

Pavement**May 2026****Project Title:**Technology Transfer Concrete
Consortium, TPF-5(544)**Task Number:** 4901**Start Date:** January 01, 2025**Completion Date:** January 31, 2030**Task Manager:**Somayeh Mafi
Senior Transportation Engineer
Somayeh.Mafi@dot.ca.gov**DRISI Division Chief:**Prakash Sah, PE
Prakash.Sah@dot.ca.gov

Technology Transfer Concrete Consortium, TPF-5(544)

Improving Concrete Pavement Performance Through Innovation and Collaboration.

WHAT IS THE NEED?

State departments of transportation, including Caltrans, face increasing pressure to deliver longer-lasting concrete pavements that improve performance and user satisfaction while managing costs and sustainability goals. Achieving this requires continuous innovation in materials, design, and construction practices; however, identifying and implementing effective solutions can be difficult without coordinated research and collaboration. This pooled fund effort provides a structured platform for Caltrans and other agencies to work with FHWA, academia, and industry to identify research needs, develop and support targeted studies, and facilitate technology transfer. As part of a broader multi-agency initiative, this effort ensures that research priorities are aligned, resources are leveraged efficiently, and proven innovations are shared and implemented to improve concrete pavement performance statewide and nationally.

WHAT ARE WE DOING?

The research collaboratively identifies, develops, and supports concrete pavement research and technology transfer initiatives. Through ongoing coordination with FHWA, state DOTs, academia, and industry, the team works to define research needs, develop pooled fund proposals, and facilitate studies that address key challenges in concrete pavement design and construction. Activities are carried out throughout the year and include organizing and participating in technical meetings and conferences, developing agendas and work plans, supporting communication efforts such as newsletters and technical briefs, and promoting knowledge exchange among members. These efforts ensure that research priorities are continuously evaluated, findings are shared, and practical solutions are advanced and implemented.



DRISI provides solutions and knowledge that improves California's transportation system.

WHAT IS OUR GOAL?

The goal of this pooled fund effort is to identify and advance high-priority research and technology transfer initiatives that improve the performance and longevity of concrete pavements. The expected outcome is a coordinated set of research projects, technical guidance, and outreach materials that translate new knowledge into practical applications. The end products include funded research studies, published technical briefs, and shared best practices that support more durable, cost-effective, and innovative concrete pavement solutions.

WHAT IS THE BENEFIT?

This pooled fund effort benefits Caltrans by providing access to national research, expertise, and technology transfer initiatives that support the development of longer-lasting, higher-performing concrete pavements. Through collaboration with FHWA, other state DOTs, academia, and industry, Caltrans can more effectively identify and implement innovative materials, design approaches, and construction practices that improve durability, reduce life-cycle costs, and enhance user satisfaction. The shared research and resulting guidance also help align California's practices with national standards while contributing to broader improvements in concrete pavement performance across participating agencies.

WHAT IS THE PROGRESS TO DATE?

- All outstanding travel expense reimbursements for the fall conference were completed.
- The dates and locations of the Spring 2026 meeting were finalized. It will be held at the Sheraton San Diego Bayview in San Diego, CA, from April 7th to 9th, 2026.
- The executive committee held several meetings and completed a draft agenda for the spring meeting.

- CP Tech Center staff attended the Arizona Pavements and Materials Conference. While this was not a pooled fund activity and the travel was funded using outside resources, they used this opportunity to discuss the pooled fund with Arizona DOT staff and gauge their interest in joining.
- Planning began for the Fall 2026 meeting, which will be held in Kansas City, MO, with both Kansas DOT and Missouri DOT serving as host states.