

ADBI-IIT Madras Workshop

Strategies for adoption of Digital Technologies for skill development and project management in Construction
(In-Person)

Date: 6th May 2024
Time: 09:00 – 17:30 IST
Venue: Hall 2, ICSR, IIT Madras
Centre for Industrial Consultancy and Sponsored Research
Indian Institute of Technology, Chennai
Tamil Nadu 600036, India

Organizing Partners

Asian Development Bank Institute (ADBI) Indian Institute of Technology, Madras (IITM)

Supporting partners

Centre of Excellence on Technologies for Low Carbon and Lean Construction (TLC2)

Background

India is forecasted to be the largest growing construction market globally. However, India's construction sector continues to grapple with challenges such as time and cost overruns. Such issues are underpinned by systemic issues such as the lack of skilled workforce and adoption of digital technologies, despite the proven positive effect of digital technologies in aiding pressing construction industry issues. To promote rapid growth of digital technologies in the construction sector, this workshop draws lessons from practical cases of applying information technology to design, construct, and maintain civil infrastructure in the Indian context.

Time (IST)	Agenda
09:00	Registrations
09:30 - 09:45	Opening Remarks by Dr. K E Seetharam, Senior Consulting Specialist, ADBI
	& Professor Nikhil Bugalia, IIT Madras
09:45 – 10:45	Panel Discussion: Solutions and Challenges in Digital Technology
	Adoption for Construction Sector
	Moderator – Professor SenthilKumar, IIT Palakkad
	Panelists
	Bangalore Sreevatsan Mukund , Head BIM- L&T Construction
	Kubaloy Kundu, DGM/Planning, National Capital Region Transport Corporation
	Siddharth S Kumar, Founder and CEO, Eartheon
	Kalyan Vaidyanathan, Director Business Development, Bentley Systems India
	Q&A from the Audience

10:45 – 11:30	Keynote Address: Transformational Digital Initiative at NCRTC
	M. Rajat Gosai Group General Manager (Planning) NCRTC
	Interactive Discussion
11:30 - 12:00	Break
12:00 - 13:00	Workshop on BIM Adoption: Lessons from NCRTC
	Professor Ashwin Mahalingam, IIT Madras
	IIT Madras, supported by ADBI, has developed a case study on the journey of
	Digital Technology Adoption by NCRTC. The workshop will disseminate the
	knowledge from this case, illustrating best practices that can be readily adopted
	in construction projects across India.
13:00 - 14:00	Lunch
14:00 - 16:00	Fish-banks Game – Renewable Resource Management Simulation
	Professor Nikhil Bugalia, Assistant Professor, Department of Civil Engineering,
	IIT Madras
	Participants will explore an online simulation game developed at MIT in this
	workshop. Working closely in a team of 3 people, participants will roleplay as a
	Fishery company, making decisions about their business. Participants
	understand some sustainability-related concerns facing renewable and
	nonrenewable resources and learn how to manage them. The session will also
	emphasize the relevance of the lessons to the construction industry and how
	such games can enable enhanced learning.
16:00 - 16:10	Closing Remarks, Dr. K E Seetharam, ADBI
16:10 - 16:30	Break
16:30 - 17:30	Lab Tour: Virtual Reality-based Construction Training
	Dr. Nikhil Bugalia, Assistant Professor, Department of Civil Engineering, IIT
	Madras
	Experience the intricacies of real construction sites through immersive VR
	simulations and their application in training and skill development.
	Location: VR lab Building Science Block, Department of Civil Engineering, IIT
	Madras

Venue

The workshop will be in-person in Hall 2, ICSR, IIT Madras (https://maps.app.goo.gl/J2QjHwxdtejLHaJ57)

For further information, please contact: Nikhil Bugalia at nbugalia@civil.iitm.ac.in or Ashwin Mahalingam at mash@civil.iitm.ac.in; IITM or KE Seetha Ram kseetharam@adbi.org; ADBI.