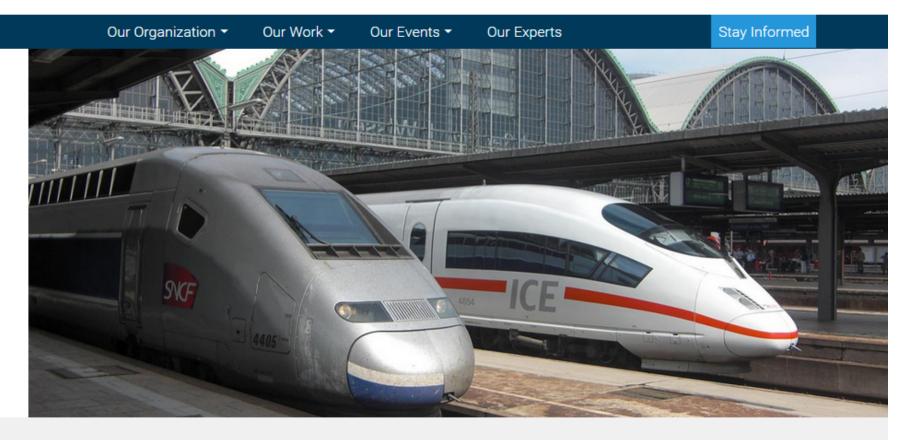
MAKING THE MOST OF HIGH-SPEED RAIL IN CALIFORNIA







The German Marshall Fund of the United States



REPORT

Making the Most of High-Speed Rail in California: Lessons from France and Germany

June 11, 2015















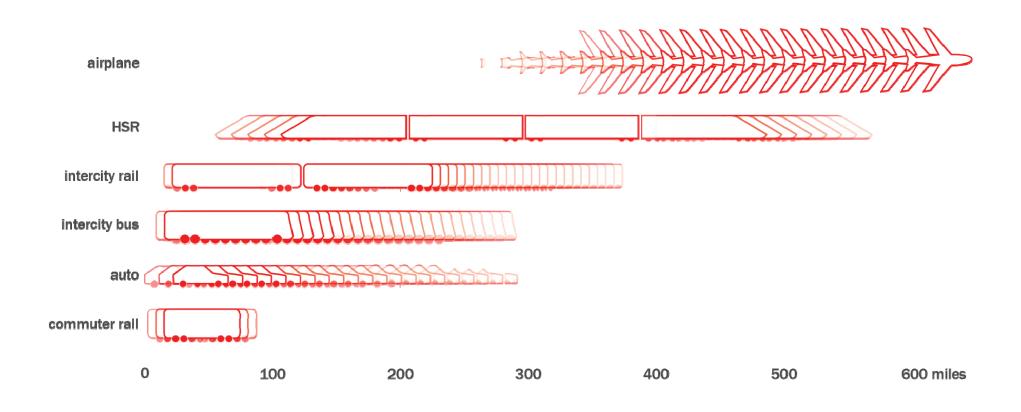
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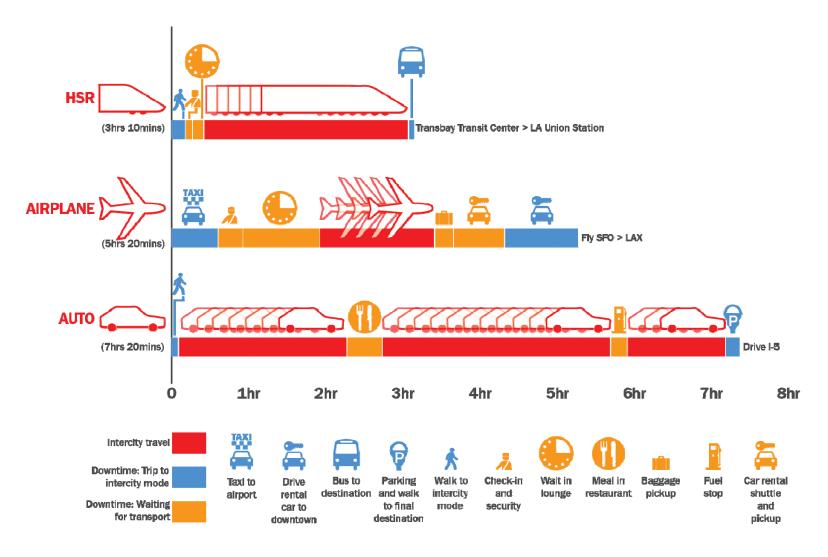
- Why invest in high-speed rail?
- Rationale for California HSR
- Relevance for FTA and FRA
- HSR in France and Germany
- Key topics in HSR planning
- Lessons for California and the Bay Area

Overview

Optimal Distance Ranges of Intercity Travel Modes

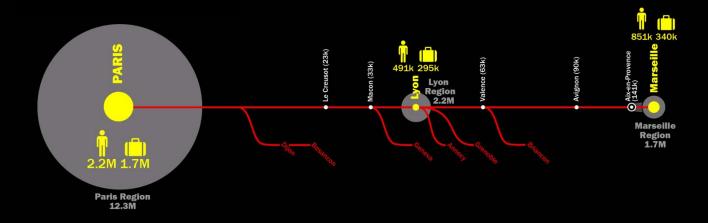


SF Ferry Building to LA Grand Central Market

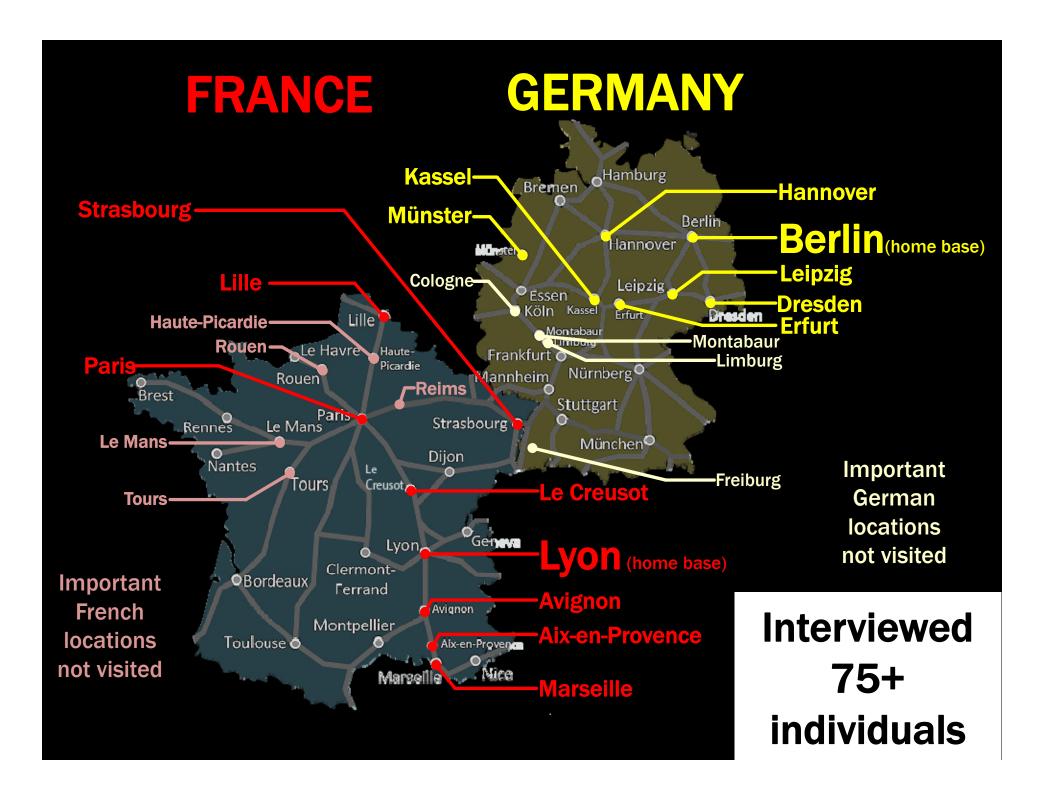








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 0
 100
 200
 300
 400
 500
 600miles



Urban area size < 1 million

400k - 999k ●

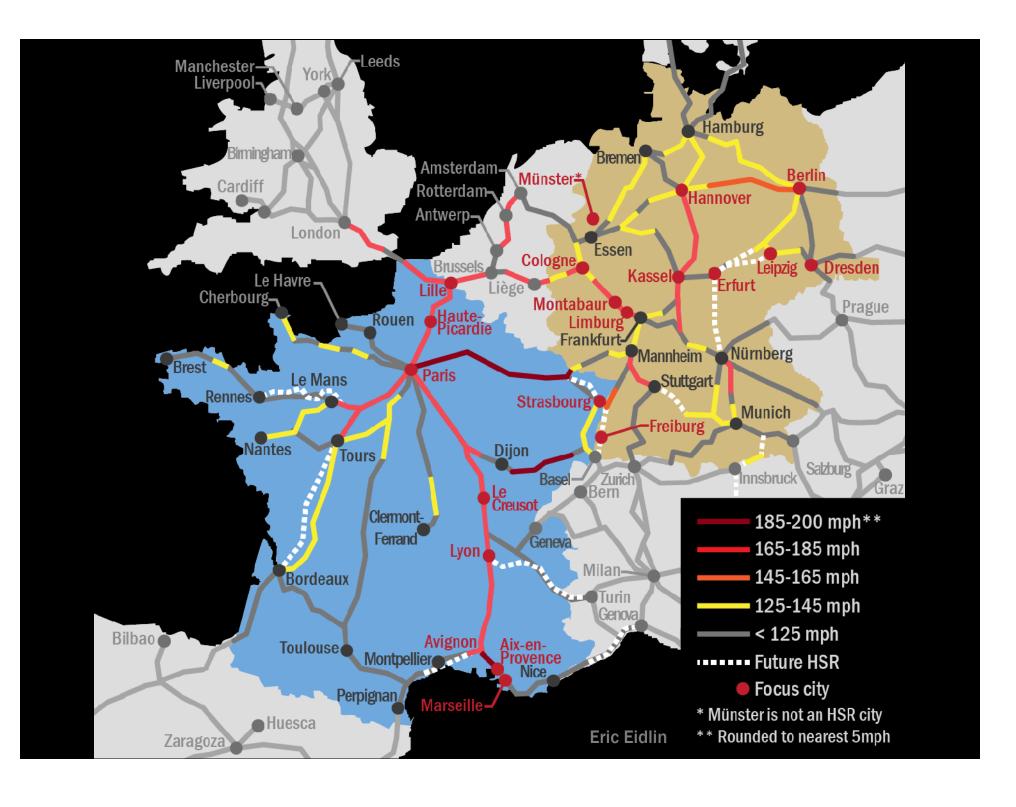


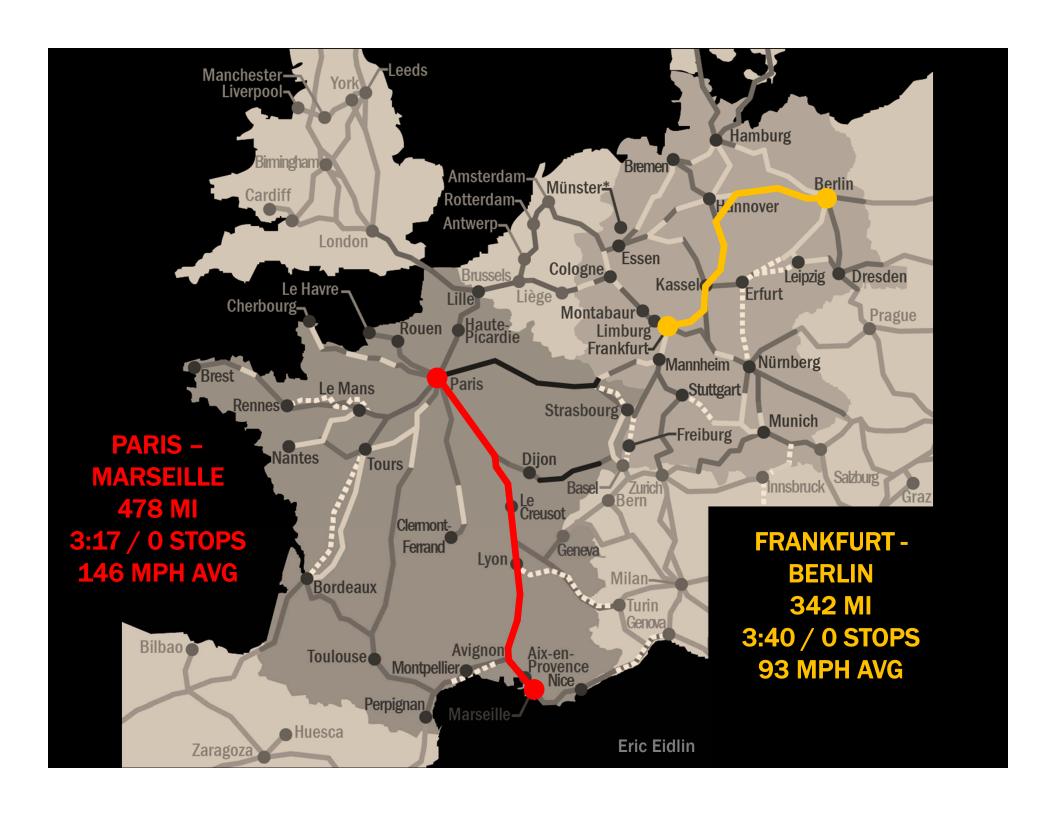
FRANCE

66 million inhab. 260,558 sq. mi. 302 people/ sq. mi.

Speed Versus Connectivity

High speeds should be prioritized in sparsely populated places, while maximizing connections should be primary concern in densely populated areas.





Paris Transit and HSR



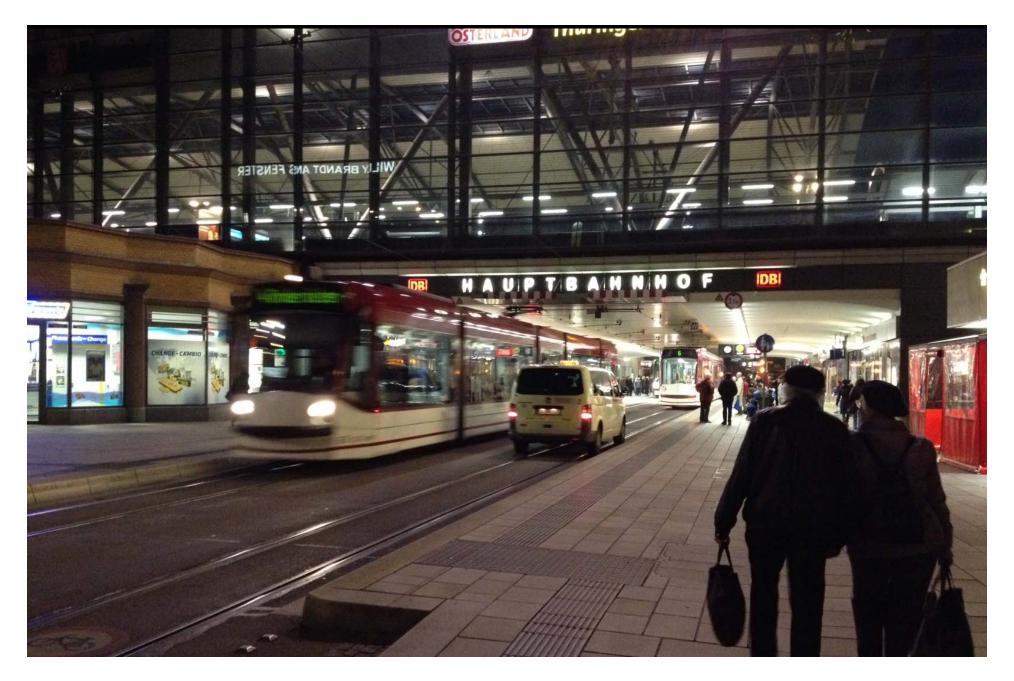


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Station Types

Central city stations maximize the economic development and mobility benefits of HSR.

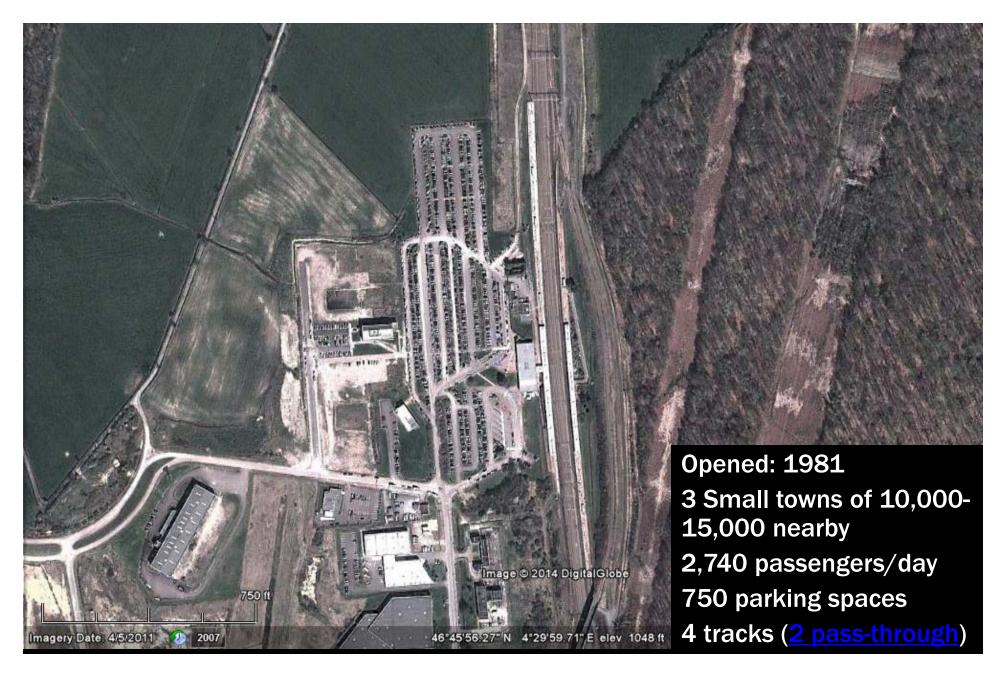


Central City - Erfurt



Central City - Erfurt





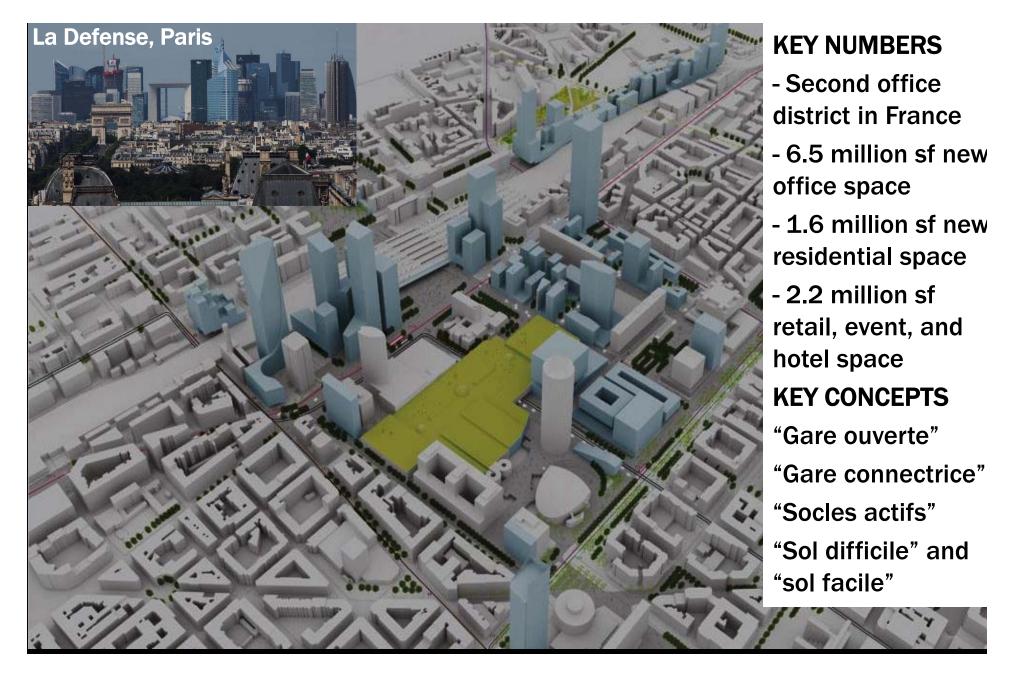
Exurban Station – Le Creusot

Station Area Land Use

High-density employment and commercial uses are best for HSR station districts.



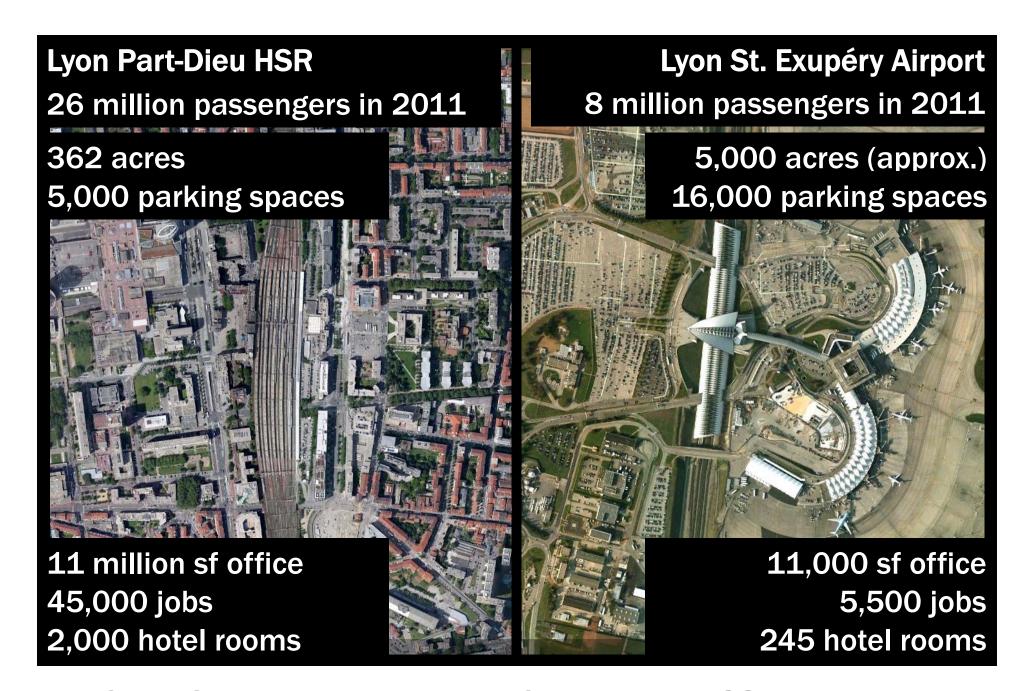
New Center City – Lyon Part Dieu



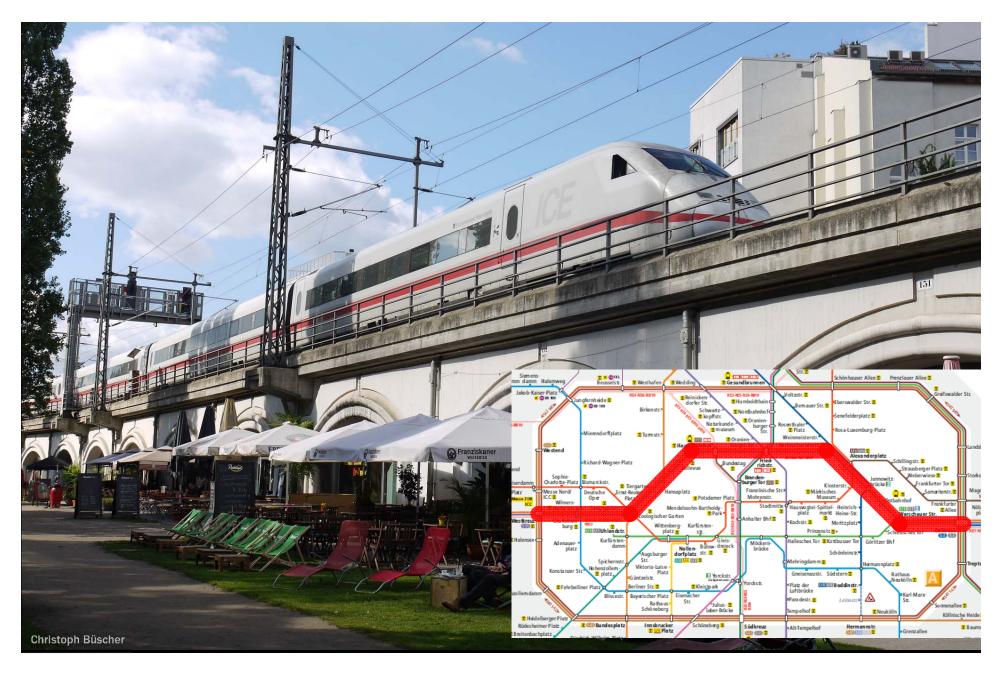
New Center City - Lyon Part Dieu

Station Design

HSR stations have inherent urban design advantages over other types of transportation facilities. California should recognize and take full advantage of these.



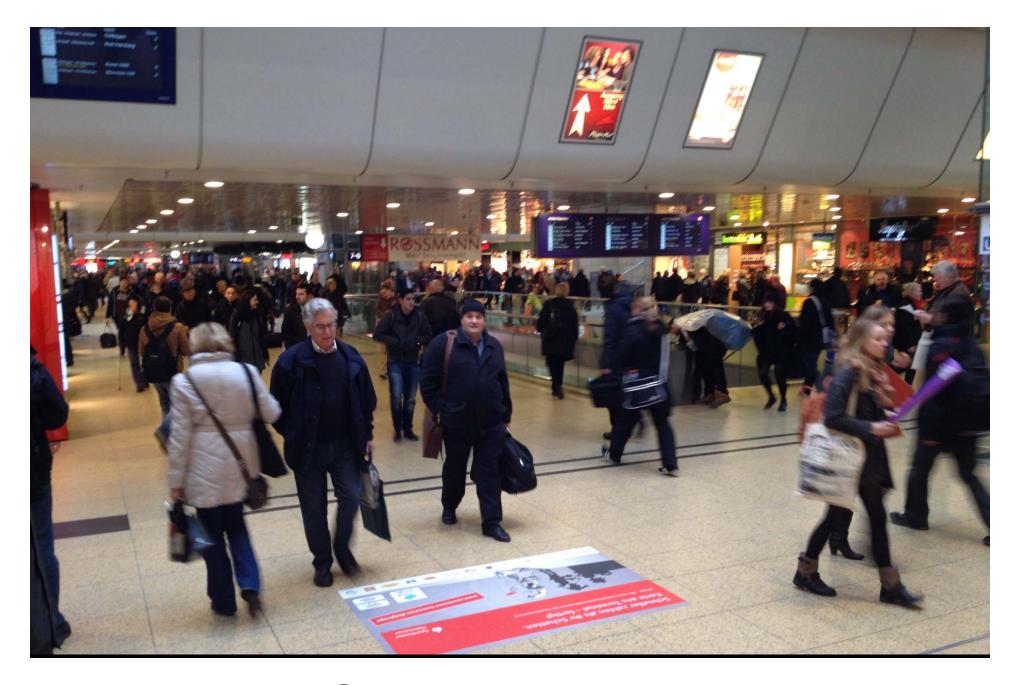
HSR Stations and Space-Efficiency



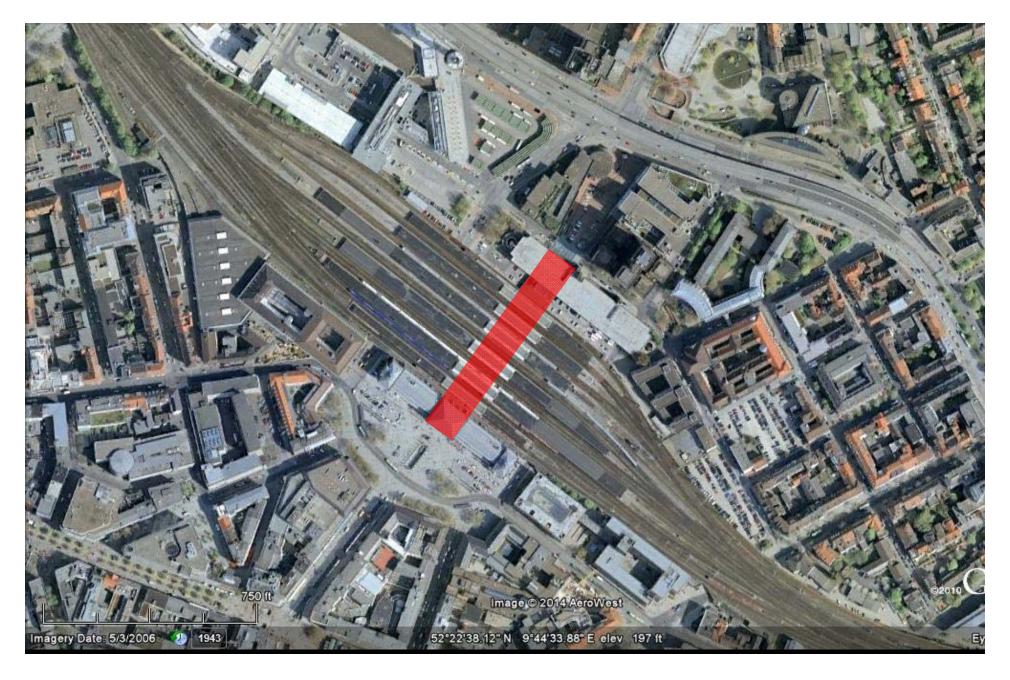
Compatibility with Dense Cities

Station Design and Land Use

HSR stations should celebrate their non-transportation functions.



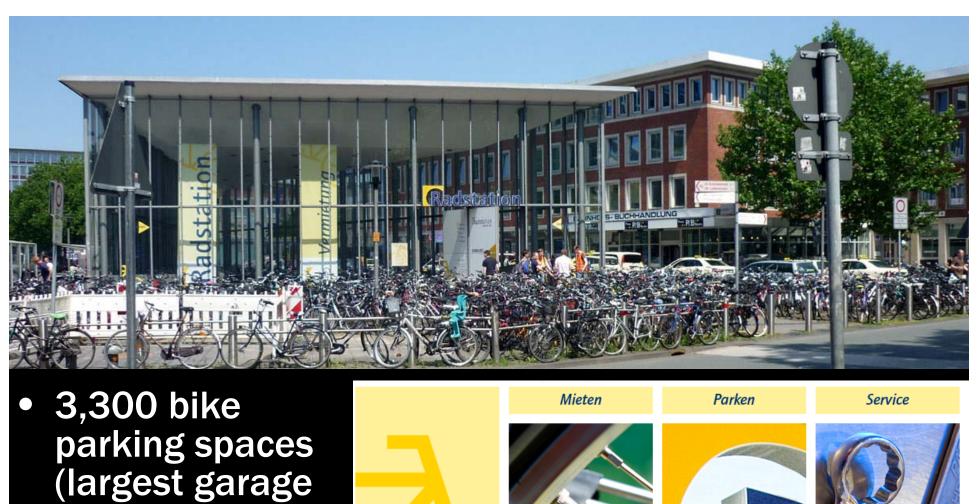
Downtown Station / Mall - Hannover



Hannover Main Station

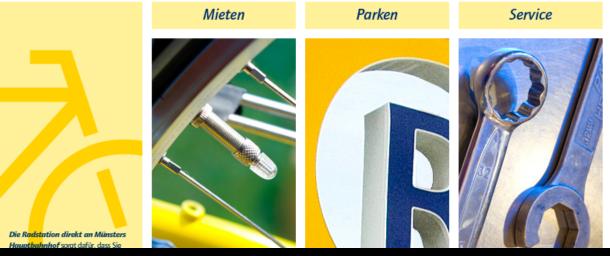
Space-Efficient Access Modes

Access to stations by spaceefficient modes of transportation,
including walking, transit, bicycling,
taxi and carshare should be
prioritized.

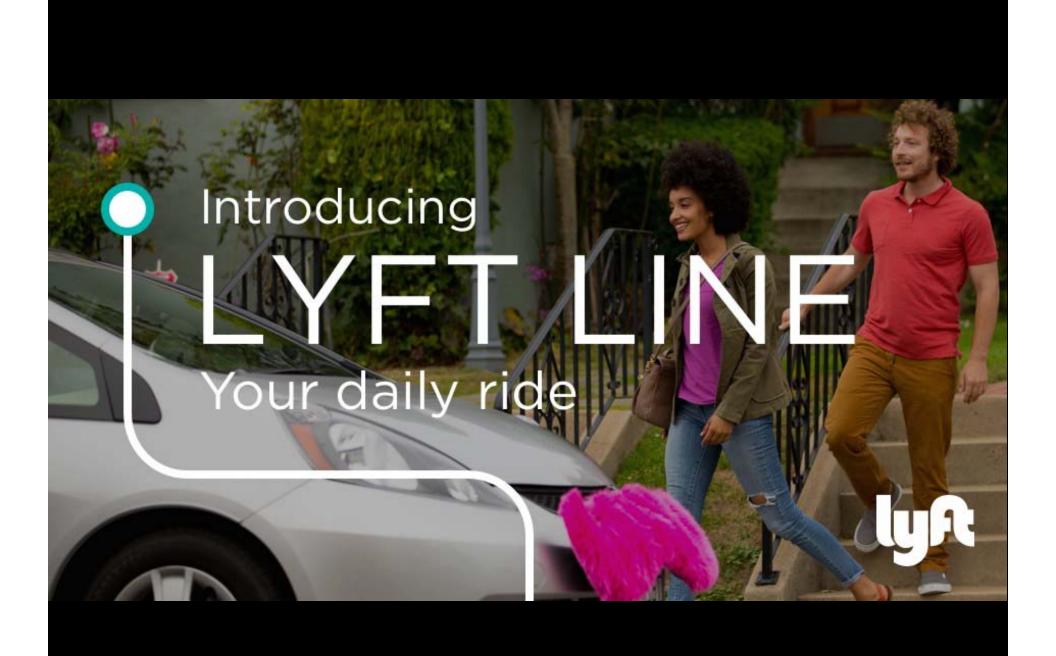


in Germany)

Importance of intermodalism

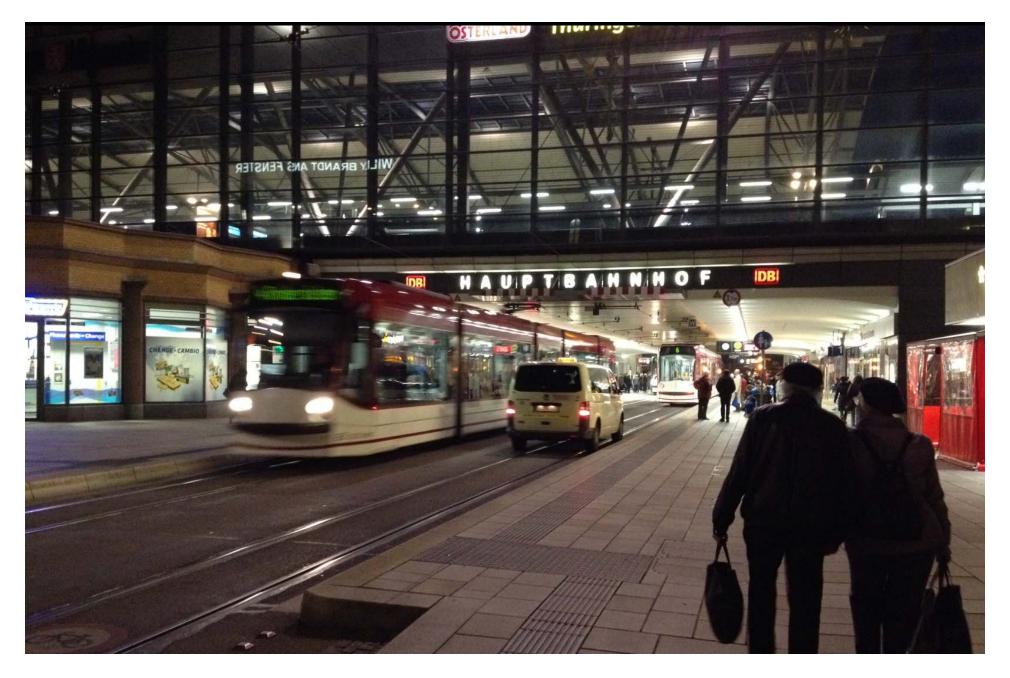


Münster Bike Station



Intermodal Connections

Within HSR stations, first-rate intermodal physical connections between HSR and non-auto access modes are essential.



Seamless Connections - Erfurt



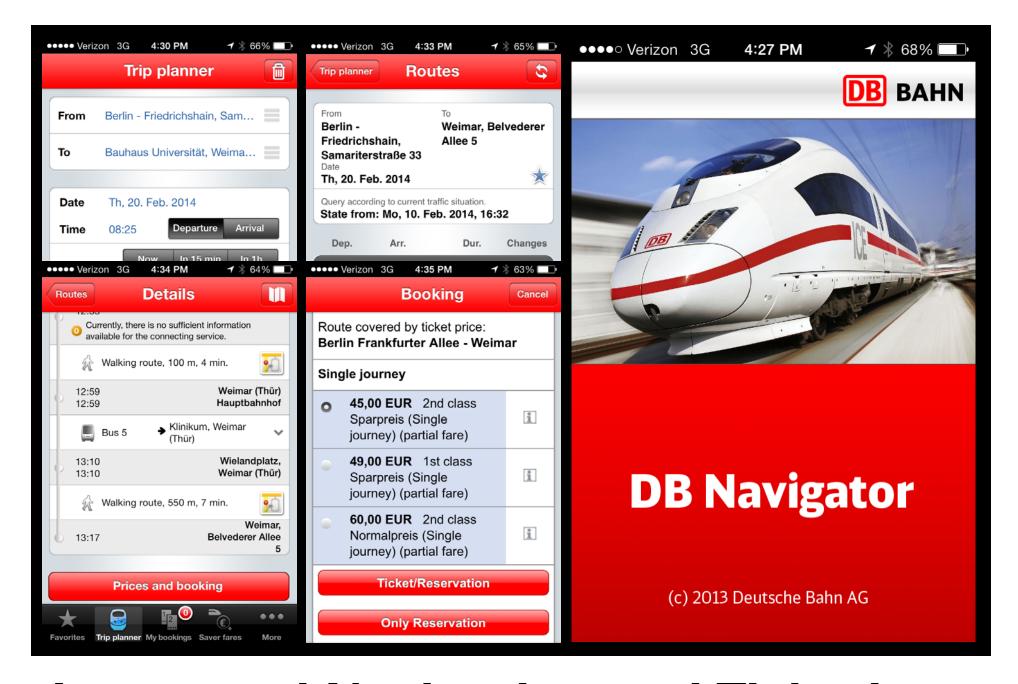
Blended Stations

Intermodal Connections and Payment Systems

It should be easy to pay to use sustainable and space-efficient local access modes to HSR stations.



Mobility Services



Integrated Navigation and Ticketing

Conclusions







HSR can be transformational in terms of development.

Most of California's planned HSR stations are in places that are centrally located, have significant development potential, and are anticipating rapid population growth.

California's HSR system will not mature for many decades. The way in which we travel in 50 years will likely be different from the way in which we travel today.

Opportunities/Challenges for California



It is essential to articulate vision for project first and then figure out how to realize vision within constraints.





Powerful champions who can forcefully advocate for the their visions for HSR stations and station areas are essential.



Carefully-conceived phasing plans that will foresee how station areas will evolve over time into more urban, compact, and economically dynamic places are essential.



Each station area should establish a cross-cutting governance entity (such as a joint powers authority) to lead station and station area design efforts as early in the design process as possible.

The Importance of Vision

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