viksit Bharat**”, will explore how digital transformation can drive infrastructure growth across key sectors. It's a platform for stakeholders to collaborate, share insights, and chart a path toward a resilient and sustainable infrastructure ecosystem for Viksit Bharat.

India's AEC sector is critical to the economy, contributing 9% to GDP and employing over 50 million people. By 2030, it's expected to reach US\$ 1.4 trillion. However, aging infrastructure, climate, and rapid urbanisation are limiting its full potential, costing the country US\$ 100 billion annually.

BIM, Digital Twins, AI tools, and Geospatial Technologies can modernize infrastructure, reduce costs, and improve efficiency. According to NASSCOM these digital solutions are set to unlock US\$ 20-25 billion annually by 2025.

With government initiatives like the **National Infrastructure Pipeline, National Geospatial Mission** and the **Gati Shakti Master Plan**, digital adoption is accelerating to address urgent challenges like urbanization and water stress.

FORUM HIGHLIGHTS

350+ Delegates

150+ Organizations

100+ Speakers

25+ Sessions

FEATURED SEGMENT



Roads & Highways

- GIS and spatial analytics for route optimization & network planning
- Advanced surveying tools and techniques for accelerating highways construction
- Reality capture and earth observation for life cycle management
- BIM and geospatial for high altitude sustainable construction

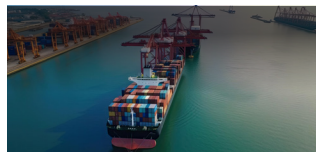


Railways and Metro

- Underground reality capture and geotechnical engineering for high speed rail
- Geospatial solutions for underground metro construction
- ITS & sensor technology for rail safety and asset management
- Digital Twin solutions for rail bridges and tunnels

TARGET AUDIENCE

- Government Authorities, PSUs, and Policymakers
- City Development Authorities and Municipalities
- Disaster Management Authorities and Environment Ministry Authorities
- National Mapping Agencies and Land Resource Development Authorities
- Infrastructure Developers and Investors
- Project Owners/Operators/Managers
- AEC Firms
- Consultants
- Development Banks/Investors
- Research and Academia
- Technology Providers/Users



Ports and Water Infrastructure

- GIS and spatial analytics optimizing loss reduction and water supply network
- Integrated BIM and hydraulic engineering design in water distribution
- Geospatial innovations in water supply management during disasters
- Harnessing GeoAI for efficient asset management of water networks



Airport, Buildings and Campuses

- Enhance navigation and experience with smart solutions for airports, buildings, campuses
- Implement advanced security systems, ensuring safe and efficient access management
- Optimize energy usage and operational efficiency with intelligent building solutions
- Design flexible environments that adapt to evolving technology and user needs

PROGRAM AGENDA

Day One - 21st August, Thursday

Time (IST)	Topic
0830 onwards	Registration
0900 - 0930	Welcome Tea/Coffee
0930 - 1100	Opening Plenary – Safe, Sustainable and Resilient Infrastructure through Digitalization
1100 - 1200	Plenary II – Geospatial + BIM + Digital Twins: Enabling Connected Infrastructure Systems
1200 - 1215	Tea/Coffee and Networking Break
1215 - 1300	Plenary III – Digital Twin Strategy: Policy, Institutional Readiness and Standardisation
1300 - 1400	Lunch
1400 - 1445	Plenary IV – Roads and Highways
1445 - 1530	Plenary V – Railways and Metro
1530 - 1600	Tea/Coffee and Networking Break
1600 - 1645	Plenary VI – Airports
1645 - 1730	Plenary VII – Ports and Water Infrastructure
1730 - 1815	Special Conversation – Connected Digital Platforms for Infrastructure Lifecycle Planning
1815 onwards	Networking Reception followed by AEC Forum Excellence Awards

Day Two - 22nd August, Friday

DEEP-DIVE SESSIONS				
Hall	Hall A	Hall B	Hall C	Hall D
Time (Hrs)	Roads & Highways	Railway & Metro	Port & Water Infrastructure	Airport & Building Campus
0930 - 1030	Streamlining Land Acquisition Processes for Highway Projects with Geospatial and Digital Solutions	Integrating Real-Time Data, AI & Predictive Analytics for Enhanced Safety and Asset Management	Integrating BIM and Digital Twin for Water Infrastructure Planning & Maintenance	Digital Solutions for Sustainable Airport Infrastructure Development
1030 - 1130	Revitalizing Brownfield Roads: BIM, Digital Twin, AI/ML for Enhanced Upgrades of Highways	Optimizing Rail Network Efficiency with Geospatial Data and Digital Twin	Enhancing Water Network Efficiency with GeoAI & Predictive Analytics	Resilient Airport Operations: Digital Twins for Real-Time Monitoring & Maintenance
1130 - 1200	Networking Break			
1200 - 1300	Boosting Road Safety and Environment Clearances with AI and Real-Time Data	BIM & 4IR Technologies for Streamlined and Coordinated Metro Project Planning	Leveraging Automation and Digital Solutions for Optimised Port Operations	Modular Construction & Prefabrication: The Digital Advantage in Campus & Building Projects
1300 - 1400	Lunch			
1400 - 1430	Fireside Chat			
1430 - 1530	Multimodal Connectivity with Digital Infrastructure Integration	Transforming Metro Builds with Digital Twins and Smart Automation	Building Resilient Ports: Sagarmala, Multimodal Connectivity, and Digital Innovation	Optimizing Building & Campus Infrastructure with IoT and Advanced Technologies

AEC FORUM – EXCELLENCE AWARDS

The AEC Forum Excellence Awards recognize visionary individuals and pioneering organizations driving innovation, breaking barriers, and delivering transformative solutions to pressing challenges in the architecture, engineering, and construction sector. These awards celebrate outstanding achievements that leave a lasting impact on society, highlighting exemplary contributions that set new benchmarks of excellence and innovation.

Share your nominations on: awards@aec-forum.com

Deadline: 15th July, 2025



BE HEARD: SHARE YOUR INSIGHTS!

SUBMIT YOUR ABSTRACT

Elevate your project based contribution to shape the future of knowledge, drive innovation, and play a pivotal role in enhancing India's infrastructure for tomorrow.

Share your abstracts here: papers@aec-forum.com

Deadline: 15th July, 2025



REGISTRATION FEE

Delegate Category	REGULAR DELEGATE FEES			
	Early Bird Till 30th June		From 1st July	
	INDIA (INR)	OVERSEAS (USD)	INDIA (INR)	OVERSEAS (USD)
Industry	20000	375	24000	475
Govt. /Academia	10000	300	12000	400
Startup / NGO	6000	250	8000	350
Students	5000	200	5000	200

Note: Inclusive of taxes

VENUE

Vivanta, Dwarka, New Delhi
Service Rd, Sector 21, Dwarka
New Delhi, Delhi, 110075



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