

Travel Demand Modeling

- Replicates existing and future traffic by utilizing traffic count data, projections for population, households and jobs and the expansion of transportation facilities.
 - Future development data is provided by the Prince William County Planning Office based on the current zoning and the long-range land use in the Comprehensive Plan.
- Modeling in the DC Region is based on the Metropolitan Washington Council of Government (MWCOG) regional model.
- A more detailed model is utilized for Prince William County, derived from the regional model. It provides traffic information on a larger number of secondary roads compared to the MWCOG model.
 - This model has a detailed network and refined Transportation Analyses Zones (TAZs) for the County.
 - All roads in the Thoroughfare Plan and other major roads are included in this model.
- The Prince William Model simulates the effects of future traffic on a proposed future road network. Suggested or recommended changes are run to determine impacts to the road network.
- Pedestrian/Bicycle trips are removed from the trip generation step based on trip purpose and the population and employment density.

