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A Web-based Transportation Performance Monitoring and Assessment System

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In order to meet the growing demand for transportation data to plan and monitor operational and capital improvements, a transportation monitoring and performance assessment program was implemented around a comprehensive, consistent transportation information warehouse containing data from a wide variety of sources, including near real time traffic data and HPMS data for the entire Southern California region.

This project brings together a wide variety of data into a common, shared system as a critical data resource for the MPO, transportation commissions, and local cities. This resource will assist in meeting mandated reporting requirements, monitoring the performance of the transportation system, and monitoring the effectiveness of improvement efforts and projects. The Regional Transportation Monitoring Information System (RTMIS) provides graphical tools to query, display, and report data over the Internet. Data entry capabilities can facilitate the update and maintenance of the databases, including HPMS data.

RTMIS contains two primary types of data:

1. Transportation Infrastructure Inventory (roadways, mileage, number of lanes, posted speeds, the location of transit routes and stops, and other facility information, where available); and
2. Transportation System Operational Characteristics (traffic volumes, operating speeds, travel times, delays, transit ridership, productivity measures, etc., where available);

A third data category is included because of its widespread use and its applicability as valuable reference information:

3. Socioeconomic and Land-use data, including population, housing, and employment.