

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.

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

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 |
|----------------------|--------------------------------|--------------------------------------|
| \$450,000 | TBD* | 45% |

Quarterly Project Statistics:

| Total Project Expenses and Percentage This Quarter | Total Amount of Funds Expended This Quarter | Total Percentage of Time Used to Date |
|--|---|---------------------------------------|
| TBD* | TBD* | 45% |

*The data will be updated once it is available.

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 establish Operational ShakeCast Systems and provide Interim Report on DOT-specific deployment requirements. Prepared the Interim Report synthesizing ShakeCast features and improvements
- Continued 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.
- Continued the maintenance of the ShakeCast Cloud hosting. Completed the confirmation process of the establishment of each DOT's ShakeCast system
- Collected the required information from the partner states and started the development of the Roadmap for Long-Term ShakeCast Implementation

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.
- Continued to provide the ShakeCast Cloud hosting.
- Continue 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.