

Regional SRTS Evaluation



Goals

1. Evaluate impacts of RSRTS-funded programs, including GHG emissions
2. Identify key successes and findings from RSRTS-funded programs



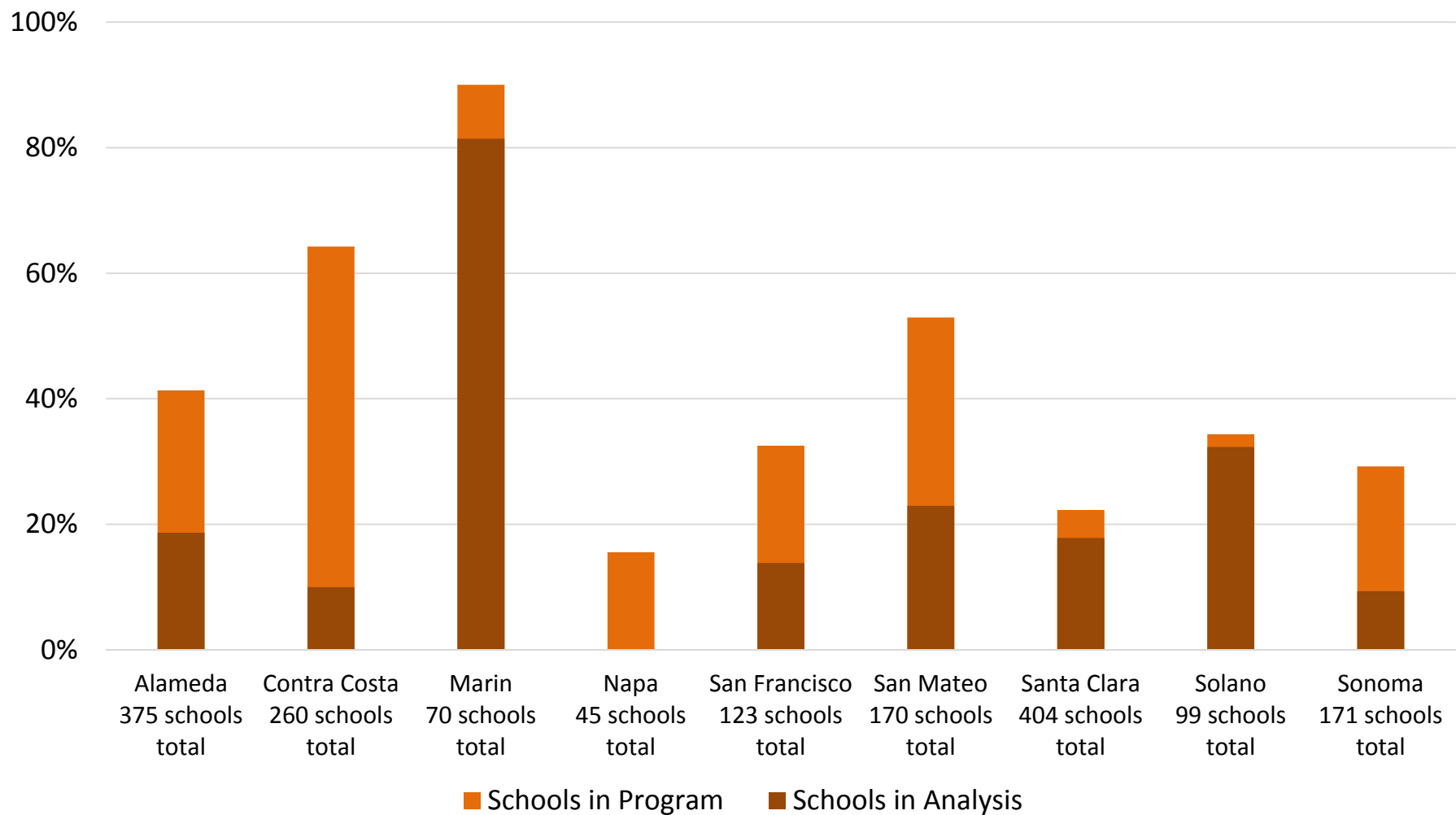
Data Collection



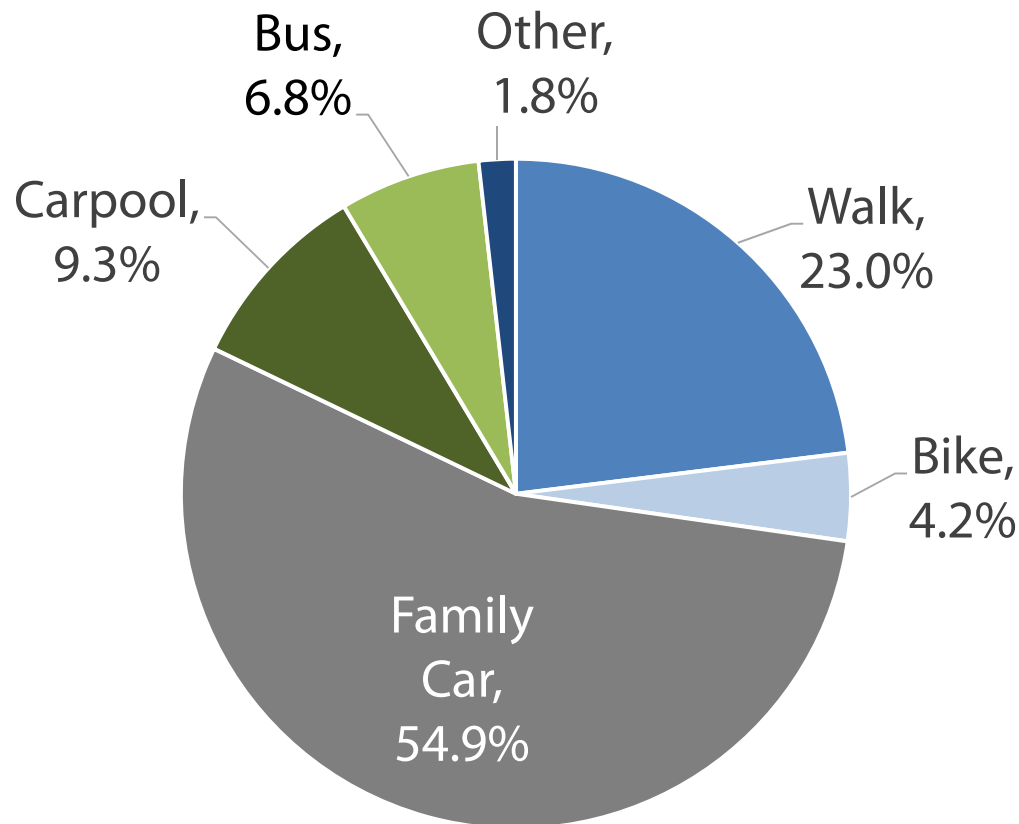
- **Analysis period: fall 2011 through spring 2014**
- **Sources:**
 - Student hand tallies
(1.1+ M trips, 90,000+ tallies; 330 schools; 8 counties)
 - Parent surveys (23,000 surveys; 107 schools; 5 counties)
 - Activity participation records (7 counties)
 - Census/DOE data
- **Analysis compared 'baseline' to 'follow up'**



Schools in Program vs. Analysis



Results: Current Mode Split



Overall Follow-Up Mode Split,
Student Hand Tally

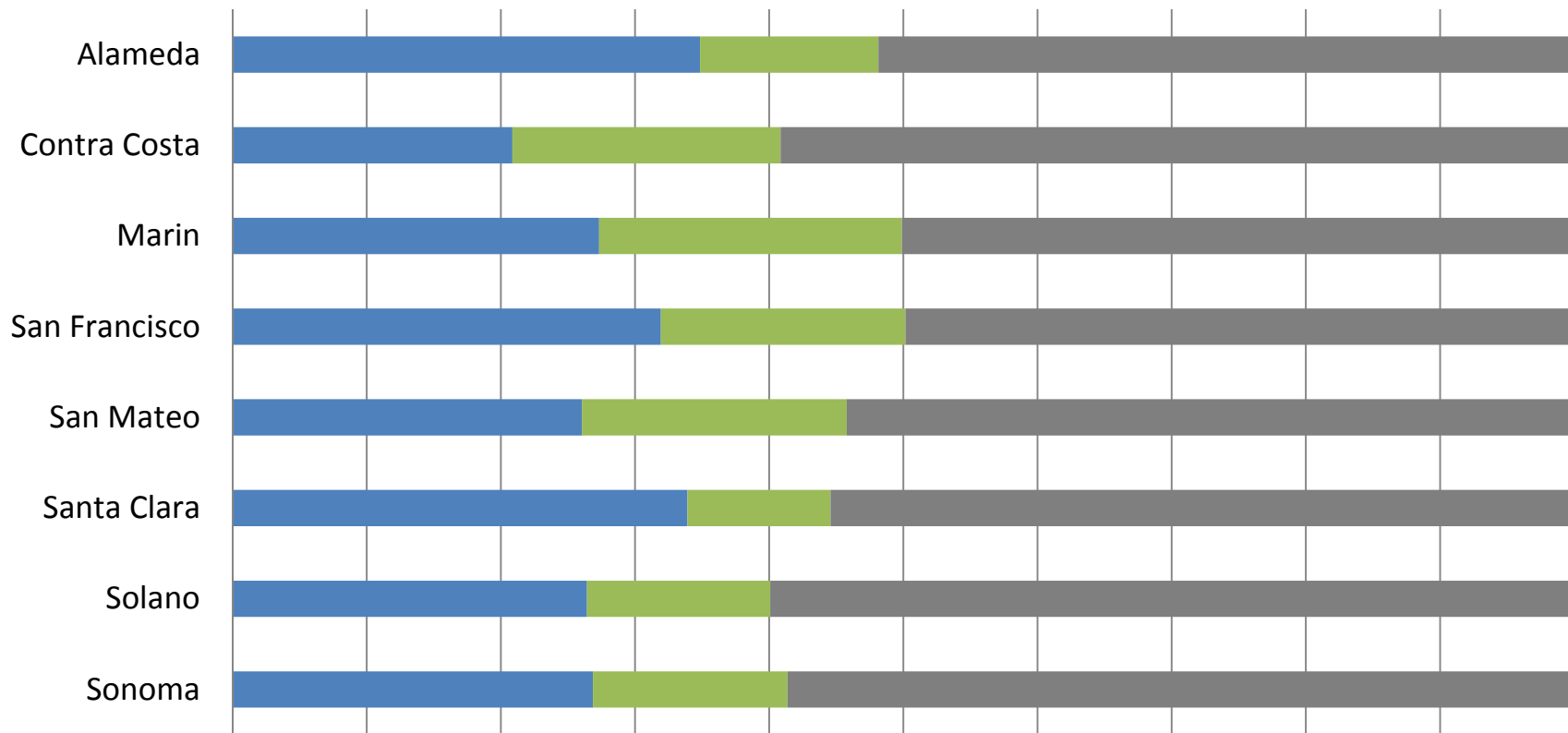
- **Bay Area 2013 Mode Split:**

- 66.1% drive alone
 - 11.3% transit
 - 3.6% walk
 - 3.3% other (includes bike)
- ACS 1-year estimate*

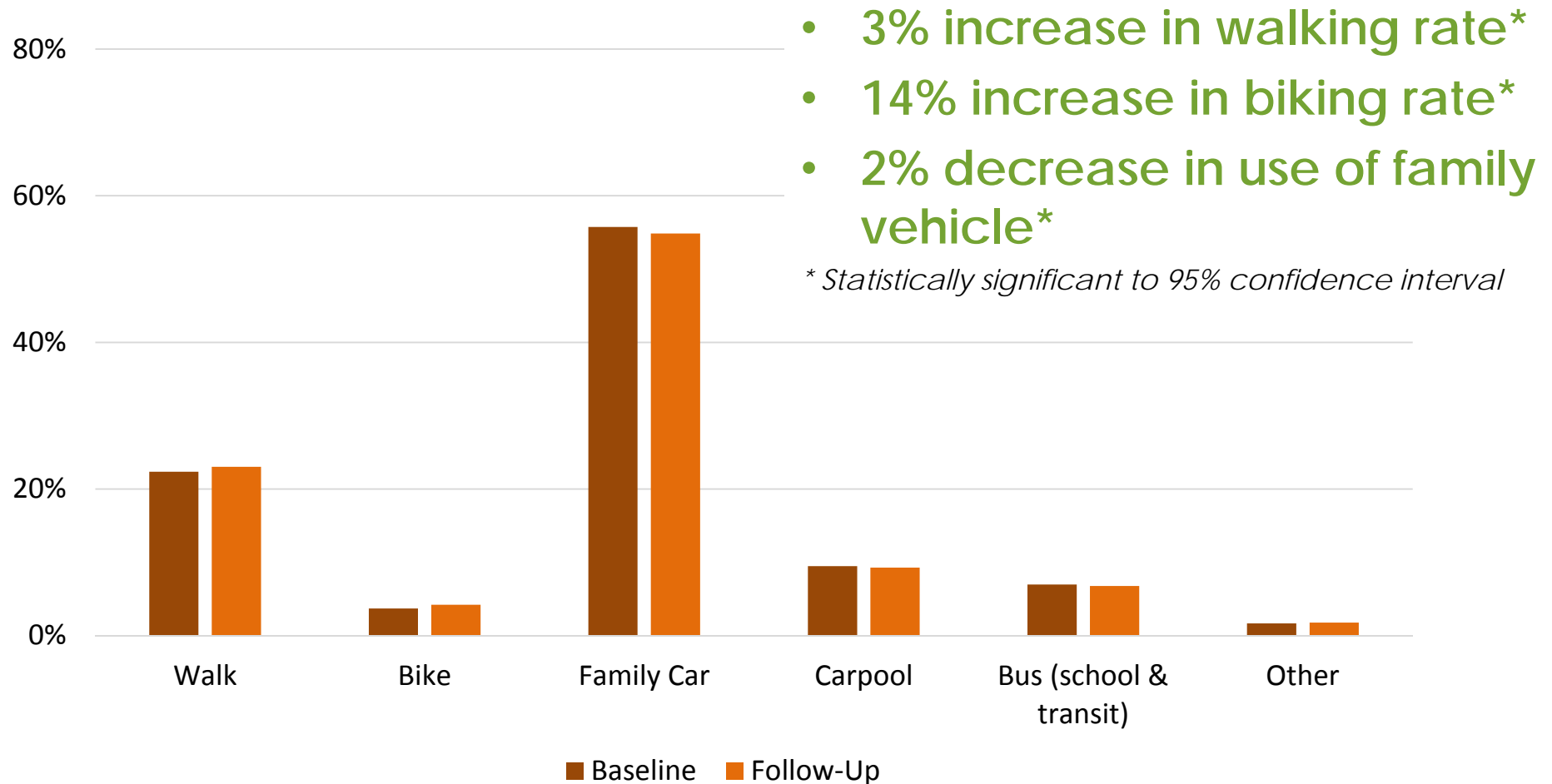
Regional SRTS Evaluation

Follow Up Mode Split by County, Student Hand Tally

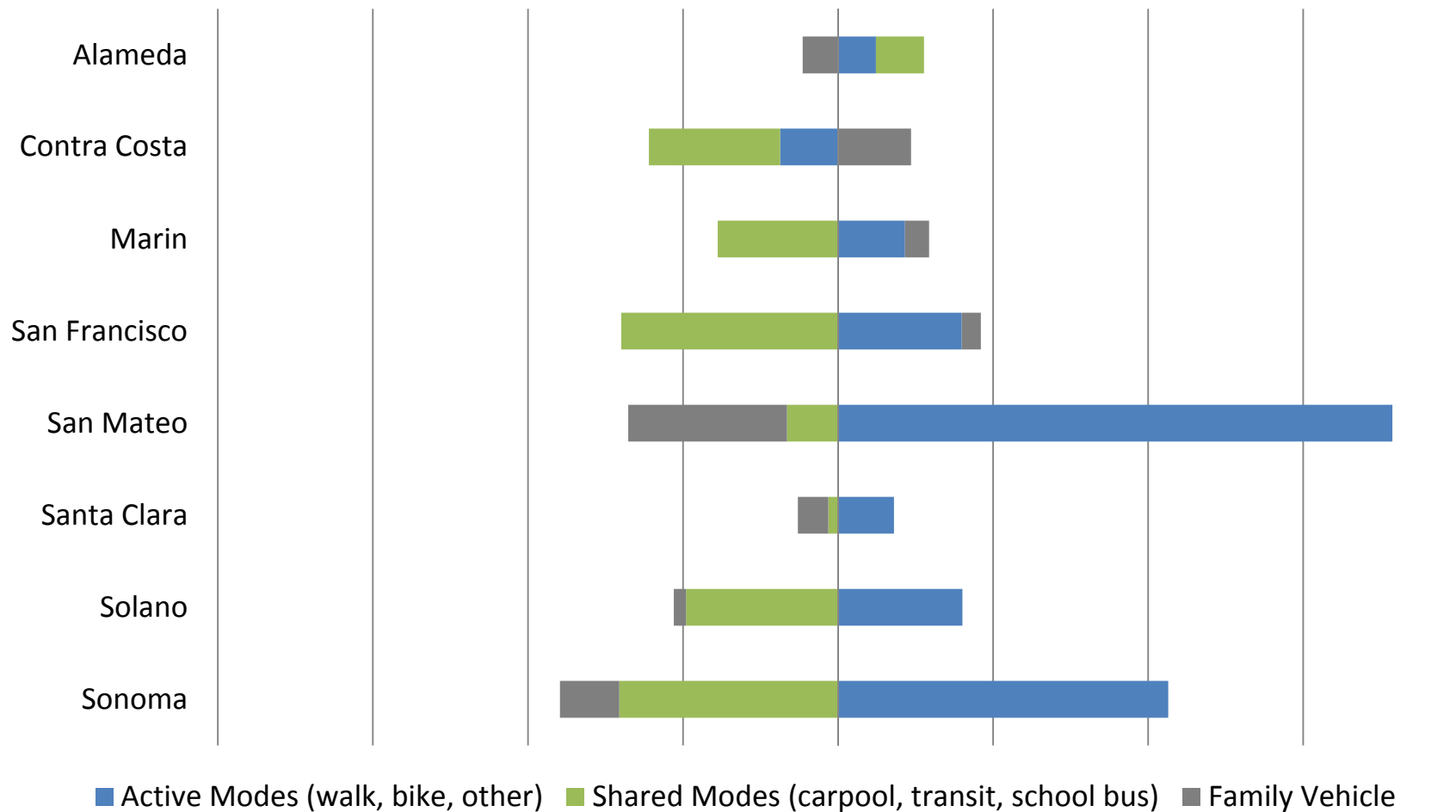
- Active Modes (walk, bike, other)
- Shared Modes (carpool, transit, school bus)
- Family Vehicle



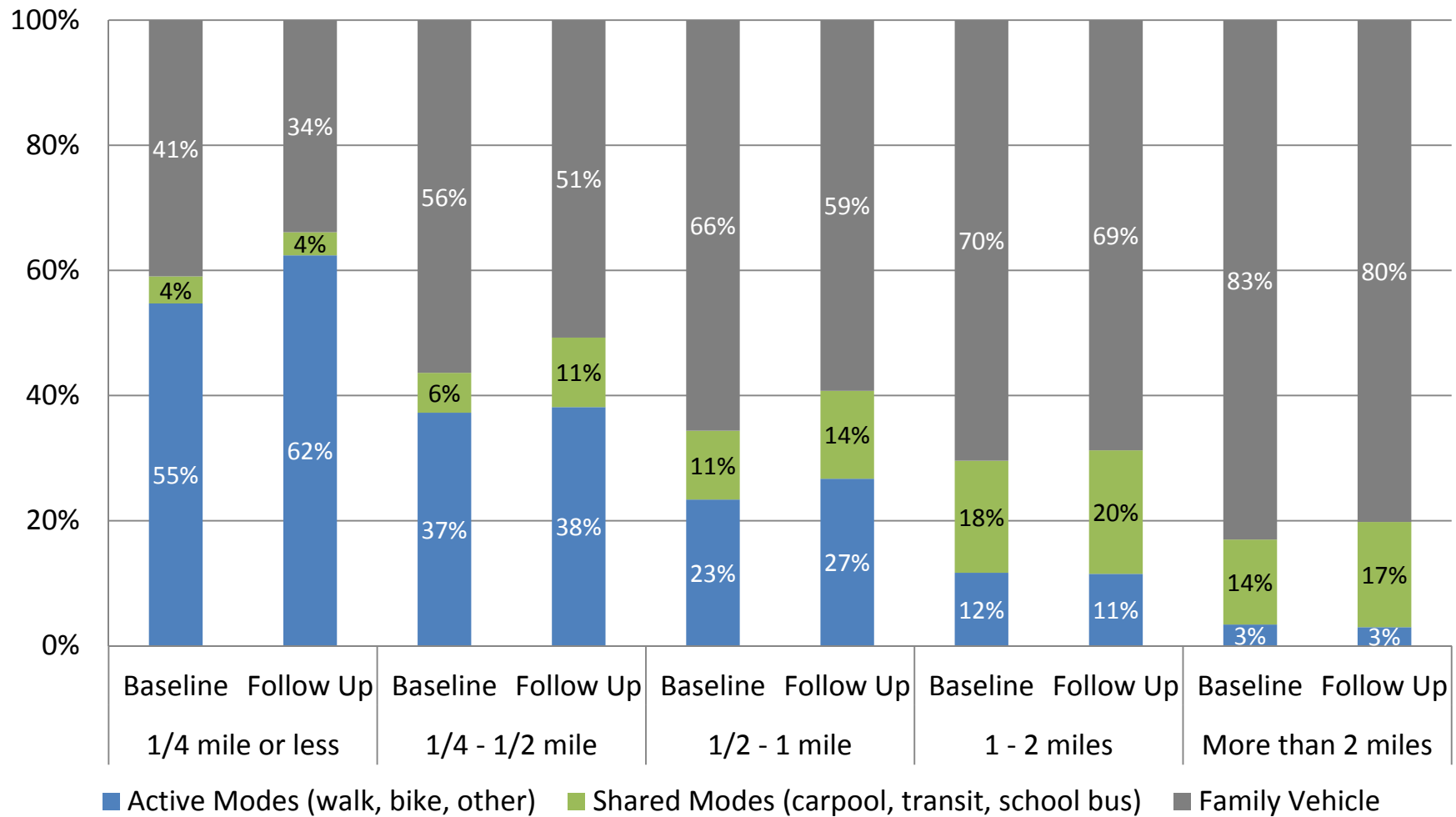
Results: Mode Shift



Results: Mode Shift by County

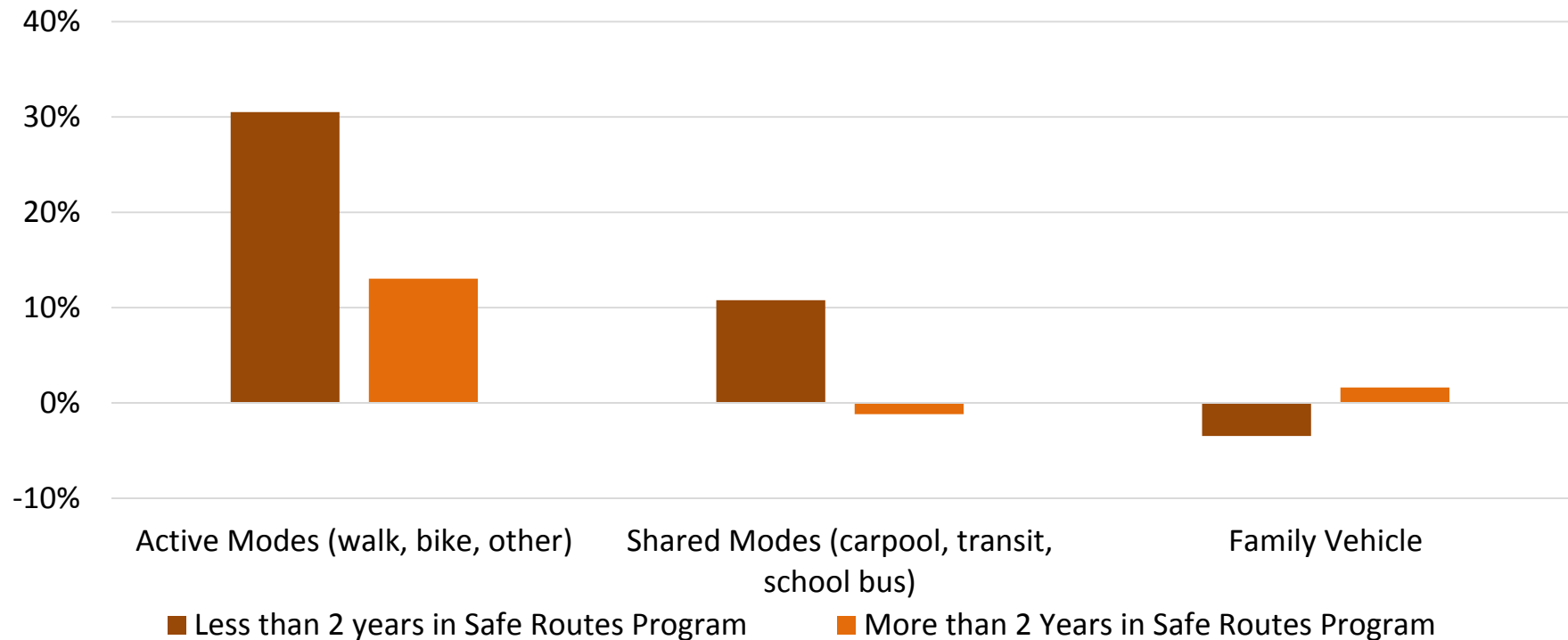


Results: Mode Split by Distance from School



Results: Mode Shift by Tenure

- Schools initiating new programs show greater mode shifts than schools that have had ongoing programs



Results: VMT and GHG



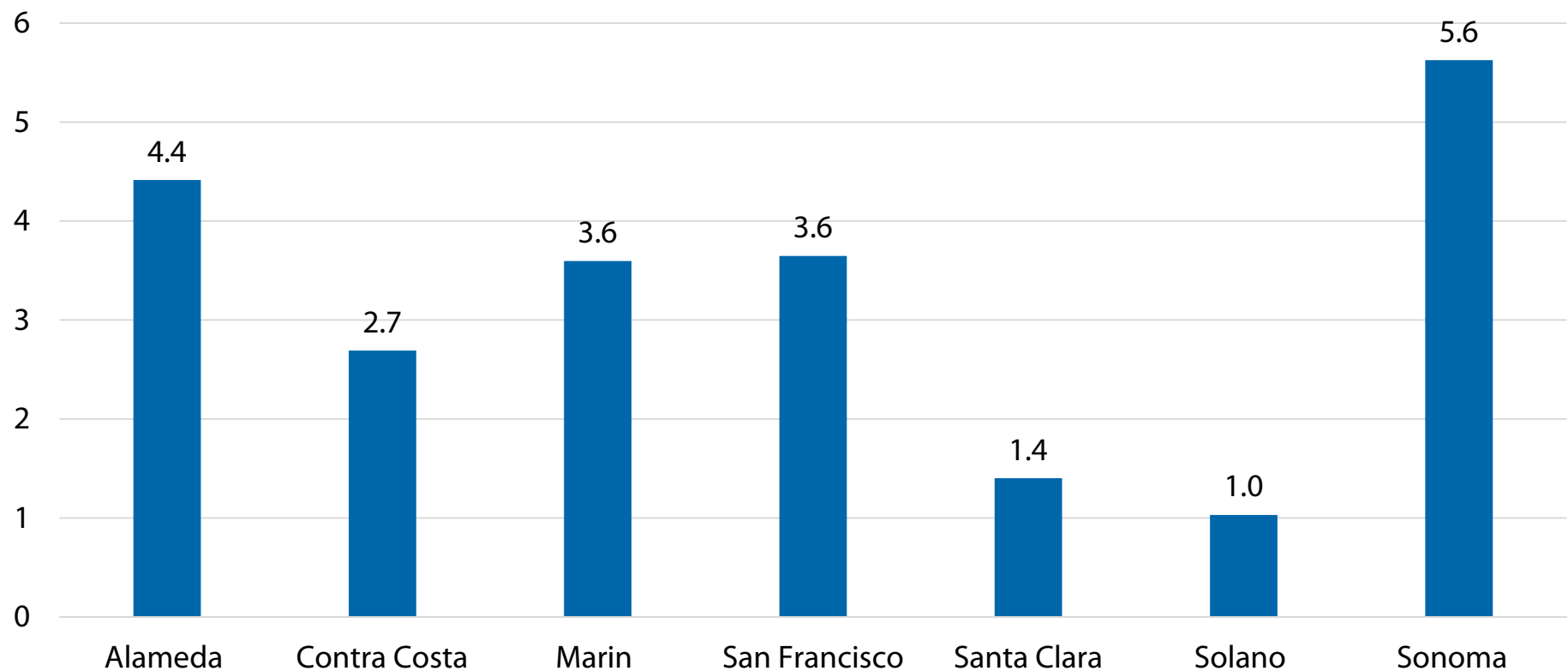
- Participating students collectively walked almost 200,000 more miles and biked almost 150,000 more miles annually
- Per student annual miles driven in the family car *decreased* by 6.2 miles
- 4.8% average reduction in GHG emissions per student (trips 1 mile or less from school)
- SRTS at ALL schools could reduce as much as of 5.3 million pounds of GHG emissions from transportation due to school trips



Results: Activity Participation



Average Number of Tracked Activities per School



Results: Activity Participation



- **Specific Safe Routes activities are correlated with increasing walking, biking, and carpooling**
 - Higher active transportation mode shifts:
 - frequent walk and roll programs
 - walking school bus/bike train programs
 - more total activities
 - more ongoing activities
 - Higher biking mode splits:
 - National Bike to School Day
 - Higher carpooling mode splits
 - carpooling encouragement activities



Results



- Parents' positive perceptions of walking and biking are correlated with a higher walking and biking mode split
- Underserved populations tend to have higher rates of walking but lower rates of biking or carpooling
- Higher rates of crashes near the school are correlated with increase in family vehicle mode split



Results by County



Alameda County Safe Routes to School Evaluation

Program Administrator
Alameda County
Transportation
Commission (Alameda CTC)



Primary Implementer
TransForm

METROPOLITAN
TRANSPORTATION
COMMISSION

BY THE NUMBERS

2006 **16**
Program began as a Caltrans grant-funded pilot program at two schools in Oakland. Municipalities served.

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FUNDING FOR 2011-2014:

\$3.2 MILLION

Cycle 1 RSRTS funding from MTC's Climate Initiatives Program

\$0.5m San Leandro Federal Cycle 3 SRTS grant and local Measure B funds.

\$0.5m Climate Initiatives Creative Grant for BikeMobile.

\$0.27m Measure B local transportation sales tax matching funds.

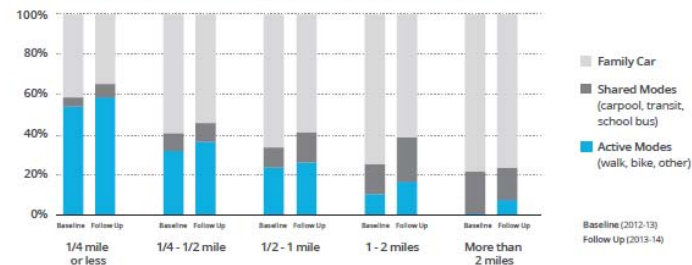


23% MORE STUDENTS BICYCLING TO SCHOOL



16% FEWER TRIPS BY FAMILY VEHICLE among students living within a quarter-mile of school (2% overall).

How Students Traveled to and from School by Distance Family Lives from School



Overall, the program saw a

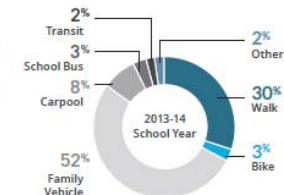


9% REDUCTION IN GREENHOUSE GAS EMISSIONS

PER STUDENT ANNUAL MILES BIKED **INCREASED 2.8 MILES**

PER STUDENT ANNUAL MILES DRIVEN IN THE FAMILY CAR **DECREASED 6.2 MILES**

How Students Currently Travel to and from School



2,208 HOURS OF PHYSICAL ACTIVITY INCREASED due to students shifting to active modes.

15% more parents felt that walking and biking to school is fun for their children.

92% of schools participated in International Walk & Roll to School Day.

Analysis based on student hand tally data from 71 schools and parent survey data from 18 schools between 2012 and 2014. See report for more details.



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT



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Information Sharing & Upcoming Events

