PROSPECT
Silicon Valley

ITS Signal Lab

ProspectSV Technology
Demonstration Center
1608 Las Plumas Ave.
San Jose Ca, 95133

Features

ITS Lab is a fully functioning traffic intersection, based on live streets. The Lab is comprised of a City of San Jose TS2 Traffic Cabinet, programmed for the Zanker Road & Tasman Drive intersection in San Jose, complete with the following equipment and peripherals:

➢ Siemens (2070) Controller with D4 Firmware by Advanced Traffic Solutions
➢ Econolite COBALT Controller
➢ Savari Networks STREETWAVE DSRC, roadside unit, mobile unit, and software development kit
➢ Arada Systems LOCOMATE DSRC roadside unit and mobile unit
➢ Cisco/Cohda DSRC roadside unit and mobile unit
➢ Cloud-based connection to Cisco Labs' virtual intersection
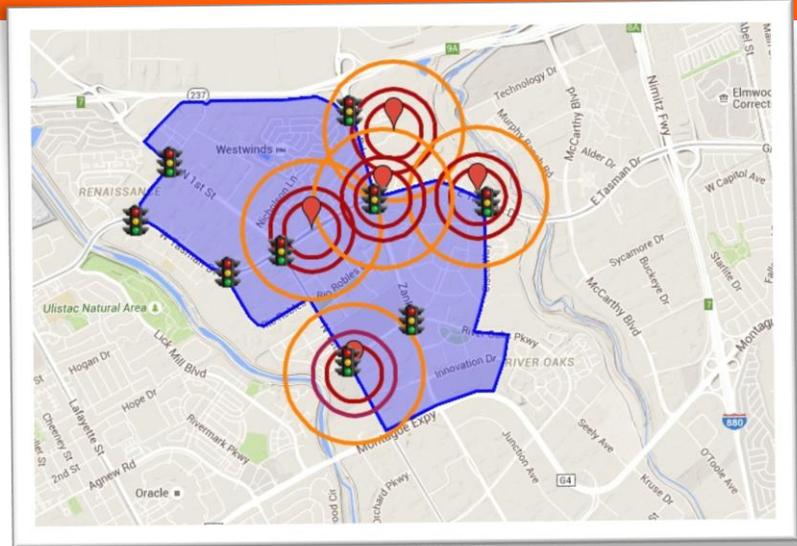➢ DSRC packet sniffer & debugger

Applications

Accessible to startups and established companies alike, ITS Lab is a realistic, life-scale intersection platform for:

➢ Environmental and geolocation applications such as eco-driving and traffic controls, parking, signal priority, and road/weather information.
➢ Mobility applications such as commercial fleet operations, traffic networks, roadside operations, first/last mile mobility applications, pedestrian information, freight applications, and transit.
➢ Safety applications through vehicle-to-infrastructure and vehicle-to-vehicle communication.
➢ Service applications such as data distribution, infrastructure management and system monitoring.

Field Scale

The core theme governing our ITS Signal Lab is optimally maximizing utilization of existing (and guide development of future) public infrastructure to utilize the emergence of connected vehicles. Adaptive traffic control systems, emergency and fleet operations management, electronic on-demand tolling, freeway access control, and dynamic electronic signage would be high impact topics. Important topics down-the-road would be providing safety and routing data to support autonomous vehicles, plus continuously updated traffic information, such as road closures, accident locations, and weather conditions impacting traffic flow.

ITS Lab is based on intersections in the North San Jose *Transportation Innovation Zone*

Using the ITS Lab

ITS Lab is meant to be a broad, diverse set of resources for Smart Infrastructure and Connected Vehicle innovators. A vendor-supported applications development environment (SDK) is available for interfacing with the hardware in the lab. The lab will provide an environment for accelerated testing and deployment of prototypes that demonstrate the readiness of new solutions. Along with the ITS lab physical assets, the ITS lab also includes a data platform for capturing, storing, and retrieving various types of traffic data (under development). Facility access agreements are available now.

ITS Signal Lab Partners

Contact

ProspectSV

1608 Las Plumas Ave.

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www.prospectsv.org | info@prospectsv.org