Hyperloop Texas Towards Next Generation Mobility

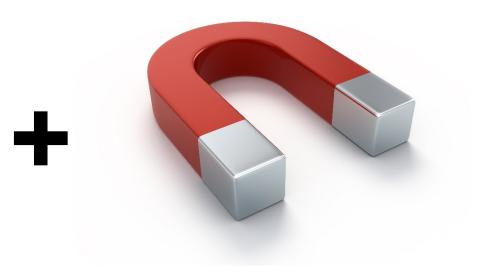
Steven Duong, AICP Senior Urban Designer AECOM

Presentation Agenda

- About the Technology
 - Global Challenge
- Coming to Austin and Texas
- Interfacing with Other Mobility Solutions

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

HYPERLOOP : 440

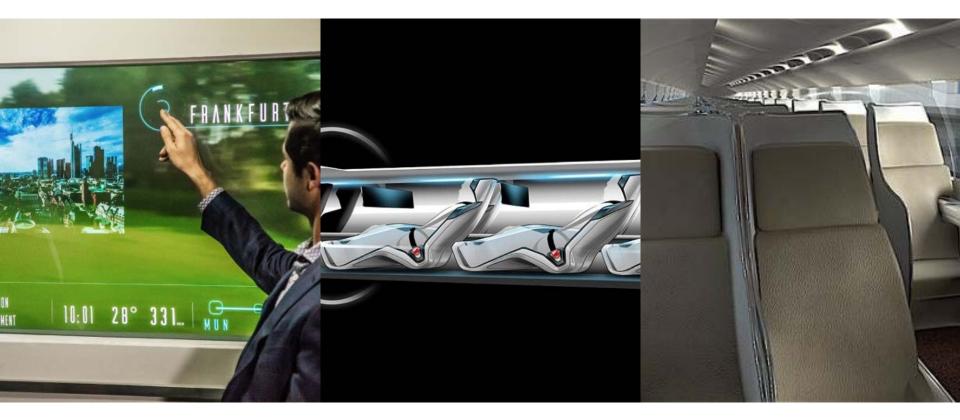
Passenger pod

hyperloop one

History of Hyperloop



Riding Hyperloop







How does it work?





hyperl∞p | one

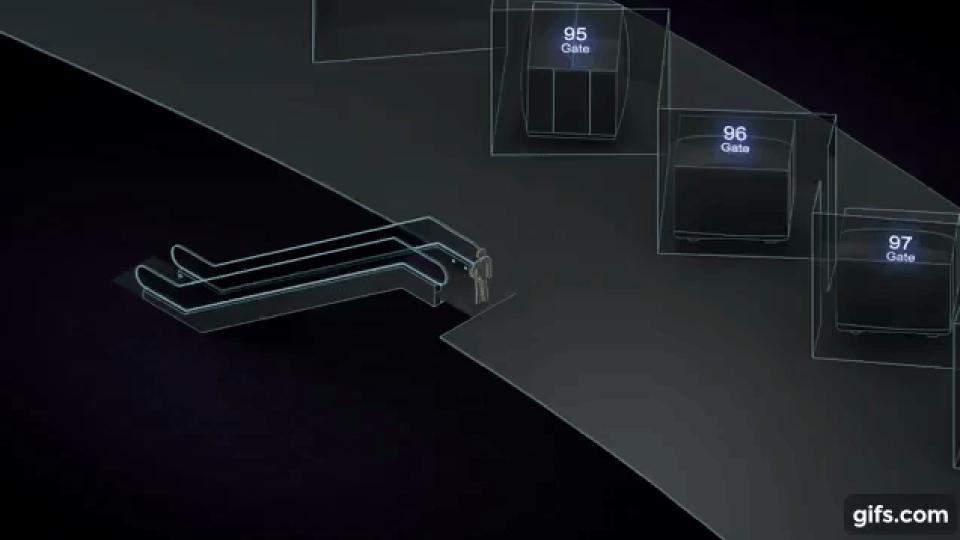
DUBAI MARINA

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gifs.com

DUBAI WORLD CENTER

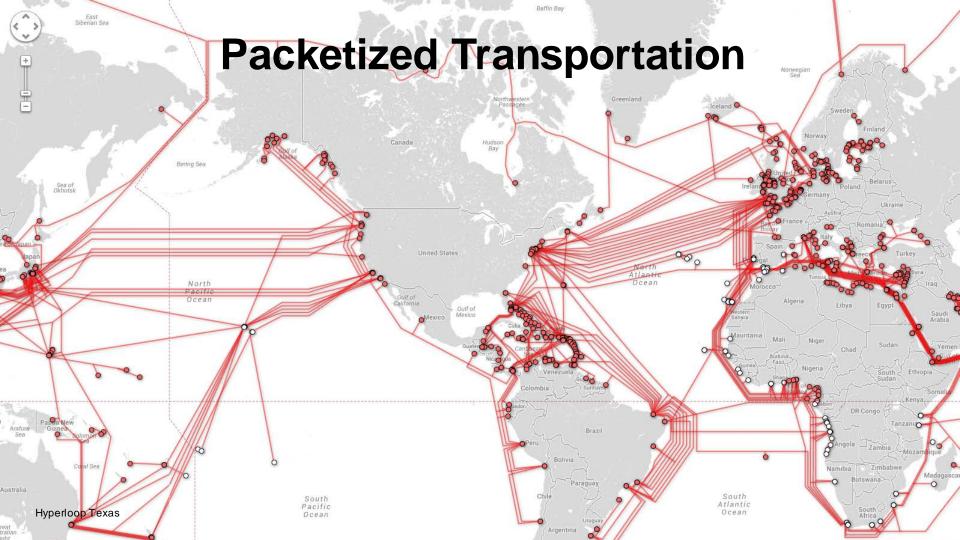




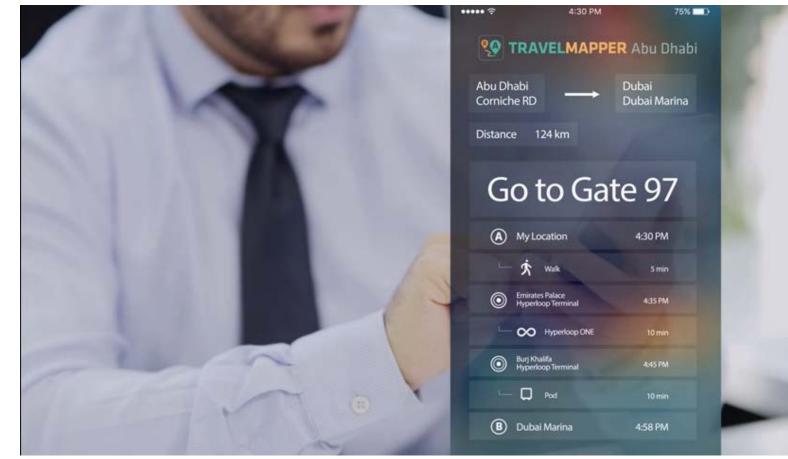
Electric Vehicle Range Extender







On Demand Headways





Active Hyperloop Technology Companies

hyperloop one SPACEX

BE ANYWHERE. MOVE ANYTHING. CONNECT EVERYONE.



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.



COLORADO HYPERLOOP

242 miles Denver to Colorado Springs in 6.2 min

ROCKY MOUNTAIN HYPERLOOP

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

PACIFIC NORTHWEST HYPERLOOP

 173 miles Portland to Seattle in 17.2 min

HYPERLOOP NEVADA

4

5

6

2

3

Reno to Vegas in 42.3 min HYPERLOOP WEST

2.6M people served

454 miles

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

RMC HYPERLOOP

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

VISION FOR AMERICA hyperl∞p **one**

HYPERLOOP MIDWEST

488 miles

7

8

9

11

- 13.8M people served
 Columbus to Pittsburgh in 17.9min

HYPERLOOP MASSACHUSETTS

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

HYPERLOOP MISSOURI

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

HYPERLOOP TEXAS

 640 miles Dallas to Austin in 19.5 min

HYPERLOOP FLORIDA 257 miles

· Miami to Orlando in 24.7 min

AECOM



CHICAGO-COLUMBUS-PITTSBURGH

US CHEYENNE-DENVER-PUEBLO

CANADA TORONTO-MONTREAL

MIAMI-ORLANDO

MEXICO MEXICO CITY-GUADALAJARA US DALLAS-LAREDO-HOUSTON GLASGOW-LIVERPOOL

EDINBURGH-LONDON

MUMBAI-CHENNAI

BENGALURU-CHENNAI

© Hyperloop One, © Mapbox, © OpenStreetMap

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



QUESTION:

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



FLAT TOPOGRAPHY



http://vintage.johnnyjet.com/

250K **IDEAL DISTANCE BETWEEN METROS** Passengers Per Year. Dallas Austin New Orleans Houston San Antonio American 2050

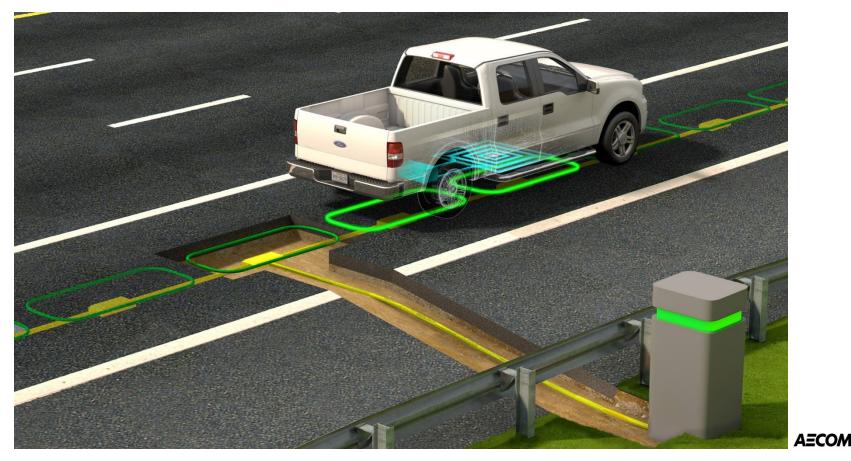
FORTUNE 500 HQs



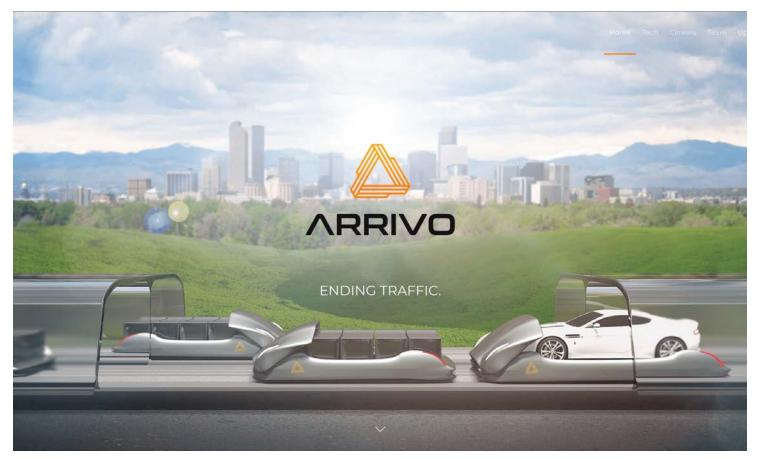
SIGNIFICANT LAND, SEA, AIR PORTS



INTERFACING WITH OTHER NEW TECHNOLOGY



INTERFACING WITH OTHER NEW TECHNOLOGY



AECOM / Imagine it. Delivered.
> For more information: **Steven Duong, AICP** <u>steven.duong@aecom.com</u> http://www.hyperloop-tx.com/

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TANKER .