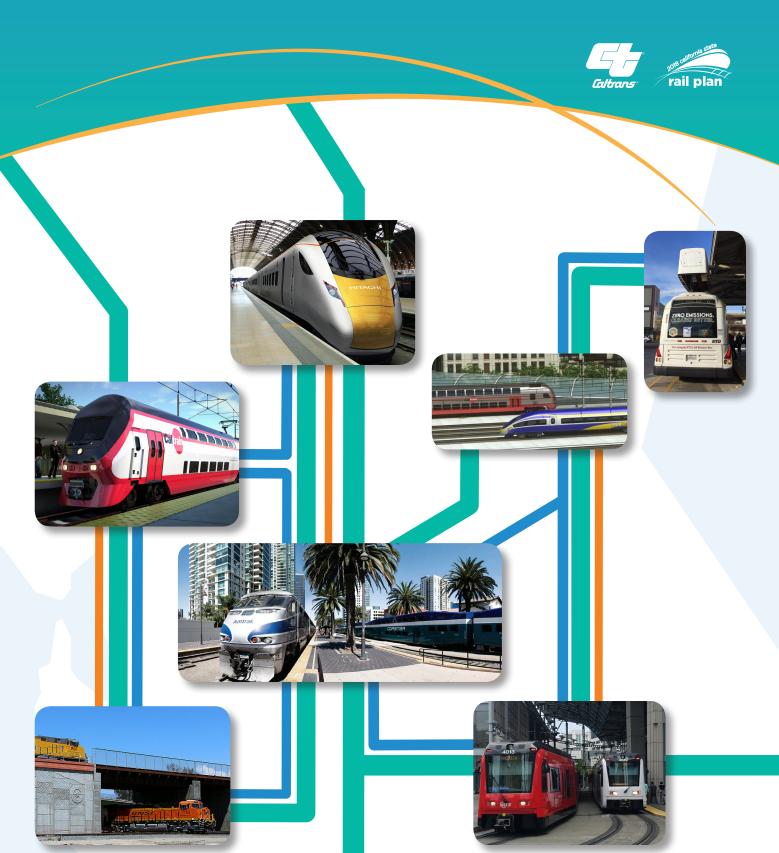
2018 California State Rail Plan

Connecting California







Edmund G. Brown Jr. Governor

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Dear Fellow Californians:

People have come from all over the world to live and work in California and to enjoy our natural and built environments, diverse population and economy, universities, and employment centers. Our transportation system connects these people, places, and goods. To effectively address a growing population and a growing economy, California needs a world-class multimodal transportation system, and a modern rail system is central to this.

A rail renaissance is already underway in California, with the state's three intercity rail services and five commuter rail services seeing significant new investment to make service faster, safer, more frequent, and more customer friendly. California's high-speed rail project is under construction and will fundamentally transform how people travel between our major regions while also providing convenient connections to our existing rail and transit systems. The California State Rail Plan (Rail Plan) will guide the State's priorities for future rail investments with its vision that California will have a premier, customer-focused, integrated rail system that successfully moves people and products while enhancing economic growth and quality of life.

I commend the California Department of Transportation (Caltrans) and its public and private sector partners for the work they have completed to develop a consensus rail vision to guide California. The California State Transportation Agency (CalSTA) has formally approved this Rail Plan.

This Rail Plan identifies ways to leverage investments to grow services in congested corridors, develop new regional rail services, provide customer-friendly connections, integrated ticketing and trip planning, reduce delays and travel times, and attract new riders. With this focus, the Rail Plan expects passenger rail trips to increase more than tenfold by 2040 to over 1.3 million rail trips each day. The Rail Plan also describes how California's rail system will improve its ability to move freight cleanly and efficiently by expanding freight rail capacity to handle a more than doubling of intermodal rail freight demand from ports.

Implementing the Rail Plan will take ongoing effort and coordinated planning between the State and our local agency partners. Ongoing partnerships will be instrumental to delivering the consensus vision of an integrated rail network to meet the State's policy goals of fostering livable communities, generating economic growth, and reducing harmful emissions.

Thank you to everyone who participated in the development of the 2018 California State Rail Plan.

Sincerely,

BRIAN C. ANNIS

Secretary





2018 CALIFORNIA STATE RAIL PLAN

September 2018

Prepared for

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California Air Resources Board

California Freight Advisory Committee

California High Speed Rail Authority

California Public Utilities Commission

California Transportation Commission

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Intercity Passenger Rail and Rail Transit

Bay Area Rapid Transit/BART

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Los Angeles County Metropolitan Transportation Authority

North County Transit District

Peninsula Corridor Joint Powers Board/Caltrain

Sacramento Regional Transit/SacRT

San Diego Metropolitan Transit System

San Francisco Municipal Transportation Agency/

San Joaquin Joint Powers Authority/

Altamont Corridor Express

Sonoma Marin Area Regional Transit

Southern California Regional Rail Authority/ Metrolink

Valley Transportation Authority

XpressWest



Regional Planning Agencies

California Association of Councils of Governments Metropolitan Transportation Commission Placer County Transportation Planning Agency San Benito Council of Governments San Bernardino Association of Governments San Diego Association of Governments San Francisco County Transportation Authority San Joaquin Valley Regional Policy Council San Luis Obispo Council of Governments Santa Barbara County Association of Governments Santa Cruz County Regional **Transportation Commission** Sacramento Area Council of Governments Southern California Association of Governments Riverside County Transportation Commission Transportation Agency for Monterey County

Freight Rail

California Shortline Railroad Association
California Association of Port Authorities/
California Airports Council
BNSF Railway
Genesee & Wyoming Inc.
Pacific Merchants Shipping Association
Union Pacific Railroad

Advocates

California Transit Association California Farm Bureau Federation Local Government Commission The Nature Conservancy

Tribal Representation

Native American Advisory Committee Northern California Chairman's Association Central California Chairman's Association Southern California Chairman's Association







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Acronyms and Abbreviations

AADT Annual Average Daily Traffic

AAR Association of American Railroads

AB Assembly Bill

ACE Altamont Corridor Express

AC Transit

Alameda-Contra Costa Transit District

The National Rail Passenger Corporation

BART

San Francisco Bay Area Rapid Transit District

BCA Benefit-Cost Analysis

BNSF Railway

BUILD Better Utilizing Investments to Leverage Development

CAGR compound annual growth rate

CalSTA California State Transportation Agency
Caltrans California Department of Transportation

CARB California Air Resources Board

CBR crude by rail

CCJPA Capitol Corridor Joint Powers Authority
CEQA California Environmental Quality Act
CFAC California Freight Advisory Committee

CFMP California Freight Mobility Plan
CFR Code of Federal Regulations

CHSRA California High-Speed Rail Authority

CO carbon monoxide CO, carbon dioxide

CPUC California Public Utilities Commission
CSMP Corridor System Management Plan
CTC California Transportation Commission

CTP California Transportation Plan

DMU Diesel multiple unit

DRMT Caltrans Division of Rail and Mass Transportation

EIR Environmental Impact Report
EIS Environmental Impact Statement
EMFAC CARB Emissions Factor model



electric multiple unit electric multiple unit degrees Fahrenheit

FAF Freight Analysis Framework

FAF3 Freight Analysis Framework version 3.5
FAST Fixing America's Surface Transportation

FFY federal fiscal year

FHWA Federal Highway Administration
FRA Federal Railroad Administration
FTA Federal Transit Administration

FY fiscal year

GDP Gross Domestic Product

GGRF Greenhouse Gas Reduction Fund

GHG greenhouse gas

g/PMT grams per passenger mile traveled

HDC High Desert Corridor

HSPTB High-Speed Passenger Train Bond Program

HSR High-Speed Rail

I Interstate

ICTF Intermodal Container Transfer Facility

INFRA Infrastructure for Rebuilding America grant program

IRI Program Intercity Rail Improvement Program ITA interagency transfer agreement

ITIP Interregional Transportation Improvement Program

ITSP Interregional Transportation Strategic Plan

JPA Joint Powers Authority

LA Metro Los Angeles County Metropolitan Transportation Authority

LAUS Los Angeles Union Station

LAX Los Angeles International Airport

LCTOP Low Carbon Transit Operations Program

LOS Level of Service

LOSSAN Los Angeles–San Diego–San Luis Obispo Rail Corridor Agency

MAP 21 Moving Ahead for Progress in the 21st Century Act

mph Mile(s) per hour

MPO Metropolitan Planning Organization



MTC Metropolitan Transportation Commission

Muni San Francisco Municipal Railway

NAAC Native American Advisory Committee

NATCOP Native American Tribal Coordination and Outreach Plan

NCTD North County Transit District

NISSP Network Integration Strategic Service Planning

NOx nitrogen oxide

O&M Operation and Maintenance

OCTA Orange County Transportation Authority

OTP on-time performance
OTS Office of Traffic Safety
P3 public-private partnership

PCJPB Peninsula Corridor Joint Powers Board

PHMSA Pipeline and Hazardous Materials Safety Administration
PISOP Public Involvement and Stakeholder Outreach Plan

PM particulate matter

 $PM_{2.5}$ particulate matter less than 2.5 microns in diameter PM_{10} particulate matter less than 10 microns in diameter

POLA Port of Los Angeles
POLB Port of Long Beach

PPP Public-Private Partnerships

PRCIP Passenger Rail Corridor Investment Plan

PRIIA Passenger Rail Investment and Improvement Act of 2008

PTA Public Transportation Account

PTC Positive Train Control

Rail Plan 2018 California State Rail Plan

RCTC Riverside County Transportation Commission

ROG reactive organic gases

ROSB Railroad Operations and Safety Branch

RRIF Railroad Infrastructure Financing and Improvement Act

RSIA Federal Rail Safety Improvement Act of 2008

RT Sacramento Regional Transit
RTP Regional Transportation Plan

RTPA Regional Transportation Planning Agency



SAC Stakeholder Advisory Committee

SANDAG San Diego Association of Governments
SANDAG Tribal Working Group San Diego Association of Governments,

Interagency Technical Working Group on Tribal Transportation Issues

SB Senate Bill

SCAG Southern California Association of Governments

SCCRTC Santa Cruz County Regional Transportation Commission

SCRRA Southern California Regional Rail Authority

SCS Sustainable Communities Strategies

SCVTA Santa Clara Valley Transportation Authority
SDMTS San Diego Metropolitan Transit System

SFAP Sustainable Freight Action Plan

SFMTA San Francisco Municipal Transportation Agency

SHA State Highway Account

SJJPA San Joaquin Joint Powers Authority
SJRRC San Joaquin Regional Rail Commission
SLOCOG San Luis Obispo Council of Governments
SMART Sonoma-Marin Area Regional Transit District

SRPAA State Rail Plan Approval Authority
SRTA State Rail Transportation Authority

STA State Transit Assistance

STB Surface Transportation Board

STIP State Transportation Improvement Program
TAMC Transportation Agency for Monterey County
TCAG Tulare County Association of Governments
TCEA Trade Corridor Enhancement Account

TCRF Traffic Congestion Relief Fund

TIFIA Transportation Infrastructure Finance and Innovation Act
TIGER Transportation Investment Generating Economic Recovery

Trade Corridor Enhancement Program

TIRCP Transit and Intercity Rail Capital Program

TOD Transit-Oriented Development

UPRR Union Pacific Railroad USC United States Code

TCEP



U.S. DOT United States Department of Transportation
U.S. EPA United States Environmental Protection Agency

USGS United States Geological Survey

2040 Vision 2040 Passenger Rail Vision

VMT Vehicle miles traveled





Executive Summary



WHAT IS THE 2018 CALIFORNIA STATE RAIL PLAN?

The Rail Plan establishes a long-term vision for **prioritizing state investment** in an **efficient**, **effective passenger and freight rail system**, which supports the goals and policies of the California Transportation Plan 2040. The Rail Plan identifies **service goals**, **capital costs**, **and a phased strategy** for achieving the Vision. This ambitious plan identifies a coordinated, statewide passenger rail network that will get Californians where they want to go, when they want to go, and enhance the movement of goods by rail to support California's industries and the economy.

PASSENGER RAIL: Rail Plan investments will open the door for travelers to **glide past traffic** on reliable trains and buses in dedicated lanes; **transfer quickly and easily** with timed transfers; and to plan an entire, door-to-door trip, even on different trains, using a **single ticket**.

FREIGHT RAIL: The Rail Plan establishes state priorities for freight: improving trade corridors, yards and terminals, and access for businesses; and enhancing the competitiveness of California's ports and intermodal transfer facilities.

IMPLEMENTATION HIGHLIGHTS

The Short-Term Plan (2022)

- » Caltrain electrification
- » Committed rail improvements/extensions
- » More bus connections to fill gaps
- » Elimination of existing rail freight bottlenecks
- » Statewide service planning connect train routes

The Ten Year Plan (2027)

- » High Speed Rail Central Valley and Silicon Valley segments
- » More frequencies using available capacity
- » Timed connections between services
- » Fully operational integrated ticketing
- » Rail freight shared passenger lines, trade corridors

The Vision (2040)

- » High Speed Rail Anaheim to San Francisco by 2033
- » High Speed Rail connections Sacramento, Inland Empire, San Diego
- » New regional rail system connections
- » Regular frequencies & fast services
- » Dedicated rail freight capacity











Statewide Map



