

# DRISI

CALTRANS DIVISION OF RESEARCH,  
INNOVATION AND SYSTEM INFORMATION

# Research Notes

Pavement

MAY 2024

Project Title:  
Partnered Pavement Research  
Center (PPRC) 23: Sustainability

Task Number: 4099

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## Pilot testing for feasibility of technologies for inventorying complete streets assets and condition evaluation rating system

Advancing complete street asset management: Evaluating the feasibility of technologies for inventorying complete streets assets

### WHAT IS THE NEED?

This task order tries to address a critical gap in asset management practices concerning pedestrian and bicycle facilities, particularly in the context of implementing complete streets. These facilities play a crucial role in providing accessibility to multimodal transportation services, yet they often lack comprehensive asset management strategies. Existing methods for evaluating and maintaining these facilities are inadequate; therefore, it is essential to capitalize on technological advancements, such as Light Detection and Ranging (LIDAR), to assess the condition of Ped/Bike facilities.

### WHAT ARE WE DOING?

This task order aims to address the critical need for asset management practices concerning pedestrian and bicycle facilities within the context of complete streets. Building on the comprehensive roadmap proposed to Caltrans under the previous contract, this task order integrates complete streets features into routine asset management. Leveraging insights from past efforts, the research team is now focused on two primary tasks. Firstly, conducting a thorough technology literature review to assess methods for inventorying sidewalks and bike paths, considering the established condition inventory and maintenance decision framework. Secondly, evaluating the applicability of LiDAR and other available data from Caltrans and the Georgia DOT to analyze and deliver essential information for sidewalk inventory, condition assessment, and ADA compliance checking.



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## WHAT IS OUR GOAL?

This task outlines a clear plan for Caltrans for inventorying sidewalks and complete streets and using the information to program maintenance within an asset management system.

## WHAT IS THE BENEFIT?

This technological approach offers the promise of optimizing resource allocation and expediting decision-making, contributing to sustainable transportation infrastructure for all users.

## WHAT IS THE PROGRESS TO DATE?

This task order has been approved, and a contract has been established with Georgia Tech. Communication has started with Caltrans and Georgia Tech (1% of the work has been completed).