



CALIFORNIA
High-Speed Rail Authority

High-Speed Rail Implementation

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November 20, 2014

Sacramento, CA



HIGH-SPEED RAIL: More Than A Transportation Program

- **California is 8th Largest Economy in the World**
- **Comparable to Northeast Corridor in Terms of Distance, Population and Complexity**
- **Transformative Investment**
- **Connecting all California Population Centers**



WHY HIGH-SPEED RAIL IN CALIFORNIA?

- **Curbs Congestion**

- » LA Basin to Bay Area is the **Busiest Short-Haul Market** in US
- » 1 in 6 Flights out of LA Heads to Bay Area
- » Six of Top 30 Congested Urban Areas in US Located in California

- **Population Growth**

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

- **Air Quality/Sustainability**

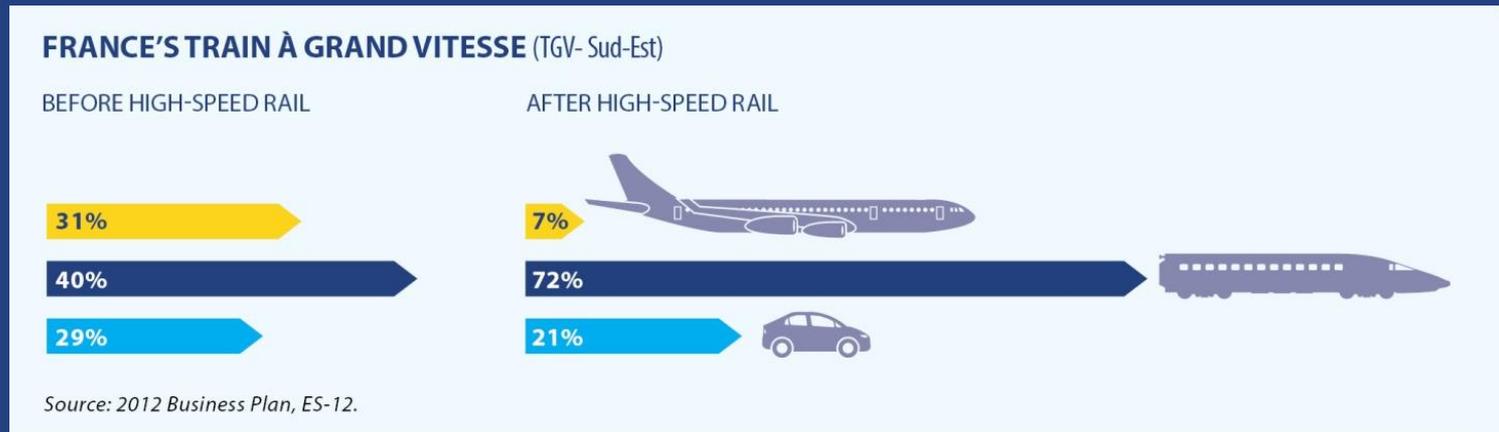
- » Supports AB 32 and SB 375 Implementation
- » **Benefits Regions With Worst Air Quality**

- **Alternatives are Costly**

- » 2-3 Times **More Expensive**



ENVIRONMENTAL BENEFITS OF MODE SHIFT



- **Mineta Transportation Institute Report:**
 - » Independent studies confirm that high-speed rail has resulted in dramatic mode shifts
 - » California High-Speed Rail positioned to achieve the same results
- **Acela share of air/rail market increased from 37% to 75% (DC to NY) from 2000 to 2011**
- **Mode Shift in California:**
 - » High-speed rail service is forecast to reduce GHG emissions between .14 and .23 million metric tons of CO₂e in its first year of operation.

CONNECTING CALIFORNIA



- » Caltrain Electrification & Early Investments in the Peninsula Corridor
- » Central Valley “Backbone” of High-Speed Rail
- » Regional Enhancements in Southern California
- » Statewide Connectivity Projects & Investments
- » Jobs, Training & Small Business Participation

KEY MILESTONES

- **Funding:**

- » \$3.3 Billion Federal and \$4.7 Billion Prop 1A
- » 25% of Future Cap and Trade Proceeds

- **Environmental Clearances:**

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



- **Construction Packages:**

- » CP 1 Executed in August 2013, Under \$1 Billion
- » CP 2-3 Execution Expected in Early 2015

- **Voluntary Emissions Reduction Agreement (VERA):**

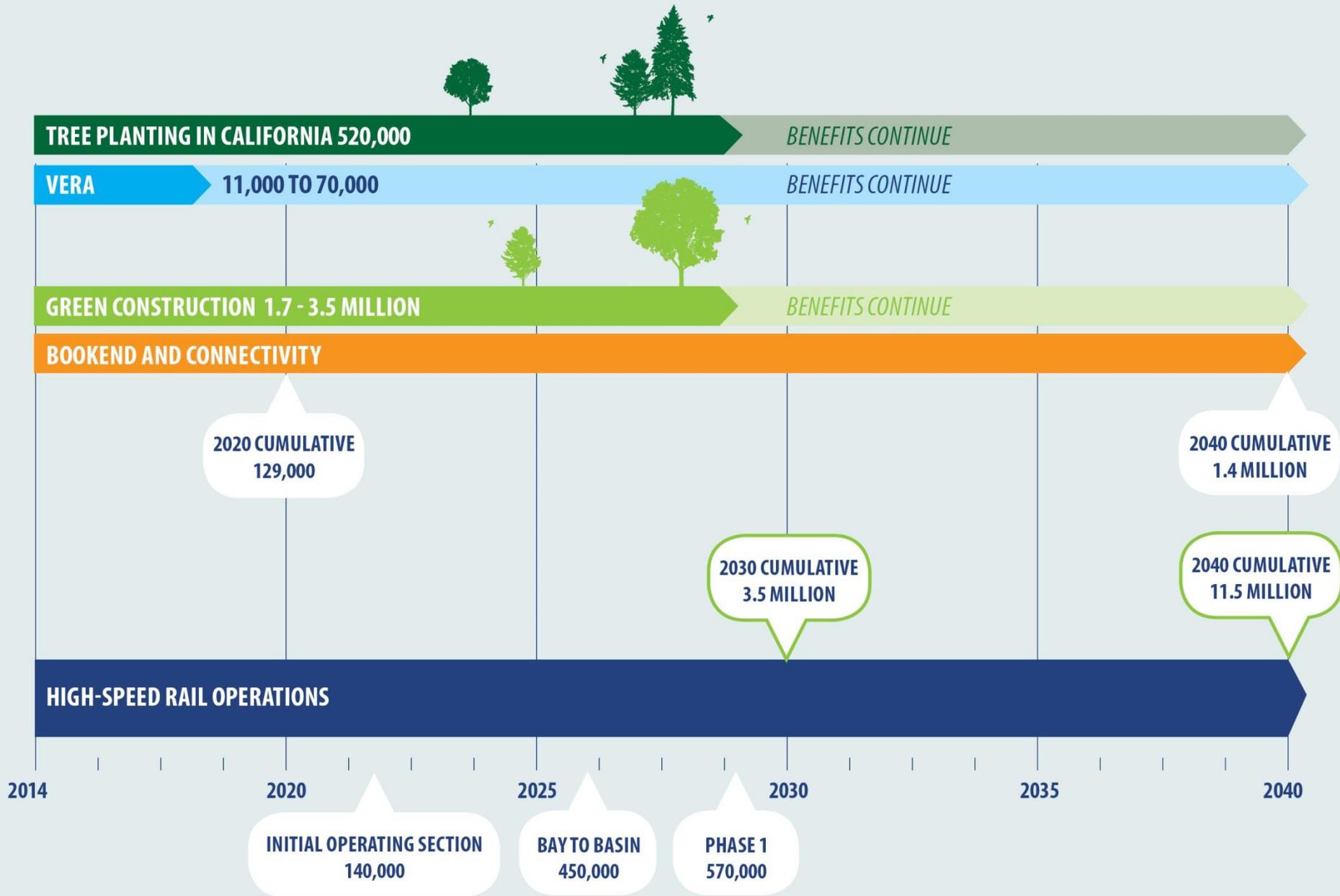
- » MOU with San Joaquin Unified Air Pollution Control District
- » Zero Net Emissions
- » Replaces Aging Equipment Including Tractors and Irrigation Pumps

ENVIRONMENTAL BENEFITS: Best Kept Secrets

- Preserving Agricultural Land
- Improving Air Quality
- Preserving & Enhancing Critical Habitat
- Reducing Green House Gas Emissions
- Reinforcing SB 375: Station Area Planning
- Urban Greening: Planting Trees
- Clean & Green Construction
- 100 % Renewable Energy Use
- Modernizing Transit Statewide



Green House Gases Emissions Savings (in mtco2e)



CAP & TRADE PROCEEDS: GAME CHANGER

- Unprecedented Investment in Transit & Rail
- Reinforces Integrated Approach
- Opportunity for Collaboration



NEXT STEPS WITH CAP & TRADE PROCEEDS



- Advance Multiple Segments of High-Speed Rail Concurrently
- Complete Planned Regional Transportation Improvements
- Establish an Interstate High-Speed Rail System with a Connection to Las Vegas from Palmdale