FUTURE OF TRANSIT IN DALLAS-FORT WORTH: FIRST MILE CONNECTIONS TO HIGH-SPEED RAIL

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nctcog.org/input
Overview: Creation of “System”

First Mile Connections

New Areas: “Integrated” Planning

Guaranteed Transit

Hyperloop

High Speed Rail
Mobility 2045

Areas of Potential Demand for People Movers

Derived from an analysis of future population and employment density, employment type, current and future land use, modeled short trip density, transit proximity, and airport passenger movements.
Recommended Projects

- SW Medical District
- Love Field
- Arlington to DFW
- Downtown Fort Worth
- Legacy/Stonebriar Area
- General Motors
- Midtown
People Mover and Transit Recommendations
Technology Selection

Criteria

- Qualitative Screening
- Ridership Estimates
- Infrastructure Needs
- System Compatibility
- Diverse Technologies

Vehicles

- Automated People Mover
- Monorail
- Group Rapid Transit
- Autonomous Vehicles
Midtown Automated Transportation System Study

EARLY CONCEPT OPTIONS
Option 2

Percent of total Midtown area within catchment area:
< 1/10 mile: 70%
< 1/4 mile: 99%

Pros:
~ 5M SQFT of planned development along LBJ
Could represent 15-20% of total district development
Parking Catchment Area along boundary of Midtown

Cons:
Existing ROW pinch along southern stretch
Midtown Park would be ~800-3,000 feet away from ATS
High-Intensity Bus Concept

Premium amenities onboard and at stations
Characteristics of Premium Transit Services that Affect Choice of Mode:
TCRP Report 166
Guaranteed travel time via tolled managed lanes or free fare
Low cost alternative
Grant commitment in multi-modal corridor
Regional Transportation Council (RTC) funded $14M for pilots
What is Hyperloop?

New Mode of Transportation Consisting of Moving Passenger and Cargo Vehicles Through a Near-Vacuum Tube Using Electric Propulsion

Autonomous Pod Levitates Above the Track and Glides at 700+ MPH Over Long Distances

Source: Virgin Hyperloop One
Hyperloop Test Track

Source: Virgin Hyperloop One
Passenger Pod

Source: Virgin Hyperloop One
High Speed Rail

Corridor-specific alignment, design, and operational characteristics for the intercity passenger, regional passenger, and freight rail systems will be determined through capacity evaluation and ongoing project development. Refined rail forecasts are necessary to determine technology and alignment in future rail corridors.
High-Speed Rail Policies

Connected System
“One Seat Ride”
Three Stations
  Fort Worth
  Arlington
  Dallas

Source: Getty Images
Dallas Station Area Efforts

Station Location Identified by Texas Central Railway
Monitoring Westward Alignment Opportunities

Coordination Efforts

- Texas Central Railway Project
- DART
- TxDOT
- City of Dallas
- NCTCOG Environmental Impact Statement Effort

Analyzing Multimodal Center and HSR Connectivity
Dallas Multimodal Center Study
Proposed Arlington Station Location
Proposed Fort Worth Station Location
Additional Focus From Fort Worth to Laredo