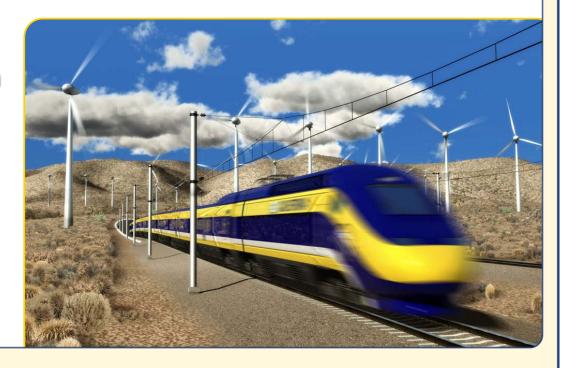
CALIFORNIA'S HIGH-SPEED RAIL SYSTEM

Realizing the Vision of a High-Speed Rail System in California

presented at UC Berkeley CEPP

Roelof van Ark







HIGH-SPEED RAIL AROUND THE WORLD ...



...AND HERE IN CALIFORNIA



THE BASICS

California's high-speed train project

- First phase of 520 miles;
 800 miles when full system is realized
- Operating speeds up to 220 mph; 90-125 mph in urban areas
- 100% clean electric power
- Safely grade-separated
- Reliable, easy way to travel
- Multi-modal transportation hubs

California High-Speed Train Map, Statewide Overview



April 2010



WHY WE NEED IT

Environment

- Increased transportation without increased air pollution
- Decreased consumption of fossil fuels
- Land-use benefits: anti-sprawl

Mobility

 Experts agree that economic power stems from the ability to move people and goods around the state

Jobs

- 600,000 full-time, one-year, construction-related job equivalents
- 450,000 economy-wide jobs by 2035



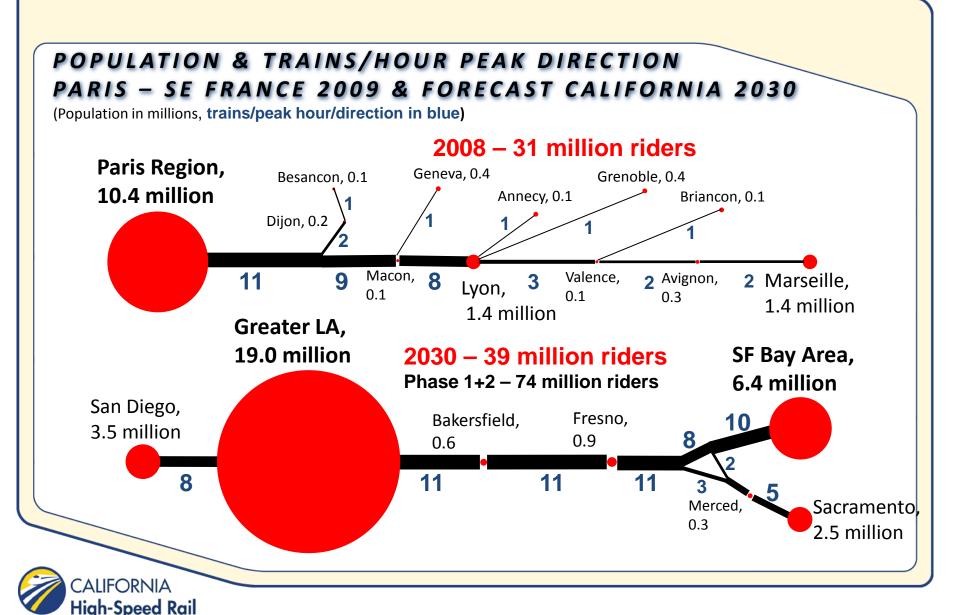


WHY WE NEED IT

Population Growth



COMPARISONS TO INTERNATIONAL HSR SYSTEMS



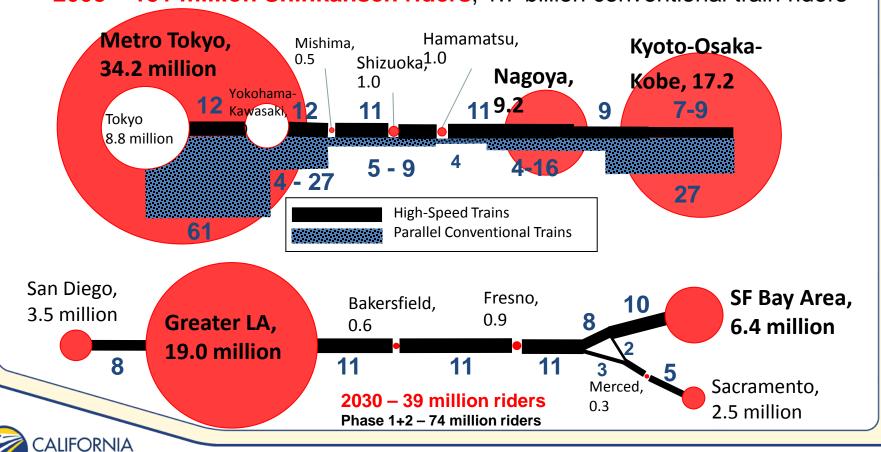
COMPARISONS TO INTERNATIONAL HSR SYSTEMS



(Population in millions, trains/peak hour/direction in blue)

High-Speed Rail

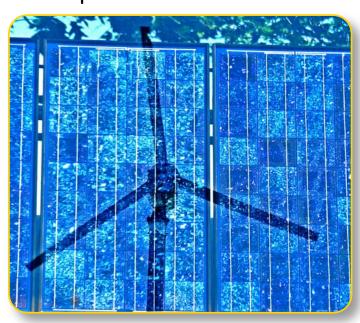
2008 – 151 million Shinkansen riders, 1.7 billion conventional train riders



SUSTAINABILITY GOALS

Construction

- CHSRA is a member of EPA's Collaborative for Sustainable Transportation and Infrastructure Construction (CSTIC)
- Maximize use of recycled/low-energy materials
- Implement construction waste management plan
- Maximize waste segregation to minimize landfill impacts
- Build energy-efficient facilities (e.g., LEED-certified stations)
- Maximize energy efficiency/GHG emissions reduction measures





SUSTAINABILITY GOALS

Policies

Board Policy Goal: 100 percent renewable energy





SUSTAINABILITY GOALS

Station Area Development Policies

Station Areas

- Harness the transformative power of HSR
- Context-sensitive station design for development
- Solve for a pedestrian scale
- Balance all the access modes
- Plan around the station for TOD



Madrid Station



Paris station



WHERE WE ARE NOW

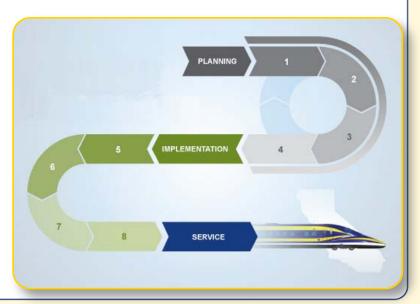
Transitioning from Planning to Implementation

Undergoing NEPA/CEQA review in all project sections

- Central Valley sections (Merced-Fresno, Fresno-Bakersfield) are completing scoping and the analysis of alternative alignments and will publish Draft EIR documents by mid-2011.
- On track to secure environmental clearance by early 2012.
- All seven Phase 1 sections continue to do environmental analyses.
- Receiving public input on all alignments.

Building toward construction

- RFEI followed by RFQ by mid-2011 with RFPs in early 2012.
- Begin awarding construction contracts in the second half of 2012
- Authority staffing up for current/future
 needs.





CURRENT FUNDING SUMMARY

FUNDING	FEDERAL	STATE	TOTAL
SOURCE	AWARD	MATCH	
ARRA	\$1.85	\$1.85	\$3.7
Jan. 2010	billion	billion	billion
HSIPR Federal FY 10-11 Oct. 2010	\$715 million	\$306 million	\$1.02 billion
ARRA	\$616	\$616	\$1.234
Dec. 2010	million	million	billion



Current funding totals **nearly \$6 billion** plus potential for **up to \$2 billion** additional from **Florida reallocation** and matching funds

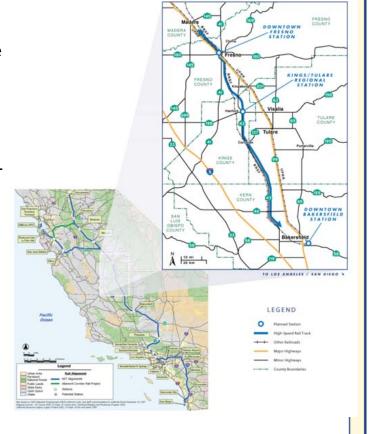


INITIAL CONSTRUCTION

Starting in the Central Valley

The foundation for true high-speed rail

- Only section where California's HST system will travel 220-mph maximum operating speed for long periods of time (enabling the two-hour, 40-minute requirement for trip time between LA and San Francisco)
- Initial track in the Central Valley will serve as testing and proving ground for new highspeed train technology in the United States
- Less expensive land and less complex engineering in the Valley
- Near-term job creation benefits
 (conservative estimate of 100,000 jobs –
 direct and indirect over life of the first
 \$5.5 billion in construction)





FIRST PASSENGER TRAINS

Building Outward North/South

Must expand initial construction into an "Initial Operating Section"

 Will require additional track built north and south of the Central Valley

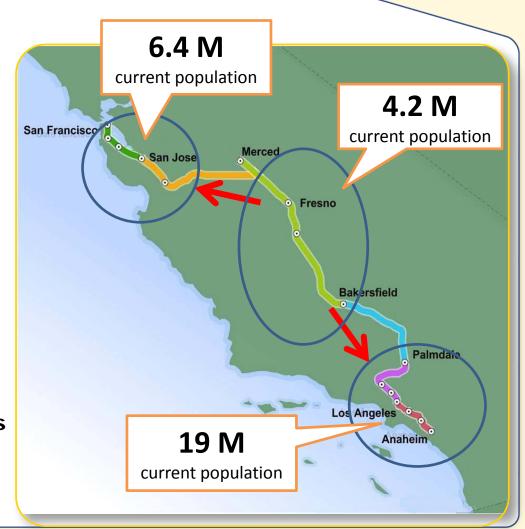
Top EIR priority

- Fresno-Bakersfield
- Merced-Fresno

Next priority

- San Jose-Merced
- Bakersfield-Palmdale
- Palmdale-Los Angeles

Initial Operating Section plans to be reviewed by Legislature





STAYING UP TO SPEED

Contact Info

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- 916-324-1541
- www.cahighspeedrail.ca.gov
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