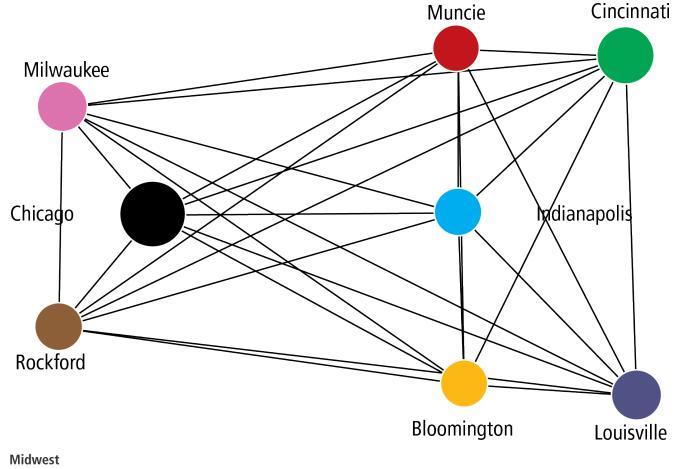
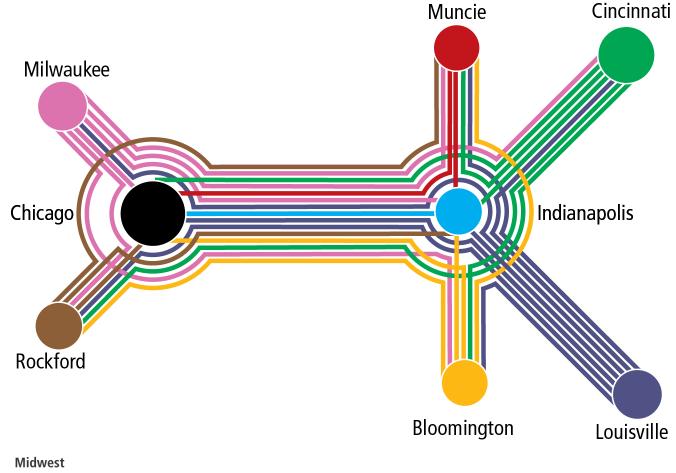
## **Herding Many Cats**





## **Networks, Many Paths to Success**





## **2018 California State Rail Plan** Connecting California



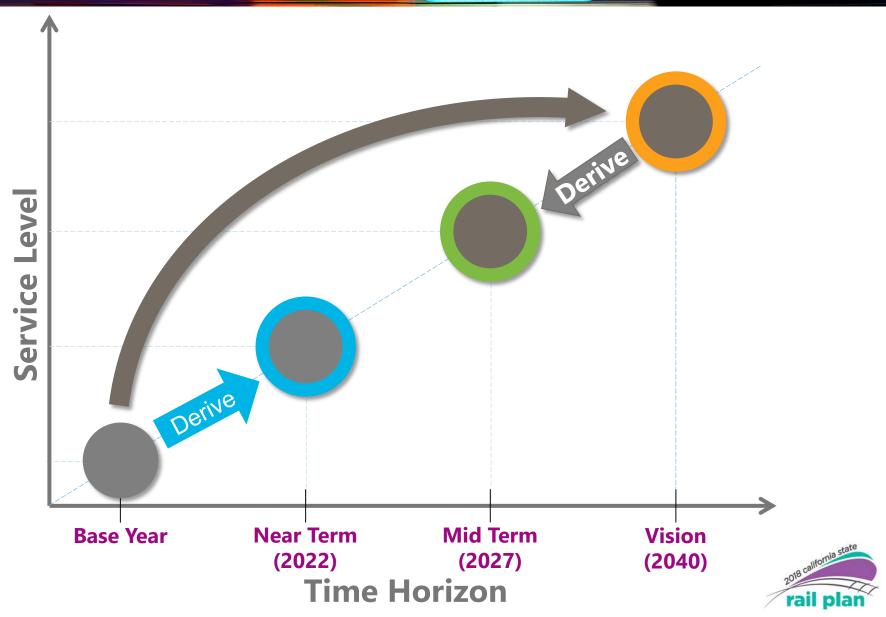
#### **California Rail Services: Both Regional and High Speed**







#### **Investment Strategy: Phasing of the Vision Plan**



## 2040 Vision for Passenger Rail

## » Integrated Statewide Network

- » High Speed Rail
- Intercity and Regional Services
- » Integrated Express Bus

#### » Coordinated Schedules

- » Regular pulsed service
- » Key transfer hubs
- Public Transit
  Connections

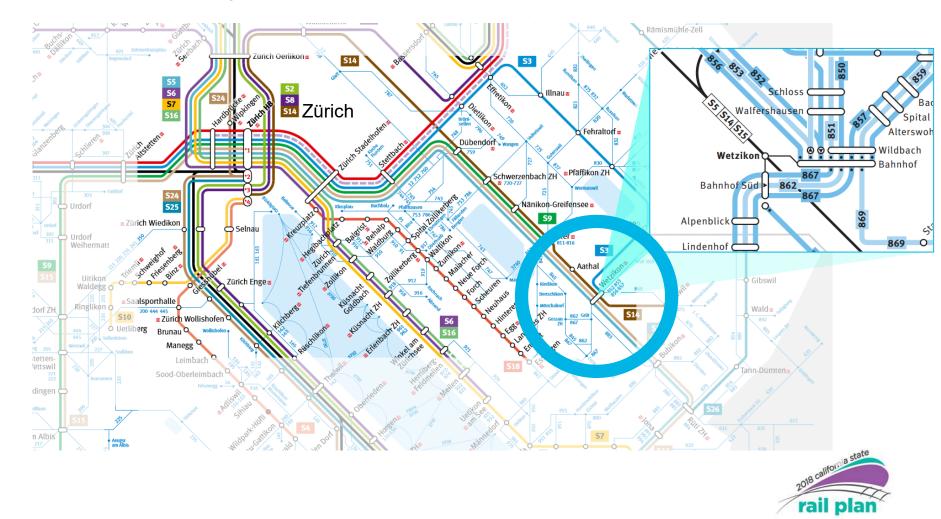
#### » Customer Focus

- » Seamless First/Last-Mile Access
- » Integrated Ticketing
- » Auto and air competitive



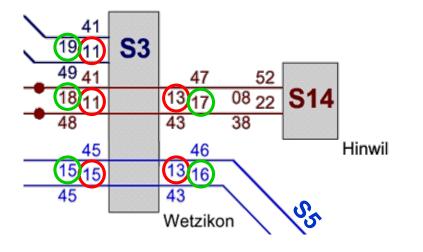
#### **Example of an Integrated Network - Wetzikon**

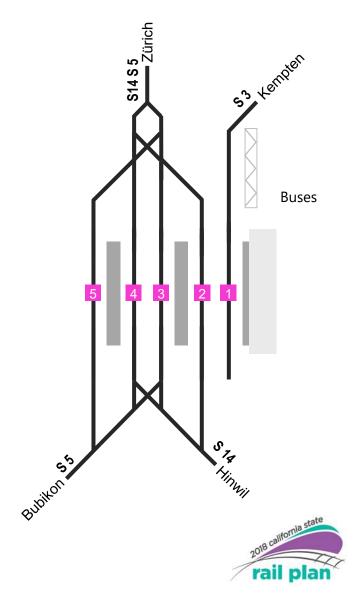
#### – Network Map



#### **Example of an Integrated Network - Wetzikon**

- 1. Buses arrive in advance of the trains
- 2. Trains arrive in the station
- 3. All services are in the station
- 4. Trains depart from the station
- 5. Buses depart from the station





## **Comparing Metrics – Existing v. 2040**



All costs are in 2015\$

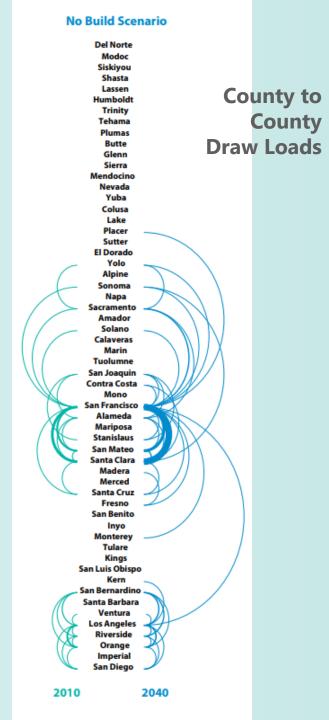
### **Driving Operating and Maintenance Costs Down**





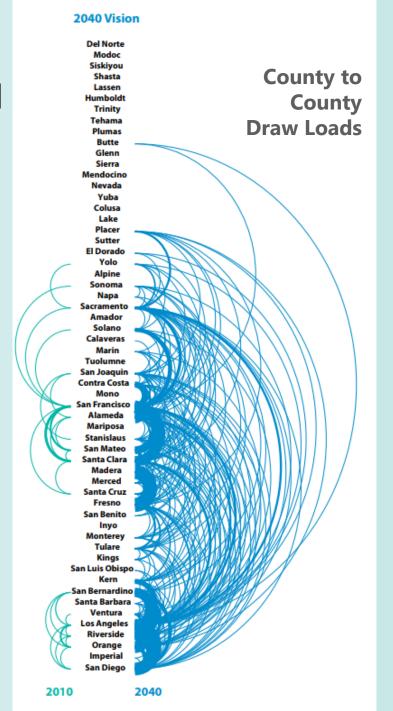
## **Rail Plan Vision: Ridership**

- » Results show moderate increase in rail ridership demand due to population growth
- » However, market
  potential for networked
  services is unrealized

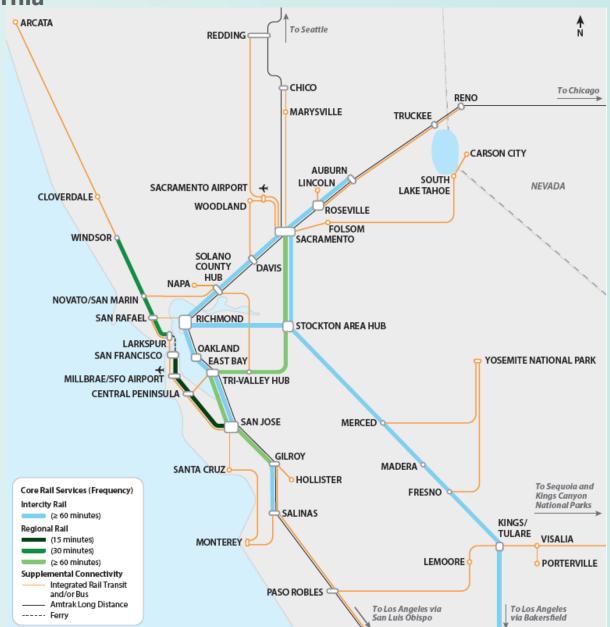


## Rail Plan Vision: Ridership – Market Potential

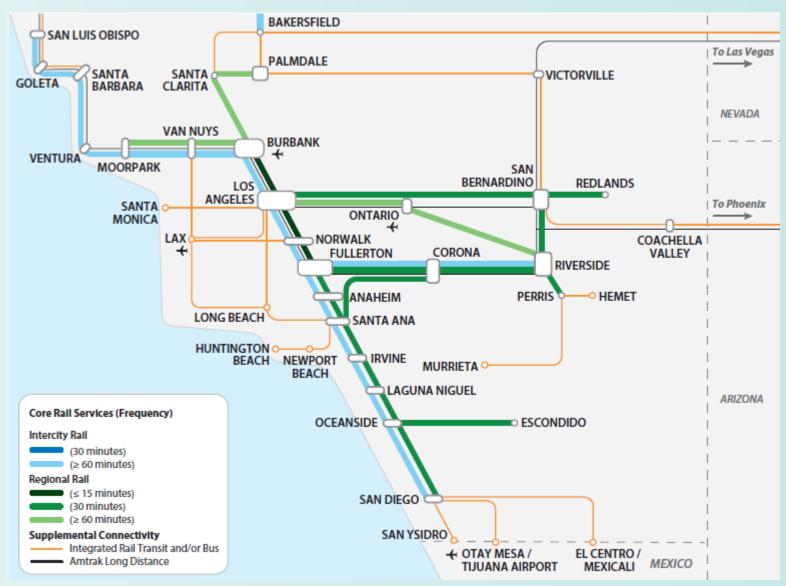
- » Result of integration and HSR shows huge increase in rail ridership demand
- » Satisfies a large market potential for networked services



#### **2022 Vision:** Northern California



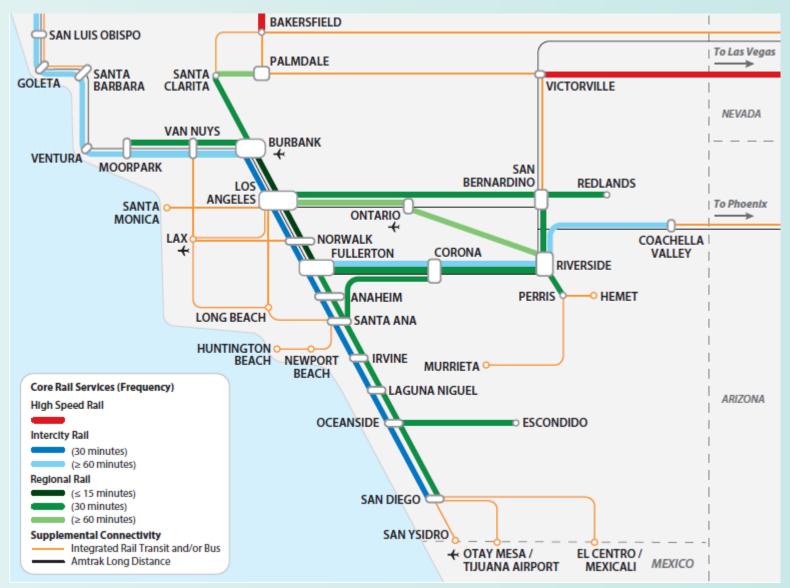
# **2022 Vision:** Southern California



#### **2027 Vision:** Northern California



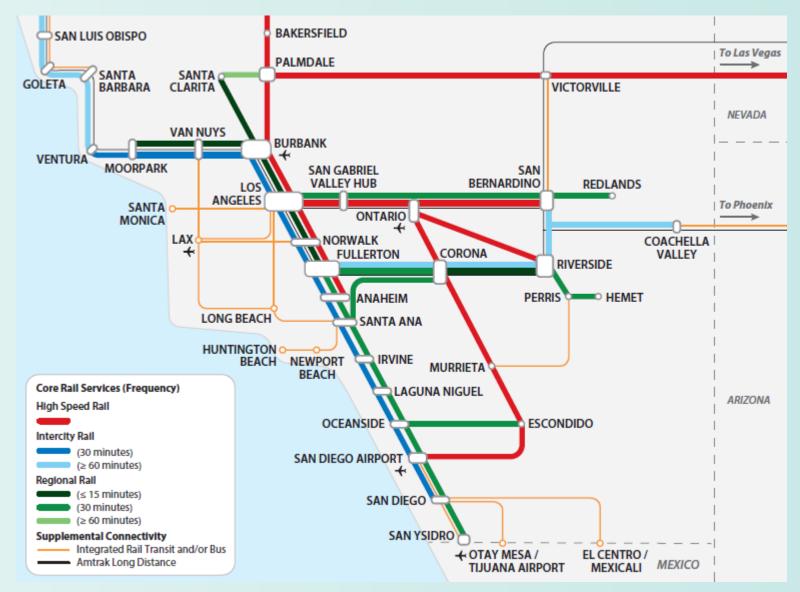
# **2027 Vision:** Southern California



#### **2040 Vision:** Northern California



## **2040 Vision:** Southern California



### State Public Transportation Account

- Intercity Rail Operating, Equipment and Administration (from 2.375% diesel sales and use tax)
- State Transit Assistance (STA) (4.125% diesel sales and use tax)

## • Local Transportation Fund for Transit (0.25% general sales tax)

## State Transportation Improvement Program

- Interregional (rail minimum 15% of state 25% share)
- Regional (75%, sometimes partnered with interregional)

## Transit and Intercity Rail Capital Program

- 10% Cap and Trade Auction Proceeds (continuous; amount varies)
- One-Time Budget Appropriations (\$144 million in 2016)
- High Speed Rail Funding (see 2016 Business Plan for details)
- Local Measure Funding (most between 0.25% and 2% general sales tax, with a portion to transit)
- Federal Grants and FTA Formula Funds



### New Funding in 2017

#### **SB 1 of 2017**

- Augments STA, STIP and TIRCP, Commuter/Intercity
  - ▶ 3.5% diesel sales and use tax for transit (\$3.1B over 10 yrs.)
  - 0.25% diesel sales and use tax for commuter rail (\$220M over 10 yrs.)
  - 0.25% diesel sales and use tax for intercity rail (\$220M over 10 yrs.)
  - About \$1.1 billion in new STIP capacity over 10 years
  - \$25-175 per year Transportation Improvement Fee (per vehicle; indexed)
    - \$105 million (indexed) to Transit SGR (\$1.2B over 10 yrs.)
    - ▶ \$245 million (indexed) to TIRCP (\$2.7B over 10 yrs.)
  - \$236 million one-time funding to TIRCP from debt repayment
- Solutions for Congested Corridors Program (\$250 million/yr)
- Trade Corridor Enhancement Account (10 cents per diesel fuel gallon (CPIindexed); about \$3 billion over first 10 years)

