INNOVATE 680

IMAGINE THE POSSIBILITIES

Our Focus

CONGESTION RELIEF

Interstate 680 (I-680) is a backbone corridor for the Bay Area. It extends south to Silicon Valley and north to Fairfield, while providing access to scenic recreational areas, popular retail hubs, and thriving business centers. I-680 is critical to the region's prosperity as it provides for the movement of goods, services, and people throughout northern California and beyond. Thousands of homes and businesses rely heavily on this corridor for day-to-day travel.

The economic vitality and quality of life for residents depends on the ability to get where they need to go efficiently and safely. In 2015, it took the average person almost 25 minutes longer to commute northbound on I-680 during peak drive time versus nonpeak drive time. In 2020, that delay is expected to nearly quadruple. Such increases make travel along this corridor highly unpredictable and unreasonably time consuming.

As the congestion management agency for the county, the Contra Costa Transportation Authority (CCTA) is focused on alleviating the congestion that plagues I-680 to improve the quality of life for all Contra Costa residents.

Our Goal

A NEW GENERATION OF MOBILITY

Imagine consistently smooth flowing traffic, increased travel speeds, and innovative options for getting where you need to go without having to drive a car. What if, in addition to more predictability in your travel time, you also gained extra time each day to do the things important to you? CCTA has a plan for that!

Our goal is to provide a new set of easy-to-use options and tools that will improve mobility for everyone and encourage travelers to move toward shared modes.

In 2020,

the average drive time delay during peak hours on I-680 was expected to reach

90 minutes.*

**When traveling from one end of the county to the other.*

Issued 2020

Our Approach

6 PROJECTS 1 FULLY CONNECTED CORRIDOR

Alleviating congestion in Contra Costa County does not have a one-size-fits-all solution. Simply adding lanes is not an option as I-680 lacks the physical space for expansion. Any congestion management plan for the corridor must be carefully planned and must consider smart, forward-thinking upgrades to the existing infrastructure.

Integration of several innovative strategies is key to optimizing the county's transportation system. By using advanced technology, CCTA can simplify access to reliable mobility options through real-time, data-driven traffic updates that allow travelers to make informed decisions about cost, timing, route, and, most importantly, mode. Each of the 6 projects that make up the INNOVATE 680 program play an important role in this integrated approach and, when operating together, will maximize the efficiency of the corridor.

PROJECT 1
PART-TIME TRANSIT LANES

Enabling buses to travel on dedicated shoulder lanes (or transit-only lanes) to bypass congestion during heavy traffic will make transit a more reliable and attractive travel option, and it will help reduce congestion on the freeway and express lanes. Part-time transit lanes are currently planned between **Bollinger Canyon** and **Ygnacio Valley Roads**. Added buses will increase on-time performance.

PROJECT 2
EXPRESS LANE COMPLETION

Extending the existing express lanes from **Rudgear Road** in Walnut Creek to the **Benicia Bridge** will provide 25 miles of nearly continuous express lanes in the northbound direction. The goal of this express lane system is to increase travel speeds for those choosing to travel by carpool, vanpool, or motorcycle.

PROJECT 3
ADVANCED TECHNOLOGY

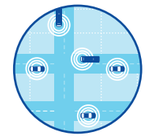
Operational data gathered from high-tech infrastructure, like **Integrated Corridor Management** (ICM) and **Adaptive Ramp Metering** (ARM), will refine the transportation system through a countywide connected data center. Real-time traffic information, based on the data gathered, will prompt dynamic adjustments to traffic signals and will send travelers actual traffic updates. Similar congestion management tools are in operation around the world and some countries have shown a 20% increase in freeway capacity.

PROJECT 4
SHARED MOBILITY HUBS

This project will include the planning and development of shared mobility hubs at existing park and ride lots along I-680 from **Bollinger Canyon Road** to **State Rount 4**. These hubs will complement part-time transit lanes and connections to other modes, such as microtransit, carpooling, vanpooling, ride-sourcing (i.e., Uber, Lyft), and bicycle and pedestrian facilities.

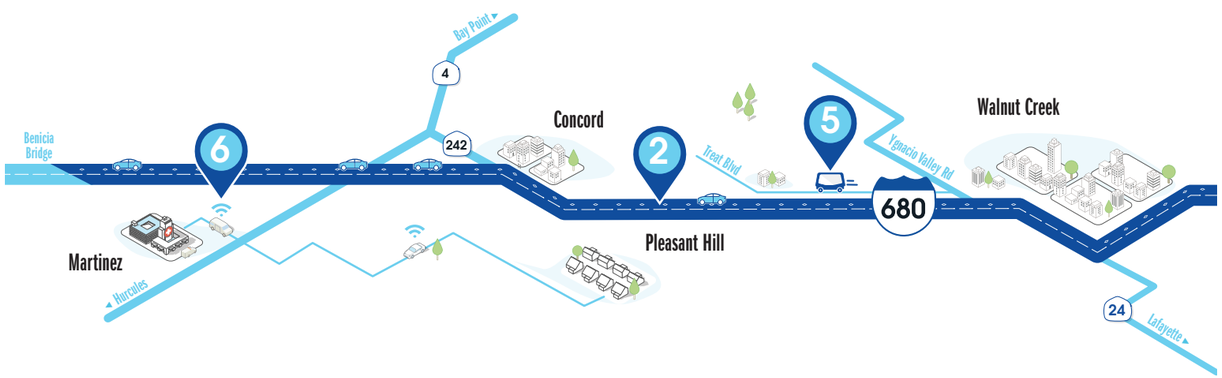
PROJECT 5
MOBILITY AS A SERVICE

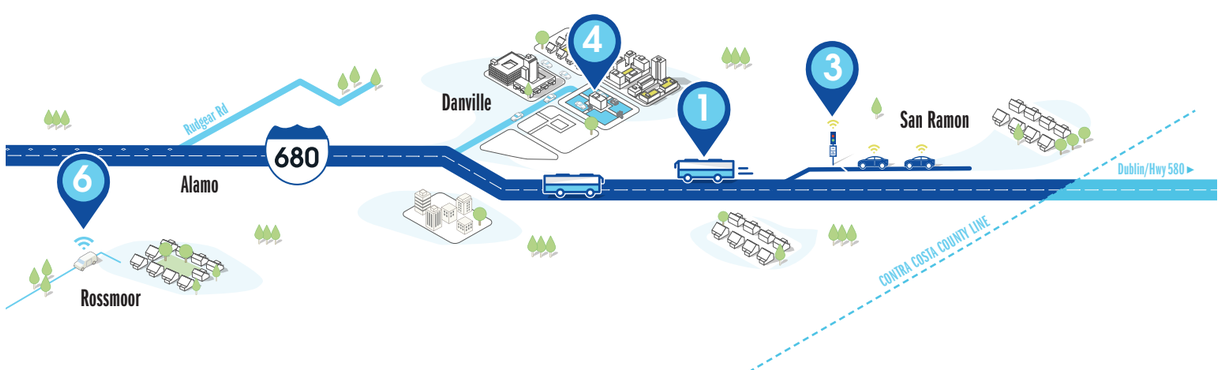
Mobility As A Service (MAAS) is a combination of public and private transportation services that provides personalized mobility options based on traveler needs, allowing you to plan, pay, and receive rewards for your trip.



PROJECT 6
AUTOMATED DRIVING SYSTEMS

Safety data gathered during this pilot project will inform the development of technology that allows infrastructure and vehicles to communicate with one another and avoid collisions. This data will also guide the creation of more accessible travel options for the elderly and disabled. Three ground-breaking demonstration projects will be conducted as part of this pilot: (1) Rossmoor First Mile/Last Mile Shared Autonomous Vehicles; (2) Martinez County Hospital Accessible Transportation; and (3) Improved Personal Mobility on I-680 corridor.





Our Strategies

THOUGHTFUL SOLUTIONS FOR A CONNECTED CORRIDOR

The INNOVATE 680 Program originated with one simple concept: a connected corridor that could move people faster and better. At the time, there were many strategies being considered, worldwide, for innovative solutions to improve traffic congestion, sustainability, mobility, and accessibility. The CCTA team studied all solutions carefully and curated a set of seven strategies that, when combined to function as an integrated solution, will relieve congestion, smooth traffic, and provide greener, more efficient transportation choices to all travelers. From these seven strategies, CCTA developed its six projects that make up the INNOVATE 680 Program.

Strategy 1: Complete Express Lanes

Strategy 2: Cool Corridor Hot Spots

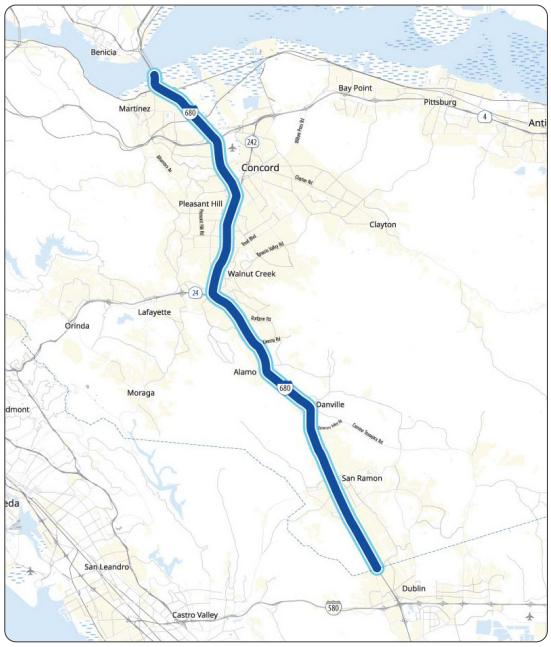
Strategy 3: Enhance Transit Service with Part-Time Transit Lanes

Strategy 4: Implement Innovative Operational Strategies

Strategy 5: Provide First Mile/Last Mile Connections with Shared Autonomous Vehicles

Strategy 6: Prepare the Corridor for the Future

Strategy 7: Apply Transportation Demand Management (TDM)



Your Benefits

- IMPROVED QUALITY OF LIFE
- TRAVEL TIME SAVED
- SAFER ROADS
- IMPROVED ACCESSIBILITY
- BETTER AIR
- LESS CONGESTION

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