

High Speed Rail for America: The Time is Now!

California High Speed Rail Forum:
Sharing 50 years' experience of the
"SHINKANSEN"

April 30, 2015

Hon. Rod Diridon Sr.

Chair, US High Speed Rail Association

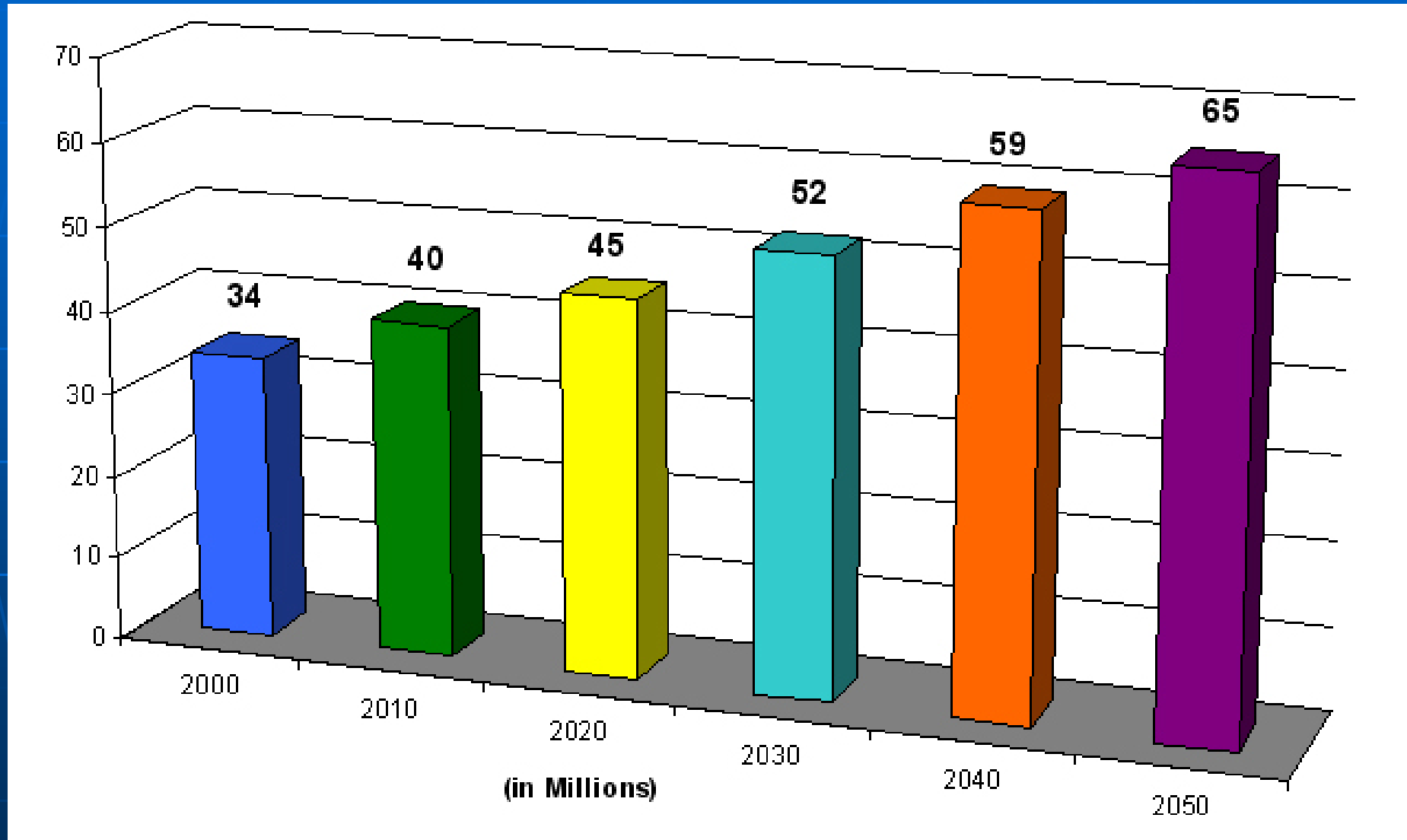
*Past Chair Intercity High Speed Rail Committee
American Public Transit Association*

*Chair Emeritus
California High Speed Rail Authority Board*

*Emeritus Executive Director
Mineta National Transit Research Consortium
Mineta Transportation Institute*



California's Projected Population



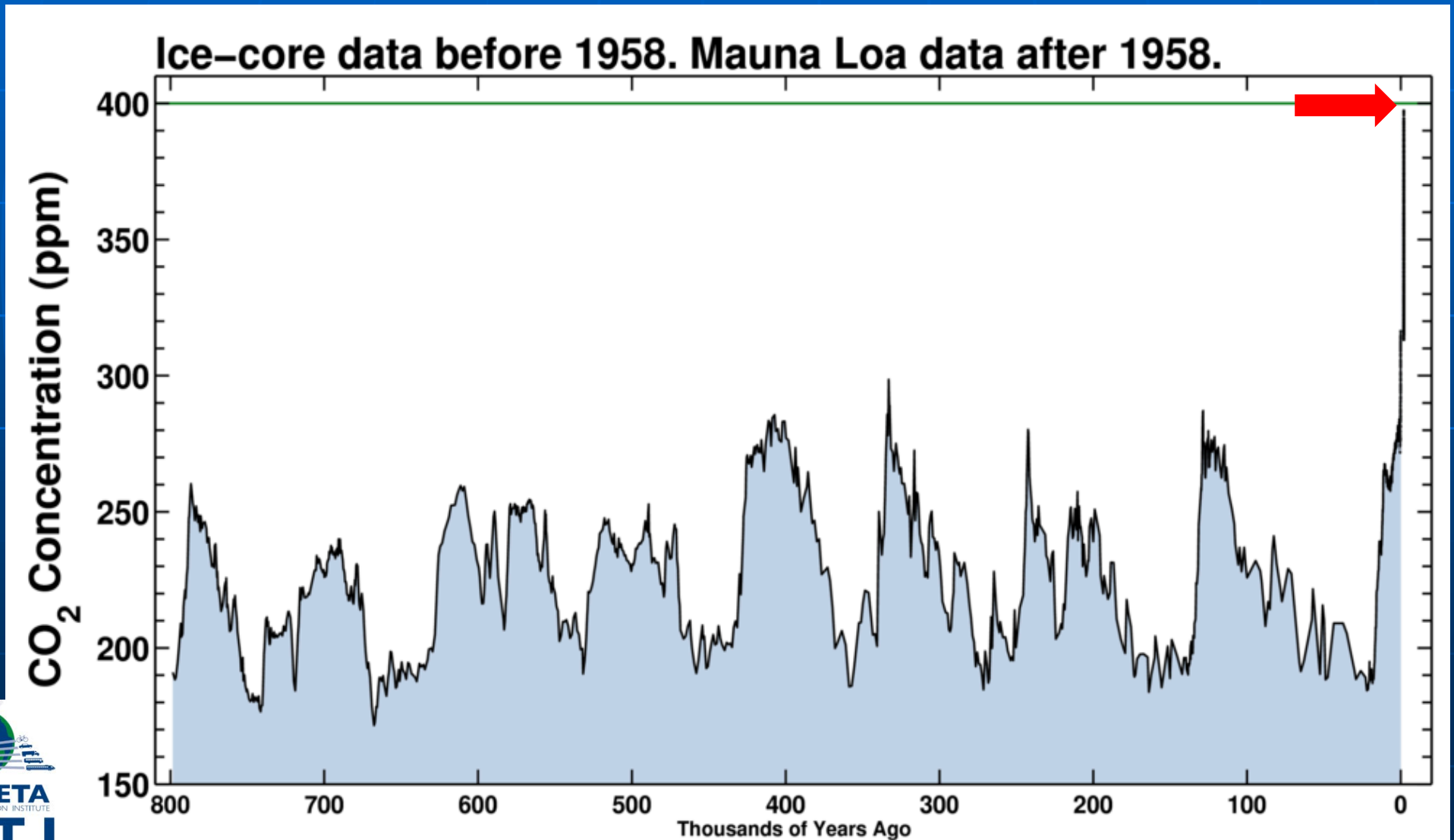
Sources: U.S. Census Bureau; Projections - CA Dept. of Finance

Created by Mineta Transportation Institute

The New York Times

Heat-Trapping Gas Passes Milestone, Raising Fears

May 11, 2013



National Geographic

Article on climate change

February 2015

“The coming decades, the World Bank predicts, will see political instability, food shortages, and famine, leading to the displacement of millions of people.”

(Pg. 116)

San Jose Mercury News Front Page, August 8, 2013

State report says global warming's wrath has already arrived

By Paul Rogers

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Rising ocean waters. Bigger and more frequent forest fires. More brutally hot summer days.

These aren't the usual predictions about global warming based on computer forecasts. They're changes already happening in California, according to a detailed new report issued Thursday by the California Environmental Protection Agency.

Climate change is "an immediate and growing threat" affecting the state's water supplies, farm industry, forests, wildlife and public health, the report says. The 258-page document was written by 51 scientists from the Univer-

sity of California, Scripps Institution of Oceanography, Lawrence Berkeley National Laboratory, U.S. Geological Survey and the National Oceanic and Atmospheric Administration, among other agencies and institutions.

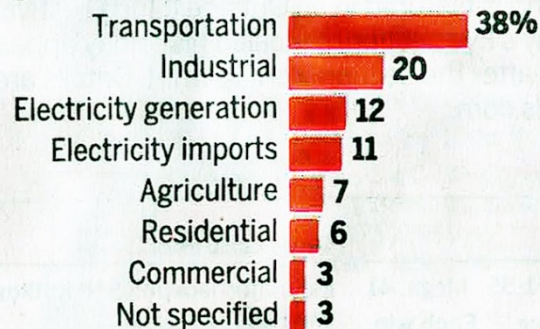
"Climate change is not just some abstract scientific debate," said California EPA Secretary Matt Rodriquez. "It's real, and it's already here."

Most Californians seem to agree. In a poll last month by the nonpartisan Public Policy Institute of California, 63 percent of the state's residents said the effects of global warming are already being felt, while 22 percent

See **WARMING**, Page 8

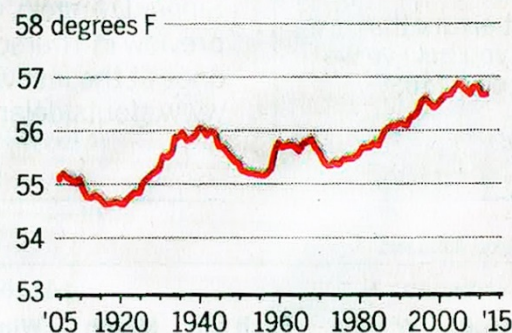
Sources of emissions

Transportation, industry and electrical generation account for 81 percent of all greenhouse gas emissions in California.



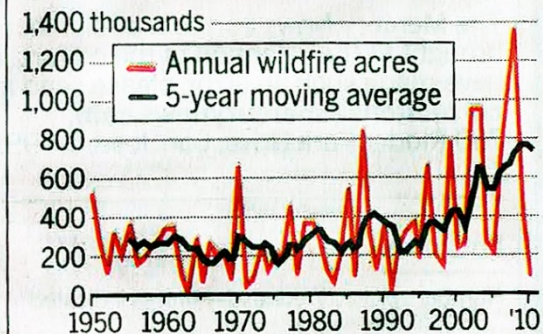
Rising temperatures

Since 1895, annual average temperatures in California have increased by about 1.5 degrees.



More severe fires

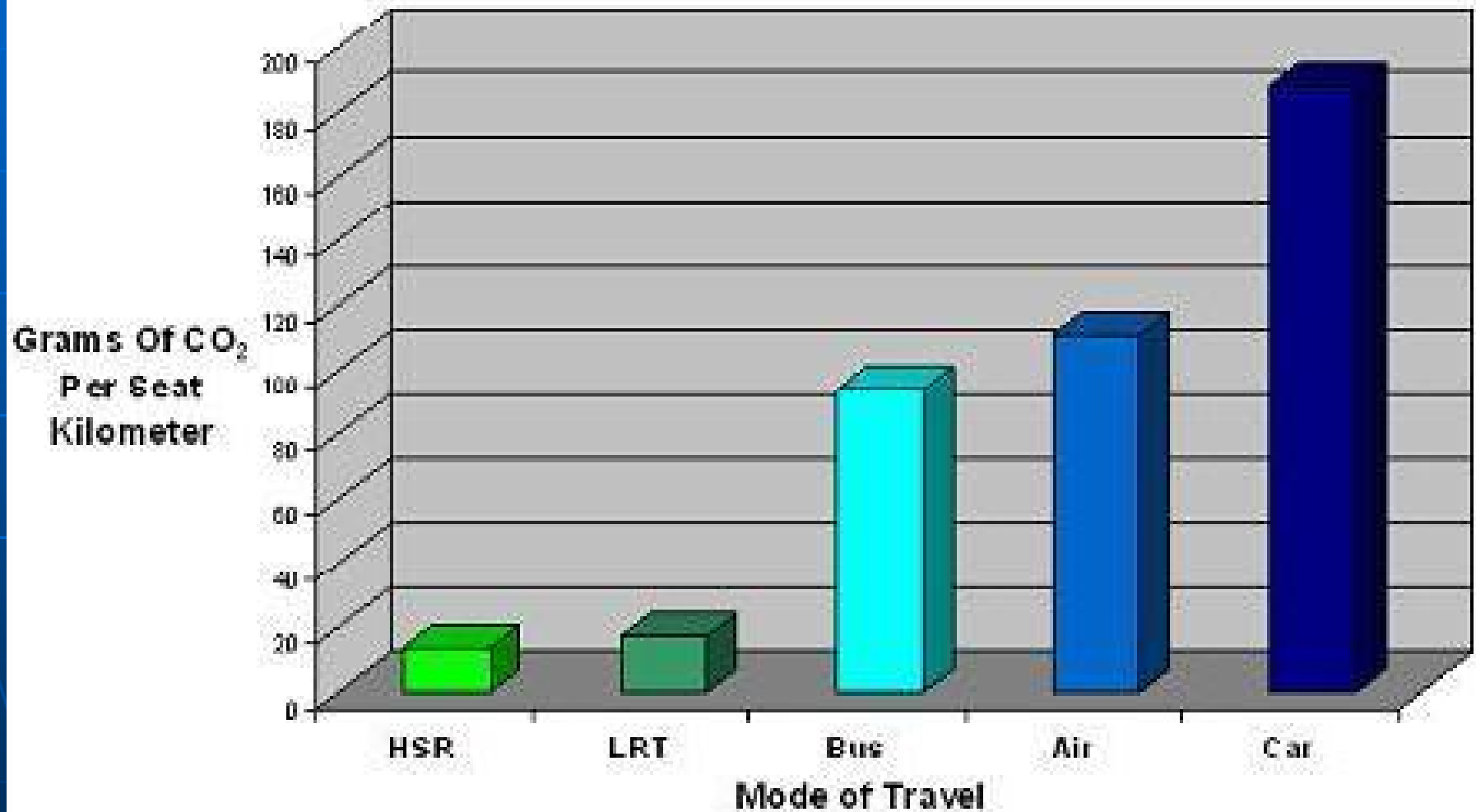
The average annual acreage burned in wildfires in the state since 2000 is almost twice as high as the 1950-2000 average.



Source: Indicators of Climate Change in California, Office of Environmental Health Hazard Assessment

BAY AREA NEWS GROUP

Carbon Footprint Mode Comparison



Data provided by Dr. Anthony Perl

Created by Mineta Transportation Institute

A Sampling: High-Speed Rail Around the World

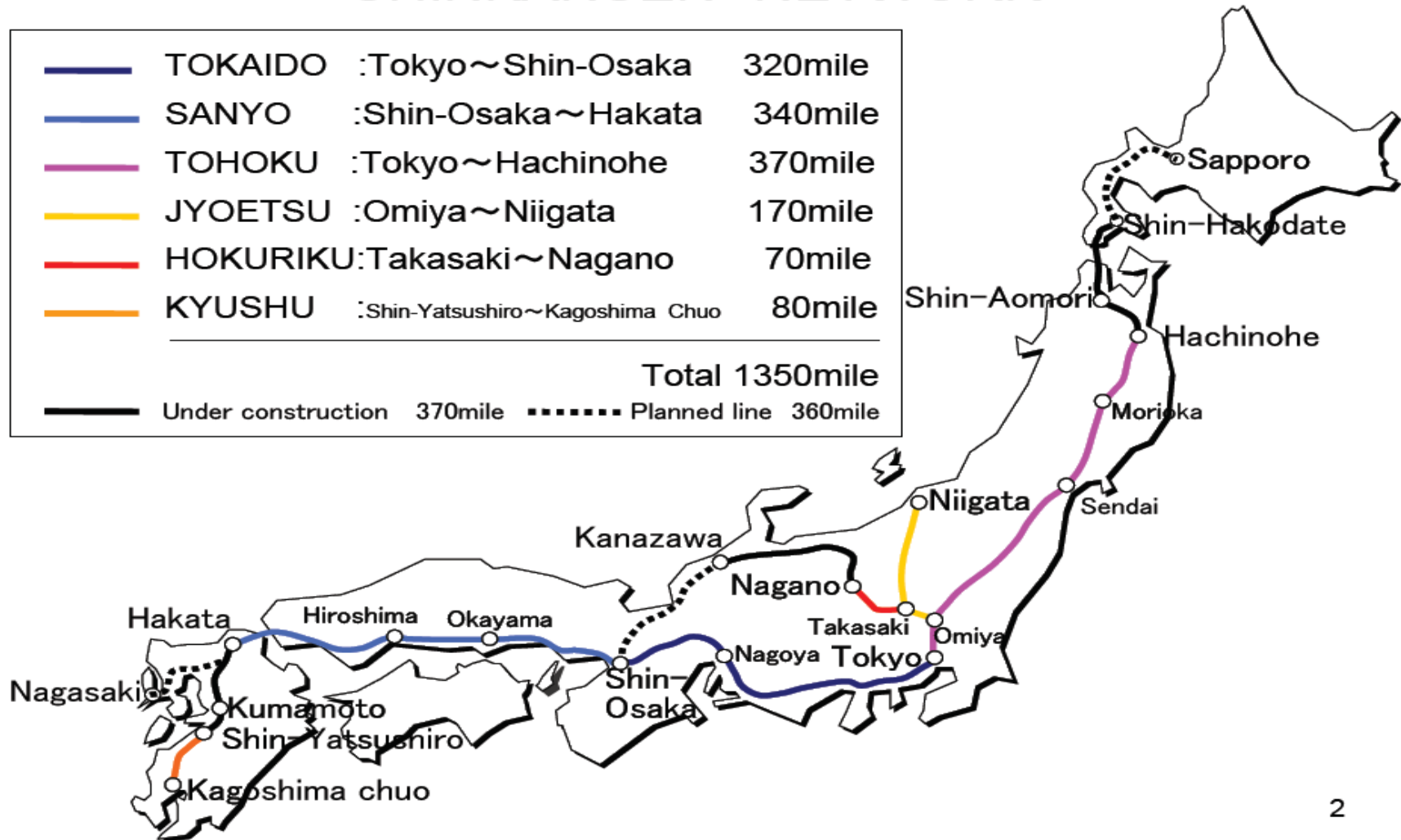


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High Speed Rail in Japan Route Map

SHINKANSEN NETWORK

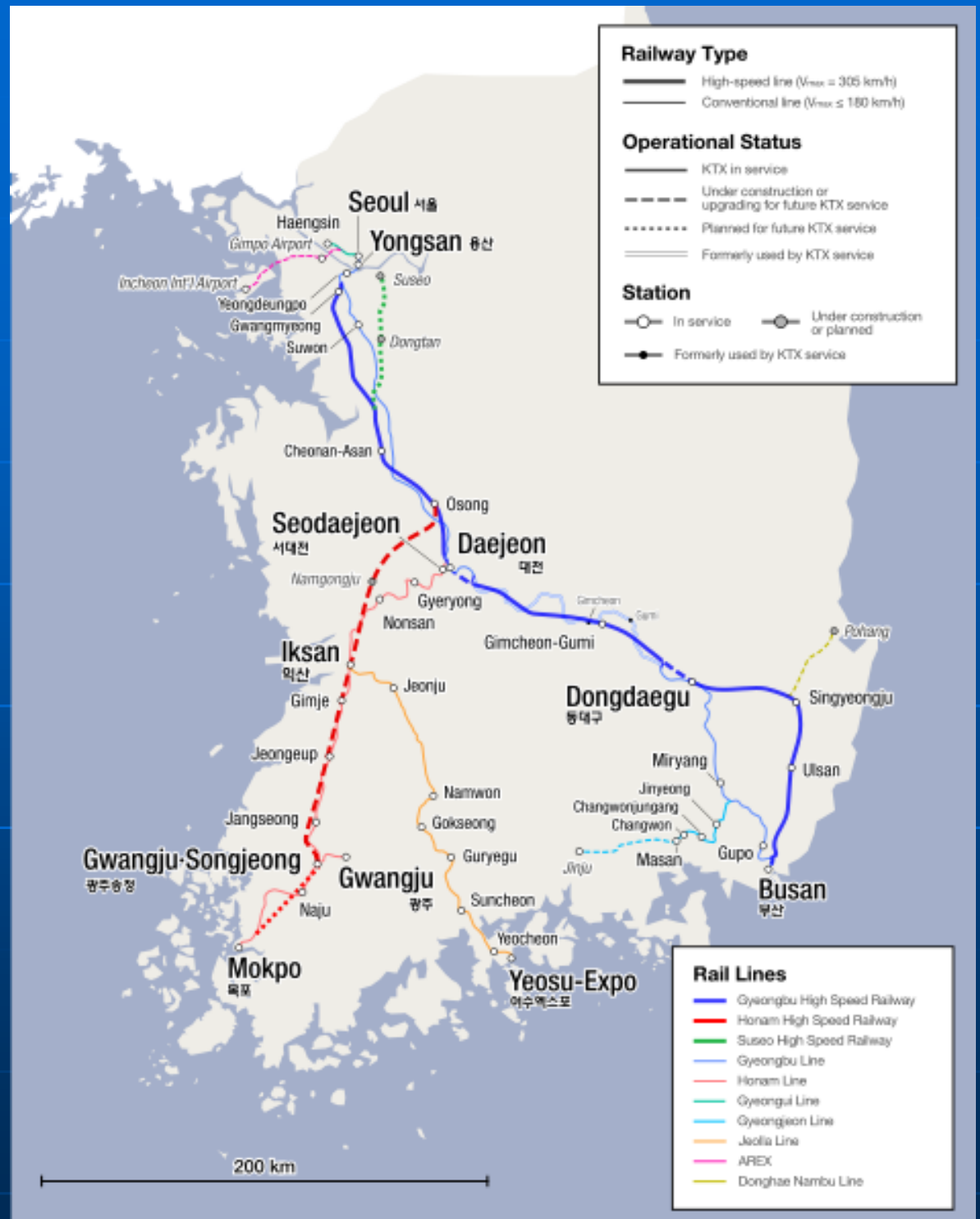
	TOKAIDO :Tokyo~Shin-Osaka	320mile
	SANYO :Shin-Osaka~Hakata	340mile
	TOHOKU :Tokyo~Hachinohe	370mile
	JYOETSU :Omiya~Niigata	170mile
	HOKURIKU: Takasaki~Nagano	70mile
	KYUSHU :Shin-Yatsushiro~Kagoshima Chuo	80mile
Total 1350mile		
	Under construction	370mile
	Planned line	360mile



Japan: N700



High Speed Rail in Korea Route Map



Created by Mineta Transportation Institute

High Speed Rail in Taiwan Route Map



Created by Mineta Transportation Institute

High Speed Rail in China Route Map





Europe 2025

Federally Designated HSR Corridors

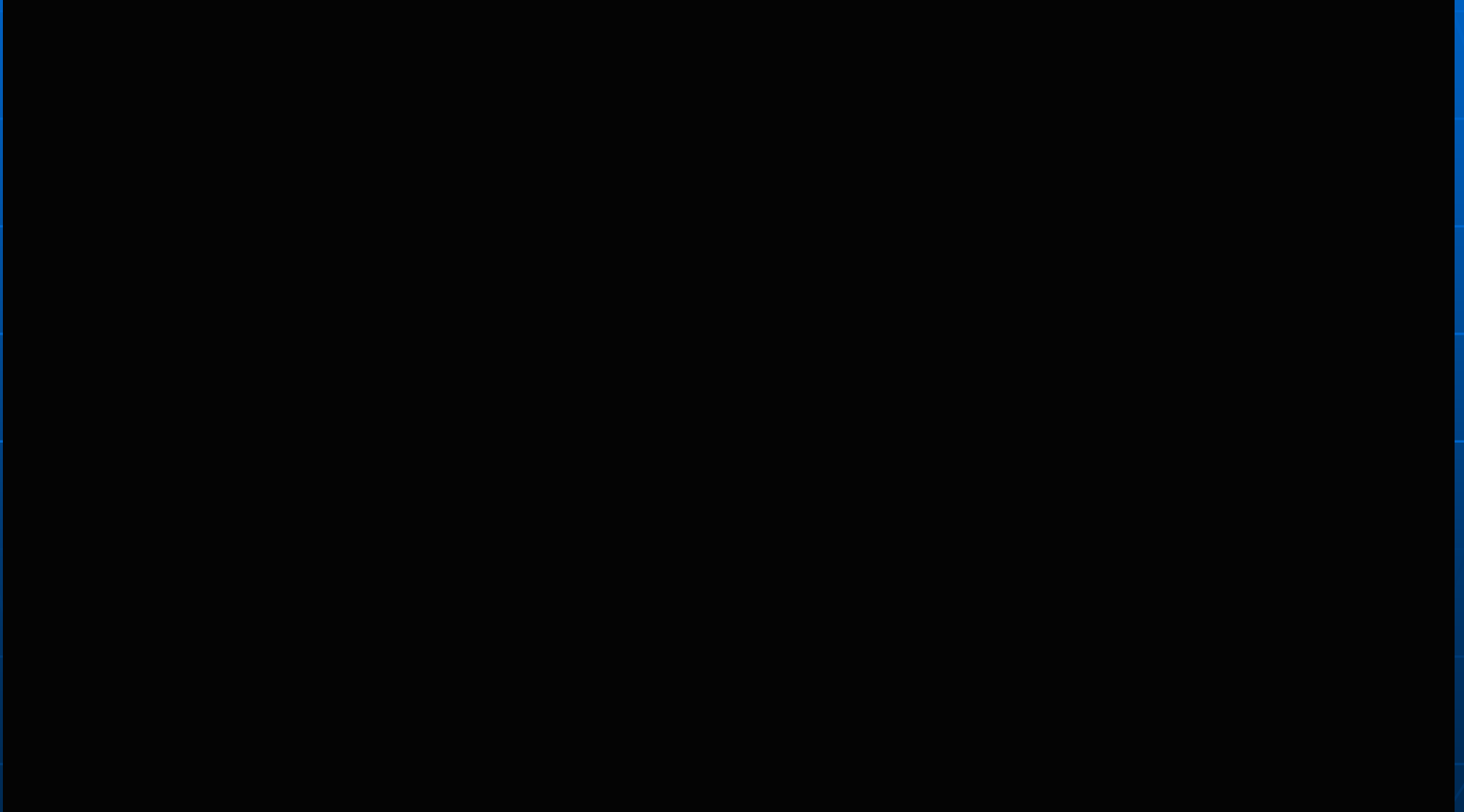


California HSR with Stations and Feeders



790 Miles
26 Stations

California HSR Corridor



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