Redefining Mobility Randy Iwasaki Executive Director Contra Costa Transportation Authority November 8, 2018





Contra Costa County, California









Who We Are

- CCTA is a public agency formed by voters in 1988 to manage the county's transportation sales tax program and to lead transportation planning efforts.
- We are responsible for maintaining and improving the county's transportation system by delivering critical transportation infrastructure projects to safely and efficiently get people where they need to go.
- Managing entity of autonomous vehicle (AV) testing site:
 GoMentum Station.



What We Do



PEDESTRIAN

Make improvements to sidewalks, crosswalks, trails, and paths



LOCAL STREETS

Smooth traffic flow on major roads and invest in improvements such as repairing potholes and road surfaces



BUSES

Invest in a reliable, comfortable and convenient bus network



SAFE ROUTES TO SCHOOLS

Focus on programs and projects aimed at bicycle and pedestrian safety for K-12 students



FERRIES

Expand the Bay Area ferry system by looking to ferries as an alternate commute method between West County and San Francisco



BICYCLE

Invest in safe routes and infrastructure improvements for cyclists



BART

Improve BART service and stations, extend routes and increase parking at stations



HIGHWAYS

Complete Contra Costa's highway system, and improve air quality and noise protection along these corridors



CARPOOL/RIDESHARE

Implement programs to reduce traffic congestion by encouraging carpooling and ridesharing



PROGRAMS FOR SENIORS AND PEOPLE WITH DISABILITIES

Enhance transit options to improve mobility for seniors and people with disabilities

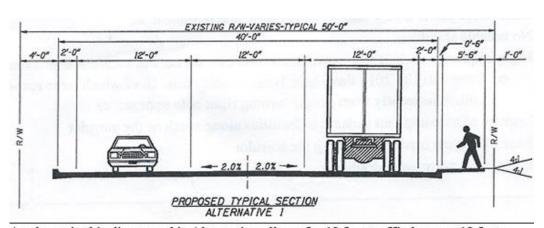


Do we need ever to widen a roadway and highway?



Do we need to design12 foot lanes anymore??



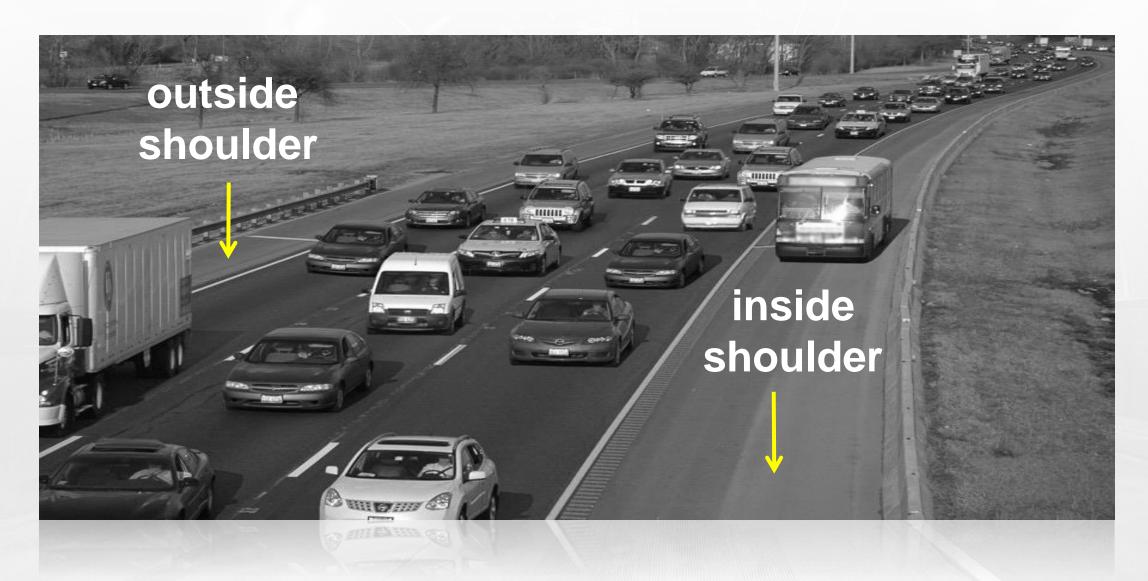


As shown in this diagram, this Alternative allows for 12 foot traffic lanes, a 12 foot center turn lane, shoulders 2 feet wide, and a sidewalk on one side of the road, separated from the road shoulder by a 6 inch strip.

(Graphic courtesy Idaho Transportation Department)

Crapbe contact latter/bampointed Department

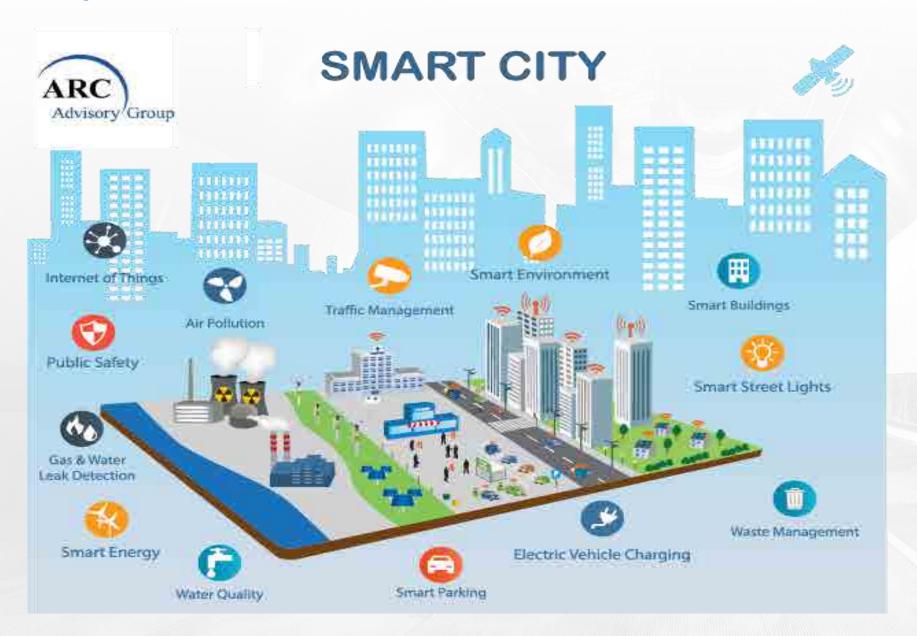
Shoulder Lane Utilization?



"Complete Street" Design Creates a Safe Environment

Street modifications can have a significant positive impact on safety

City 5.0 Environment



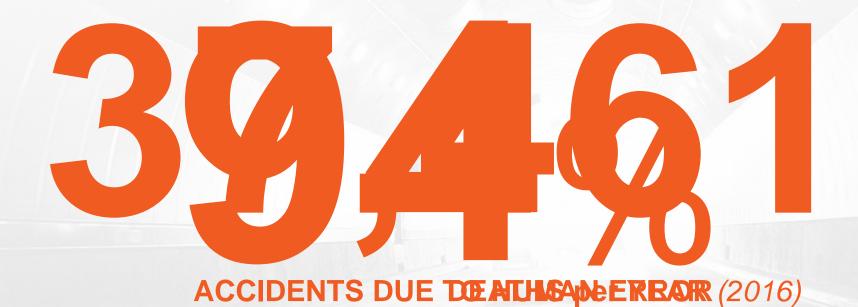


Why Autonomous Vehicles?

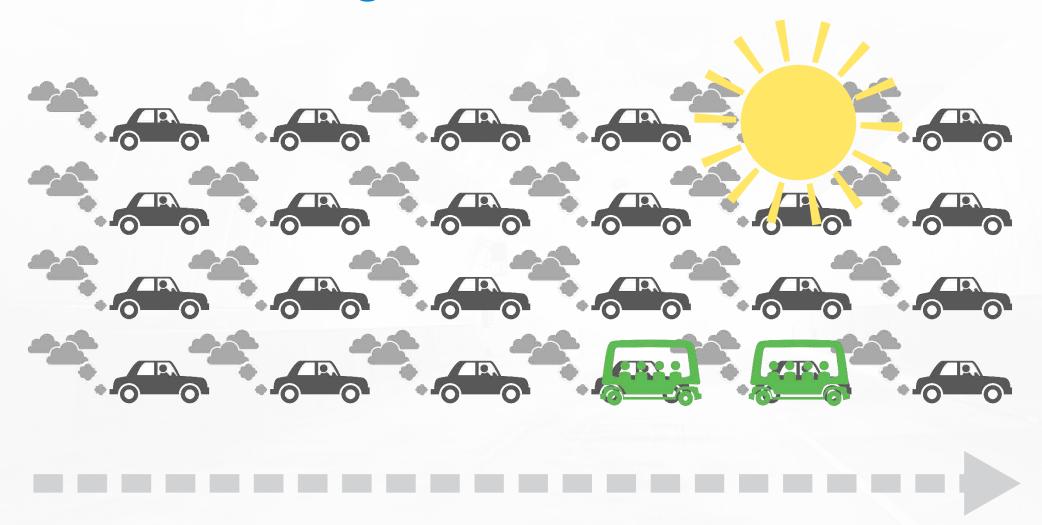
- Safer Roads
- Less Congestion & Better
- Air Quality
- Increased Accessibility & Opportunity



Enhanced Safety



Reduce Congestion



Increased Accessibility, Opportunity

Studies show that commute time is <u>the</u> key factor in social mobility, more so even than factors related to crime or education.*





GoMentum Station

DOT designated testing site with more than **5,000 acres**

2,100 acres currently available for testing













One of Ten

GoMentum was 1 of 10 federally approved AV test sites in U.S.





Global Test Centers





Goals of GoMentum

ECONOMIC GROWTH & JOB CREATION

EFFICIENT MOBILITY

21st CENTURY TRANSPORTATION

ENHANCED SAFETY



HEALTHIER ENVIRONMENTS

Paved Roads

Over 20 miles of paved roadways including a 7-mile long spine road for high speed testing





Tunnels

Two 1400-ft. long tunnels ideal for testing guidance, sensors & communications technologies





Bridges

Freeway underpasses and variable roadway geometrics





Parking Lots

Several parking lots for testing by multiple users





Testing Partners















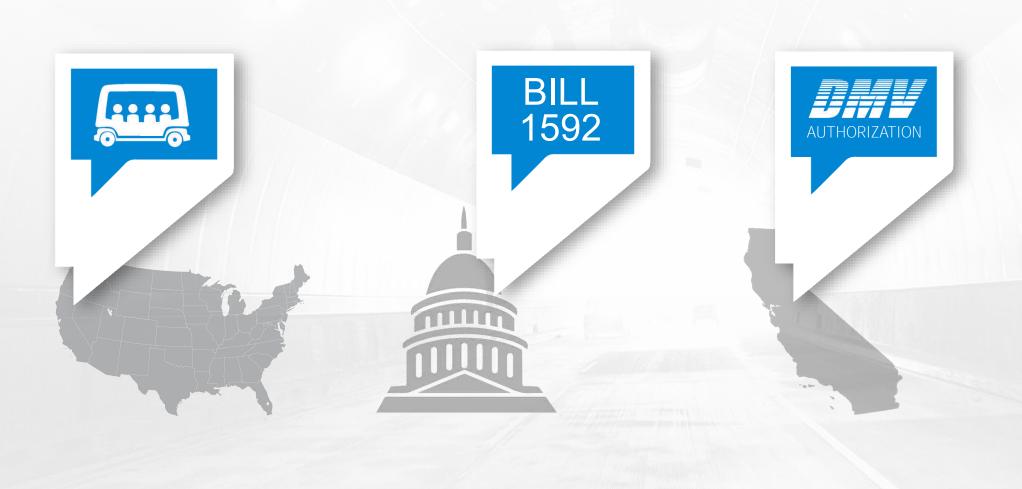






Shared Autonomous Vehicle (SAV) Project

We've Celebrated Many "Firsts"



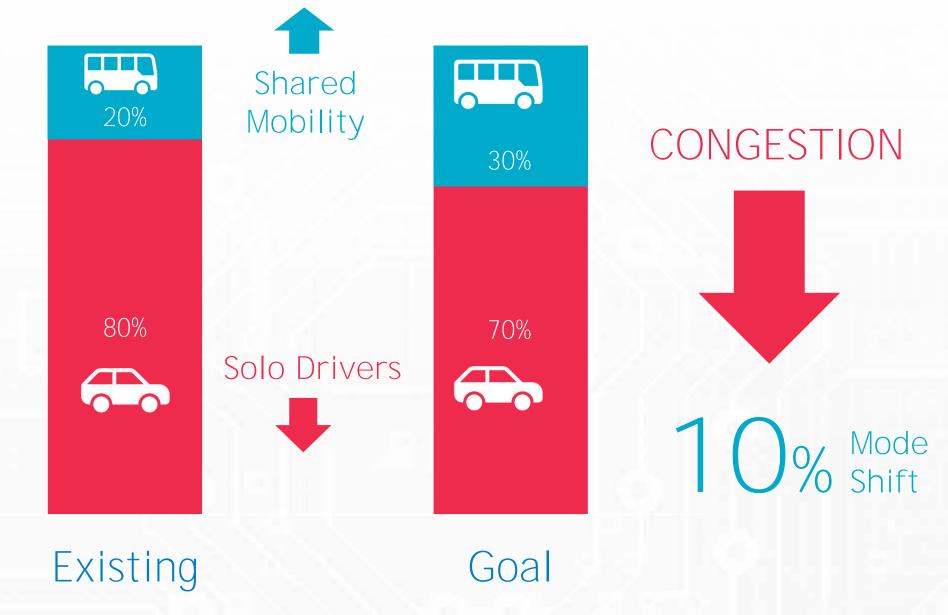






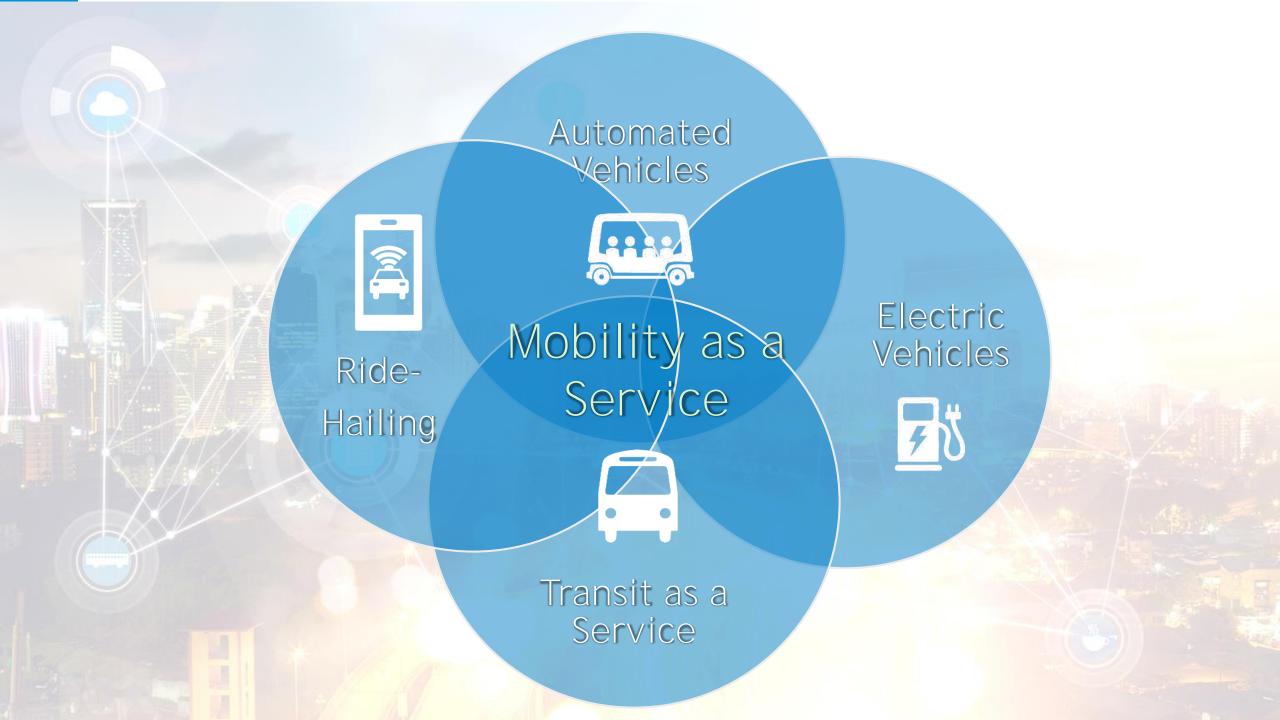


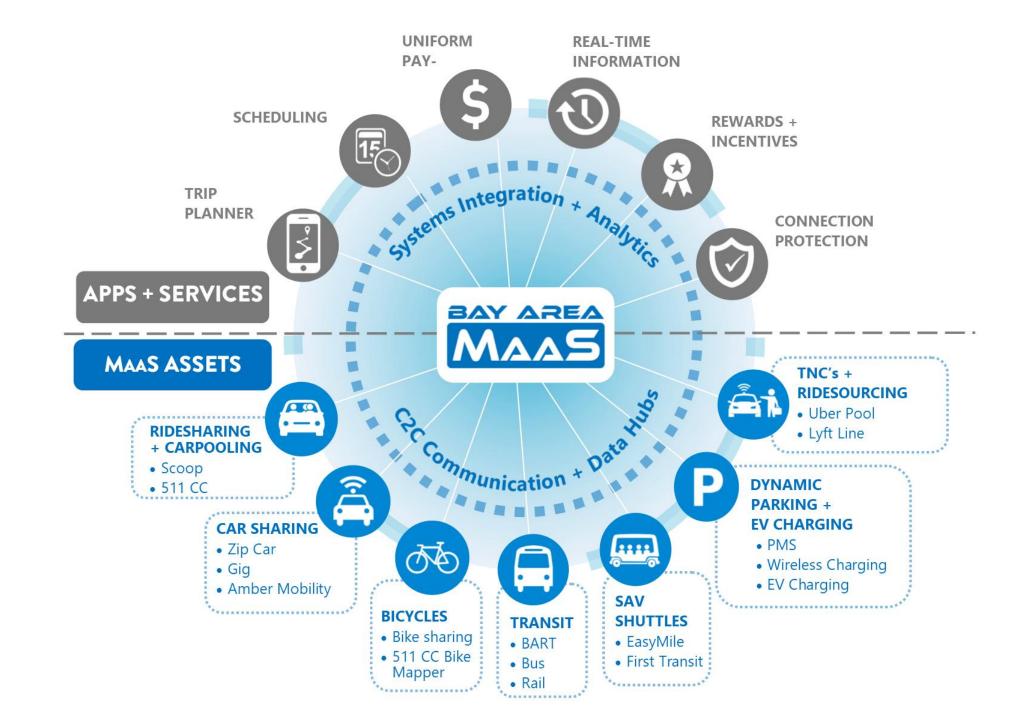
Mode Shift



Mobility as a Service (MaaS)

A combination of public and private transportation services that provides personalized mobility options based on traveler needs, to enable end-to-end **Journeys** paid for by the traveler with a single payment, and aims to optimize the transportation system.





2019 redefining MOBILITY SUMMIT

transportation authority



Thank you

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