

# Transportation Challenges for the UAE

## Population Increase

2015: 9.5 million people  
2045: 12.8 million people

In 30 years our population is expected to grow by about

### 3.3 million

..that is more than the current population of Dubai

Dubai has 2.5m residents as of 2016

Dubai

Dubai Statistics Center

## Current Transportation

Taxis on the road

**9,500** taxis in Dubai

**4,000** taxis in Abu Dhabi

Planned expansion by 30% by 2020

Annual Sales of new cars

**360,000** vehicles/year

**400,000** vehicles/year by 2020

Dubai RTA  
Abu Dhabi TransAD

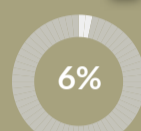
## Bumper-to-Bumper Traffic

On average, a commuter spends **59** minutes a day in traffic

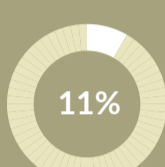
Sharjah 1008 hrs/yr

Dubai 260 hrs/yr

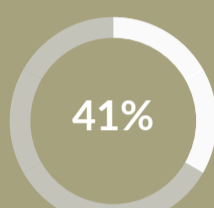
USA 40 hrs/yr



Stopped Driving



Avoid Routes



Commute 2+hrs/day

<http://www.emirates247.com/logjam-41-uae-residents-claim-extra-1-2-hours-on-roads-daily-2014-09-21-1.563629>

3.7 million km of centerline roads in the UAE

The annual financial cost of congestion is

**Dh 2.9 billion/yr**

## 2020 Forecast

**50%** more cars by 2020

2.42 million in 2016

3.5 million by 2020

Frost & Sullivan

**30%** increase in congestion

2.6 hours daily commute

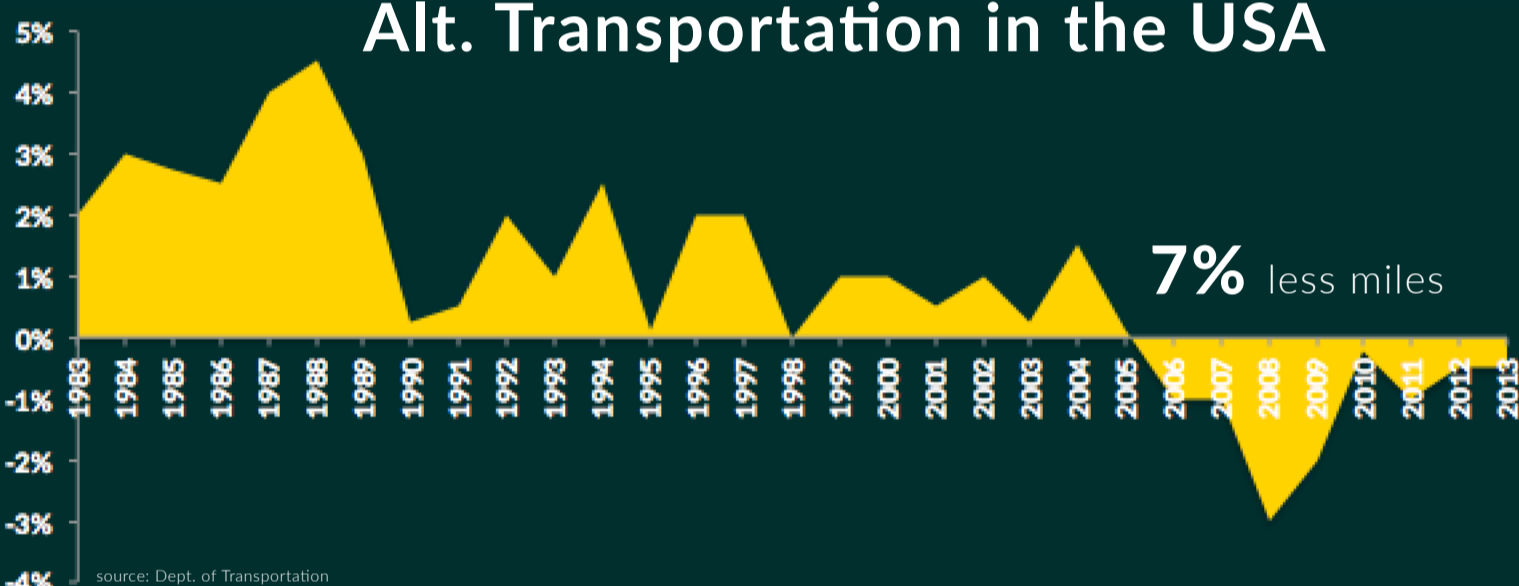
Demand for alternative transportation will increase 10x by 2020

Gulfnews, dashroad, PwC

## Alt. Transportation

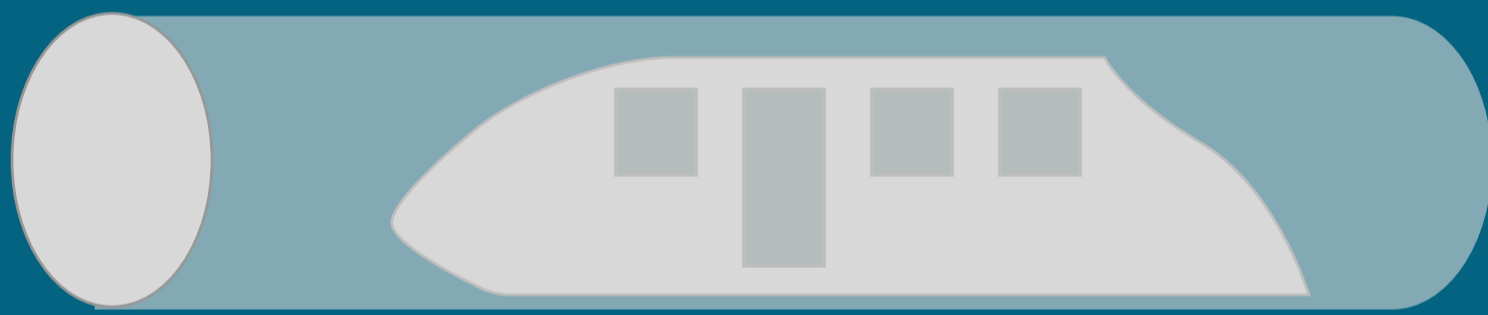
New transportation options have reduced vehicle miles by 7% in last 10 years in the United States

## Alt. Transportation in the USA



## New Technologies in Transportation

### Hyperloop



**Top Speed:**

760 mph

**Dubai to Abu Dhabi:**

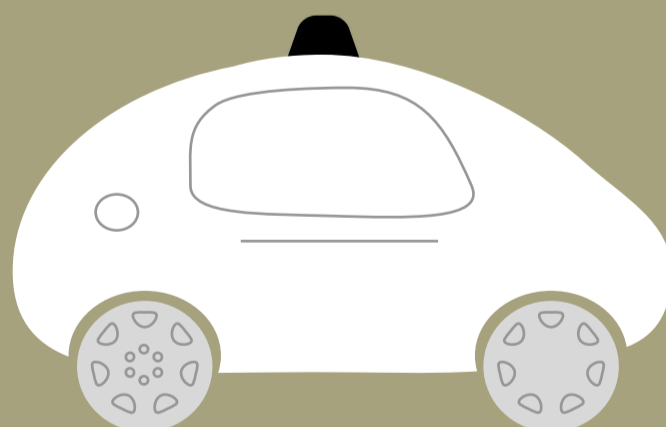
15 minutes

**Launch Date:**

2025+

Source: Hyperloop, SpaceX

### Autonomous Cars



**Top Speed:**

40 mph\*

**Launch Date:**

2020\*\*

**Seating:**

4 passengers

\* current Googlecar top speed

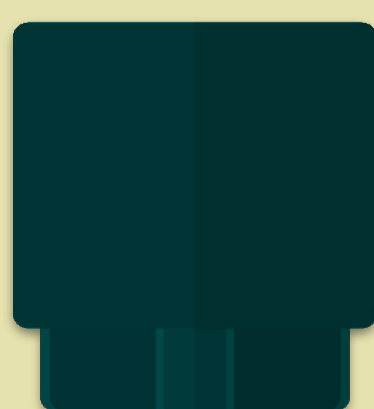
\*\* Goal for Expo 2020

### Connected Cars

dashroad

**Features:**

Makes all cars smart  
Installs in 60 seconds  
Engine Diagnostics  
Improves driving behavior  
Reduces congestion



**Fits:**

All cars after 1996

**Launch:**

June 2016

dashroad

dashroad.com