

FREIGHT TECHNOLOGIES AND STRATEGIES FOR RESILIENT FUTURE

Dr. Sushant Sharma

Friday, November 15, 2024 | 07:30 pm - 08:30 pm (IST)

Join from the meeting link

<https://tinyurl.com/TransTech-Talk-22>



ABOUT THE TALK :

This presentation showcases new freight technologies and strategies focused on building a sustainable future. Central to this discussion is the concept of the physical internet and smart logistics, which revolutionizes freight movement by optimizing efficiency and minimizing environmental impact. The presentation delves into the transformative potential of drone delivery and last mile solutions, highlighting their role in reducing urban congestion and emissions. Autonomous and electric trucks are examined for their ability to enhance safety and operational efficiency while promoting cleaner transportation. Smart border crossings for commercial vehicles demonstrate how advanced technologies can streamline customs processes, reducing delays and carbon footprints. Additionally, the concept of truck only lanes for automated trucks or truck platooning is analyzed, showcasing how dedicated infrastructure can improve traffic flow and fuel efficiency. By integrating these innovative technologies and strategies, the freight industry can significantly contribute to a more sustainable and efficient future.

ABOUT THE SPEAKER :

Dr. Sushant Sharma is a Asst. Program Manager and Research Scientist in the Multimodal Freight Program of the Texas A&M Transportation Institute (TTI), Texas A&M University, USA. He has 17 years of experience and expertise in freight mobility, planning, network modeling, travel demand modeling, big-data analysis and traffic operations. Dr. Sharma has worked on numerous research and consulting projects sponsored by Federal Highway Administration, National Cooperative Highway Research Program (NCHRP), USDOT's University Transportation Centers, and State DOTs in the US.

Dr. Sharma is a Senior Associate Editor of Transportation Research Records and serves as a reviewer and subject matter expert for nearly all transportation research-related journals. Nationally, he serves as the Chair of the Freight Transportation Planning and Logistics Committee (AT015) of the Transportation Research Board (TRB) and American Society of Civil Engineers' (ASCE) Freight and Intermodal Logistics Committee. He is a member of the TRB's Standing Committee on Disaster Response, Emergency Evacuations and Business Continuity. Internationally, he chairs the Freight Transport Modeling Group of the World Conference on Transportation Research Society (WCTRS). TRB Committee led by Dr. Sharma received the 2023 and 2024 Blue Ribbon Awards for implementing research into practice and promoting committee diversity. Dr. Sharma also received a Best Researcher Award from the TTI in 2023.