

Services Provided: TEMS served as a consultant to provide demand forecasting and financial analysis for the Detroit-Windsor Tunnel Corporation Study.

Description of Project: TEMS

developed a comprehensive traffic and revenue forecasting system for the Detroit and St. Clair River crossings. The database was established on a 120-zone system covering Southeast Michigan and Southwest Ontario (in detail), Michigan and Ontario (county basis), and the rest of the U.S. and Canada (urban, state, and regional basis).



A detailed socioeconomic and traffic origin-destination database was established using both existing databases (SEMCOG, MTO, BEA, StatsCan sources), as well as specific auto and truck intercept surveys. Total demand, induced demand, and route choice models were developed to provide long-term forecasts by mode and purpose, as well as market shares for different crossing facilities.

The models were used to estimate traffic and revenues under different plaza improvements, capacity changes, operational improvements, and changes in the toll structure. A comprehensive financial and economic analysis was completed to identify return on investment. A financial strategy developed for the Tunnel Corporation maximized revenues for different policy decisions.

Project Start Date

November 1991

Similar Issues

- Demand Forecasting
- Financial Analysis
- Toll Pricing Policy