

COLORADO DEPT. OF TRANSPORTATION TRUCK PARKING INFORMATION MANAGEMENT



DESIGN, DEPLOY &
MAINTAIN



INTELLIGENT
TRANSPORTATION



COST-EFFECTIVE
STRATEGIES



LOW POWER
CONSUMPTION



SMART
PARKING

The Colorado Department of Transportation (CDOT) reported that a real need has developed in its state for over-the-road truckers to have access to accurate, real-time, readily available information on parking and roadway conditions. To address these concerns, CDOT selected Truck Specialized Parking Services (TSPS) and subcontractor, eX² Technology, to implement a solution to provide truckers with the location of available truck parking spaces along its I-70 interstate corridor.

As part of this effort, eX² Technology provided design and implementation services and continues to provide ongoing monitoring and maintenance services for CDOT's TPIMS. The TPIMS collects and distributes parking availability data for two rest areas, two private truck stops and two dynamic message sign locations along Colorado's I-70 using in-pavement magnetic sensing and video analytics-based technology to perform screenline counting of trucks entering and exiting these sites. The TPIMS components are fully automated with a remote network monitoring system that provides operational, health and accuracy alerts. Truck parking

availability information is transmitted through a wireless network to reach dynamic message signs, existing in-cab routing systems and a hands-free, Federal Motor Carrier Safety Administration-compliant mobile app.

eX² worked closely with TSPS and CDOT to implement effective budgeting and cost-saving strategies by leveraging existing pole and site infrastructure and using lower power consumption solutions. Seeing the positive effects the TPIMS has on its state, Colorado is the planning stages to increase its number of TPIMS sites.

ABOUT US

eX² Technology is a single source solution for those seeking to build, scale or upgrade their communications infrastructure. We provide smart city, intelligent transportation, critical infrastructure and private network solutions and services with greater efficiency, less cost and a streamlined acquisition process. We specialize in turnkey network design-build-maintain services, asset commercialization and project financing.



TRANSFORMING
AMERICA'S INFRASTRUCTURE
ONE PARTNERSHIP AT A TIME™

eX² Technology, LLC
402.817.7970
marketing@ex2technology.com
www.ex2technology.com