

# Arterial Travel Time - Chula Vista, CA



“Sensys Networks delivered a viable solution for the region’s arterial management and performance monitoring needs. The ease of implementation and technology capabilities provide a cost effective and comprehensive alternative for improved traffic operations, monitoring capabilities, and delivery of accurate travel times for our arterials.”

– Samuel Johnson  
Chief Technology Officer  
San Diego Association of Governments (SANDAG)



## Vehicle Re-ID for Accurate Travel Times

The San Diego Association of Governments (SANDAG) is comprised of San Diego County and 18 surrounding cities. As part of their mandate to improve regional mobility, the agency needed a cost-effective solution for obtaining accurate performance measures in order to quantifiably reduce congestion, enhance planning, and provide precise traveler information to San Diego area commuters.

SANDAG selected the **Sensys Networks Arterial Travel Time (ATT)** system for installation along Telegraph Canyon—a vital transportation corridor in the city of Chula Vista. The system’s infrastructure-based solution uses arrays of in-ground, wireless sensors communicating with Access Points (AP) installed at intervals along the roadway. As vehicles pass over the arrays, a unique magnetic signature is captured and recorded for positive re-identification of vehicles as they travel the roadway.

This data is paramount for determining vehicle count, delays, and travel times, as well as signal timing optimization. Occupancy and volume data is also determined by the Sensys Networks Re-Identification engine after backhaul via GPRS.

Compared to free probe data, with match rates under 2%, the ATT system reports up to 70% matches. This drastic improvement in obtaining performance measures enabled SANDAG to provide accurate traveler information to San Diego area commuters and emergency responders, and precise data for load balancing, signal optimization, and, an accurate view of traffic, 24 x 7.

### Dependable Technology

Our rugged in-pavement, wireless magnetic sensor —with a remarkable 10-year battery life—is the core of VDS240’s technology.

### Flexible Installation

From one intersection—to an entire region, install detection precisely where needed in less than 15 minutes per unit. No trenching—and easily removed—sensors are reusable should a roadway undergo resurfacing.

### Lowest Operating Cost

Virtually maintenance free, wireless sensors install in minutes—and begin transmitting accurate data almost immediately. Remotely managed diagnostics, software upgrades, and configuration streamlines operations, while significantly reducing long-term maintenance costs associated with less advanced technologies—a potential savings of millions of dollars a year.

### Universal Platform

Simplifying operations with comprehensive data communications, archiving, and management requirements for performance measurement and analysis, Sensys Networks Universal Platform easily integrates with legacy systems, and supports all traffic detection applications—with one set of tools.



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