

Research

Notes



AUGUST 2022

Project Title: Statewide Data Collection Strategic Plan

Task Number: 3834

Start Date: February 1, 2021

Completion Date: January 31, 2022

Task Manager: Frank Law Project Manager frank.law@dot.ca.gov

Statewide Data Collection Strategic Plan

Create a strategic plan that will leverage existing technologies for implementing an enterprise-wide approach to data collection and procurement

WHAT IS THE NEED?

Caltrans lags behind other State departments of transportation (DOTs) by not implementing a unified and coordinated statewide approach to data collection and management. This plan will help to minimize duplication and maximizes data value and operational efficiency through a collect once, use it many times approach.

WHAT ARE WE DOING?

The approach for the Statewide Data Collection Strategic plan is comprised of six tasks below:

- Task 1: Project management and facilitation of teamwork and communication
- Task 2: Review existing data deficiencies and needs
- Task 3: Stakeholder outreach
- Task 4: Determine best practices to manage the data lifecycle
- Task 5: Synthesize findings to propose strategic plan
- Task 6: Pilot technology demonstration



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

ADA Notice: Users with accessibility issues may contact the California Department of Transportation, Division of Research, Innovation and System Information. For TTY assistance, call the California Relay Service at 711, email: Drisi.Communications@dot.ca.gov or write Caltrans, DRISI – MS-83, P.O. Box 942873 Sacramento, CA 94273-0001



Statewide Data Collection Strategic Plan

Research

Notes

WHAT IS OUR GOAL?

The objectives of this research project are:

- To develop a coordinated and repeatable process to evaluate and prioritize what, where, when, why, and how data should be acquired.
- To implement a coordinated statewide field asset data collection strategy based on a collect once, use it many times approach.
- To implement a coordinated statewide data procurement practice based on a procure once, use it many times approach.
- To identify data storage, discovery and access solution.
- To clearly define the roles and responsibilities of stakeholders who will help implement the plan.

WHAT IS THE BENEFIT?

This project will help achieving significant net cost savings by capitalizing on the efficiencies gained through a "collect once, use it many times" strategy, maturing beyond a traditional siloed approach that has led to redundant data collection efforts covering the same study areas multiple times.

WHAT IS THE PROGRESS TO DATE?

Caltrans seeks to hire the experts at University of California, Berkeley and University of California, San Diego to develop the statewide data collection strategic plan.

The project is completed. The final report was submitted and accepted by the project panel. Plan For Next Quarter:

Project closeout is planned for the next quarter.

The contents of this document reflect the views of the authors, who are responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the California Department of Transportation, the State of California, or the Federal Highway Administration. This document does not constitute a standard, specification, or regulation. No part of this publication should be construed as an endorsement for a commercial product, manufacturer, contractor, or consultant. Any trade names or photos of commercial products appearing in this document are for clarity only.