

Travel Demand Modeling

California Statewide Model

The California Statewide Model was developed at Caltrans through a series of classes and work sessions led by Dowling Associates on TP+/VIPER software, GIS and travel demand modeling. Staff from Caltrans and other agencies and consultant staff worked together to complete the model through class assignments. Caltrans staff will use the model to provide information on statewide and regional trends in transportation demand, supply and operations.

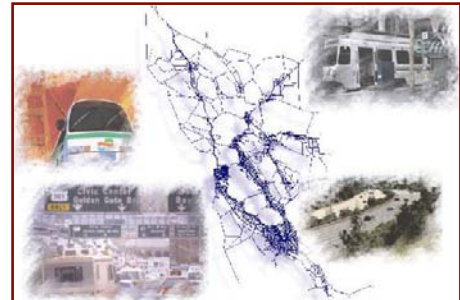
- A nested logit mode choice model forecasts intercity air, rail and bus travel.
- Trip distribution procedures were developed to forecast typical urban trips and long distance travel
- Dowling developed user manuals and led training courses in model application for agency staff throughout California.



MTC 2005 Regional Transportation Plan Update

Dowling Associates assisted the San Francisco Bay Area Metropolitan Transportation Commission (MTC) with project evaluation, cost estimating and travel demand forecasts for the 2005 Regional Transportation Plan.

- The MTC model (TP+) was enhanced by combining all base and future road and transit network alternatives into a master network database integrated with project listing databases
- New procedures were added to evaluate auxiliary lanes, ramp metering, in addition to ferries, ITS, and bus rapid transit (BRT)
- Detailed performance and cost-benefit measures were calculated systemwide and for individual corridors



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