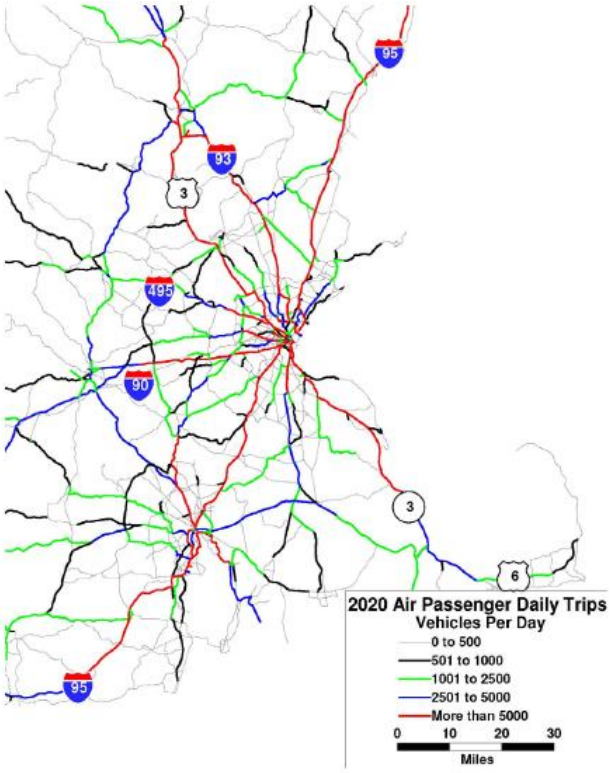
New England Regional Airports Systems Planning Study
Air Passenger Highway Growth
Massachusetts Port Authority

Duration: 2001-2002
Project Fee: $150,000
Firm Fee: $10,000
Role: Sub-consultant



TrafInfo Communications, Inc. was hired as a sub-consultant to help build a transportation model of the New England region's highway network in order to assess the impacts from anticipated passenger growth at the eleven regional airports.

TrafInfo utilized the GIS-based software called TransCAD to assess the impacts using the regional model. The entire New England region including the various towns/cities and counties were included in the model.

A unique algorithm was developed to estimate the congested travel time on the various highway links based upon traffic counts and the functional/area classification of the highway link.

Estimates of the air passengers for the regional airports were converted into vehicular trips to/from the airports and assigned to the highway network based upon congested travel times.

The model was also utilized in identifying specific impacts from the passenger growth anticipated at each of the eleven regional airports in New England. The model allowed the identification of critical highway corridors that would experience the greatest growth in traffic due to increases in air passenger travel. With this information, each regional airport can plan for travel demand management strategies including park-ride lots, shuttle buses, etc.