

DRISI

CALTRANS DIVISION OF RESEARCH,
INNOVATION AND SYSTEM INFORMATION

Research Notes

Traffic Operations

OCTOBER 2023

Project Title:
American Truck Parking
Maintenance Project

Task Number: 3637

Start Date: November 21, 2022

Completion Date: June 30, 2025

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American Truck Parking Maintenance Project

Maintain and update the American Truck Parking (ATP) project website and data and keep it current with existing web standards and protocols. It would further engage with Caltrans to identify pathways to incorporate ATP into the state's traveler information system.

WHAT IS THE NEED?

The American Truck Parking (ATP) project website delivers truck parking location and availability information to the state and broader country. The website requires standard preventive maintenance to maintain security updates, cover hosting and database costs, and implement improvements related to functionality consistent with contemporary website design and performance.

This project would provide maintenance services for the American Truck Parking (ATP) project website and data, located at www.americantruckparking.com, and keep it current with existing web standards and protocols. The purpose of maintaining the ATP website is to provide time engage with Caltrans to identify pathways to incorporate ATP into the state's traveler information system. Furthermore, the team will provide telephone and email consultation to Caltrans based on the severity of the problem within a certain response time.

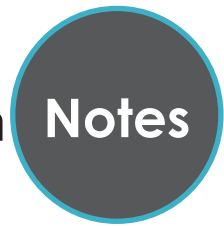
WHAT ARE WE DOING?

University of California, Berkeley will update and maintain the ATP website to remain current with contemporary design and security standards. This will include updating the security of the data transmission and display, as well as updates to certain user interface features to keep them current with existing website practices.

UC Berkeley would continue to expand static data of truck parking as well as pick up any dynamic truck parking availability feeds that may be accessible through other projects. Truck



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California's transportation system



parking data has generally been in poor shape, even within private databases that are only available through paid subscriptions.

WHAT IS OUR GOAL?

The goal for this project is to update core website licensed program and plugins. Back up site data. Check uptime logs. Check for unusually high bounce rates, unusual activity spikes, and site load times. Check for and fix broken links and ensure forms work properly. Test the website to ensure that it looks and displays properly on the most popular browsers and mobile devices.

The research team will connect with the appropriate staff within Caltrans to discuss how the content of ATP can be best incorporated into the traveler information feeds disseminated by Caltrans. This will be executed through a series of meetings and plans to navigate the complexities and information needs of Caltrans. The result of these discussions will result in a plan describing the most viable approach to further integrate and/or share ATP information with Caltrans traveler information systems.

WHAT IS THE BENEFIT?

The purpose of maintaining the ATP website is to provide time engage with Caltrans to identify pathways to incorporate ATP into the state's traveler information system. Furthermore, the team will provide telephone and email consultation to Caltrans based on the severity of the problem within a certain response time.

WHAT IS THE PROGRESS TO DATE?

The project has an on-going security update. The site PHP version and other supporting software need an integrated update to maintain security that are consistent with current standards. This update applies to multiple components of the system and may require some redesign for site functions to be compatible with current software versions and standards. The update would be considered complete once all software supporting the site meets the latest available standards (at the time of update implementation).

The Dynamic Parking Information is currently not working, the research group will investigate the server and start to make adjustment for the information. The cause has yet to be identify, but the research group should have this fix by next quarter.

IMAGES



Image 1: The website overlay in desktop mode and mobile mode.