

Rail Plan Overview

- The Rail Plan establishes a strategic vision for prioritizing state investment in the passenger and freight rail network statewide
- Provides a framework for coordination between planning partners, rail operators, rail owners and the state to develop a rail network with a strategic vision in mind.
- 2018 Rail Plan recognized by Mineta
 Transportation Institute and the Federal
 Railroad Administration as a model for other states to follow



State Rail Plan: 2040 Vision for Passenger Rail

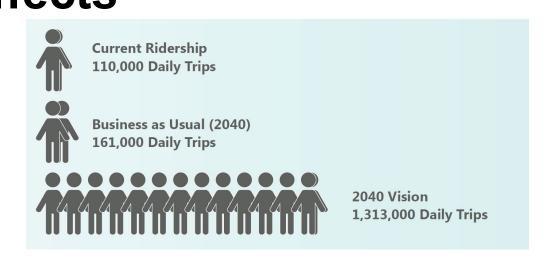
- Integrated Statewide Network
- » High Speed Rail
- Intercity and Regional Services
- Integrated Express Bus
- Coordinated Schedules
- Regular pulsed service
- Key transfer hubs
- Public Transit Connections
- **Customer Focus**
- Seamless First/Last-Mile
- Access
- Integrated Ticketing
- Auto and air competitive
- Over \$30 billion in dedicated and awarded funding so far, mostly from state resources



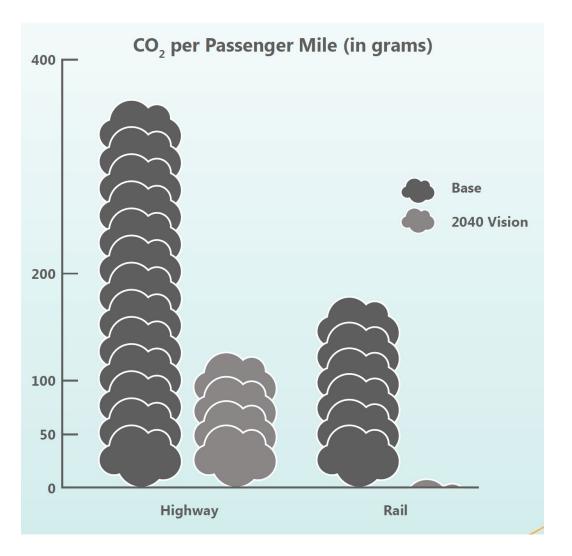
Recap: 2018 SRP – Benefits & Effects







Rail Mode Share Current: 0.34% 2040 No Build: 0.52% 2040 Vision: 6.8%



2022 California State Rail Plan

What's being Updated?



The 2022 California State Rail Plan will **enhance** rail service & serve as a basis for federal and state rail investments in passenger and freight rail projects.

- Revise the statewide vision
 Incorporate outputs from network integration activities and local/regional studies
- Advise priorities for state investment

 Update operating plans and capital investments to deliver phased implementation
- Devise implementation strategies
 Coordinate across funding and operating agencies to structure service implementation



CalSTA Coordination

Regional Partnerships: Addressing Gaps in Service and Access



Network Effects



By analyzing network effects of transit, active transportation, intercity rail, intercity bus and other investments, CalSTA can understand where and how benefits or impacts accrue, beyond where a project is physically located.

Off-Peak Service



Traditional approaches emphasize peak-hour commute trips and leave significant off-peak service gaps. To address equity, we must design, fund, and prioritize robust, all-day competitive service with designed connections between services.

Targeted Fare Discounts



CalSTA and Caltrans are developing Cal-ITP tools that make the administration of means-based and other targeted fares simpler and less costly to implement statewide.



Highlights from the California Integrated Travel Project





What we're doing about it

Making travel simpler and more cost-effective by...

- 1 Enabling contactless payments
- 2 Automating discounts
- Providing accurate and complete information for trip planning in real time

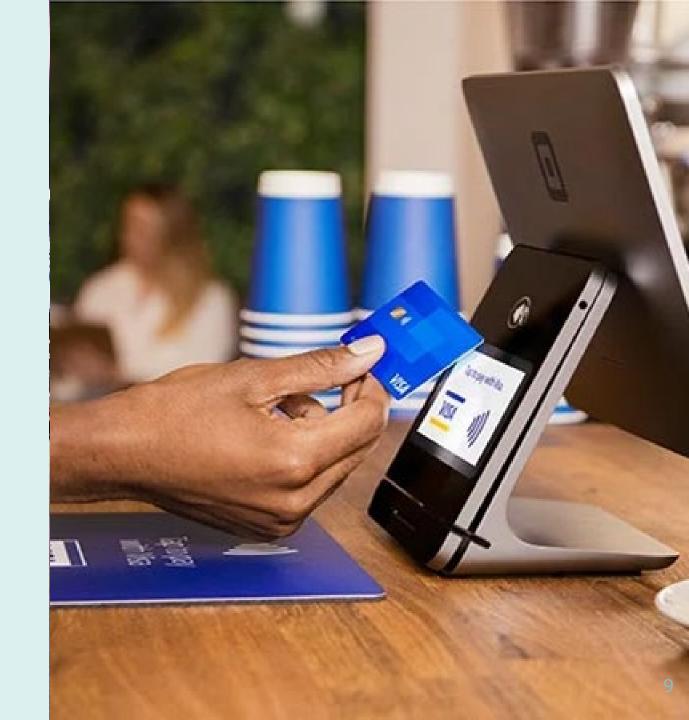




Contactless payments: Vision

From a customer's perspective,
paying for transit should be as
easy as paying for a cup of
coffee: When buying coffee,
customers know they can instantly
pay by tapping their contactless
bank card or smartphone, no
matter which coffee shop they visit.





Advantages of contactless fare collection

Allowing customers to use what's already in their pockets—bank cards or smart devices—to pay for transit creates numerous advantageous outcomes for transit providers and riders, including:



Known customer experience



Higher ridership



Lower costs for both riders and providers



Reduced
emissions through
reduced dwell
times and mode
shift to transit



More equitable access through fare capping and seamless discounts



Automatingdiscounts: Vision

It shouldn't matter where in California a transit rider is--transit systems should honor fare discounts for **all eligible riders**. When a customer taps to pay, the fare validator will charge the right fare every time.





Context

Who gets transit discounts?

Transit providers offer reduced fares to specific rider groups, typically those most transit-dependent and/or high-need, including:

- Older adults
- Veterans
- Students
- Low-income riders
- Riders with disabilities





Cal-ITP Benefits Solution

Automatically enroll and receive discounts

- Easy online enrollment in minutes
- Discount eligibility linked to contactless bank card
- Discounts automatically honored when customers tap to pay
- Standardized, statewide definitions of discount-eligible groups



Receive your senior (65+) discount when you tap to ride!

Link your discount to your contactless card and pay the correct fare every time you tap.





- California driver's license or ID
- · Contactless debit or credit card





Open the camera on your mobile device, and point it at this code to get there quickly!

We hope to add more discount groups soon.

Information and questions:

1-888-MST-BUS1 (678-2871) TDD 831-393-8111 mst.org/benefits customerservice@mst.org

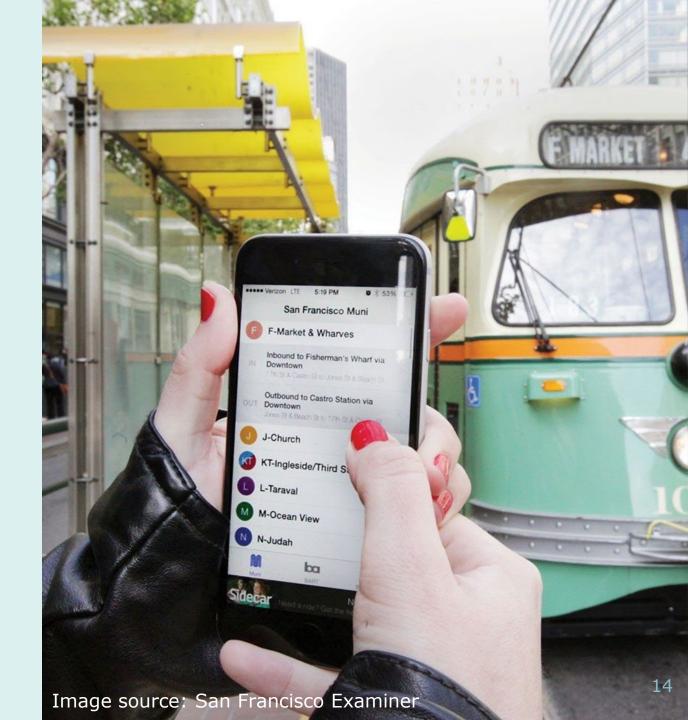




Transit data: Vision

Transit providers in California have the most complete and accurate data of their own operations including information about schedules, fares, payment method, accessibility, and vehicle crowding—which they both **share** with their customers in a standardized format and use themselves to manage their service.





Monterey-Salinas Transit (MST)

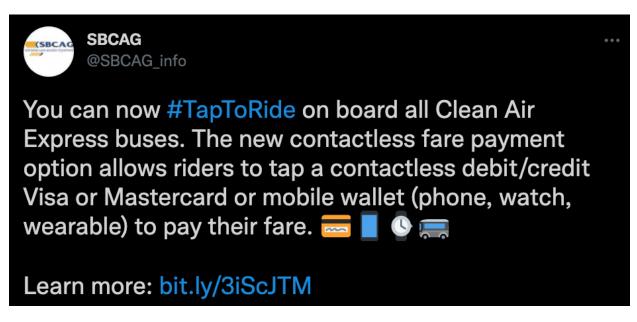
First open-loop contactless fare collection demo in California

- Lets riders tap contactless bank cards (Visa or Mastercard credit/debit) & mobile to pay
- Older adults will receive transit discount when they tap to pay
- Complete GTFS data feeds accessible through trip planning apps & maps



Santa Barbara Bus Services

Contactless fare collection on the Clean Air Express and Santa Barbara Metropolitan Transit District buses on 7/26.



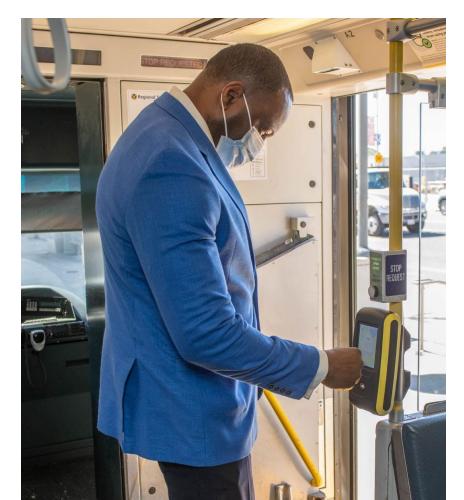




Sacramento Regional Transit (SacRT)

Contactless fare collection launched on Sacramento light rail fleet 9/1







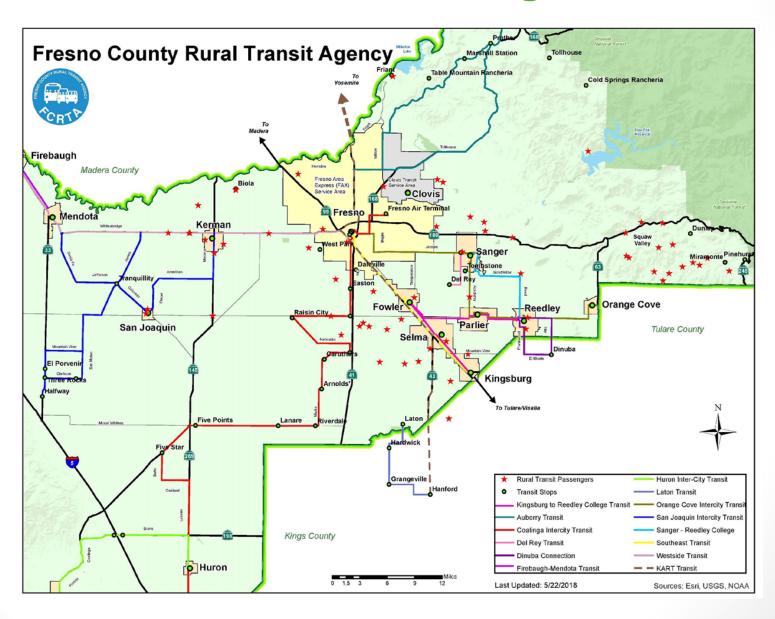
San Joaquin Valley Policy Conference The Road Ahead

May 12, 2022
Passenger Rail, Transit, HSR
and Innovative Mobility

Fresno County Rural Transit Agency



FCRTA Service Area & Rural Transit Passengers



History of EV Transition in Rural Areas

- 2016- FCRTA received its first EV Vans (1st generation & 2nd generation).
- 2017- FCRTA installed its first 13 Solar Arc Level 2 Charging Units in the 13 incorporated cities in rural Fresno County.
- 2018-Present: FCRTA continues to purchase electric buses and electric sedans, charging units with local, state and federal funding such as LCTOP and Measure C New Tech.
- Deploying BEV's in rural areas is difficult to due the range and infrastructure for charging.
- FCRTA purchased various buses and chargers to determine which one will work best for rural routes and charging based on range, weight and length.

FCRTA's Current Fleet

- Vehicle fleet of one hundred and twenty-two (122) vehicles
- Forty-four (44) are powered by CNG
- Twenty-three (33) are powered by electric batteries
- FCRTA does <u>not</u> operate any diesel powered vehicles
- Goal of 2030 to have 100% EV fleet



BYD Chevy Bolt Zenith Proterra

FCRTA's Current Charging Infrastructure

- 24 Envision Solar Arc's (Level 2)
- 4 BYD Chargers (Level 2)
- 8 Proterra Chargers (Level 3)
- 25 JuiceBox Chargers (Level 2)
- 2 Envision Solar Trees (Level 3)



JuiceBox Charger for Bolt/Zenith



Proterra Charger



Solar Tree

BYD Charger



Solar Arc

FCRTA Solar EV Arc Charging Stations



Past & Current Projects:

- Fresno EV Microtransit Plan was completed in January 2021 and funded by the FCOG Sustainable Infrastructure Planning Grant (\$160,556).
- Electrical Grid Analysis Study for the incorporated and unincorporated communities was completed January 2022 and funded by the Caltrans Sustainable Communities Planning Grant (\$515,800).
- Transportation Needs Analysis Survey to analyze transportation needs in the unincorporated community of Biola (\$36,885).
- Transit Bus Air Flow Study in partnership with the Fresno State
 Transportation Institute to study the COVID virus and air flow through a transit bus (study concluded 2020).
- Microtransit study to examine the expansion of existing FCRTA microtransit service in unincorporated communities of Lanare, Cantua Creek, Laton, Riverdale and El Porvenir, this project is in partnership with Leadership Counsel for outreach efforts (\$59,000).
- Microtransit pilot project in West Park and Biola.
- Microgrid/Resilience hub feasibility analysis to analyze costs and locations for solar microgrids in rural Fresno County (\$455,500).
- Measure C New Technology Grant Projects- Electric Buses (6), Solar Trees (2), Electric Sedans (15), Level 2 Chargers (40), UV Sterilization Lights (50).

Awarded and Proposed Project with Purpose and Value:

- Affordable housing project through the Affordable Housing and Sustainable Communities (AHSC) program in partnership with City of Coalinga, project includes housing, 2 electric buses, transit amenities and passes.
- Affordable housing project through the Affordable Housing and Sustainable Communities (AHSC) program in partnership with City of Sanger, project includes housing, solar parking, electric bus and charging station.
- Light-rail feasibility study along SR99 corridor with funding from the Caltrans Sustainable Communities Planning Grant.
- FCRTA applied for a TIRCP Grant to deploy a microgrid solar charging station near the HSR station in downtown Fresno.
- FCRTA applied for a Fresno County regional air mobility pilot project to explore the use of an air taxi service in rural Fresno County.
- FCRTA will be deploying a microtransit pilot project in the unincorporated communities following the RTAP study.
- These projects are consistent with the 2018 Fresno COG RTP, CTP 2040 and GHG reduction targets.

Challenges Going Forward



- Rural locations are challenging for transit due to miles, time and efficiency.
- Traditional transit is being affected by a decline in ridership and transit agencies must explore innovative alternative mobility options.
- Infrastructure must be in place to deploy EV's.
- Fresno County is a nonattainment air basin.
- Must address VMT which is challenging in rural communities.

In Coordination & Collaboration With:



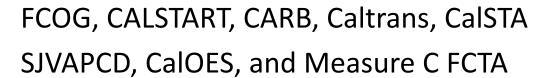




KART, Tulare County Rural Transit Agency, FAX and Clovis Transit



In collaboration with:





















Thank you



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ZERO Emissions

SAN JOAQUIN VALLEY POLICY CONFERENCE

Garth Fernandez, Central Valley Regional Director California High-Speed Rail Authority

May 12, 2022



MISSION CALIFORNIA HIGH-SPEED RAIL

To initiate the construction of a high-speed train system that utilizes an alignment and technology capable of sustained speeds of 200 miles an hour or greater.

Three principles guide our decisions:

- 1. Initiate high-speed rail service in California as soon as possible.
- 2. Make strategic, concurrent investments that will be linked over time and provide mobility, economic and environmental benefits at the earliest possible time.
- 3. Position ourselves to construct additional segments as funding becomes available.





CONNECTING CALIFORNIA CALIFORNIA HIGH-SPEED RAIL



Increase Mobility



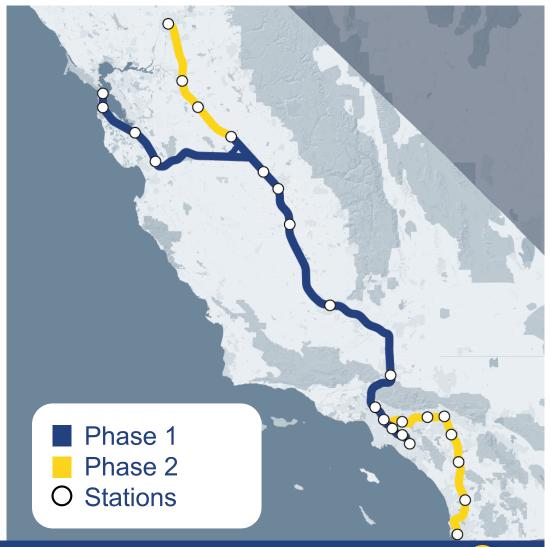
Needed Alternative



Better Air Quality



Job Growth





PROGRAM UPDATE

PROGRESS UNDERWAY

Today:

- Setween SF and LA
 - » Nearly 380 miles environmentally cleared
- >> 119 miles under design and construction
- Commitment to complete the Merced to Bakersfield initial operating segment
- Caltrain electrification construction underway
- » LA Union Station improvements
- Station planning
- » MOU with Brightline





PROGRESS IN THE CENTRAL VALLEY

Central Valley Construction

- » Since 2018, design advanced from 30% to nearly 100%
- » Working to get design changes that address third-party concerns into contracts
- » 71% of structures in construction or completed (66 out of 93)
- » 72% of the miles of guideway completed or in progress (86 out of 119 miles)
- » Nearly 8,000 construction jobs created
- » 698 Small Businesses Engaged

Central Valley Right-of-Way

» More than 2,305 parcels delivered to contractors – 90% of the total needed





CONSTRUCTION IN THE CENTRAL VALLEY

CONSTRUCTION PACKAGE 1



- Construction package 1 (CP 1) is the first construction contract executed on the initial operating section
- Extends 32-miles between Avenue 19 in Madera County to East American Avenue in Fresno County
- Includes 22 grade separations, 3 viaducts, a major river crossing over the San Joaquin River and 2 trenches.



CONSTRUCTION IN THE CENTRAL VALLEY

CONSTRUCTION PACKAGE 2-3

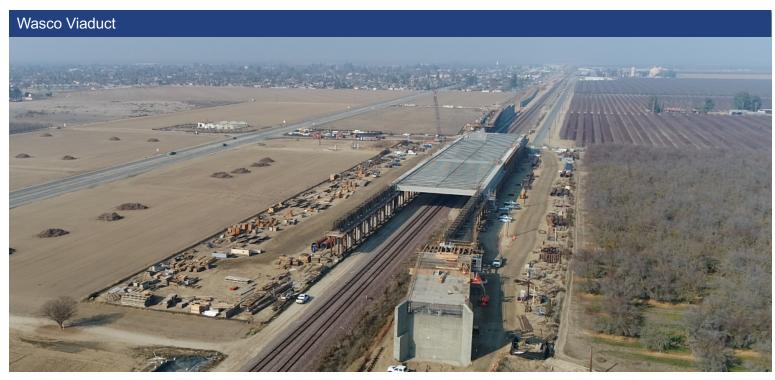


- Construction Package 2-3 (CP 2-3) is the second significant construction contract executed on the Initial Operating Section
- Extends approximately 65 miles from the terminus of Construction Package 1 at East American Avenue in Fresno to one mile north of the Tulare-Kern County line
- Includes approximately 36 grade separations in the counties of Fresno, Tulare and Kings, including viaducts, underpasses and overpasses



CONSTRUCTION IN THE CENTRAL VALLEY

CONSTRUCTION PACKAGE 4



- Construction Package 4 (CP 4) is the third significant construction contract executed on the Initial Operating Section
- 22-mile stretch bounded by a point approximately one mile north of the Tulare/Kern County Line at the terminus of Construction Package 2-3 and Poplar Avenue to the south
- Will include construction of at-grade, retained fill and aerial sections of the high-speed rail alignment.



CENTRAL VALLEY STATIONS

Downtown Fresno Station





CENTRAL VALLEY STATIONS

Downtown Fresno Station





EXPLORING BUILDHSR.COM

HIGHLIGHTING PROGRESS IN THE CENTRAL VALLEY





QUESTIONS?





Headquarters

California High-Speed Rail Authority 770 L Street, Suite 800 Sacramento, CA 95814 www.hsr.ca.gov









Central Valley Regional Office 1111 H Street Fresno, CA 93721



Valley Rail Expansion Program Update

SJV Policy Conference: May 12, 2022



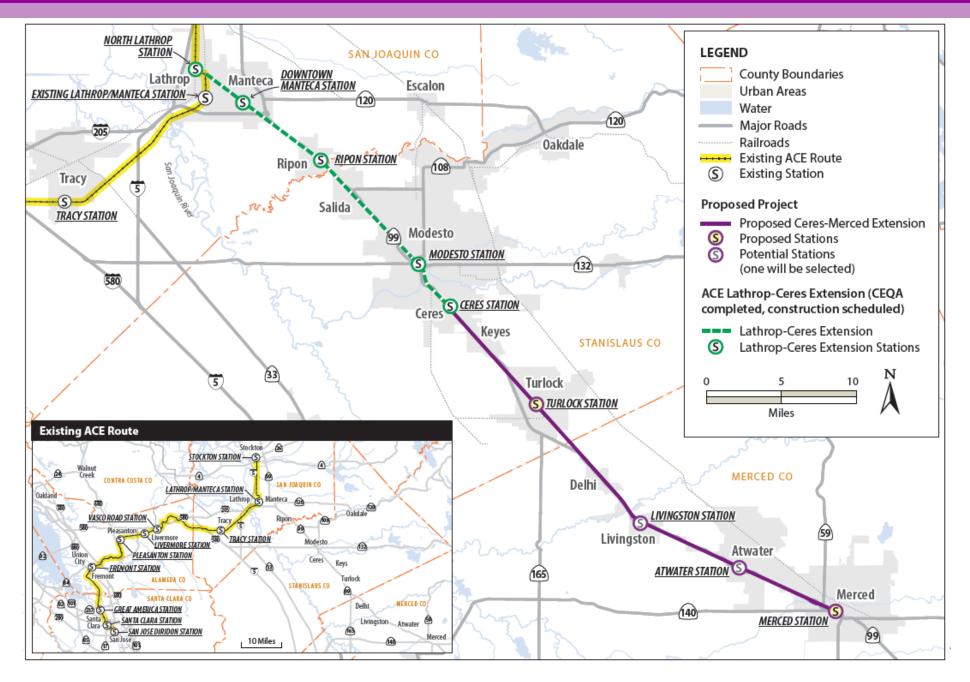


- Valley Rail Program includes expansion of both ACE and the San Joaquins Services
- Valley Rail has received about \$1.3 billion in state and other funding sources
- First round-trip to/from Ceres and Natomas by 2024

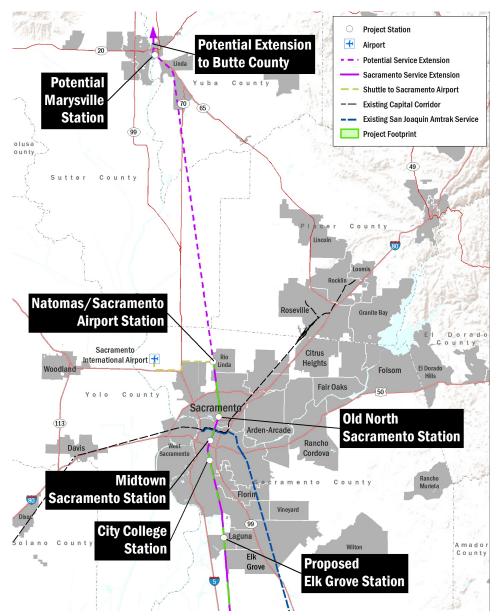




Project Overview: Project Location



Overview of the Sacramento Extension



- Service to Sacramento
 Valley Station via current
 route is capped by UPRR
- UPRR Sacramento
 Subdivision will support
 additional San Joaquins
 service and new ACE
 service.
- Working with Butte CAG and SACOG to plan for further extension north to Yuba City/Marysville and Butte County

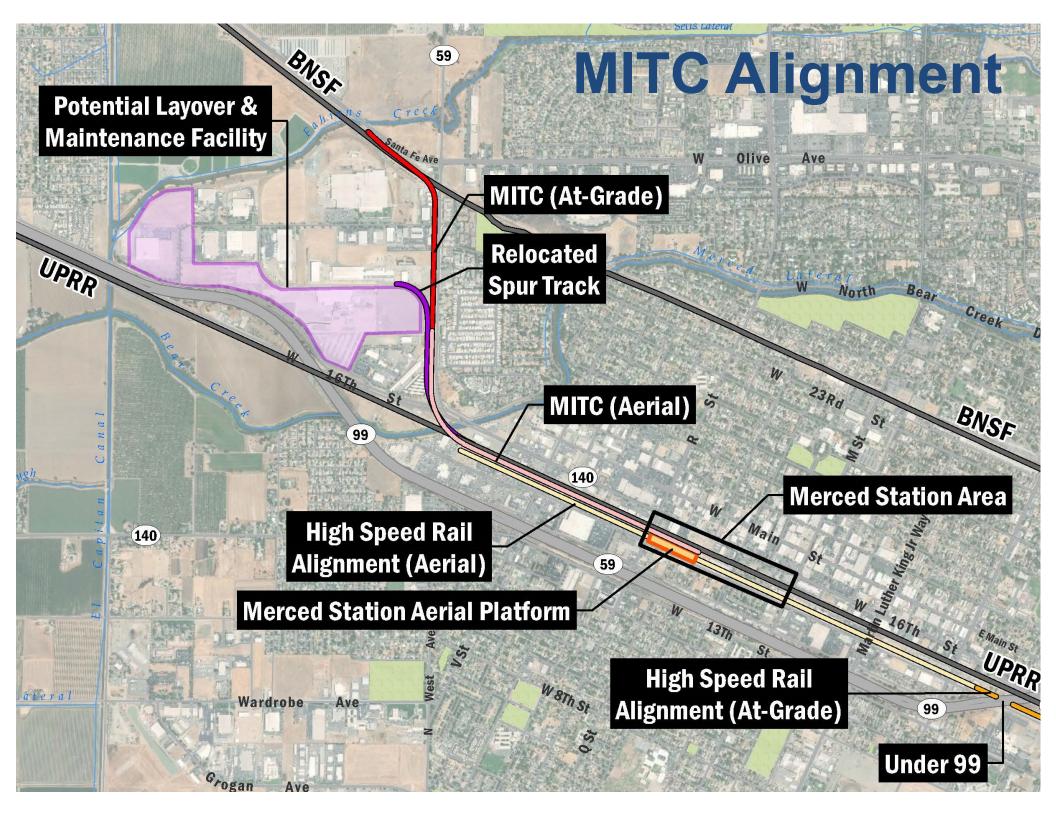
















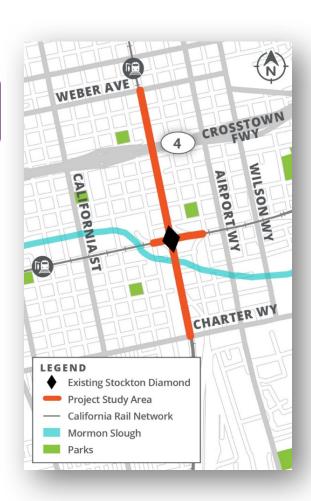
Stockton Diamond Grade Separation





Busiest, most congested at-grade rail crossing in CA

- Causes significant congestion and delays to service
- Impacts frequency, reliability and potential expansion
- Causes local crossing delays

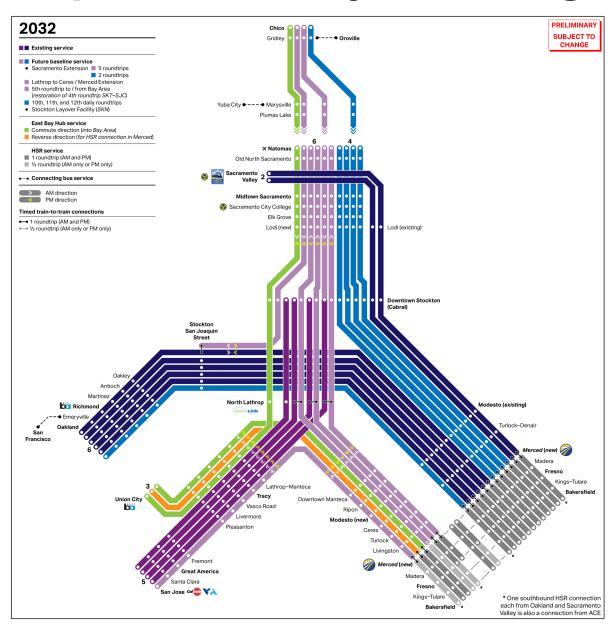


Flyover Concept Rendering



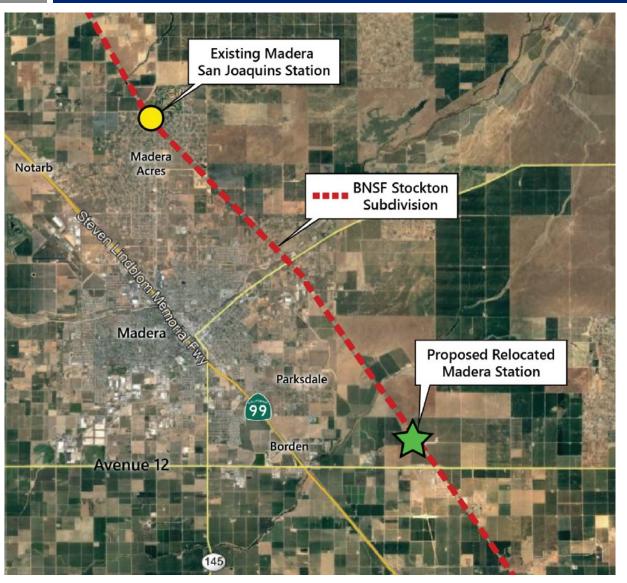


Expanded Valley Rail Program





Madera Station Relocation Project

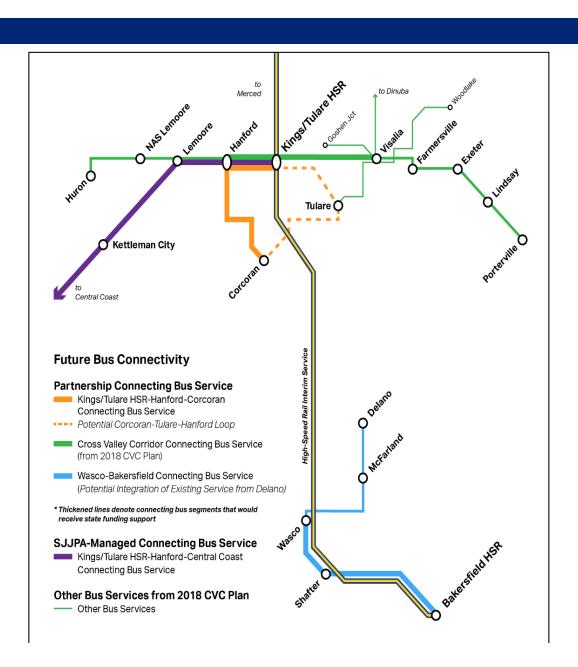


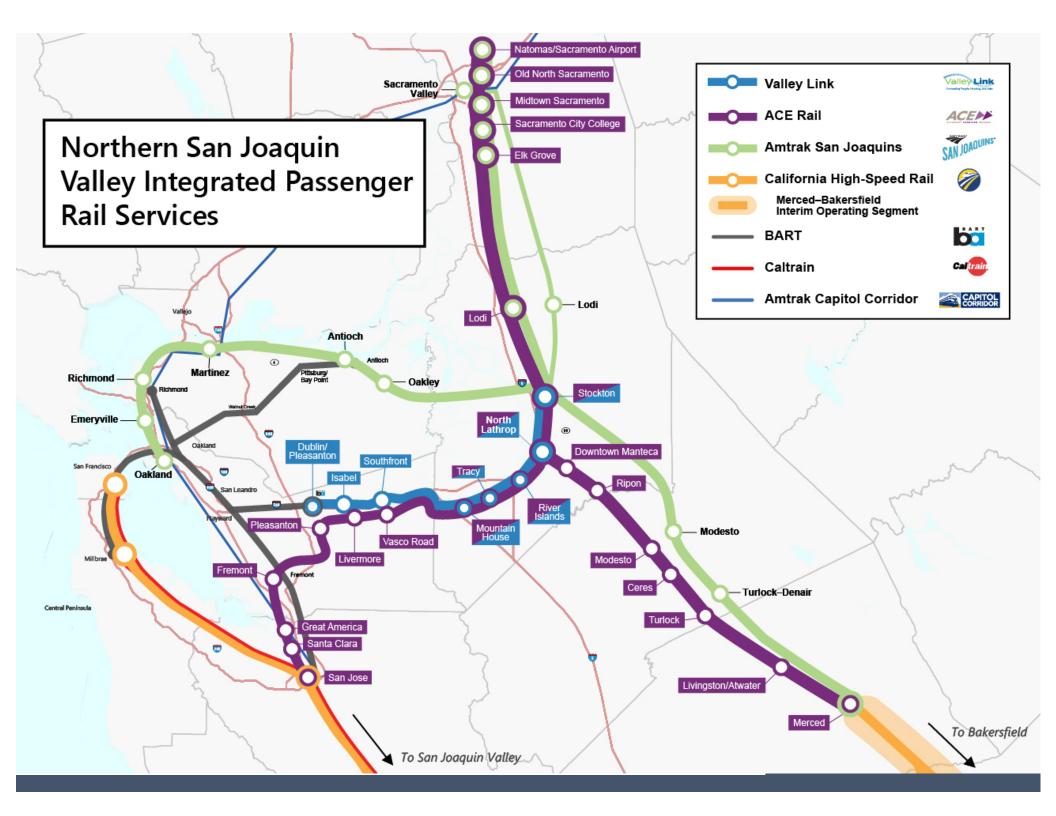
- Existing Madera San Joaquins Station located in vicinity of Madera Acres
- Relocated Station to be located just north of Avenue 12 along the existing BNSF tracks



San Joaquin Joint Powers Authority

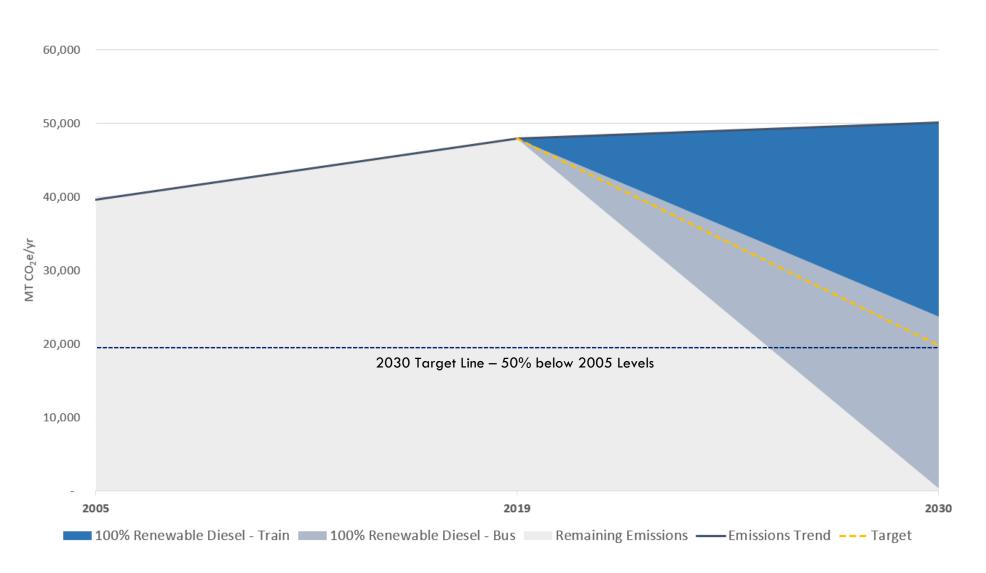
Potential
Regional Bus
Network in the
San Joaquin
Valley (South of
Merced)







2030 Target Achievement Pathway



Valley Rail Program Innovations:

- Network Integration with HSR & Service Expansion
- Consolidated Management
- Stockton Diamond Grade Separation Project
- Climate Action Plans
- Zero Emission Vehicles & Solar at Stations
- Enhanced Connectivity to Public Transportation and Sustainable, Transit-Oriented Development





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