Ramp Metering in the Bay Area: Status Report

Metropolitan Transportation Commission

September 2009

METROPOLITAN TRANSPORTATION COMMISSION

Ramp Metering Status

- **First Bay Area meters were implemented in 1971 in Santa Clara County.**
- **Bay Area currently has more than 270 metered ramps in Ala, SCl and SM Counties (24% of system).**
- **4th highest total of metropolitan regions in the nation, behind only:**
  - LA (~1,300)
  - Minneapolis/St. Paul (~430)
  - San Diego (~290)

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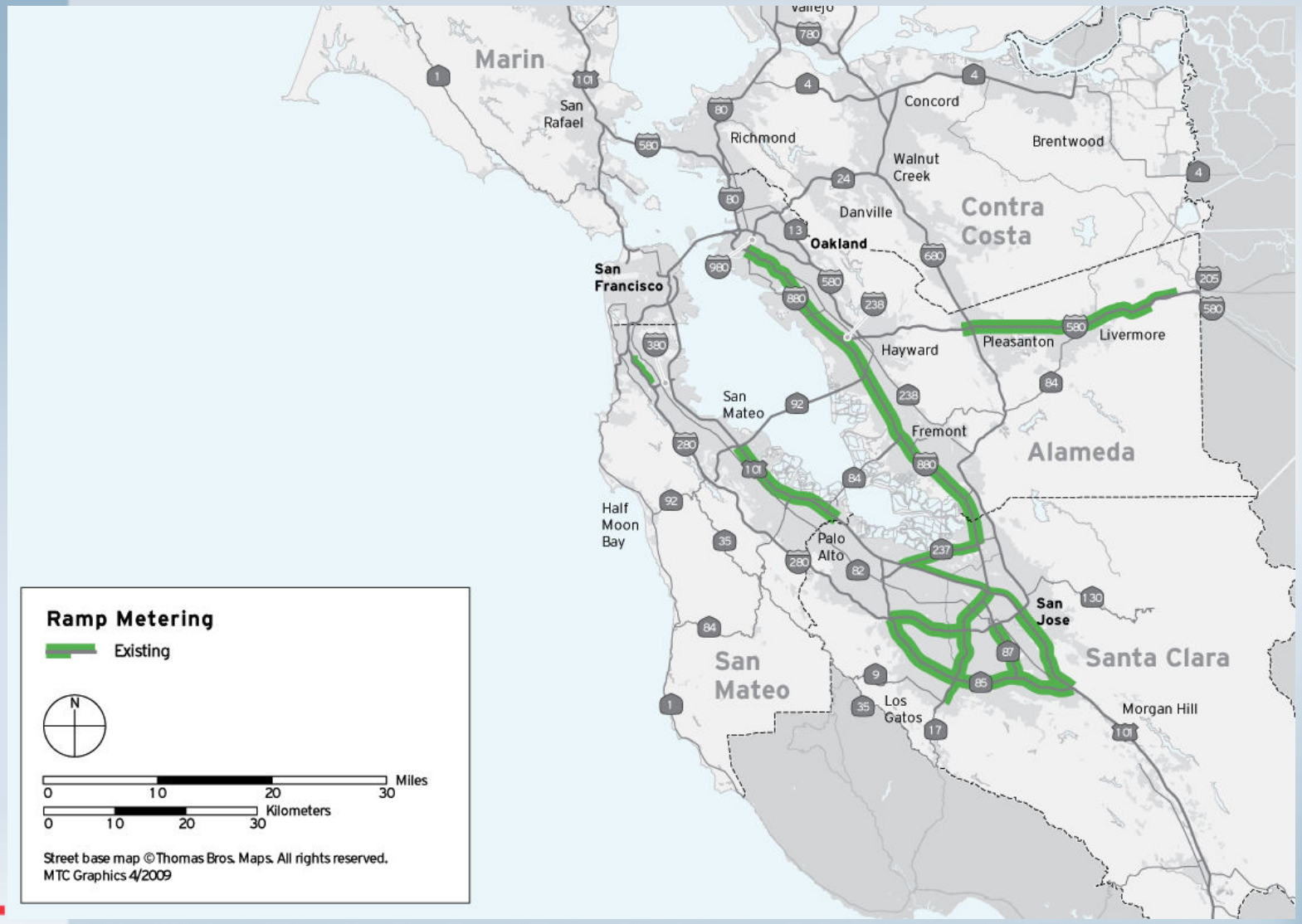

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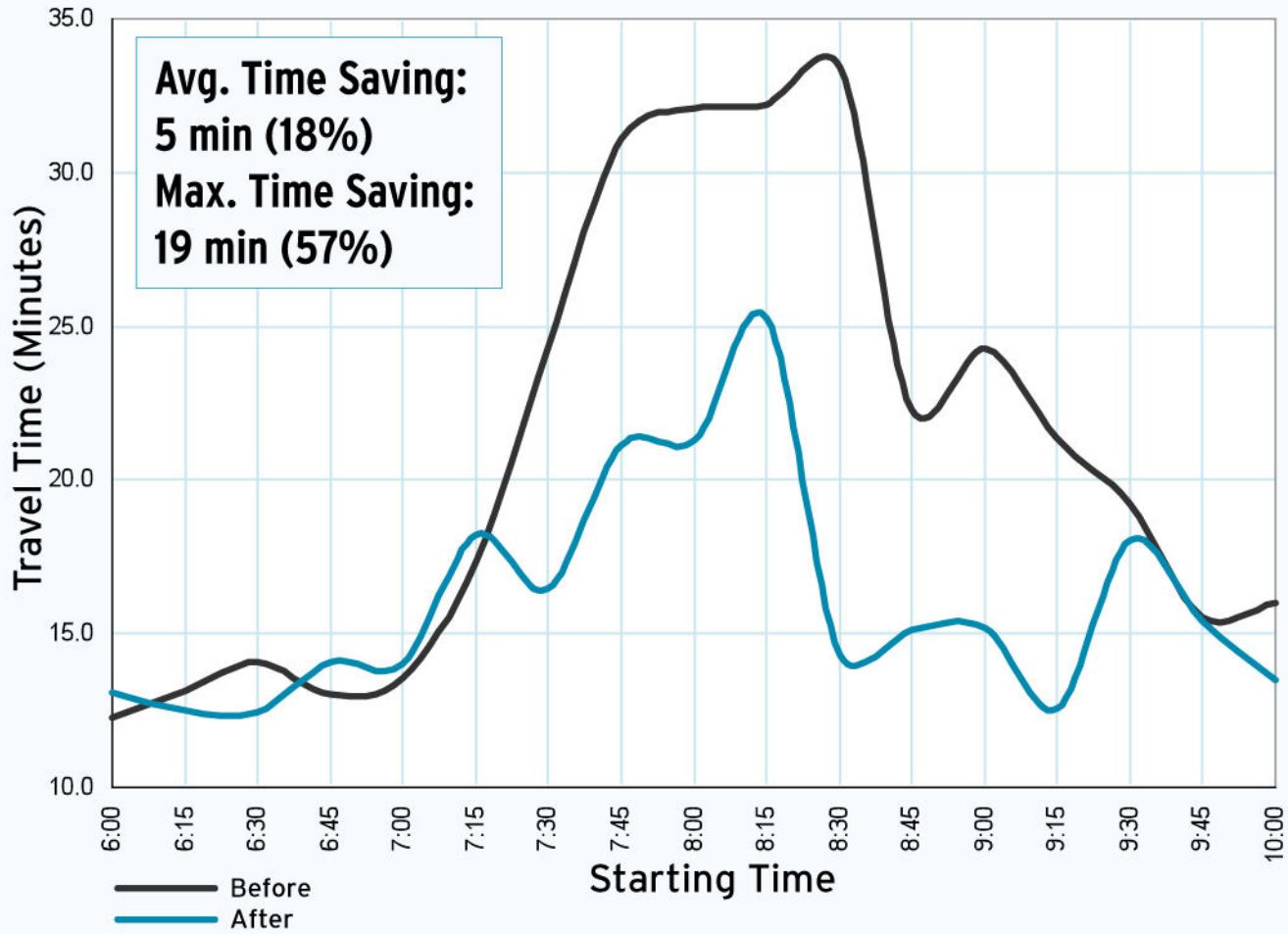
Existing Ramp Metering in the Bay Area

SB SM 101 from Hillsdale Blvd. to University Ave. (AM Peak)



Data Source: "Before" and "After" travel data collected in January 2009 and February 2009 respectively by Caltrans Ramp Metering Group.

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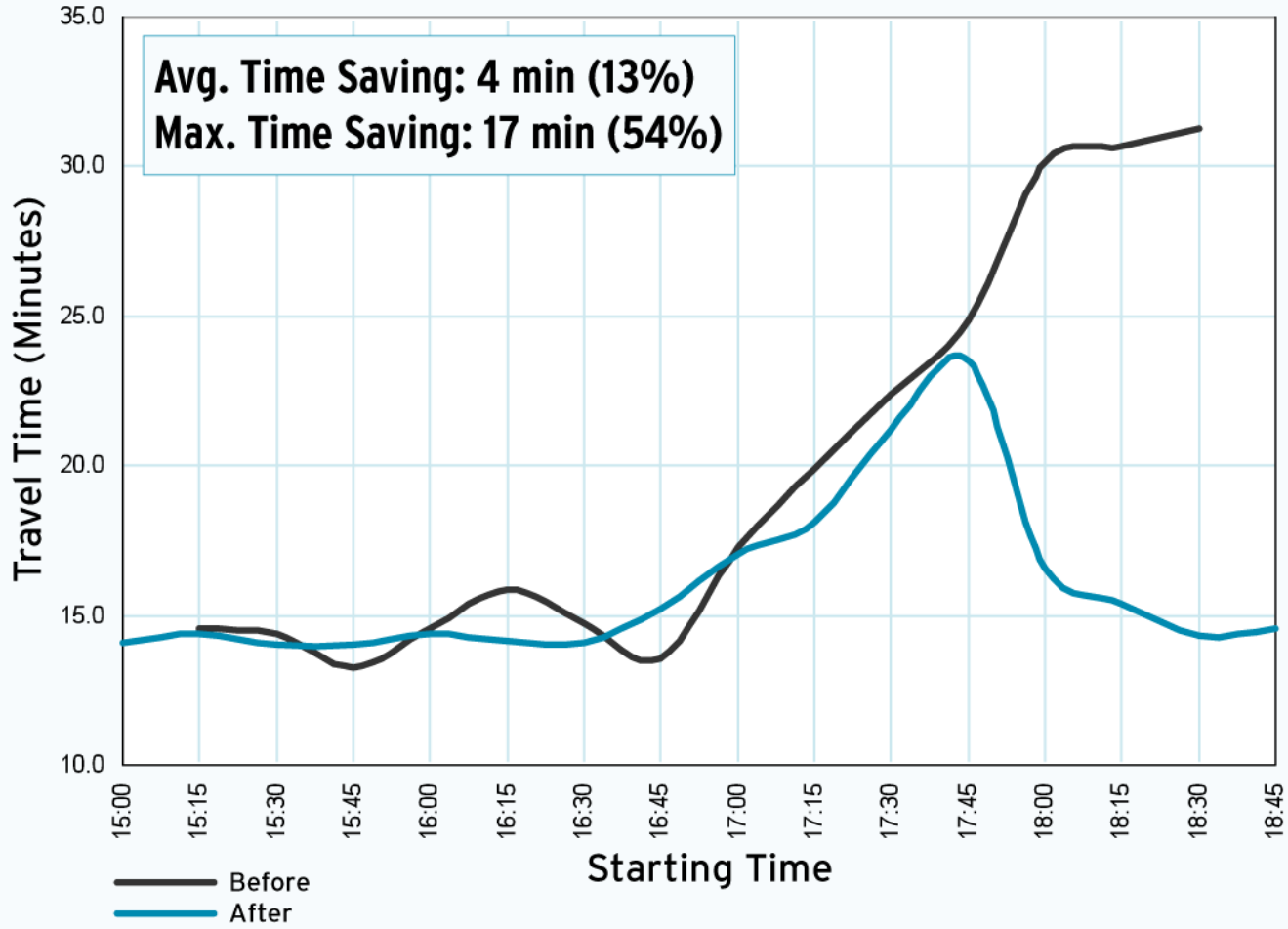
SB SM 101 from Hillsdale Blvd. to University Ave. (PM Peak)



Data Source: "Before" and "After" travel time data collected in January 2009 and February 2009 respectively by Caltrans Ramp Metering Group.

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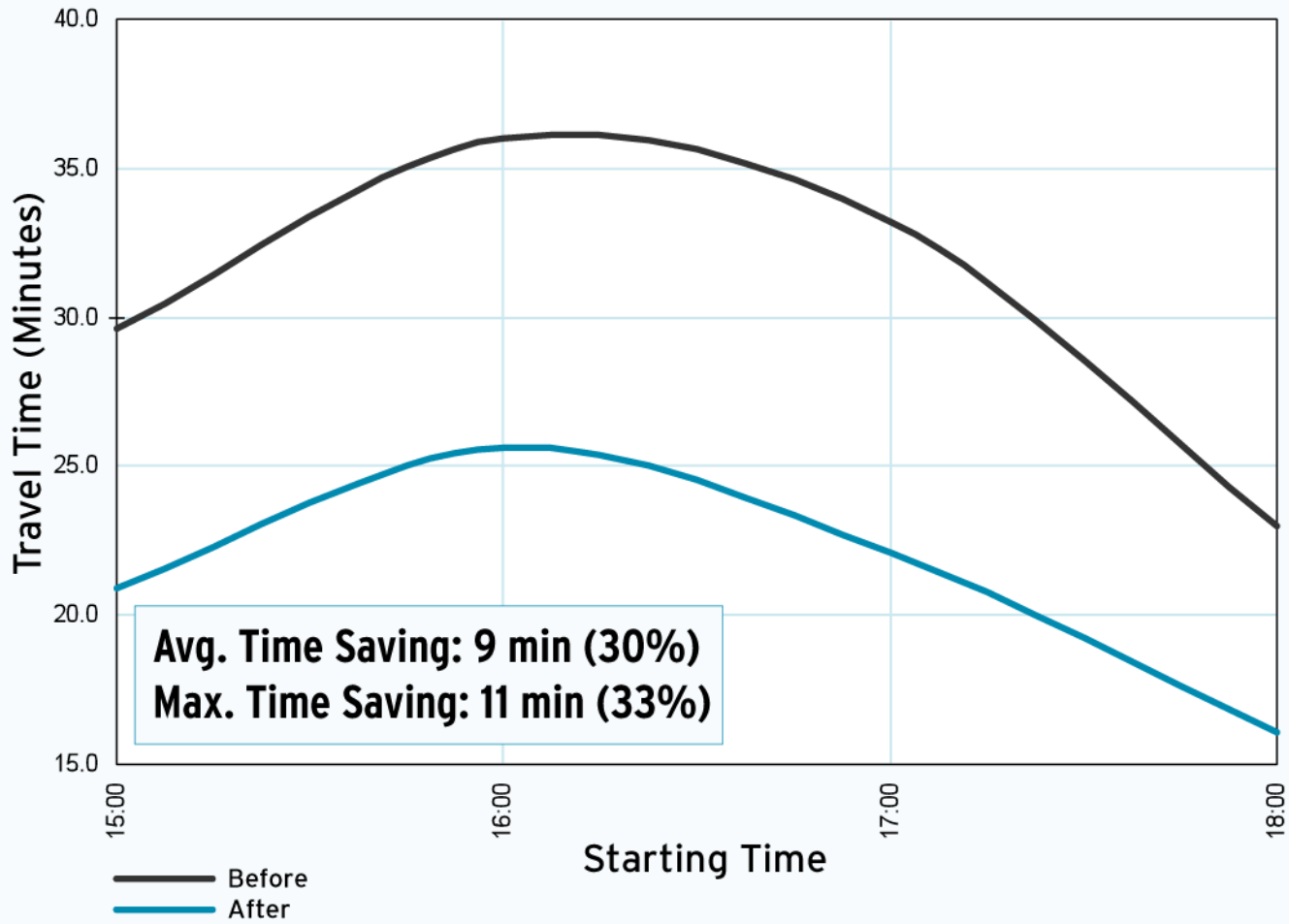
EB ALA 580 from Foothill Rd. to Greenville Rd. (PM Peak)



Data source: I-580 Ramp Metering "Before" and "After" Studies Phase II Final Report by Kimley-Horn and Associates, Inc. dated August 14, 2008

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Ala 580 Metering: Effect on Accidents

	TOTAL ACCIDENT	FATAL	INJURY	PDO	% CHANGE IN TOTAL ACCIDENTS
Phase I: Hopyard to Santa Rita					
BEFORE (June 2002 to May 2003)	**248**	**0**	**59**	**189**	
AFTER (June 2003 to May 2004)	**205**	**1**	**58**	**146**	**-21%**
Phase II: Foothill to Greenville					
BEFORE (1/1/2007 to 10/30/2007)	**197**	**0**	**58**	**138**	
AFTER (1/1/2008 to 10/30/2008)	**157**	**0**	**37**	**120**	**-25%**

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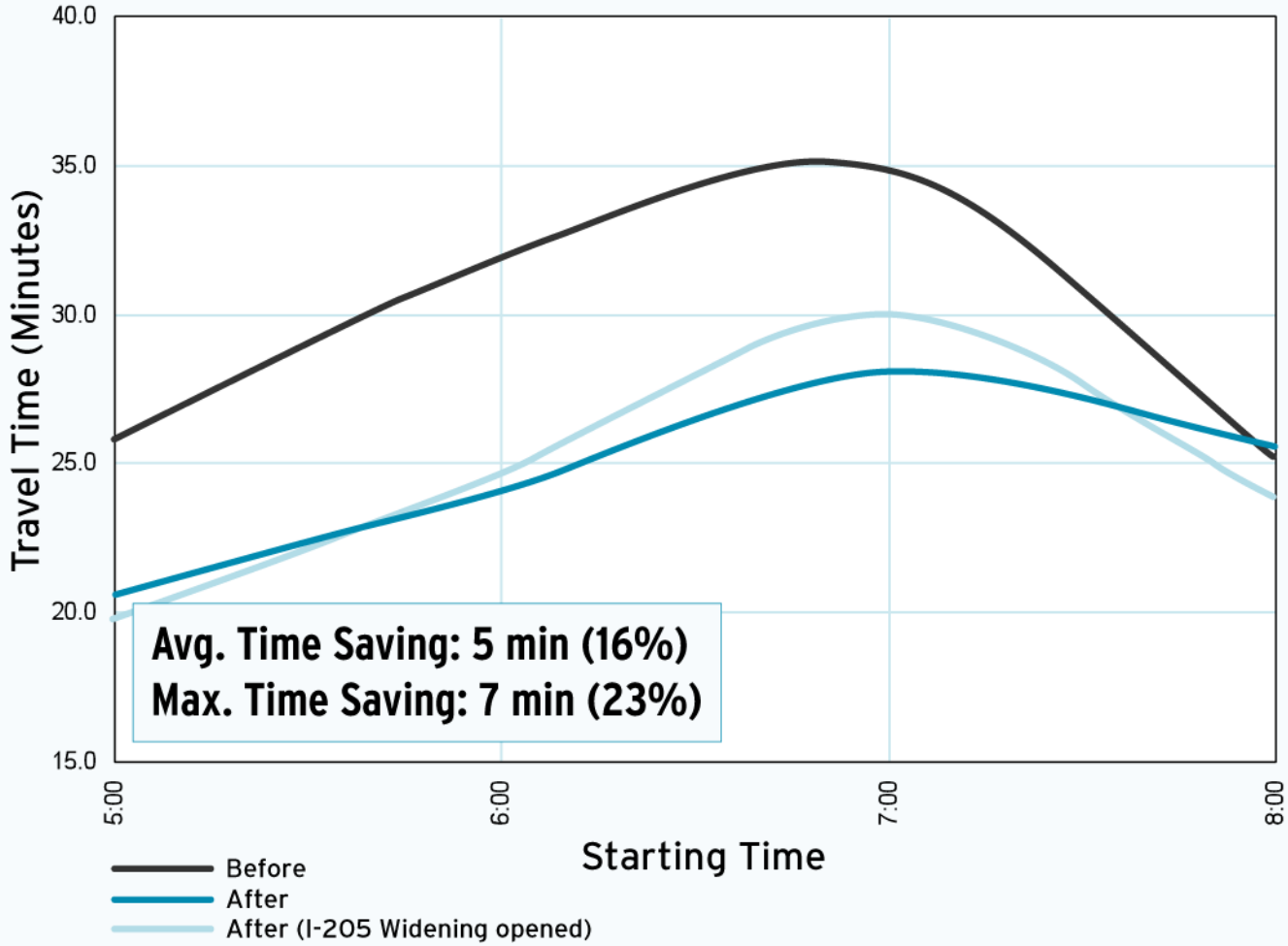
WB ALA 580 from I-205 to Foothill Rd.(AM Peak)



Data source: WB I-580 Ramp Metering "Before" and "After" Evaluation - Phase II Draft Report by Kimley-Horn Associates dated July 2009

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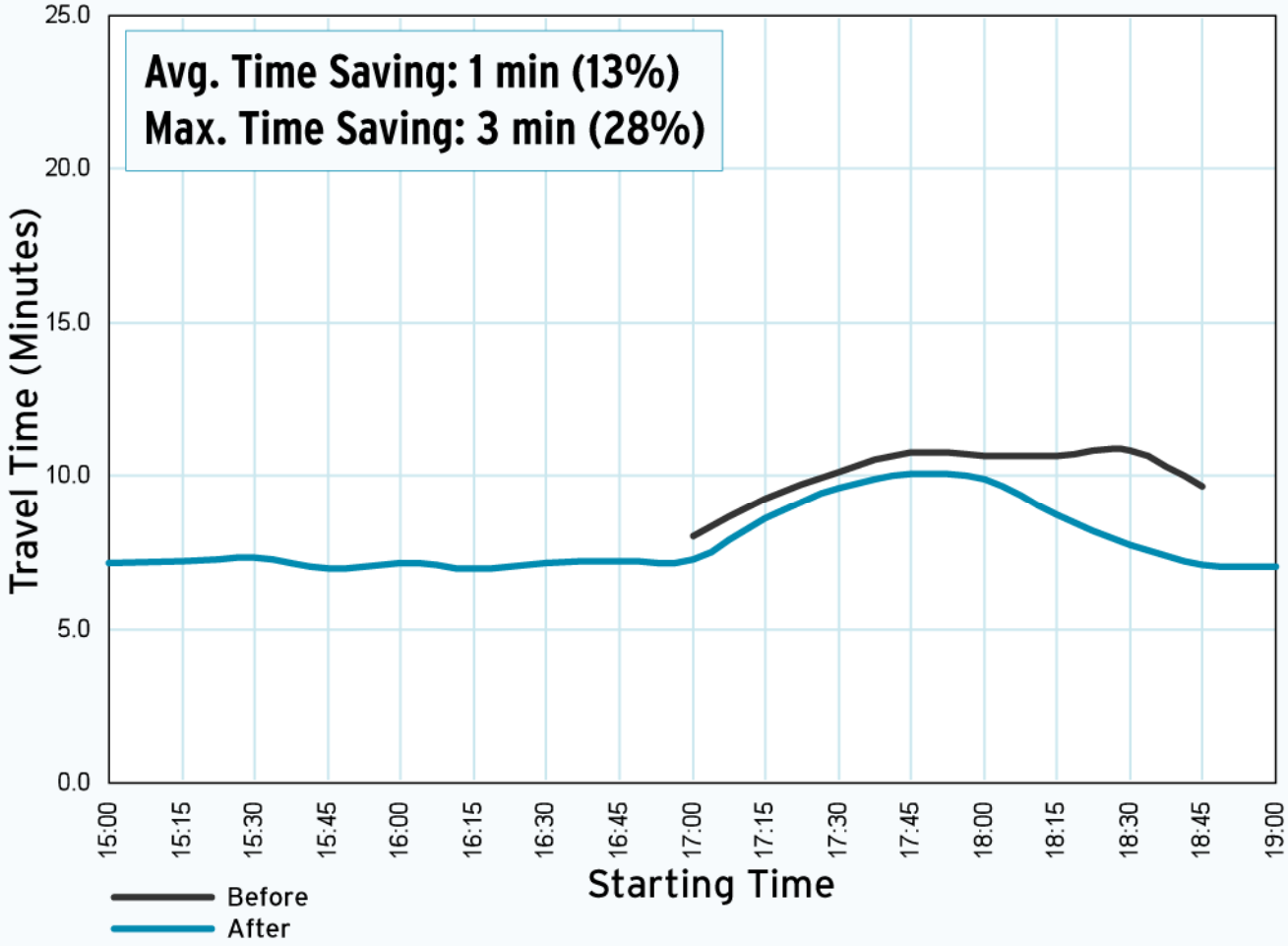
NB SM 280 from Sneath Lane to Serramonte Blvd. (PM Peak)



Data source
"Before": travel time data collected in May and October 2008 by Fehr and Peers Transportation Consultants.
"After": travel time data collected in October 2008 by Caltrans Ramp Metering Group.

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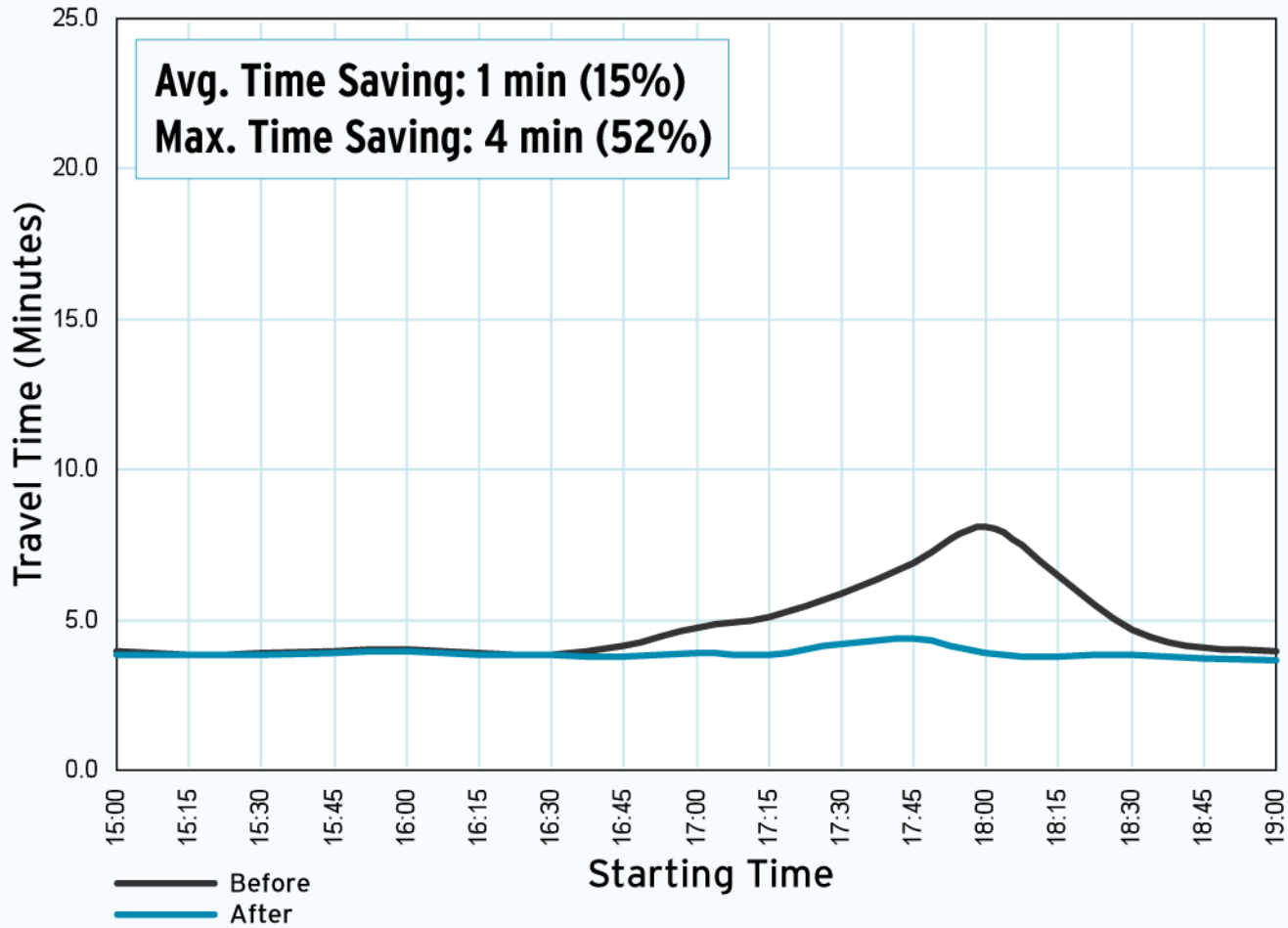
SB SCL 85 from Almaden Expressway to Cottle Road (PM Peak)



Data source: SR 85 Ramp Metering Study Final Report (Draft) by Kimley-Horn and Associates, Inc. dated August 3, 2009

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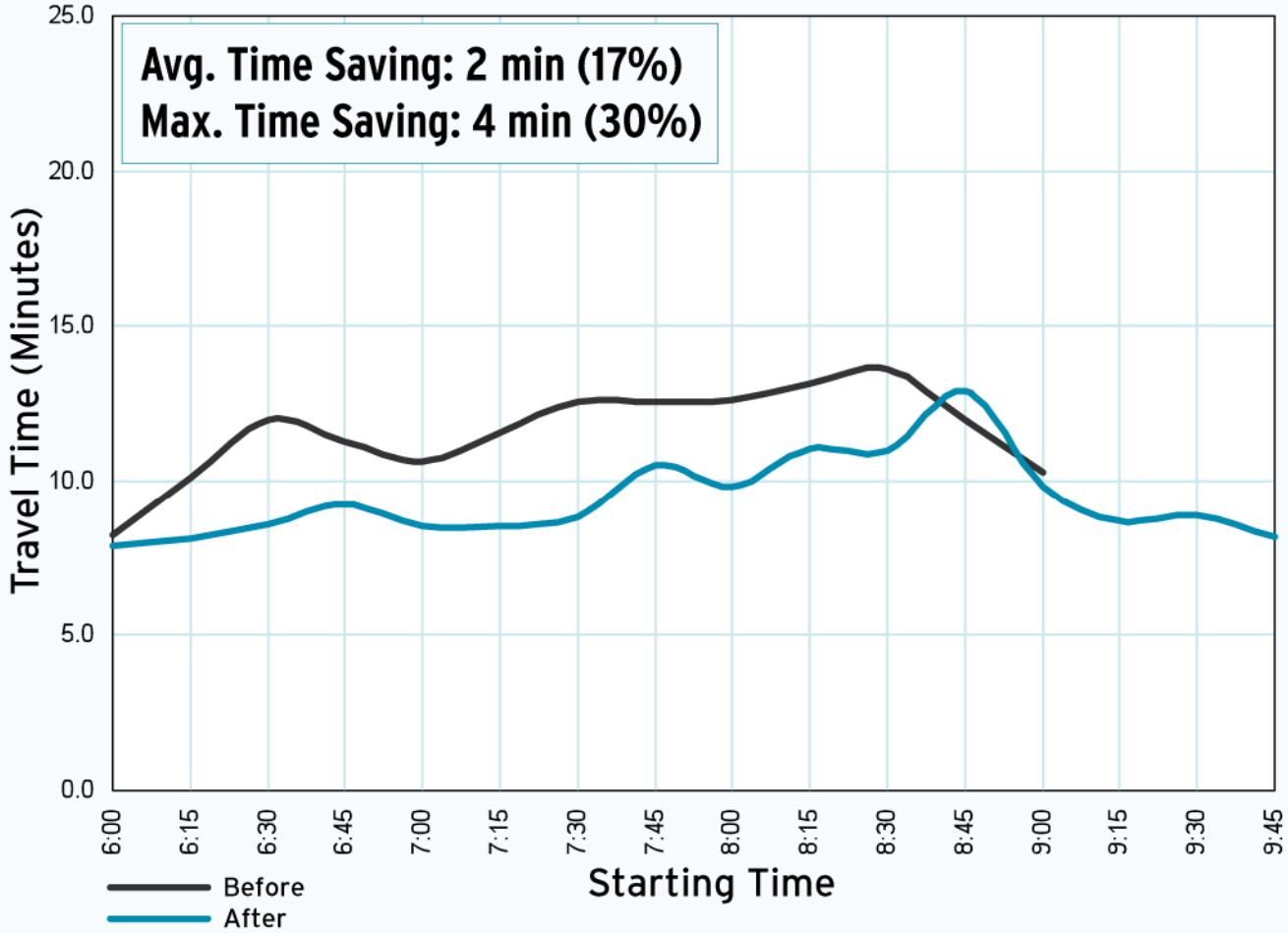
NB SCL 87 from SR 85 to Skyport Blvd. (AM Peak)



Data source
"Before": the "Before" study data memorandum by Kimley-Horn and Associates, Inc. dated July 14, 2008.
"After": travel time data collected in April 2009 by Caltrans Ramp Metering Group

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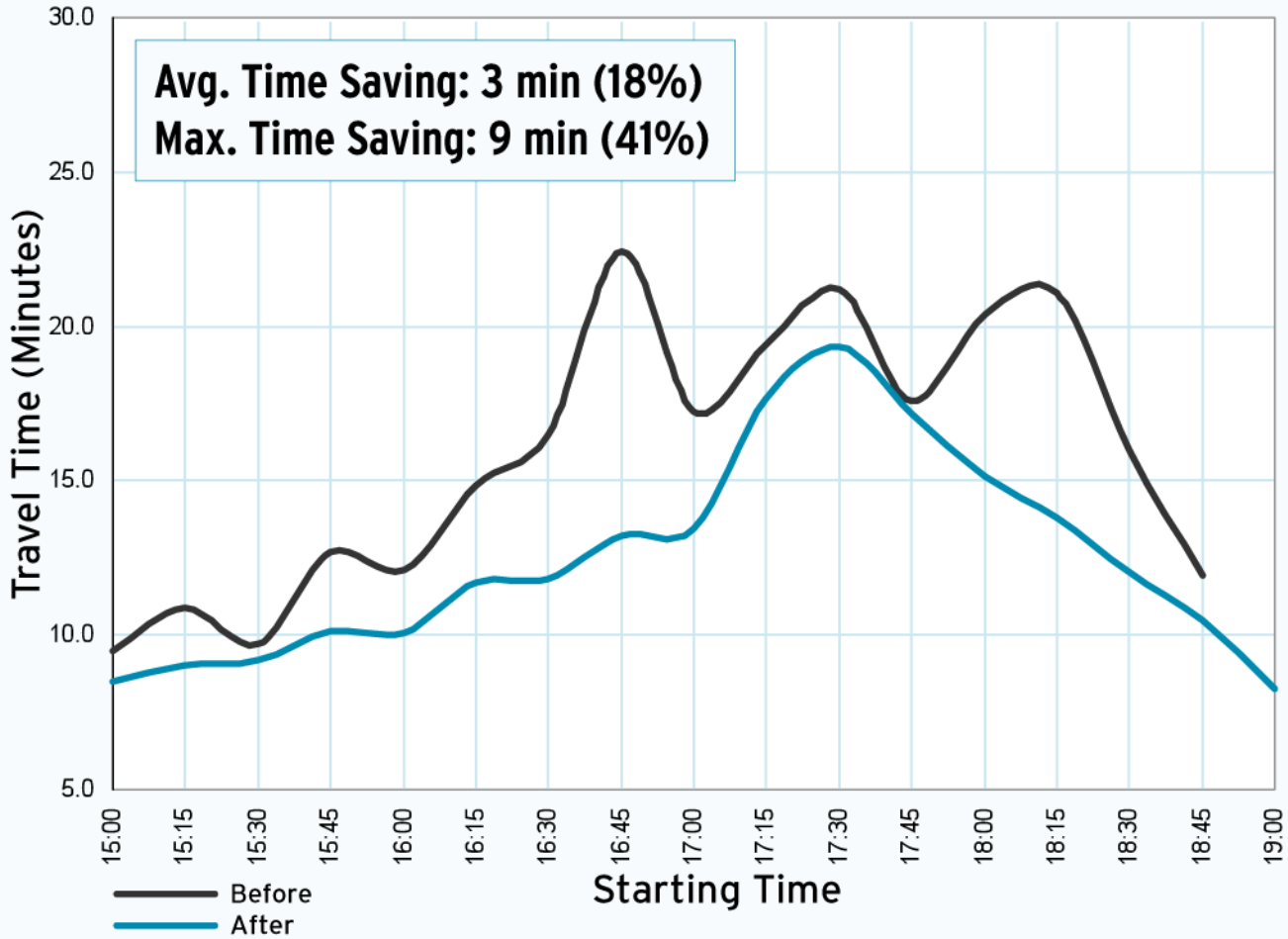
SB SCL 87 from Charcot Ave to Santa Teresa Blvd. (PM Peak)



Data source
"Before": the "Before" study data memorandum by Kimley-Horn and Associates, Inc. dated July 14, 2008.
"After": travel time data collected in March 2009 by Caltrans Ramp Metering Group.

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Upcoming Ramp Metering Implementations

- **Southbound US-101; Embarcadero to De La Cruz**
  - P.M. peak period
  - Estimated travel time savings of up to 7 minutes
  - Completes SB US 101 metering from SR 92 to SR 85 in San Jose
- **Southbound I-880 from SR-237 to I-280**
  - Fill metering gaps between SR-237 and US-101
  - Expands P.M. peak period metering
- **ARRA-funded projects (construction Spring ’10)**
  - Southbound SCl-280; Menker to 11th Street
  - Northbound SCl-280; Vine to Leland
  - Southbound SM-280; SR-1 to I-380

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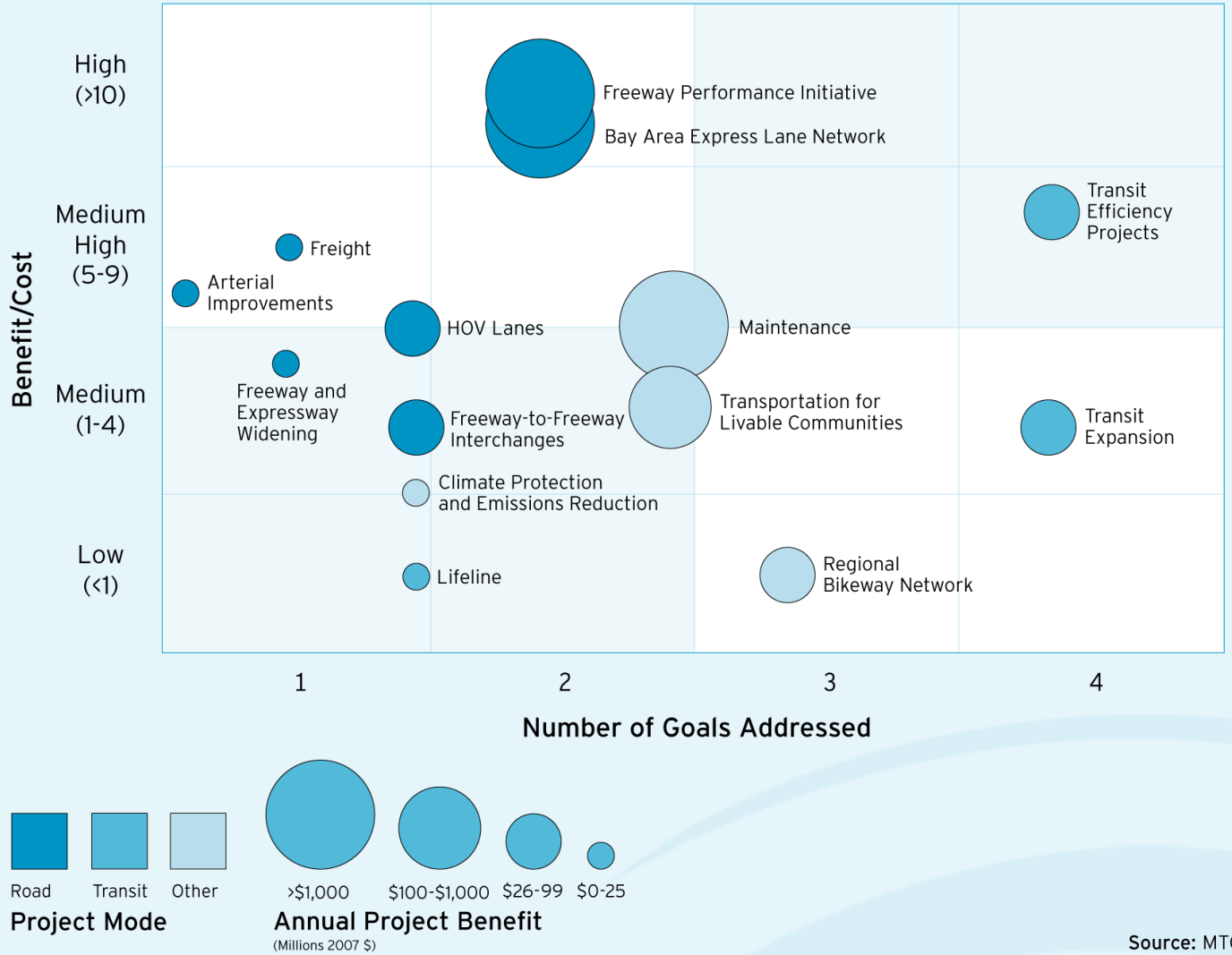
Project Performance



Source: MTC

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