Comprehensive Planning Forecasting Process

June 9, 2016





Local Forecasting Requirements

- Socio-Economic Data
- Traffic Volumes on Principal and A-minor Arterials



Forecast Coordination

- Consistency with
 - TPP Current Revenue Scenario
 - County plans
 - Adjacent city plans
- Consistency in
 - Inputs
 - Outputs
 - Not necessarily methods



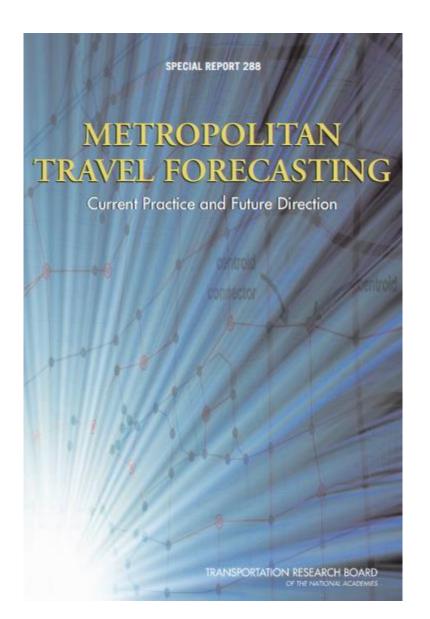
Forecasting Options

No one single approach to travel forecasting set of procedures is correct for all applications or contexts

Options:

- Twin Cities Regional Travel Demand Forecast Model
- Locally Developed Model
- Trend Analysis







Validation

 Application of developed/calibrated models, comparison against observed data, sensitivity testing



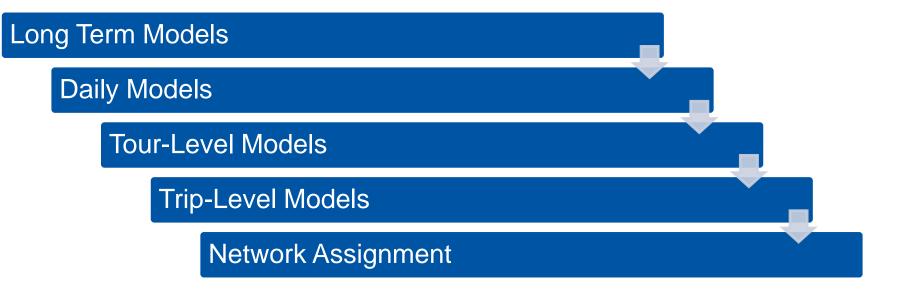
Travel Model Validation and Reasonableness Checking Manual Second Edition

Helping Agencies Improve Their Planning Analysis Techniques

TMIP



New Regional Model





Regional Model Validation

- Supply data
- Assignment parameters
- Synthetic population
- Each model component separately
- Aggregate assignment validation
- Sensitivity testing



Validation of Regional Model

Other Models: Documentation

- FHWA Certification Checklist:
 - Last model revision
 - Model specification
 - Calibration data
 - Local survey
 - Model validation
 - Size of network
 - Number of zones
 - Non-home based travel



Other Option

Check for forecasts done in your area by MnDOT, County, or Council



Trend Analysis

- Only appropriate for rural communities where changes in traffic patterns are limited.
- Must be consistent with population/employment forecasts
- Beware "jumps" in long-term trends
- Supplement with local knowledge



Discussion



