

TEXAS HIGH SPEED RAIL FACT SHEET



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TEXAS HIGH SPEED RAIL FACT SHEET





A MAJOR SUSTAINABLE MOBILITY PROJECT FOR TEXAS

A high-speed train line - the first in the United States - to link two major cities, Houston and Dallas, in less than 90 minutes, reworking Texan mobility in a sustainable perspective.

Texas High Speed Rail will guarantee fast, safe and low environmental impact travel for 13 million people who today move between the two cities by car - the preferred means of transport by Americans for traveling through the Texan state - or by air.

From an environmental perspective, the Dallas-Houston train is expected to reduce CO2 emissions by about 700,000 metric tons annually. The train is 6 times more energy efficient than the car and emits about 1/12 of the carbon dioxide of a Boeing 777-200.

In terms of the economic perspective and the positive impact on the local area, the high-speed train, will increase employment both in the construction phase and in the management phase for thousands of people.

BENEFITS FOR THE ENVIRONMENT

-14,630

vehicles per day on I-45 between Houston and Dallas

-700,000 tons of CO_2 per year

BENEFITS FOR THE LOCAL AREA

>17,000

direct jobs during works



\$36 billion

is the estimated economic direct impact for the region for the next 25 years.

OVERVIEW TEXAS HIGH SPEED RAIL



*after the conclusion of the entire project approval process

2. ONE OF THE LARGEST INFRASTRUCTURE CONTRACTS IN THE U.S.

The transport infrastructure sector ranks first in investment in the United States.

The Interstate Highway System, introduced in 1956 by President Dwight D. Eisenhower to connect cities from coast to coast with highways, bridges, tunnels and viaducts, represents the largest total investment ever made in a transport system in the U.S. with a total investment of \$528 billion up to 2018. The second biggest infrastructure investment made in the United States was the Big Dig: a \$21-billion renovation of Boston's highway system completed in 2007, assigned, in 1982, to various contractors for \$2.8 billion. The total investment for the Texas High Speed Rail represents one of the largest infrastructure contracts in the United States.

Texas Central signed a design-build contract with Webuild Group (Texas High Speed Rail LLC is the company created by Webuild and its U.S. subsidiary Lane Construction) to build Texas High Speed Rail.







3. THE MOST SUCCESSFUL RAILWAY NETWORKS IN THE WORLD

The Texas high-speed train project is amongst the most important in the world in terms of railway connections between two large urban centres. Just like Madrid-Barcelona, Tokyo-Osaka or Paris-Lyon, the two cities Dallas and Houston are at the right distance to guarantee reduced travel times compared to car travel and at extremely competitive prices compared to air travel.



Sources: L.E.K. Consulting



4. IT IS THE FASTEST RAILWAY CONNECTION BETWEEN TWO U.S. CITIES WITH STRONG POPULATION GROWTH

The high-speed train will link Dallas and Houston in less than 90 minutes with a train every 30 minutes at peak times. There will be one stop in the Brazos Valley, where Texas A&M University is located. It is expected to be 90 minutes faster than car travel and one hour faster than air travel considering boarding times.

Dallas and Houston are respectively the fourth and fifth largest economies in the U.S, after New York, Los Angeles and Chicago. The two metropolitan areas are amongst those with the highest population growth. According to the US Census Bureau the Dallas/Fort Worth Metroplex registered one of the highest rates of population growth in the U.S. - 1 million from 2010 to 2018. It is estimated that 6 million passengers in 2029 and 13 million in 2050 will use the high-speed train between Dallas and Houston.

90 Minutes faster than by car

60 Minutes faster than by plane





TEXAS RESIDENTS IN THE RAILWAY AREA



5. **THE HIGH-SPEED TRAIN WILL OFFER A NEW SUSTAINABLE TRANSPORT ROUTE FOR OVER 13 MILLION TEXANS**

More than 13 million residents live less than an hour from one of the three stations of the high-speed train. Some 16 million journeys are made every year between North Texas and Houston, and these trips are expected to increase at a rate of 1.5% per year, almost double the

national average. At the moment, considering traffic congestion, it takes 4 hours to get from About 90% of travelers go by car, while Houston to Dallas. According to the Texas the remainder fly. According to the most Department of Transportation travelling comprehensive study of this market to times are expected to increase to 6 hours in date, 72% of travelers said they would 2040. It is an enormous problem from an "definately" or "probably" travel on the environmental point of view considering the high-speed train if it were an option today. ever-increasing amount of emissions.

Sources: Texas Central

The new railway line will therefore have a great impact in terms of traffic decongestion of Interstate 45, one of the busiest highways in the US - and when the train becomes operative it will remove approximately 14,630 vehicles daily.



6. THE JAPANESE FORMULA TO TRAVEL FAST IN THE SAFEST WAY POSSIBLE

Japan's Shinkansen first came into se on the Tokaido Shinkansen line betwee Tokyo and Osaka in 1964.

Its 55 years of service have been a verita triumph for the country in light of the benefits it has brought, especially in ter of safety. **Its track record is enviable zero accidents on land, on board or along the rail line**.

service en	Average rate of punctuality: one minute annual delay. The high-speed train
	transports 420,000 passengers a day along
table	world. Japan's network of high-speed rail service covers about dozen lines.
erms	
e:	The original N700 model with 16
r	carriages has been revised for the
	United States in the form of the new
	N700-S with eight carriages and an
	operating speed of up to 320 kilometers
	per hour.

7. A TRAIN FOR A FUTURE GENERATION OF BUILDERS

The stop between Dallas-Fort Worth and Houston at Brazos Valley will serve thousands of students, academics and researchers at the Texas A&M University daily. Founded in 1871 as the Agricultural and Mechanical College of Texas, it is the second largest university in the country in terms of numbers of students with about 64,000 registered compared to 66,000 at the University of Central Florida in Orlando. A&M has more than 12,000 students in engineering as well as campuses abroad. **The construction of the high-speed train at this location makes the university more attractive to American students.**





8. THE WEBUILD GROUP FOR THE DEVELOPMENT OF GLOBAL INFRASTRUCTURE

Webuild Group, that signed designbuild agreement with Texas Centra the high speed railway's infrastruct civil works, has completed more that 2,000 projects in its 115-year history Many of these projects were challen for their geography (deserts, forests) or urban setting (big cities with dens traffic flows). Each project is a sign o distinction for a group that works in countries with 70,000 employees fro more than 100 nationalities. The Group, which operates in the United States through Lane Construction (130 of history), has a long experience in rail infrastructure, especially in complex sys for high-speed and highcapacity trains. a track record of 13,637 kilometres of and metro lines (since 1960).

It is working on high-speed rail projects the Brenner Base Tunnel, which will be longest rail tunnel in the world; the new Genoa-Milan and Naples-Bari railway in Italy and the new "Orient Express" in Turkey between Istanbul and the Bulga border. Through Lane Construction, it

-	recently built the LYNX Blue Line Extension
al for	(BLE), in North Carolina.
ture	Lane's experience in Texas includes several
an	completed projects such as the Fort Worth
y.	Alliance Airport Runway Extension,
ging	the I-35W Improvements, the I-35
)	Improvements (with Brazos River Bridge) as
se	well as the SH 360 South Toll Road and the
of	IH-35E Management Lanes. The Phase III
50	Extension of the 183A Tollway is currently
om	under construction.
d	The Group's expertise includes the metro
years	networks in cities such as New York, San
	Francisco, Paris, Copenhagen, Milan, Rome,
stems	Lima, Riyadh and Doha. It is also involved
It has	in the construction of iconic projects in
of rail	other sectors of the infrastructure industry,
	such as the Rogun dam in Tajikistan, which
	will be the highest in the world; the Snowy
s like	2.0 hydroelectric project in Australia; the
e the	Northeast Boundary Tunnel in Washington,
N	D.C.; the Al Bayt stadium for the 2022 World
lines	Cup in Qatar.
n	
arian	

MAIN RAILWAYS Completed and ongoing projects



MAIN HIGH SPEED/HIGH CAPACITY RAILWAYS COMPLETED AND ONGOING PROJECTS



XXXX COMPLETION DATE

San Gotthard Tunnel, Bodio and Faido Lots - 2014
 Brenner Base Tunnel - "Isarco River Underpass" section
 Brenner Base Tunnel - Lot Mules 2-3
 Brenner Base Tunnel - "Tulfes - Pfons" section

Webuild S.p.A. www.webuildgroup.com www.webuildvalue.com www.laneconstruct.com

Texas Central www.texascentral.com

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