



Bridging the Gap

Your Connection to Engineering Services

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Artificial Intelligence at Caltrans



AI marks a significant stride forward in technology by generating text, images, and other content, transforming the way Caltrans conducts business and serves the public. The department established policies and practices to ensure safe and responsible use of AI tools including a 2026-2028 Data and AI Strategic Plan, Deputy Directive 54, and a GenAI Governance Subcommittee.

Caltrans' main goals with implementing AI are to improve safety, mobility, and business outcomes, empower a people-first workforce, build a trusted data foundation, deliver measurable efficiency and cost savings, and govern AI responsibly and sustainably.

There are multiple AI projects in various phases of production. In discovery the planning phase are three projects including an AI-enabled learning management system, AI for project delivery, and work zone safety. Currently in proof of concept development are an adaptive AI traffic signal control in District 5 and an AI-enabled wrong way detection in District 3. Microsoft 365 Copilot, Traffic Mobility Insights (TMI), and Road Safety Insights are approved to use.

One in four fatal or serious-injury crashes in California involves a pedestrian or bicyclist. This unfortunate reality underscores the need for more proactive, data-driven approaches to roadway safety. For years, safety analysis meant reviewing crash records after harm had already occurred. Road Safety Insights (RSI) changes that. By integrating more than 30 data sets spanning crash history, infrastructure, travel patterns, and equity indicators into a single AI-powered platform. RSI helps safety engineers identify risk patterns before someone gets hurt.

Before TMI, traffic and safety data lived in seven separate statewide systems that took hours to interpret and piece together. TMI unifies those seven systems into one platform. Corridor analysis that once took hours, now takes only minutes. The result is faster insights, consistent evaluations and a better foundation for more proactive safety measures for California travelers.

Are you interested in working with advanced Artificial Intelligence technology like this? Visit [Working with the Division of Engineering Services](#) for more information about current job openings to begin a career with Caltrans Division of Engineering Services.

