



KSCSTE - National Transportation Planning and Research Centre (NATPAC), an institution of Kerala State Council for Science, Technology and Environment (KSCSTE) is a premier R & D institution in the country which works on multi – modal system of transportation covering road, rail, water, air, etc.

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# TransPedia Research Talk Series

## ABOUT THE TALK SERIES

NATPAC has been conducting a series of technical talks 'TransTech Talk Series', since February 2023, where industry experts and eminent researchers come together to discuss the latest advancements, challenges, and innovations in the field of transportation.

**TransPedia Research Talk Series** is yet another unprecedented and distinctive endeavor from NATPAC, envisioned to promote research for shared benefits, by disseminating knowledge on diverse topics from cutting-edge technologies to sustainable solutions. Desirably this also brings out a platform for young researchers across the globe to connect and interact to better shape the future of research and development in transportation.

## ABOUT THE TALK # 22

### Assessment and Developmental Collaboration Framework for Less-Than-Truckload Carriers

Collaborative logistics, specifically collaboration among carriers, is an effective strategy to enhance logistics efficiency and reduce the operational costs. By sharing transportation resources and coordinating deliveries, carriers can improve route optimization, increase vehicle utilization, and minimize empty miles. This talk will delve into the core concepts of the collaborative Vehicle Routing Problem with Pickup and Delivery (VRPPD), present mathematical models for evaluating collaboration strategies, and examine key performance indicators such as cost savings and improving profits.

## ATTENDEES

Transportation Professionals, Engineers, Urban Planners, Researchers, Industry Experts, Policymakers, Students, and anyone enthusiastic about the future of transportation.

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**Natpac Trivandrum**

## ABOUT THE SPEAKER

### Dr. Bhavya Padmanabhan

**Postdoctoral Researcher  
National Renewable Energy  
Laboratory (NREL)  
United States**



Dr. Bhavya completed her PhD from the University of South Carolina in 2023 under the supervision of Dr Nathan Huynh. Her research focused on freight network modelling, intermodal freight systems design and collaborative logistics. Her expertise lies in analyzing freight transportation systems to enhance their efficiency, resilience, and sustainability.

**28.05.2025, 9:00 AM IST**

**JOIN USING THE LINK:**

<https://tinyurl.com/Transpedia-22>



*Don't miss out on this opportunity to delve into the realm of transportation innovation. Join us for insightful conversations, connect with fellow industry professionals, and be part of shaping the future of transportation.*