

State Route 68 Adaptive Traffic Signal Control (ATSC) Pilot Project Update

3/26/2025

Caltrans District 5 Traffic Division

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Pilot Project Scope

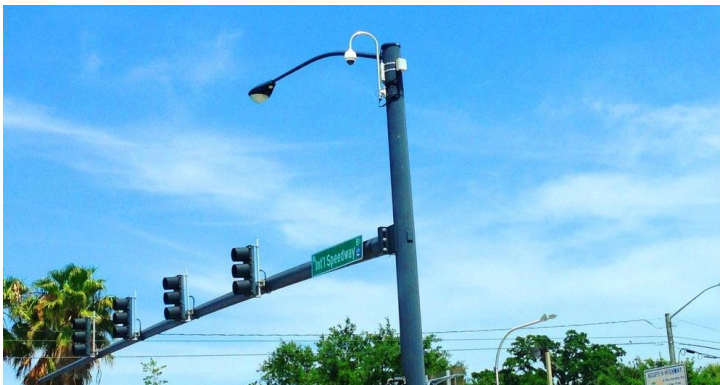
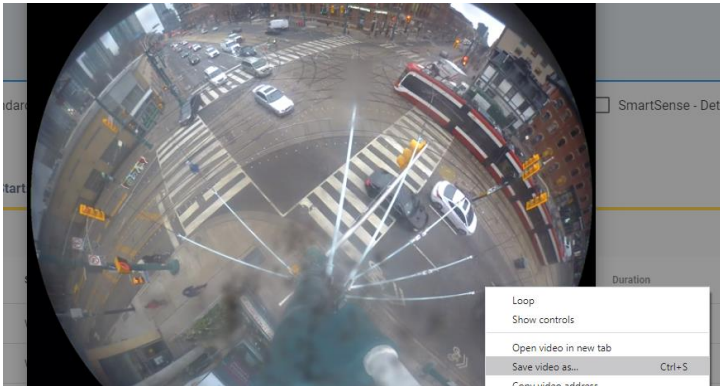
- Improve east-west corridor progression by providing adaptive traffic signal control at the 9 signalized intersections along SR68 between Monterey and Salinas.
- Approved by Caltrans HQ Traffic Operations.
- Pilot project will be supported for a term of 5 years.

Funding

- \$500K has been authorized by the TAMC Executive Board for Caltrans to purchase ATSC materials, warranty, and service agreement by vendor.
- Additional funds are required for the support costs associated to the design, installation, operations, maintenance, and partnering for this project.
- If additional funds are not available, it is possible to proceed with a reduced number of intersections, but the project will have reduced insights on the efficacy of this solution along the corridor.

Funding –
cont.

	Number of Intersections	
	4	9
Product	\$217,000.00	\$465,000.00
Support	\$242,000.00	\$328,000.00
Total	\$459,000.00	\$793,000.00



Procurement

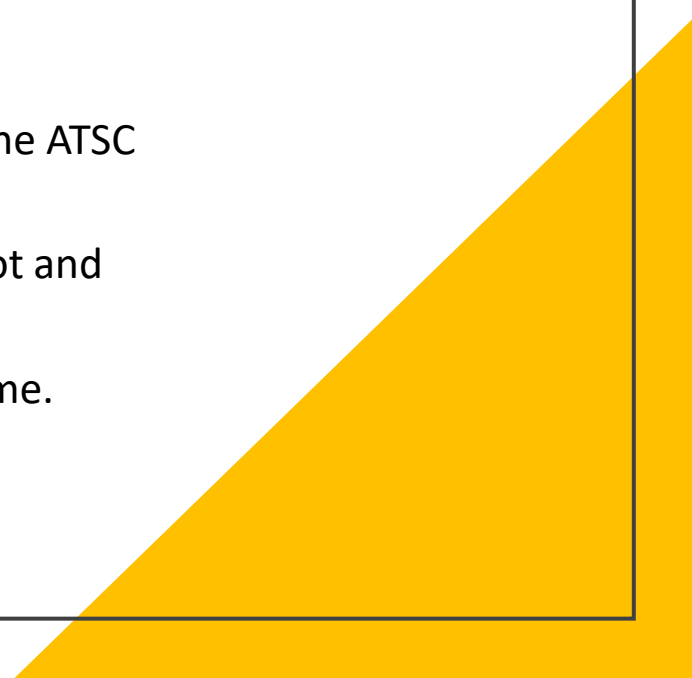
- Materials will be procured by Caltrans upon receipt of TAMC cooperative agreement addendum approval and funds.
- Caltrans will be the owner and operator of the ATSC system, however, will be cooperating with TAMC staff.



Design and Build

- Caltrans is designing the pilot project and intends on operating the system for a period of 5 years.
- Design and installation assumes system components will be placed on and in existing infrastructure with minimal modifications.

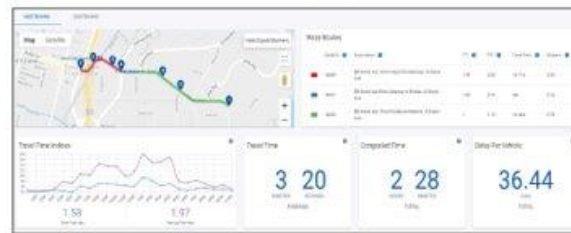
Operations and Maintenance

- Though Caltrans has typical operations and maintenance along this corridor, there will be ATSC specific operations and maintenance work that is outside Caltrans maintenance norms.
 - Training will be provided by the vendor to Caltrans staff that will be operating the ATSC system.
 - Caltrans agrees to deliver quarterly reports to TAMC for the first year of the pilot and twice a year for the following four years.
 - Caltrans has full discretion to activate and deactivate the ATSC system at any time.
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Maintenance Insights



Travel Time & Corridor



Signal Performance



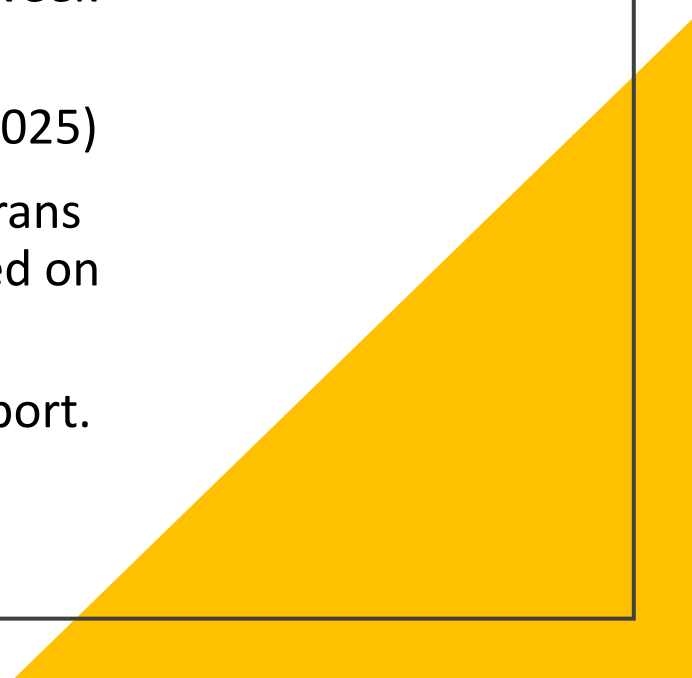
Executive Reports



Pilot Test Metrics

- Traffic Volumes
- Total Delay
- Delay per Vehicle
- Arrivals on Green
- Split Failures
- Platoon Ratio
- Ped Actuations
- Ped Delay
- Average Travel Times

Pilot Test Plan

1. Install, configure and make operational. A range of timing parameters will be determined and selected in this stage.
 2. Vendor supported optimization period. (1 week optimization, 1 week reversion to static timings)
 3. Official start of pilot period (pending TAMC/DES approval, Sept 2025)
 4. Collect data, observe metrics and provide periodic reports. (Caltrans will consider timing adjustments on an as needed basis and based on observed metrics)
 5. At conclusion of the pilot period, provide a final performance report.
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TAMC Staff Recommendation

SUPPORT the phased implementation of the State Route 68 Adaptive Signal Pilot Project; and

AUTHORIZE the Executive Director to enter into a funding agreement with Caltrans to use up to \$500,000 to implement the first phase of the pilot project, contingent on counsel review.