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
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 mtc02e)

TREE PLANTING IN CALIFORNIA 520,000

VERA 11,000 TO 70,000

GREEN CONSTRUCTION 1.7 - 3.5 MILLION

BOOKEND AND CONNECTIVITY

2020 CUMULATIVE 129,000

2030 CUMULATIVE 3.5 MILLION

2040 CUMULATIVE 1.4 MILLION

2040 CUMULATIVE 11.5 MILLION

HIGH-SPEED RAIL OPERATIONS

INITIAL OPERATING SECTION 140,000

BAY TO BASIN 450,000

PHASE 1 570,000

2014 2020 2025 2030 2035 2040
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