



CALIFORNIA
High-Speed Rail Authority

STATION AREA PLANNING VISION & GOALS

Melissa DuMond, AICP, Director of Planning and Integration
Board Meeting: Agenda Item 4
October 6, 2015
Sacramento, CA



HIGH-SPEED RAIL STATIONS: Vision & Goals

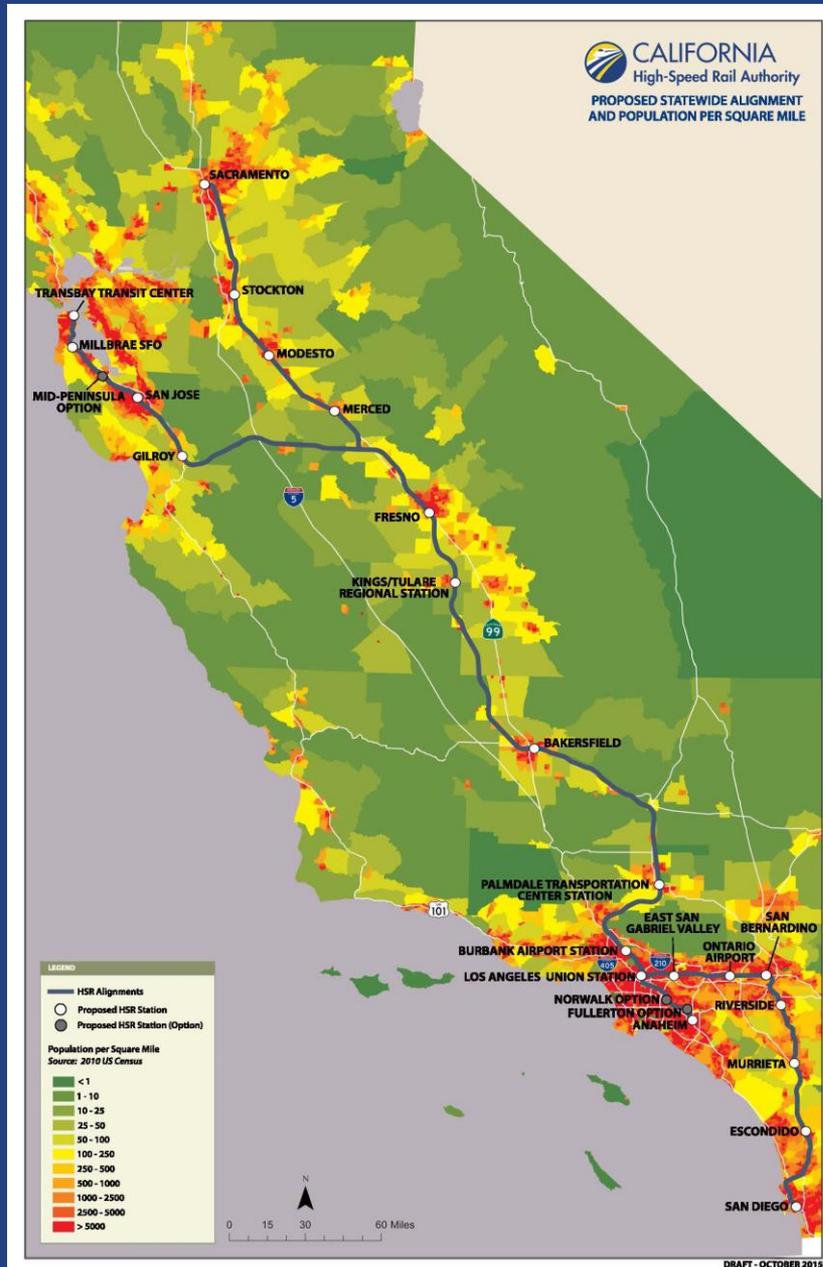
- **Vision:**

- » Transform Cities & Create Community Hubs
- » Part of an Enterprise
- » Iconic

- **Goals**

- » Achieve Sustainable Development (SB 375)
- » Reduce Greenhouse Gas Emissions (AB 32/Executive Orders)
- » Maximize System Performance
 - Financial & Operational
- » Create Economic Engine for Communities

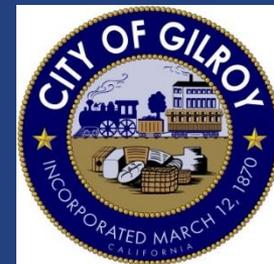
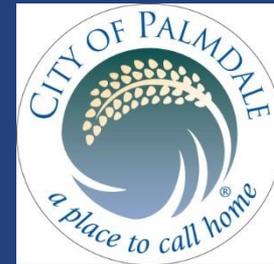
HIGH-SPEED RAIL: Station Communities



STATION COMMUNITIES: Working with Our Partners

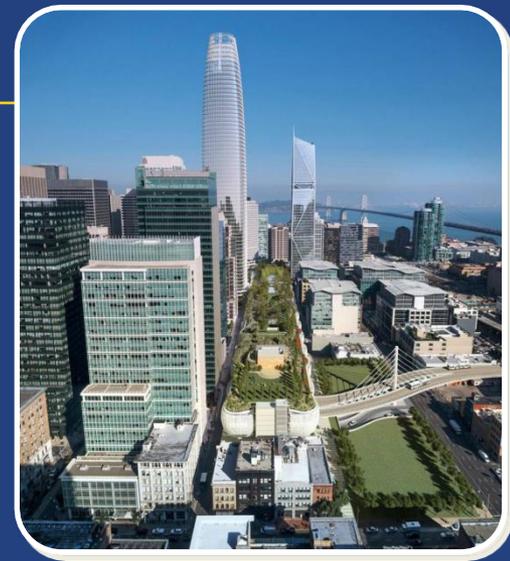
- Executed Station Area Planning Agreements
 - » Merced
 - » Fresno
 - » Bakersfield
 - » Gilroy
 - » Palmdale

- Provides:
 - » Market and Financial Analyses
 - » Governance
 - » Development Scenario Analysis
 - Private Investment Potential
 - » Implementation Planning



HIGH-SPEED RAIL: Transform Cities

- **Ties Economies Together**
 - » San Jose to Fresno = 50 Minutes
 - » Bakersfield to Los Angeles = 60 Minutes
 - » San Francisco to Los Angeles = 2 Hours 40 Minutes
- **Connects With and Reinforces Local Mobility**
- **Foundation for Sustainable Growth**
- **Opportunities for Revitalization in Downtown Cores**



STATION COMMUNITIES: Opportunities & Challenges

- **High-Speed Rail Stations Will:**

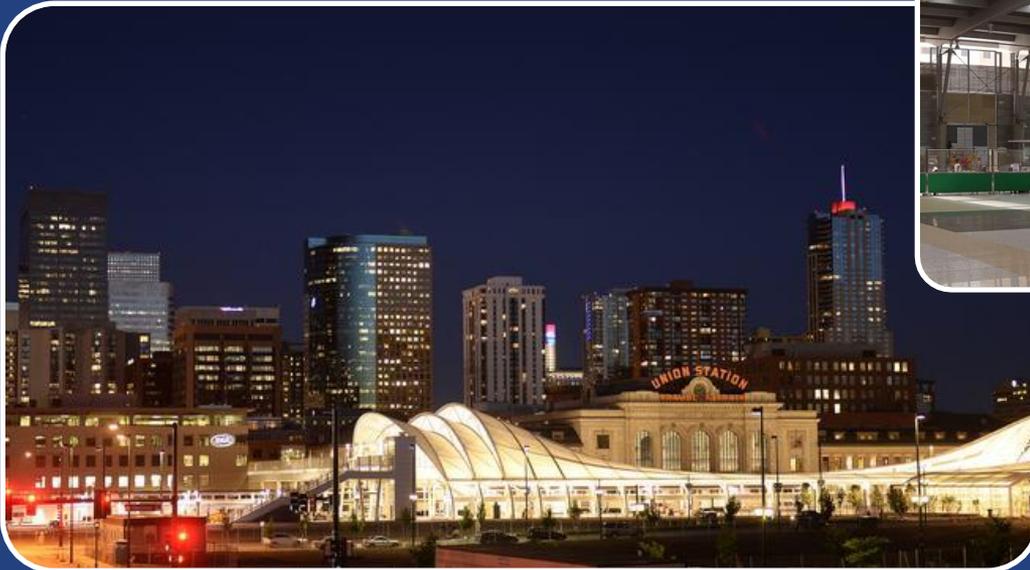
- » Maximize System Performance
- » Achieve Sustainable Development and Reduce Greenhouse Gas Emissions
- » Create Value in Communities

- **Challenges:**

- » Land Use
- » Financing
- » Early Investments
- » Development Potential

STATION COMMUNITIES: Around the World

- **Comparable to Other High-Speed Rail Stations:**
 - » Kanazawa, Japan
 - » Málaga, Spain
- **Comparable to Other Rail Stations:**
 - » Denver, Colorado





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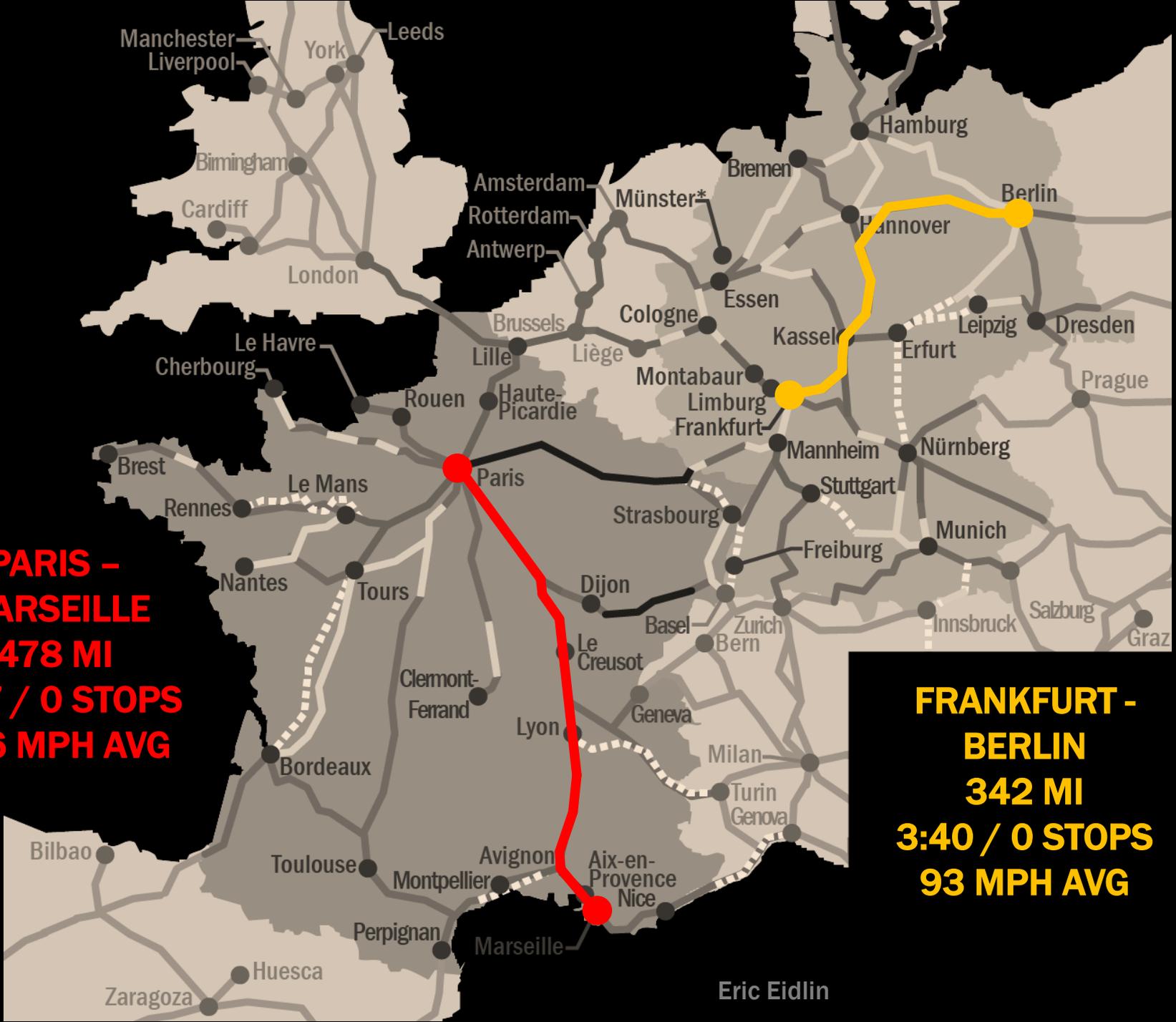
ERIC EIDLIN

Federal Transit Administration

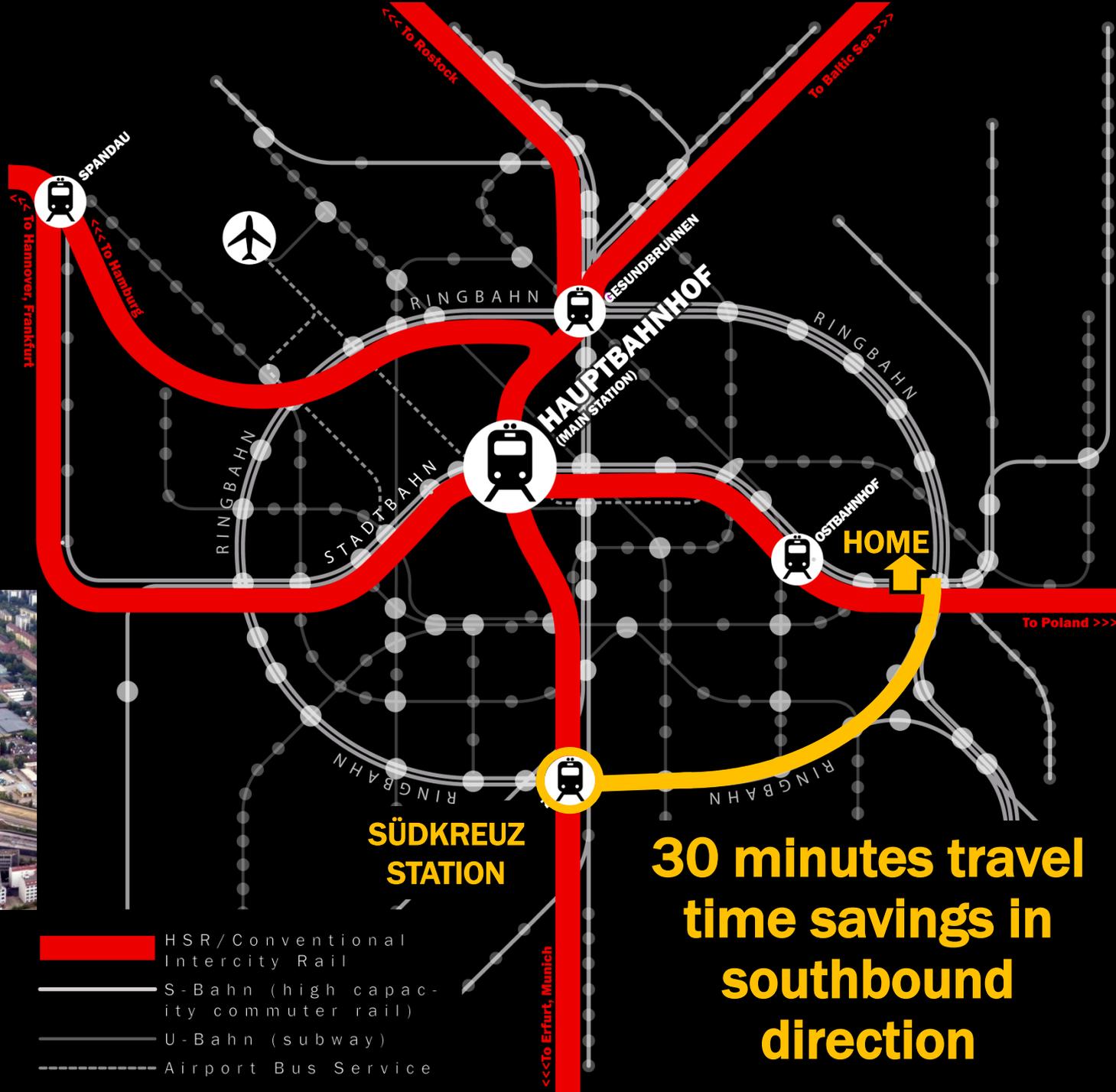


**PARIS -
MARSEILLE
478 MI
3:17 / 0 STOPS
146 MPH AVG**

**FRANKFURT -
BERLIN
342 MI
3:40 / 0 STOPS
93 MPH AVG**



Berlin Transit and HSR



- HSR/Conventional Intercity Rail
- S-Bahn (high capacity commuter rail)
- U-Bahn (subway)
- Airport Bus Service

30 minutes travel time savings in southbound direction



Hannover Main Station

The Multiple Roles of Stations



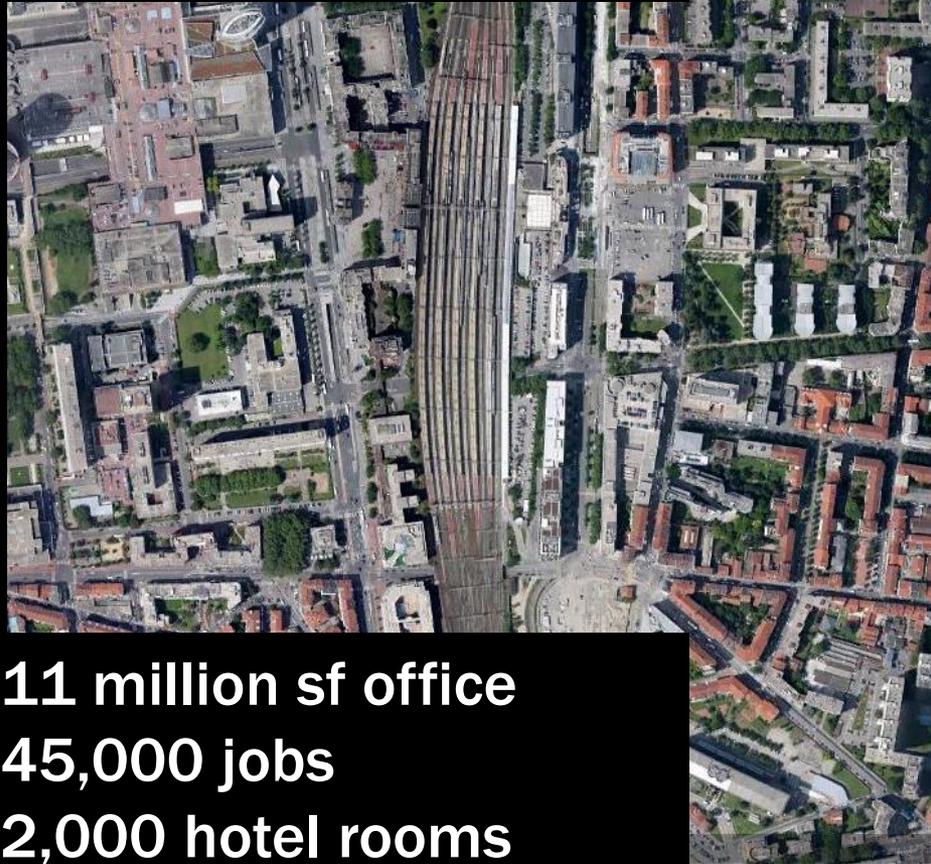
The Multiple Roles of Stations

Lyon Part-Dieu HSR

26 million passengers (2011)

362 acres

5,000 parking spaces



11 million sf office

45,000 jobs

2,000 hotel rooms

Lyon St. Exupéry Airport

8 million passengers in 2011

5,000 acres (approx.)

16,000 parking spaces



11,000 sf office

5,500 jobs

245 hotel rooms

HSR Stations and Density



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SUZANNE HAGUE

Strategic Growth Council



Infill-Oriented Future Development



142,800 fewer annual
pollution-related health
emissions (7 fewer
incidences)



✓ **State climate targets**



Local economic stability
\$1.5B in infrastructure savings
\$32B saved in annual
maintenance costs



Household saving
3,750 square miles saved
miles traveled (VMT)
from development

New Tools and Strategies for Infill Development in Station Areas (& beyond)

Diridon Station, San Jose



Palmdale Transportation Center

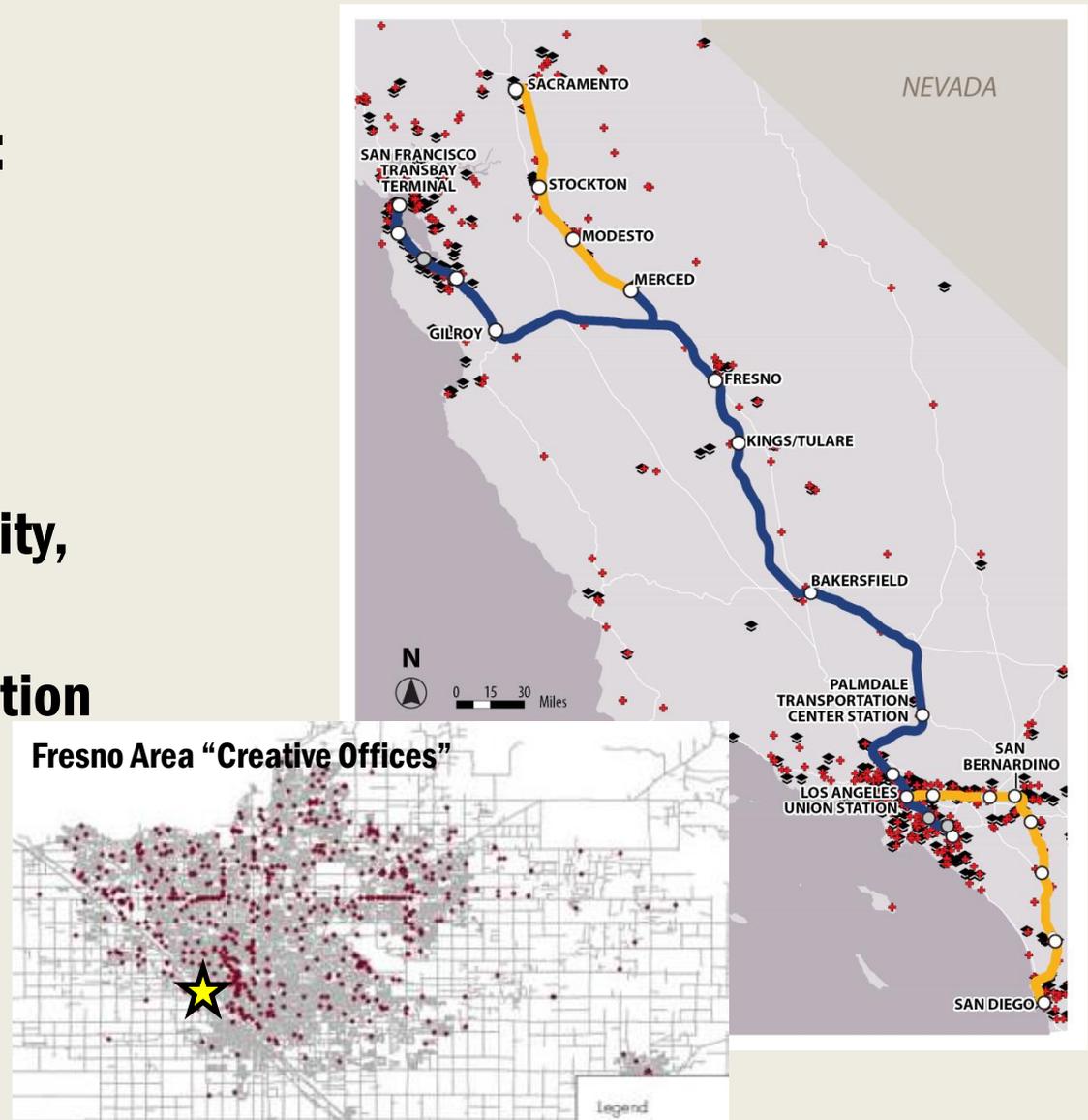


Ideas under construction...

- **Funding and financing for development**
 - Credit enhancement
 - Public-private / Leveraged infill fund
- **Infrastructure financing**
 - “Horizontal” infrastructure
 - Place-making infrastructure
- **State real property assets**
 - Department of Government Services
 - High-Speed Rail Authority
- **Incentives for SB 375 implementation**
- **Technical assistance**

Engaging Regional Economic Engines

- **Anchor Institutions:**
“Eds and Meds”
- **Creative Industries**
- **Opportunities:**
 - **Visibility, connectivity, access**
 - **Proximity / Co-location**
 - **Service hub**
 - **Inter-regional partnerships**





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High-Speed Rail Authority

MEG CEDEROTH

Sustainability Manager



SUSTAINABLE STATION COMMUNITIES

- Sustainability Opportunities Beyond the Building
 - » Zero-Net Energy – Net Energy Positive
 - » Transit-Oriented Infill Development
 - » Resilient Infrastructure
 - » Renewable Electricity



CUSTOMER EXPERIENCE AT STATIONS

- High-Speed Rail Station Criteria Under Development:
 - » Universal Access
 - » Security Measures
 - » Positive User Experience
 - » Operational Efficiency
 - » Aesthetics
 - » Multi-Use
 - Pedestrians
 - Bicyclists
 - Accommodate Long Distance Travelers



APPLYING INNOVATION

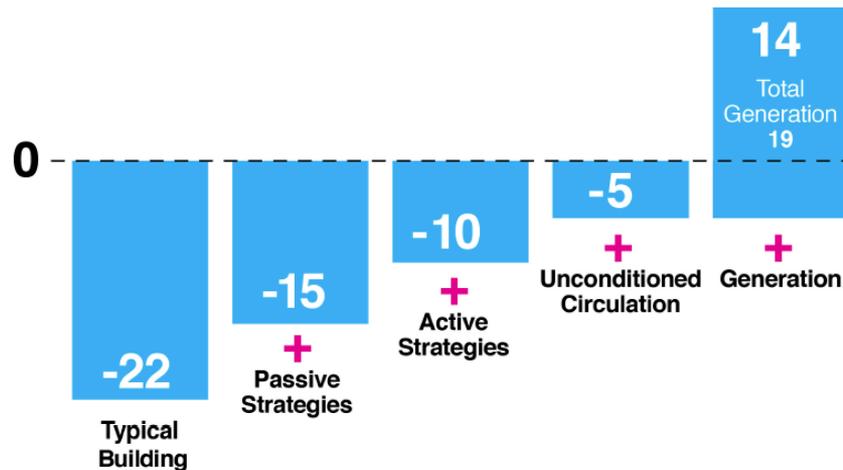


PROGRESS TOWARD SUSTAINABILITY

- Sustainability Policy
- High-Performance Design Criteria
 - » LEED Platinum
- District-Scale Planning
 - » Scaling Sustainability to a Higher Level
 - » Developing A Playbook For All Station Communities

Energy

Results



HIGH-SPEED RAIL: Station Animation

NEXT STEPS

- **Development of Policy Focused on Stations**
- **Continue to Work with Communities**
 - » Station Area Planning Funding Agreements
 - » Development Opportunities
- **Define Station Identity**