



Comprehensive Traffic Forecasts

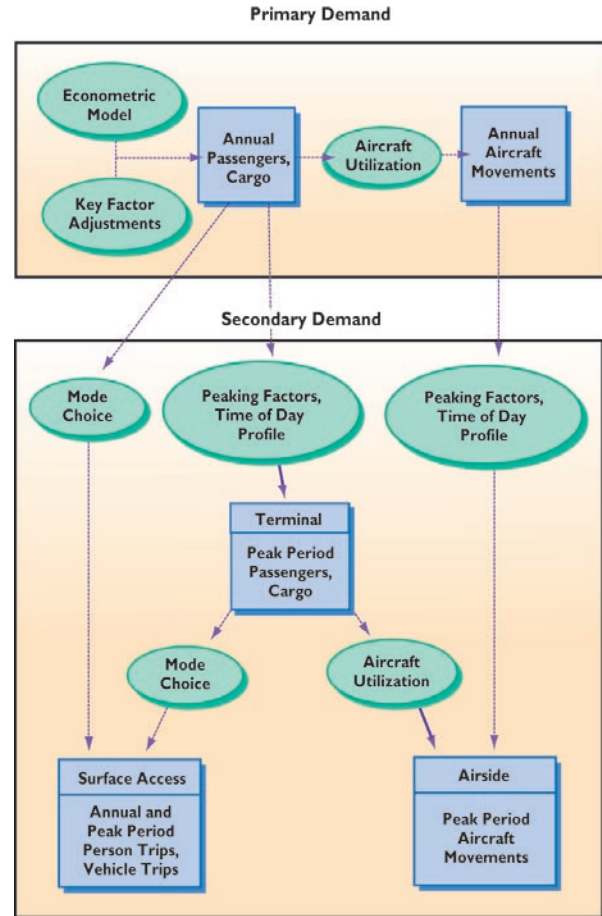
Hong Kong International Airport

TO FACILITATE planning and policy decisions related to development of the new Hong Kong International Airport, the Provisional Airport Authority needed comprehensive forecasts of primary and secondary aviation demand and an integrated forecasting system.

Teamed with MVA Asia, Leigh Fisher Associates developed a forecast model to produce unconstrained primary and secondary demand forecasts and allow the Authority to test alternative scenarios and assumptions. In the study's first phase, the team developed a forecast methodology, compiled economic and air traffic data, conducted a departing passenger survey at Hong Kong's existing Kai Tak Airport, and developed an econometric analysis of primary aviation demand.

During the study's next phase, the team prepared and refined primary forecasts of annual passenger, cargo, and aircraft movements and secondary forecasts of peak-period passenger, cargo, aircraft, and surface transport movements. Key factors, such as the rapid economic development of the Pearl Delta, potential changes in transborder travel restrictions, and the continued development of Hong Kong as a transfer hub, were analyzed in determining the forecasts. To reflect market uncertainties, various scenarios were tested, resulting in alternative forecasts of aviation demand. The comprehensive methodology included direct linkage of primary and secondary demands, so that, for example, the impact of travel restrictions on annual demand could be simultaneously evaluated in terms of peak-period aircraft movements.

The resulting forecasts were presented to the Hong Kong government's working groups as well as the International Air Transport Association. After extensive coordination with each of these groups, the team submitted its final report and delivered the completed forecasting system with appropriate documentation to the Authority in July 1994.



Forecast Methodology Schematic

In 1999, the Authority retained Leigh Fisher Associates to provide "expert review" of the working forecasts used by the Authority.

Client:	Provisional Airport Authority
Services:	Forecasting and Economics