

NCMUG Vision: to provide a forum for sharing knowledge and experiences of using state-of-practice transportation modeling tools, techniques and innovations appropriate to answer transportation planning and policy questions for the State of North Carolina, and promote its implementation across the State.

2019 Spring NCMUG Meeting

Wednesday, April 24, 2019

10:00 a.m. – 11:40 a.m.

Room 217A

Charlotte Convention Center, 501 S College St, Charlotte, NC 28202

Agenda

Moderator: Amar Pillai, NCDOT

- **INTRODUCTION**

- **SPOT PRIORITIZATION PROCESS**

10:00-10:35 AM

North Carolina Statewide Model (NCSTM) Recent and Upcoming Enhancements, and Using the NCSTM for Prioritization (35 minutes)

Roberto Miquel, AICP, CDM Smith

Learning Objectives

- Latest NC Statewide Model and Development and Updates
- Introduction of SPOT
- Appropriate use of NC Statewide Model for SPOT Process

10:35-11:10 AM

SPOT Prioritization for Intersection/Interchange Projects (35 minutes)

Lee Klieman, PE, PTOE, Patriot Transportation Engineering, PLLC

Learning Objectives

- Appropriate Use of Micro-Simulation for SPOT
- Incorporating the NCSTM into the SPOT Simulation Modeling Process
- Understanding the Process for Building a SPOT Simulation Model
- Evaluating the Results of SPOT Simulation Models

- **TRAVEL DEMAND MODELS USE IN TRACKING FHWA REQUIRED PERFORMANCE MEASURES**
11:10 AM – 11:40 AM
Performance Measurement and Performance-Based Planning (30 minutes) [continued from 2018-11-01 NCMUG meeting]
Facilitator: Pam Cook, NCDOT

Focus Points

- Overview: What is the data needed to determine if NCDOT/MPO performance measures are being met in the three separate rulemaking areas of a) Safety; b) Pavement/bridge, and c) CMAQ, Reliability, and Freight; and additional MPO performance measures (different for each MPO)
- What data for federal required performance measures for MPOs can be obtained from current travel demand models?
- Are there any changes/additions that could be made to current models more helpful in capturing needed performance measure data?
- Who needs to be included in the discussion of possible changes to a current travel demand model to make TDMs more useful for informing performance measures. Or do performance measures need to be modified to better match what data is available from travel demand models.

Other Notes:

One and a half (1.5) PDHs can be earned at the meeting.