

# Model Validation

# Trip Generation

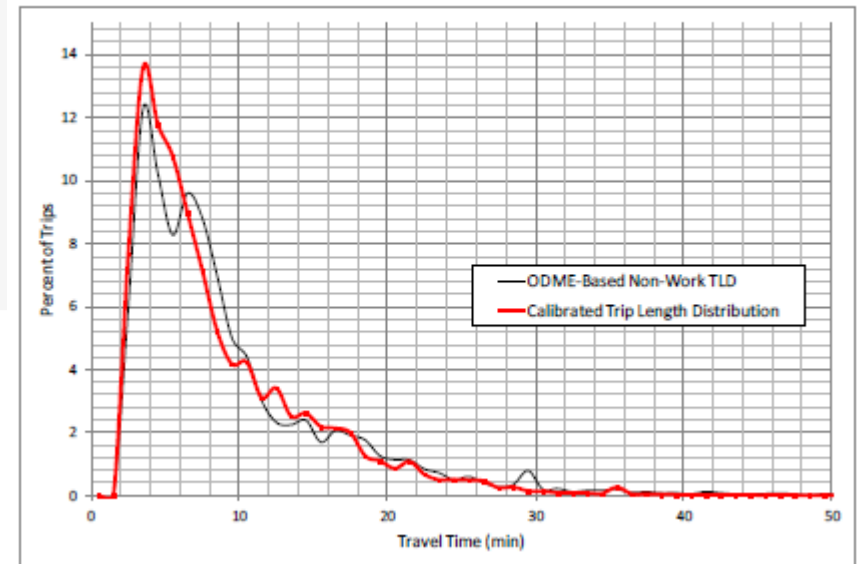
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- Trip Rate Review
  - » Reasonableness checks

# Trip Distribution

- Trip Length Frequency Distribution (TLFD)
- Average Trip Length
- % Intrazonal
- District to District flows

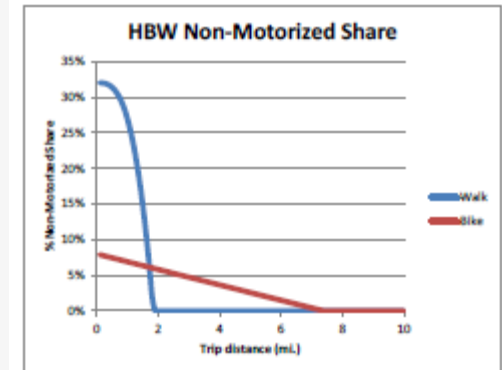
FIGURE 4.2: NON-WORK TRIP TIME DISTRIBUTION



# Mode Split

## ➤ Non-Motorized

- » Calibrate to ACS or CHTS shares
- » Can also use Big Data such as Strava for bike trips



## ➤ Transit

- » District based summaries
- » Calibrate to observed boarding data

CHTS-California Household Travel Survey

# Traffic Assignment

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- Compare modeled and observed volumes
  - » At screenlines (a screenline splits a study area into two parts, capturing performance measures for flows from one part of the study area to the other)
  - » Aggregates by facility type and area type
- Can validate at daily or peak period level
- Statistics
  - » R-squared, RMSE, Volume/Count ratio
  - » Regional, subarea
- “Top 10” Errors

# CSTDM Screenlines

