



# Transportation Modeling 101

## WHAT IS A TRANSPORTATION MODEL?

- A set of mathematical relationships that model or represent the choices people make when traveling. These choices include the number and destinations of trips, and their modes. Travel demand estimates the combined effect of thousands of individual choices.
- A planning tool for projecting the impacts of alternate transportation scenarios, such as new highways, bus route changes, or parking restrictions on future travel demand.

## WHAT CAN AN MPO'S TRANSPORTATION MODEL DO?

- Forecast the number of trips on the region's road, transit, and other transportation networks.
- Project long-range traffic growth patterns by area and roadway network.
- Highlight the traffic impacts of new land use developments.
- Estimate air quality based on Vehicle Miles Traveled (VMT).
- Evaluate the effectiveness of various transportation project scenarios.
- Test policy implications of travel mode choice (Travel Demand Management).
- Help local jurisdiction find ways to mitigate current and future traffic capacity constraints.

## WHY ARE MODELS IMPORTANT?

- Federal law requires Metropolitan Planning Organizations (MPOs) to prepare 20-year plans (including short- and long-range strategies) to develop an integrated intermodal transportation system.
- Models allow a multimodal evaluation of the transportation, socioeconomic, environmental, and financial impacts of a transportation project.
- Model estimations help policy makers prioritize transportation investments and use taxpayer dollars wisely.

## HOW DO WE KNOW THE MODEL WORKS?

- The model is adjusted to match the results of several regional travel behavior surveys. Uses data sources such as:
  - Regional travel surveys.
  - Origin and destination surveys.
  - Existing regional county-based transportation models
  - Regional traffic count data for vehicles.
  - Automated passenger count (APC) data for transit trips.

## MODEL LIMITATIONS

The model is a statistical estimation (not an exact prediction) of regional travel behavior.

# The Administration Of Transportation Modeling Projects

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