



Representative samples of current or recently completed Caltrans research projects.

California Department of Transportation



Caltrans manages more than 50,000 miles of California's highway and freeway lanes, provides inter-city rail services, permits more than 400 public-use airports and special-use hospital heliports, and works with local agencies. Its mission is to provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability.

IRIS Open-Source Transportation Management Software for TMC's



IRIS provides an alternative, low-cost, integrated advanced traffic management system for rural districts.

Automated Safety Warning System Controller



A standardized automated controller for processing roadside data, and provides motorists with timely and reliable notifications about traffic and weather conditions.

Research and Support for MTLs Data Management and Visualization

Upgrade and enhance Mobile Terrestrial Laser Scanning (MTLS) data management; and develop software tool for automated data cataloging.



Compliance Crash Testing of the Type 732SW Bridge Rail

Based on the crash test results, Type 732SW is recommended for use as a new bridge rail on moderate speed highways, with pedestrian traffic under TL-2 conditions.



What Affects Millennials' Mobility?

PART II: The Impact of Residential Location, Individual Preferences and Lifestyles on Young Adults' Travel Behavior in California



Develop statistical analyses of Millennials' travel behavior, car ownership, and future propensity towards mobility.

A Comparative Analysis of High Speed Rail Station Development into Destination and/or Multi-use Facilities



A study on good station-area planning for successful operation of a high-speed rail station.

Seismic Behavior of Grade 80 Reinforced Concrete Bridge Columns – Phase 2

A study to examine and characterize the seismic response of reinforced concrete circular columns constructed with Grade 80 steel.



Caltrans Bridge System Seismic Research for Accelerated Bridge Construction (ABC) Website

Highlights of research projects on the seismic performance of precast bridge system for Accelerated Bridge Construction (ABC), are presented on the website.



Life-Cycle Cost Analysis for Composite Pavements



To investigate the effect of composite pavement design variables, and incorporate the results into Caltrans design procedures and life-cycle cost analysis guidelines.

Recycling Strategies for Rubberized Hot Mix Asphalt



To develop project selection and mechanistic empirical design guidelines, describing the differences between partial depth reclamation and full depth reclamation; and when to use each technique.

Division of Research, Innovation and System Information (DRISI)



Visit DRISI's website for more information!