

A TRANSFORMATIVE INVESTMENT IN CALIFORNIA'S FUTURE

Ben Tripousis,
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HIGH-SPEED RAIL: More Than A Transportation Program

- California is 7th Largest Economy in the World
- Comparable to Northeast Corridor in Terms of Distance, Population and Complexity
- Transformative Investment
- Connecting all California Population Centers



HIGH-SPEED RAIL: Around the World

- 12 Countries with High-Speed Rail Service
 - » Dozens of Others with High-Speed Rail Under Construction & In Development
- Over 3,600 High-Speed Rail Train Sets
- Over 18,500 Miles of High-Speed Rail
- 1.6 Billion Annual Passengers







HIGH-SPEED RAIL OFFERS MORE CHOICES IN CALIFORNIA

- The State's Population is Growing
 - » 50 million by 2050
- Congestion Diminishes Our Competitiveness
 - » Highway: Six of top 30 congested urban areas in US are in California
 - » Airways: LAX to SFO is the busiest short-haul market in United States
 - » Railways: Freight and passenger service share tracks
- Poor Air Quality Impacts Our Communities
 - » South Coast and Central Valley Air Basins Don't Meet Current Clean Air Objectives
- An Efficient and Less Expensive Alternative
 - » Alternatives are 2-3 times more expensive





CONNECTING CALIFORNIA



- Phase I:
- » 520 Miles
- » San Francisco to Los Angeles/Anaheim
- Phase II:
 - » Extends 300 Miles
 - » Connections to Sacramento & San Diego

KEY PROGRAM MILESTONES

• Funding:

- » \$3.3 Billion Federal and \$9 Billion Prop 1A
- » 25% of Cap and Trade Proceeds
- » RFEI 36 Responses from Private Sector



- » Merced to Fresno: May 2012
- » Fresno to Bakersfield: June 2014



- » CP 1: Executed in August 2013, Under \$1 Billion
- » CP 2-3: Executed in July 2105, Over \$1 Billion
- » CP4: Bids Due November 2015, Estimated \$400 \$500 Million
- Official Groundbreaking Ceremony





CONNECTING CALIFORNIA: Northern California

- Improves Mobility & Upgrades Bay Area Transportation Infrastructure
- Blended System Along Peninsula
 - » Minimizes Impacts
 - » Reduces Costs
 - » Expedites Implementation
 - » Improves Safety
 - » Reduces Greenhouse Gas Emissions
- Connects Bay Area to Central Valley
- Connections within Northern California
 - » San Francisco to San Jose = 30 Minutes
 - » San Francisco to Fresno = 90 Minutes
 - » San Jose to Fresno = 60 Minutes
- Create Multimodal Transportation Hubs
 - » Transbay Transit Center
 - » Millbrae Transit Center
 - » San Jose Diridon Station
 - » Gilroy Station

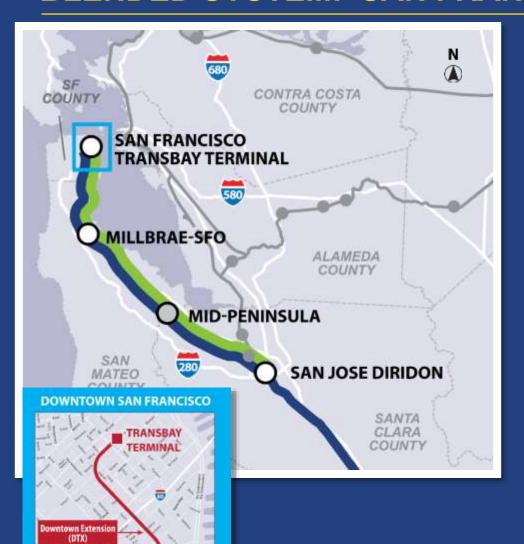


CALTRAIN MODERNIZATION PROGRAM

- Early Investment Program (\$1.7 billion)
 - » Advanced Signal System (CBOSS/PTC)
 - Scheduled Completion 2015
 - » Peninsula Corridor Electrification Project
 - Scheduled Completion 2020
 - 87% Reduction in Air Pollution in 2020
- Funded By 2012 Nine Party MOU
 - » \$705 Million from High-Speed Rail



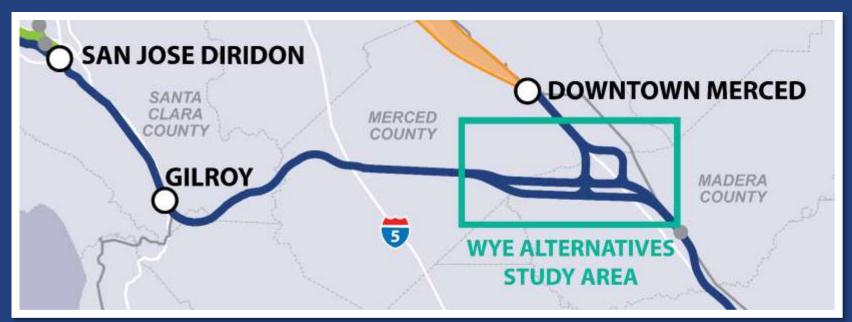
BLENDED SYSTEM: SAN FRANCISCO TO SAN JOSE



- 51-Mile Corridor
- Blended Service on Electrified Caltrain Corridor
- Stations Being Studied:
 - » Transbay Terminal (TTC)
 - »4th and King
 - » Millbrae-SFO
 - » Mid-Peninsula Option
 - » San Jose (Diridon)

SAN JOSE TO MERCED PROJECT SECTION

- 84-Mile Corridor
- Central Valley Wye Portion Being Studied Separately
- Primarily Follows Highway 101 and Highway 152 through the Pacheco Pass
- Stations Being Studied:
 - » San Jose (Diridon)
 - » Gilroy



REGIONAL IMPROVEMENTS BENEFIT EXISTING SYSTEMS

- BART: \$145 Million, Millbrae Station Track Improvements and New BART Cars
- SF Muni: \$61 Million, Light Rail Extension
- Caltrans/Amtrak Capitol Corridor: \$63 Million, Track Improvements to Increase Service
- Caltrans/Amtrak San Joaquin: \$41 Million, Construction of New Track to Increase Service
- Altamont Commuter Express (ACE): \$11 Million, Stockton Passenger
 Track Extension

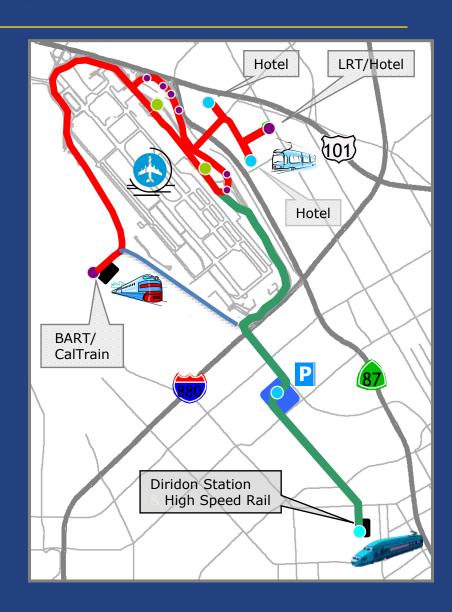






PROJECT DESCRIPTION

- Connections
 - » Airport
 - » Parking
 - » Rental Cars
 - » Hotels
 - » Transit
- 6 Miles, 3 Bridges
- 10 Stations
- 150-300 Vehicles



WHY START IN THE CENTRAL VALLEY?

- Central Valley will Serve as the "Backbone" of a System that will Tie Major Regions of California Together
- Fastest Growing Region in the State
- Revitalize Central Valley Downtown Centers
- Creates Jobs in a Region with High Unemployment
- Best, Most Cost-Efficient Location for Testing







CENTRAL VALLEY: BACKBONE OF HIGH-SPEED RAIL

- Construction Package 1
 - » 29 Miles Between Madera and Fresno
 - » Work is Underway
- Construction Package 2-3
 - » 65 Miles Between Fresno and Tulare-Kern County Line
 - » Environmental Clearances Complete
 - » Design-Build Contract Executed in June 2015
- Construction Package 4
 - » 22 Miles Between Tulare-Kern County Line and North of Bakersfield
 - » Environmental Clearances Complete
 - » 5 Teams Qualified to Bid
 - » RFP for Design-Build Released
 - » RFQ Awarded to HNTB

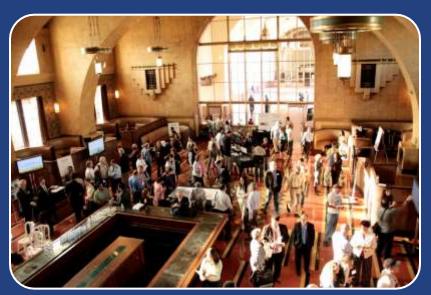




SOUTHERN CALIFORNIA: ACCELERATION & CONNECTIVITY

- Palmdale to Burbank/Burbank to Los Angeles
 - » Public & Community Feedback
 - » Palmdale: Golden Spike
- Connectivity & Bookend Projects
 - » Southern California Regional Interconnector Project (SCRIP)
 - » Grade Separations
- Station Area Planning
 - » Palmdale, Burbank & LA Union Station





HIGH-SPEED RAIL: Creating Jobs & Workforce Development

- Targeting: California
- Construction: Direct, Indirect Jobs in Hard-Hit Sectors



- Permanent: Rail Modernization Creates Efficiencies Statewide
- U.S. Conference of Mayors: High-Speed Rail Will Add \$4.3 Billion to Los Angeles Regional Economy and 55,000 Jobs by 2035
- Bay Area Council: Caltrain Electrification Would Create almost 9,600 Jobs and Generate \$2.5 Billion in Economic Activity

HIGH-SPEED RAIL JOBS

- Preliminary Construction Phase Jobs
 - » Planners Transportation, Environmental, Urban
 - » Engineers Civil, Mechanical/Industrial, Rail, Architectural, computer, Geotechnical, Electrical
 - » Managers/Workers Contracts, Compliance, Project, Program, Risk
 - » Environmental
 - » Surveyors
 - » Estimators
 - » Right of Way Agents
 - » Outreach / Public Relations
 - » Construction Worker/Trades



HIGH-SPEED RAIL JOBS

Post Construction/Permanent Jobs

- » Trainset Procurement
- » Railcar Manufacturer/Assembly
- » Operation Planners
- » Station Managers/Workers
- » Passenger Service/Reservation Agents
- » Train Operators/Workers
- » Train Dispatchers/Signaling
- » Train/System Security
- » Maintenance Engineers
- » Maintenance Workers Infrastructure, Train, Station, Track



SMALL BUSINESS PROGRAM

SMALL BUSINESS PARTICIPATION* AS OF JUNE 2015



- 30% Goal for Small Business Participation
 - » 10% Disadvantaged Business Enterprises (DBE)
 - » 3% Disabled Veteran Business Enterprises (DVBE)

MILLENNIAL GENERATION: A SHIFT IN PERSPECTIVE

• Average Americans:

» 6% Decrease in Miles Driven in 2011 vs. 2004

Drivers 16-34 Years:

» 23% Less Miles Driven from 2001 to 2009

Ownership Alternatives:

» Bike, Zip Car, Lyft, Uber, Mega Bus

Embrace Public Transport

» Los Angeles Metro and Metrolink

» BART and Muni (Bay Area)

» Amtrak



SOCIAL MEDIA: #IWILLRIDE

- Support and Educate Others on this
 Transformative Investment in California's Future
- #Iwillride Social Media Campaign
 - » Engage & Educate
- #Iwillride Youth Advocacy Campaign
 - » Increase Millennial Support







CHALLENGES OF TRANSFORMATIVE PROJECTS

- Transformative Projects Have Never Been Easy
- Golden Gate Bridge:
 - "Upside-Down Rat Trap that will Mar the Beauty of the Bay"
 - » 2,000 Plus Lawsuits
- BART: Called the Train to Nowhere
- University of California System & California State Water Project:
 - » Single Vote Margins





Where would California be without these?

THANK YOU

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