Hyperloop Texas
Towards Next Generation Mobility

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AECOM
History of Hyperloop
What is Hyperloop

• New mode of transportation consisting of moving passenger or cargo vehicles through a near-vacuum tube using electric propulsion

• Autonomous pod levitates above the track and glides at 700 mph+ over long distances
History of Hyperloop

Hyperloop Texas
History of Hyperloop

Hyperloop Texas
Riding Hyperloop
How does it work?
Electric Vehicle Range Extender
Packetized Transportation

Hyperloop Texas
On Demand Headways

Hyperloop Texas
Active Hyperloop Technology Companies

- **Hyperloop One**
  
  BE ANYWHERE. MOVE ANYTHING. CONNECT EVERYONE.

- **SpaceX**

- **Hyperloop**

- **ARRIVO**

- **Hyperloop Texas**
Hyperloop One Global Challenge

- Contest to identify and select locations around the world with the potential to develop and construct the world’s first Hyperloop networks
- 2,600+ registrants from more than 100 countries
- AECOM is a partner with Hyperloop One, building test track in Las Vegas and studying connection to Port of LA
- Hyperloop Texas proposal is one of 10 global winners of the competition, selected to further advance Hyperloop concepts in the state.
VISION FOR AMERICA

1. COLORADO HYPERLOOP
   - 342 miles
   - Denver to Colorado Springs in 6.2 min

2. ROCKY MOUNTAIN HYPERLOOP
   - 360 miles
   - Anywhere on the CO front range in less than 30 min

3. PACIFIC NORTHWEST HYPERLOOP
   - 713 miles
   - Portland to Seattle in 17.2 min

4. HYPERLOOP NEVADA
   - 404 miles
   - 2.6M people served
   - Reno to Las Vegas in 42.3 min

5. HYPERLOOP WEST
   - 121 miles
   - 16.6M people served
   - Los Angeles to San Diego in 12.5 min

6. RMC HYPERLOOP
   - 1,152 miles
   - 17.7M people served
   - Route extends from Cheyenne to Houston

7. HYPERLOOP MIDWEST
   - 448 miles
   - 13.8M people served
   - Columbus to Pittsburgh in 17.9 min

8. HYPERLOOP MASSACHUSETTS
   - 64 miles
   - Connects 5.6M people
   - Boston to Somersett in 5.3 min

9. HYPERLOOP MISSOURI
   - 240 miles
   - Connects 3M people
   - Kansas City to Columbia in 12.9 min

10. HYPERLOOP TEXAS
    - 640 miles
    - Dallas to Austin in 19.5 min

11. HYPERLOOP FLORIDA
    - 257 miles
    - Miami to Orlando in 24.7 min

AECOM
GLOBAL CHALLENGE
WINNING ROUTES

US
CHICAGO-COLUMBUS-PITTSBURGH

US
CHEYENNE-DENVER-PUEBLO

US
MIAMI-ORLANDO

MEXICO
MEXICO CITY-GUADALAJARA

US
DALLAS-LAREDO-HOUSTON

UK
GLASGOW- LIVERPOOL

UK
EDINBURGH-LONDON

INDIA
MUMBAI-CHENNAI

INDIA
BENGALURU-CHENNAI

10 Routes | 3 Continents | 5 Countries
53 urban centers | 6,000+ km | 148+ million people connected

hyperloop one
Hyperloop SpaceX Pod Competition
QUESTION:
What happens when a megaregion with five of the eight fastest growing cities in the US operates as ONE?
US | DALLAS-LAREDO-HOUSTON
TEAM: TEXAS TRIANGLE

Total Length: 1030 km
IT’S ALL ABOUT THE NUMBERS
5/8
TOP 5 OF THE 8 FASTEST GROWING CITIES IN THE UNITED STATES
1,100
1,100

PEOPLE MOVE TO TEXAS EVERY DAY

www.sacurrent.com/the-daily/archives/2016/12/20/more-people-moved-to-texas-in-2016-than-any-other-state
33 MILLION
33 MILLION

POPULATION OF TEXAS BY 2030
NEARLY PRESENT DAY CANADA

Texas State Demographer's Office
75% of the state population within the Texas Triangle.
10th

LARGEST ECONOMY IN THE WORLD

$1.6 TRILLION GDP, LARGER THAN RUSSIA

Texas Governor Abbott, 2016
FLAT TOPOGRAPHY
IDEAL DISTANCE BETWEEN METROS
SIGNIFICANT LAND, SEA, AIR PORTS
INTERFACING WITH OTHER NEW TECHNOLOGY
INTERFACING WITH OTHER NEW TECHNOLOGY
What happens to cities?
Real estate?
Urban design?
Industries?
1.4 million new people are moving into cities every week.

People are drawn to cities as centres of economic activity, social connection, opportunity, and innovation.
Parking to infill development.

Increased density and walkability.

Tension with...
Extending the reach of the American edge city.
Self organizing streets?
Queuing reigns supreme?
Just in Time Delivery Logistics
The Future Garage?
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