

What is the State Highway System Management Plan?

The SHSMP presents a performance-based framework that guides decision-making and priorities for maintenance, operations and rehabilitation investments

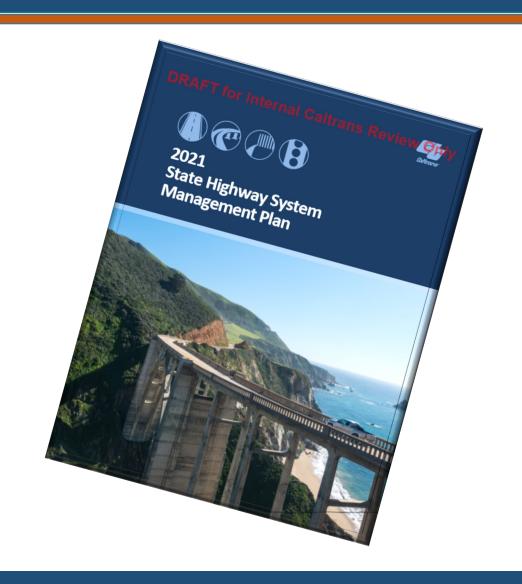
Updated every 2 years (in odd number years)

Federal and State Requirements:

- California Streets and Highway Code (SHC), Section 164.6
- Assembly Bill 515 combine 10-Year SHOPP and 5-Year Maintenance Plans
- MAP-21 and FAST Act.

Departmental Requirements:

Aligns the Highway Maintenance (HM) program and the State Highway Operation and Protection Program (SHOPP) with the Strategic Management Plan.



The 2021 SHSMP Spans 10 Years



Performance-Based Asset Management Approach

Needs Assessment

- Conduct a performance management analysis to determine the total needs, <u>unconstrained by</u> <u>funding.</u>
- Estimate the costs
 necessary to close all
 condition and
 performance gaps.
- Goal constrained analysis.

Revenue and Financial Projections

 Determine funding and resources available over the 10-year SHSMP period.

Investment Plan

- Define how available funding is recommended to be allocated.
- Prioritize where available resources should be focused to keep highways functioning with constrained funding.
- Estimate the performance metrics anticipated to be achieved.
- <u>Fiscally constrained</u> analysis.

Needs Assessment Approach

STEP 1 – Asset Inventory

Establish an asset inventory or deficiency level.

STEP 2 – Baseline & Projected Condition

• Establish the baseline and projected future condition of each objective.

STEP 3 – Target Condition

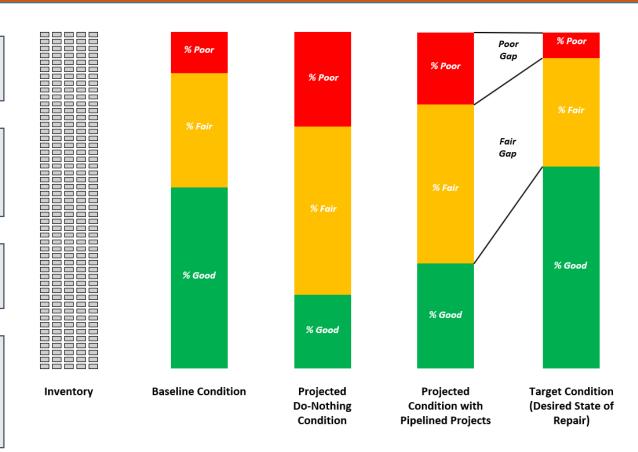
• Establish targets to achieve desired state of repair.

STEP 4 – Performance Gaps

 Perform a gap analysis between the projected condition in 10 years, considering pipelined projects, and the performance targets.

STEP 5 – Cost to Close Performance Gaps

• Estimate the cost to close the performance gaps.



Needs Assessment Summary

- Total 10 Year SHOPP Needs is \$116 Billion over the 10 year period
- Increase from previous plan largely due to the maturation of our Asset Management program, completion of planning efforts and better data.
- An initial needs assessment of complete streets and sea level rise mitigation is included in the plan.



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Fiscally Constrained Investment Plan

- State regulations require that we produce an unconstrained needs assessment and a fiscally constrained investment plan.
- Funds available for the investment plan is approximately \$46 billion over the 10 year period.
- This investment plan continues our commitment to "Fix it First" with almost \$27 billion of the investment in four core asset classes
- This plan also proposes almost \$1.6 billion in bicycle and pedestrian investments over the next 10 years.



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Draft Constrained Investment Plan (Excerpts)

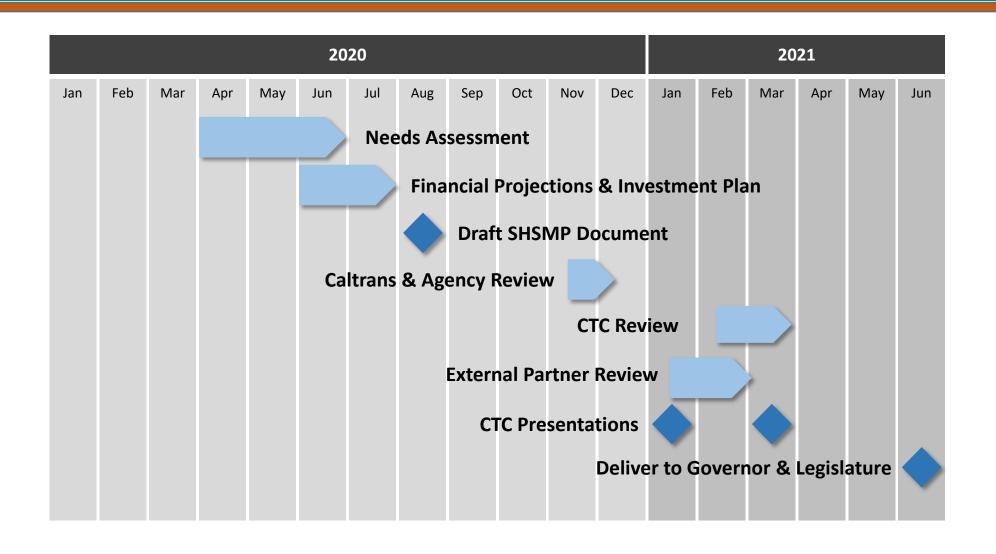
Objectives		SHOPP Investment (\$M)			Maintenance (\$M)			
		Pipeline	Gap	Total 10-yr	Major Maintenance	Field Maintenance Crews	Amount of Performance Gap Funded	Strategic Goal
Primary Assets		\$13,335	\$13,460	\$26,795	\$4,903	\$1,515		
Pavement	Class 1	\$4,732	\$5,279	\$10,011	\$3,230	\$181	100%	Stewardship
	Class 2	\$3,034	\$3,097	\$6,131			100%	Stewardship
	Class 3	\$313	\$308	\$621			100%	Stewardship
Bridge and Tunnel Health		\$1,654	\$3,024	\$4,679	\$1,321	\$822	56%	Stewardship
Drainage Restoration		\$1,766	\$1,158	\$2,924	\$267	\$249	92%	Stewardship
Transportation Management Systems		\$1,835	\$594	\$2,429	\$85	\$263	72%	Stewardship

First 5 Years Last 5 Years



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2021 SHSMP Timeline



SHSMP Questions?



Virtual Project Book

- Caltrans is pleased to announce the Virtual Project Book dashboard
- Publicly available database of all programmed and planned SHOPP projects for the coming 10 years.
- The Project Book allows projects to searched by numerous criteria or by map location.
- The project book is intended to improve transparency and provide greater opportunity for public engagement on SHOPP projects
- The dashboard supports mapping and data queries can be downloaded for local use.

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Video Demo

• CTC staff to play Virtual Project Book demo video