



CALIFORNIA
High-Speed Rail Authority

A TRANSFORMATIVE INVESTMENT IN CALIFORNIA'S FUTURE

Lisa Marie Alley, Chief of Communications
National Association of Railroad Passengers
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Seattle, WA



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 Systems**
- **Over 18,500 Miles of High-Speed Rail**
- **1.6 Billion Annual Passengers**



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**



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**
 - » Once Called the Train to No Where
- **University of California System & California State Water Project:**
 - » Single Vote Margins
- **Where would California be without these?**



WHY HIGH-SPEED RAIL IN CALIFORNIA?

- **Curbs Congestion**

- » LAX to SFO is the **Busiest Short-Haul Market** in US
- » 1 in 5 Flights out of Bay Area Heads to LA
- » Six of Top 30 Congested Urban Areas in US Located in California

- **Population Growth**

- » Estimated to Reach **50 Million by 2050**

- **Air Quality/Sustainability**

- » Meets Goals of AB 32/SB 375
- » **Worst Air** Communities in the Country

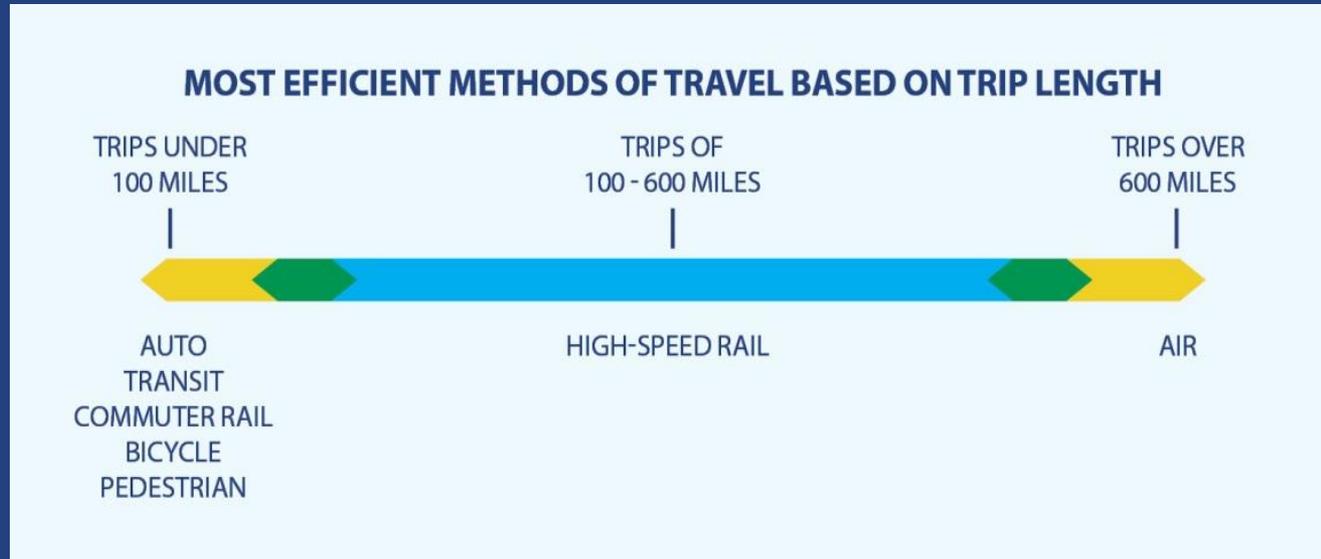
- **Alternatives are Costly**

- » 2-3 Times **More Expensive**



HIGH-SPEED: A More Efficient Alternative

- High-Speed Rail Fills a Gap in California's Infrastructure
- Equivalent New Capacity Between SF-LA would cost **\$158 billion**, and would require:
 - » 4,300 New Highway Lane Miles
 - » 115 Additional Airport Gates
 - » 4 New Airports, Runways



DELIVERING THE PROGRAM

- **Governor Jerry Brown**
- **California State Transportation Agency**
- **California High-Speed Rail Authority**
 - » Board of Directors (9 Members)
 - » CEO Jeff Morales
 - » Executive Team, Regional Offices
 - » Mix of State Employees and Contractors
 - Rail Delivery Partner
 - Design-Builders
 - Regional Consultants
 - Numerous Others



KEY PROGRAM REQUIREMENTS

- Provide a One-Seat Ride from SF to LA in 2 Hours and 40 Minutes
- Capable of Operating at Speeds up to 200 MPH
- Operate Without a Subsidy
- Connect the State's Major Cities
- Eventual Extensions to San Diego and Sacramento



CONNECTING CALIFORNIA



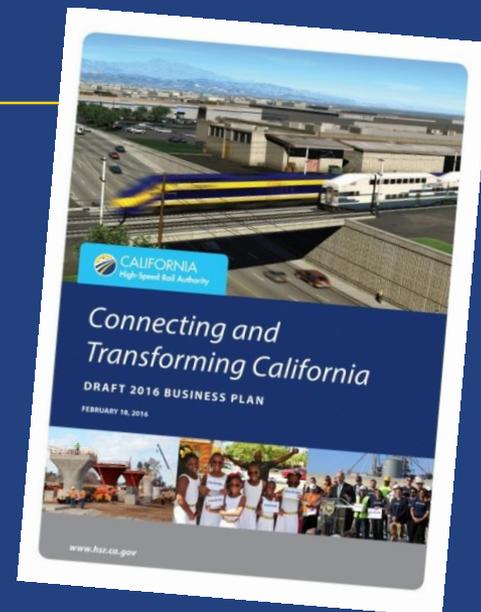
- **Phase I:**
 - » 520 Miles
 - » San Francisco to Los Angeles/Anaheim
- **Phase II:**
 - » Extends 300 Miles
 - » Connections to Sacramento & San Diego

FROM PLANNING TO IMPLEMENTATION

- **1970s:** California Creates Plan for Statewide System
- **1996:** Authority Created
- **2008:** Voters Pass Proposition 1A
- **2009:** President Obama Announces Stimulus Funds
- **2012:** Rapid Acceleration of Program
 - 2012 Business Plan
 - Senate Bill 1029
 - Funding & Environmental Approvals
- **2014:** Cap & Trade Investment and Work Underway
- **2015:** Groundbreaking Celebration
- **2016:** Draft 2016 Business Plan Released

DRAFT 2016 BUSINESS PLAN

- Foundational Document for Implementing the Program
- Includes:
 - » Summary of Progress Over the Last Two Years
 - » Approach to Deliver the System Using Existing Funds
 - » Updated Ridership Forecasts and Cost Estimates
 - » Describes Next Major Milestones
- Released February 18: Starts 60-Day Public Comment Period
- Due to the Legislature by May 1, 2016



DRAFT 2016 BUSINESS PLAN: Three Main Objectives

- **Initiate High-Speed Rail Service as Soon as Possible**
 - » Brings Benefits to California
 - » Generates Revenue to Attract Private Sector Participation
- **Make Strategic, Concurrent Investments**
 - » Investments that Connect State, Regional and Local Rail Systems
 - » Links the System Together Over Time
 - » Provides Immediate Mobility, Environmental Economic & Community Benefits
- **Be Ready When Funding Becomes Available**
 - » Complete Environmental Analysis & Secure Approvals
 - » Position Ourselves to Be Shovel Ready

DRAFT 2016 BUSINESS PLAN: Key Highlights

- **Capital Cost Reduction:**
 - » \$67.8 Billion (2014) to \$64.2 Billion
- **Phase 1 (San Francisco-LA/Anaheim)**
 - » Operational by 2029
- **Silicon Valley to Central Valley Line**
 - » Operational by 2025
 - » San Jose-North of Bakersfield
 - » \$20.7 Billion – Fully Funded
- **Burbank to Anaheim Corridor Improvements**
 - » Together with our Partners
 - » Invest \$4 Billion
- **Extension to San Francisco and Bakersfield**
 - » Additional \$2.9 Billion
 - » Operational by 2025



CONSTRUCTION IS UNDERWAY

- **Construction Package 1: 29 Miles**
 - » DB: Tutor Perini/Zachry/Parsons
 - » PCM: Wong+Harris
- **Construction Package 2-3: 65 Miles**
 - » DB: Dragados/Flatiron
 - » PCM: Arcadis
- **Construction Package 4: 22 Miles**
 - » DB: California Rail Builders
 - » PCM: HNTB



HIGH-SPEED RAIL CONSTRUCTION
Putting America to Work

THIS PROJECT FUNDED BY:

HIGH-SPEED PASSENGER TRAIN BOND PROGRAM
AMERICAN RECOVERY AND REINVESTMENT ACT
GREENHOUSE GAS REDUCTION FUND



BE WORK ZONE ALERT



CENTRAL VALLEY: Backbone Of High-speed Rail

- 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



HIGH-SPEED RAIL: Benefits to the Community

- **Environmental Improvements**
 - » Reduction in Greenhouse Gas = Air Quality Improvements
 - » Habitat Mitigation
 - » Resource Preservation
- **Community Enhancements**
 - » Design Guidelines
 - » Eliminates Grade Crossings = Safety Improvements
 - » Enhanced Productivity
- **Access & Mobility**
 - » Station Communities
 - » Modal Connectivity
 - » Ride Share
 - » Pedestrian and Bike



HIGH-SPEED RAIL: Helping Shape Cities

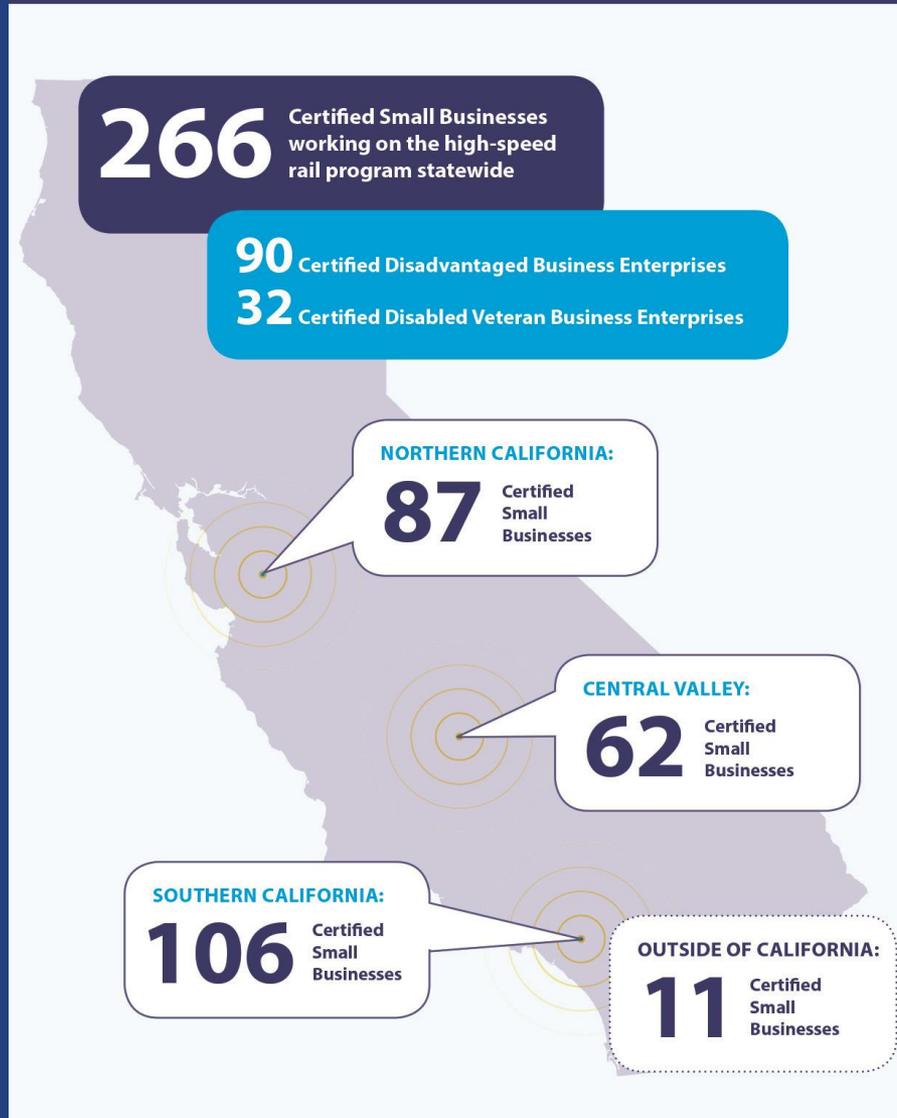
- **Ties Economies Together**
 - » San Francisco to Fresno = 60 Minutes
 - » Bakersfield to Los Angeles = 60 Minutes
 - » San Francisco to Los Angeles = 2 Hours 40 Minutes
- **Connects With and Reinforces Local Mobility**
- **Foundation for Sustainable Growth**
- **Opportunities for Revitalization in Downtown Cores**



HIGH-SPEED RAIL: Investing In Small Businesses

SMALL BUSINESS PARTICIPATION

As of November 2015



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

HIGH-SPEED RAIL: Creating Jobs & Workforce Development

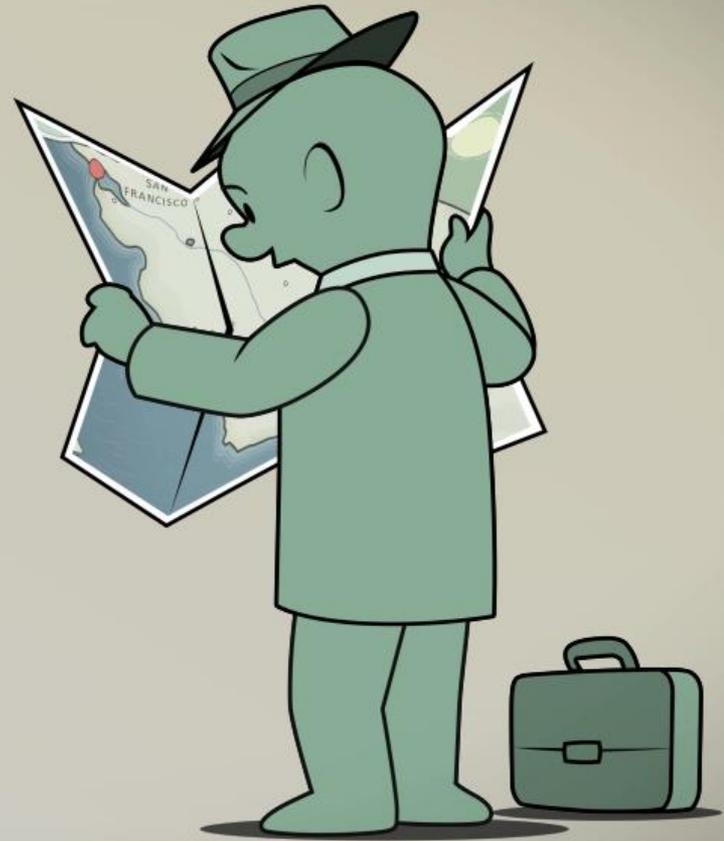
- Targeting: **California**
- Construction: Direct, Indirect Jobs in Hard-Hit Sectors
- Permanent
- U.S. Conference of Mayors: High-Speed Rail Will Add **\$4.3 Billion** to Los Angeles Regional Economy and **55,000 Jobs** by 2035
- Bay Area Council: Caltrain Electrification Would Create almost **9,600 Jobs** and Generate **\$2.5 Billion** in Economic Activity



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





THANK YOU

Lisa Marie Alley, Chief of Communications

(916) 324-1541

lisa.alley@hsr.ca.gov

Headquarters

California High-Speed Rail Authority

770 L Street, Suite 1160

Sacramento, CA 95814

www.hsr.ca.gov



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