

Client

Caltrans District 7
Allen Chen
Office of ITS Development
(213)897-8922

Location

Los Angeles, California

Services

- Project Management
- Travel Time Algorithms
- User Interfaces
- Database Schema
- Design Documentation
- Developed and Integrated System Software

Date

June 2004 – March 2005

Key Personnel

Dan Lukasik, P. E.

CALTRANS District7 Changeable Message Sign Travel Times Subsystem

Scope of Services

In mid 2005, Delcan Corporation deployed a new Changeable Message Sign (CMS) Travel Time subsystem for Caltrans District 7 in Los Angeles and Ventura Counties in California. This CMS Travel Time System is integrated as part of the award-winning Advanced Transportation Management System (ATMS) of Caltrans, which was recently upgraded to a new PC Browser application.

Project Description

Delcan developed the travel time algorithms, user interfaces, database schema, and design documentation. Delcan also developed, and integrated and tested the system software and integrated and tested it with the District's production system. Via the ATMS travel time system, operators are able to select which signs will get the messages, which travel targets will be displayed (i.e. destination points such as major interchanges) and schedule when the travel time messages will be displayed via the ATMS travel time system. During the scheduled period, travel times are automatically displayed on the signs when they are not being used for incident management or AMBER alerts. Phase 1 of the deployment involved 14 of the District's total signs. The second phase involved approximately 40 total signs and the final phase involved 80 signs.

Display of the travel time information on signs serves two purposes: it allows drivers to better estimate their arrival time to their destination and also offers information which will allow them to change their route if they so choose. Both responses are valuable since they increase the satisfaction of our customers and help reduce overall delay.

**Results**

CMS travel time displays are just one of many initiatives included in the District's updated Urban Freeway Congestion Relief Program. Travel time displays are available on both Changeable Message Signs (CMS) within the District and also in on the web enabled Regional Integration of ITS System (RIITS), where traveler information is made available for dissemination to other partner agencies and information Service Providers (ISPs). The RIITS data stream is also expected to be a foundation for future regional 511 activities. RIITS is a system developed and deployed by the Los Angeles County Metropolitan Transportation Authority. The RIITS network makes Caltrans data and video available to other regional operators, emergency services and Information Service Providers.