

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 # TPF-5(357) | | Transportation Pooled Fund Program - Report Period: <input type="checkbox"/> Quarter 1 (January 1 – March 31) <input checked="" type="checkbox"/> Quarter 2 (April 1 – June 30) <input type="checkbox"/> Quarter 3 (July 1 – September 30) <input 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): Sharon Yen | Phone Number: 916-208-7771 | E-Mail Sharon.yen@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: 9/30/22 | Number of Extensions: 1 | |

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 | \$355,298 | 60% |

Quarterly Project Statistics:

| Total Project Expenses and Percentage This Quarter | Total Amount of Funds Expended This Quarter | Total Percentage of Time Used to Date |
|--|---|---------------------------------------|
| \$60,520 | \$60,520 | 61% |

Project Description:

The California Department of Transportation (Caltrans) is organizing and leading the 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.):**Contract Status**

- USGS continued the effort in providing technical support and assistance to participating DOT partners.
- USGS continued the effort to work on providing ShakeCast cloud hosting to participating DOTs.
- ShakeCast team continued communications with other DOTs about ShakeCast and to join the TPF.
- ShakeCast team continued the development of new features and improvements to the current ShakeCast system.
- Completed migration of Caltrans ShakeCast system onto USGS server.

Anticipated work next quarter:

The following work is anticipated for next quarter:

- USGS to continue the effort in providing technical support and assistance to participating DOT partners.
- USGS to continue the effort to work on providing ShakeCast cloud hosting to participating DOTs.
- ShakeCast team to continue communications with other DOTs about ShakeCast and to join the TPF.

A meeting with partnering states will be schedule in August regarding to project time extension, current require funding, future funding of ShakeCast, and project long-term goal and workplan. The meeting will also focus on system features development and State specific system features wish list.

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).

In order to complete the scope of work tasked for the 2 years extension, additional funding commitment from each partner State is required. Additional funding commitment from every partner state might be difficult to achieve due to the available resources of the States. A solution can be solicitation of other States currently not part of the pooled fund to join or inquire funding from FHWA in establishing long-term nation-wide strategic plan for project support.

Potential Implementation:

Nothing to report at this time.