



Presentation Outline

- 101 Corridor Profile
- System Deficiencies
- Background
- Managed Lanes
- Proposed Purpose and Need
- Alternatives Under Consideration
- Schedule
- Budget
- Organization



101 Corridor Profile

- 26 miles of Highway 101 in San Mateo County linking San Francisco and Santa Clara counties
- 208 through-lane miles
- 230,000 trips/day
- Primary Access Route to:
 - San Francisco International Airport
 - Major employers
 - Port of Redwood City
 - East Bay via Dumbarton and San Mateo Bridges

3



101 Corridor Deficiencies

- Congestion doubles travel time during the peak periods
- Demand is projected to grow 10-15% by 2020 resulting in:
 - · Increased travel time
 - Diversion of traffic onto local streets
 - · Reduce transit service reliability
 - Increased traffic congestion-related collisions (rear-end accidents)



101 Bottleneck/Queueing





Background

- May '15: Caltrans approved Project Study Report/Project Development Support (PSR/PDS) to extend existing High Occupancy Vehicle (HOV) lanes on 101 Corridor in San Mateo County 14.5 miles, Whipple Road to I-380.
- May '15: TA Board authorized reallocation of savings from the PID phase to advance the start of traffic and other technical studies for the subject project.
- Oct '15: TA Board authorized allocation of \$8.5
 million of Measure A funding for the Project Approval/
 Environmental Document (PA/ED) phase of the project.



Background (continued)

- Oct '15 May '16:
 Received stakeholder and project team input
 - Project alternatives expanded to include Express Lane (EL) to allow tolling of non-HOV vehicles through congestion pricing
 - Project limits extended seven miles south to a total length of 22.5 miles to better coordinate with Santa Clara County
- Oct '15: C/CAG requested the programming of state funding to supplement Measure A
- May '16: Approve Supplemental PSR/PDS to document these changes; execute cooperative agreement with Caltrans

7



General Purpose Lane vs. Managed Lane

GENERAL PURPOSE (GP) LANE CONTROL:

· Uncontrolled operation of the lane

MANAGED LANE (ML)

High Occupancy Vehicle (HOV) CONTROL:

- · Hours of operation
- Occupancy requirements
- Points of access
- Enforcement

Express Lane / High Occupancy Toll (HOT) / Toll CONTROL:

- · Hours of operation
- Occupancy requirements
- Points of access
- Enforcement
- Toll charged to non-HOV drivers
- O&M cost toll administration



Proposed Purpose and Need

Purpose:

Provide a continuous managed lane in each direction on 101 from the terminus of the Santa Clara County Express Lanes to I-380 to:

- · Provide more reliable travel time for the managed lanes
- · Minimize operational degradation of the general purpose lanes
- · Allow travel mode choice
- · Increase overall person throughput
- · Apply technology and/or design feature to help manage traffic

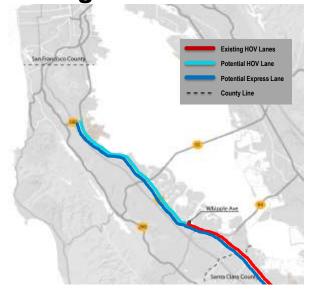
Need:

- 101 is heavily congested resulting in an overall degradation of operations throughout the corridor.
- All users, whether they are in single or multiple passenger vehicles traveling on 101, experience delays.

9



101 Managed Lanes





101 Managed Lanes Build Alternatives Under Consideration

Santa Clara County to I-380

Convert General Purpose	Add a Lane
1. HOV 2+	1.) HOV 2+
2. HOV 3+	2. HOV 3+
3. HOT 2+	3. HOT 2+
4.) HOT 3+	4.) HOT 3+



Preferred Alternative Selection Criteria

- Freeway Operational Improvements
 - · Increased Person Throughput
 - · Travel Time Reliability
 - · Congestion Relief
- Cost to Implement Alternatives
- Ease and Speed of Alternative Implementation
- · Compatibility with Adjoining Segments



Anticipated Environmental Documents

- CEQA: Initial Study (IS)
- NEPA: Environmental Assessment (EA)
- Technical Studies
 - Land use
 - Community Impacts
 - Visual/Aesthetics
 - Cultural Resources
 - Hydrology and Floodplains
 - Geology, Soil, & Seismic
 - Water Quality & Storm Water Runoff
- Paleontology
- · Hazardous Waste/Materials
- Air Quality
- Noise and Vibration
- Energy & Climate Change
- Biological Environment
- · Cumulative Impact
- Context-Sensitive Solutions

13



101 ML Environmental Schedule

- · 28 months to complete
- Key Schedule Milestones

Event	Date
Start	Jun-16
Finalize technical studies	Jan-18
Draft environmental document and public circulation	Apr-18
Final environmental document	Aug-18
Project Report Approval	Sep-18



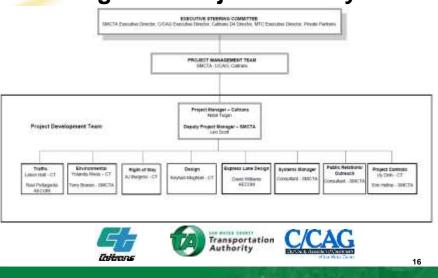
Environmental Phase Cost Estimate

Task	Budget
Project Management	\$2,060,000
Traffic	\$1,430,000
Environmental	\$2,850,000
Right of Way and Mapping	\$230,000
Preliminary Design	\$4,330,000
Systems Management Interface	\$350,000
Public Outreach	\$250,000
Total	\$11,500,000

15

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Integrated Project Delivery Team





Organization

Integrated Project Delivery Team

- MEMBERS:
- Caltrans
- · C/CAG
- SMCTA

ROLE:

Perform necessary preliminary design, environmental & technical studies to environmentally clear the project consistent with purpose and need

Project Management Team

- · MEMBERS:
- CaltransC/CAG
- SMCTA

ROLE:

Coordinate technical, policy and funding aspects. Serve as an intermediary between Integrated Project Delivery Team and Executive Steering Committee

Executive Steering Committee

- MEMBERS:
- Caltrans
- MTC
- C/CAG • SMCTA
- Private Sector

ROLE:

Through collaboration and consensus-based decisions, support and advise the Project Management Team and other appropriate agencies / stakeholders.

