

# STATE ROUTE 68 CORRIDOR OPERATIONS EVALUATION

May 27, 2026



Efficient  
Corridor  
Mobility



TAMC Board Meeting

# CORRIDOR CONTEXT

## Why SR68 Matters



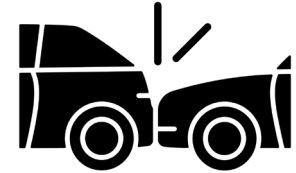
Recurring Congestion



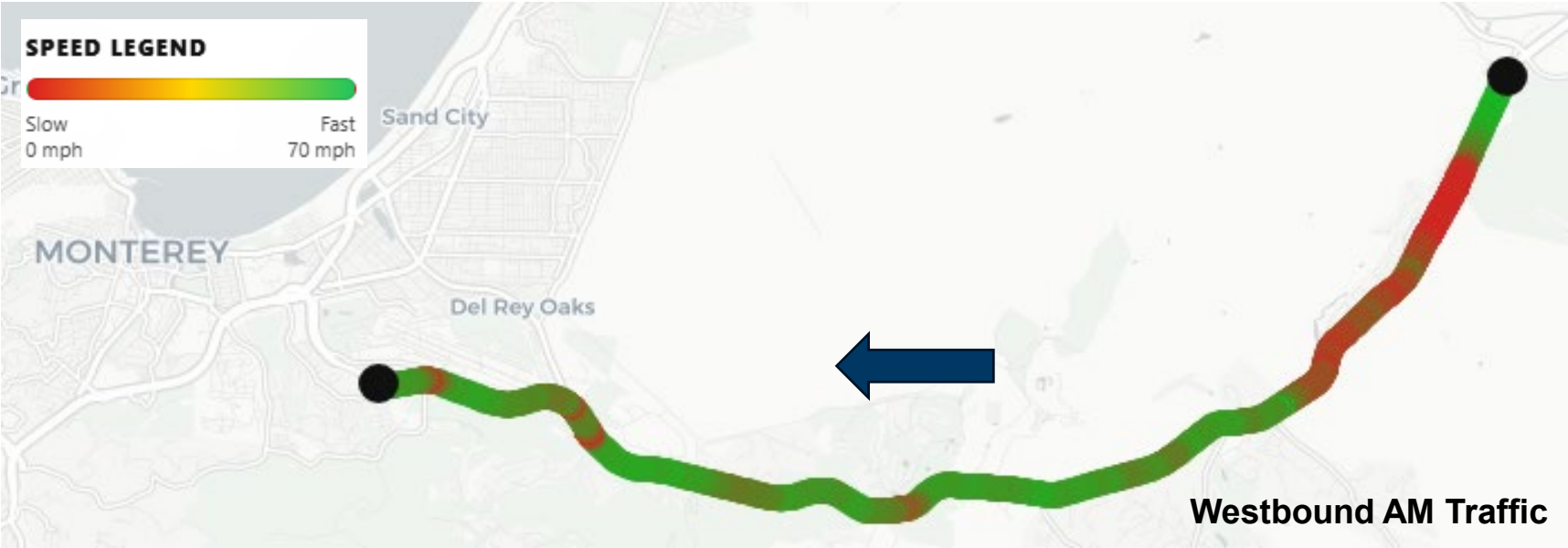
2-mile Queues in AM



Unreliable travel times



Rear-end collisions during peak commutes



# Why Now?

- TAMC Board requested a report on preliminary findings
- Adaptive operations implemented May 5
- Monitoring typically done in Fall and Spring
  - “Normal” traffic conditions
  - school is in session
  - Few holidays or seasonal variation
- Data had to be collected prior to school dismissal for summer



# How Traffic Signals Work

- Rigid sequence
- Like working independently
- Like to be spaced far apart
- Share Time



# Modes of Operation

- **FREE**
  - Distributes time equitably
  - Does not anticipate traffic arrivals
  - No schedule= constant adjustments to traffic
- **COORDINATED**
  - Takes time from side street to improve mainline traffic flow
  - Presumes mainline traffic arrivals and prioritizes one travel direction
  - Inflexible schedule= poor operation when traffic pattern changes
- **ADAPTIVE**
  - Adjusts time to balance competing objectives
  - Approaches COORDINATION in peak periods and FREE in off-peak
  - Adjusts schedule to seasonal changes, special events and incidents



# Miovision System on State Route 68

- Miovision set guardrails with Caltrans input and signal timing plans
- AI collects and evaluates real-time traffic data
- Adaptive system adjusts to traffic patterns according to guardrails
- Caltrans monitors operations and adjust boundaries as needed
- **Not a “set it and forget it” system**



# ADAPTIVE SIGNAL SYSTEM UPDATE

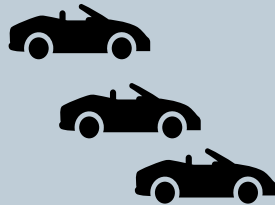
## *Adaptive/ AI Signal Operations Status*

- Miovision AI analytics connected in April, 2026
- Adaptive system activated May 4, 2026
- Miovision working closely with Caltrans for first few months
- Data collection is ongoing and shows good results

## Project Performance Indicators



**Travel Time**



**Queues**



**Delay**



**Speed**



**Safety**

# MIOVISION Data Validation

## Before and After Travel Time Runs: Field Data vs. Miovision AI

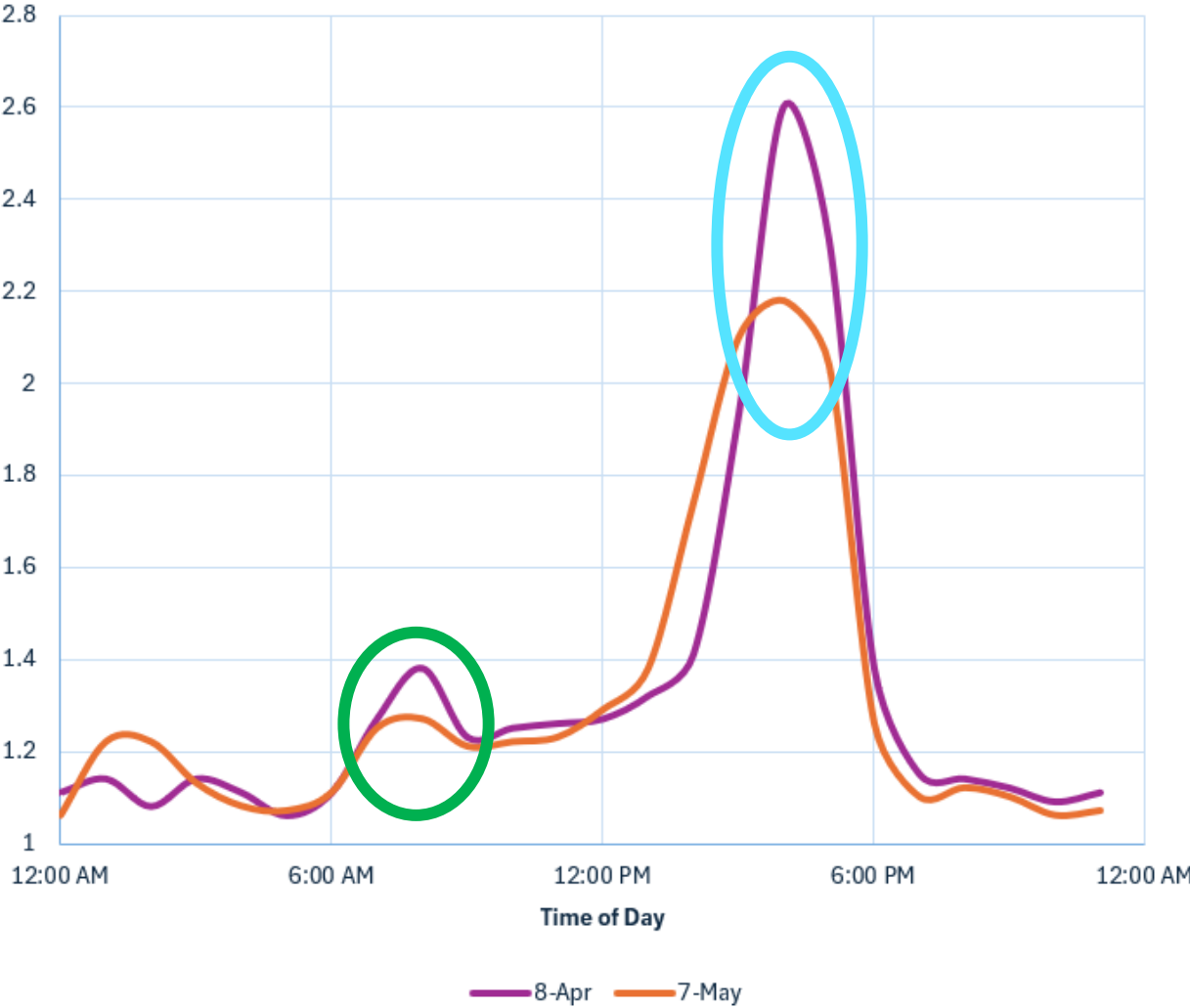
Scenario		Reduction in Travel Time (minutes: seconds)	
		AM PEAK	PM PEAK
Westbound	In-Field	4:00	2:06
	Miovision	4:20	3:00
Eastbound	In-Field	0:12	0:48
	Miovision	0:42	0:20

# Travel Time Index (TTI): Comparing Travel Times

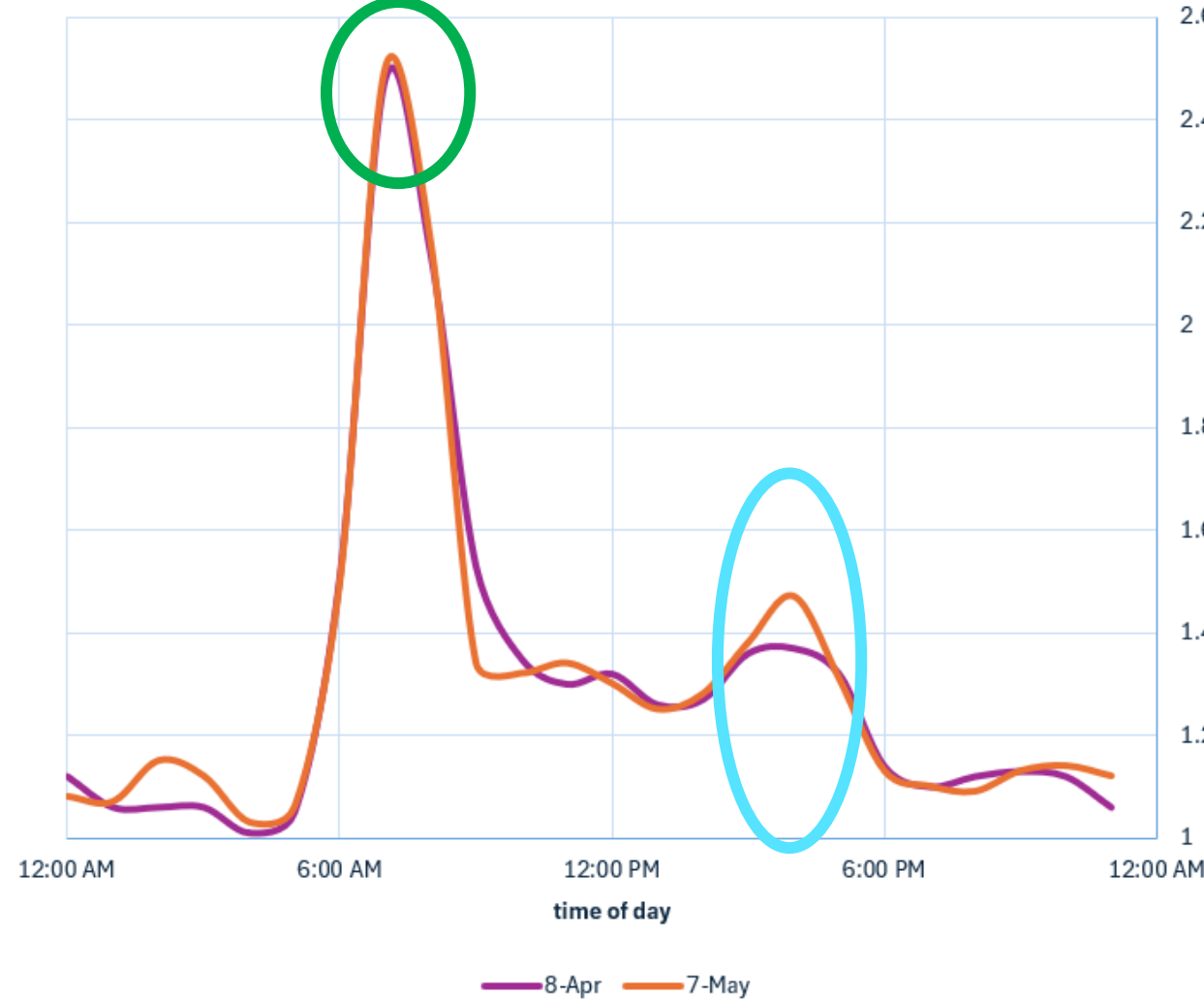
- $TTI = (\text{Travel Time}) / (\text{Free Flow Conditions})$ 
  - $TTI = 1$ : vehicle traveled at speed limit
  - $TTI = 2$ : vehicle traveled at  $\frac{1}{2}$  the speed limit
- This allows a fair comparison of travel times on different days and different directions

# Adaptive: Before and After Preliminary Results

SR 68 EASTBOUND: HOURLY TTI

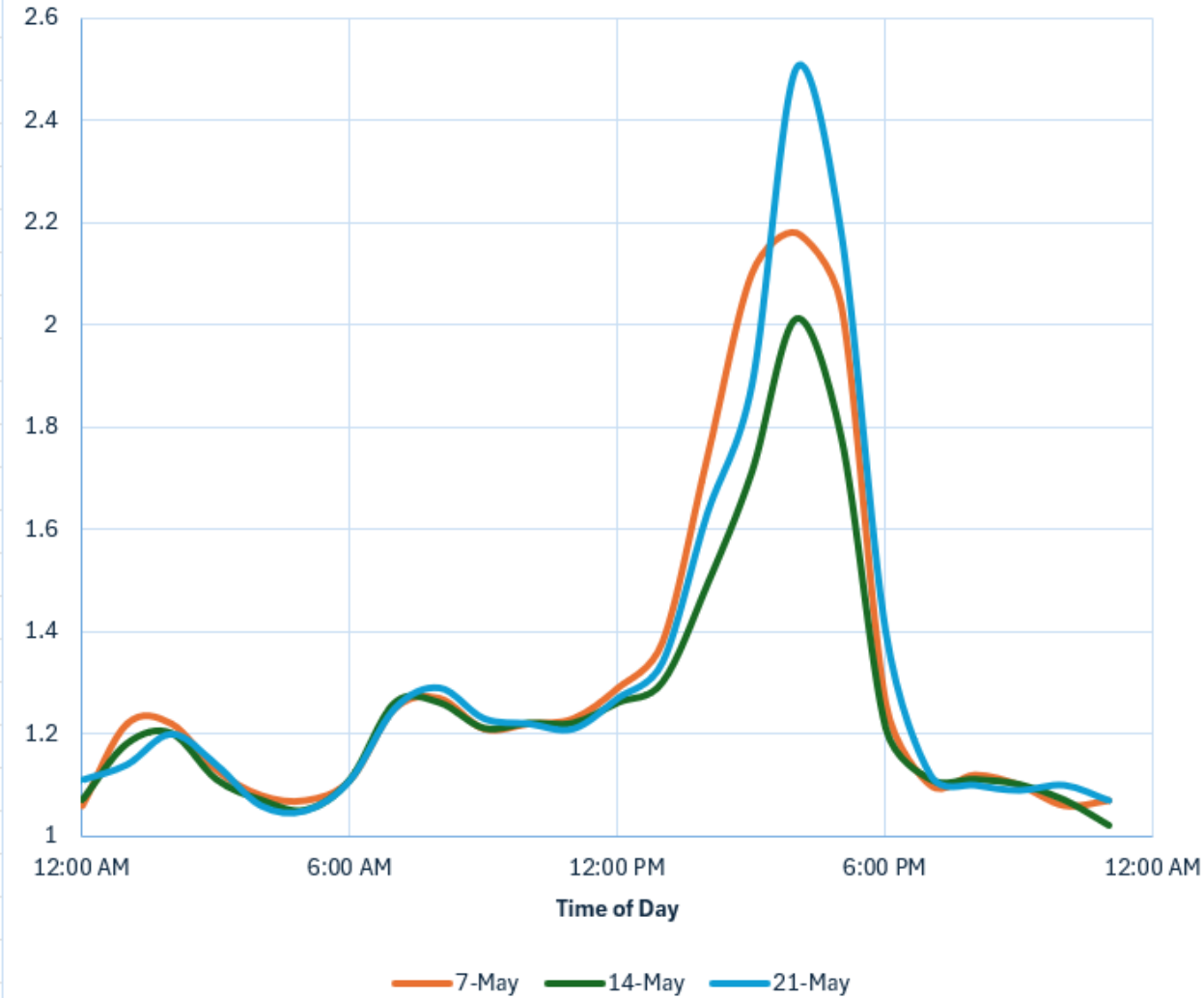


SR 68 WESTBOUND: HOURLY TTI

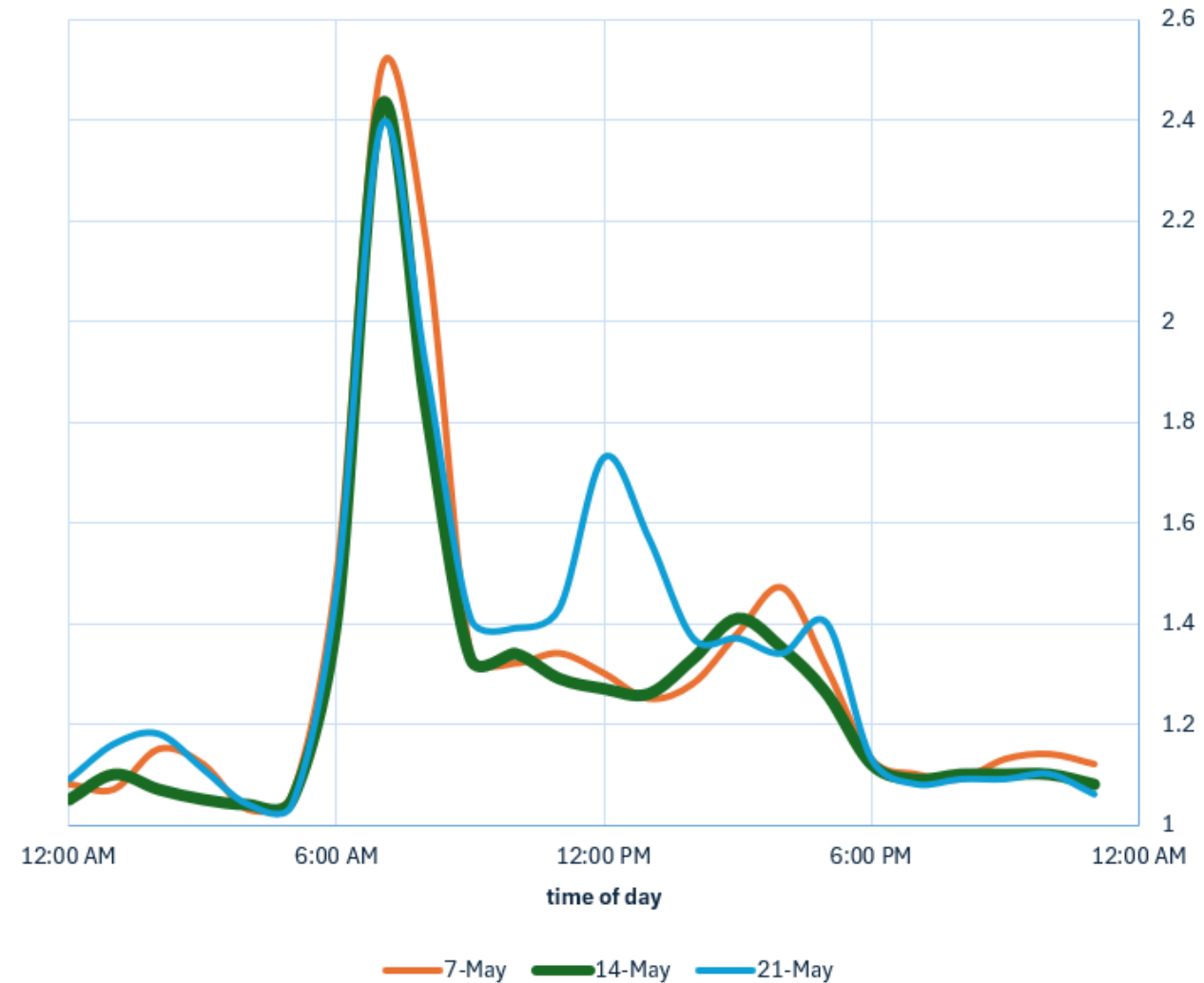


# Adaptive Adjustments

## SR 68 EASTBOUND: HOURLY TTI



## SR 68 WESTBOUND: HOURLY TTI



# SIDE STREET DELAY

Data from April 14<sup>th</sup>, 2026 and May 12<sup>th</sup>, 2026

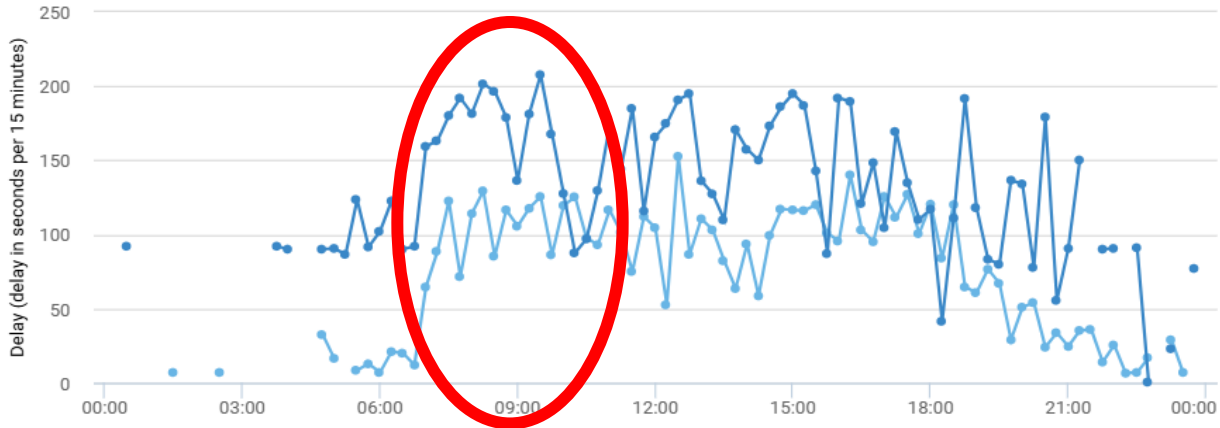


Time of day

● 24 Hours | Tue, Apr 14th, 2026    ● 24 Hours | Tue, May 12th, 2026

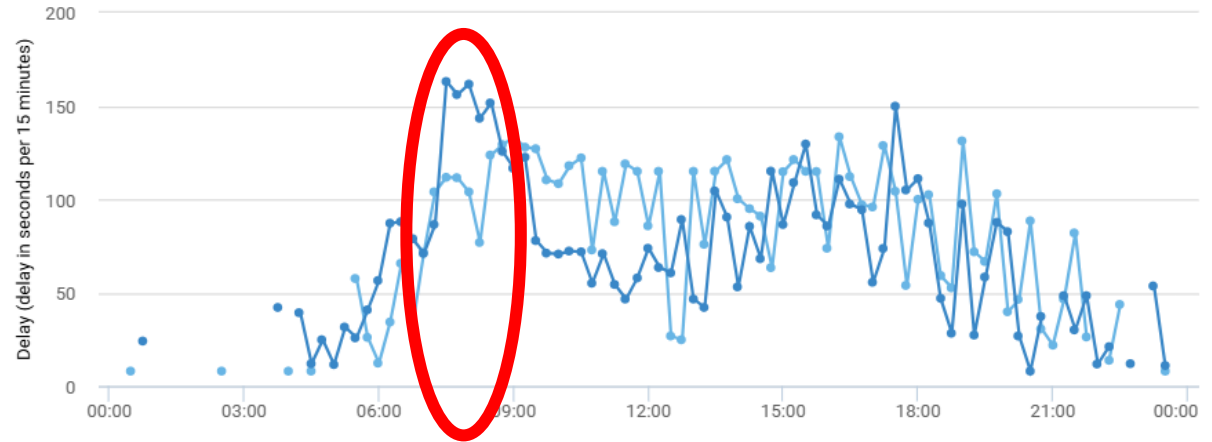
Monterey Salinas Highway and Corral de Tierra Road, Corral de Tierra Road (NB) - Thru

Simple Delay



Monterey Salinas Highway and San Benancio Road, San Benancio Road (NB) - Thru

Simple Delay



Monterey Salinas Highway and Laureles Grade Road, Laureles Grade Road (NB) - LT

Simple Delay



# KEY TAKEAWAYS FROM EARLY RESULTS

- Adaptive operations improve mainline travel times & increase side street delay
- Miovision AI data is valid
- Can't create time- so safety and queue instability remain with any signal operation
- Adaptive strength is adjusting to changing travel patterns
- It is not a “set it and forget it” system
- Miovision will conduct a thorough before-and-after study
- Preliminary results support continuing pilot project

# NEXT STEPS



1

Continue  
the pilot

2

Miovision  
Before-and-  
After Study

3

Adaptive is  
new  
baseline

4

Roundabout  
microsimulation  
modelling

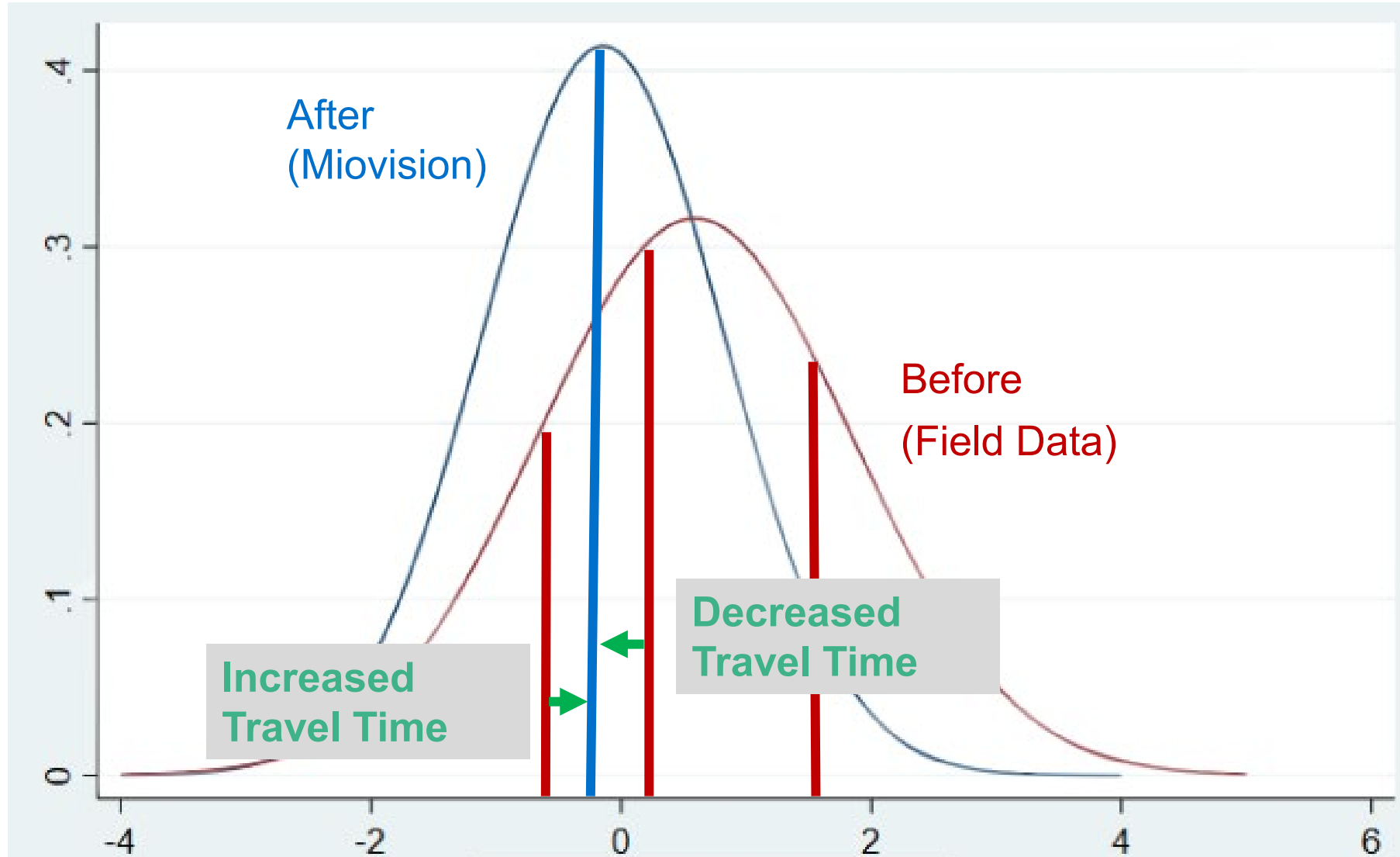
5

Evaluate  
roundabouts



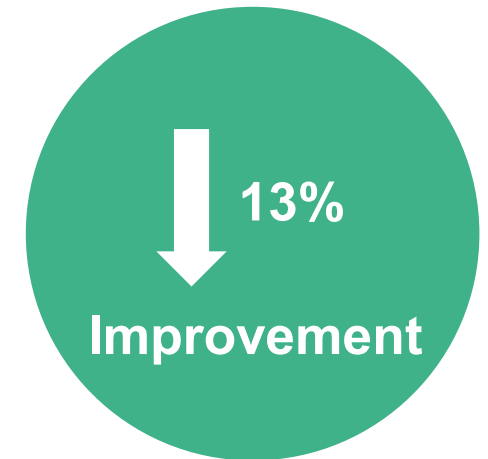
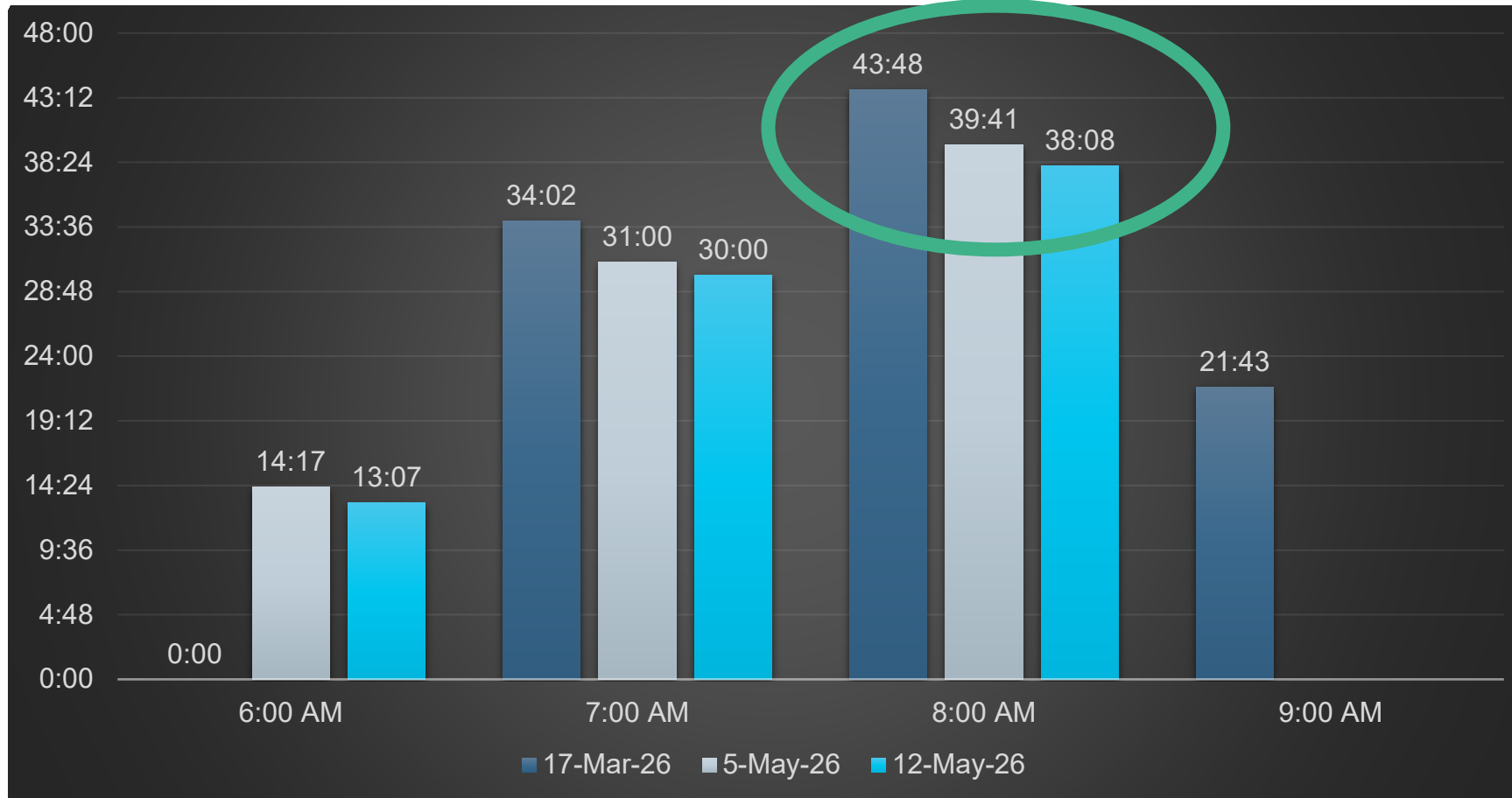
**\* Thank you**

# Comparing Results



# AM PEAK HOUR TRAVEL TIME: FIELD DATA

*Westbound Before vs After*

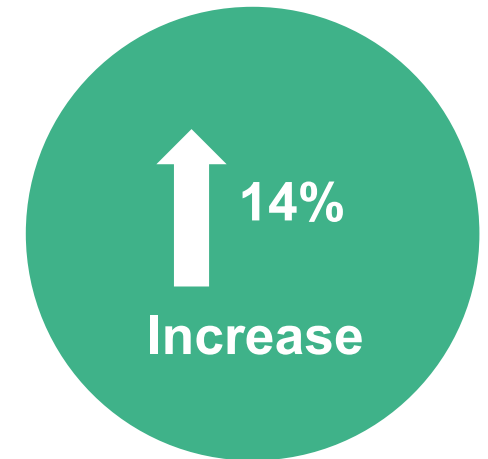
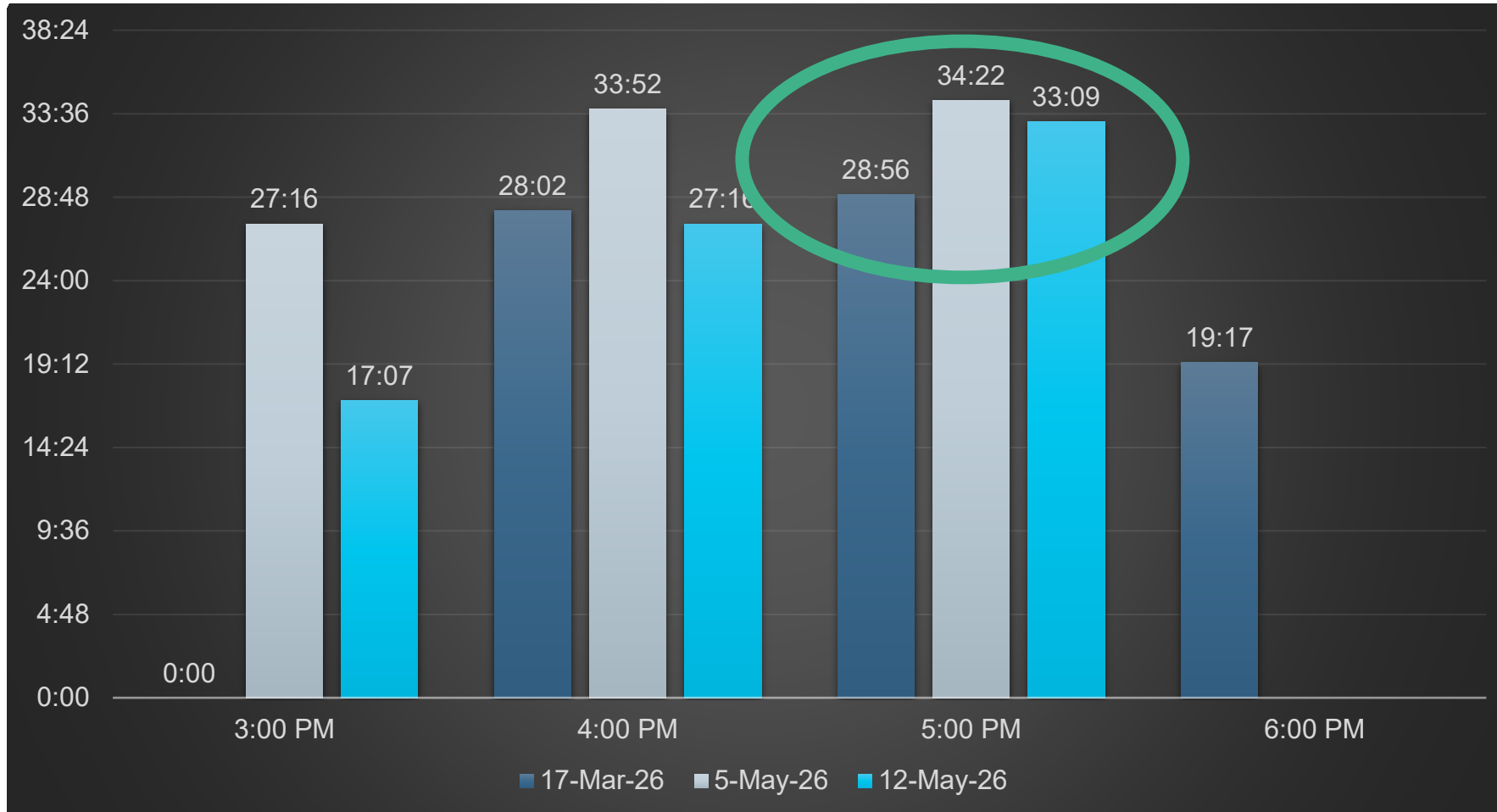


Before (March 17, 2026: 43:48 min

After (May 12, 2026: 38:08 min

# PEAK HOUR TRAVEL TIME COMPARISON

*Field Travel Time Runs: Before vs After (PM Peak) – Josselyn to Reservation/ River*



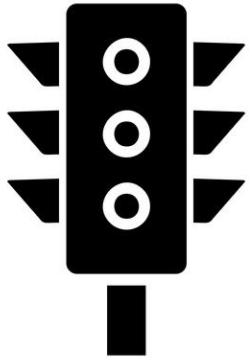
Before (March 17, 2026: 28:56 min

After (May 12, 2026: 33:09 min

# ROUNDAABOUT BCA PREVIEW

## Alternatives Being Compared

### AI/ Adaptive Signal



- Flexible
- Lower Initial Cost
- Easier Adjustments
- Signal Coordination

### Hybrid Roundabouts

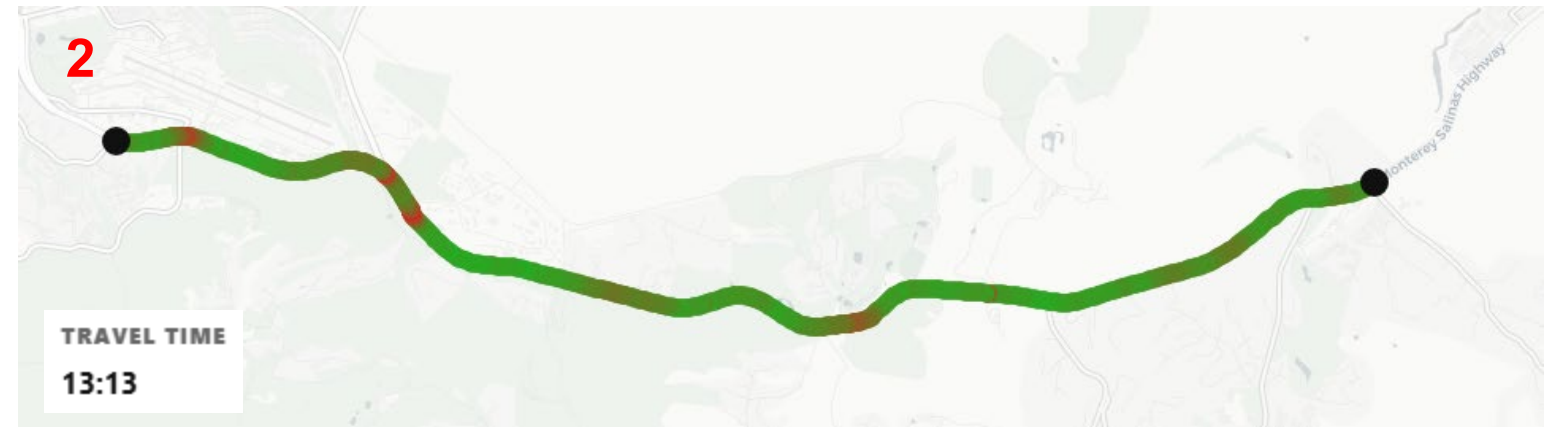
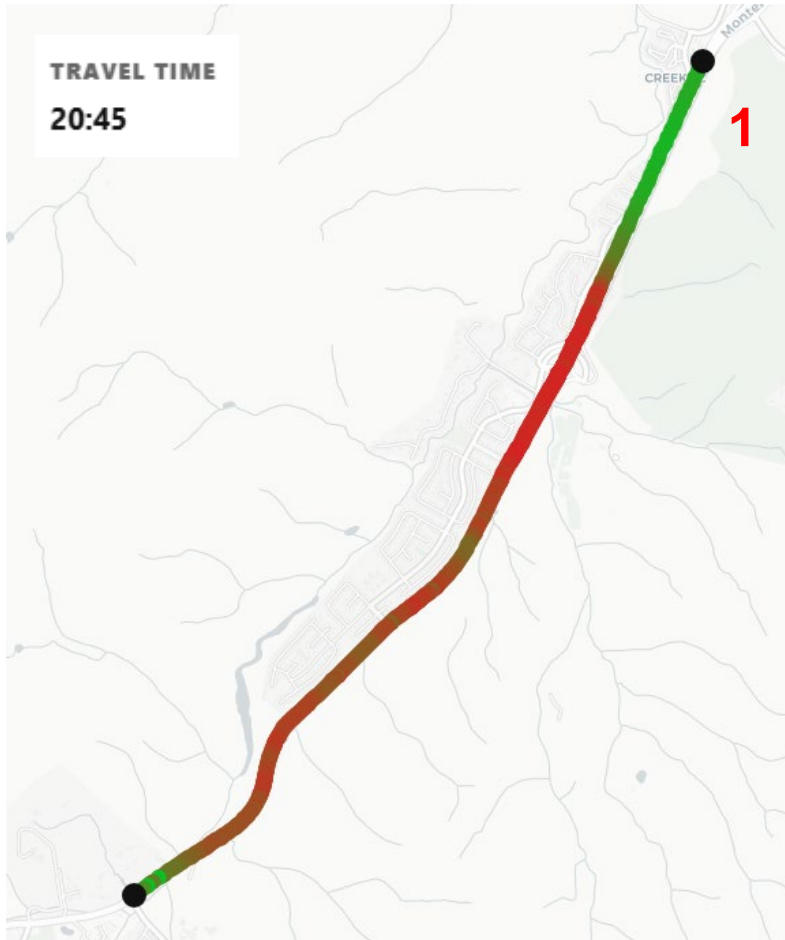


- Permanent Geometry
- Higher Safety Potential
- Lower long-term maintenance
- Continuous flow

Hybrid roundabouts proposed at three intersections (San Benancio, Corral De Tierra, and Laureles Grade)

# COMPASS IoT VALIDATION

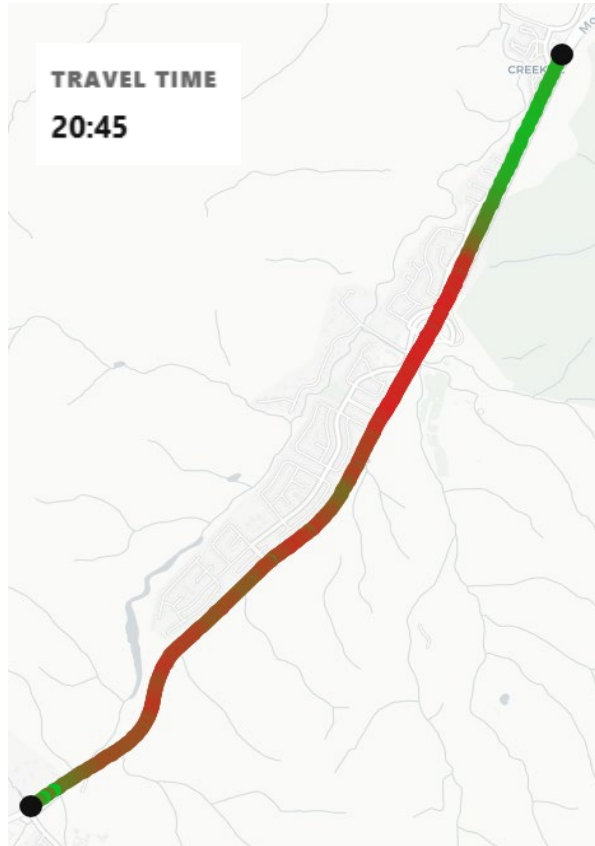
Field Travel Times (March 17, 2026)



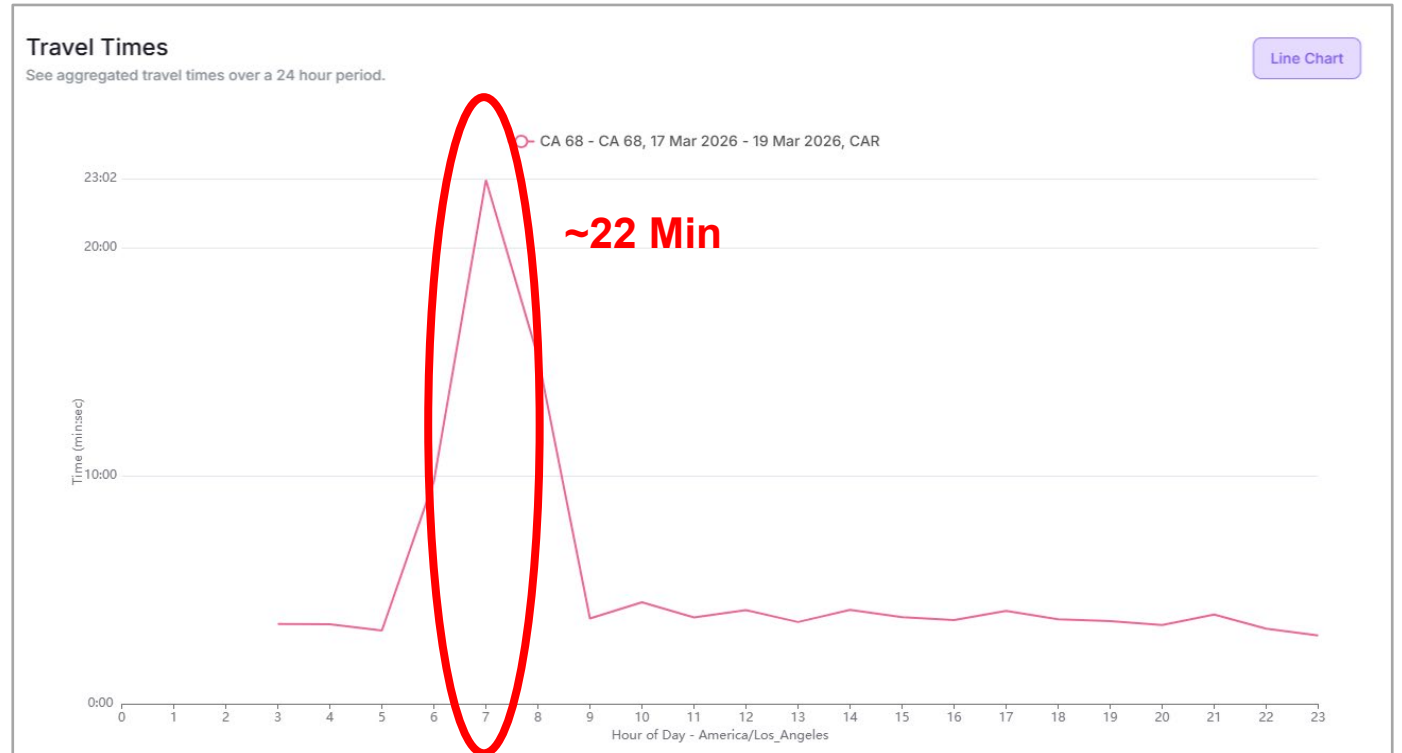
# COMPASS IoT VALIDATION

Compass Travel Times (March 17-19, 2026)

1



Actual Field Data

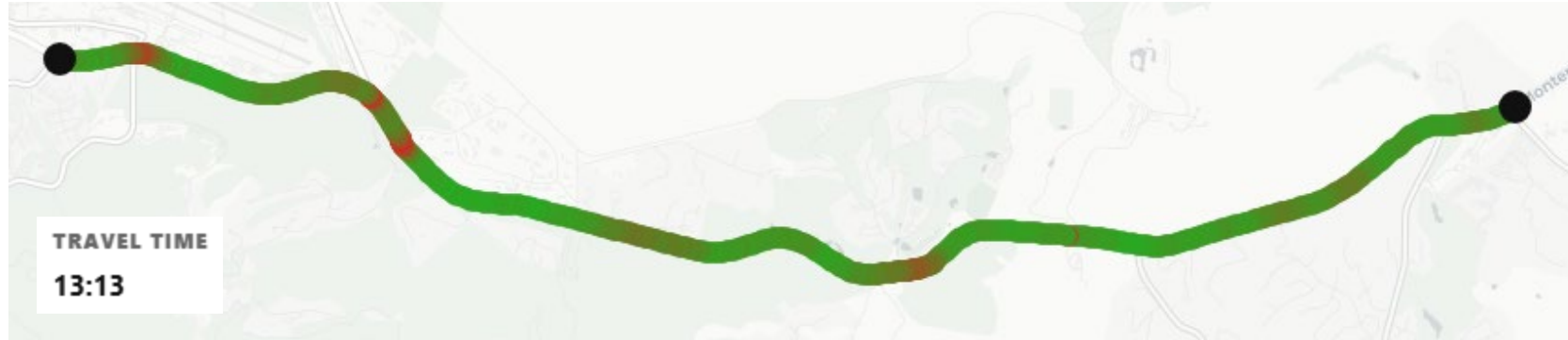


Compass Data

# COMPASS IoT VALIDATION

Compass Travel Times (March 17-19, 2026)

2



Actual Field Data

Travel Times

See aggregated travel times over a 24 hour period.

Line Chart



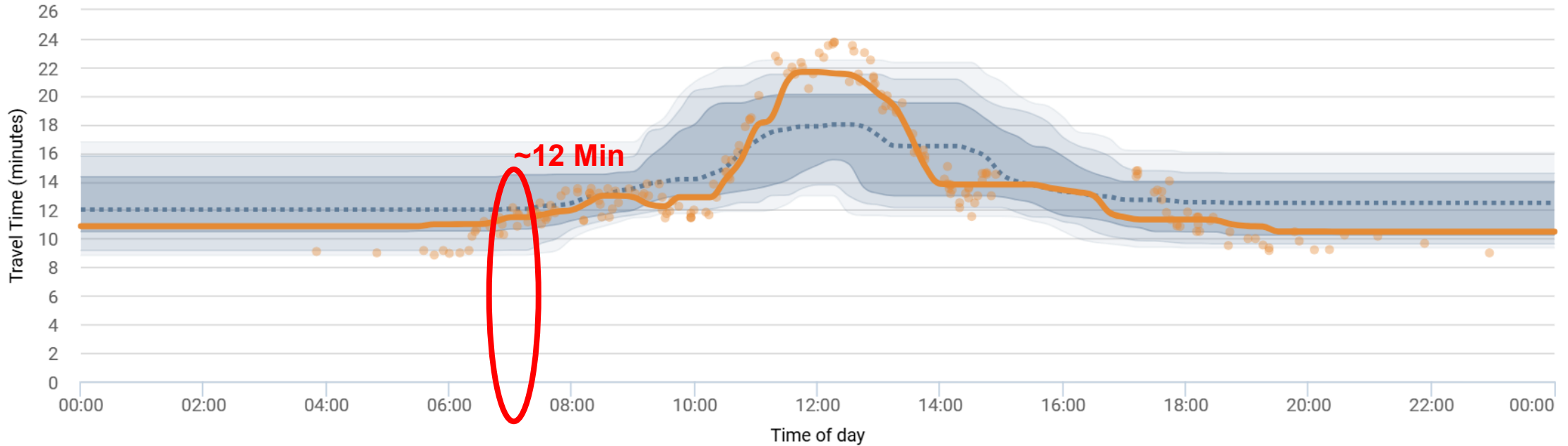
Compass Data

# COMPASS IoT VALIDATION

Miovision Travel Times (March 17-19, 2026)

2

Travel Time from Monterey Salinas Highway and San Benancio Road to Monterey Salinas Highway and Josselyn Canyon Rd



— 24hr Median Travel Time Mar 19th 2026    • 24hr Match Instances Mar 17th 2026 - Mar 19th 2026    Historical Trend 95% Mar 17th 2026 - Mar 19th 2026  
Historical Trend 90% Mar 17th 2026 - Mar 19th 2026    Historical Trend 80% Mar 17th 2026 - Mar 19th 2026    - - - Historical Trend Median Mar 17th 2026 - Mar 19th 2026