



# I-10 Corridor Coalition Truck Parking Availability System (TPAS)

## **PROJECT OVERVIEW**

The I-10 Corridor Coalition, a volunteer coalition of state Departments of Transportation for California, Arizona, New Mexico, and Texas, was awarded a \$6.85 million U.S. Department of Transportation (USDOT) Advanced Transportation and Congestion Management Technologies Deployment (ATCMTD) grant in April 2019 to implement a Truck Parking Availability System (TPAS) along the I-10 corridor. In addition to the grant, the Coalition states are matching the funds 1:1, allowing the Coalition to leverage \$13.7 million for the TPAS project.

TPAS is a technology system that will detect, monitor, and disseminate truck parking availability information at 37 public truck parking locations along I-10 in California, Arizona, New Mexico, and Texas. The system will assist truck drivers and dispatchers in making informed parking decisions by providing real-time truck parking information through dynamic message signs, smartphone and in-cab applications, and via website and traveler information sites.

The implementation of TPAS may also serve as the foundation for future technology implementation along the I-10 Corridor, including integration of weather or other alert systems, a truck parking reservation system, and automated and connected vehicle and infrastructure technology.

# CALIFORNIA LOS ANGELE ARIZONA NEW MEXICO TEXAS HOUSTO LEGEND I-10 Corridor **Coalition States**



**TPAS Truck Parking Site** 

California	243 Miles	6 Sites
Arizona	392 Miles	8 Sites
New Mexico	164 Miles	5 Sites
Texas	881 Miles	18 Sites
Total	1,680 Miles	37 Sites

# I-10 TPAS TRUCK PARKING SITES

#### **PROJECT BENEFITS**

The I-10 Freight Corridor Study estimates the economic impact of freight moving along the I-10 Corridor at \$1.38 trillion annually. The I-10 Corridor Coalition TPAS project can help support the economic productivity of this critical commerce route.



Improves mobility and safety along this critical freight corridor.



*Reduces infrastructure* damage and diesel emissions.



Saves commercial truck drivers thousands of dollars a year in lost earnings and productivity.

> LEARN MORE AND SIGN UP FOR TPAS UPDATES: WWW.I10CONNECTS.COM

# CONCEPT OF OPERATIONS

The Coalition completed the draft I-10 TPAS Concept of Operations (ConOps) document providing a high-level understanding of a proposed system that collects and disseminates real-time truck parking availability information along I-10 in California, Arizona, New Mexico, and Texas. The ConOps gives guidance on the design of the system and outlines how it will be operated and maintained.

In Summer 2020, the Coalition posted a request for information (RFI) to solicit input from qualified industry experts on detection technology, data distribution, and smartphone and web-based applications. In addition, a Truck Driver and Dispatcher Baseline Survey was conducted and workshops were held with state trucking associations and the Owner-Operator Independent Drivers Association (OOIDA) to understand truck parking needs and driver behaviors. The RFI, the survey, and input from industry workshops provided valuable information for the development of the ConOps.

### HOW TPAS WORKS



Real-time truck parking availability will be provided on each Coalition state's traveler information site.



CALIFORNIA REAL-TIME TRAFFIC







ARIZONA DOT 511

NEW MEXICO NMROADS

DRIVE TEXAS



## TRUCK DRIVER AND DISPATCHER BASELINE SURVEY

In Fall 2020, the Coalition conducted a survey to gather input from commercial vehicle drivers and dispatchers to understand the challenges and issues drivers experience when attempting to park along the I-10 Corridor. The survey was announced through social media channels, posters at future truck parking sites, press releases, and online industry publication articles. The Coalition received over 500 responses to the survey from drivers and dispatchers.



#### PREFERRED METHOD FOR RECEIVING REAL-TIME INFORMATION





#### PREFERRED DYNAMIC MESSAGE SIGN

Respondents expressed a preference for signs that display at least two or three upcoming sites. They also preferred a sign that shows rest areas within five to 45 miles and the total number of available spaces.

### **PROJECT SCHEDULE**

The I-10 Corridor Coalition TPAS project will be fully deployed and operating within four years from the ATCMTD grant filing date of April 20, 2020. The tentative deployment date is scheduled for July 2024. Following deployment, the Coalition states will operate and maintain the system.



### NEXT STEPS

**Environmental Documentation:** All Coalition states have initiated environmental review and analysis for improvements in the rest areas where the TPAS technology will be deployed.

**System Design:** The Coalition states will develop final design plans, technical requirements, and specifications for the deployment of the TPAS system. The design will build upon the input gathered from virtual workshops with the trucking industry, the online I-10 TPAS Truck Driver and Dispatcher Survey, the I-10 TPAS ConOps, and high-level system requirements.

**Software Integration:** Each state will initiate the integration of truck parking availability software into their existing traffic management system and state traveler information system.

**Stakeholder Engagement:** Stakeholder engagement will be conducted throughout all phases of development to gather industry input and ensure the system meets the needs of the end users. Outreach efforts will continue to raise awareness of the I-10 TPAS and promote its benefits.





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