



## **AECOM: Design. Build. Finance. Operate.**

\$18B revenue (TTM)	7 continents	87K employees	150+ countries
Diversified Markets		Full DE Capabi	_

- Transportation
- Facilities
- Federal / Support Services
- Environment / Water
- Power / Industrial
- Oil & Gas

- Design & Consulting Services
- Construction Services
- Management Services
- AECOM Capital







## REGULATION/ POLICY



## CONNECTED / AUTONOMOUS

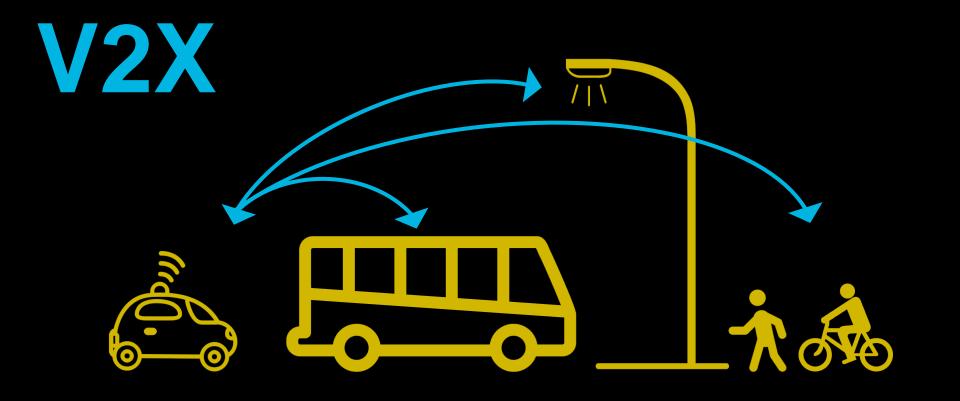


**SHARED** 



**ELECTRIC** 





Vehicles communicate with other vehicles, infrastructure, and other users



## **AUTONOMOUS**

4

years until there will be autonomous vehicles on the road (Ford)



~40

years for full fleet conversion (Victoria Transport Policy Institute)





90%

accident reduction (AAA)

**50** 

minutes saved per day (McKinsey)



saved per year in U.S. by 2050 (McKinsey)

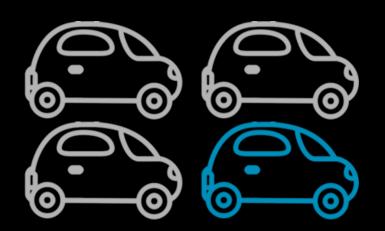
2,200

square miles of parking need reduced (McKinsey)



# 80%

fewer cars
(MIT/NY, ITF/Lisbon, VDV/Stuttgart)



Impacts to goods movement/deliveries Induced demand New market of riders

OR

**A**ECOM

## **SHARED**

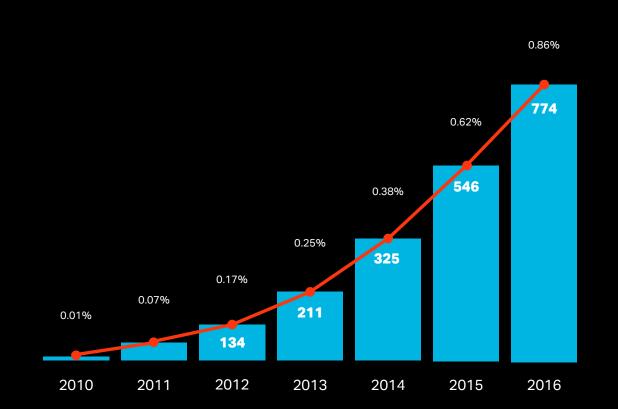




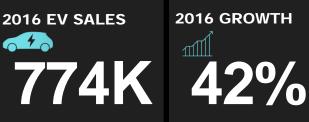


Car/Ride Share Bike Share Ride Share

## **ELECTRIC VEHICLE GROWTH**



## **GLOBAL EV STATISTICS**













50%

## **ELECTRIC BUS TECHNOLOGY GROWTH**



**98%** of world sales of electric buses are in China





- LA Metro pledge for Electric Fleet by 2030
  - Full cycle Zero-Emissions
- Antelope Valley Electric Bus Fleet by 2018
- \$15B Volkswagen Settlement



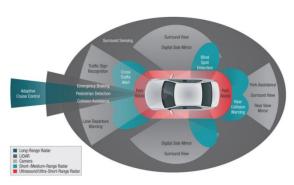


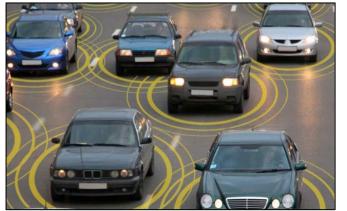
## **Readiness & Policy Plans**

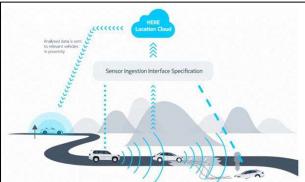
#### Projects in:

- Michigan (connected vehicle data applications)
- New Zealand (CAV state of readiness)
- Tennessee (Incorporate CAVs into long-range transport plan)
- Dubai (AV shuttle safety plan)
- Miami (AV vision plan)











#### Infrastructure

#### **Automotive Test Facilities**

- General Motors
  - Facilities Maintenance
  - Program Management
  - Construction Management

#### **EV Manufacturers**

- Confidential Clients
  - Design/Build Services





## **Pilot Projects**

## **Project**

 Evaluate vehicle manufacturers and select a site location to conduct testing of an autonomous bus for transit use.

## **Objective**

 Test autonomous vehicle capabilities in cold weather conditions.

#### **Goals**

 Identify challenges and solutions to using autonomous vehicles in cold weather conditions.





#### **Shared Vehicles**

## **Project**

 Los Angeles Metro mobility hubs needs assessment and operating plan.

## **Objective**

 Expand access to job training and educational opportunities for lowincome individuals.

#### Goals

 Recommend locations for mobility hubs that combine bike share, car share, transit, and on-demand shuttle services.



## **Electrified Roadways**

#### **Projects**

- Inductive lanes infrastructure in Colorado.
- Civil design for EV freight trucks in a heavily congested corridor in the LA region.

#### **Objectives**

- Solve range anxiety for EVs.
- Accelerate EV adoption rates.

#### Goals

- Reduce fossil fuel use.
- Reduce operating cost.











