



# TRANSFORMING TRAVEL IN TEXAS

Assessing passenger demand for high-speed train service  
between North Texas, the Brazos Valley and Greater Houston

An updated analysis of consumer demand and ridership





## ABOUT THE PROJECT

The design, construction, finance and operation of a new high-speed passenger train line connecting Houston and North Texas has been under development since 2002. This market was chosen as the most attractive after reviewing 97 pairs of cities and their potential for commercial success. The project expects to begin construction after federal permits are granted and financial close is achieved, at the earliest the end of 2019. The train will enable passengers to travel between Houston and North Texas in 90 minutes, including an intermediary stop in the Brazos Valley. This transformational project will provide a safe, productive, fast and reliable choice for travelers between the country's fourth and fifth largest economies. **These metropolitan regions collectively produce 6% of US GDP, and contain close to 50% of Texas' population and 5% of our national population. Connecting these cities via high-speed train will not only service an existing travel market that is only increasing in size, but will create a super economy larger than that of Spain or Mexico.**

The location of this project is well suited in that Texas is the second largest state economy in the US and is growing at historic rates. With the sustained yearly population increase, the need for infrastructure is critical to preserve the future economic vitality of the State. In addition, the Texas market is free from many of the engineering challenges other projects in the US and around the world face like navigating mountains, tunneling, crossing large bodies of water or significant seismic activity.

The Texas high-speed train will give Texans the travel choice they are demanding while, at the same time, allowing them to rethink the entire travel experience. By utilizing the Shinkansen technology, riders will enjoy the same on-time and safe operations that has resulted in moving billions of passengers with no fatalities in 54 years and an average on time annual delay of less than a minute. Texans are demanding a safe, productive and reliable option for travel between Houston, the Brazos Valley and North Texas.

## ABOUT THE STUDY

In January 2016, Texas Central appointed L.E.K. Consulting to conduct a study exploring the opportunity for a high-speed train service in Texas and the benefits it could bring to Texans. Since that time, L.E.K. has provided ongoing support in forecasting, continually updating their work to reflect the most up-to-date information and data available.

L.E.K. has developed a commercially driven, technology enabled forecast for passenger demand including:

- Estimating the market size and growth rate for travel between the two metropolitan areas;
- Data utilized includes TxDOT traffic counters, Bluetooth sensors, USDOT flight volumes, and anonymized cell phone data and included over 3 billion calculations;
- Undertaking primary market research with input from over 4,400 Texans to understand local travel habits and determine the Texas high-speed train's potential share of the travel market corroborated by detailed discussions in focus groups;
- Building a robust and highly granular forecasting model to predict future passenger demand under a range of assumptions and different scenarios

This study is the most comprehensive work conducted to date for this specific region and is unprecedented in its depth, innovative approach and use of both new, private research and publicly available data.

L.E.K. has worked closely with Texas state and regional governments, macro-economic forecasters, and cell phone data providers to obtain robust and highly granular third party data and forecasts.

L.E.K. has combined all the data using modeling techniques which either meet or exceed the best practices outlined by the United States Department of Transportation (TxDOT), deploying standard transport economics, statistical analysis and big data approaches to produce a robust and detailed forecast.

This brochure is an update of a version originally published in 2016, recognizing the changes in the market during the two years since it was first released. During that time, Texas has seen continued economic and population growth, outperforming the national average, and awareness and understanding of the Project has grown among Texans. This brochure incorporates the most up-to-date data and information available, including the latest consumer research from 2018.



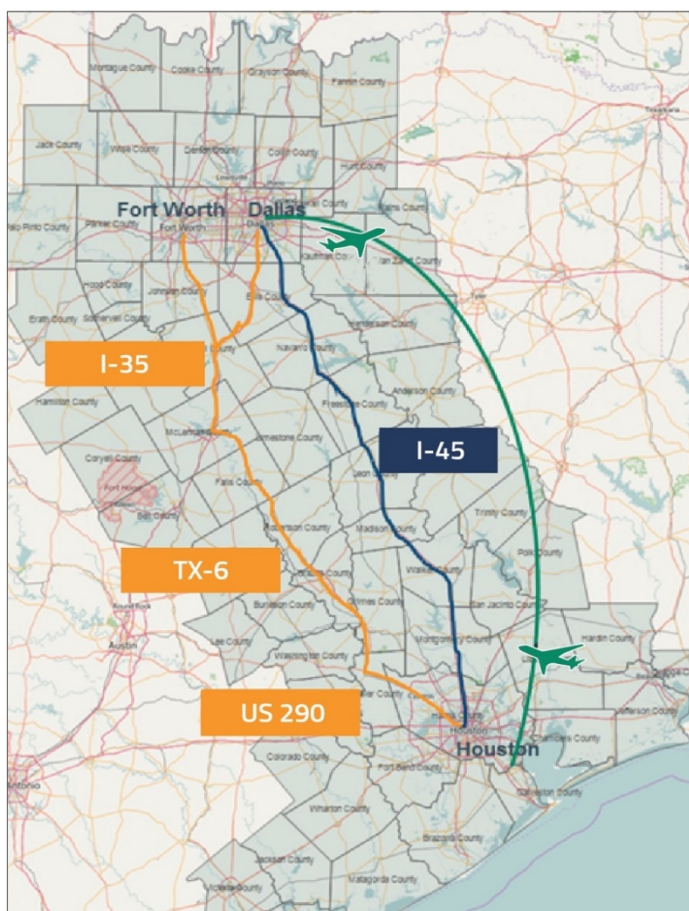
# 1. TRAVEL MARKET OVERVIEW

## TEXANS LIKE TO TRAVEL ACROSS TEXAS...

Each year, roughly 16 million journeys<sup>1</sup> are made between Greater Houston and North Texas. This figure has been established using a variety of data sources, including traffic count data from Texas Department of Transportation, Bluetooth data from TTI and cellphone data and includes all flights, bus journeys, and non-commercial/non-freight road traffic. The number of journeys per year has grown by approximately 15% since 2016, outpacing expectations in the ridership study in 2016.

Research indicates most journeys are made for personal reasons, nearly half of which are to visit friends and family. Other reasons for travel across the region include taking a vacation/weekend trip, going to a game, shopping, or other leisure activities. Trips for business are common, representing nearly 25% of all journeys, with personal journeys being the most common type of journeys amongst current travelers, accounting for 78% of all types of journeys.

### Current key routes between North Texas and Houston



## ...BUT TRAVEL OPTIONS ARE LIMITED AND JOURNEY TIMES ARE LONG AND UNPREDICTABLE

More than 90% of journeys between Houston and North Texas are made by road, typically using I-45, but also by the Western alternative route, which consists of a series of interstates, state highways and farm to market roads. Drive times can range from 3.5 to 5.5 hours during busy times, and – once congestion is factored in – may be significantly longer than anticipated and difficult to predict. Moreover, congestion will only get worse, both in and around the metropolitan areas, and along I-45 where vehicle counts have increased at a rate of over 6% per year since 2012.

Approximately 1 million journeys are made by air each year, with the connection between Dallas Love Field (DAL) and Houston Hobby (HOU)

<sup>1</sup> Defined as one-way travel between the Houston and North Texas regions made by one single passenger in 2017

airports the most popular. Although in theory scheduled flight times range between 60 – 75 minutes, in reality flight times are typically longer, once delays are factored in.

In fact, when all stages of the trip are taken into consideration (check-in, baggage drop, choke-point security, and lining up single-file to board in a cramped aisle), travel by air is not much faster than by road. As a result, air travel inadequately serves the most time sensitive travelers on this route, and has been in decline. From a peak of 2.1 million direct travelers in 2000, air travel between Dallas and Houston has declined to approximately 1 million in 2017. This decline can be attributed in part to the increased security clearance times following 9/11 and the financial crisis in 2008–9.

## TEXANS DESERVE THE BEST

The high-speed train will fundamentally transform the journey between North Texas and Greater Houston, providing travelers with a safer, more productive, more reliable and faster alternative to driving or flying. At speeds approaching 200 miles per hour, the high-speed train will take less than 90 minutes from station-to-station, including one stop in the Brazos Valley.

The high-speed train system is based on the Tokaido Shinkansen Technology, which has operated for more than 50 years in Japan with **a perfect track record of no crashes and zero passenger fatalities or injuries** due to train accidents. It departs and arrives on time with an average annual delay of less than a minute.

## SYSTEM SECURITY

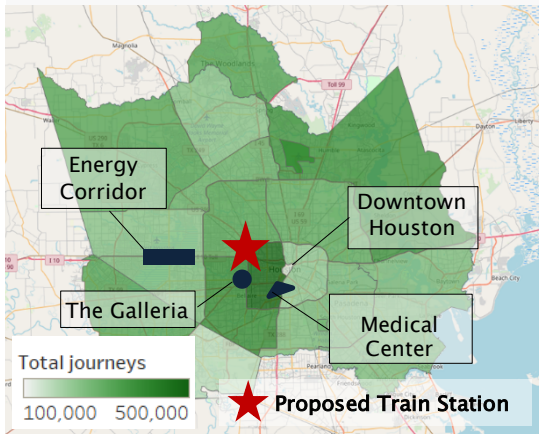
Passenger safety and system security is a top priority for government agencies, law enforcement, the project's private sector workforce and investors. The Department of Homeland Security (including the TSA), Federal Railroad Administration, Texas Department of Public Safety and other oversight agencies will review and approve the passenger security and emergency preparedness plans. Detailed planning is ongoing and of necessity isn't appropriate for full public disclosure. However, we can say that the Texas high-speed train will adhere to many practices used by the highly successful Japanese Shinkansen train systems (tailored to the unique Texas operational environment)

including a "total system" approach that seamlessly integrates all major train safety system functions. As a privately developed project, there will be an unwavering focus on safety and deploying world-class technologies and practices while ensuring safe operations without imposing the intrusive, time-consuming procedures airline passengers must endure while flying. As threat assessments evolve, the project will continue to adopt security technologies and safety protocols that effectively protect passengers and provide customers peace of mind while traveling.

## STATIONS WILL BE CONVENIENTLY LOCATED TO FACILITATE EASE OF TRAVEL

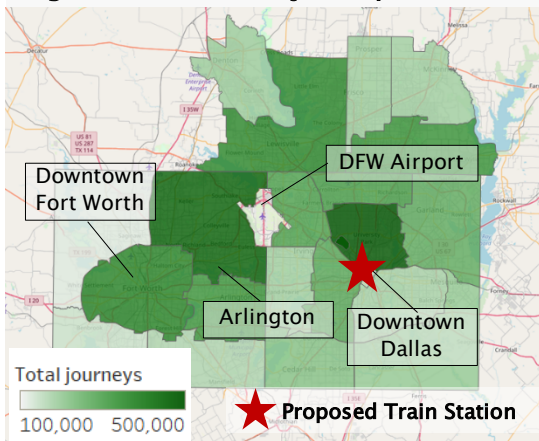
Three station locations have been chosen to best serve travelers along the Houston–North Texas corridor, conveniently located close to the centers of population and business activity. The number of journeys starting in each of the regions surrounding the stations is shown below, where darker green indicates a greater number of journeys being made.

### Origin of Greater Houston journeys to North Texas



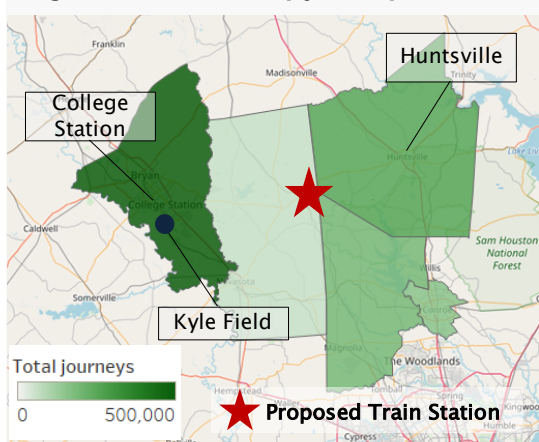
The station in Houston will be located North West of the inner loop close to the I-610 and US 290 junction, at the site of the former Northwest Mall. This area is optimally positioned to serve Greater Houston's travelers, as it has easy access to and from the major centers of the city including Downtown, the Galleria, and Energy Corridor.

### Origin of North Texas journeys to Greater Houston and Brazos Valley



The station in North Texas will be located south of downtown Dallas, near the Kay Bailey Hutchison Convention Center. This is within walking distance or a short car ride away from key venues such as the Kay Bailey Hutchison Convention Center and American Airlines Center.

### Origin of Brazos Valley journeys to North Texas



The station in Brazos Valley will be located in Grimes County, between Bryan–College Station and Huntsville at the intersection of highways 30 and 90. This station will allow students and professors from Texas A&M or Sam Houston State to reach North Texas quickly by train, as well as providing a convenient option for travelers living North of Houston, who now won't need to drive into Houston traffic to take the train.

## OF THE 17 MILLION TEXANS LIVING IN THE LOCAL AREA, OVER 90% WILL SAVE AT LEAST 1 HOUR OF THEIR JOURNEY TIME BY TAKING THE HIGH-SPEED TRAIN

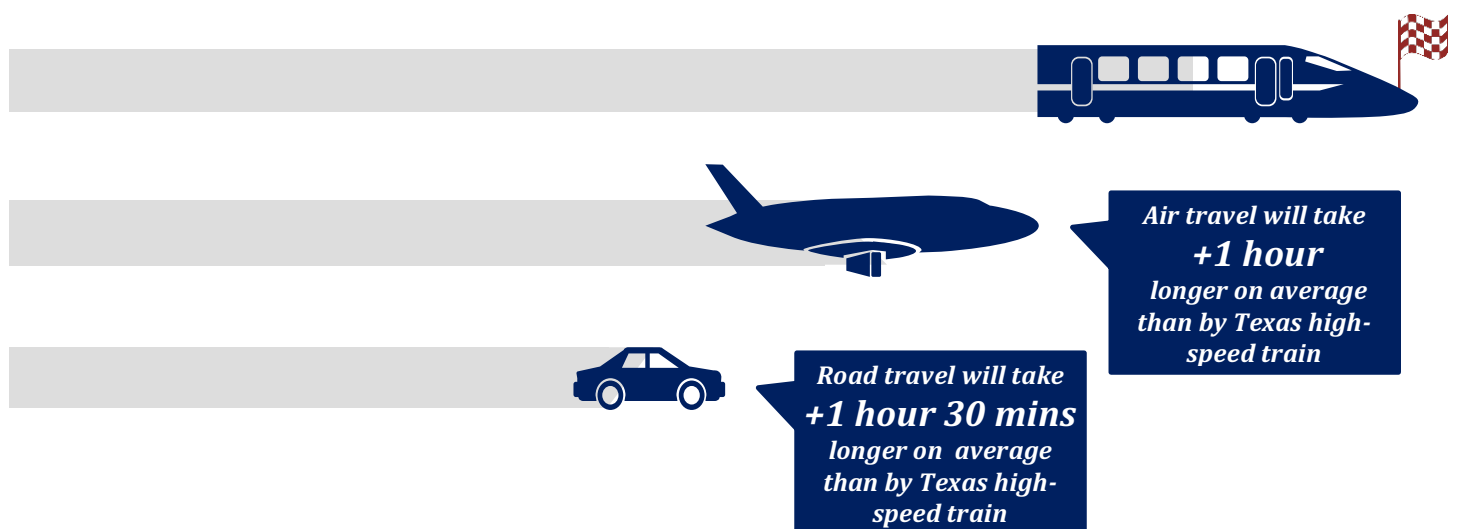
Stations will be within 60 minutes' drive for 80% of local residents, that is almost 50% of all Texans! This enables easy access to each region's excellent highways, thoroughfares and expansive public transit networks. Passengers will navigate easily through each of the three newly constructed stations, designed with the customer in mind, with frequent departures to help minimize waiting time.

## THE TEXAS HIGH-SPEED TRAIN WILL REDUCE JOURNEY TIMES BY 60-90 MINUTES ON AVERAGE

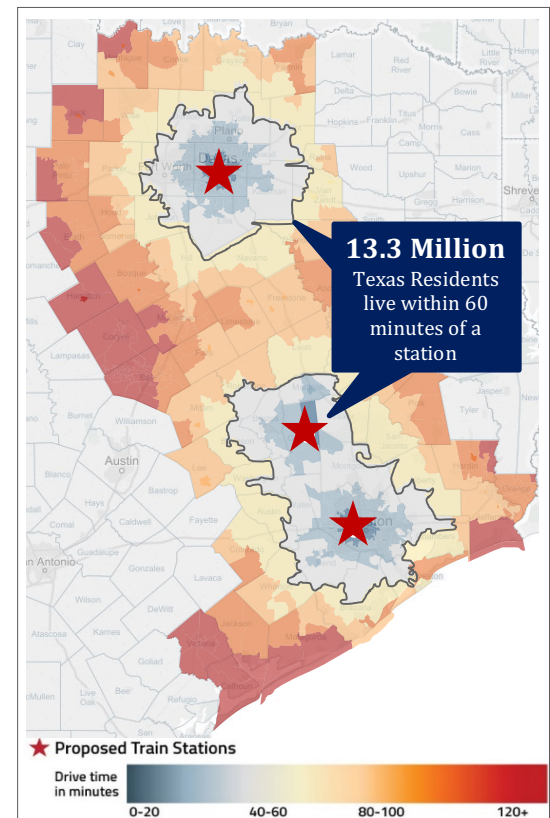
A comprehensive analysis of every component of a trip between North Texas and Greater Houston via the high-speed train — including getting to and from the station, check-in, security and boarding— indicates an average total journey time of approximately 3 hours.

To determine how this compares to current journey times across the region by car or by air, it is necessary to consider the total journey time from start (e.g., home) to finish (e.g., work).

### Time saved using Texas High-Speed Train compared to other modes of transport



Texas High-Speed Train catchment







### **JOURNEYS USING THE TEXAS HIGH-SPEED TRAIN ARE AROUND 90 MINUTES FASTER THAN TRAVELING BY CAR**

When traveling by car, journeys starting from Houston city center and finishing in Dallas city center (or vice versa) take approximately 4 hours 30 minutes at busy times. This includes time spent driving on local roads and the freeway, as well as rest stops.



### **JOURNEYS USING THE TEXAS HIGH-SPEED TRAIN ARE AROUND ONE HOUR FASTER THAN TRAVELING BY PLANE**

When traveling by air, journeys starting from Houston city center and finishing in Dallas city center (or vice versa) take approximately 4 hours at busy times. This includes driving to and from the airport, total flight time, as well as time spent at the airport before departure (i.e., for check-in, clearing security, boarding) and upon arrival (i.e., for disembarkation and bag-collection).

## **SIGNIFICANT TIME SAVINGS WILL DRAW PASSENGERS TO HIGH-SPEED TRAINS**

The Texas high-speed train is therefore an attractive choice of travel for local residents, many of whom would save 60 minutes or more on their total journey time between Greater Houston and North Texas. As well as these time savings benefits over air and car the Texas high-speed train will not be subject to the uncertainties caused by the frequent delays and cancelations experienced by air passengers and the congestion faced by road users. Instead, the Texas high-speed train will be using a technology that has proven to be extremely reliable in Japan, meaning a journey by train will be on-time every time. These benefits extend to beyond those living close to the stations, with Texans living and traveling between areas surrounding the cities also benefiting.



### Time savings for journeys made using the Texas high-speed train

A selection of journeys are shown below and the time savings made by using the Texas high-speed train.

Journey		High-speed train savings compared to:	
From	To	Air	Car
Fort Worth	Energy Corridor	1 hr 15mins	1 hr 25mins
The Galleria Dallas	The Galleria Houston	1 hr 10mins	2hrs
AT&T Stadium	NRG Stadium	1 hr 20mins	1 hr 50mins
Parkland Memorial Hospital	Texas Medical Center	1 hr 10mins	1 hr 55mins
Plano	Downtown Houston	1 hr 30mins	1 hr 50mins
George W. Bush Presidential Center	George H.W. Bush Presidential Library	n/a	1 hr 10mins
McKinney	Downtown Houston	1 hr 30mins	1 hr 50mins
Denton	Galveston	50mins	2hrs

Overall, more than 90% of residents in the area around or between Houston, North Texas and Brazos Valley will make significant time savings over car and air by using the high-speed train to travel between Greater Houston and North Texas. The Texas high-speed train should therefore become the preferred mode of travel for millions of travelers. Moreover, to the degree the high-speed train helps relieve congestion on busy roadways and at crowded airports, the system will benefit every Texan, even if they choose to continue to drive or fly.

### TEXAS CENTRAL HIGH-SPEED TRAIN WILL OFFER AFFORDABLE AND ATTRACTIVE OPTIONS FOR ALL TRAVELERS

Texas high-speed train will provide a significantly different product compared to existing modes of transport, with much shorter and more reliable end-to-end journey times, increased comfort and the ability for travelers to be productive during their journey, whether watching a movie, making phone calls, or working on that key report.

To be successful, the Texas high-speed train will need to provide service and fares designed to attract a wide range of travelers. This means affordable fares for cost-conscious travelers, as well as more expensive luxury options with significant space and delicious food for those that value quality.

Regardless of travel class, there will be **no middle seats on the Texas high-speed train and significantly more leg room than air travel**, thereby affording passengers extra comfort during their journey.

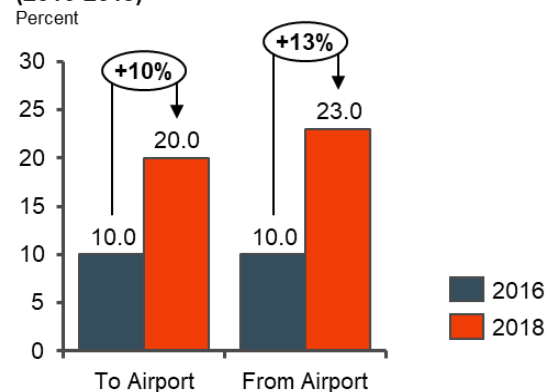
## MOBILITY AS A SERVICE ALREADY TAKING TEXANS OUT OF CARS

Over 16 million journeys are made between North Texas and Houston per year, with over 90% made by road and no alternatives other than air travel. Texas' strong economic and population growth makes it the ideal place to launch America's first purpose-built high-speed train service.

The high-speed train will give travelers between North Texas and Houston significant time saving benefits as well as a comfortable, safe and secure environment. Additionally, **the introduction of a technology-enabled option like the high-speed train will create new journey opportunities that are currently not possible with existing travel options.**

With Texas's large and continually growing economy and rapid embrace of new Mobility as a Service (MaaS) technologies, there could not be a better time for the introduction of a high-speed train service. Furthermore, as ride hailing options continue to expand, access to and from stations will become easier, even if you don't have your own car. Texans' use of ride hailing services, such as Uber and Lyft, has been growing steadily, with our own surveys showing that **between 2016 and 2018 the proportion of travelers using ride hailing to travel to and from airports has doubled in only two years!** Nearly 80% of travelers that use ride hailing services indicated that either they "definitely" or "probably would" travel by the high-speed train on their next journey, greater than the Texan average of 72%.

**Percentage of journeys made to and from Houston and Dallas airports using ride hailing services (2016-2018)**  
Percent



## TEXANS ARE EXCITED BY THE TEXAS HIGH-SPEED TRAIN

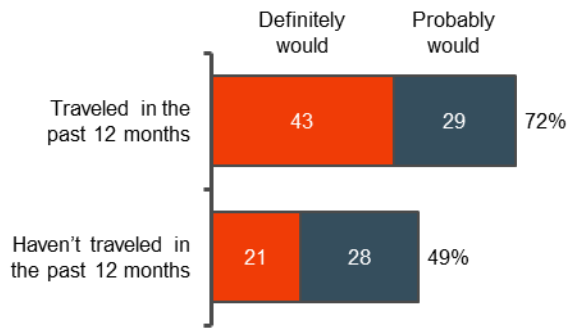
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## 85% OF TEXANS WOULD CONSIDER USING THE TEXAS HIGH-SPEED TRAIN

Everyone knows Texans love their cars and trucks. Nevertheless, **an overwhelming majority of Texans (85%) said they would use the high-speed train in the right circumstances**, with only 14% of survey respondents stating they would not consider any alternative but their personal vehicle.

## MORE THAN 70% OF TEXANS EXHIBIT A VERY POSITIVE ATTITUDE, STATING THAT THEY “DEFINITELY” OR “PROBABLY WOULD” USE THE TEXAS HIGH-SPEED TRAIN

How likely are you to travel by the Texas High-Speed Train on your next journey, of the option existed?



The survey also tested Texans' attitude towards the high-speed train, with the vast majority of Texans being very positive about using the service. While 85% of Texans who had traveled between Greater Houston and North Texas over the last 12 months would consider using the train in the right circumstances, as many as 72% said that they “definitely” or “probably would” use the service now if it were available. Compared to the 2016 survey, travelers have stronger convictions

about taking the train, with the proportion indicating they “definitely would” travel by high-speed train increasing compared to “probably would”, and the overall proportion saying they “probably would” or “definitely would” also growing.

## THERE IS STRONG INTEREST FROM BOTH PERSONAL AND BUSINESS TRAVELERS

Currently the majority of journeys between North Texas and Houston are personal accounting for over 75% of the total journeys.

Texan business travelers surveyed showed overwhelming support for the high-speed train, with 81% indicating that they “definitely” or “probably would” use the service on their next journey, and 70% of personal travelers showing similar support.

Business travelers also expressed a particularly strong preference to travel by high-speed train, even those who are regular air travelers. This reflects the superior offering of the high-speed train service.



## TEXANS ARE NOT SATISFIED WITH THEIR CURRENT CHOICES FOR TRAVEL BETWEEN NORTH TEXAS AND HOUSTON

Encouragingly, almost half of survey respondents who had not traveled between Houston and North Texas in the last 12 months also indicated they “definitely” or “probably would” travel between the two metropolitan areas in the next 12 months, if the high-speed train existed.



This important finding demonstrates that Texans are not satisfied with their current choices for travel between North Texas and Houston. By providing an alternative that eliminates many of the things that keep people from making the trip in the first place, such as long journey times that make single day trips impractical, **high-speed trains have the potential to inspire exciting new journey opportunities.** The following was expressed by Texans surveyed:

*“Would love this for same day trips to attend our grandchildren’s events”*

*“My spouse and I would go for a concert or other nightlife, like, hey, let’s go do that... You don’t have to worry about driving”*

*“I want to go to games, but I can’t afford a hotel to stay overnight”*

In summary, the research shows not only that Texans are excited by the prospect of the Texas high-speed train, but also that they have a strong intention to use it for future journeys.

## OTHER CUTTING EDGE DATA SOURCES TO ESTIMATE FUTURE RIDERSHIP HAVE ALSO BEEN USED TO CORROBORATE THE RESULTS OF THE SURVEYS

Journey analysis and market sizing was carried out using a number of data sources including TxDOT traffic counters, Bluetooth sensors, US Department of Transportation flight volumes, and anonymized cell phone data. Analysis of this information included over 3 billion calculations to generate an understanding of the flow of journey volumes between North Texas and Houston. Using survey information gathered from over 4,400 respondents in the catchment area further informed the data analysis with traveler behavior and reasons for traveling.

### 3. FUTURE MARKET DEVELOPMENT

The Texas high-speed train is expected to launch in the mid-2020s. As such, the forecast level of demand for high-speed trains must be based on the total number of long distance journeys expected between Greater Houston and North Texas for decades to come. To determine the expected size of the underlying travel market, three fundamental drivers of growth were analyzed: (i) population, (ii) economic activity, and (iii) journey costs.

#### POPULATION TRENDS WILL FAVOR TRAVEL MARKET GROWTH IN TEXAS

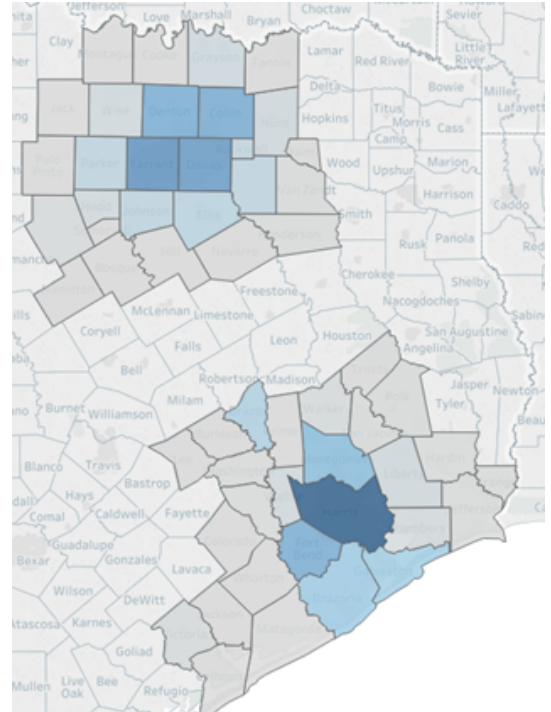
Simply put, more people living in the region means more journeys between the Greater Houston and North Texas. Forecasts estimate the population in the 66 relevant counties of the Houston–North Texas corridor to grow at 1.5% per year to 2050, **almost twice the US national average**. This will add an additional 10 million residents to the area by 2050, over 90% of which are expected to reside in the urbanized areas of Greater Houston and North Texas. This will underpin significant growth to the underlying travel market.

#### A STRONG TEXAN ECONOMY STIMULATES GROWTH IN THE TRAVEL MARKET

Changes in levels of economic activity will have a direct impact on travel across the region. Rising incomes are an important influence on demand for travel, not only because people with higher incomes tend to make more trips, but also because income levels influence decisions about which modes of travel to use.

Texas State GDP has been growing considerably faster than the US national average since 1997. Strong growth in levels of economic activity is expected to continue in the Greater Houston–North Texas region, with growth rates of

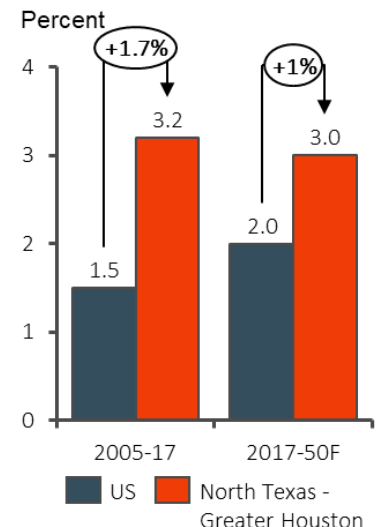
High population growth in the catchment will drive increasing journey volumes



Estimated Catchment Population increase 2017-50F  
(thousands)



Actual & forecast GDP growth  
2005-2050F



3.0% per year over the forecast period to 2050 (compared to 2.0% per year for the rest of the United States). This increase in wealth will support significant growth in the underlying travel market.

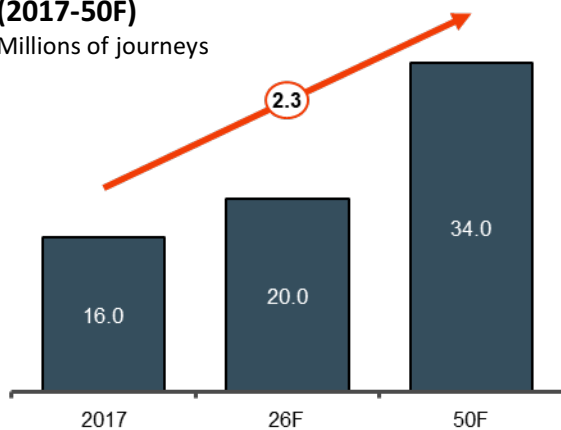
## STEADY FUEL COSTS SUPPORT STEADY GROWTH OF THE TEXAS TRAVEL MARKET

Changes in journey costs will also have an impact on the travel market between Greater Houston and North Texas. Journey costs change with fuel prices and vehicle fuel efficiency. Underlying trends in the oil market suggest a steady increase in fuel prices in real terms throughout the forecast period, while improving technology and environmental regulations will drive significant improvements in vehicle fuel efficiency out to 2050. In combination, the changes in price and efficiency factors suggests fuel cost per mile is likely to remain relatively stable between 2017 and 2050 in real terms.

## MORE THAN 34 MILLION JOURNEYS WILL BE MADE BETWEEN NORTH TEXAS AND GREATER HOUSTON IN 2050

### Forecast growth of the travel market (2017-50F)

Millions of journeys



As a result of the underlying trends in population, economic activity and journey costs, the size of the travel market between Greater Houston and North Texas is expected to grow at 2.3% per year over the forecast period, resulting in a total of just under 20 million journeys in 2022 and just over 34 million journeys in 2050. This is independent of the introduction of the Texas high-speed train, which is expected to stimulate further journeys beyond the 34 million forecasted.

## AUTONOMOUS VEHICLES – IMPROVEMENTS IN MOBILITY

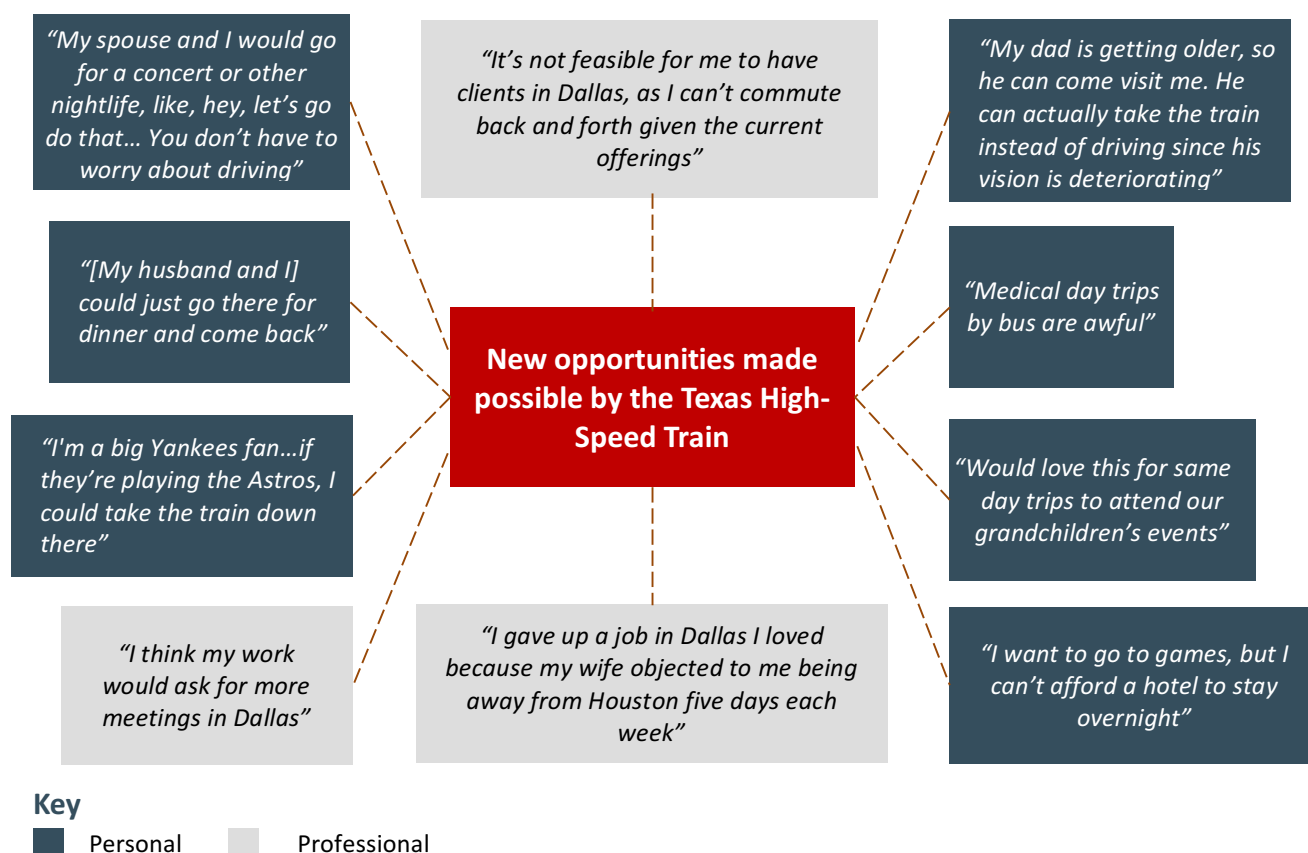
The rollout of autonomous vehicles (AVs) in the future is expected to occur initially in dense urban areas in the 2020s, as these locations will have the best business case for introducing AV technology. This will **complement the Texas high-speed train service by making it cheaper and more convenient to access and leave from the stations.** Autonomous vehicles will also widen access to the train for those unable or not willing to drive. If technology improves and autonomous vehicles are able to operate cost effectively on door-to-door journeys between North Texas and Houston, they may bring further benefits to traveling by road. Even then, they will never be as fast as the high-speed train for these journeys.

## 4. PASSENGER DEMAND FOR THE TEXAS HIGH-SPEED TRAIN

The Texas high-speed train will drive growth in the travel market beyond trends in population, economic activity and journey costs as it transforms transportation in Texas.

### THE TEXAS HIGH-SPEED TRAIN WILL STIMULATE NEW JOURNEYS ACROSS TEXAS

Research findings indicate many new journeys will take place, as the existence of the high-speed train stimulates additional travel demand. Below are just a few representative examples of Texans describing how the high-speed train could impact their lives:



This additional demand from new journey opportunities will increase the total size of the Texas travel market. Our estimates suggest that with the introduction of the Texas high-speed train, complemented by natural growth in journeys due to the economy, total journeys across all modes of travel will rise from 16 million in 2017 to 40 million by 2050. The Texas high-speed train will improve the overall mobility of the catchment and make more journeys and personal connections possible.



## **OVER 6 MILLION PASSENGERS ARE FORECAST TO USE THE TEXAS HIGH-SPEED TRAIN BY 2029 AND 13 MILLION PASSENGERS BY 2050**

Bringing together end-to-end journey time analysis, primary market research on perceptions of high-speed trains, and long distance travel market size estimates, it is possible to develop estimates for future levels of demand for the Texas high-speed train.

We forecast that, following the initial introduction and adoption period in the late-2020s, the number of journeys on the Texas high-speed train will reach nearly 6.5 million, representing over 25% of the total number of long distance journeys between Houston and North Texas. By 2050, the Texas high-speed train's share of the total travel market is forecast to reach almost 35%, or approximately 13 million journeys.

### **TEXAS CENTRAL WILL DELIVER A SAFER, MORE PRODUCTIVE, FASTER AND MORE RELIABLE TRAVEL OPTION FOR TEXANS AND DRIVE THE TEXAS ECONOMY**

Texas Central is a privately funded company utilizing a unique investor-owned model to bring a new travel option and a brand-new industry to the state. With a group of primarily Texan investors, Texas Central is poised to launch high-speed train service with Texan entrepreneurial values in mind. This project is not backed by government grants and will not require operating subsidies.

Texas Central has spent millions of dollars to establish a sophisticated understanding of Texans' demand for more and better travel choices between Houston and North Texas. As this study demonstrates, the company relies on the most technologically advanced data and research to inform its decisions. That's the investor-owned approach in action – data driven decisions paired with fiscal discipline and careful scrutiny of economic models and timelines which are updated over time. Private projects must demonstrate that there is a viable market before a project is built. The market identified and described by this latest study demonstrates strong, pent-up demand for better travel options in Texas and demonstrates how the high-speed train will make a significant impact on the Texas travel market. Further, the number of riders forecast to use the train will provide the basis for the long-term commercial success of this private venture.

The project's financial and technical experts are developing the train to maximize ridership and capital efficiency. Decisions are made not based on a short-term, low cost bid basis, but on what is best for the riders' experience and the project's life cycle over the long haul. Why is this important? Because the discipline we employ results in zero risk to taxpayers.

Without the many constraints of a public endeavor, this project is more able to squarely focus on providing an exceptional customer experience, and deliver these commercial objectives, compared with other lines around the world that have arbitrary political hurdles to overcome. In addition, management of the train will have far greater scope to change schedule, service and ticketing to improve the offer for riders and maximize profits, while staff at all levels can be incentivized to deliver ambitious objectives.

This project has also developed an integrated team of experts who have successfully financed, built, deployed and operated high-speed trains in markets and countries across the globe. From an engineering perspective, the Texas market is free from many of the challenges other markets face like mountains, tunneling and major seismic activity. And, the technology deployed has a more than 54 year perfect safety record of no crashes or fatalities as a result of operations and an unmatched on time arrival record.

By deploying world-class proven technologies and cutting edge commercial strategies, we can expect the Texas high-speed train to deliver more passengers over and above equivalent state-run ventures.

## **THE TEXAS HIGH-SPEED TRAIN WILL TRANSFORM TRAVEL FOR TEXANS**

The high-speed train will provide Texans with a faster, safer, more convenient and reliable alternative to driving or flying. Our research has illustrated that the high-speed train will not only save travelers time on their journeys, but Texans are already excited by the prospect of high-speed trains, and say they will make more journeys because of it. For all of these reasons, the high-speed train is set to transform travel in Texas and bring a new high-tech industry to the country and the Lone Star State.



## **ABOUT TEXAS CENTRAL**

Texas Central is developing a new high-speed train that will connect North Texas, the Brazos Valley and Houston, using proven, world-class technology. The 90-minute trip will provide a safe, reliable and productive transportation alternative. The company's market-led approach is backed by investors, not government grants, a new business model for infrastructure advances. Texas Central and its affiliated entities will be responsible for the system's design, finance, construction, operation and maintenance.

For more information, go to [www.texascentral.com](http://www.texascentral.com)



## **ABOUT L.E.K. CONSULTING**

L.E.K. Consulting is a global management consulting firm that uses deep industry expertise and rigorous analysis to help business leaders achieve practical results with real impact. We are uncompromising in our approach to helping clients consistently make better decisions, deliver improved business performance and create greater shareholder returns.

The firm advises and supports global companies that are leaders in their industries — including the largest private and public sector organizations, private equity firms, and emerging entrepreneurial businesses. Founded in 1983, L.E.K. employs more than 1,400 professionals across the Americas, Asia-Pacific and Europe.

For more information, go to [www.lek.com](http://www.lek.com)

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