

# Memorandum



DATE October 3, 2017

CITY OF DALLAS

Honorable Members of the Mobility Solutions, Infrastructure and Sustainability  
TO Committee: Lee M. Kleinman (Chair), Rickey D. Callahan (Vice-Chair), Sandy  
Greyson, Adam Medrano, Casey Thomas, II and Tennell Atkins

SUBJECT **Hyperloop Texas**

On Monday, October 9, 2017, you will be briefed on Hyperloop Texas. The briefing materials are attached for your review.

Please feel free to contact me if you have any questions or concerns.

A handwritten signature in blue ink, appearing to read 'Majed A. Al-Ghafry'.

Majed A. Al-Ghafry  
Assistant City Manager

[Attachment]

c: Honorable Mayor and Members of the City Council  
T.C. Broadnax, City Manager  
Larry Casto, City Attorney  
Craig D. Kinton, City Auditor  
Billierae Johnson, City Secretary (Interim)  
Daniel F. Solis, Administrative Judge  
Kimberly Bizer Tolbert, Chief of Staff to the City Manager  
Jo M. (Jody) Puckett, Assistant City Manager (Interim)

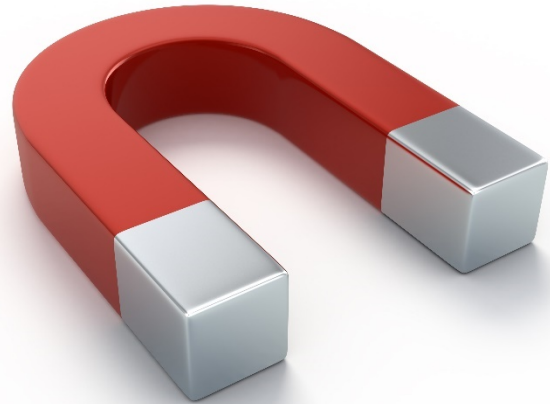
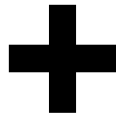
Jon Fortune, Assistant City Manager  
Joey Zapata, Assistant City Manager  
M. Elizabeth Reich, Chief Financial Officer  
Nadia Chandler Hardy, Chief of Community Services  
Raquel Favela, Chief of Economic Development & Neighborhood Services  
Theresa O'Donnell, Chief of Resilience  
Directors and Assistant Directors

# Hyperloop Texas

Hyperloop Global Challenge Winning Proposal



# History of Hyperloop



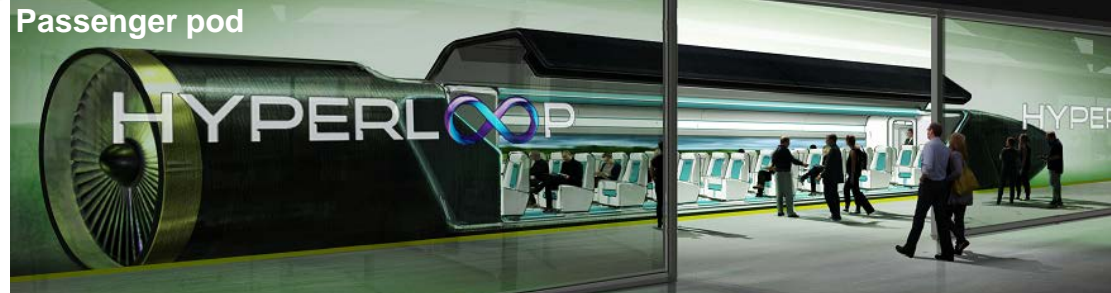


# What is Hyperloop

- 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

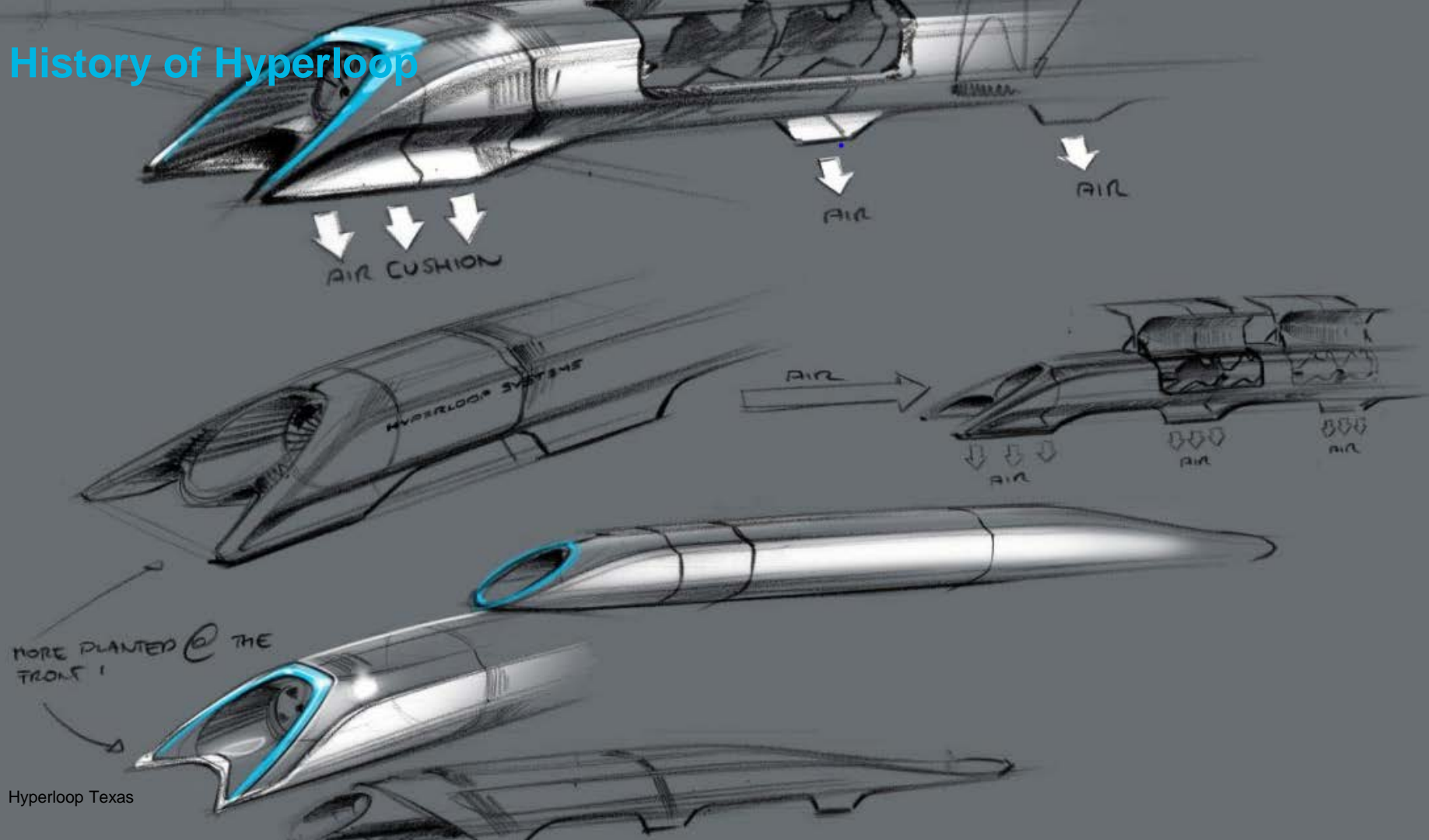


Cargo pod



Passenger pod

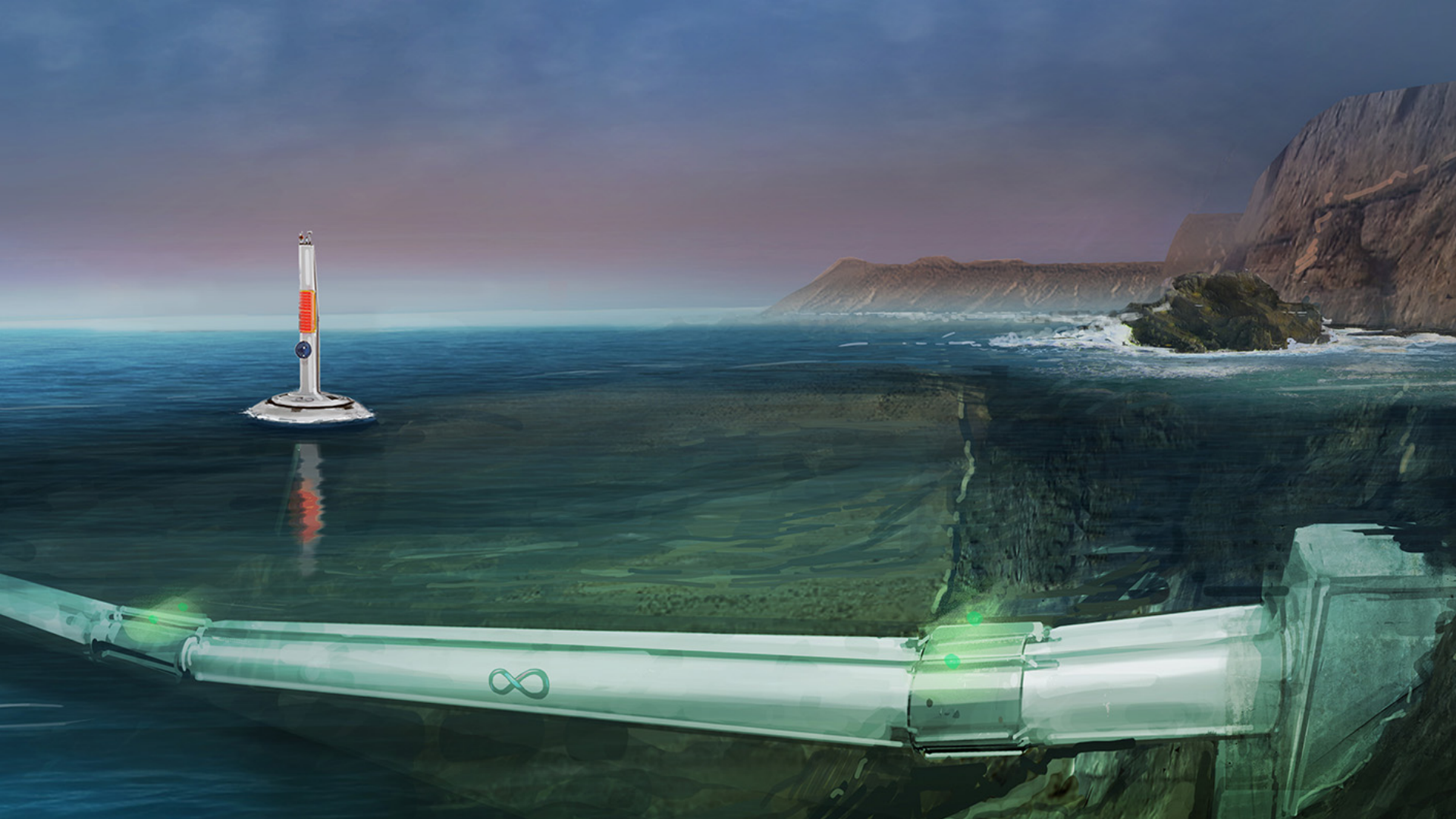
# History of Hyperloop



# History of Hyperloop

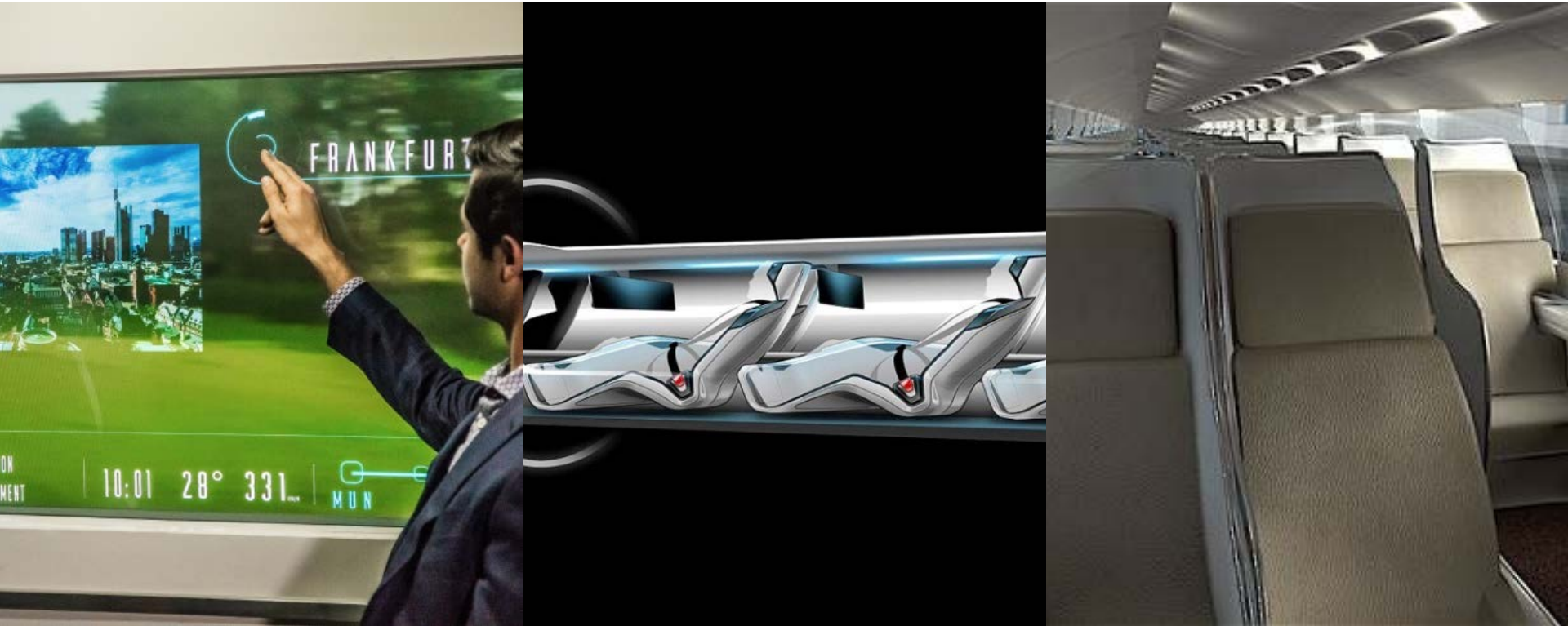








# Riding Hyperloop





∞ XP-1

hyperloop one







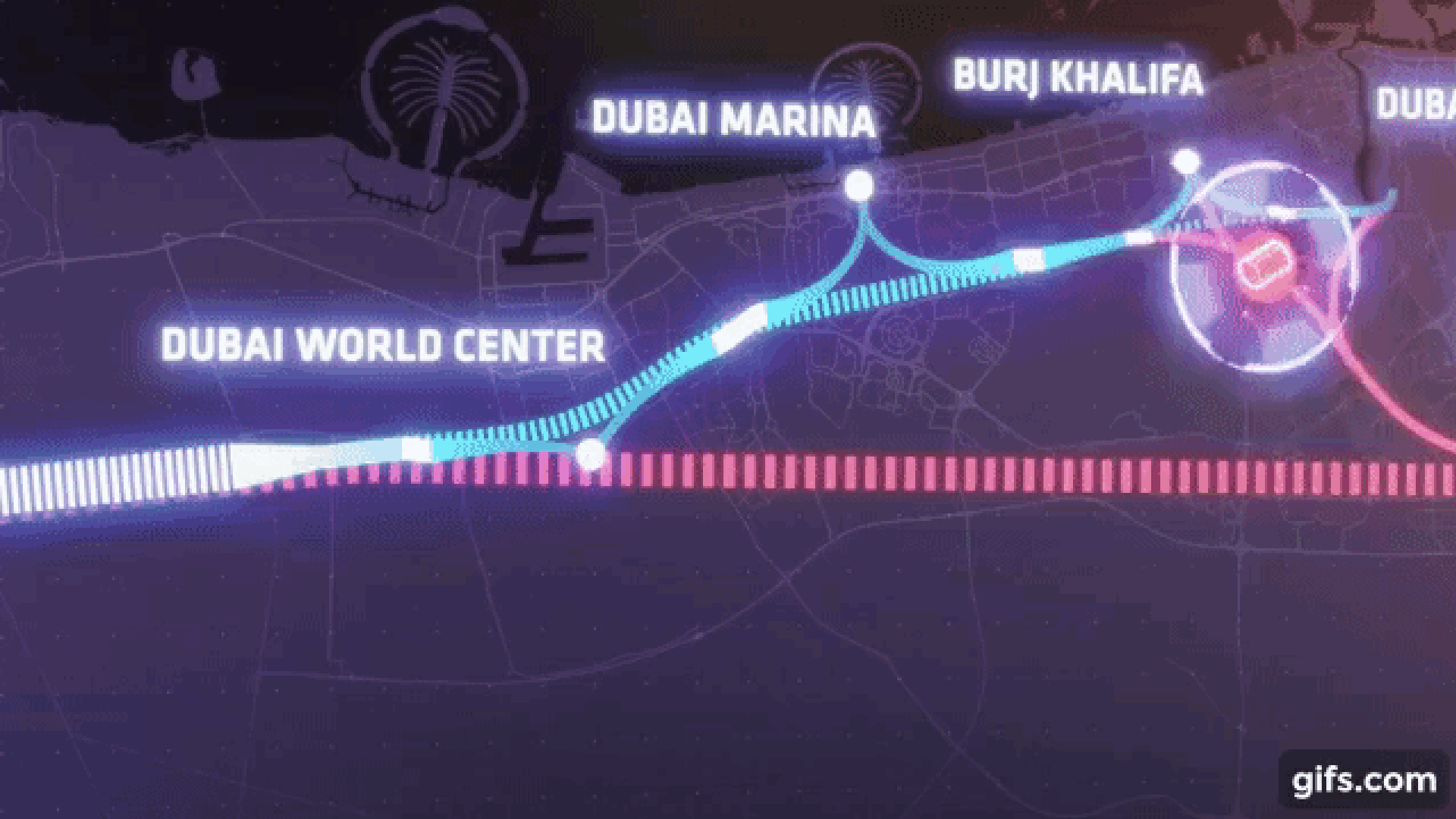
## How does it work?







hyperloop | one

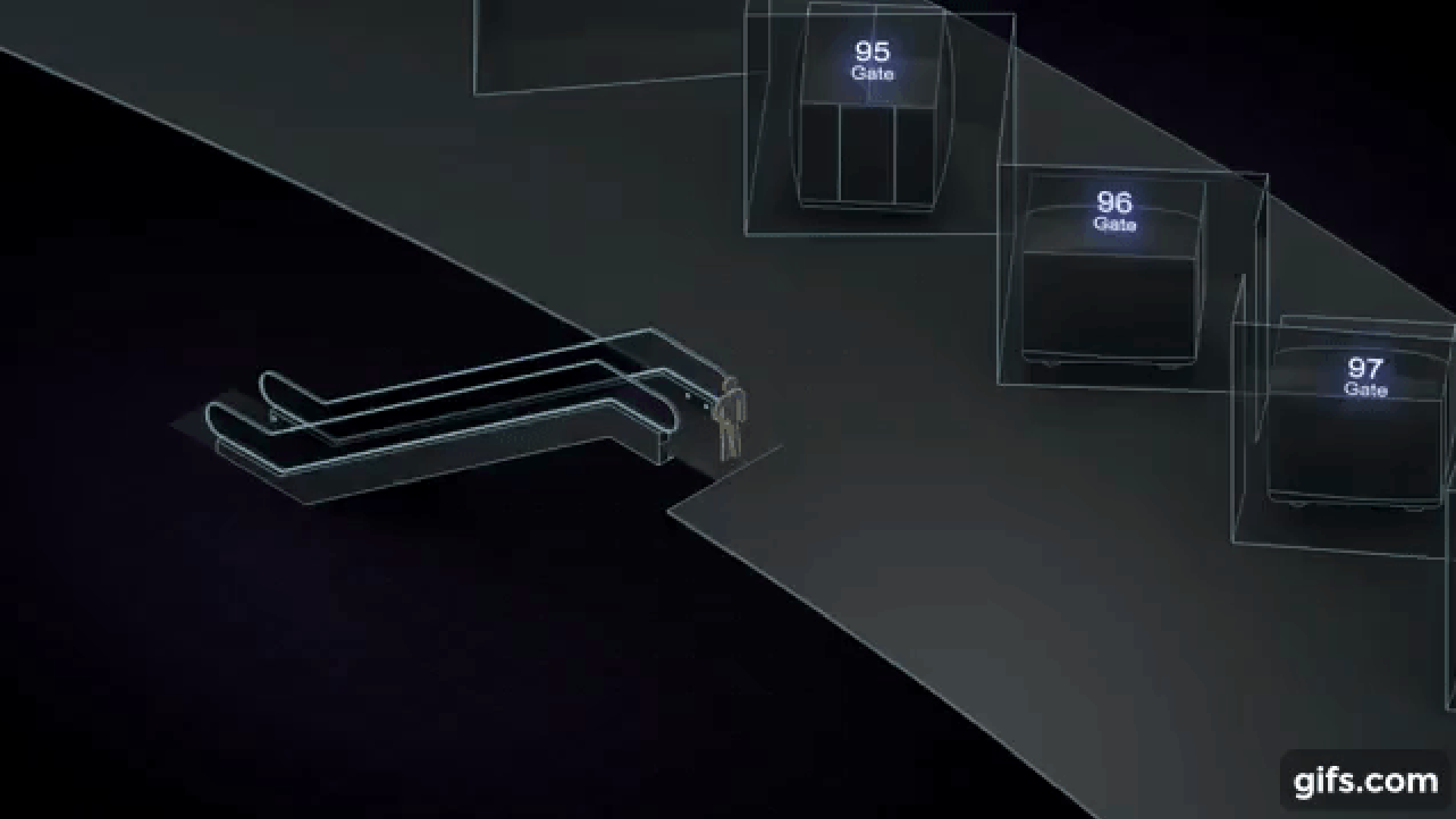


DUBAI WORLD CENTER

DUBAI MARINA

BURJ KHALIFA

DUBAI



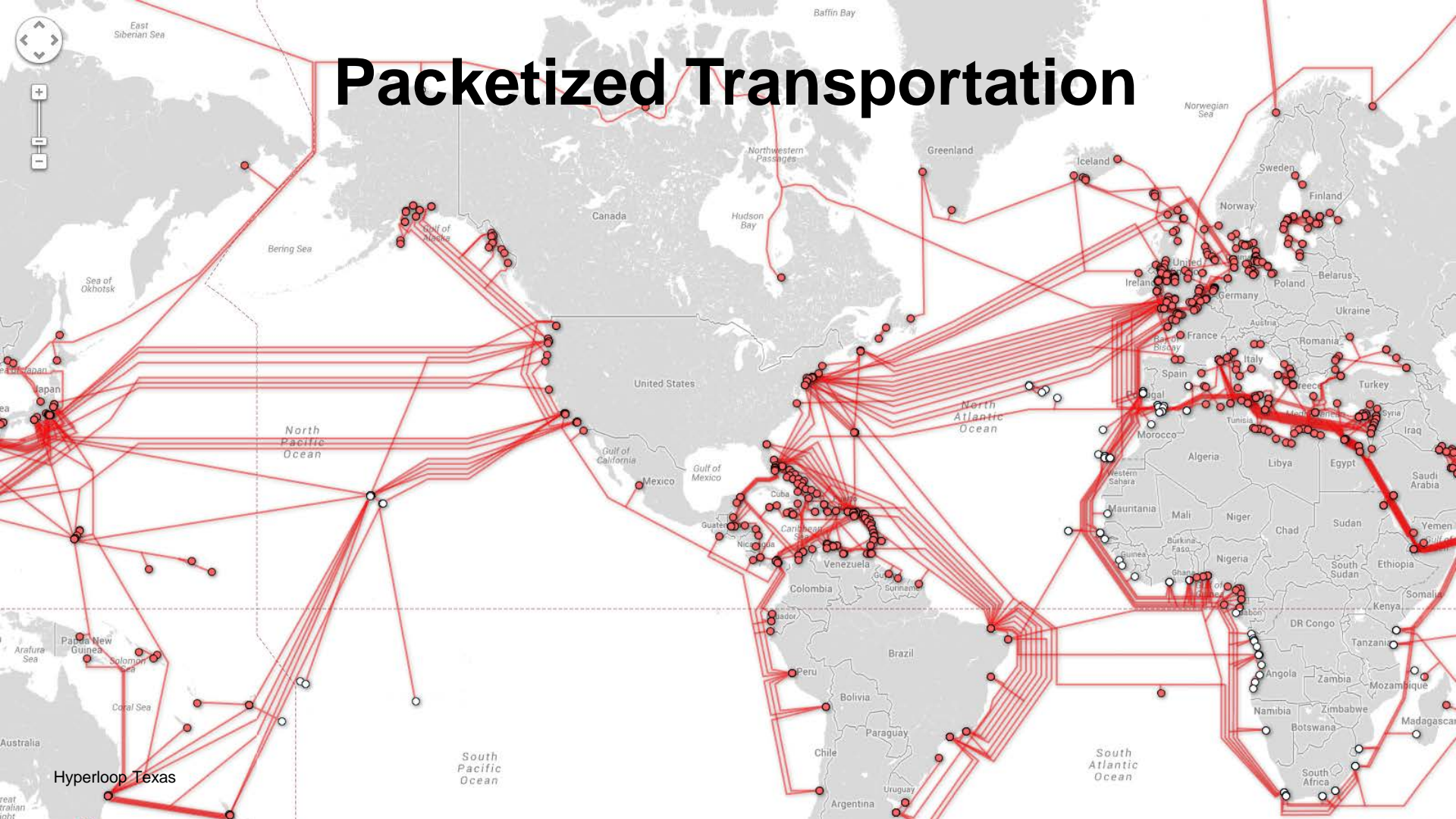




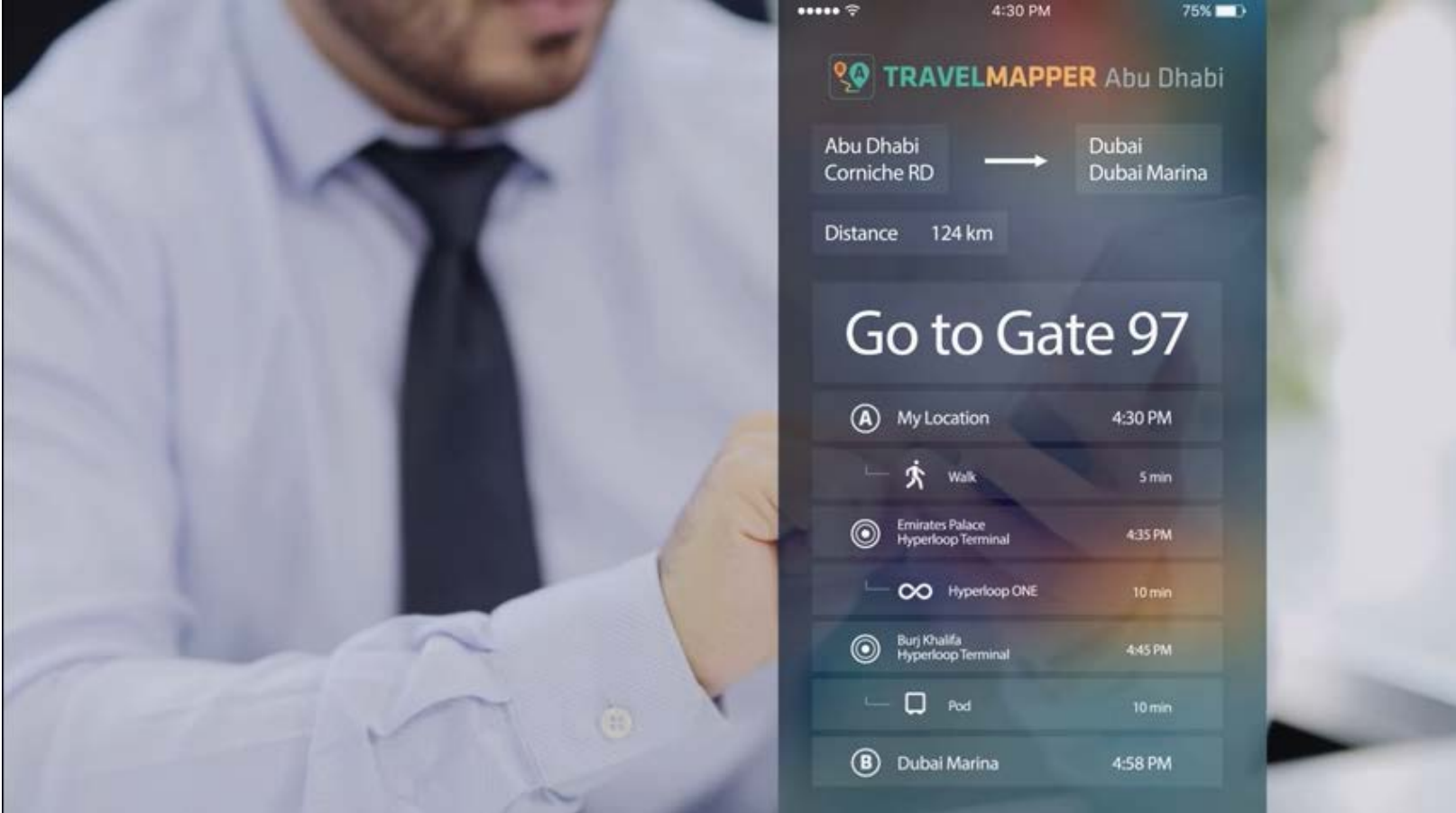
# Electric Vehicle Range Extender



# Packetized Transportation



# On Demand Headways



# History of Hyperloop

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BE ANYWHERE. MOVE ANYTHING. CONNECT EVERYONE.

SPACEX



**HYPERLOOP**



# 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

hyperloop | one

1

## COLORADO HYPERLOOP

- 242 miles
- Denver to Colorado Springs in 6.2min

2

## ROCKY MOUNTAIN HYPERLOOP

- 360 miles
- Anywhere on the CO front range in less than 30min

3

## PACIFIC NORTHWEST HYPERLOOP

- 173 miles
- Portland to Seattle in 17.2min

4

## HYPERLOOP NEVADA

- 454 miles
- 2.6M people served
- Reno to Vegas in 42.3min

5

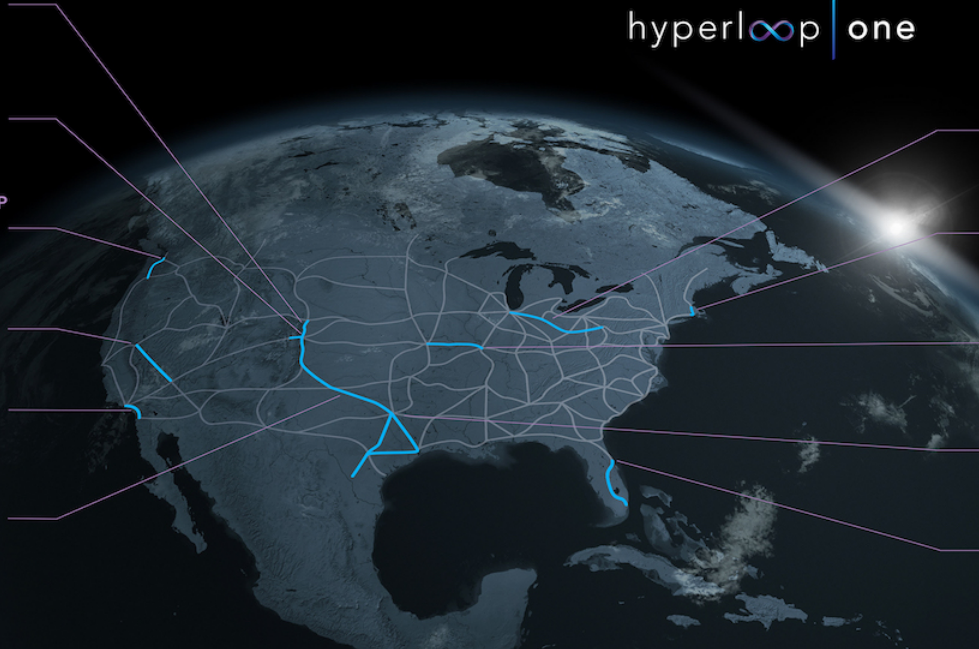
## HYPERLOOP WEST

- 121 miles
- 16.6M people served
- Los Angeles to San Diego in 12.5min

6

## RMC HYPERLOOP

- 1,152 miles
- 17.7M people served
- Route extends from Cheyenne to Houston



7

## HYPERLOOP MIDWEST

- 488 miles
- 13.8M people served
- Columbus to Pittsburgh in 17.9min

8

## HYPERLOOP MASSACHUSETTS

- 64 miles
- Connects 6.4M people
- Boston to Somerset in 5.3min

9

## HYPERLOOP MISSOURI

- 240 miles
- Connects 5M people
- Kansas City to Columbia in 12.9min

10

## HYPERLOOP TEXAS

- 640 miles
- Dallas to Austin in 19.5min

11

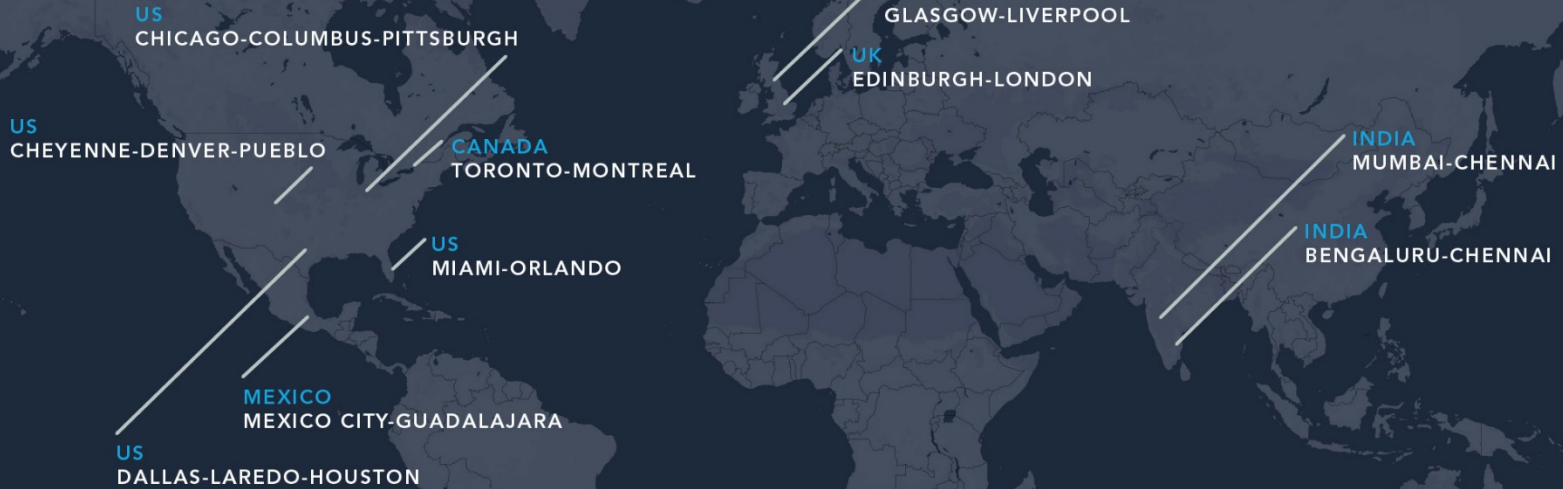
## HYPERLOOP FLORIDA

- 257 miles
- Miami to Orlando in 24.7min





## GLOBAL CHALLENGE WINNING ROUTES



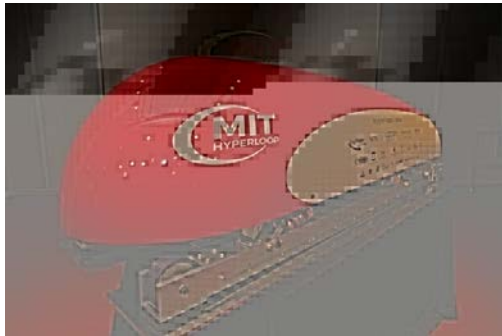
© Hyperloop One, © Mapbox, © OpenStreetMap

10 Routes | 3 Continents | 5 Countries

53 urban centers | 6,000+ km | 148+ million people connected

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# Hyperloop SpaceX Pod Competition





## QUESTION:

What happens when a megaregion with five of the eight fastest growing cities in the US operates as **ONE**?





GLOBAL CHALLENGE  
WINNING ROUTE

# US | DALLAS-LAREDO-HOUSTON

TEAM: TEXAS TRIANGLE

Total Length: 1030 km

242 km  
16 min

121 km  
8 min

322 km  
19 min

346 km  
21 min

DFW

DALLAS

AUSTIN

HOUSTON

SAN ANTONIO

HOUSTON  
PORT

LAREDO

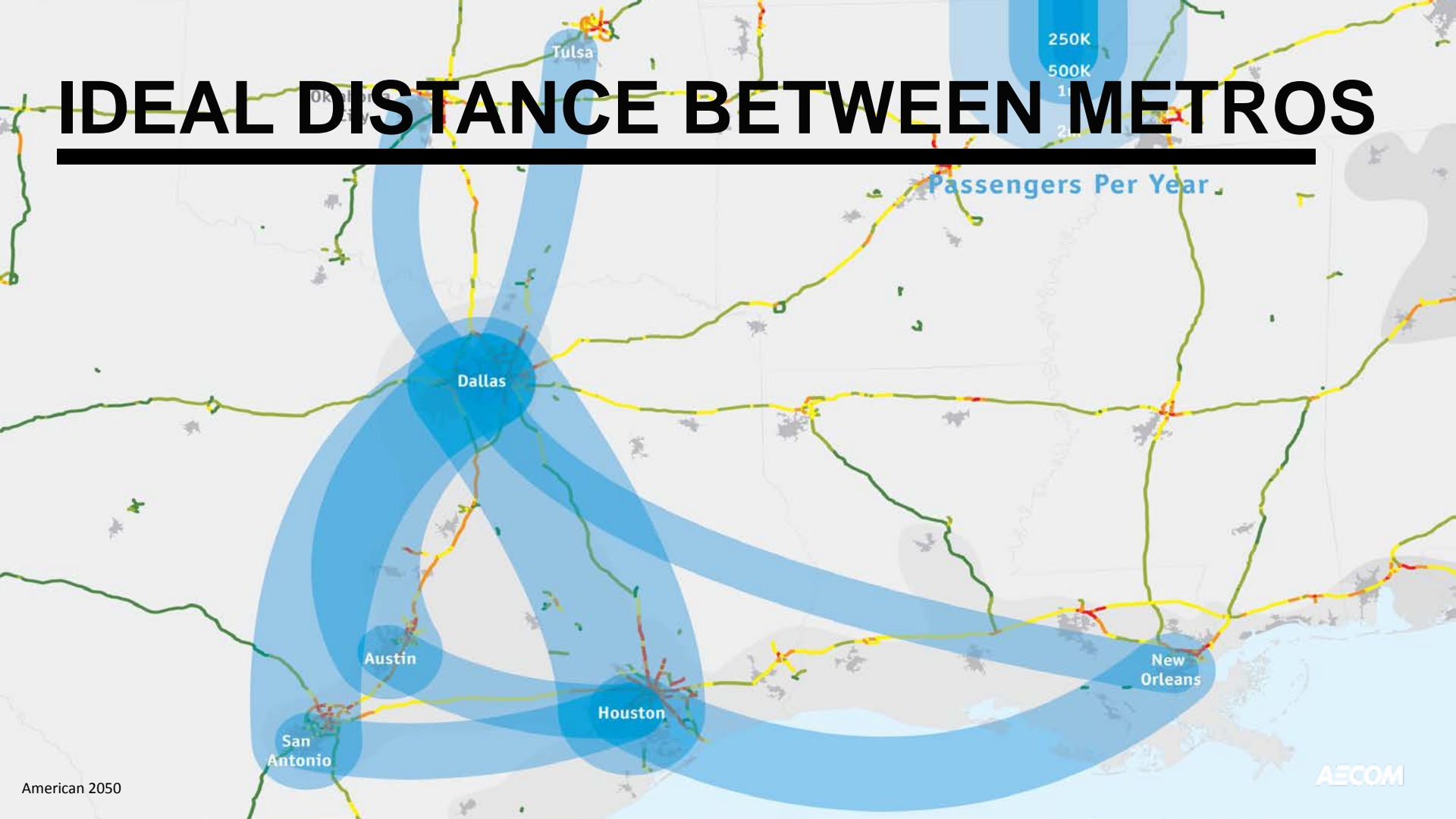
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# FLAT TOPOGRAPHY

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# IDEAL DISTANCE BETWEEN METROS

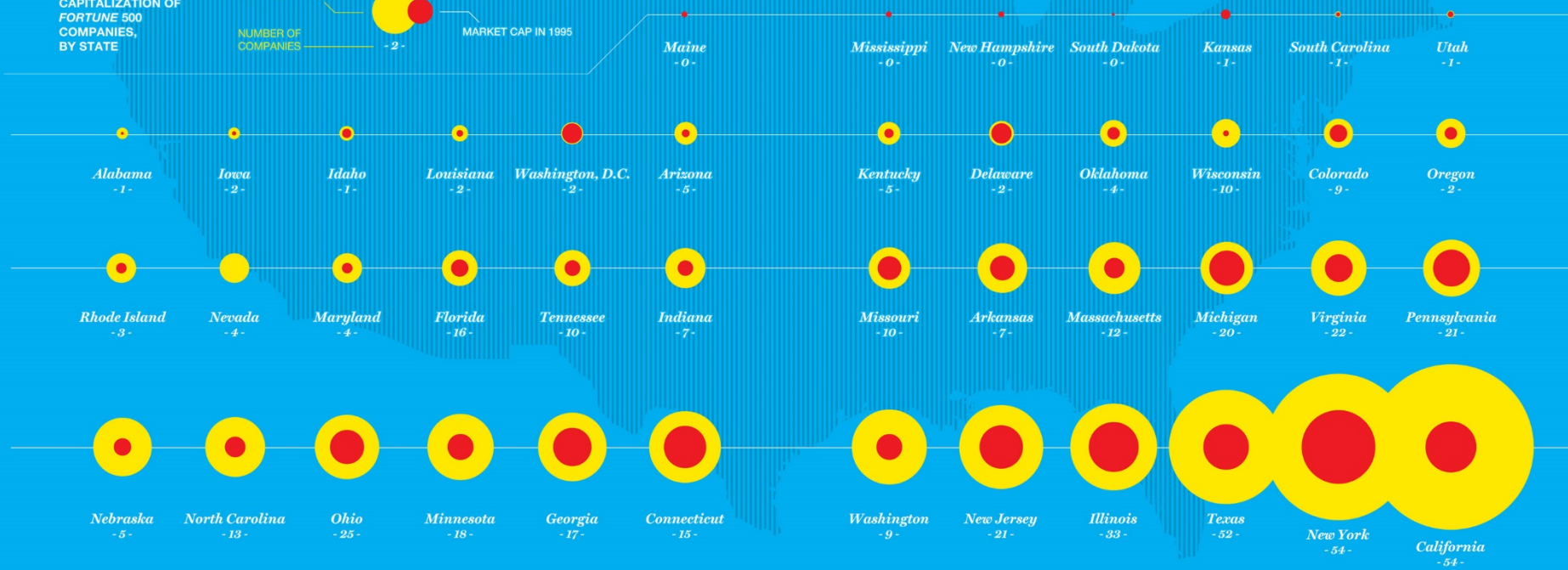




# FORTUNE 500 HQs

MARKET CAPITALIZATION OF FORTUNE 500 COMPANIES, BY STATE

CURRENT MARKET CAP  
NUMBER OF COMPANIES





# SIGNIFICANT LAND, SEA, AIR PORTS





# SUPER COMMUTERS







**AECOM**

Imagine it.  
Delivered.

For more information:  
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[steven.duong@aecom.com](mailto:steven.duong@aecom.com)  
<http://www.hyperloop-tx.com/>