

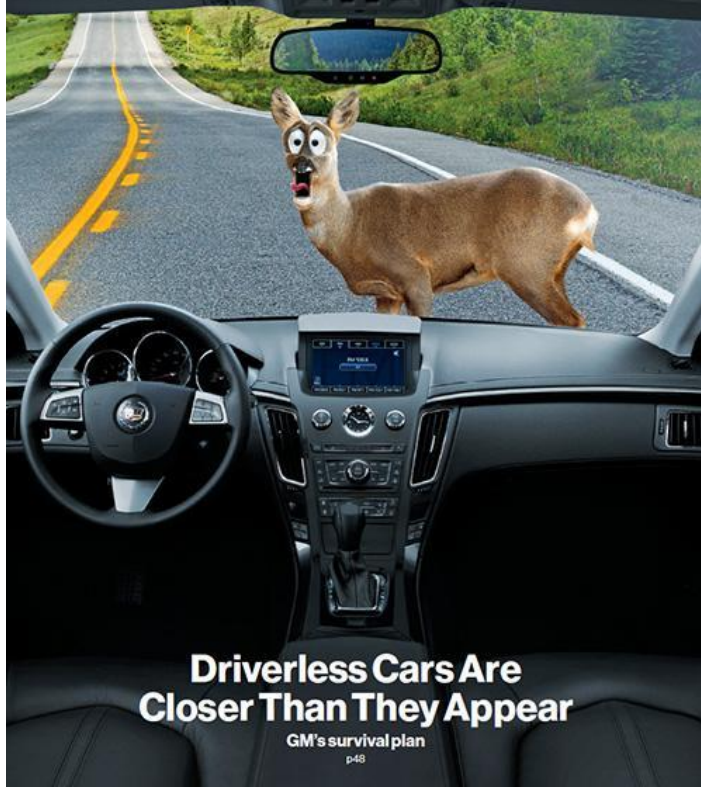


Corporate Presentation

May 2017

Bloomberg Businessweek

November 2 - November 8, 2015 | bloomberg.com



Driverless Cars Are Closer Than They Appear

GM's survival plan
p48

Discussion Topics

- Driverless Vehicles 101
- Our Driverless Vision
- EasyMile and the EZ10
- What Now?



Driverless Vehicles 101

Driverless Vehicles Definition

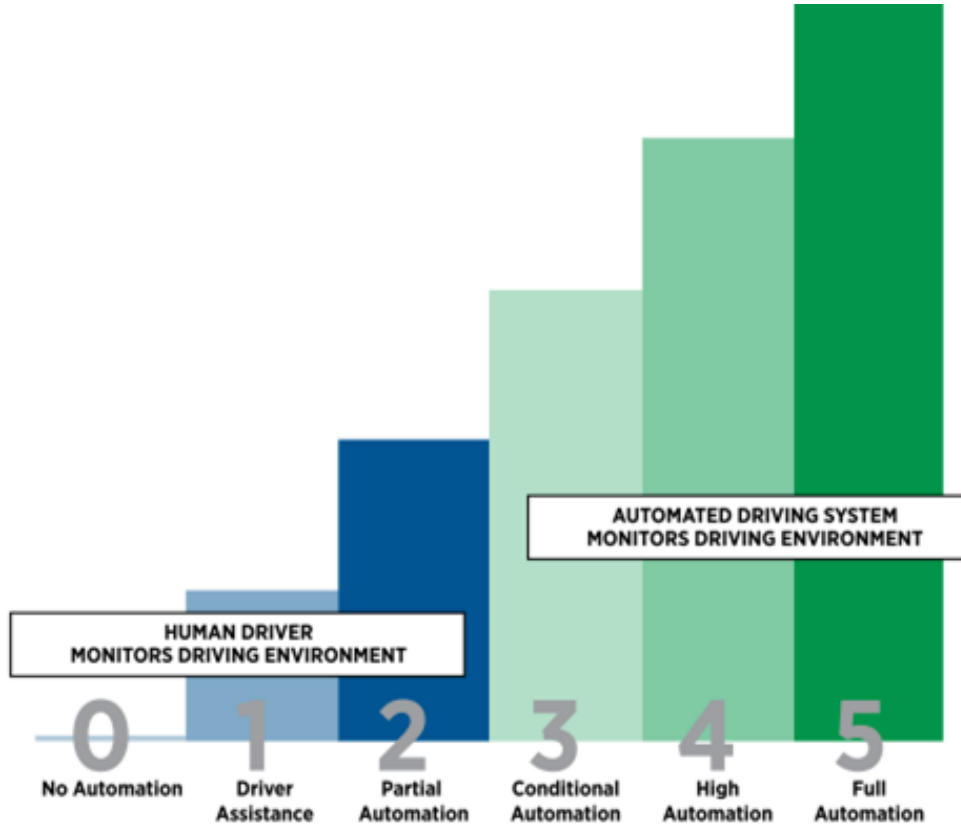
The U.S. Department of Transportation defines an **automated vehicle system** as:

“a combination of hardware and software (both remote and on-board) that performs a driving function, with or without a human actively monitoring the driving environment.”



*Source: United States Department of Transportation
Federal Automated Vehicles Policy, September 2016*

SAE Levels of Automation



Is this a Level 5 Fully Automated Vehicle?



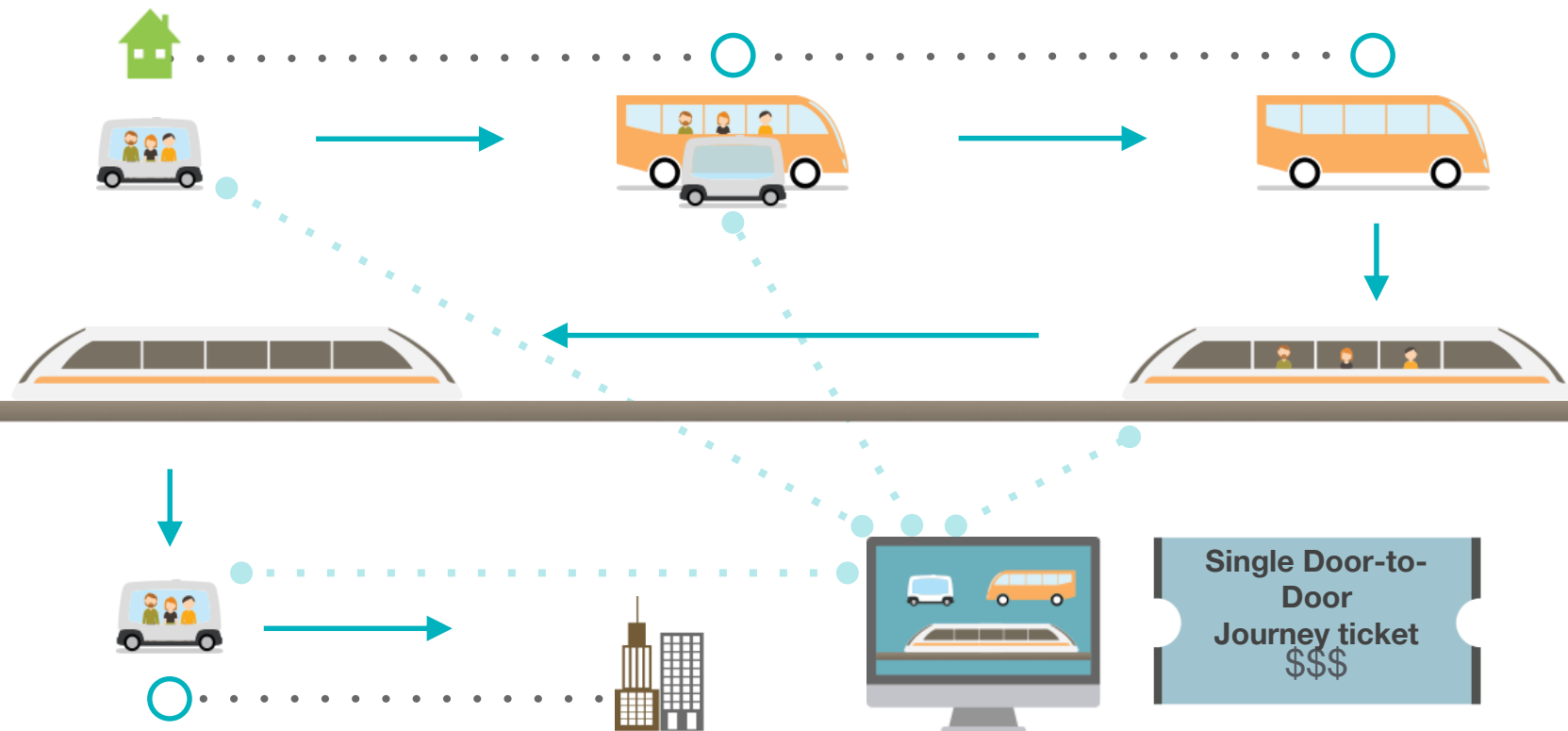
...and i should care,
why?



Better Mobility Options



Better Mobility Options (cont.)



Reduced Car Ownership



What if this...

...increasingly
became this?

Decreased Space Dedicated to Parking



Reduced Greenhouse Gas Emissions



So.... When are They Coming?



Why Aren't Driverless Vehicles Here Today?



Technology
Readiness



Insurance



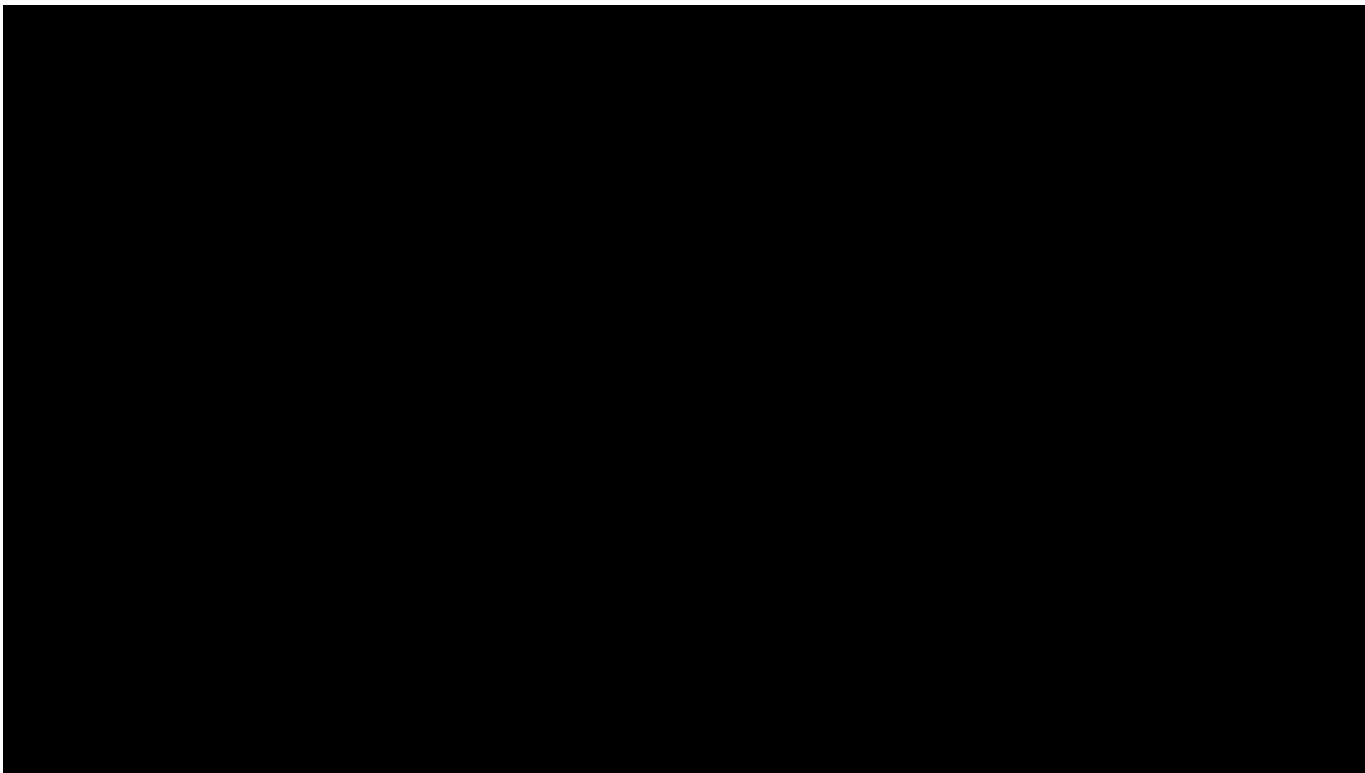
Regulation



Infrastructure



Human
Acceptance



Our Driverless Vision

Scenario #1



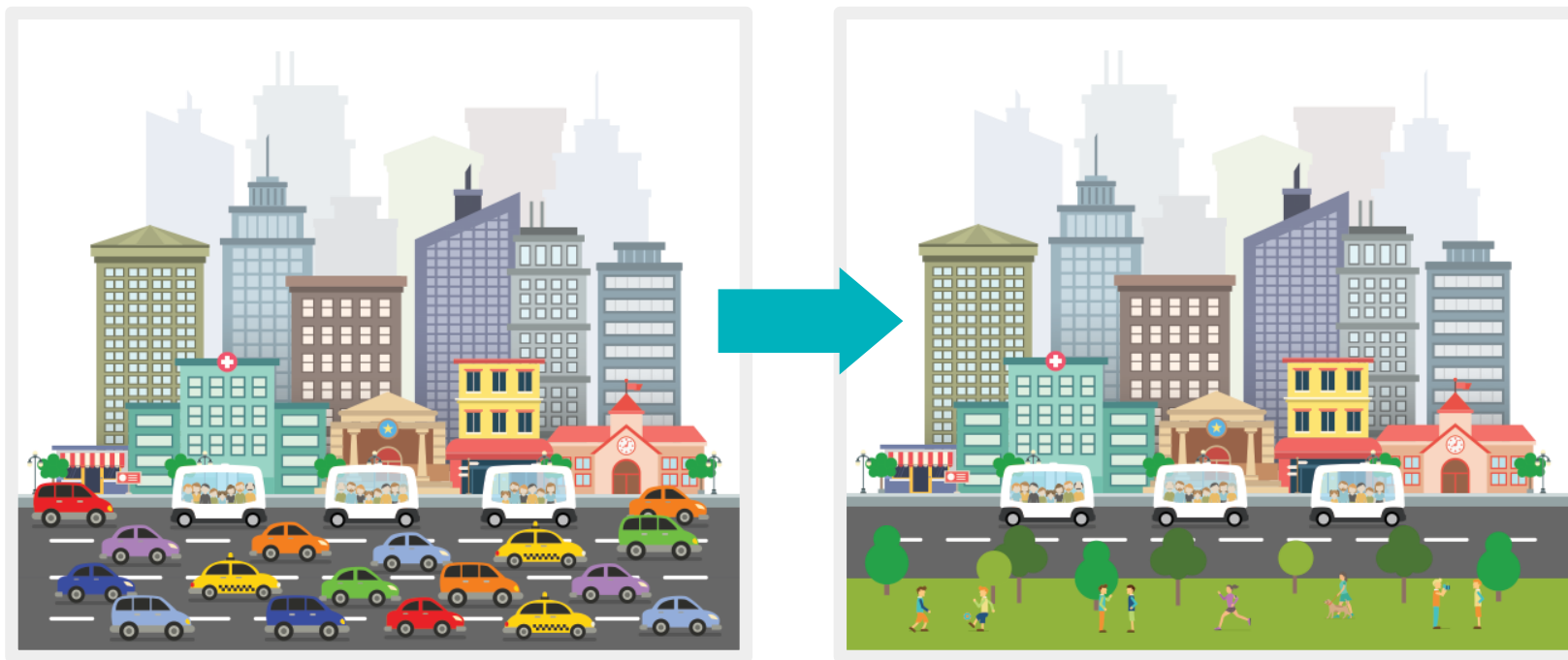
Scenario #2



Scenarios Comparison

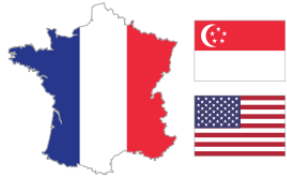
	Scenario #1 (Nightmare)	Scenario #2 (Utopia)
Safety		
VMT		
GHG Emissions		
Urban Sprawl		
Parking Requirements	No Change	
Low Income Mobility		

The Vision



EasyMile and the EZ10

EasyMile Overview



Started in 2014 with offices in Toulouse, Singapore and Denver

Core Business:

- Develop open road driverless technologies
- Integrate these technologies into different vehicles to address a variety of use cases
- Develop methodologies to efficiently and safely deploy fleets of automated vehicles



Currently 70 staff:
36 R&D software engineers (target 50 by end of 2017), including 11 PhD's



Establish partnerships to combine expertise to deliver a quality product and service

The EZ10



Driverless and electric shuttle

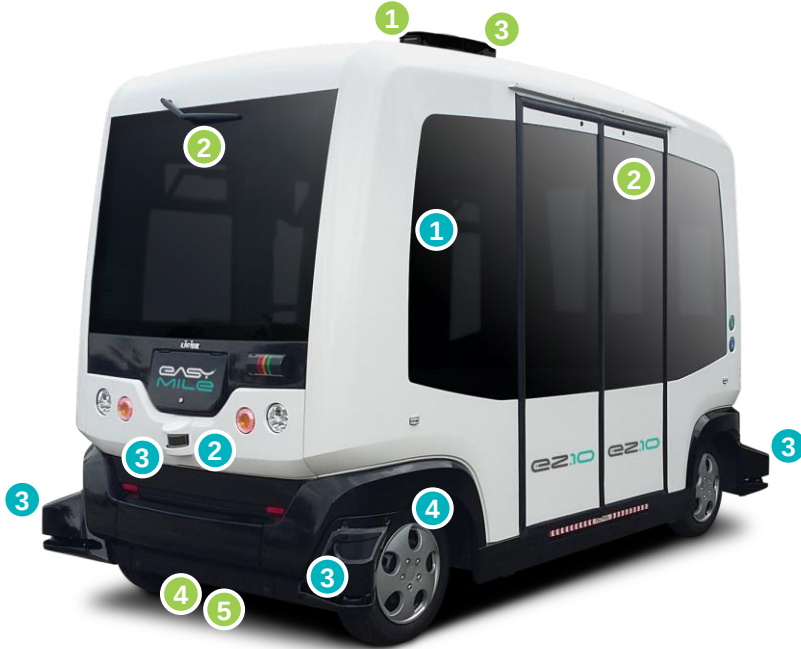
Can carry up to 12 people

(6 seating and 6 standing)

Built-in access ramp for passengers
with reduced mobility

No need for additional infrastructure

The EZ10 Safety Features



Localization Using Data

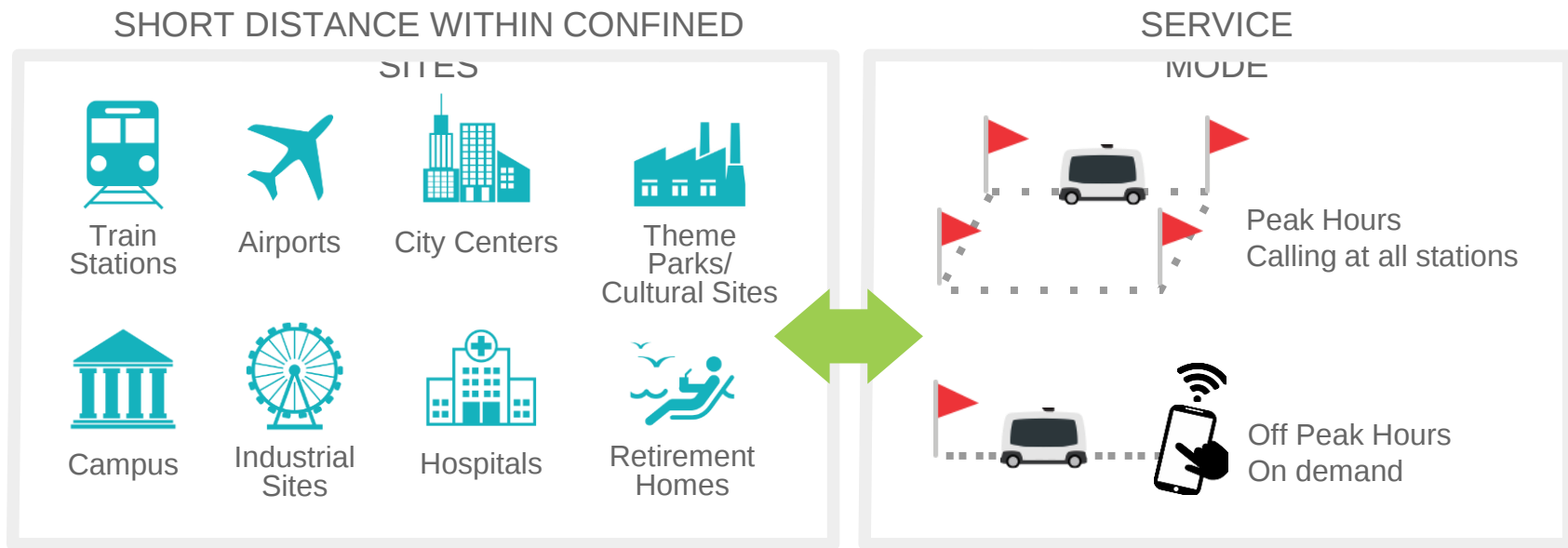
Fusion

- 1. Lasers
- 2. Cameras
- 3. GPS
- 4. Odometry
- 5. IMU

Decision-making Safety Chain

- 1. Emergency Stop Buttons X3
- 2. Certified Industrial Grade Safety Control Units
- 3. Obstacle Detection Lasers
- 4. Braking Systems & Failsafe Parking Brake

Current Applications for People Movers



Increase Urban Mobility

Reduce Traffic Congestion & Pollution

Create "Last Mile" Connectivity

Save Costs Through Automation

EZ10 in Action



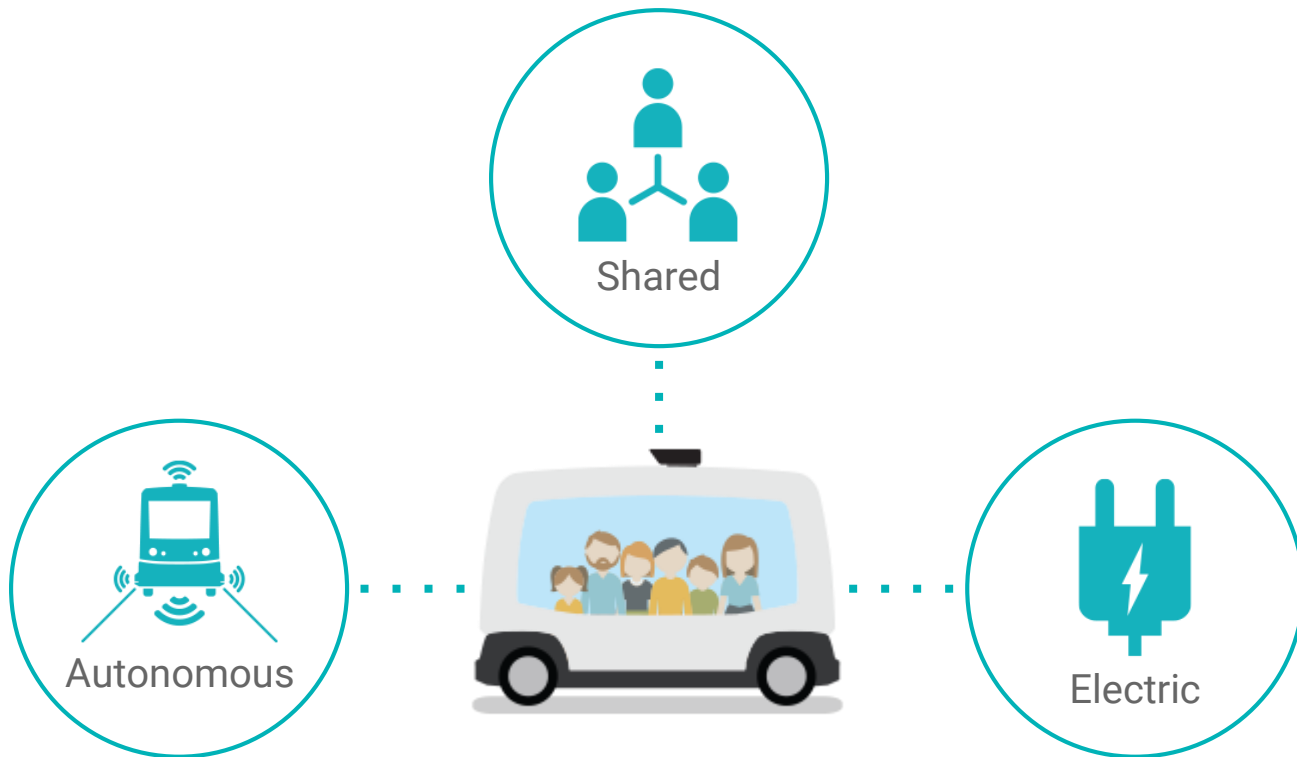
EasyMile Projects



So... What Now?



Our Mobility Future



Establish Supportive Policies

Update roadway policies and infrastructure to manage the VMT impact

Adjust land use policies to reduce urban sprawl

Adjust the tax/fee structure to dis-incentivize car ownership and/or parking

Alter parking policies to reduce the need for private parking

Incentivize electric vehicle usage/ownership

Change transit pricing

Start a Pilot!



Build Awareness
of Technology



Educate
Stakeholders



Establish
Partnerships



Navigate
Regulations



Integrate w/ Transit



Establish Insurance



Inform Planning Process

Address a Mobility Challenge



Train
Stations



Airports



City Centers



Industrial
Sites



Campus



Theme Parks/
Cultural Sites

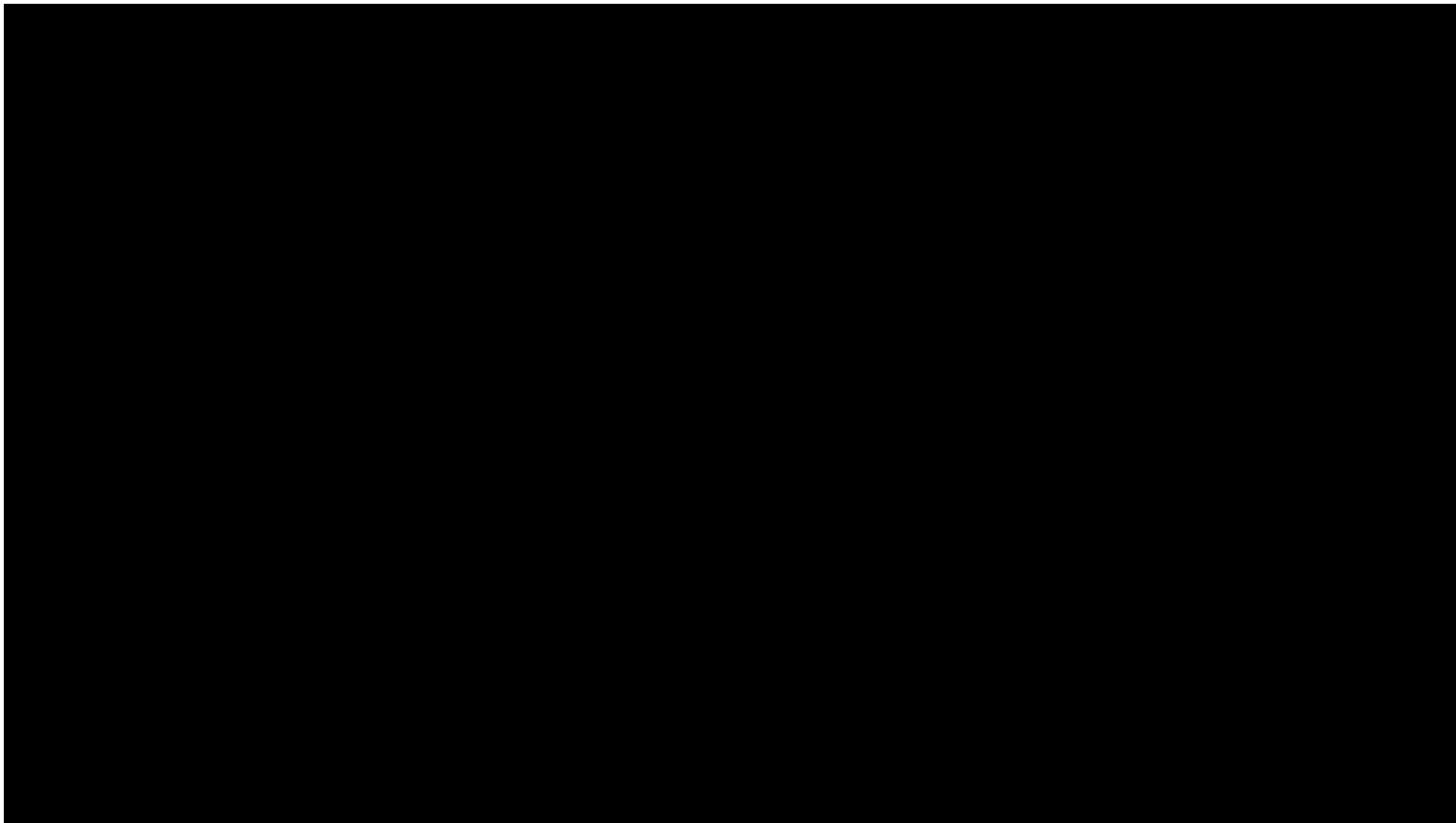


Hospitals



Retirement
Homes

City of Arlington Example



Questions?

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Initiatives

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