



# High-Speed Rail & the Future of Passenger Rail in America



Rail Passengers Association  
Sponsored by: The High Speed Rail Alliance



# Welcome

Sean Jeans-Gail, VP of Gov't Affairs and Policy  
Rail Passengers Association



**RAIL PASSENGERS**

A CONNECTED AMERICA





# Today's Webinar

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- Welcome - Sean Jeans-Gail, Rail Passengers VP of Government Affairs + Policy
- **Carlos Aguilar, President & CEO, Texas Central**
  - Update on the Dallas to Houston high-speed rail corridor
- **Boris Lipkin, Northern California Regional Director, California High-Speed Rail Authority**
  - Update on California's high-speed rail project
- **Congressman Seth Moulton, 6th District of Massachusetts**
  - Legislative update & high-speed rail in the 117th Congress
- Panel Q&A
  - Moderated by Jim Mathews, Rail Passengers President & CEO
- A Look Ahead - Joe Aiello, Rail Passengers Field Coordinator

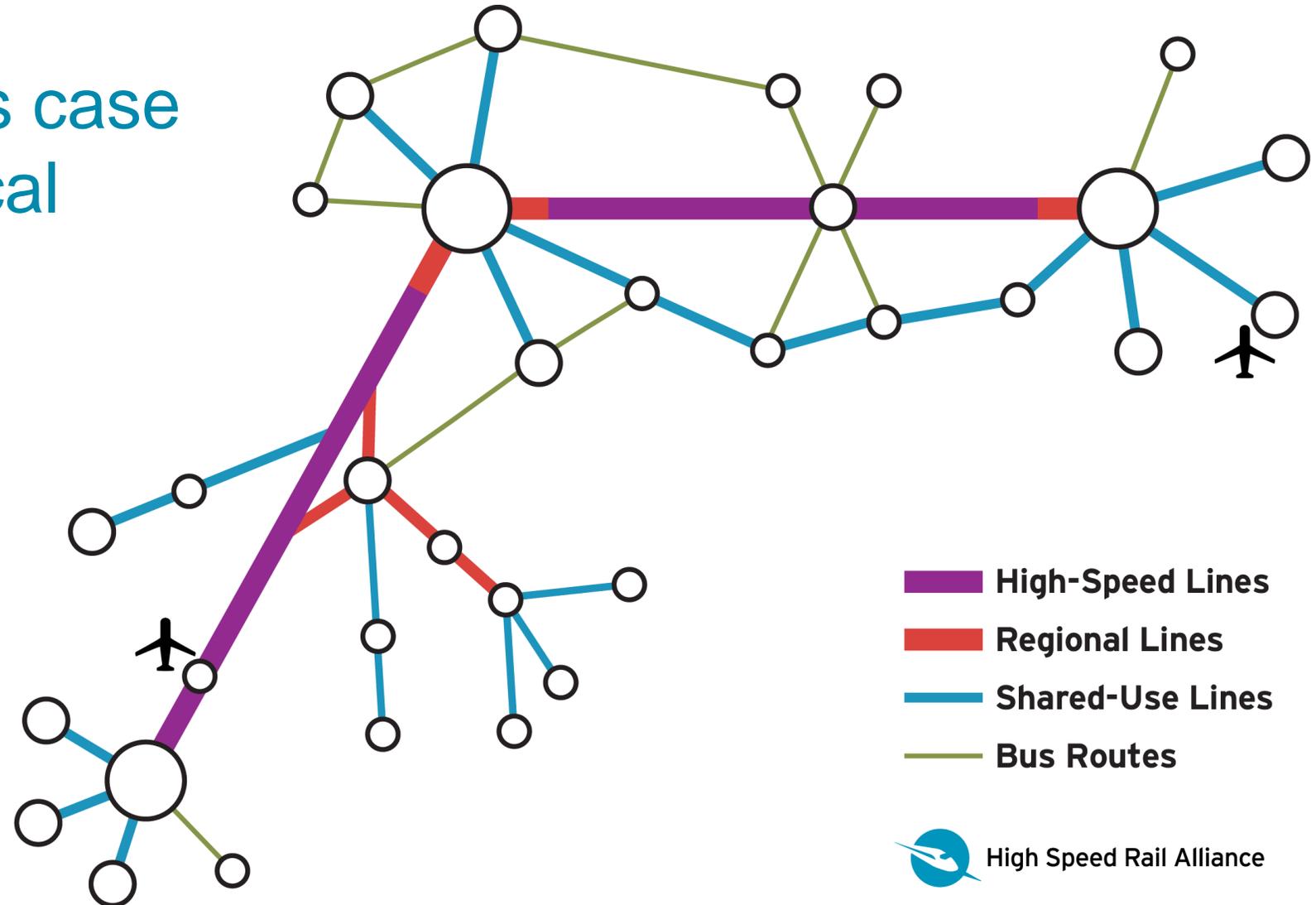


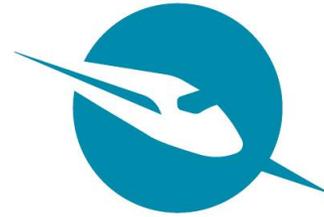
High Speed Rail Alliance

HighSpeedRail.US

# The Integrated Network Approach

For a better business case  
and a stronger political  
coalition





# High Speed Rail Alliance

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# Update on the Dallas to Houston High-Speed Rail Corridor

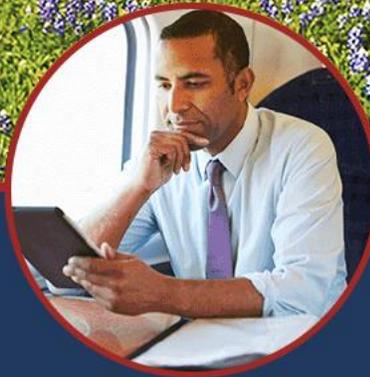
Carlos Aguilar, President & CEO

Texas Central



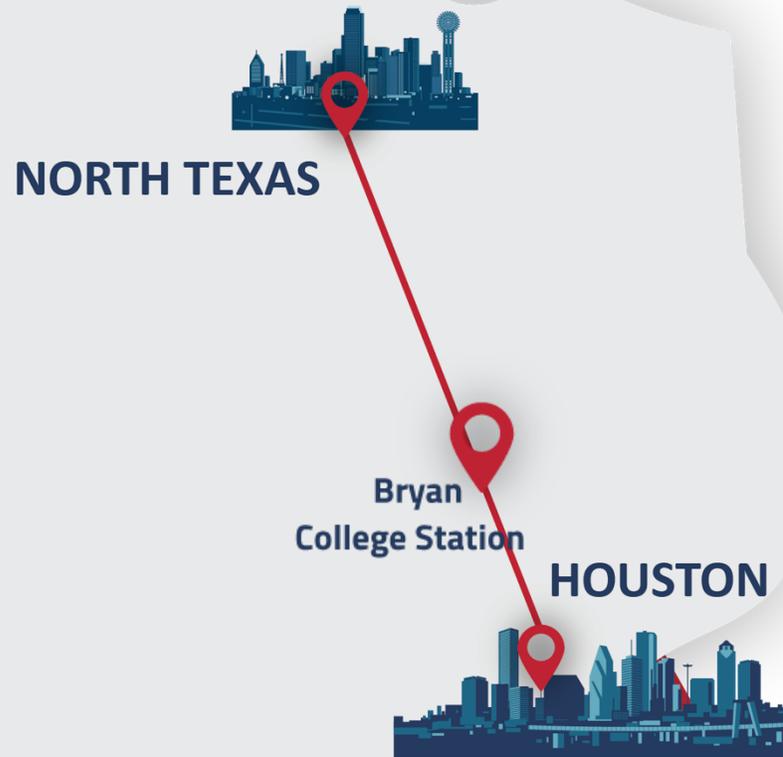
# THE TEXAS HIGH SPEED TRAIN

**CONNECTING PEOPLE, CREATING  
JOBS & A NEW AMERICAN INDUSTRY**



# Investor-Owned Approach

Data-Driven Decisions



**\$10s of millions** spent on studies

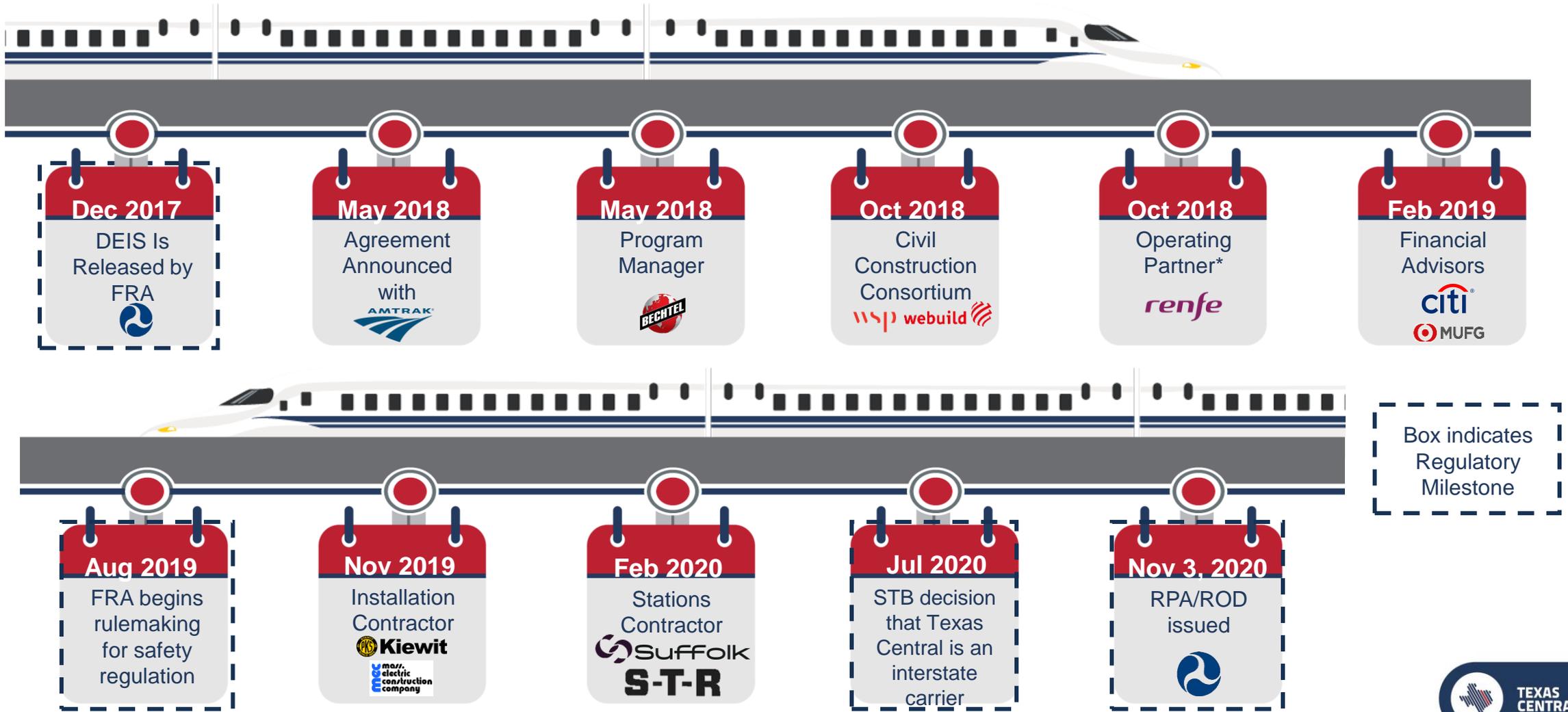


**16-million** trips per year already being made



**80% of Texans surveyed** said they would consider riding the train

# Tracking Major Milestones



# A Project with Regional and National Benefits



- Texas private investors developing the transformational Texas High-Speed Train of geopolitical importance with a **world-class transportation solution**
- Expected to generate **\$83.7 billion in total real cumulative revenue** and increase property values within ½ mile of stations by **\$63-\$149 million** and support a cleaner environment
- Investment in project would spur **economic development** across the US
  - Infrastructure components such as ballast, steel, and concrete would be sourced domestically
  - Thousands of construction and permanent jobs

# GLOBAL BEST FOR AMERICA'S 1<sup>ST</sup> HIGH-SPEED TRAIN

Creating A New American Industry With World Class Companies



**BECHTEL** Program manager will deliver the train on budget and schedule.



**TEXAS CENTRAL**



**citi MUFG** Financial advisors to lead capital-raising efforts.



**mass electric construction company** **Kiewit**



**MITSUBISHI HEAVY INDUSTRIES** **TOSHIBA**



**NEC** **HITACHI** Inspire the Next

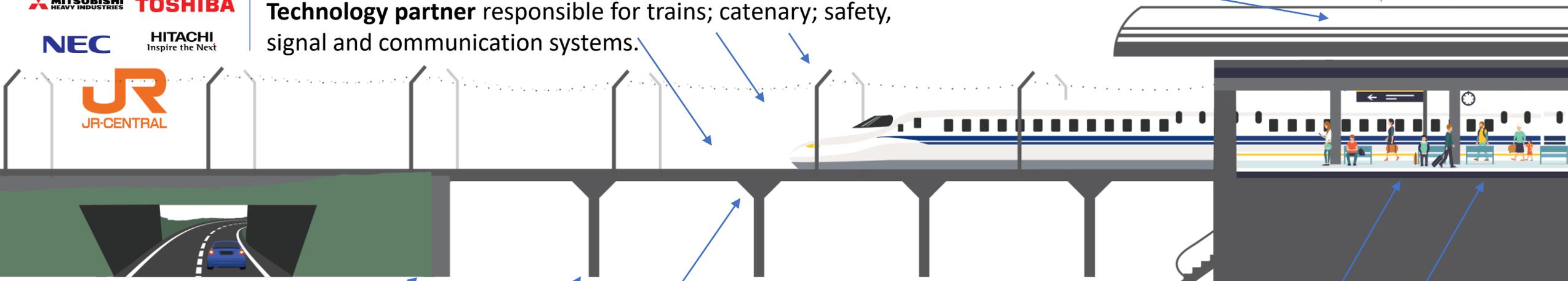


**JR**  
JR-CENTRAL

**Systems installation partner** responsible for installing catenary; safety, signal and communication systems.

**Technology partner** responsible for trains; catenary; safety, signal and communication systems.

**Stations contractors** together will build passenger train stations.



**Civil contractor** building everything from the ground up to the train rail including viaduct and berm foundations.



**Operating partner** will run the trains, maintain systems such as engines, signals and other equipment; oversee staff and service at train stations.



# Construction on a Texas-Sized Scale

## >\$20 Billion Investment in Civil Infrastructure



### CONCRETE

10 million cubic yards of concrete, nearly 3X used in the Hoover Dam



### RAIL

Nearly 1,100 miles of rail



### STATIONS & FACILITIES

3 passenger stations  
2 train maintenance facilities  
multiple maintenance of way and power substations

# Creating a New Industry in Texas

The Train is Moving Forward

**More than 1,500 Direct Jobs**



# Jobs, Jobs, Jobs

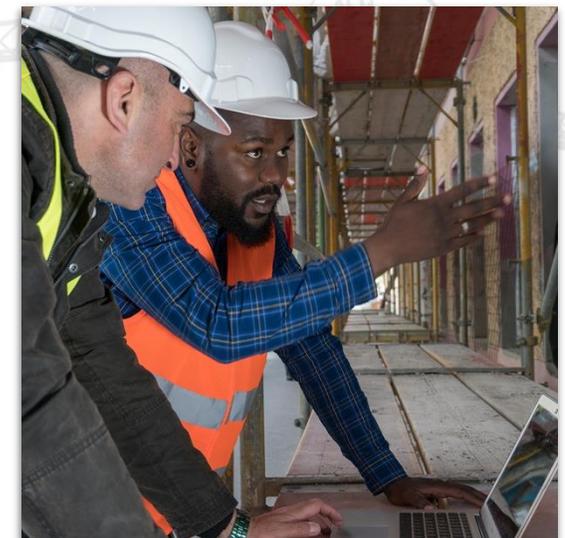
**17,000+ jobs created during construction**



**Electrician**  
**\$42,000/year**



**Welder**  
**\$50,000/year**



**Construction Manager**  
**\$80,000/year**

# Estimated Procurement from US Supply Chain

## Estimated Breakout of supply chain materials:

Item	Total \$ to be Purchased from US Suppliers
Rebar	\$543,000,000
Concrete	\$1,053,000,000
Structural Steel	\$154,000,000
Fencing	\$76,000,000
Ballast	\$225,000,000
Rails	\$175,000,000
Ties	\$125,000,000
Electrical Cables	\$73,000,000
Waterproofing	\$4,500,000
Drywall	\$8,000,000

Item	Total \$ to be Purchased from US Suppliers
Concrete Masonry	\$9,000,000
Glazing & Metal Panel	\$138,000,000
Roofing	\$9,000,000
Paving (Asphalt)	\$150,000,000
Paving (Concrete)	\$7,000,000
Electrical Materials (Gear, Terms, Conduit, Other)	\$116,000,000
Waterproofing	\$125,000,000
Aggregate Base/ Backfill	\$500,000,000
Lime	\$250,000,000
Post Tensioning	\$100,000,000

Item	Total \$ to be Purchased from US Suppliers
Overhead Catenary System	\$125,000,000
Power Poles	
Manufactured Elements (i.e. RCP, Bearings)	\$425,000,000
Forms, Slip Form, PCY Forms, Batch Plants, Gantry Cranes, PCY & ULF Equipment	\$70,000,000
AREMA Turnouts & Accessories	\$85,000,000
Pickup trucks	\$25,000,000
Construction Equipment	\$127,000,000
Small tools	\$1,026,000,000
Other Custom Fabrication	\$95,000,000
	\$1,507,000,000

~\$7.3b of materials from US companies across 37 states will be required for the construction of the project

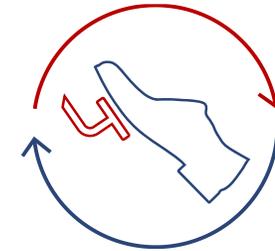
# High Speed, Low Impact



Fewer cars,  
less emissions



Fully electric



Regenerative  
braking

# High Speed, Low Impact

16 million journeys are made between North Texas and Greater Houston every year. 90% are made by car; 10% by plane.



1 million journeys are made by plane

15 million journeys are made by car



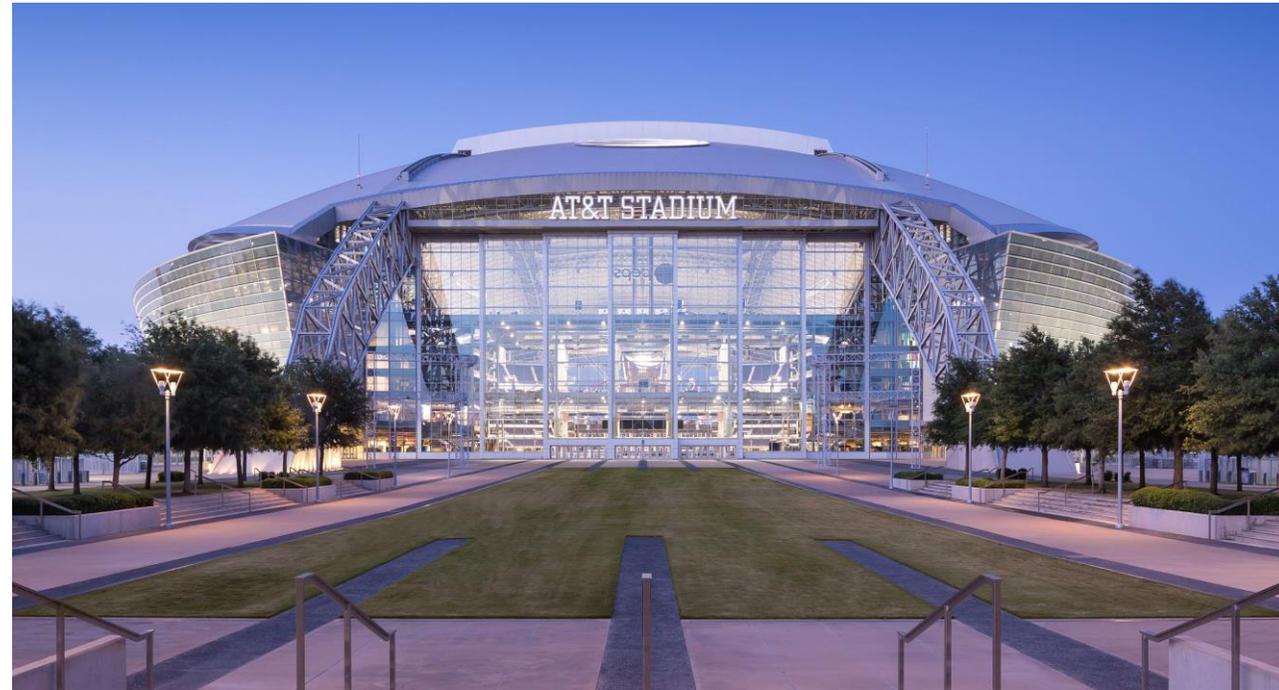
**13 million passengers are projected to ride the Texas High-Speed Train per year by 2050. By taking these travelers off the roads and out of the skies, Texans can expect:**

- A total energy savings of 2.46 trillion BTUs. That's enough energy to make 85 trips to the moon every year for 25 years!
- Reduced greenhouse gas emissions by 4.5 million tons or 101,000 tons per year.
- To save more than 1.2 billion gallons of gas or 65 million gallons per year.
- To save 300 million hours of travel time vs plane or car.
- 86 million cars removed from I-45. That's 12,500 cars per day!

# Energy Efficient

*Less than 1% of AT&T Stadiums consumption at its PEAK demand will be used for ONE train.*

- Approximately 12 MW during accelerations
- Approximately 6 MW when cruising at maximum speed
- Regenerative braking technology recycles approximately 10% of the energy back to the grid.
- ERCOT has an installed grid capacity of over 80,000 MW

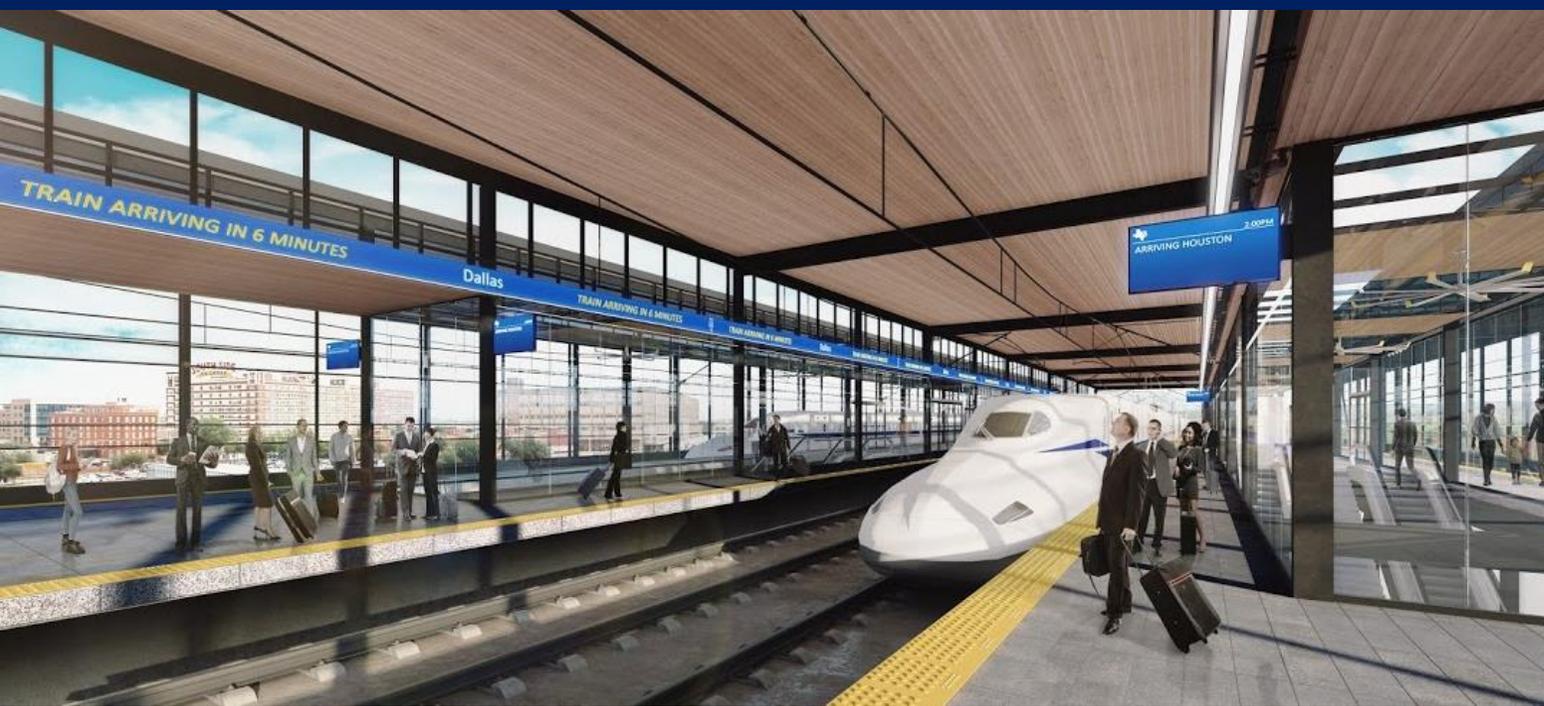




# Dallas Station

Potential Station Renderings

PRIVATE & CONFIDENTIAL



# Dallas Potential Station Renderings



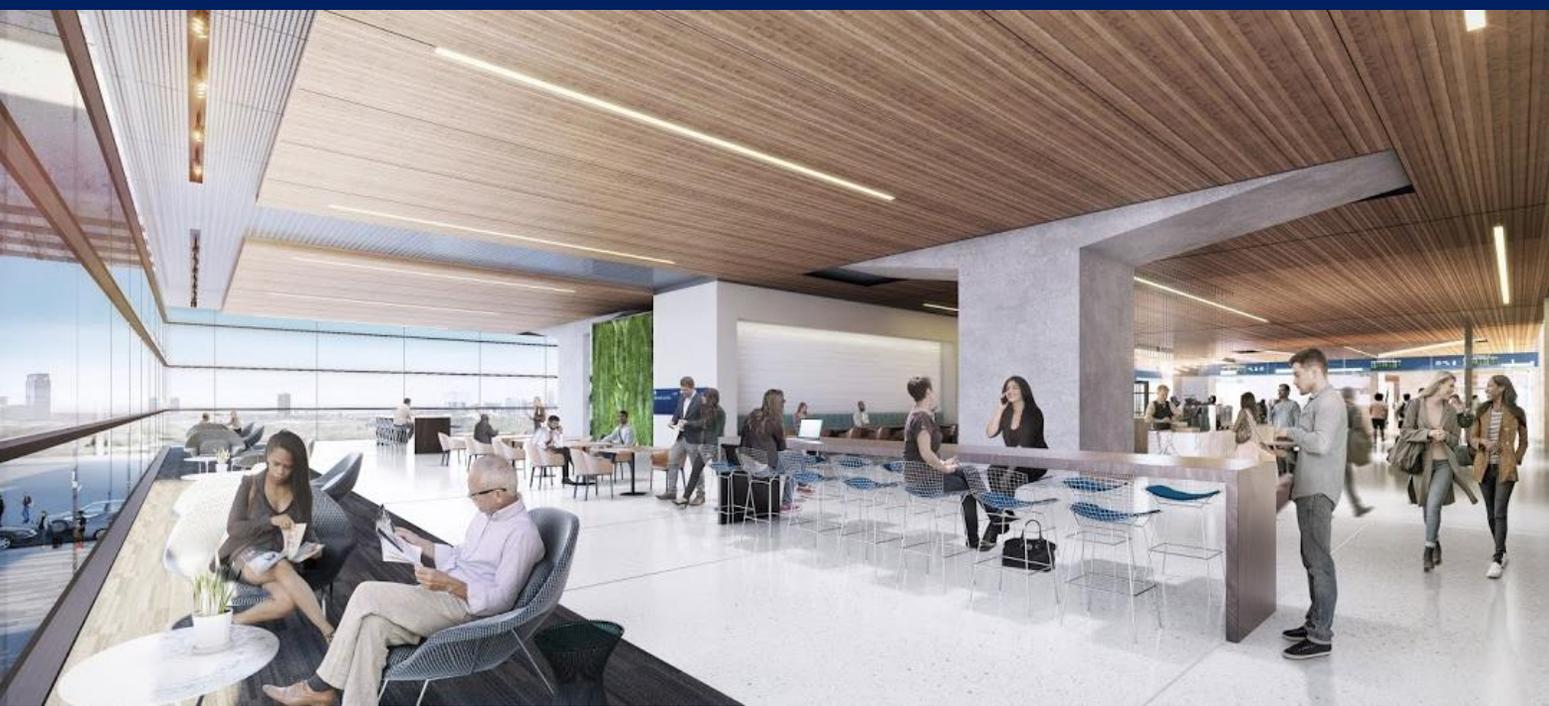
**PRIVATE & CONFIDENTIAL**



# Houston Station

Potential Station Renderings

PRIVATE & CONFIDENTIAL



# Houston Potential Station Renderings



**PRIVATE & CONFIDENTIAL**



# Brazos Valley Station

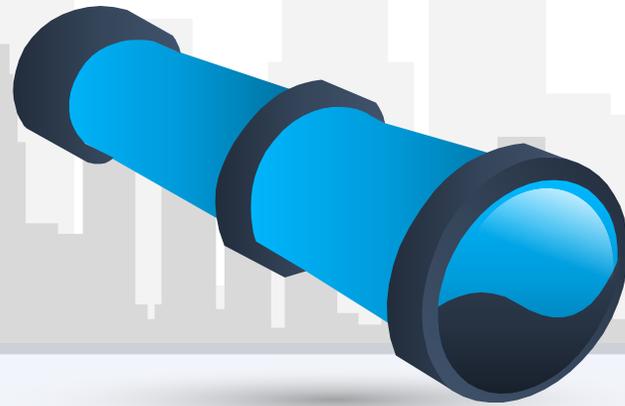
Potential Station  
Renderings



**PRIVATE & CONFIDENTIAL**

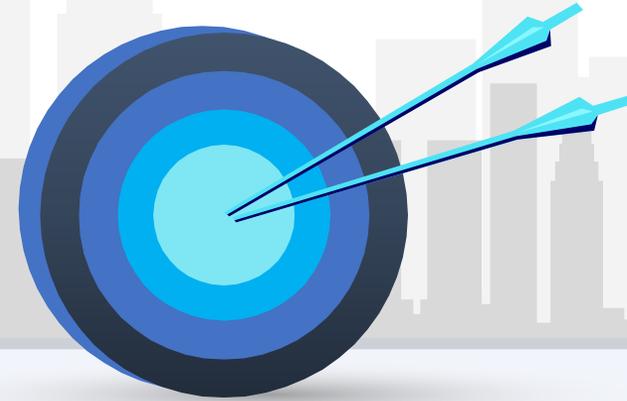
# Business and Workforce Opportunity Program

A Commitment to Diversity and Inclusion



## Vision

To provide sustainable economic development through transportation to Texas communities



## Mission

To promote growth of Texas-based small, rural, minority, women, veteran and disabled individual-owned businesses



# High-Speed Train Supporters & Partners



Millions of Texans and Texas businesses from across the state want this train



North Houston District



North Texas CCIM Chapter



Tarrant Regional Transportation Coalition

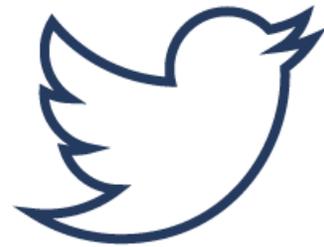


North Texas



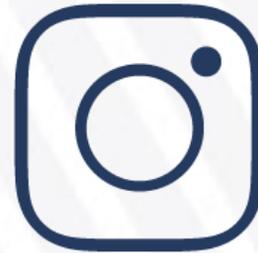
# Join the Conversation

**Text TRAIN to 52886**



**Twitter**

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**Instagram**

[@TheTexasCentralRailroad](https://www.instagram.com/TheTexasCentralRailroad)



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# Update on California's High-Speed Rail Project

Boris Lipkin, Northern California Regional Director



California High-Speed Rail Authority



# CALIFORNIA HIGH-SPEED RAIL: PROJECT UPDATE

Boris Lipkin  
Northern California Regional Director  
March 30, 2021



# MISSION

## CALIFORNIA HIGH-SPEED RAIL

To initiate the construction of a high-speed train system that utilizes an alignment and technology capable of sustained speeds of 200 miles per hour or greater.

### Three principles guide our decisions:

1. Initiate high-speed rail service in California as soon as possible.
2. Make strategic, concurrent investments that will be linked over time and provide mobility, economic and environmental benefits at the earliest possible time.
3. Position ourselves to construct additional segments as funding becomes available.



# CONSTRUCTION PROGRESS

## CALIFORNIA HIGH-SPEED RAIL

### Today:

- » 199 miles environmentally cleared
- » 119 miles under construction
- » Caltrain electrification construction underway
- » Funding committed for LAUS improvements
- » MOU with Brightline West
- » Environmentally clearing full 500 miles between LA- SF
- » Station planning



# REVISED DRAFT 2020 BUSINESS PLAN

## PROGRESS – 2018 to 2020

		2018		2020
	Construction Jobs Created	2,573	VS.	<b>5,216</b>
	Structures Completed or in Construction	19	VS.	<b>56</b>
	Environmental Drafts Released and ROD's Certified	5	VS.	<b>12</b>
	Right-Of-Way Parcels Acquired	1,423	VS.	<b>1,771</b>
	Miles of Guideways	47	VS.	<b>79</b>
	Monthly Average Expenditures on Design-Build Contracts	\$30.47M	VS.	<b>\$68.13M</b>



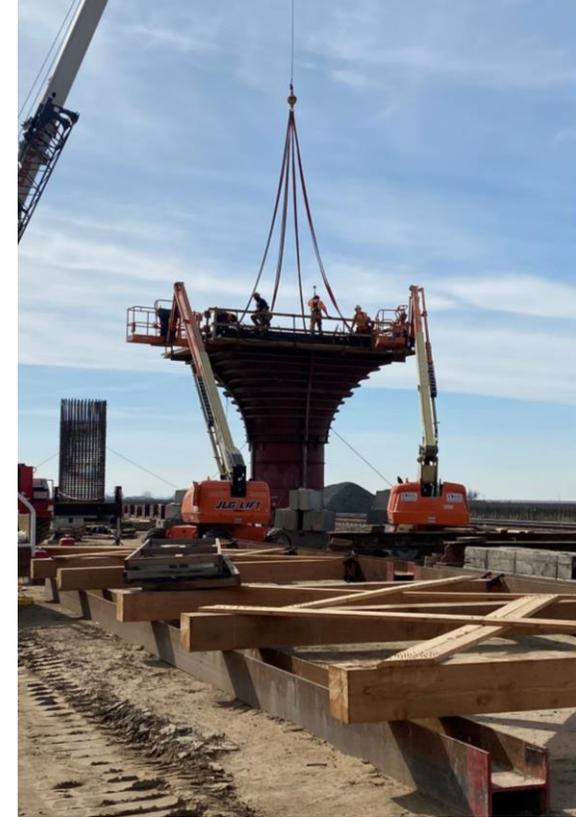
# SAN JOAQUIN RIVER VIADUCT



- 4,700-foot structure that spans the San Joaquin River in north Fresno and the Union Pacific tracks parallel to State Route 99
- Features arches representing the northern gateway into Fresno, and a pergola structure to allow high-speed trains to cross over the top of the Union Pacific tracks.



# CONEJO VIADUCT



- 2,000-foot Conejo Viaduct will carry high-speed trains over the existing BNSF rail line, Conejo Avenue, and Peach Avenue in south Fresno County
- Over 1,100 workers dispatched weekly to the 35 active construction sites



# WASCO VIADUCT



- The Wasco Viaduct will take high-speed trains over the existing BNSF freight tracks and will be nearly 2,000 feet long when complete.
- This super structure is part of CP 4, which is expected to be completed Spring 2022



# ECONOMIC IMPACT



**JOB-YEARS OF  
EMPLOYMENT**  
54,300 – 60,400



**LABOR  
INCOME**  
\$3.9B - \$4.4B



**ECONOMIC  
OUTPUT**  
\$10.5B - \$11.4B



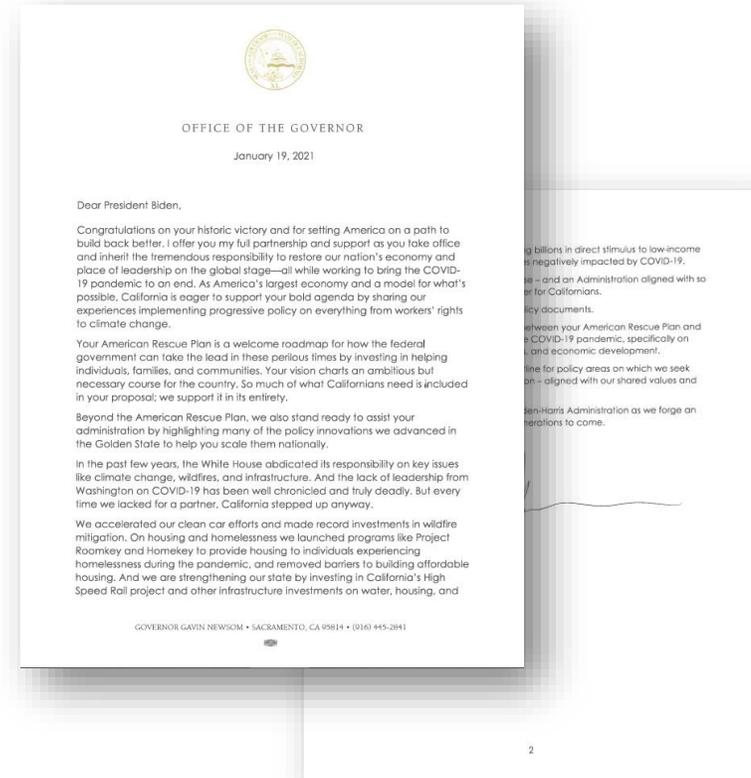
# A NEW FEDERAL PARTNERSHIP

*“I want the United States to be leading the world when it comes to the access of high-speed rail.”*

**- USDOT Transportation Secretary, Pete Buttigieg**

*“America has a chance to lead the world once more through innovation in infrastructure—connecting our communities, creating good jobs, addressing climate change and ensuring equity. Passenger rail development, including world-class high-speed rail, can and must be a part of our strategy to accomplish these goals. As in many other arenas, California has taken the lead nationally to advance high-speed rail, starting an economically transformative project in the Central Valley and assuming the challenges that come with that leadership. The U.S. Department of Transportation looks forward to partnering with California as it leads the way to build back better.”*

**- Acting Federal Railroad Administrator, Amit Bose**



# BUSINESS PLAN & PROP 1A ALLOCATION TIMELINE

- **Business Plan**

- » Feb 9 – March 12: public comment period
- » March: Board, Assembly and Senate Transportation oversight hearings
- » March 25: Board Approved Revised Draft
- » April 15: Submittal to Legislature

- **Proposition 1A Allocation**

- » Mid May: Governor's Revised Budget Proposal released
- » April 22: Board Meeting
- » June 15: 2021/22 Budget Act Passed



# CALIFORNIA HIGH-SPEED RAIL



## Headquarters

California High-Speed Rail Authority

770 L Street, Suite 800

Sacramento, CA 95814

[www.hsr.ca.gov](http://www.hsr.ca.gov)



# Legislative Update & High-Speed Rail in the 117th Congress

Congressman Seth Moulton

6th District of Massachusetts



# Q&A

Moderated by Jim Mathews, President & CEO

Rail Passengers Association



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## Upcoming Events:

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- **April 18-20** -  
Virtual Day on the Hill
- **May Webinar** -  
The Future of Onboard Hospitality
- **September 19-22** -  
Fall Advocacy Conference in Washington,  
DC

Go to

**[railpassengers.org/events](https://railpassengers.org/events)**

for more information





Join Rail Passengers!  
Help us continue the fight for  
"A Connected America"

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