

# DRISI

CALTRANS DIVISION OF RESEARCH,  
INNOVATION AND SYSTEM INFORMATION

TRANSFORMING IDEAS INTO SOLUTIONS

# Research

# Notes

Planning, Policy  
and  
Programming

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Project Title:  
Quantitative Performance Measures  
for the Caltrans System Investment  
Strategy

Task Number: 4169

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Task Manager:  
Stuart Mori  
Associate Transportation Planner  
stuart.mori@dot.ca.gov

## Quantitative Performance Measures for the Caltrans System Investment Strategy

Aligning Project Nominations with the Climate Action Plan for  
Transportation Infrastructure Investment Framework

### WHAT IS THE NEED?

The Climate Action Plan for Transportation Infrastructure (CAPTI), developed by the California State Transportation Agency (CalSTA), identifies key actions necessary for implementation of the CalSTA sections of Executive Order N-19-19 and Executive Order N-79-20.

Under CAPTI Strategy 4.1, Caltrans is directed to, "Develop and Implement the Caltrans System Investment Strategy (CSIS) to Align Caltrans Project Nominations with the CAPTI Investment Framework". The Office of System Investment Planning has commenced work on the Interim CSIS, which defines a qualitative assessment of project alignment with the CAPTI Investment Framework.

More research is needed to establish criteria and measurement methodologies for programs identified in the CSIS. The CSIS will align project scoring criteria for project nominations with the key actions of the CAPTI.

### WHAT ARE WE DOING?

Researchers will identify various project types, performance measures and metrics.

They will then document data sources, methodologies/ calculations, applicable modes, and geographic areas. After establishing a framework for project nomination based on the metrics, researchers will develop an experimental spreadsheet-based tool and train Caltrans planners and other stakeholders on using the tool through a webinar, a handbook, and final report on the methodology.



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California's transportation system

## WHAT IS OUR GOAL?

This research aims to develop a robust set of quantitative performance metrics, measures, and methodologies to assess project alignment with the future CAPTI. The outcome of this research will allow for a data- and performance-driven approach to project evaluation and nomination that will complement the final CSIS 2.0 document and assist with implementation of CSIS principles as projects are assessed in future transportation funding programs.

## WHAT IS THE BENEFIT?

This research will identify measurement methodologies for programs identified in the Interim CSIS to support the key goals of the CAPTI.

## WHAT IS THE PROGRESS TO DATE?

The kick-off meeting was conducted on May 1, 2023. Panel reviewed Tasks 3 (data sources, methodologies and calculations) and 4 (project evaluation and nominations). The panel met in November to determine next steps, including finalization of the tool and planning for the training session.

## IMAGES



Image 1: Inclusive infrastructure for climate-conscious planning (Credit: UNOPS)