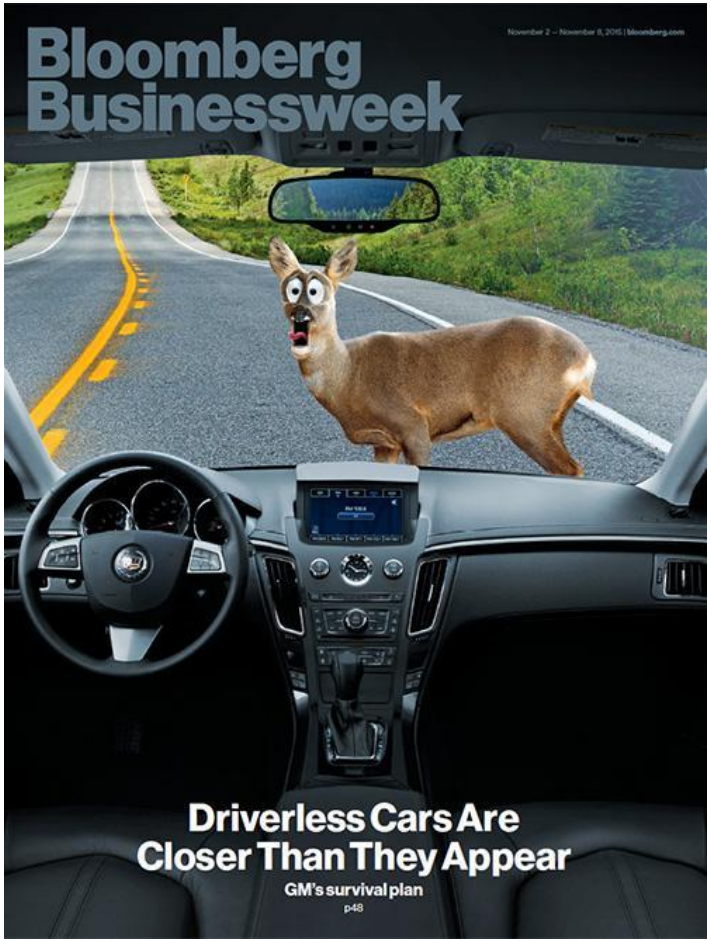
Corporate Presentation

May 2017


November 2 – November 8, 2015 | bloomberg.com
Bloomberg Businessweek
Driverless Cars Are Closer Than They Appear
GM's survival plan
p48

Discussion Topics

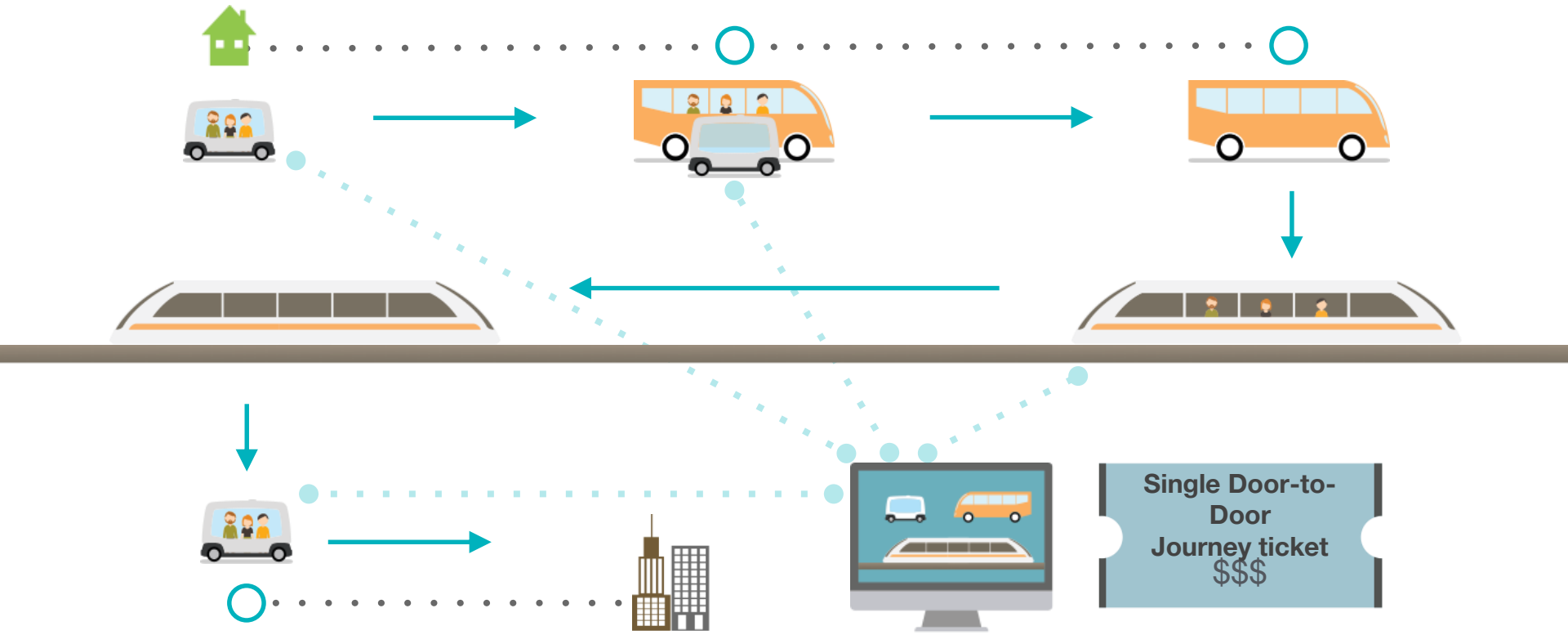
- Driverless Vehicles Aligned w/ Government Goals
- Our Driverless Future
- EasyMile and the EZ10
- Government Actions Today

Driverless Vehicles Aligned w/ Government Goals

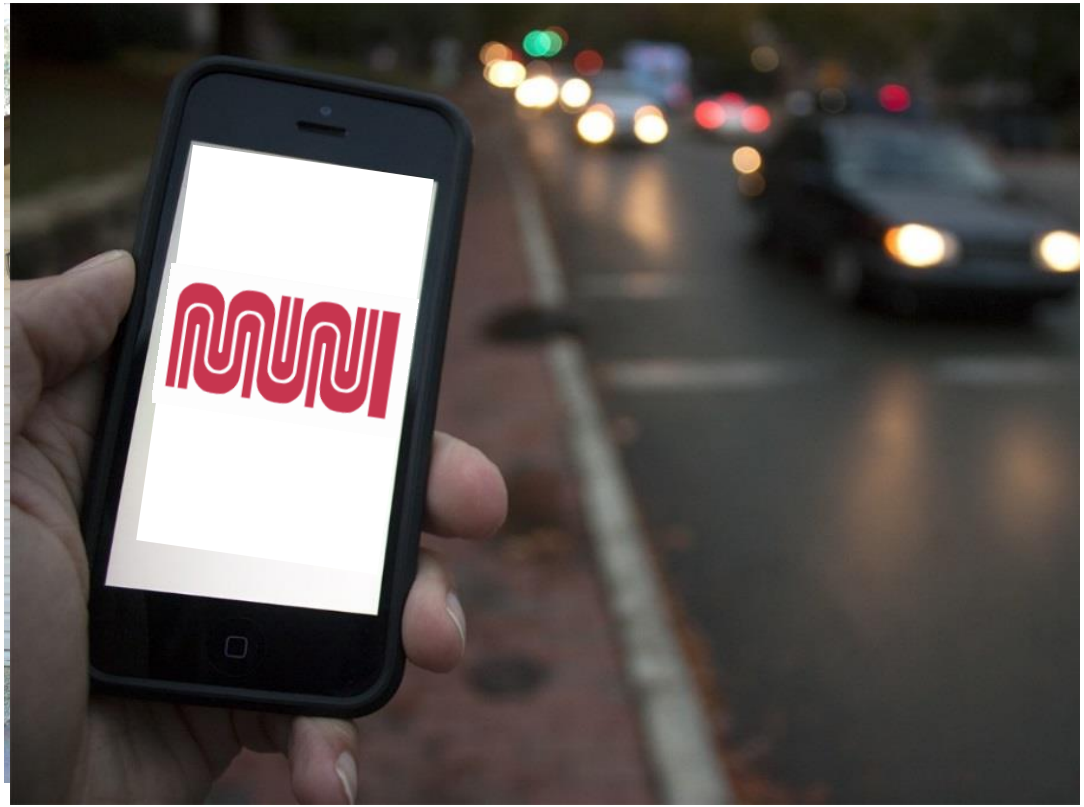
Improved Safety

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

Our Driverless Future

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

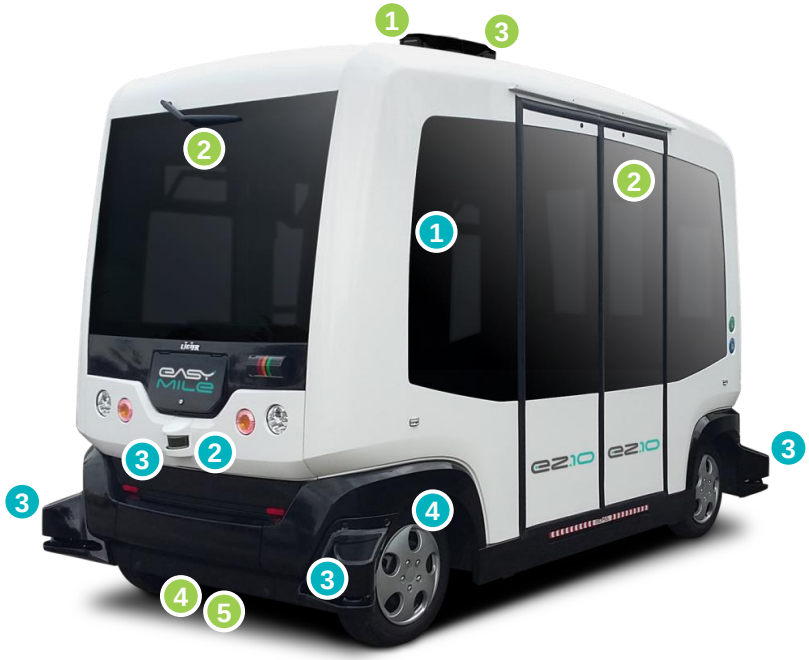
Can carry up to 12 people

(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

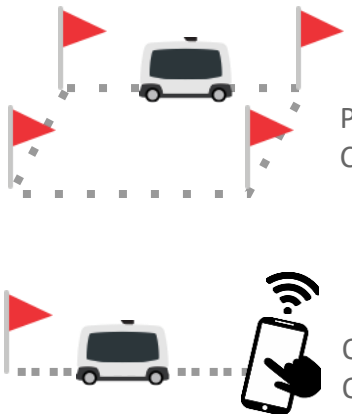
1. Emergency Stop Buttons X3
2. Certified Industrial Grade Safety Control Units
3. Obstacle Detection Lasers
4. Braking Systems & Failsafe Parking Brake

Current Applications for People Movers

SHORT DISTANCE WITHIN CONFINED SITES

- Train Stations
- Airports
- City Centers
- Theme Parks/ Cultural Sites
- Campus
- Industrial Sites
- Hospitals
- Retirement Homes

SERVICE MODE



Peak Hours
Calling at all stations

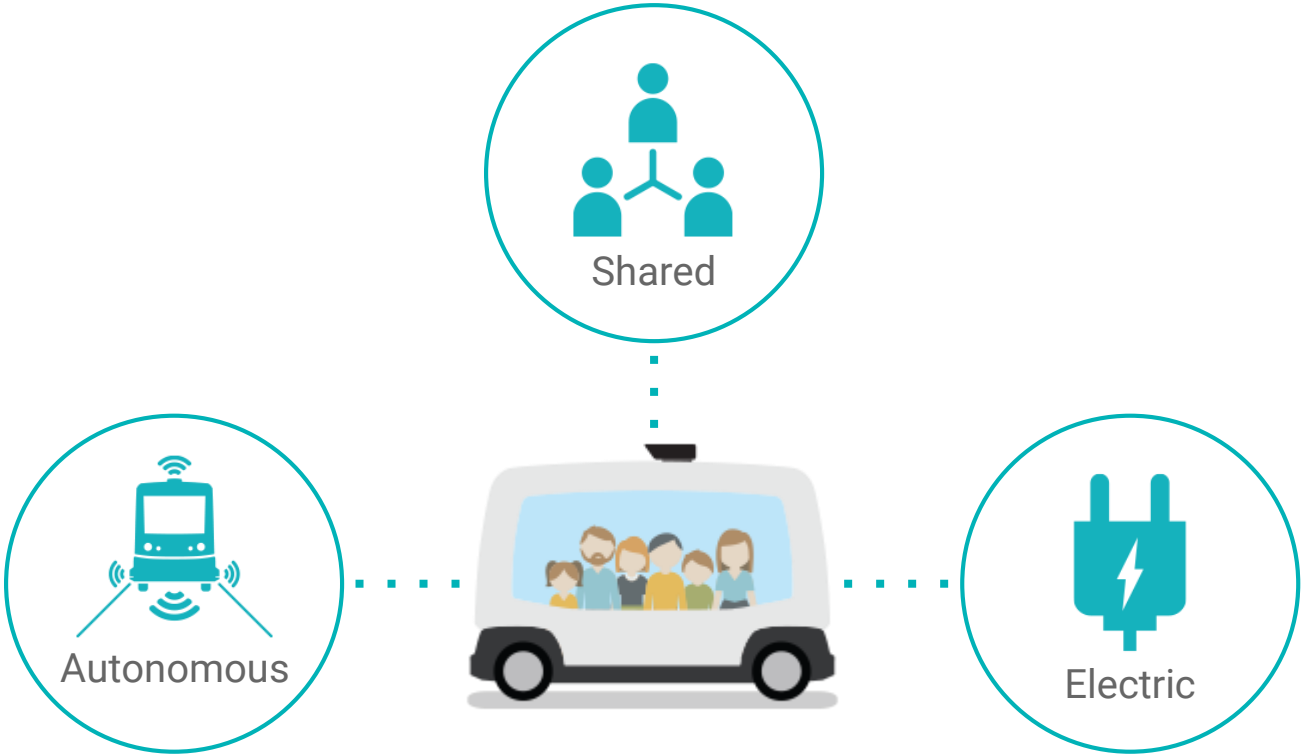
Off Peak Hours
On demand

- Increase Urban Mobility
- Reduce Traffic Congestion & Pollution
- Create “Last Mile” Connectivity
- Save Costs Through Automation

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

EZ10 in Action

Questions?

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