## Hyperloop Texas Towards Next Generation Mobility

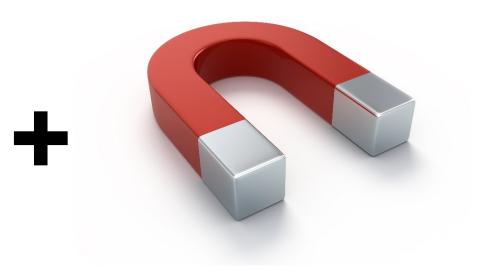
Steven Duong, AICP Senior Urban Designer AECOM

## **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

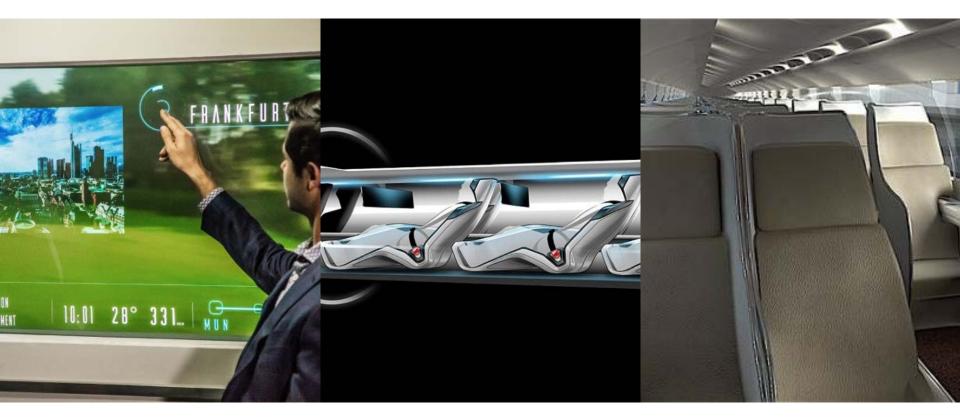
Passenger pod

hyperloop one

## History of Hyperloop



## **Riding Hyperloop**







## How does it work?





hyperl∞p | one

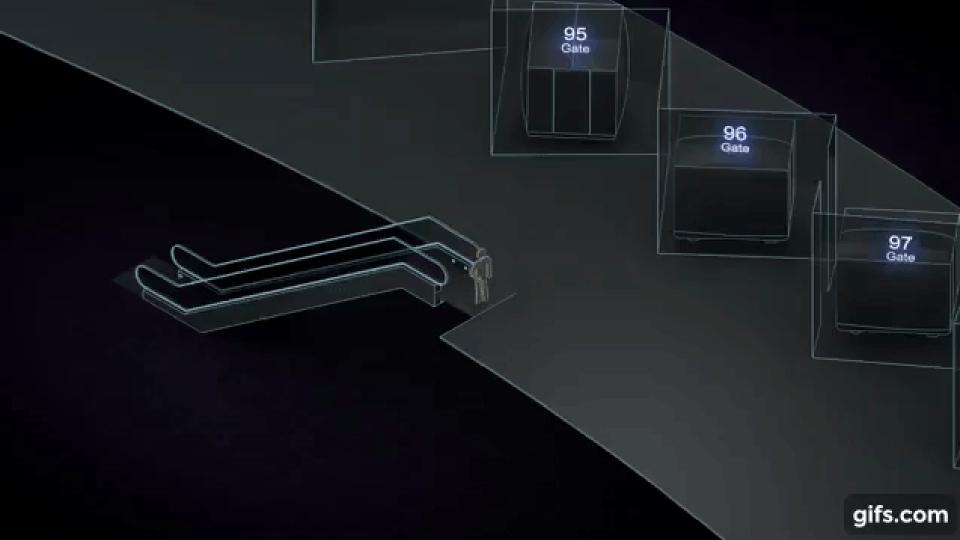
## **DUBAI MARINA**

Millin

## **BURJ KHALIFA**

gifs.com

## **DUBAI WORLD CENTER**

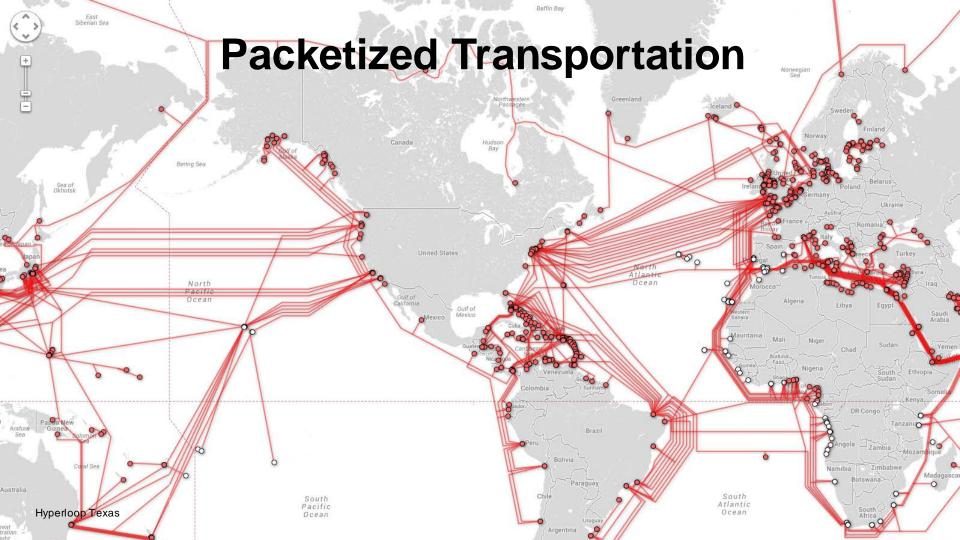




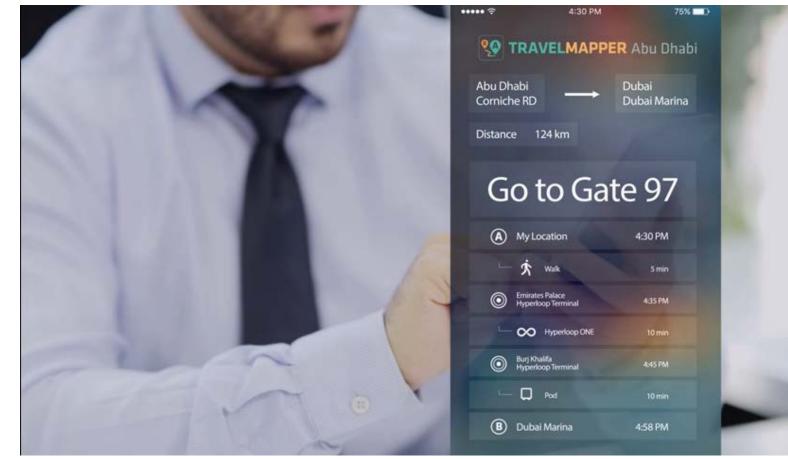
### **Electric Vehicle Range Extender**







## **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

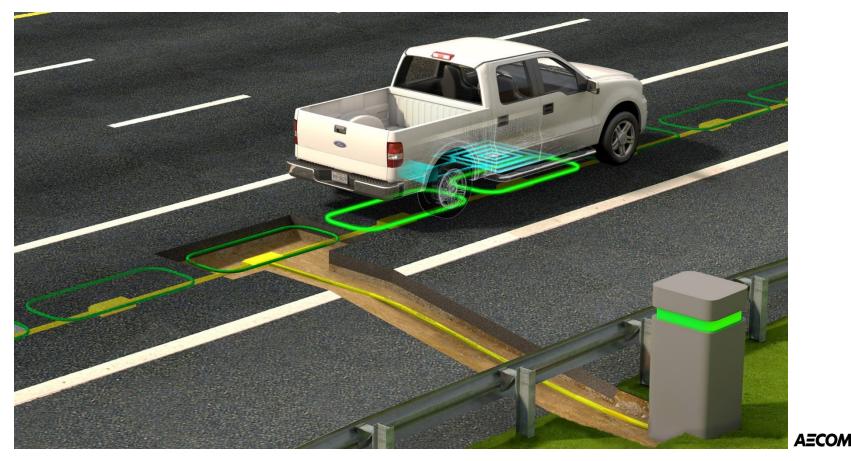
## **FORTUNE 500 HQs**



## 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/

hyper

TANKER .