

TSM&O Overview

- MAP-21 requires and Federal Highways Program encourages *demonstrable* transportation network *improvements* in safety, performance, reliability and environmental sustainability.
 - MAP-21
 - Goals and Performance Measures
 - Performance Based Management
 - Asset Management
 - Strategic Highway Research Program (SHRP2) Initiative
 - Integrated Corridor Management (ICM) Initiative

TSM&O Overview – WHAT

- Expanded NHS
 - Includes Principal Arterials, intermodal connectors
 - Pre MAP-21 CA: 7,155 miles
 - Post MAP-21 CA: 14,149 miles

U.S. Department of Transportation
Federal Highway Administration

-  Eisenhower Interstate System
-  Other NHS Routes
-  Non-Interstate STRAHNET Route
-  STRAHNET Connector
-  Intermodal Connector
-  Intermodal/STRAHNET Connector
-  Unbuilt NHS Routes
-  MAP-21 NHS Principal Arterials

 Census Urbanized Areas

 Department of Defense

 Water

-  Airport
-  Intercity Bus Terminal
-  Ferry Terminal
-  Truck/Pipeline Terminal
-  Multipurpose Passenger Facility
-  Port Terminal
-  Truck/Rail Facility
-  AMTRAK Station
-  Public Transit Station



TSM&O Overview - WHY

- Improve effectiveness of State and Local TSM&O activities
 - Key Program, process and organizational capabilities essential
 - Aimed at activities in State, regional and local transportation agencies

TSM&O Overview - HOW

- SHRP2 – First 6 Rounds
 - Organizing for Reliability Tools (L01/L06/L31/L34)
 - Lead Adopter; Caltrans
 - Economic Analysis Tools (C03/C11)
 - Lead Adopter; Caltrans
 - Advanced Travel Analysis Tools for Integrated Travel Demand Modeling (C10/C04/C05/C16)
 - Proof of Concept; MTC
 - WISE: Work Zone Impacts and Strategies Estimator Software (R11)
 - Proof of Concept; AMBAG
 - PlanWorks (C01)
 - Lead Adopter; Caltrans

TSM&O Overview - HOW

- Round 7 opened April 1, 2016, closes April 29, 2016
 - Reliability Data and Analysis Tools (L02/ L05/ L07/ L08/ C11)
 - Reliability in Simulation and Planning Models (L04)
 - Regional Operations Forum (L36)
 - PlanWorks: Better planning. Better projects (C01)

www.fhwa.dot.gov/GoSHRP2

TSM&O Overview - HOW

- Capability Maturity Frameworks
 - Planned Special Events
 - Traffic Management
 - Traffic Incident Management
 - Work Zone Management
 - Road Weather Management
 - Traffic Signal Control

TSM&O Overview - HOW

- ICM Planning Grants
 - \$200,000
 - Concept of Operations, System Requirements, AMS, PMP
 - 33 applications
 - 13 Awarded
- Past Grants: I-15 ICM Demonstration

2015 ICM Grant Awardees



CA Contra Costa SR-4

CCTA, Caltrans D4, MTC, BART, TRANSPLAN, TRANSPAC, Tri-Delta Transit, CCCTA, WETA, and cities and counties of Antioch, Pittsburg, Oakley, Brentwood, Concord, Martinez, Hercules, and Contra Costa County

2015 ICM Grant Awardees



New Grant Opportunities

- FASTLANE Grants; Nationally Significant Freight and Highway Projects
 - Applications due April 14, 2016, 8:00PM ET
 - \$800 Million in grants
 - 60% Federal share

<https://www.transportation.gov/FASTLANEgrants>

New Grant Opportunities

- Surface Transportation Systems Funding Alternatives (STSFA)
 - Applications due May 20, 2016, 5:00PM ET
 - \$15 Million in grants
 - 50% Federal share
- Demonstrate user based alternative revenue mechanisms that utilize a user fee structure

New Grant Opportunities

- Advanced Transportation and Congestion Management Technologies Deployment (ATCMTD)
 - Applications due June 3, 2016, 3:00PM ET
 - \$60 Million in grants
 - 50% Federal share
- Develop model deployments of large scale implementation and operation of a diverse set of advanced transportation technologies