Transit in California

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Today's Presentation

- About Caltrans
 - Caltrans and its Division of Rail and Mass Transit
- Challenges & Programs
 - Climate Action and Social Equity
 - California Transit Programs and Incentives
- The future of transit in California
 - Vision: California's State Rail Plan
 - The California Integrated Travel Program
 - 2022 State Rail Plan Update



CA Transit – By the Numbers

- How many transit rides are there every year in California?
- How many miles of revenue service do buses drive per year in California?
- How many transit employees are there in California?
- How many public transit agencies operate in California?

California Department of Transportation

 California's second largest state agencies with 20,000+ employees

Multimodal transportation agency

• 12 districts (see map next slide)

 Leadership by Division of Rail and Mass Transportation



Organized by districts

Caltrans Near Me

- District-1 Eureka
- District-2 Redding
- District-3 Marysville / Sacramento
- District-4 Bay Area / Oakland
- District-5 San Luis Obispo / Santa Barbara
- District-6 Fresno / Bakersfield
- District-7 Los Angeles
- District-8 San Bernardino / Riverside
- District-9 Bishop
- District-10 Stockton
- District-11 San Diego
- District-12 Orange County



Partnerships

Caltrans Division of Rail & Mass Transportation

Federal Partners

 Federal Transit Administration (FTA) & Federal Railroad Administration (FRA)

State Agencies

 California High Speed Rail Authority (CHSR), California Air Resources Board (CARB), California State Transportation Agency (CalSTA)

Regional and Local Agencies

Metropolitan Planning Organizations, Commuter Rail Agencies,
 Joint Power Authorities, Transit Agencies, Cities and Counties

Private Industry

• BNSF, Union Pacific, Shortline Railroads, Amtrak (semi-private)

Funding Overview

Caltrans Division of Rail & Mass Transportation

Federal Funding

 Federal Transit Administration (FTA) Funds and Federal Railroad Administration (FRA) Grants

State Funding

- Climate Investment (Cap & Trade) Funds
 - Transit & Intercity Rail Capital Program
 - Low Carbon Transit Operations Program
- Public Transportation Account
 - Intercity Passenger Rail operations
- State Transit Assistance derived from the sales tax on Diesel Gas and vehicle registrations
- State Rail Assistance
- STIP (Intercity Rail Share of ITIP)



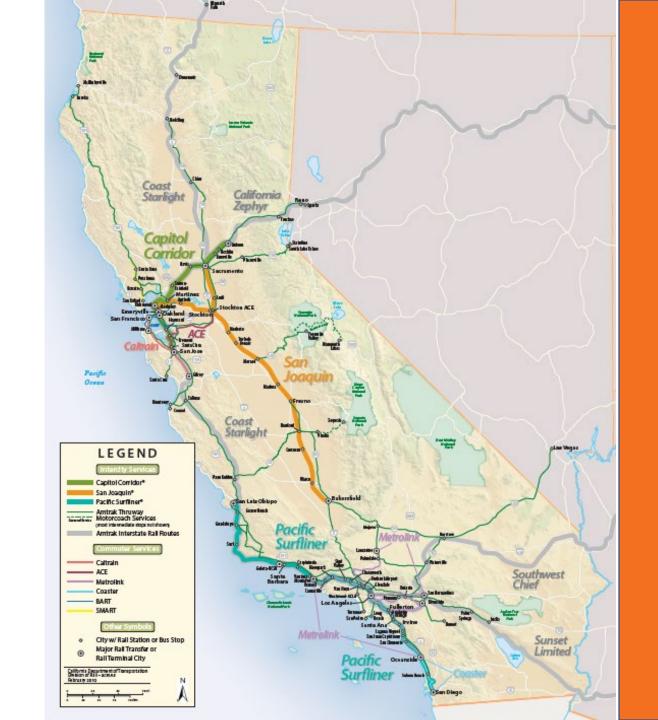




Intercity & regional system

Existing Conditions

- 3 Intercity Passenger Rail Systems
 - Feeder bus services
- 5 Commuter Rail Systems
- 4 Long-Distance Routes
- Numerous transit and rail systems at the local level to support this travel





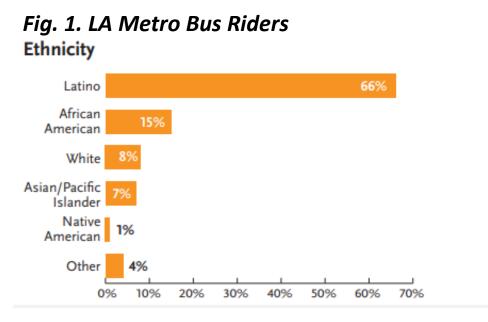
The transit demographic divide

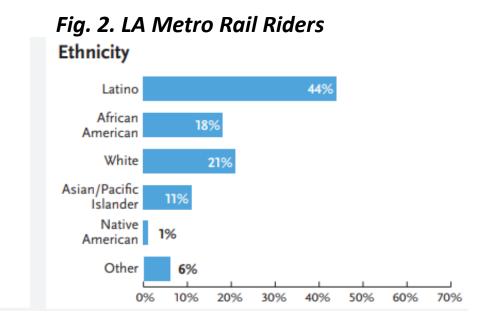
Challenges



LA Metro ridership demographics example where the majority of....

- ...Surveyed bus riders live below the poverty line
- ...Transit riders self-identify as not white,
- Lack access to a personal vehicle, and
- Lack access to high-speed internet or a smartphone data plan





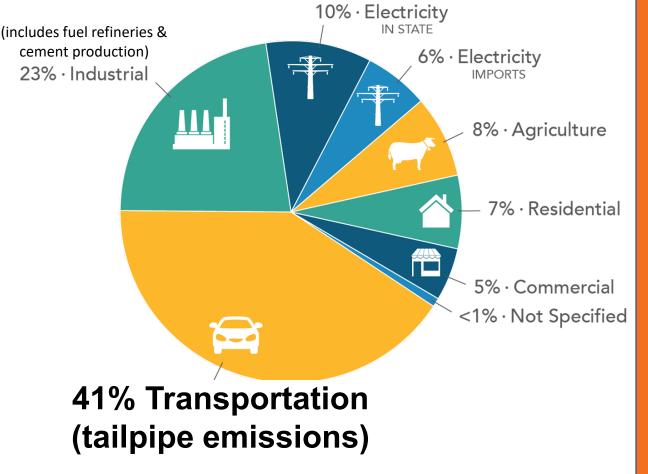
Source: LA Metro, "On-Board Survey Results and Trend Report Fall '19."



California's greenhouse gas emissions (GHGe)

Challenges

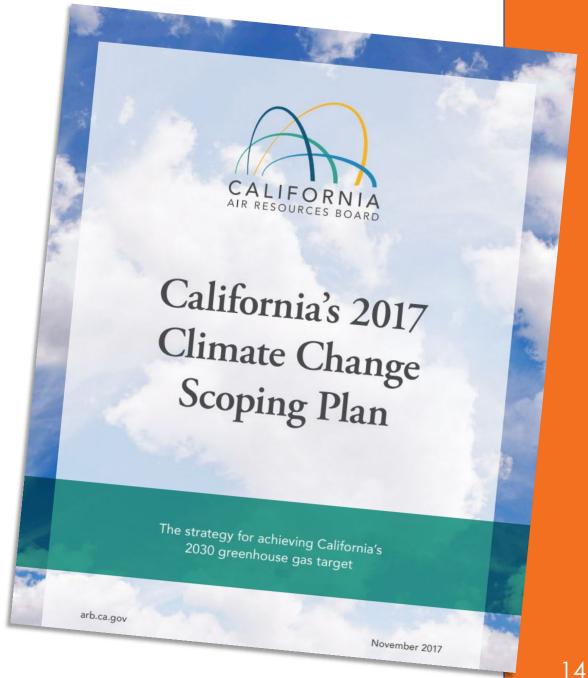
Transportation emissions from the transportation and industrial sectors together account for half of statewide emissions of harmful greenhouse gases



Reducing emissions Challenges

Under State's 2017 "Scoping Plan," transit plays a role among the three main GHGe reduction strategies:

- Increasing zero emission vehicles
- Converting to cleaner fuels in conventional vehicles
- **Reducing Vehicle Miles Traveled** (vehicle use)



State fuel tax supports transit

Funding Source

In 2017, California voters approved an increase to the fuel tax to provide funding for transportation, including an additional \$750 million in **public transit** funding each year to California



Cap-and-trade

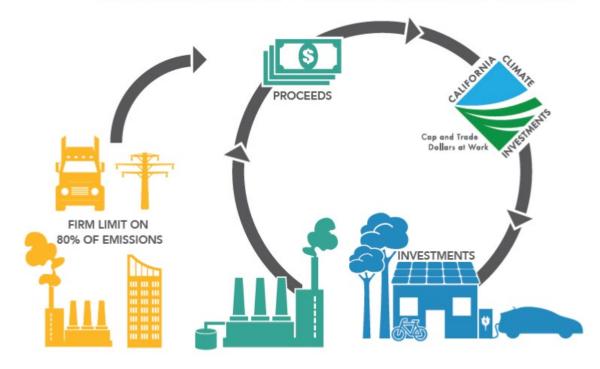
Funding Source

Funds the California Climate Investment (CCI) programs:

- Transit and Intercity Rail Program
- Low Carbon Transit
 Program

(and a lot of funding for our High Speed Rail Project)

CALIFORNIA'S CARBON PRICING & INVESTMENTS OVERVIEW



Source: CARB, 2018

Transit & Intercity Rail Capital Program (TIRCP)

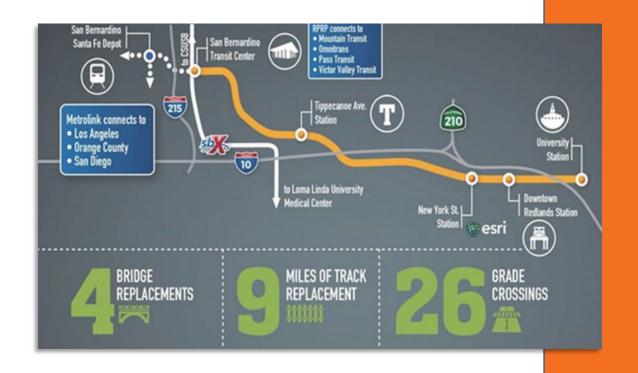
Transit Program

- Competitive grant for transformative CAPITAL investment
- Projects must reduce GHGe; and
- 35% of projects awarded must benefit disadvantaged and low-income communities
 - 25% to disadvantage communities
 - 10% to low income communities and low income households within ½ mile of a disadvantaged community

The Zero Emission Multiple Unit (ZEMU)



- Recipient: San Bernardino
 County Transportation Authority
- Funding for R&D and its supporting infrastructure
- It is a hybrid battery-hydrogen fuel cell system



Low Carbon Transit Program (LCTOP)

Transit Program

- Formula based non-competitive program, provides OPERATING and CAPITAL assistance to transit agencies
- Projects must reduce GHGe; and
- LCTOP has an emphasis of providing direct and meaningful benefit within Disadvantaged Communities (DAC)



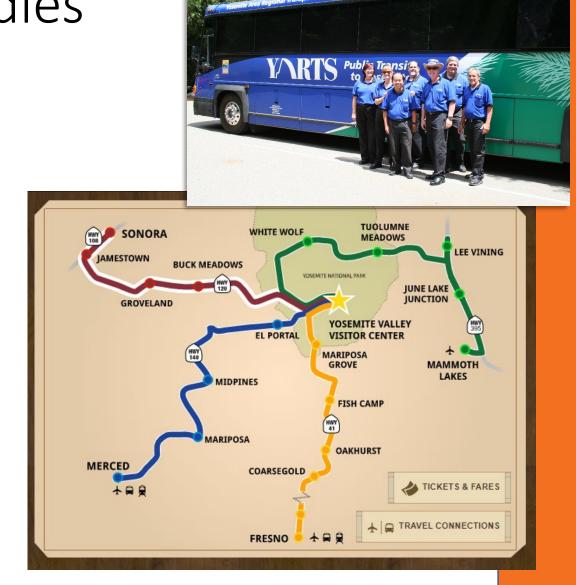


Pictured: a transit engagement event funded in part by LCTOP

YARTS operations subsidies

LCTOP-awarded Project

- Rural transit example
- Provides operational funding
 - Offered low-income City of Merced residents reduced fares to Yosemite National Park; and,
 - Free transit service for lowincome residents of Mariposa County



Incentives for transit decarbonization

California Air Resources Board

- The Lower-Emission School Bus Program
- The Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project





Pictured: a ZEV bus from Northern California



Mission and Vision

Caltrans Division of Rail and Mass Transportation

Draft Vision:

California provides mobility for all as the leader in world-class public transportation.

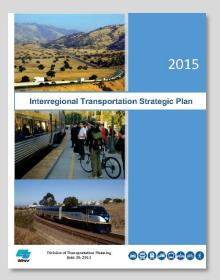
• Draft Mission:

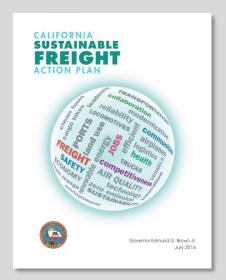
Improve public transportation by integrating and investing in an equitable, efficient, and accessible network.

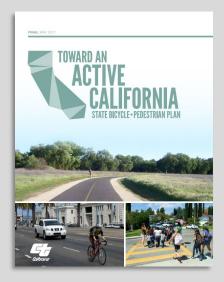
Transportation planning at Caltrans

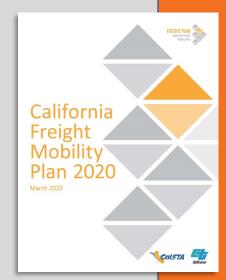












State Rail Plan 2018

Caltrans Division of Rail and Mass Transportation

- Statewide Rail Network "Vision"
 - Passenger & Freight Rail Investments
- Rail Investment Program
 - Short-term (2022), Mid-Term (2027) & Vision (2040)



Vision for passenger rail

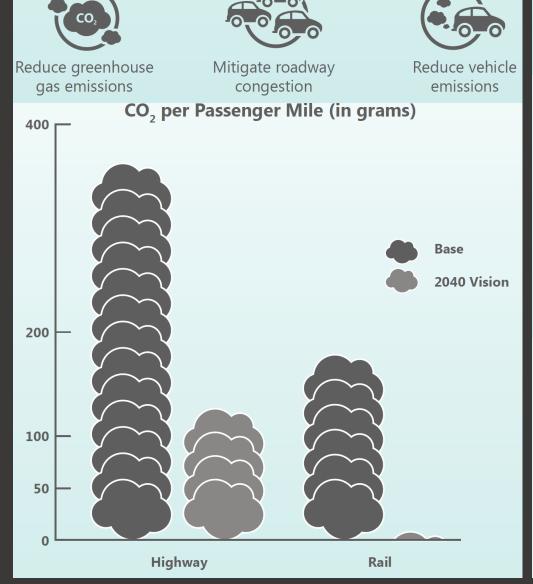
California State Rail Plan

Integrated Statewide
 Network

- Coordinated Schedules
- Customer Focus



Rail Plan Outcomes





Offer a convenient and reliable alternative



Increase electric and zero emission trains



Provide alternative to truck transport of containerized cargo

Rail Mode Share

Current: 0.34%



2040 No Build: 0.52%



2040 Vision: 6.8%





Current Ridership 110,000 Daily Trips



Business as Usual (2040) 161,000 Daily Trips



2040 Vision 1,313,000 Daily Trips

California Integrated Travel Program (Cal-ITP)

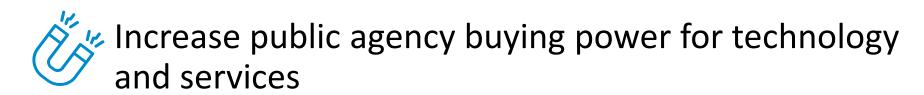
Goals and benefits



Improve the transit experience in California

Promote equity 4





Realize benefits for transit services





Meet California climate change law

In the COVID era..... Cal-ITP has a solution

- A universal statewide transit benefit program
- Data, payment and tech services that solve the challenges of taking transit
- Support integration with Google and Apple maps to communicate with a passenger before they get on a bus or train



Where are the gaps?

- Trip Planning: Lack of reliable passenger information
- Payment: Unnecessary barriers for payment

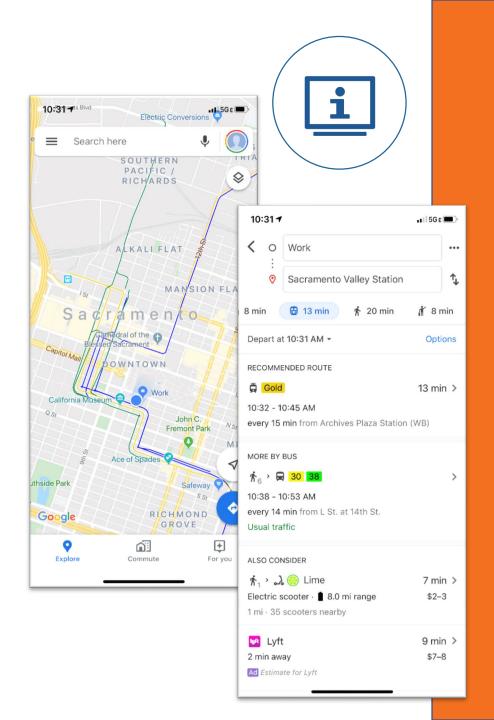
Equity: Cumbersome process to access discounts



Trip planning

Ensure access to reliable data:

- Transit schedules, routes, stations and stops
- Trip costs for every route, starting with the standard/base fare
- Real-time vehicle location and arrival information, and any deviations from schedule

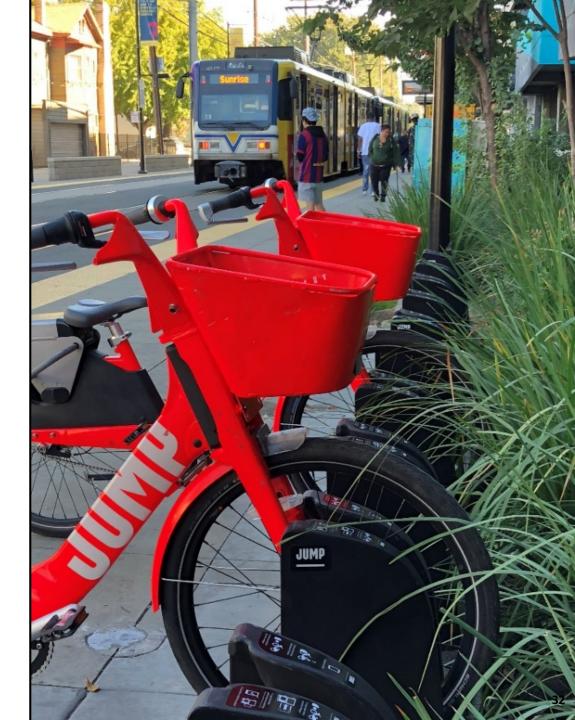


Payment Cal-ITP

 Introduce contactless payment

Reduce the cost of digital payments





Promoting social equity

Cal-ITP



The implementation of a digitized eligibility verification program.

Outcomes include:

Passenger

Ability to:

- Use ID or Driver's License as proof of eligibility
- Sign on to DMV account via agency website to prove eligibility for card or discount

Transit Agency

- One standardized method to verify / establish eligibility
- Outsource verification to DMV (cost reduction)

2022 State Rail Plan Update

Updating the Rail
Plan at this key time
to best tackle
existential issues of
transit



