

## TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): [California Department of Transportation \(Caltrans\)](#)

**INSTRUCTIONS:**

*Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.*

<b>Transportation Pooled Fund Program Project #</b> <i>(i.e., SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i>  <a href="#">TPF-5(357)</a>	<b>Transportation Pooled Fund Program - Report Period:</b> <input type="checkbox"/> Quarter 1 (January 1 – March 31) <input type="checkbox"/> Quarter 2 (April 1 – June 30) <input checked="" type="checkbox"/> Quarter 3 (July 1 – September 30) <input type="checkbox"/> Quarter 4 (October 1 – December 31)	
<b>Project Title:</b> <a href="#">Connecting the DOTs: Implementing ShakeCast Across Multiple State Departments of Transportation for Rapid Post-Earthquake Response</a>		
<b>Name of Project Manager(s):</b> <a href="#">Yue Wang</a>	<b>Phone Number:</b> <a href="#">916-227-8349</a>	<b>E-Mail</b> <a href="mailto:Yue.Wang@dot.ca.gov">Yue.Wang@dot.ca.gov</a>
<b>Lead Agency Project ID:</b> <a href="#">Task ID 2949, Project ID P1132</a>	<b>Other Project ID (i.e., contract #):</b> <a href="#">Contract # 65A0658</a>	<b>Project Start Date:</b> <a href="#">1/18/17</a>
<b>Original Project End Date:</b> <a href="#">6/30/20</a>	<b>Current Project End Date:</b> <a href="#">9/30/20</a>	<b>Number of Extensions:</b> <a href="#">none</a>

Project schedule status:

On schedule  
  On revised schedule  
  Ahead of schedule  
  Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Percentage of Work Completed to Date
<a href="#">\$450,000</a>	<a href="#">\$157,462.59</a>	<a href="#">40%</a>

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
<a href="#">\$157,462.59</a>	<a href="#">\$2,982.59</a>	<a href="#">40%</a>

**Project Description:**

The California Department of Transportation (Caltrans) is organizing and leading the Transportation Pooled Fund (TPF) project, "Connecting the DOTs: Implementing ShakeCast Across Multiple State Departments of Transportation for Rapid Post-Earthquake Response," study number TPF-5(357) (<http://www.pooledfund.org/Details/Study/609>). Ten State Departments of Transportation (DOT) have committed funds and are key partners on this multi-state DOT project.

ShakeCast is a web-based tool that delivers an assessment of potential impacts to highway structures within minutes of an earthquake, raising situational awareness and improving emergency response for executive decision makers, traffic management center operators, and maintenance staff.

This TPF project seeks to achieve two primary objectives. First, it will bring participating DOTs into full ShakeCast operation for post-earthquake assessment of state and local bridge inventories. Second, the project will provide a mechanism to actively engage representatives from state DOTs with common interests in implementing and expanding the application of ShakeCast technologies to improve emergency response capabilities.

**Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):****Progress**

- Continued to provide Interim Report on DOT-specific deployment requirements
- Completed the Establishment of the cloud-hosted ShakeCast systems
- Completed the survey data analysis collected from the subtask 1.1-Capture DOT-Specific ShakeCast Deployment Requirements. Completed the verification of DOT-specific ShakeCast functionality and the assessment of the existing IT environment and policy requirements of individual DOT's and identified the method to deploy the ShakeCast v3 system.
- Continued to provide cloud-hosted ShakeCast systems for each participating DOT. The confirm process of each DOT's ShakeCast system was completed.
- Provided training sessions and related course materials to the partner DOTs

**Anticipated work next quarter:**

The following work is anticipated for next quarter:

- Continue the previous work in establishing Operational ShakeCast Systems and provide Interim Report on DOT-specific deployment requirements.
- Continue the assessment of the existing IT environment and policy requirements of individual DOT's to figure out the technology alternatives for deploying the ShakeCast v3 system.
- Continue the maintenance of the cloud-hosted ShakeCast systems for each participating DOTs. To complete the confirmation of the establishment of each DOT's ShakeCast system.
- Start to develop a Roadmap for Long-Term ShakeCast Implementation

**Significant Results:**

Nothing to report at this time.

**Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope and fiscal constraints set forth in the agreement, along with recommended solutions to those problems).**

Nothing to report at this time.

**Potential Implementation:**

Nothing to report at this time.