

# 2021 Sustainability Report

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# 2021 SUSTAINABILITY REPORT

Summary of environmental, social, and economic/governance information



Everyone at the Authority helps deliver sustainability.  
This year's focus is on how the system contributes to building an equitable future.

“The Authority will deliver a sustainable high-speed rail system for California that serves as a model for sustainable rail infrastructure. The Authority has developed and will continue to implement sustainability practices that inform and affect the planning, siting, designing, construction, mitigation, operation, and maintenance of the high-speed rail system.”

*From #HSRA 19-02 Revised Sustainability Policy*



# AUTHORITY ESG REQUIREMENTS IN CONTRACTS

Since CP1, the Authority has used procurement to progressively advance ESG issues



## Environment

- Requirements for Tier IV and ZEV vehicles and equipment
- Requirements for 100% concrete and steel recycling
- Requirements for environmental quality disclosure for concrete and steel
- Requirements for site environmental staff
- Requirements to use renewable energy
- Water conservation requirements
- Carbon budget for TS contract



## Social

- 30% Small Business Participation
  - 10% DBE
  - 3% DVBE
- Health and Safety : Zero Harm
- Targeted Hiring
- Community Consultation, Engagement and Participation: required notice to local jurisdictions

Also

Development of skills and employment opportunities through apprenticeship training



## Governance

- Required to provide ESG reports (corporate social governance, corporate sustainability policies, and other)
  - Transparency and Accountability: required reporting from contractors on a monthly basis against ESG issues
  - Requiring ESG reporting from contractor's suppliers
- Required Certifications:
- No operations or contracts in Iran or Darfur
  - No suspensions or disbarment
  - No collusion
  - Equal Opportunity employer
  - Non-discrimination



# ENVISION AWARD

Illustrates Authority progress and exceptional achievement

- Achieved the highest possible award: **Platinum**
- Detailed documentation across **64 issue areas**
- Demonstrates **global best practice**



# CALIFORNIA SETS SUSTAINABILITY STANDARDS

The Authority relies on Board leadership to set priorities while delivering California public policy



**300,000 MT  
Carbon Sequestered  
and Avoided**



**6,000  
Dispatched  
Workers**



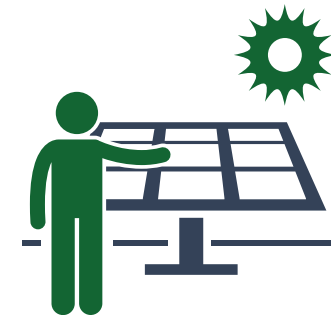
**\$4,000,000,000 in  
Disadvantaged  
Communities  
Investment**



**180,000 lbs.  
Criteria Air Pollution  
Avoided**



**626  
Small Businesses  
Engaged**

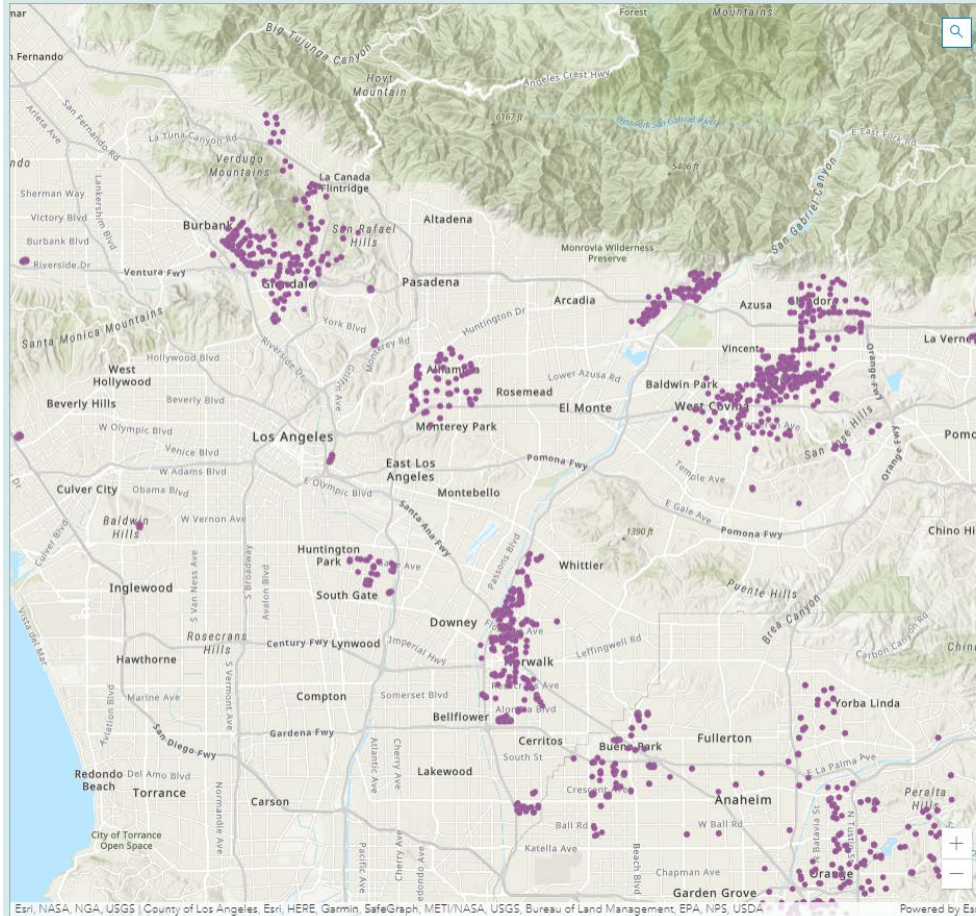


**100% Renewable  
Energy**

# BALANCING OUR CONSTRUCTION EMISSIONS

Avoiding and sequestering greenhouse gas emissions through tree planting

High Speed Rail Urban Trees Trees planted by HSR partners since 2019



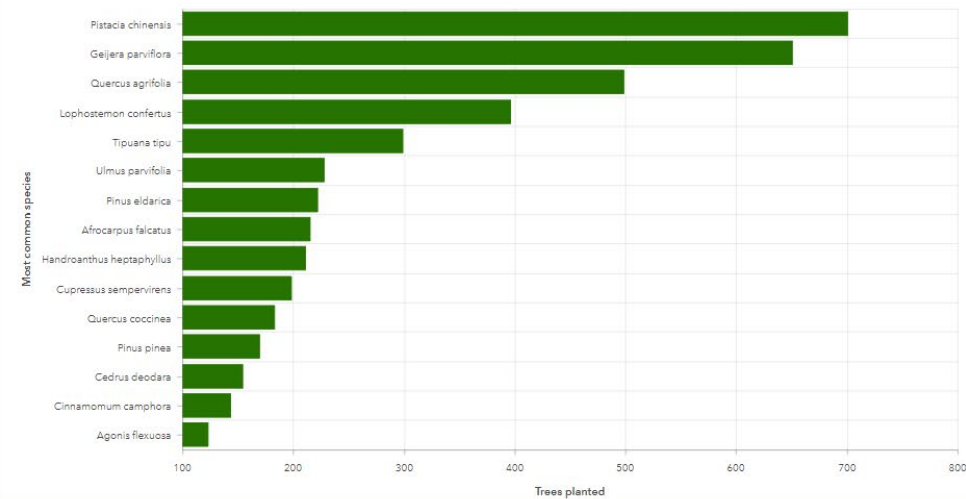
Eco benefits over 40 years

Trees  
5,979  
planted

GHGs  
22,098.5 t  
removed

Stormwater  
182,099,900 gallons  
intercepted

Air pollutants  
210,597.4 lbs  
removed



More than 7,100 trees planted in disadvantaged communities statewide.



# NATURAL RESOURCES

Working with state partners to deliver on mitigation promises

Habitat and agricultural land preservation also delivers climate benefit

**2,320 acres**

Habitat Preserved  
and Restored

**3,096 acres**

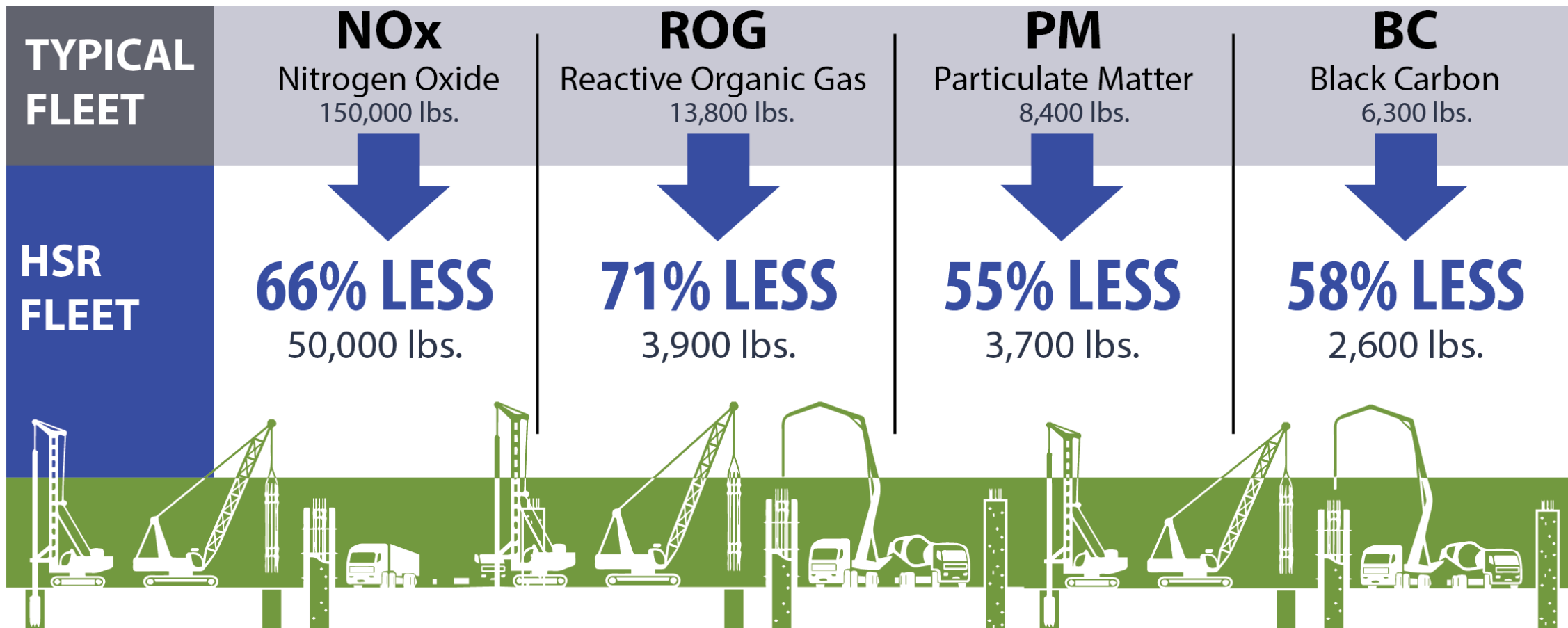
Agricultural Land  
Secured





# PROTECTING COMMUNITIES IN CONSTRUCTION

Best practice has avoided more than 180,000 pounds of pollution



# CLIMATE ADAPTATION PLAN



Is [on The Terminal](#) on the Program Delivery Office page. Look under “More Information.”



# ECONOMIC DEVELOPMENT AND GOVERNANCE

Contributing to California's economy and specifically to disadvantaged communities

## 6,200 Dispatched Workers

2,130



2,597



1,516



# ACCELERATE SUSTAINABILITY BENEFIT

Social, environmental, and economic benefit to all Californians



# 55%

**of project expenditures occurred in designated disadvantaged communities throughout California, spurring economic activity in these areas.**



More than 2500 workers live in disadvantaged communities.



# WHY SPEED MATTERS

Light trains with fast travel times inspire people to leave their cars and planes behind

In the first 50 years of operation:



High-speed rail provides direct and co-benefits important to the climate, local pollution, and energy.



# COMMUNITY RESILIENCE

High-speed rail bridges communities and restores historic connections



# HEALTHY & VIBRANT STATIONS

Shaded, naturally ventilated spaces that are easy to maintain



# SEAMLESS CONNECTIONS IN STATIONS

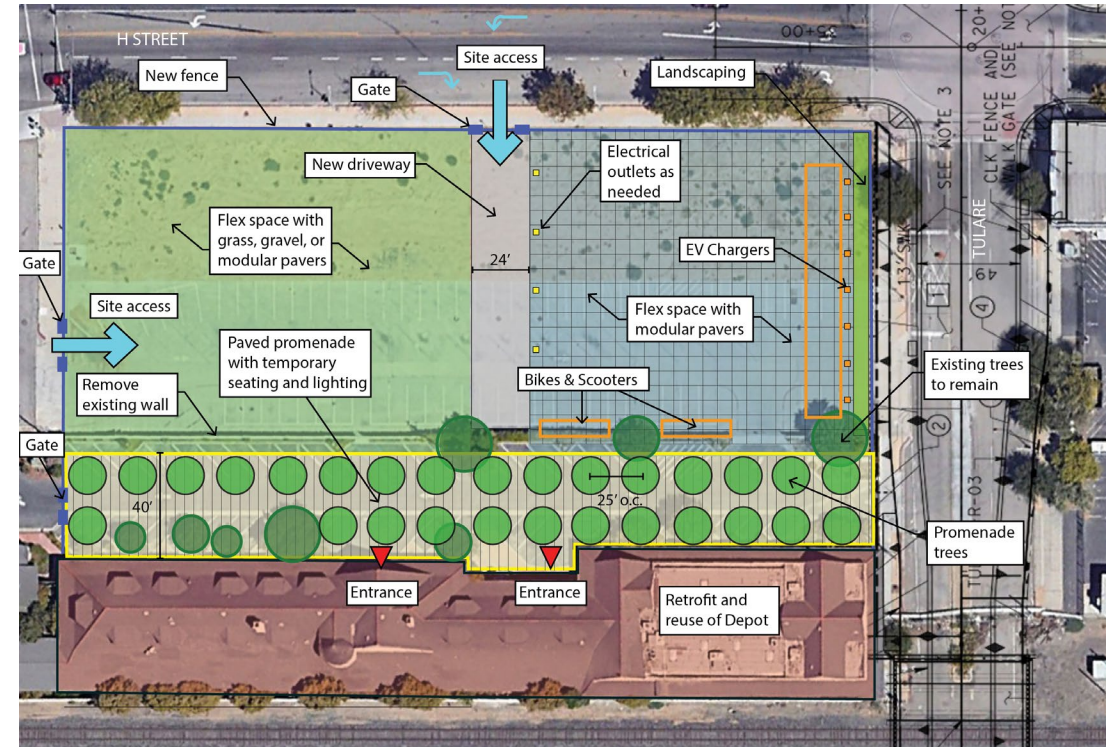
Safe, comfortable, easy to navigate facilities for passengers





# FRESNO EARLY SITE ACTIVATION

Working with local jurisdictions to bring activity to HSR locations in advance of service

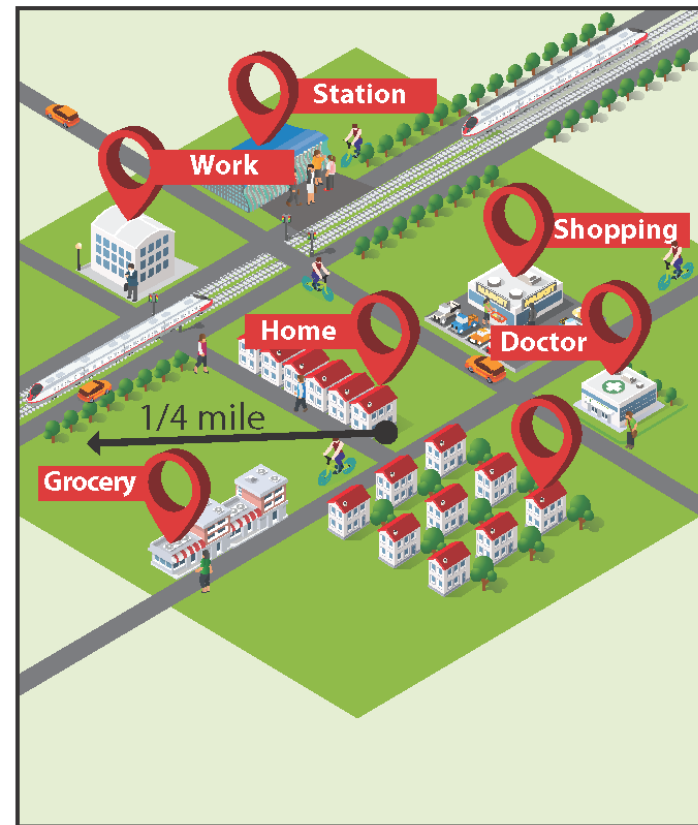
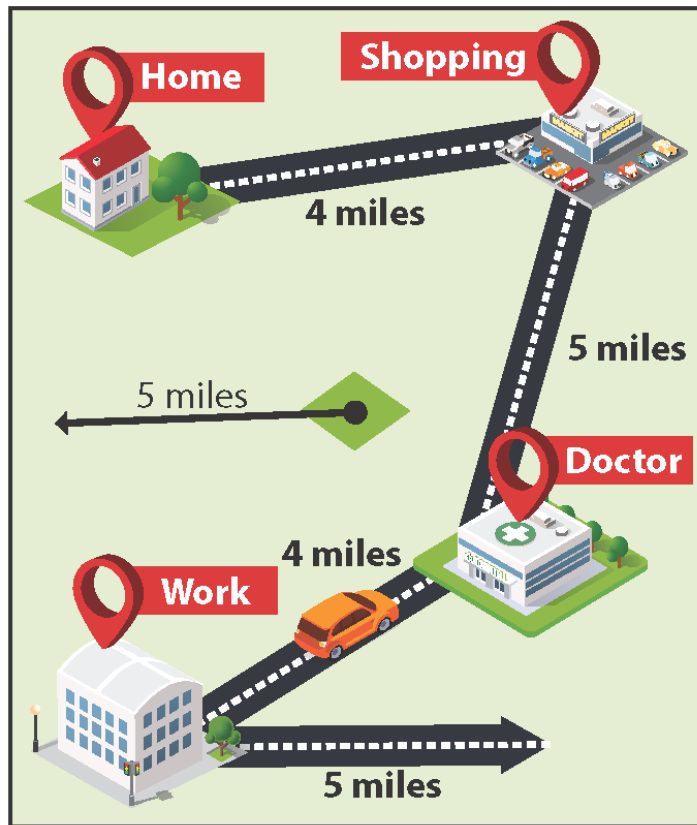
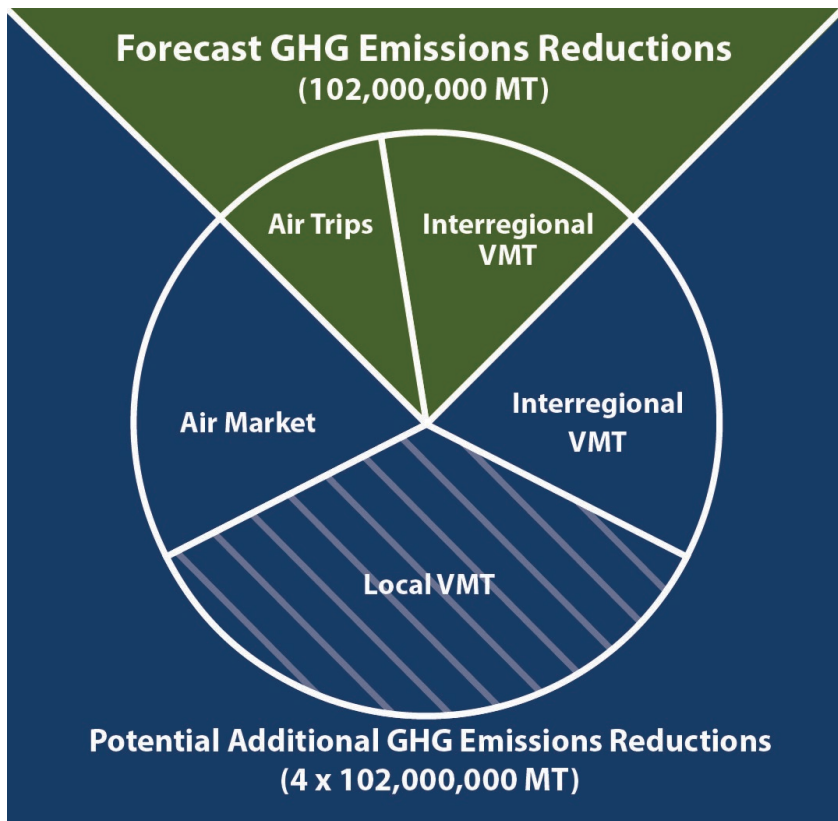


Exploring opportunities in Fresno to help revitalize adjacent communities.



# REDUCING VMT IS A CRITICAL CONTRIBUTION OF THE SYSTEM

Concentrating land use around HSR stations is vital for California's climate goals

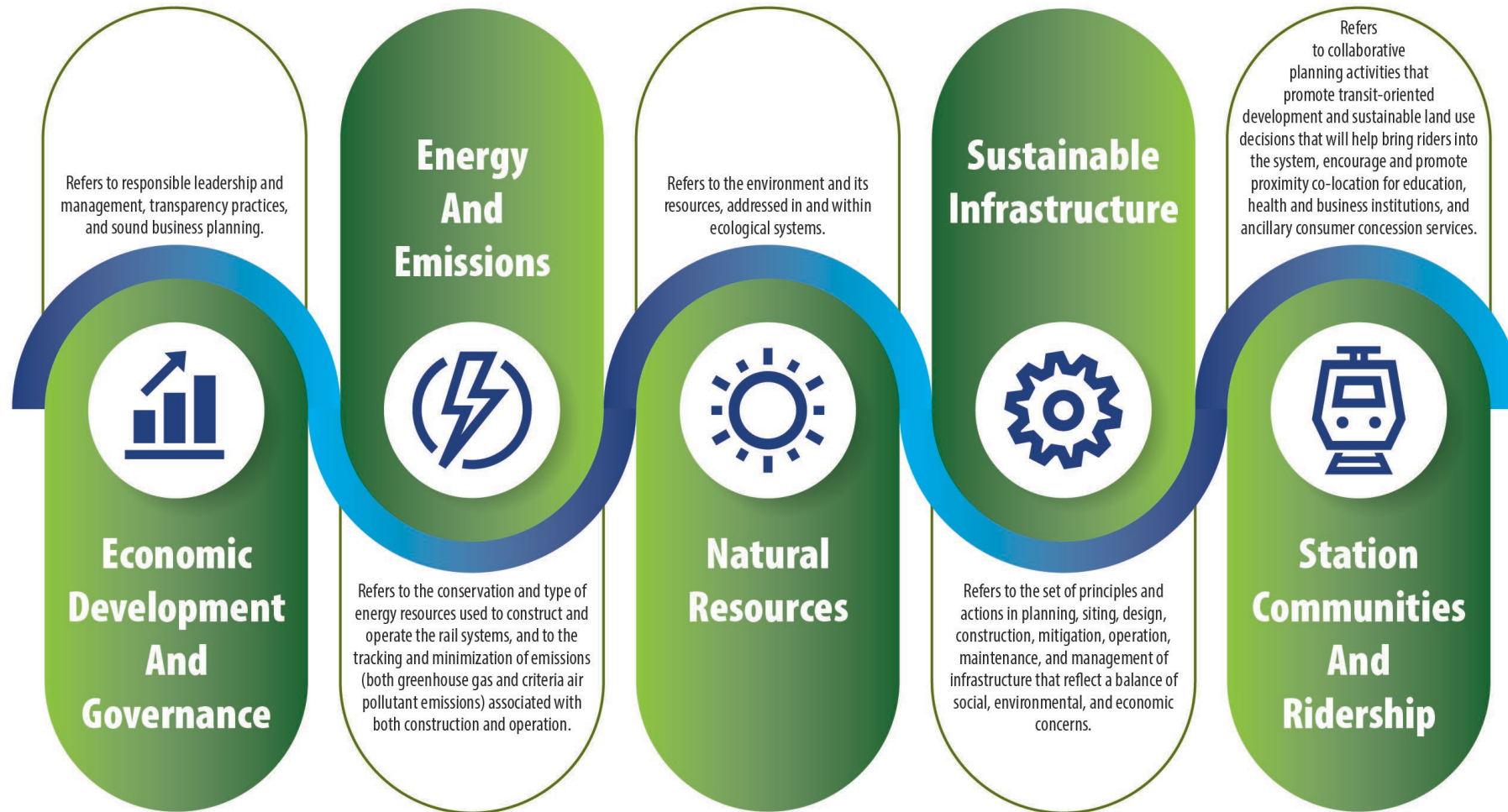


The system could result in substantial GHG reductions necessary for the state to achieve its ambitious goals.



# AUTHORITY SUSTAINABILITY PRIORITIES

Five key areas organize our sustainability approach



Later this year we will formally assess the environmental, social, and governance topics addressed in our reporting.



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CALIFORNIA HIGH-SPEED RAIL



## Headquarters

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Questions?