INTELLIGENT TRANSPORTATION SYSTEMS (ITS)

KOA

Intelligent Transportation System (ITS) is an advanced technology which innovatively integrates multiple technology in order to achieve maximum efficiency of transportation infrastructure. By implementing ITS, we enrich commuters with information relating to different modes of transportation and traffic management, which helps with route choices resulting in reduced travel time.

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.

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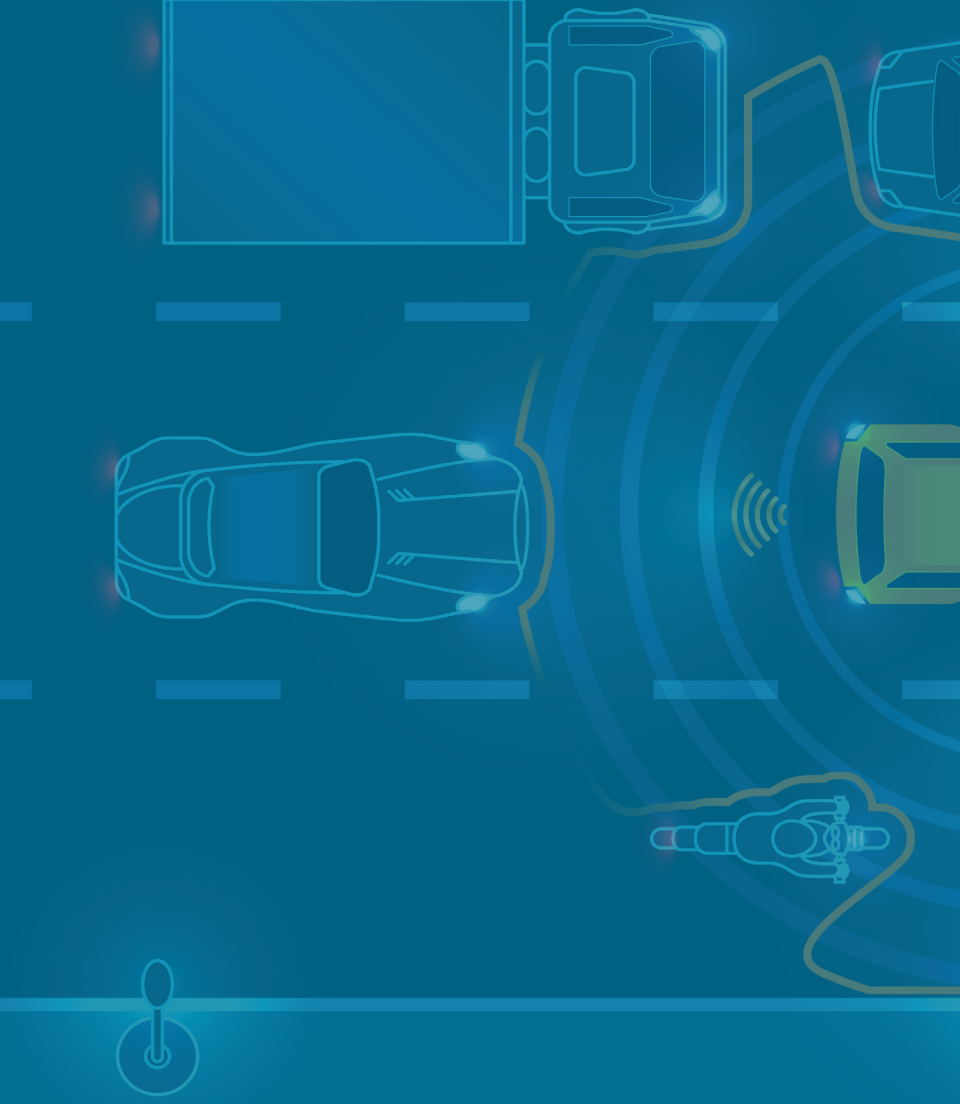termine a baseline for the Master Plan Update. KOA is compiling and integrating all completed TSSP projects into the Countywide Synchro network. We are reviewing critical intersections and spot-checking the network on a mile-to-mile basis to update it. This would be used to develop the next wave of TSSP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

City of Coachella ST-68 Traffic Signal Synchronization Project (TSSP)

KOA is providing ITS and signal design services for the Traffic Signal Synchronization and ITS Infrastructure Phase I Deployment of the City's ITS Master Plan. The scope includes complete PS&E for controller upgrades, ITS hardware & software upgrades, new 72 single mode fiber optic interconnect of all City intersections, redundant wireless interconnect and the PS&E to construct a new Traffic Management Center (TMC). Signal synchronization and timing Implementation for 16 City traffic signals is included, as well as timing implementation and training for City staff for TMC operation.

KOA is well known for the specialized expertise needed for proper application of ITS to improve the overall capabilities of a transportation system for public agencies. We conduct meticulous field investigations and are very much familiar with the technical design and specifications required. This provides a much needed comfort and confidence to our clients knowing that their system is in good hands!

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