

Smart Mobility Framework

Implementation Pilot Study

Smart Mobility
FRAMEWORK



Caltrans is developing strategies and methodologies for integrating Smart Mobility principles, concepts, and performance measures in accordance with the Smart Mobility Framework (SMF) as described in the document *Smart Mobility 2010: A Call to Action for the New Decade*.

This work is in response to a number of State mandates to reduce greenhouse gas emissions from the transportation sector, as well as to enhance California's environment, economy and equity (the 3 E's).

Literature & Practice in Progress Review

In order to identify the leading edge of sustainable and multi-modal transportation practice and how it may be applied in California, subject matter experts and literature review sources will be identified that focus on developments in research, guidance, performance measures, and tools completed or under development since the release of the Smart Mobility Framework in 2010.

Pilot Area 1 (PA1)

Integrating SMF principles and performance measures into existing Caltrans processes

A second generation Corridor System Management Plan (CSMP) is being developed and shaped with the SMF principles using the I-680 corridor within Contra Costa County in Caltrans District 4. This pilot study is a supplementary and complementary effort to the ongoing CSMP processes with focus on the application, refinement, and testing of the principles, planning concepts and performance measures contained in the SMF for the corridor plan. As part of the effort, a Highway Capacity Manual 2010 multimodal level of service analysis will be conducted on identified parallel arterials. The SMF consultant plays an important advisory role on the CSMP team.

The goal of PA1 is to compile the findings of this SMF/CSMP testing and evaluation and present it in a fashion that can be used to guide Caltrans' future system planning and facility development.

Pilot Area 2 (PA2)

More fully integrate SMF principles into sub-regional transportation and land use planning processes

SMF principles and performance measures will be applied to assess future projects for a sub-regional long range transportation plan. The work compares SMF performance measures to conventional transportation performance measures. This work focuses on the South Bay Cities Council of Governments region and builds off of Los Angeles County Metropolitan Transportation Authority's existing performance measures and an alternative Smart Mobility assessment framework. The SMF principles are used to inform and more fully integrate Caltrans work on sub-regional long range transportation plans with local land use plans and the regional Sustainable Communities Strategy.

The goal for PA2 is to develop a suite of easy-to-use processes and tools (e.g., Excel spreadsheets) to apply the framework toward best practices for regional planning products, project analysis, and ultimately infrastructure decision making.

Expected Results

The results of the study will be briefings, best practices materials, and recommendations for incorporation of the SMF in planning practice. The goal is to consolidate the lessons learned from the development, testing, and evaluation of the processes, methodologies, and results of applying the SMF. Final products will present best practices, performance measures, and a replicable process for incorporating Smart Mobility into comparable efforts throughout the Department and partner agencies' work.



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