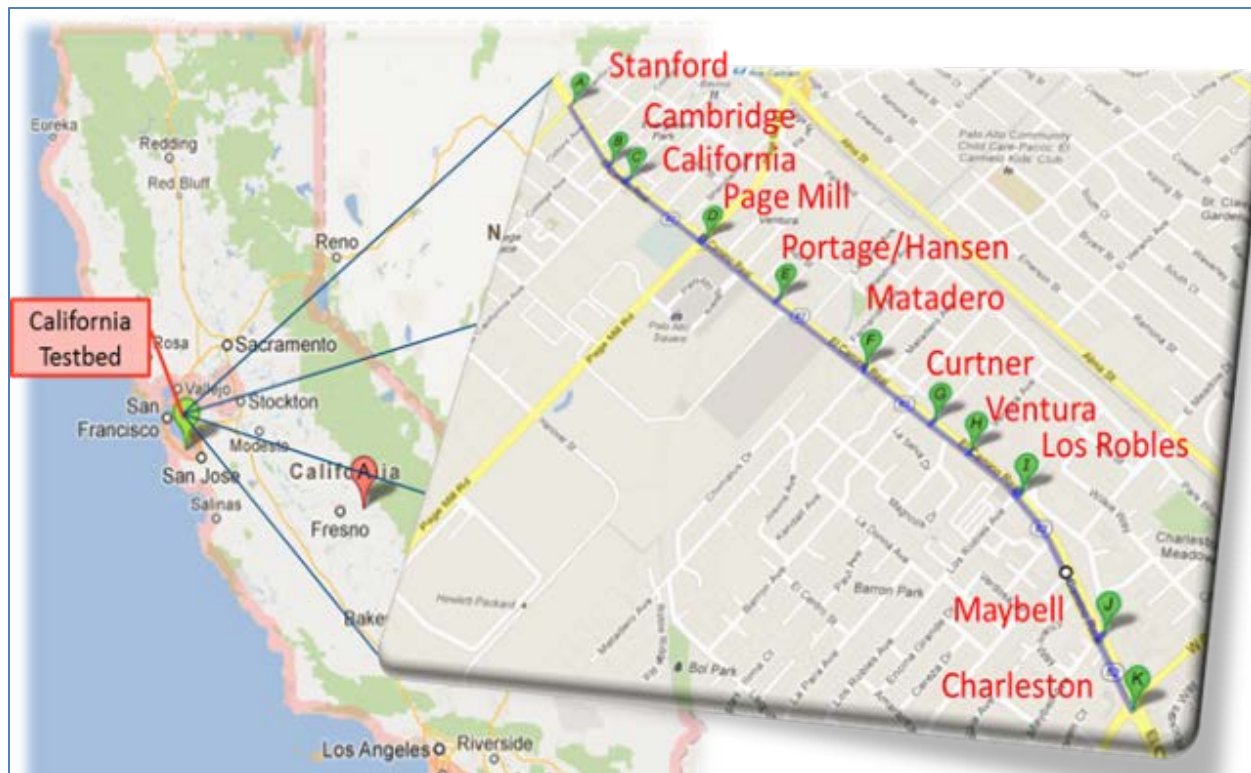


## California Connected Vehicle Test Bed Open for Business

In 2005, Caltrans, the San Francisco Bay Area's Metropolitan Transportation Commission (MTC), and the University of California's PATH Program partnered to establish the nation's first dedicated short-range communications (DSRC) test bed in Palo Alto, California with the aim of assessing real-world implementations of connected vehicle technology and applications. This California Connected Vehicle Test Bed was recently made part of the United States Department of Transportation's (USDOT) network of Affiliated Test Beds and now conforms to the latest technology standards and architecture of USDOT's Connected Vehicle research program. Conveniently located near many of the automobile research labs, technology companies and industry start-ups in the Silicon Valley, the Test Bed is open and accessible to all industry partners.

The California Connected Vehicle Test Bed is operated and managed by PATH and is supported by Caltrans, MTC and USDOT's Intelligent Transportation Systems (ITS) Joint Program Office (JPO). It supports cutting edge research in connected vehicle safety, mobility and environmental related applications and services. The Test Bed utilizes state-of-the-art 5.9 GHz DSRC devices that span 11 consecutive intersections along a 2-mile stretch of the highly travelled arterial of El Camino Real (SR-82) arterial in Palo Alto (see Figure 1). All of the intersections broadcast signal phase and timing (SPaT) and MAP messages over DSRC and are connected to a 4G LTE backhaul. This provides an ideal living laboratory for industry partners interested in testing their connected vehicle applications. In addition, Caltrans has plans to expand the test bed to cover more intersections along El Camino Real in the near future.



**Figure 1: Map of California Connected Vehicle Testbed RSU locations**

Stay tuned for more information on the California Connected Vehicle Test bed in an upcoming article of Connected Auto. For now, please contact xxxx at California PATH for additional details on the

California Connected Vehicle Test Bed.  
**More pics**



**Savari RSU**



**Arada RSU**



**Test vehicle and OBE**



**DSRC Antenna at El Camino Real and California Ave.**