

January 30, 2018

Manu Namboodiri
Senior Director, Smart Cities



APTIV

IEDC SUMMIT 2018

• **APTIV** •

Aptiv Provides End-To-End Solutions That Allow Us To Commercialize New Mobility

SOFTWARE

SENSING &
COMPUTING

SIGNAL & POWER
DISTRIBUTION

CONNECTED
SERVICES

A P T I V

Aptiv Heritage : Delphi Snapshot

2016 Revenue: **\$16.7 Bil**

2016 EBIT: **\$2.2 Bil**

Countries: **46**

Major Manufacturing Facilities: **126**

Major Global Technical Centers: **15**

Engineers & Scientists: **20,000**

Employees: **173,000**

Market Capitalization: **\$26 Bil**





Mobility: Pushing the **boundaries** of



Demonstrated Automated Driving Leadership

A RICH HISTORY OF FIRSTS AND MILESTONES ON PATH TO AUTOMATED DRIVING

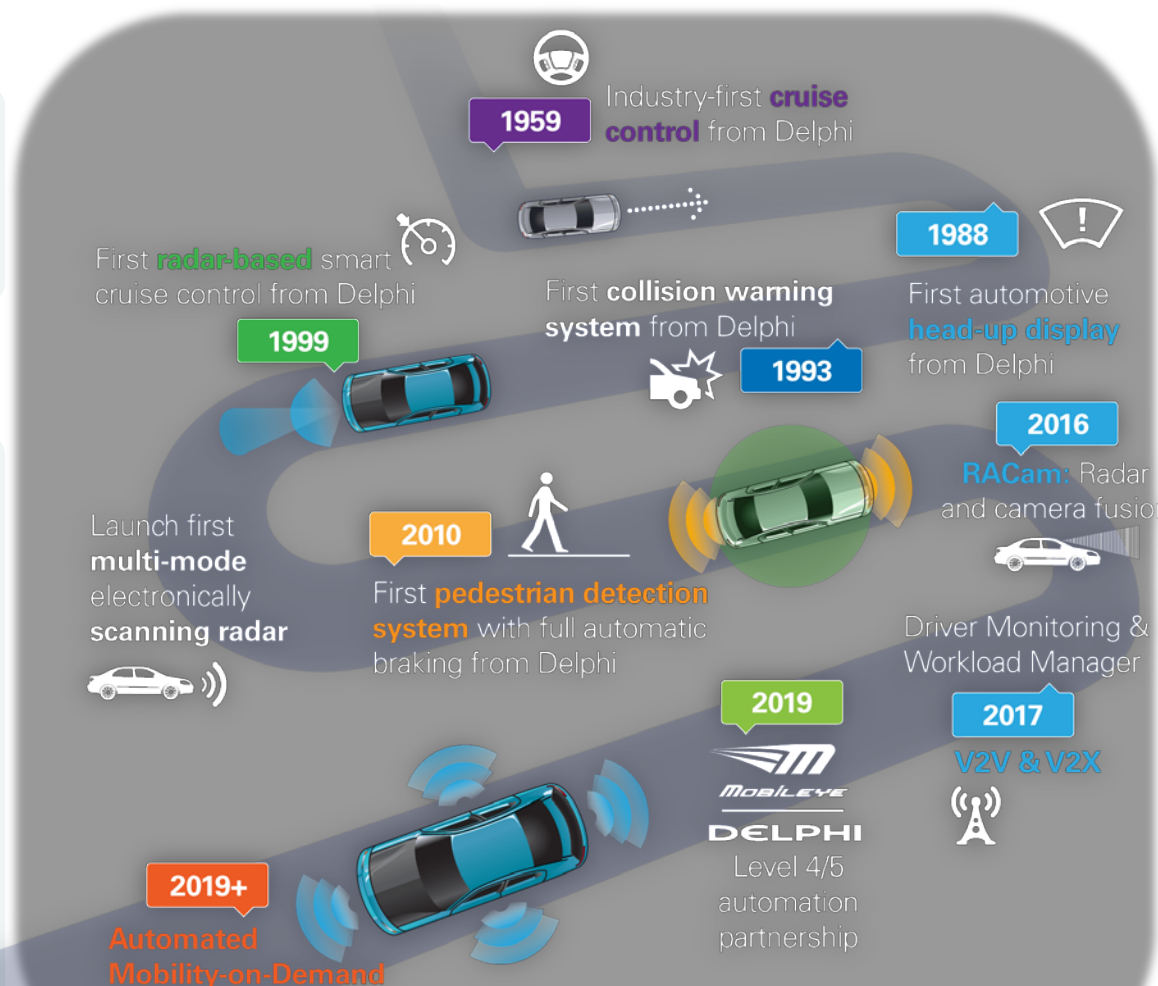
2007

DARPA Challenge with Ottomatika: Birthplace of autonomous driving; on the road even before Google

2015

1st automated drive at CES: One of two companies that passed autonomous vehicle permit testing in urban/ residential area in Nevada

- **1st Coast to Coast automated drive:** 3400 miles in 99% autonomous mode
- **Acquired Ottomatika:** Spin-off of Carnegie Mellon University



2016

V2everything™ automated drive at CES: V2V, V2P, V2I unique HMI personal device connectivity

Automated Mobility on Demand Pilot: Low speed, point-to-point, autonomous, mobility-on-demand service in Singapore

2017

Most complex highway + urban drive at CES: V2P, V2I and unique HMI with personal device connectivity

Acquired NuTonomy: MIT heritage, autonomous technology leader

Partnering With Lyft For First-Of-It's-Kind AMOD Demonstration At CES

PROVIDING POINT TO POINT RIDES TO **MORE THAN 20 DESTINATIONS** DURING CES



RIDES DELIVERED TO THE **GENERAL PUBLIC** OVER 5 DAYS

400+

VAST MAJORITY OF RIDES COMPLETED IN **FULLY AUTONOMOUS MODE**

99%

Why Smart Cities & Communities

- traffic
 - safety
 - environment
 - parking
 - data sharing
 - equitable
 - quality of life
 - coverage
 - efficiency
-
- safe
 - accessible
 - available
 - reliable
 - affordable
 - first/last-mile
 - universal ride payment

**mobility
requirements**

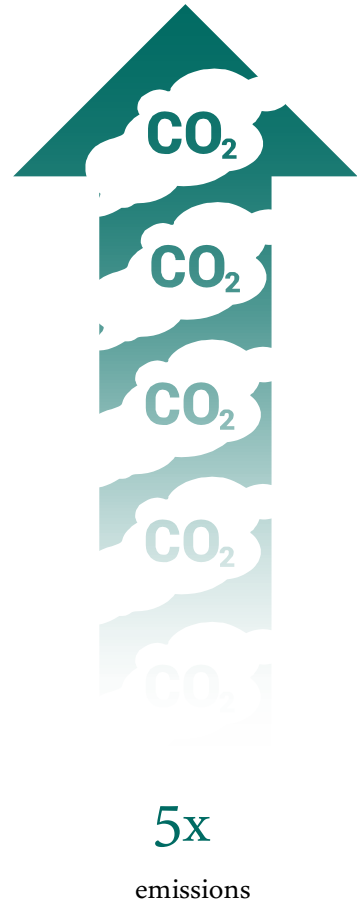
constraints

- resources
- growth
- congestion
- regulations
- infrastructure
- expertise

Epicenter
for Mobility

Urban mobility challenges

by 2050*



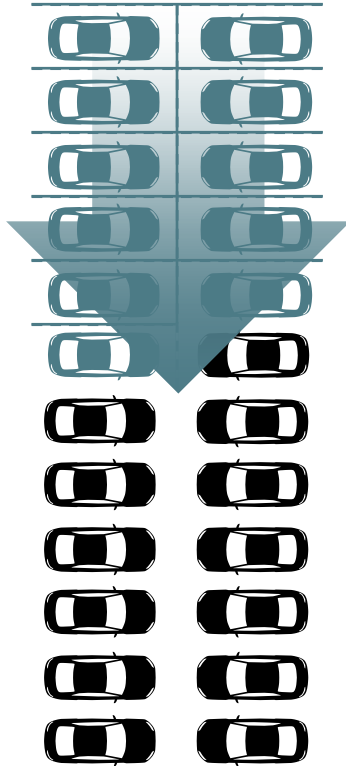
Benefits

of **mobility** automation
to cities*



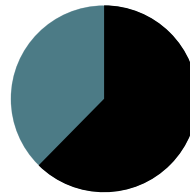
-28%

vehicles



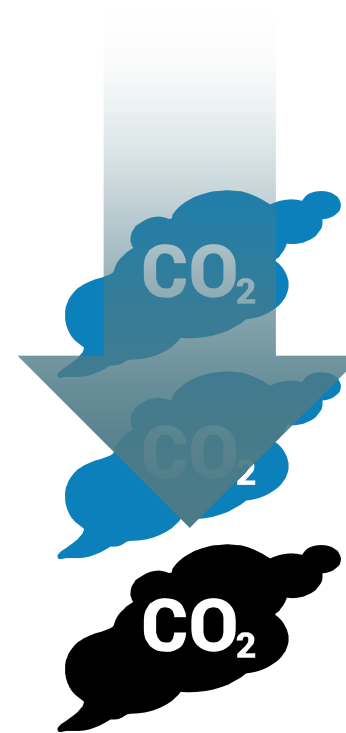
-44%

parking spaces



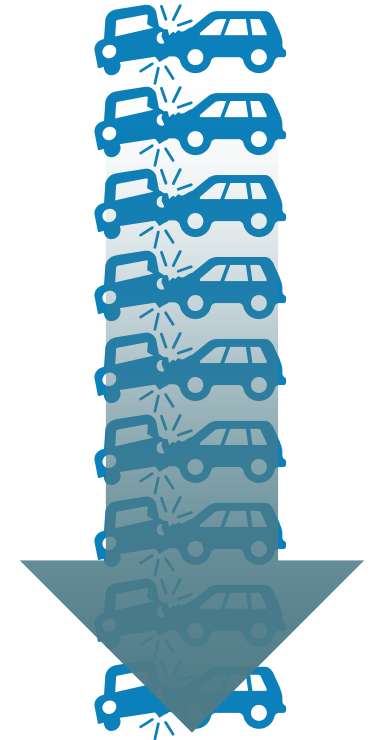
-30%

travel time



-66%

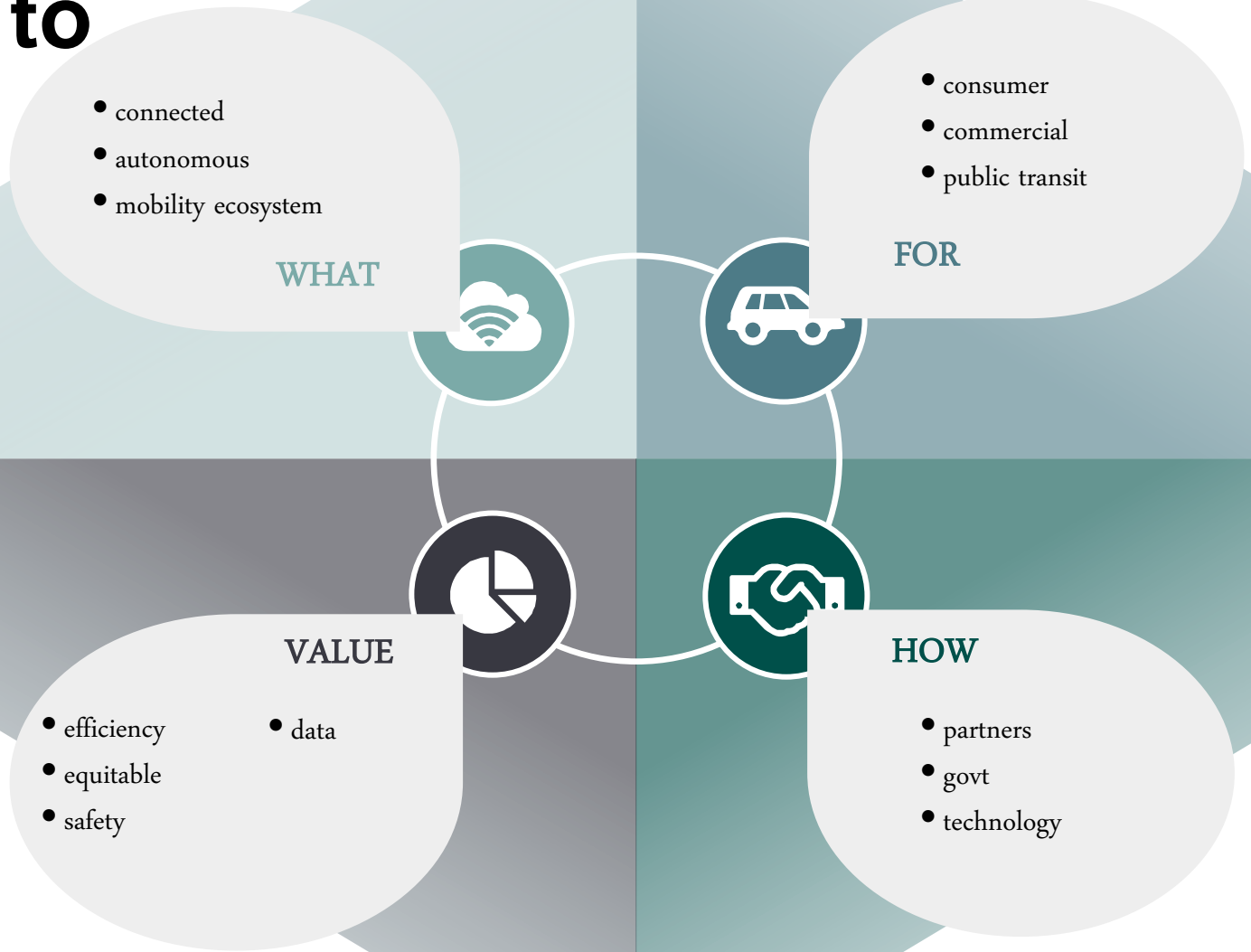
emissions



-87%

accidents

Optimal approach to Smart Mobility



Aptiv Making The Future Of Mobility Real

SMART CITY PILOTS GLOBALLY, TARGETING OVER 200 CARS ON THE ROAD BY THE END OF 2018



SINGAPORE

Trial of an urban, point-to-point, low-speed, autonomous, mobility-on-demand (AMoD) service in Singapore's one-north business park



BOSTON

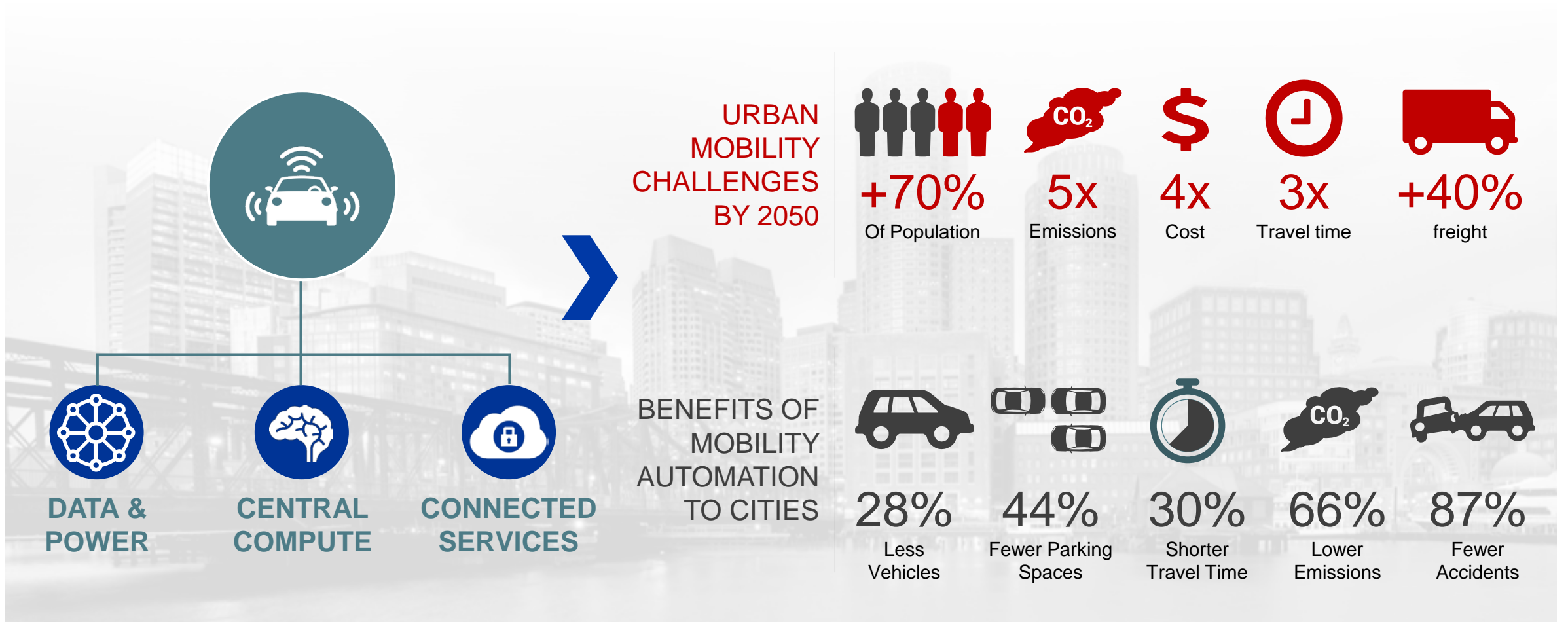
Commercially viable AMoD solution with fleet management, connectivity and data analytics enabling efficient city operations



LAS VEGAS

Leveraging CES public demonstration efforts by continuing to test and operate the fleet.

Well Positioned Enable Smart Mobility Benefits



Uniquely positioned to address mobility's toughest challenges

• **A P T I V** •