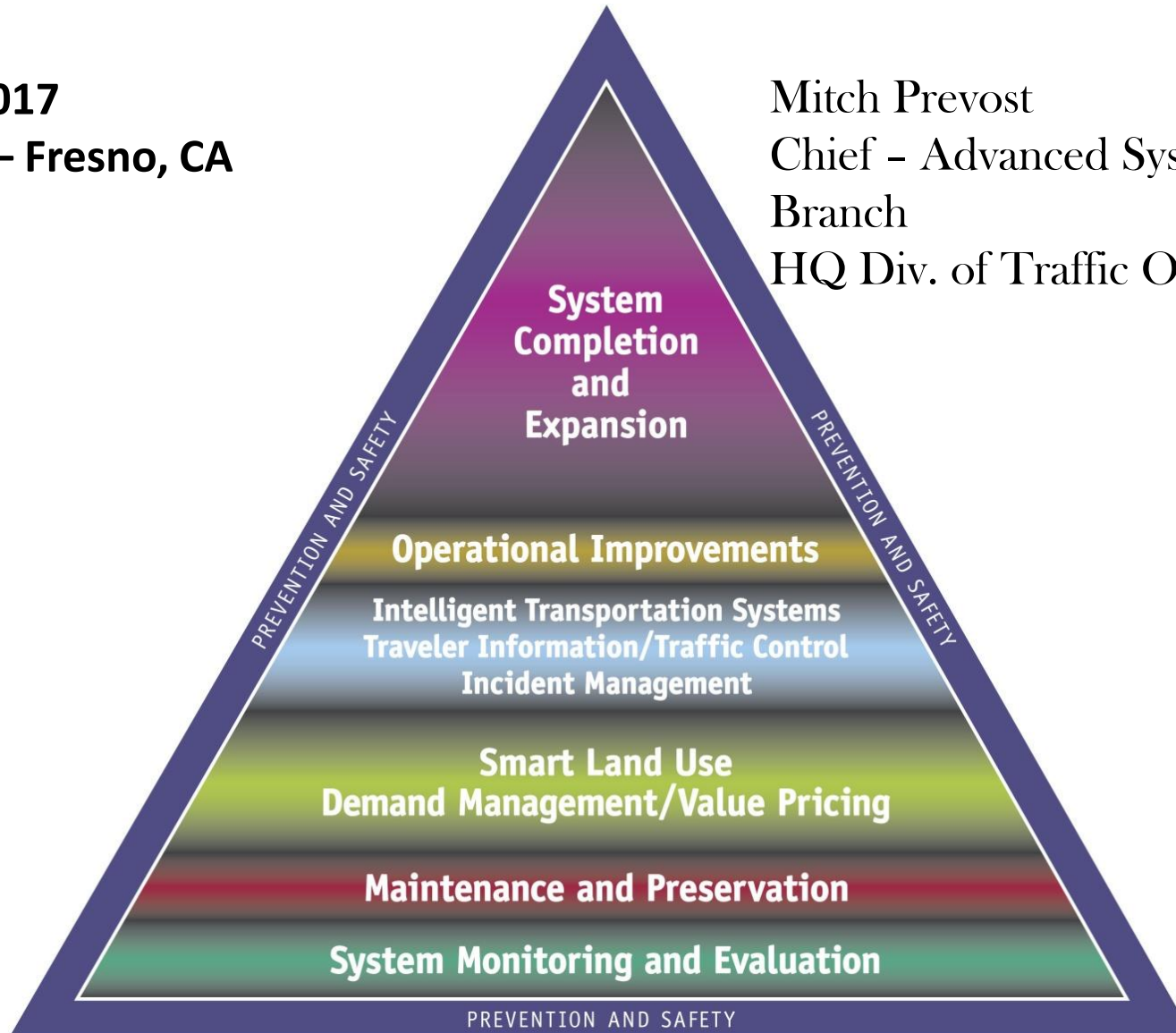


Regional Operations Forum Transportation Systems Management & Operations

TSMO Caltrans Statewide Perspective

July 25-26, 2017
Caltrans D 6 – Fresno, CA

Mitch Prevost
Chief – Advanced System Management
Branch
HQ Div. of Traffic Operations



Transportation Investments have more impact if built upon this foundation

What is Transportation System Management and Operations (TSMO)?

FHWA -

- "an integrated program to optimize the performance of existing multimodal infrastructure through implementation of systems, services, and projects to preserve capacity and improve security, safety, and reliability ..."

Caltrans

- In partnership with transportation stakeholders, TSMO uses real-time traffic management to improve safety, improve travel time reliability while adhering to statewide standards and consistency with federal rules and regulations.

Transportation Systems Management & Operations

Traditional Approach to Managing Transportation

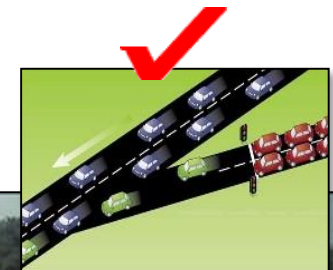
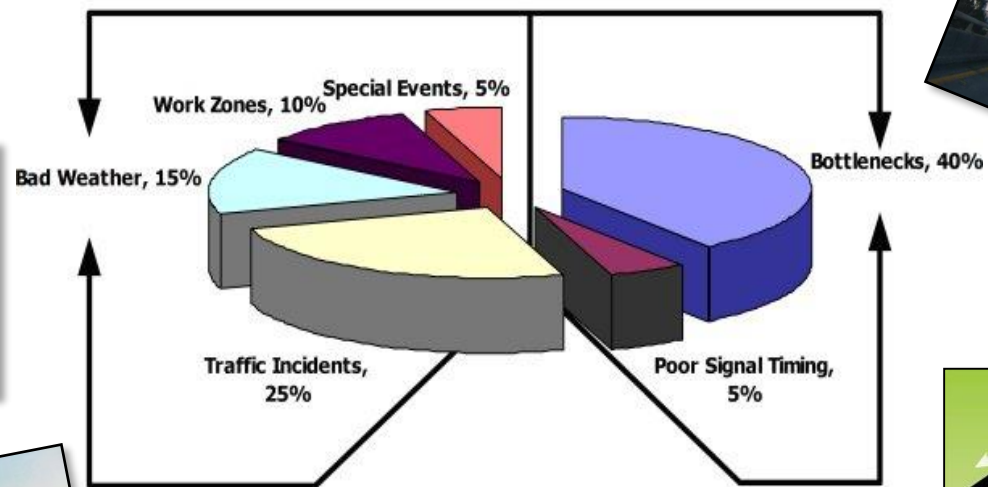
- Predict future (long range) traffic volumes
- Fund major capital projects to provide additional capacity
- Also becoming more and more difficult to provide new capacity
- This only addresses 45% of the congestion problem

New Focus on Managing Transportation

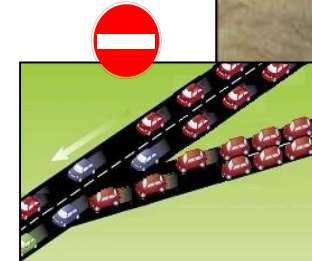


Non-recurrent Congestion = 55%

Recurrent Congestion = 45%



Delay



The Caltrans move towards TSMO

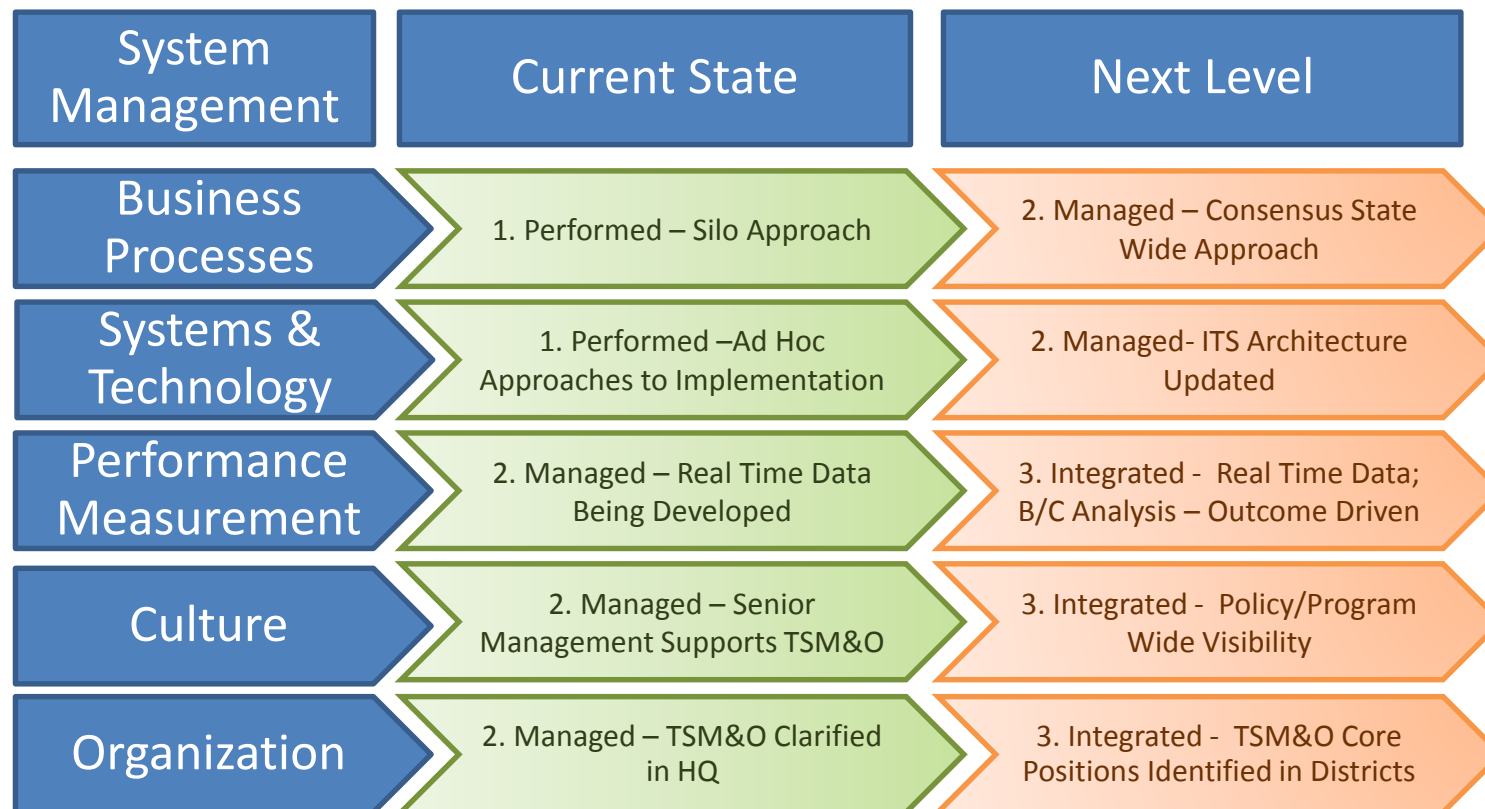
The FHWA recognized the need for transportation agencies to manage and operate the transportation network as effectively as possible to meet customers' demands for safety, mobility, and reliability.

L01 - Guide to integrating Business Processes to Improve Travel Time Reliability

L06 – Organizing Transportation Agencies to Advance Systems Operations and Management

TSMO Capability Maturity Model (CMM) Assessment

- 2013 Caltrans became a lead adopter for the FHWA Organizing for Reliability Project.
- Organizational assessment of current TSMO capabilities using the CMM



2014 Caltrans TSMO Capability Maturity Model Implementation Plan

- Provides the basis for key crosscutting TSMO priorities and identifies leads for each action

Directors Policy DP-08-R1 (Draft)

- Supports a system management culture including system planning, design, operations and maintenance strategies to improve system performance.

TSMO Regional Operations Forums

- Provides an environment for stakeholders to develop strategies to improve system management and Operations
- Districts 3,4,6,7,8,9,10,11,12

Transportation Systems Management & Operations

TSMO Goals *

System Management Culture / Performance-Based / Well-Maintained / Cooperative Management / Consensus on Standards /

- Create a system management culture.
- Performance-based framework for all TMS work activities and funding prioritization.
- Establish a well-maintained and high-performing TMS infrastructure that supports real-time traffic management.
- Cooperatively develop and implement real-time (active) traffic management to optimize flow, safety and aid regions and the State to meet greenhouse gas reduction (GHG) targets from transportation.
- Renew consensus on and adhere to critical statewide standards.



** From Caltrans 2013 TMS Business Plan*

Transportation System Management & Operations – Statewide Perspective

Thank You!

