Sun, Sarah (FHWA)

From: U.S. DOT Federal Highway Administration <usdotfhwa@info.dot.gov>
Sent: Thursday, October 15, 2020 9:03 AM
To: Sun, Sarah (FHWA)
Subject: Re: TMIP Webinar – E-commerce demand analysis and implementation in urban/regional freight transportation and supply chain forecasting models
Attachments: E-commerce_Demand_Analysis_and_Implementation_.ics

Categories: Important, WSDOT

E-commerce Demand Analysis and Implementation in Urban/regional Freight Transportation and Supply Chain Forecasting Models

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TMIP will host a webinar organized by TRB Freight Transportation Planning and Logistics (AT015). Please join us on **Oct. 29, 2020 at 9:00 AM** Eastern Time (US & Canada) for our next webinar - E-commerce Demand Analysis and Implementation in Urban/regional Freight Transportation and Supply Chain Forecasting Models. The webinar will be moderated by Zahra Pourabdollahi, PhD, PE, Committee Webinar Coordinator.

Session Description

The webinar will present analyses of ecommerce trends and examples of modeling e-commerce demand in freight transportation forecasting and supply chain modeling framework.

Presentations:

- E-commerce Trends: Logistics and Consumer Behavior

This presentation will provide an overview of the recent trends in e-commerce from the logistics and consumer behavior perspectives. Specifically, the presentation will have two main segments: 1) trends before and after COVID-19, and short- and medium-terms changes during the pandemic; and 2) the

key logistics (e.g., distribution structure, facility location, vehicles and equipment) patterns resulting from changes in the retail landscape and consumer behaviors and expectations (e.g., fast, free, and reliable deliveries). The webinar will end with a discussion about the modeling and forecasting implications from these changes.

- SimMobility Freight: An Agent-Based Urban Freight Simulator for Evaluating Logistics Solutions

This presentation will introduce the framework of SimMobility Freight, which is part of a multi-scale agent-based urban transportation simulation platform. SimMobility Freight is capable of simulating commodity contracts, logistics and vehicle operation planning and parking decisions in a fully-disaggregate manner. This allows us to evaluate alternative logistics solutions and measure their impacts. The presentation will also discuss recent applications for policy analysis and enhancements of SimMobility Freight including e-commerce demand modeling within this agent-based freight transportation framework.

- NJTPA 2050 Freight Industry Level Forecasts Study

This presentation provides an update on enhancements to the NJTPA's Freight Forecasting Tool, analyze and identify gaps in existing freight and industry data, collect data and information to fill those gaps. Among key features of the updates and enhancements performed in this study is the development of commercial truck trip table representing ecommerce deliveries in the NJTPA region, developed using a combination of vendor-sourced market research data, primary research, socioeconomic data analysis, and modeling.

Presenters

Dr. Miguel Jaller is an Associate Professor at the Civil and Environmental Engineering Department of the University of California Davis and co-Director of Sustainable Freight Research Center at the Institute of Transportation Studies (ITS) Davis. His research interests include sustainable transportation systems, new mobility revolutions, e-commerce & last mile delivery, freight demand modeling and policy, city logistics and supply chain management. He is currently a member of TRB's Standing Committee on Urban Freight Transportation and the Standing Committee on Travel Survey Methods, and is the Chair of the Freight Travel Surveys sub-Committee.

Dr. Takanori Sakai is a Senior Postdoctoral Associate at Singapore-MIT Alliance for Research and Technology and MIT-ITS lab. He significantly contributed to the development of SimMobility Freight. He received a Ph.D. degree from the Department of Urban Planning and Policy at the University of Illinois at Chicago. His research mainly focuses on urban freight transportation planning and modelling. His papers were selected as the recipients of the Best Paper Award by the Urban Freight Transportation Committee at Transportation Research Board Annual Meetings in 2017 and 2018. He is currently a member of Transportation Research Board - Freight Transportation Planning and Logistics Committee.

André Romano Alho is a Research Scientist in the Future Urban Mobility Interdisciplinary Research Group, at the Singapore-MIT Alliance for Research and Technology. He is passionate about developing and applying research methods to provide innovative solutions for Transportation Systems, particularly focusing on Urban Freight operations.

Peiyu Jing is a Transportation Ph.D. candidate in the Department of Civil and Environmental Engineering at Massachusetts Institute of Technology (MIT). Her research interest includes freight data collection,

agent-based freight modeling and simulation, and congestion pricing. Her current research focus lies on developing a systematic methodology for evaluating the impacts of congestion pricing policies on different stakeholders in urban settings. She received her Master of Science in Transportation degree in 2018 from MIT and received her Bachelor of Engineering degree in 2016 from Shanghai Jiao Tong University.

Christopher Lamm is a Principal of Cambridge Systematics and Director of the firm's New York office. Mr. Lamm has 13 years of experience in metropolitan, urban, and statewide freight planning. He has led the development of regional and state freight plans and studies for public and private sector clients throughout the eastern U.S. He led two freight forecasting studies for the North Jersey Transportation Planning Authority, which enhanced the agency's Freight Forecasting Tool and developed forecasts of e-commerce demand and delivery vehicle trips.

Meeting Information

Participants do not need to preregister to attend the webinar. **Connections are limited to 100. First come, first served.**

You can log on to the webinar at:

https://connectdot.connectsolutions.com/tmipvirtualseminars/

The TeleConference Toll Free Number: 1-888-675-2535

Participant Passcode: 8344566

Meeting information has also been provided in the attached calendar invite for your convenience.

NOTE: We are experiencing some issues with the Flash Player in Chrome and Fire Fox. You may receive a message about the Flash Plugin and may not be able to proceed to the meeting room. Until a solution is found for this issue, please use Internet Explorer.

Contact Us

If you would like to work with TMIP to share your agency's experience or if you have questions or comments about TMIP, please contact Sarah Sun, FHWA.

We are committed to providing equal access to TMIP Webinars for everyone. If you need alternative formats or other reasonable accommodations, please send an e-mail to moderator@tmip.org with your request. We will respond to your request within 24 hours.

- E-commerce Demand Analysis and Implementation .ics

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