

## Regional Rail Forecasting Methodology

Travel demand forecasts prepared for the Regional Rail Plan study are based on two complementary computerized analysis systems: the MTC's regional model system, used for forecasting intra-Bay Area travel; and the Statewide model system, used in forecasting inter-regional travel. The MTC model system is typical of "advanced trip-based" models in common use in the United States, and was developed by MTC staff in the late 1990s. The existing MTC model system operates with 1,454 regional travel analysis zones, and is implemented using a proprietary Cube/Voyager software system. The Statewide model system was re-developed by consultants to the MTC and California High Speed Rail Authority in 2005/2007, for the Bay Area/California High Speed Rail Ridership and Revenue Forecasting Study. The Statewide model system operates with 4,667 statewide travel analysis zones (including the 1,454 zones within the Bay Area), and is also implemented using the proprietary Cube/Voyager software system. The Cube/Voyager software is a commercial software system produced by Citilabs, Inc., of Oakland, California. Citilabs is currently working on software advances to allow users web access to transportation networks and forecasts.

Trip purposes included in the MTC (intra-regional) model system include home-to-work, home-to-school, home-to-non-work, and non-home-to-non-home trip purposes. MTC travel modes include: driving alone, carpooling, public transit, bicycling and walking. Trip purposes included in the Statewide (inter-regional) model system include: home-to-work, home-to-business, and non-work trips, stratified by short distance versus long distance interregional trips. Statewide models travel modes include: air passenger, auto driver or passenger, conventional rail, and high speed rail.

For more information on the MTC model system, visit the agency's web page at:  
[http://www.mtc.ca.gov/maps\\_and\\_data/datamart/forecast/](http://www.mtc.ca.gov/maps_and_data/datamart/forecast/)

For more information on the Statewide model system, visit the California High Speed Rail Authority's web page at:  
<http://www.cahighspeedrail.ca.gov/ridership/>