

TRB Statewide Modeling Peer Exchange

June 14 through June 16, 2022





Purpose

A Peer Exchange was held by the FHWA in Columbus OH, entitled "*National Data and Modeling Resources for Statewide and Long-Distance Travel*". The purpose of the peer exchange was to share experiences and learn about the state of the practice of statewide travel demand models. Specific attention is given to data sources both public and private, and both available and wanted

Participants

States

In Person – Iowa, Florida, Michigan, Delaware, Wisconsin, Kentucky, Ohio, Texas, Illinois

Virtual – Colorado, Oregon, California, Georgia

Consultants / Public Institutions

In Person – Caliper Corporation, Cambridge Systematics, CDMSmith, RSG, FuturePlan/Metro Analytics, WRA, AJH, FHWA, Volpe Center, Bureau of Transportation Statistics,

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Presentations

State Reviews of;

- Model Structure/Features
- Datasets Used
- Dataset gaps or issues

Breakout Group Discussions

Attendees Spoke on their Choice Topic;

- Freight Data
- Passive Data
- Model Application
- Modeling Technology
- Modeling/Forecasting
- Using the Model

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Notable Presentation Findings

- Virginia
 - Since 2017, have had a Statewide StreetLight License
 - IIJA Looks to Require MPO/TMA TDMs and Updates
- Wisconsin
 - MPO Models are Nested within the Statewide Model
- Colorado
 - Activity-Based Model
 - StreetLight OD in Aggregated Zones
 - Traveler Analysis Framework [TAF] is Scaled Up with StreetLight Data
- Florida
 - 8 Regional Models for 27 MPOs
- Kentucky
 - Local Roads Can Be Turned On/Off
 - Volumes Lower than 5k, is Troublesome
- Ohio
 - Based on 1 Week Short-Distance and 6 Month Long-Distance Travel Surveys
- Illinois
 - Short-Distance Walk, Pedestrian, Transit/School Modes

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Notable Presentation Findings

- Delaware
 - State has Authority over 95% of the Roads
- FAF5
 - New 2017 Base Year
 - New National and State Flow Maps
 - Additional Geography Options [Limited]
- Commodity Flow Survey
 - Future Vehicle Inventory and Use Survey [VIUS] Instance
- NHTS
 - Starting on an Official 5 year Cycle

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Notable Breakout Findings

Passive Data

- How to Best Select Passive Data
 - Need for a Review of Options
- How Best to use Passive Data
 - Need for Best Practices to be Identified
- Potential Long-Distance Application
 - Some Agencies Feel is a Good Source

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Notable Takeaways/Action Items

- StreetLight Analyses
 - Rest Area User Analysis
 - Park and Ride Lot Users
 - Sub-state Regional Flows
 - Underground Storage Tank to Infer Gas Stations
- IJJA Requirements for MPO/TMA and Statewide TDMs
- RSG product “rMerge” as a resource for LBS data
- FAF5, County to County Truck Flow Forthcoming
- BTS Visualization Tool for Long-Distance Trips
- Lookup the ITE Truck/Employee Parking Tool
- Review National Long-Distance Passenger Model
- Review the National Freight Simulation Model



Thank you for Your Attention

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