

# Redefining Mobility/City 5.0

Randy Iwasaki  
February 17, 2017



# WHO WE ARE

- The Contra Costa Transportation Authority (CCTA) is a public agency formed by Contra Costa voters in 1988 to manage the county's transportation sales tax program and to lead the county's transportation planning efforts.
- CCTA is responsible for maintaining and improving the county's transportation system by planning, funding, and delivering critical transportation infrastructure projects and programs that connect our communities, foster a strong economy, increase sustainability, and safely and efficiently get people where they need to go.



# MEASURE C

- Passed by voters in 1988, Measure C provided for a half-cent on the dollar sales tax for twenty years (through March 2009) to pay for an ambitious list of transportation projects and programs.
- Measure C was estimated to generate \$1 billion over 20 years for a BART extension, freeway improvements, better bus service, enhanced bicycle facilities and more transportation options for senior citizens and people with disabilities.







## MEASURE J

- In November 2004, 71% of Contra Costa voters approved Measure J. The measure provided for the continuation of our county's half-cent transportation sales tax until 2034, and will provide approximately \$2.0 billion for countywide and local transportation projects and programs for the life of the measure.



# WHAT WE DO

- **BUSES-** Invest in a reliable, comfortable and convenient bus network
- **LOCAL STREETS-** Smooth traffic flow on major roads and invest in neighborhood improvements such as repairing potholes and road surfaces
- **PEDESTRIAN** - Make improvements to sidewalks, crosswalks, trails, and paths
- **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 bicyclists



- **BART-** Make improvements to BART service and stations, such as extensions to new routes and parking at stations



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



- **CARPPOOL/RIDESHARE-** Implement programs aimed at reducing traffic congestion by encouraging carpooling and ridesharing

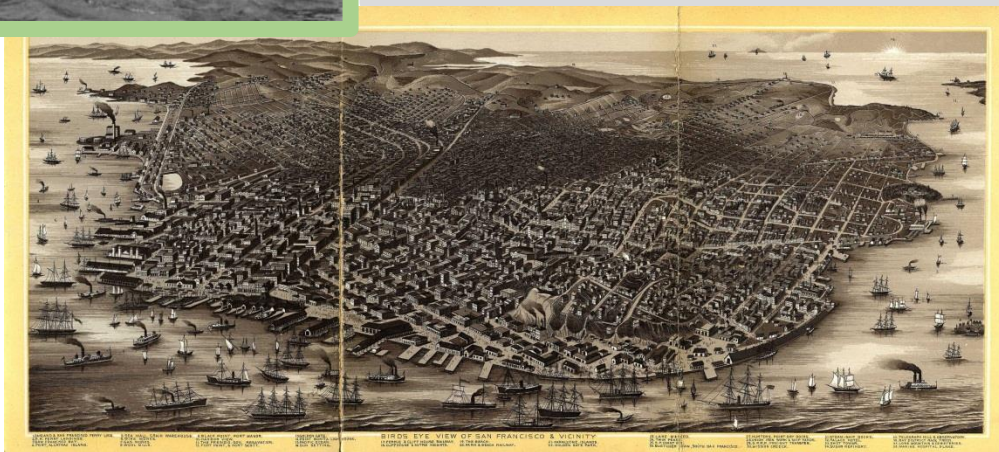


- **PROGRAMS FOR SENIORS AND PEOPLE WITH DISABILITIES-** Enhance transit options to improve mobility for seniors and people with disabilities



# How cities have evolved

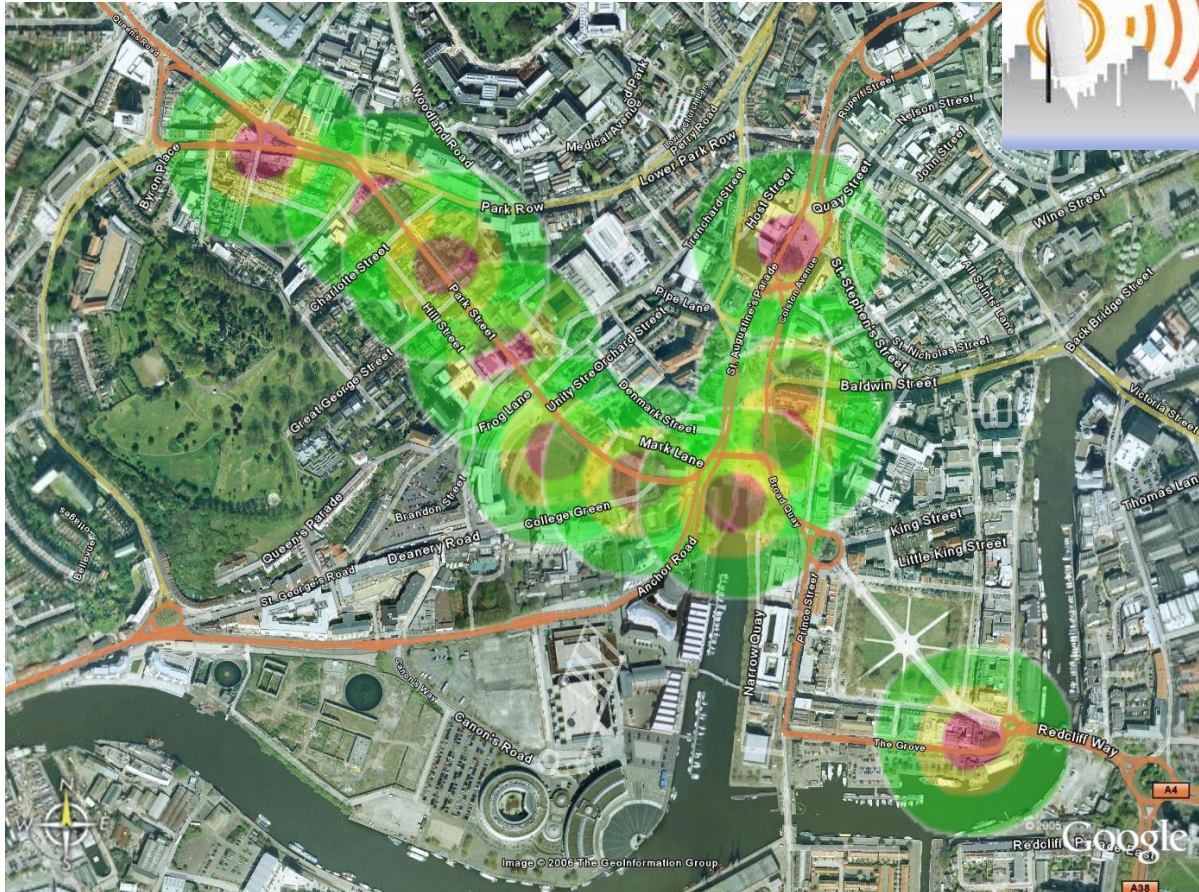






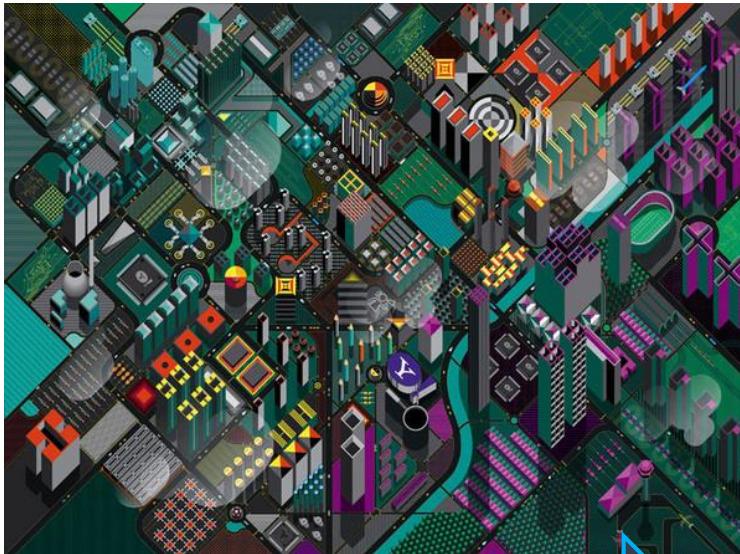






Copyright 2006 The GeoInformation Group





Data Driven Mobility

Sensible & Digital City

Intermodal Innovations





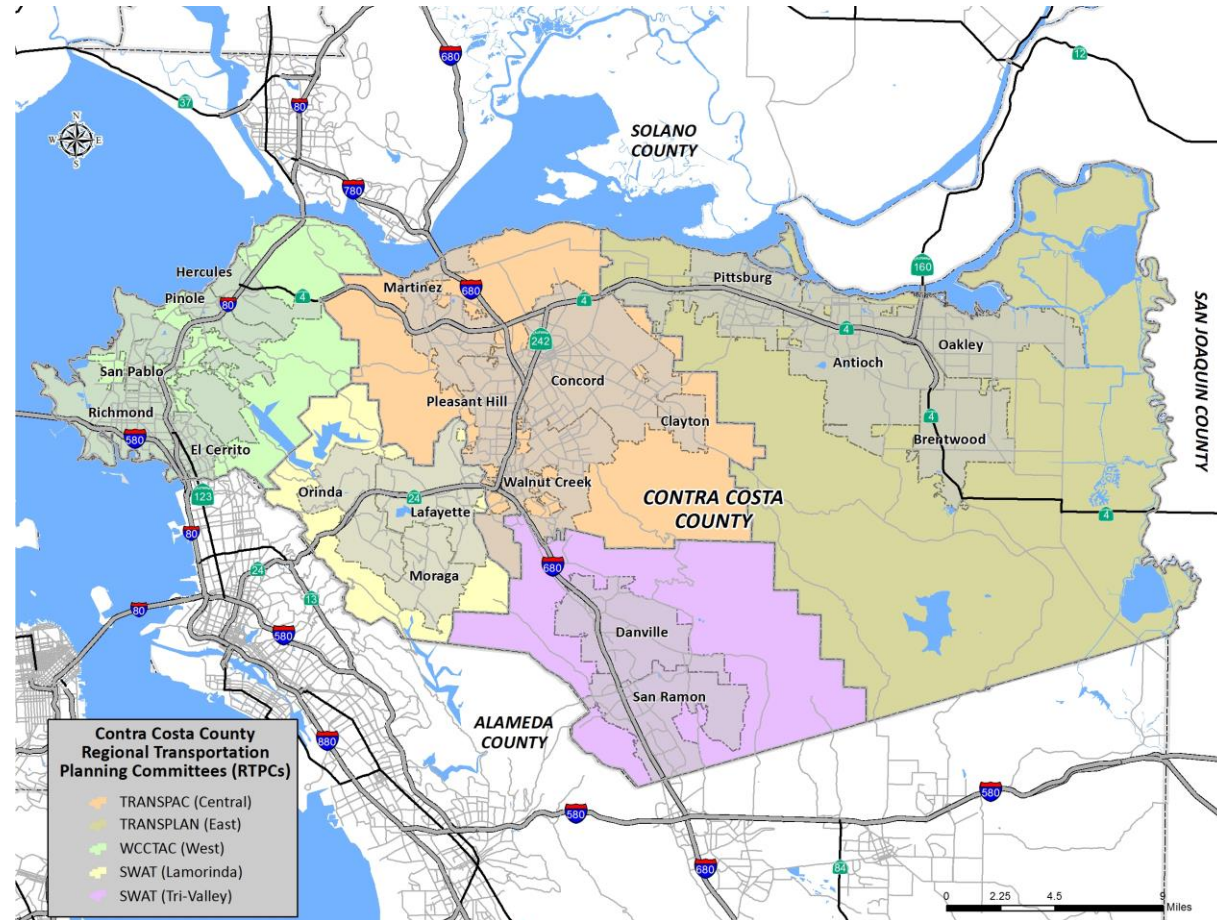


# Transportation Planning



# Regional Transportation Planning Committees

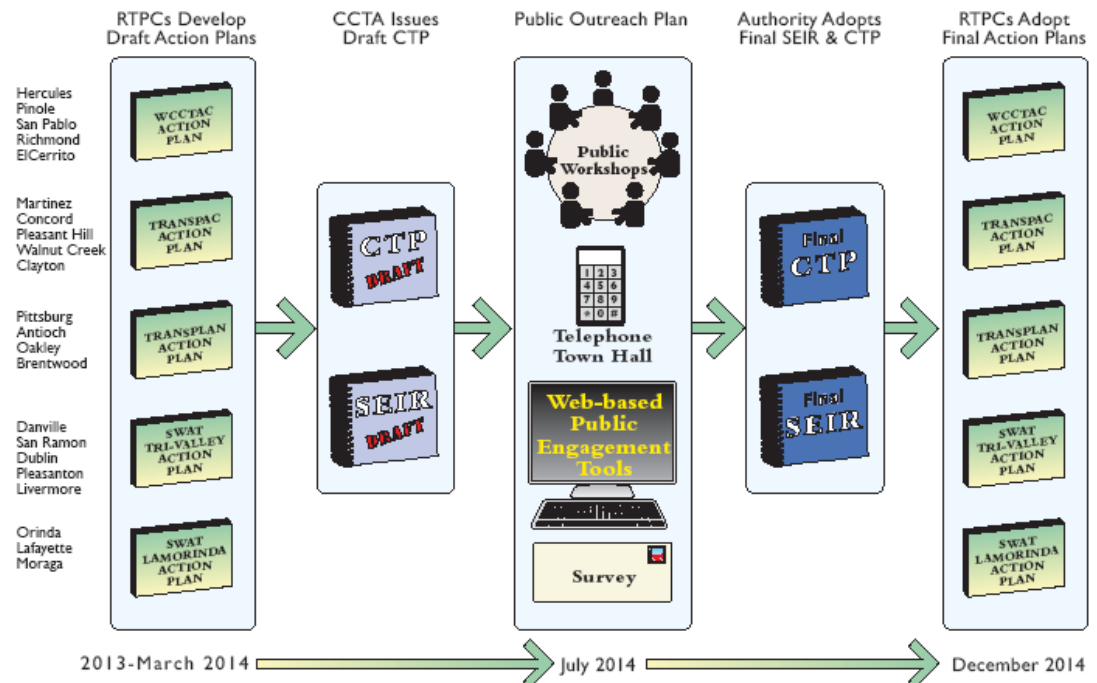
- Four Distinct Sub-regions
- Responsible for prioritizing local projects and programs
- Develop Action Plans for Routes of Regional Significance



# Long Range Planning – The Countywide Transportation Plan

- Updated Every 4-5 Years
- Documents the Authority's Goals, Vision, and Strategies
- Action Plans are Developed by the Regional Committees
- Includes 10- and 20-Year Financially Constrained Project Lists

Figure I-2: CTP Development & Adoption Process





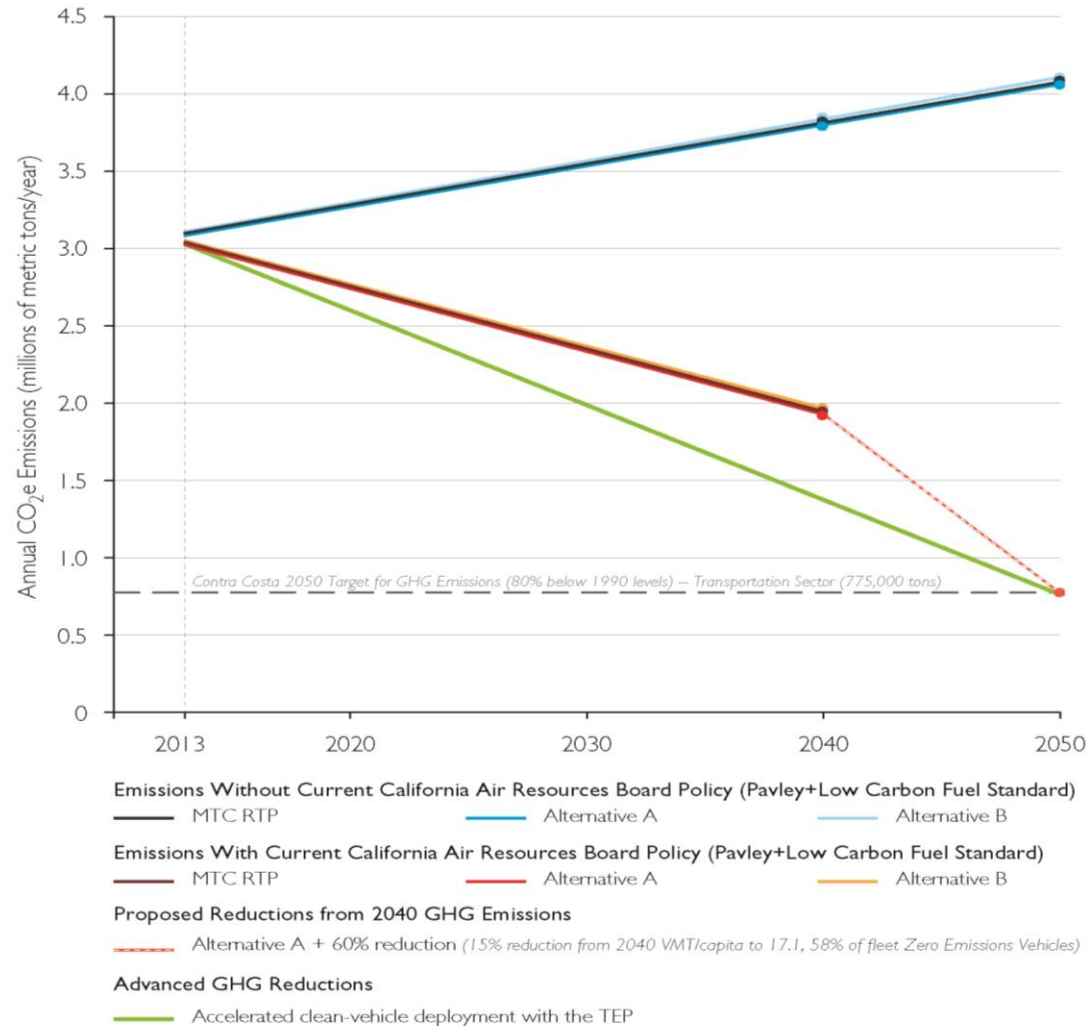
# Travel Demand Forecast Modeling

- Used to determine impacts of land use developments and transportation improvements through year 2040
- Model assumes increased capacity of existing roadways due to automated/connected vehicles
- Accounts for clean vehicle deployment over time
- Model provides future forecasts of GHG emissions, Vehicle Miles Traveled and Vehicle Hours of Delay under various scenarios



# Climate Change and Transportation

- Authority's plans build upon California's strong GHG emission reduction policies
- Includes accelerated clean vehicle deployment and automated vehicle technology



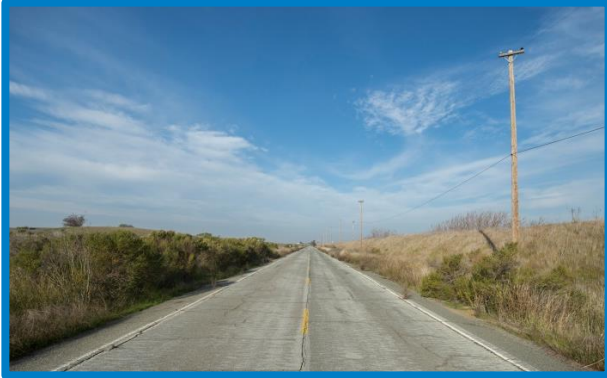
# GoMentum Station Program

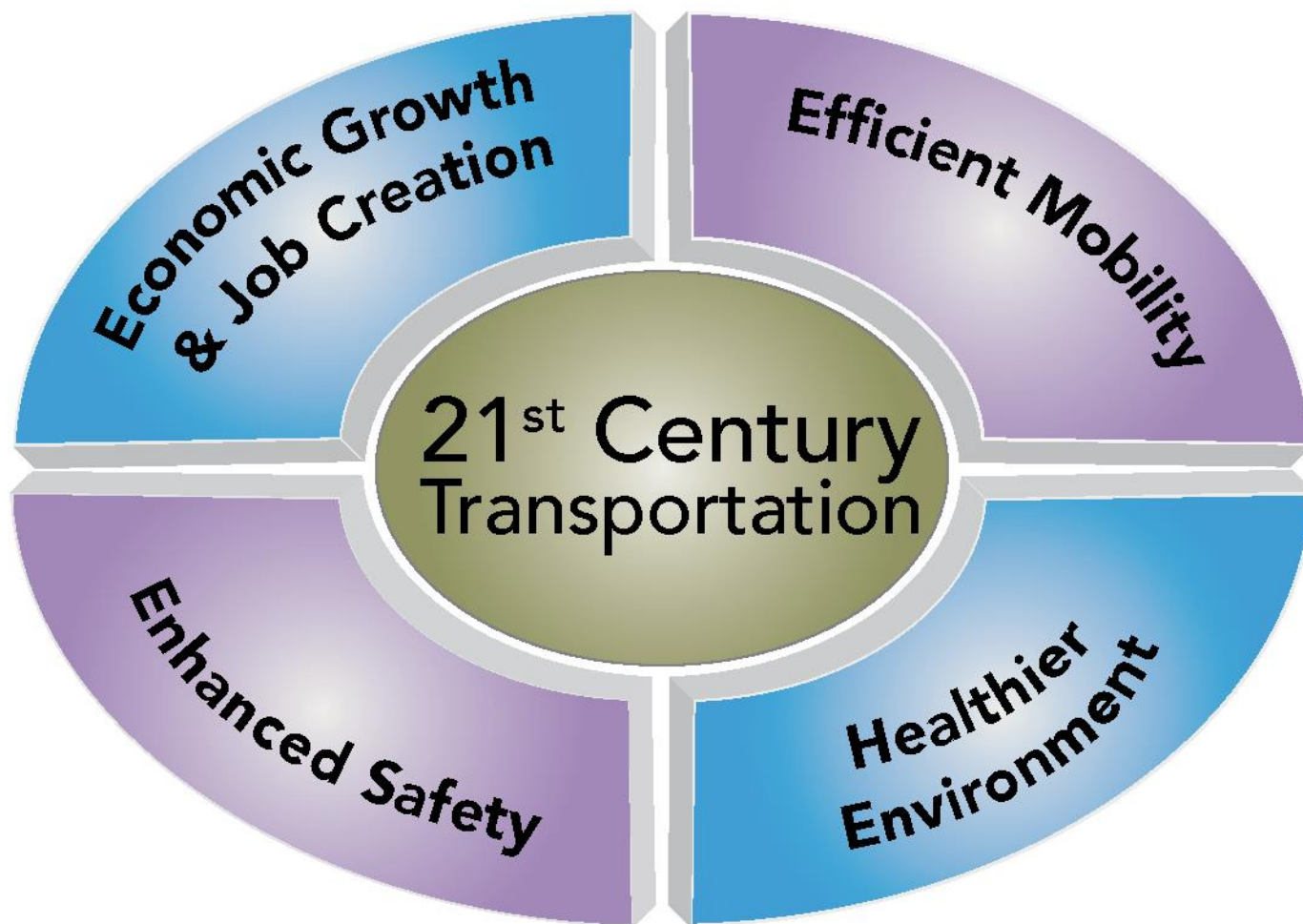
## Connected Vehicle and Autonomous Vehicle (CV/AV) Program and Test Facility





Create a hub for CV/AV transportation innovation in Contra Costa - called the GoMentum Station Program - where technology, innovation and commercialization converge.









# SDV

## Shared Driverless Vehicles



EASY  
MILE

GOMENTUM  
STATION



GoMentum Station and EasyMile announce exclusive agreement to launch Shared Driverless Vehicles in North America

First Deployment after testing at GoMentum Station will be Bishop Ranch



# Impacted Industries





- Insurance
- Auto Repairs
- Professional Drivers
- Hotels
- Airlines
- Auto Parts
- TNCs
- Public Transit
- Parking lots
- Fast Food
- Gas Stations
- Real Estate
- Media
- Auto Industry

<https://www.cbinsights.com/blog/13-industries-disrupted-driverless-cars/>

# How to prepare for the future!



- Education & Outreach
- Planning Process
- Engagement
- Flexibility
- Leverage
- Consistency
- Collaboration
- Partnerships





# Thank you!

Randy Iwasaki

(925) 256-4724

[riwasaki@ccta.net](mailto:riwasaki@ccta.net)

 @riwasaki2

