

The background is a solid teal color with various white line-art icons. At the top left, there is a car icon with signal waves emanating from it. Below it, another car icon is shown with signal waves. To the right, there is a vertical stack of horizontal bars, resembling a data visualization or a list. At the bottom, there are several small icons: a person in a wheelchair, a person with a cane, and a person with a hearing aid. The main title is centered in the upper half of the page.

Intelligent Transportation Systems (ITS)

Our Mission

Create a [safe](#), [accessible](#), [sustainable](#) transportation environment that embodies diversity, equity and inclusion for future generations

Intelligent Transportation System (ITS) improves transportation safety and mobility and enhances productivity by integrating advanced communication technologies into vehicles and infrastructure. The U.S. Department of Transportation (USDOT) has invested heavily in ITS which is a testament of the national recognition of this important technology-based discipline, thereby harnessing benefits in saving lives, reducing congestion, and making our communities more livable. By working with the private sector and the academic community, KOA is fostering innovation, encouraging deployment, and witnessing the success of ITS technologies throughout the country.



City of Azusa Intelligent Transportation System (ITS) & Traffic Management System (TMS) Project

This project is the City of Azusa's first Intelligent Transportation System (ITS) and Traffic Management System (TMS) Project. KOA provided traffic signal design, centralized traffic control system and monitoring upgrade, construction management, and inspection services. KOA provided traffic improvements at 52 project intersections. Our work included installation of intersection signal equipment, detection systems, a centralized traffic control and monitoring system, signal timing, street layout improvement, and upgrade curb ramps at project intersections.

Orange County Transportation Authority (OCTA) Traffic Signal Synchronization Master Plan

KOA is collecting data from OCTA and local agencies to update OCTA's GIS database for ITS infrastructure and provide a complete County Synchro network with updated TSSP data. Using GIS, we are developing maps and surveys for each agency, to obtain feedback on their ITS network. We then update each of these maps to determine a baseline for the Master Plan Update.

KOA is compiling and integrating all completed TSSP projects into the Countywide Synchro network. We are reviewing critical intersections and spot-checking the network on a mile-to-mile basis to update it. This would be used to develop the next wave of TSSP projects. The Master Plan Update will guide program requirements for local agencies for the next 10 years.



City of South Pasadena North-South Corridor Intelligent Transportation System (ITS) Deployment Project

The City of South Pasadena obtained \$10 million FHWA Rogan Funds (Bill No. HR 5394) to improve traffic flow and along Fair Oaks Avenue between Huntington Drive and Columbia Street (North City Limits). The funding from this grant will provide necessary traffic congestion relief. The project proposes to install ITS Upgrades along Fair Oaks Corridor. The upgrades include video detections, CCTV monitoring, passive pedestrian detection, emergency vehicle preemption, signal synchronization, changeable message signs, ADA upgrades, bulb-out treatments, median nose modifications, and fiber optic communication. There will be some traffic signal modifications to introduce flashing yellow arrow operation in the City.

KOA has highly-specialized expertise needed for the proper application of ITS to improve the overall capabilities of transportation systems managed by public agencies. We conduct meticulous field investigations and are intimately familiar with the technical design and specifications required for ITS deployment. Our ITS expertise lends comfort to and builds confidence in our clients knowing that their transportation systems are in good hands.



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