



VM global
leadership
SUMMIT
2017



AIeye

Artificial Intelligence
Supercharging Knowledge and Decision Making



Artificial Intelligence

Supercharging Knowledge and Decision Making

The Future of Mobility

Mark Platshon
Managing Director
mark@icebreakerventures.com



Icebreaker Ventures

Follow the Money



\$15.3 Billion



\$8 Billion



\$1 Billion



\$1 Billion



\$581 Million



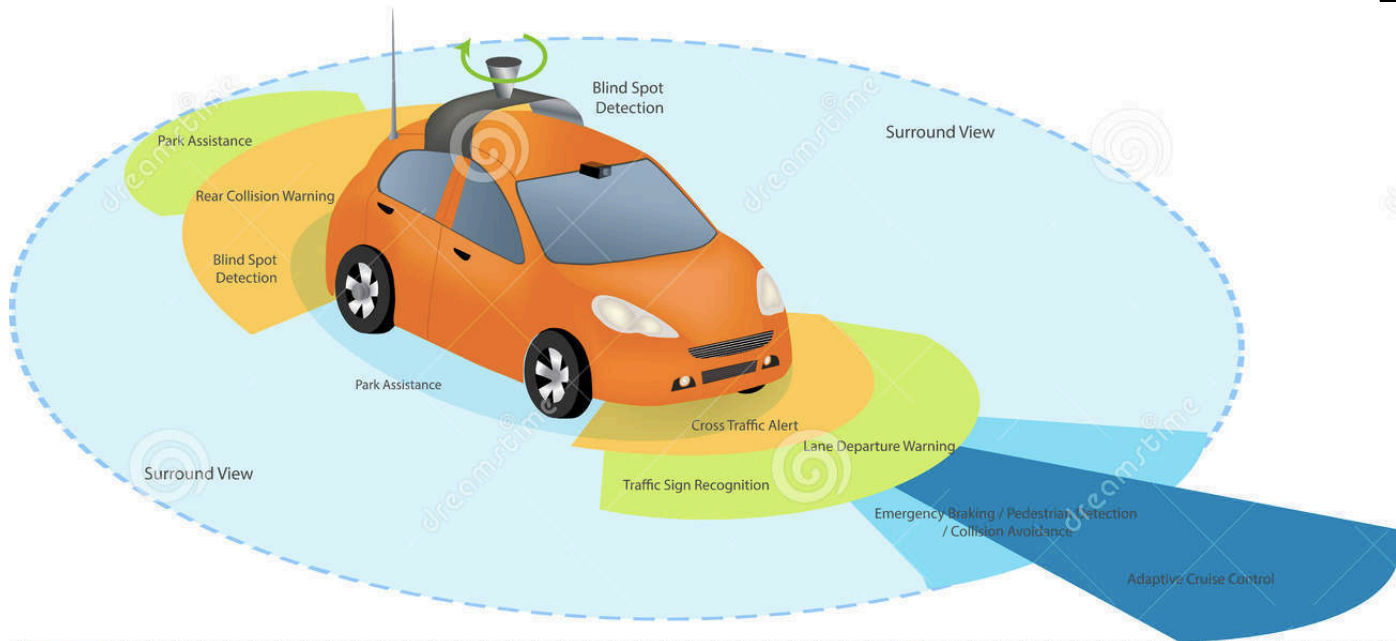
\$500 Million



\$680 Million



\$300 Million



W

T

F

?

WHAT'S



THE



FUTURE?

1 : 5000 miles

1 : 5000

Miles per Waymo Intervention



1 : 100,000,000 miles

1 : 100,000,000

Miles per Fatal Accident on US Roads



The Next Disruption: Mobility

Autonomous



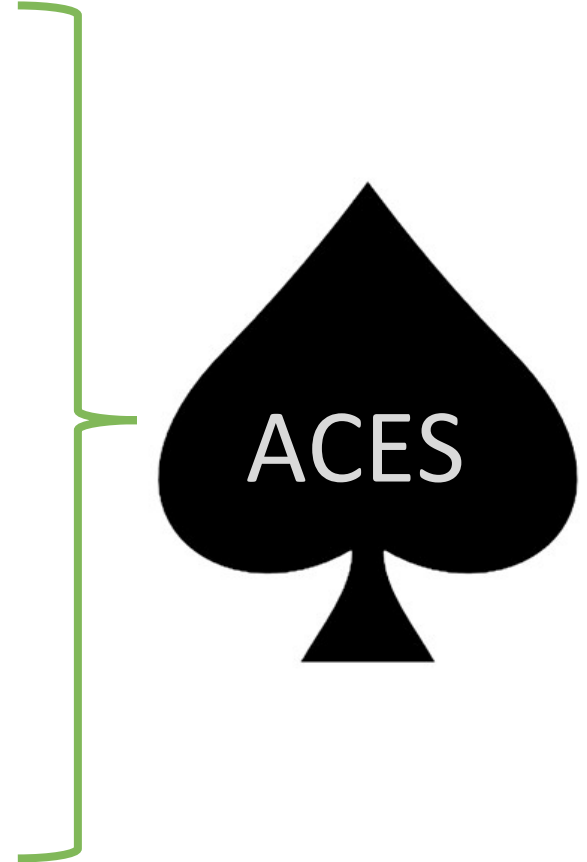
Connected



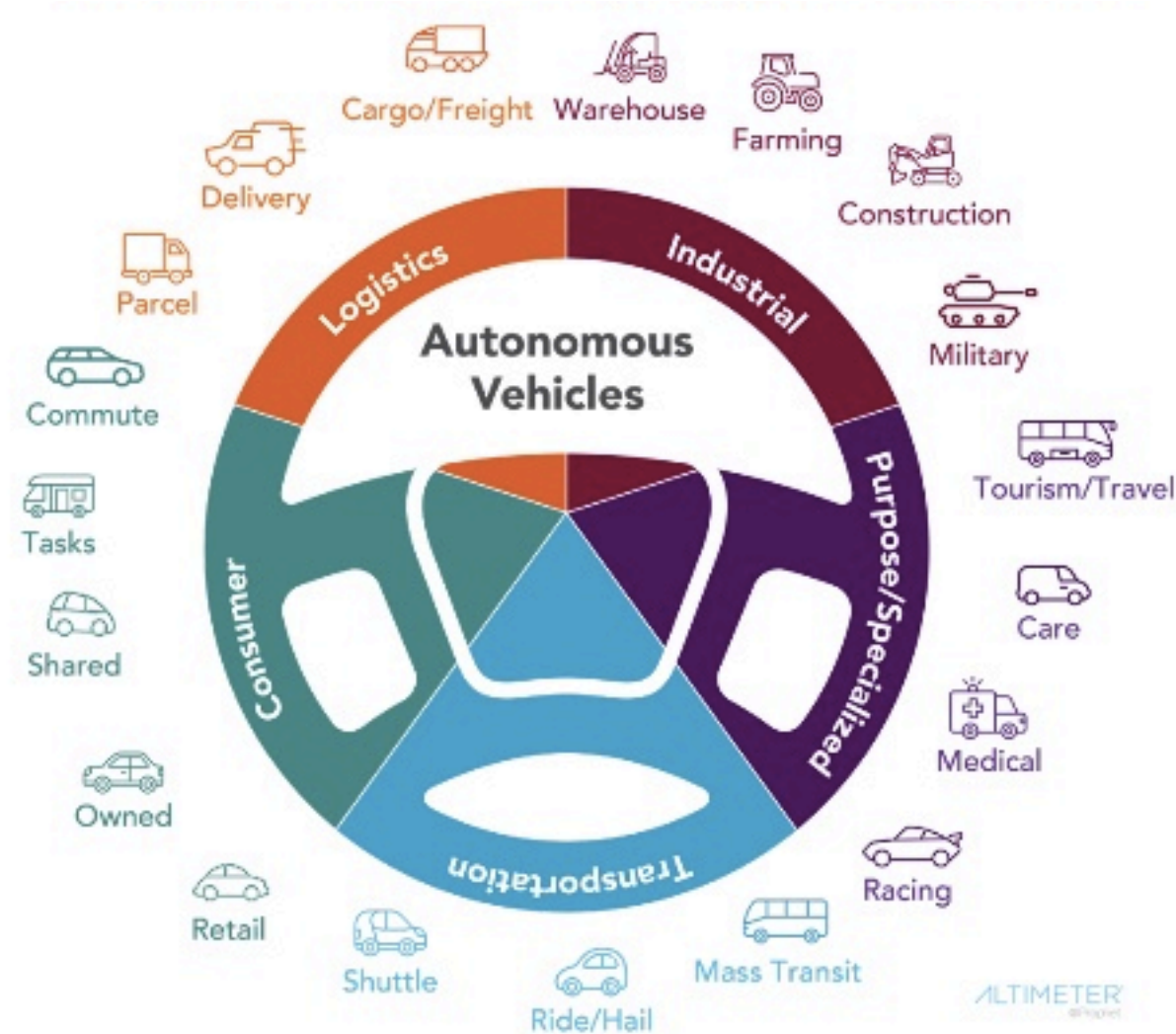
Electric



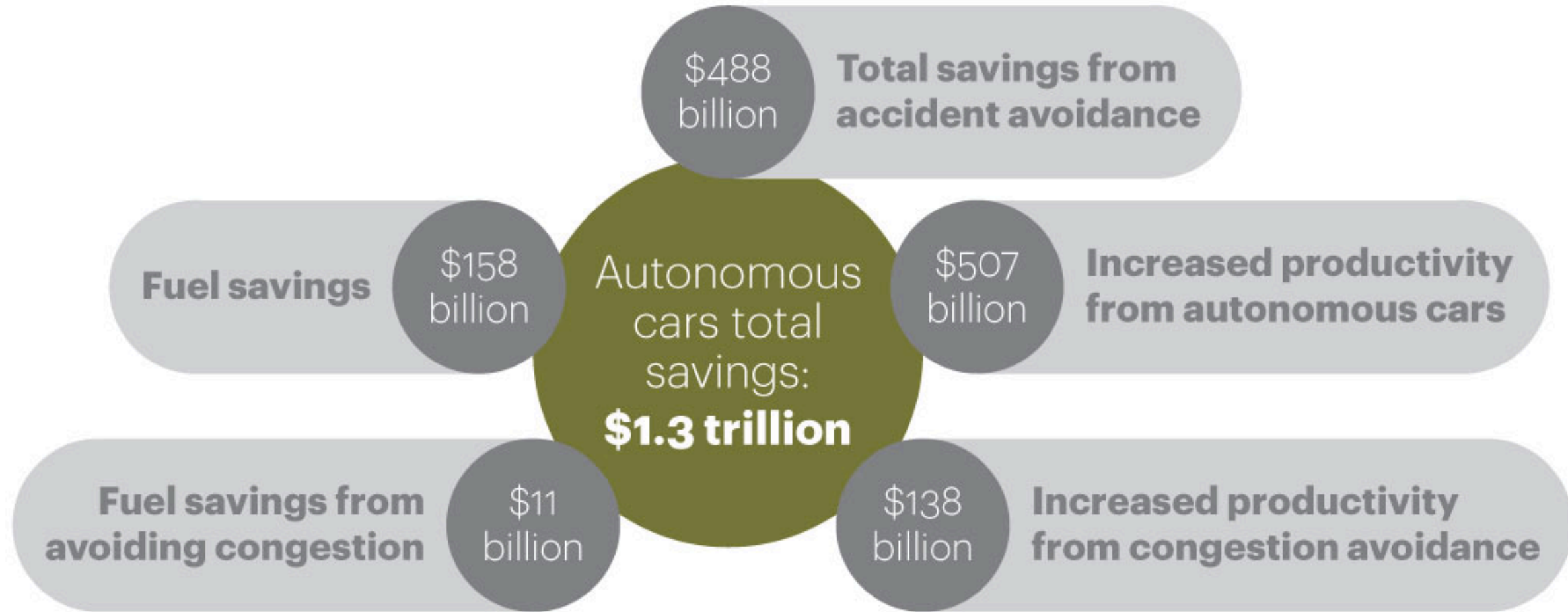
Shared



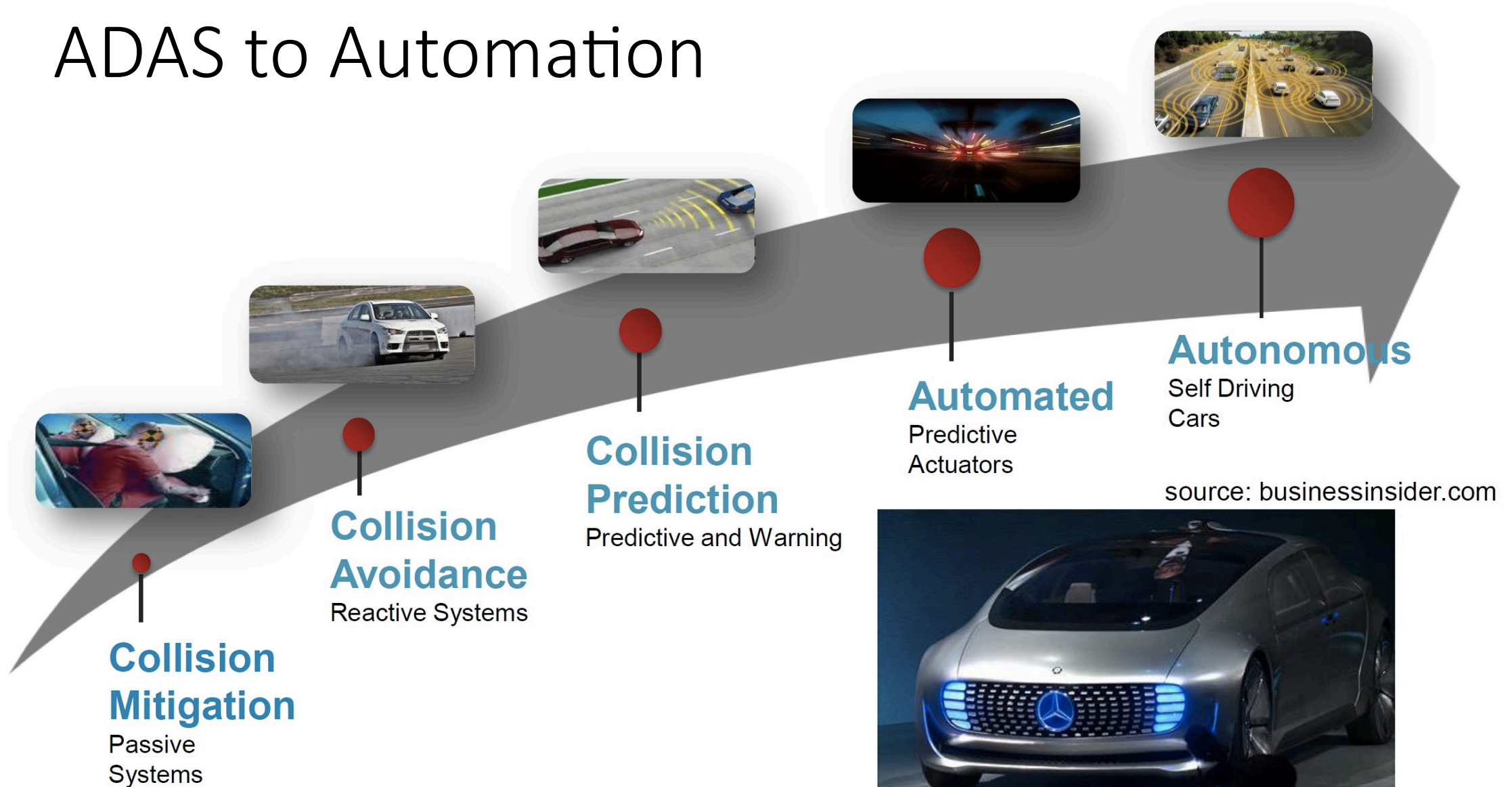
HUGE: Applications for Autonomy



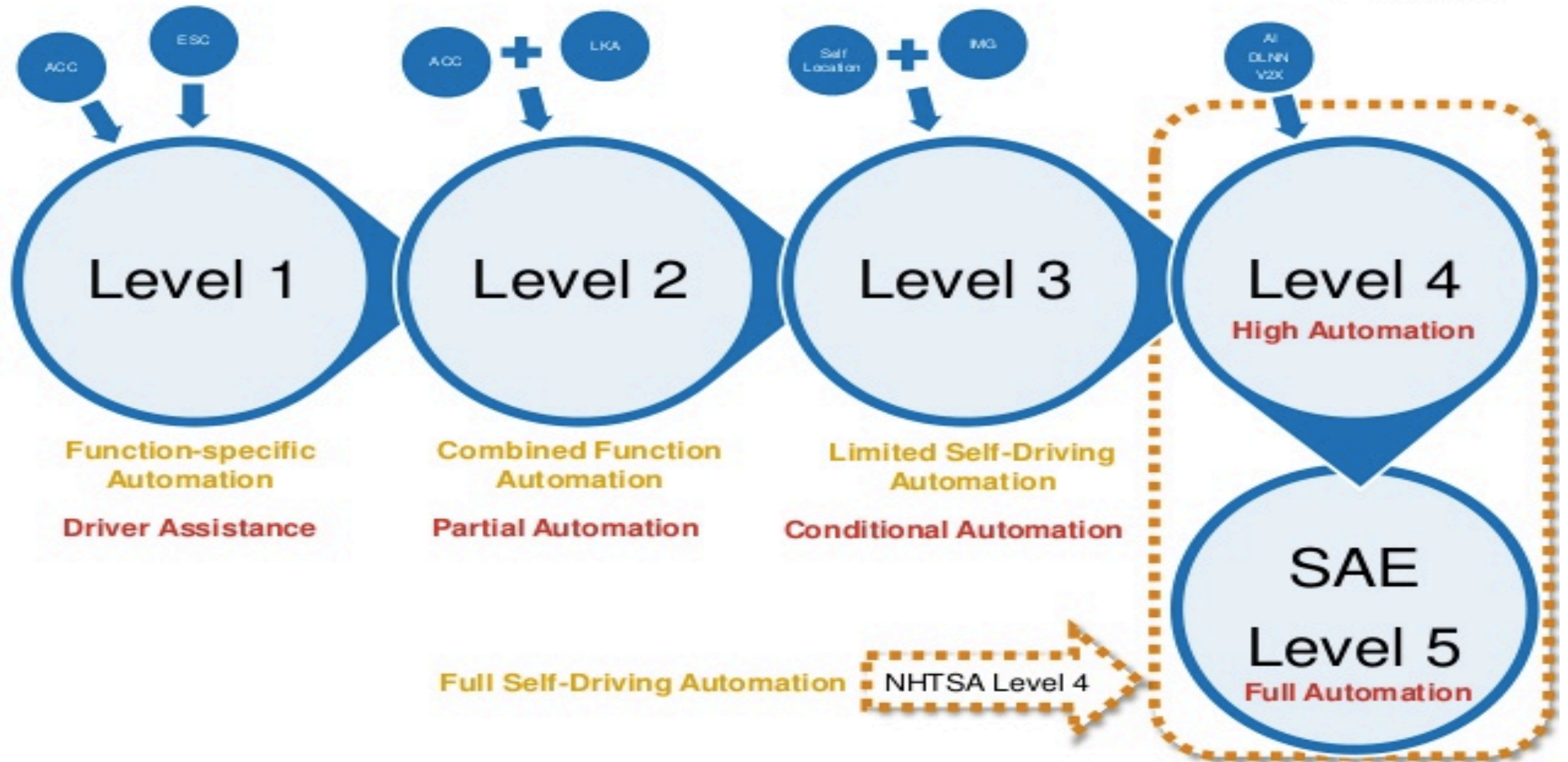
Autonomous Vehicles Will Generate Huge Economic Benefits



ADAS to Automation

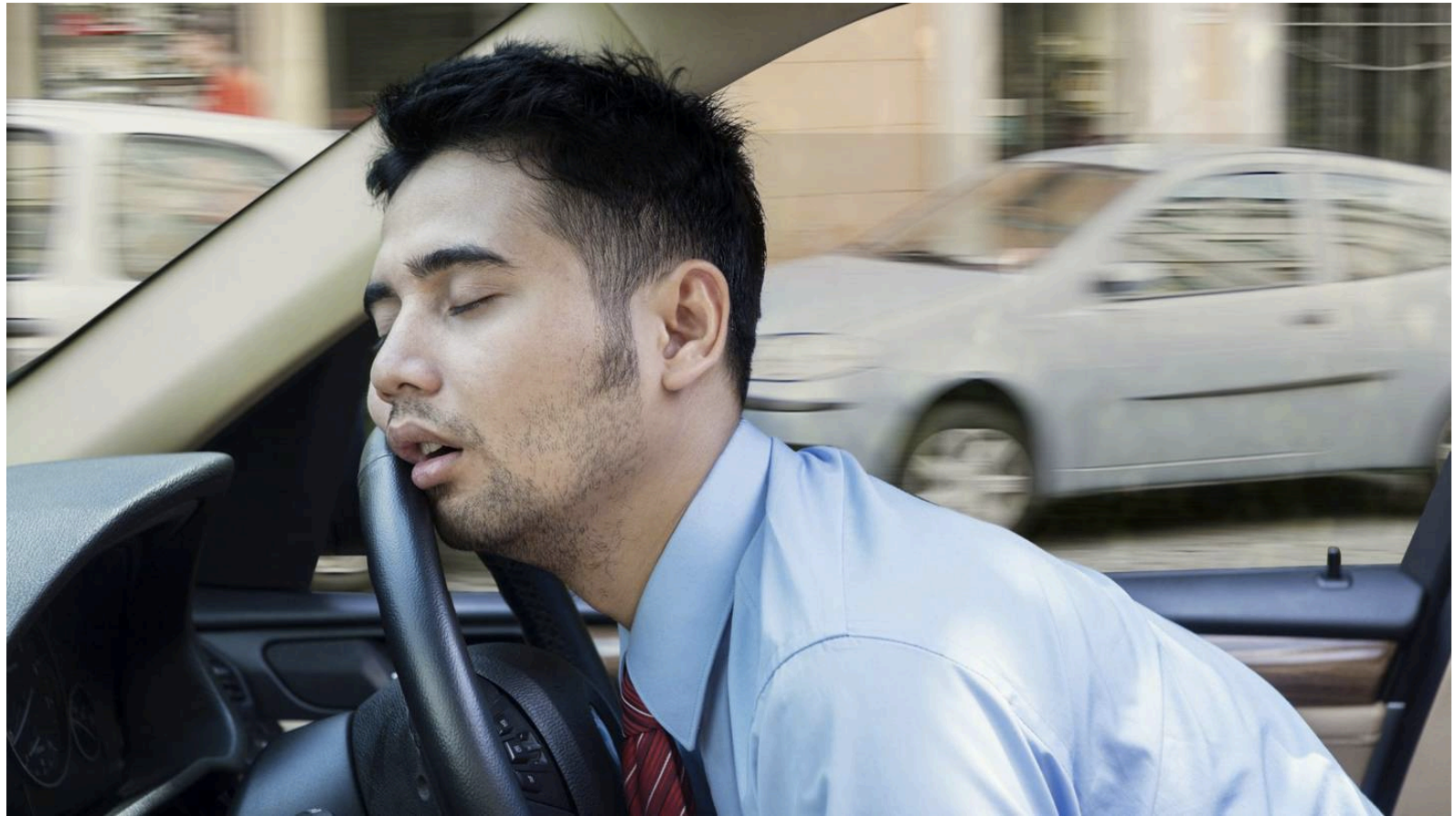


NHTSA and SAE Levels of Automated Driving



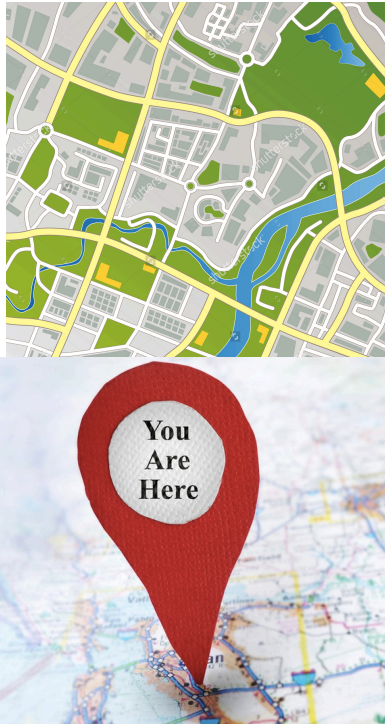
What's Wrong with Level 3 Automation?

“Ford Engineers Are Falling Asleep While Monitoring Self-Driving Cars”



So how do Autonomous Cars work anyway?

MAPPING



LOCALIZATION

Deep Learning



PERCEPTION

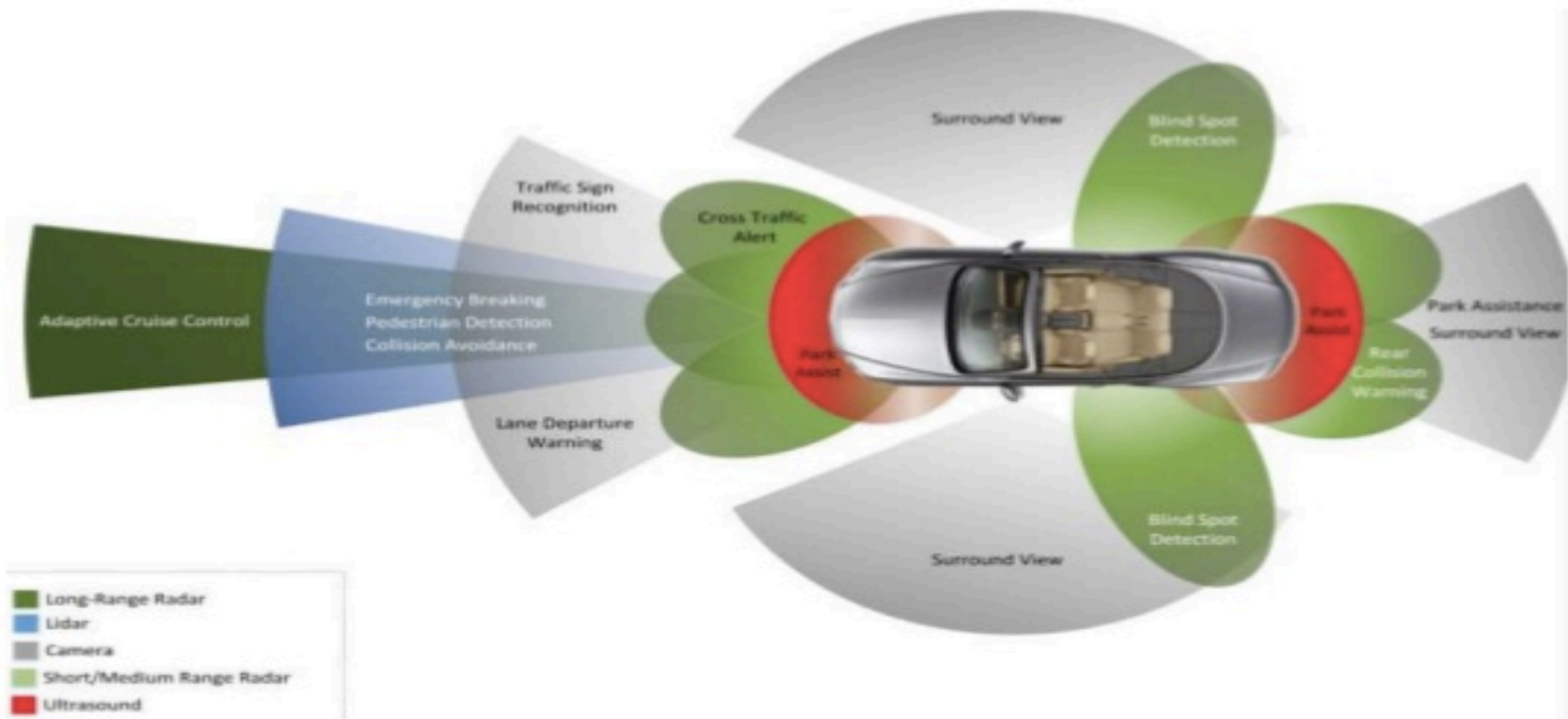


ANALYZE & PLAN

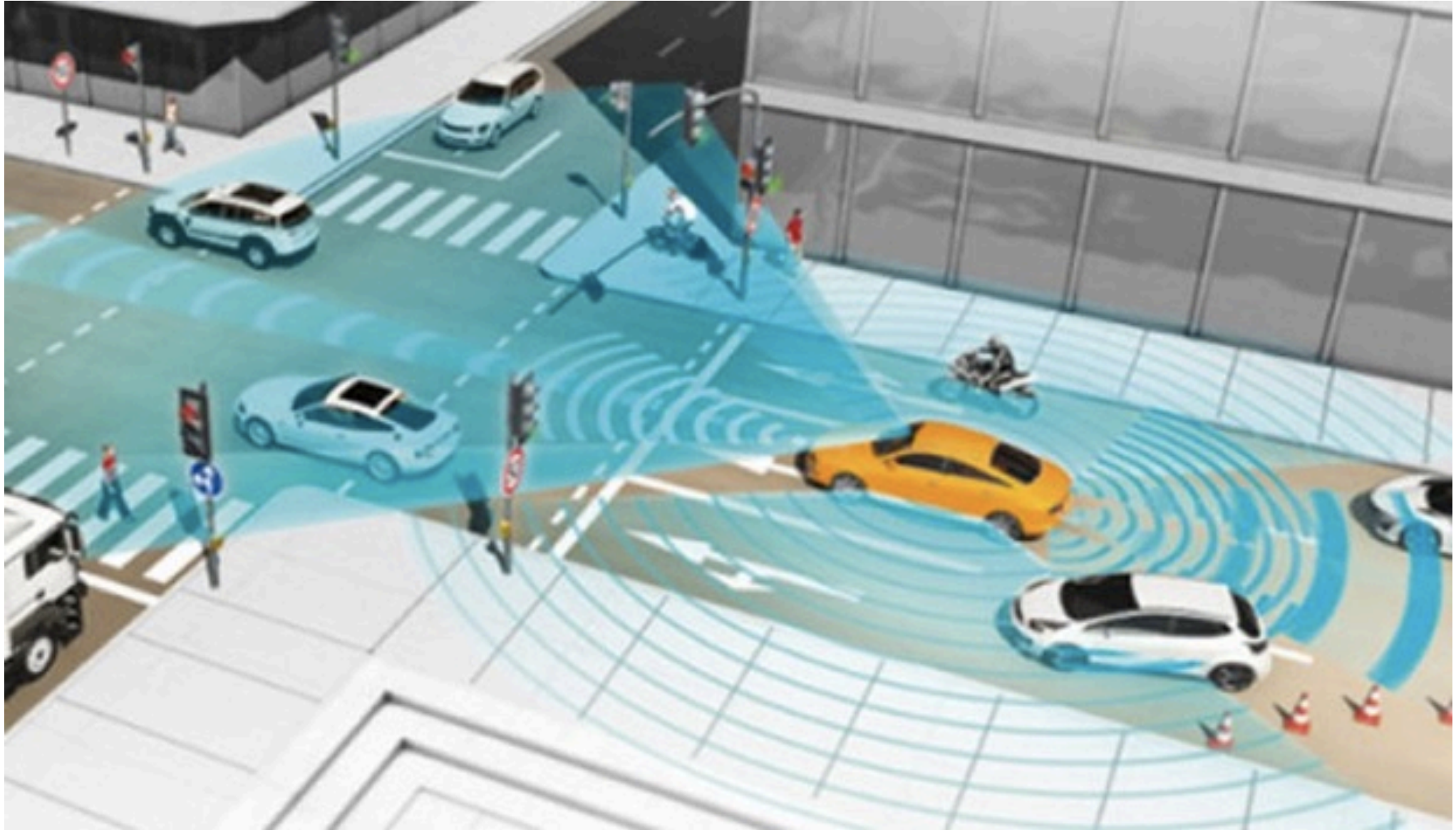


ROBOT DRIVE

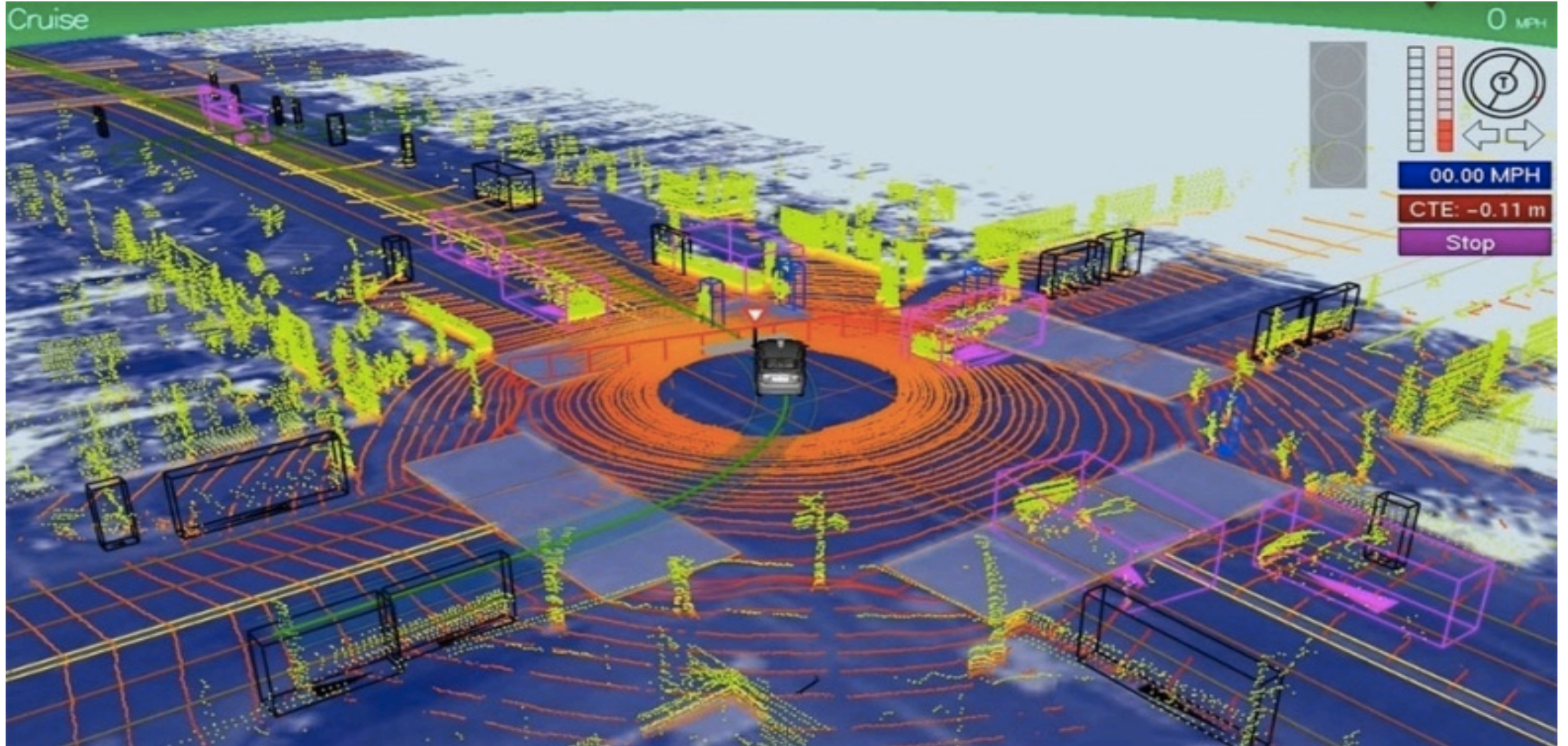
Sensors and Cameras Everywhere



Localization: Where am I, exactly?



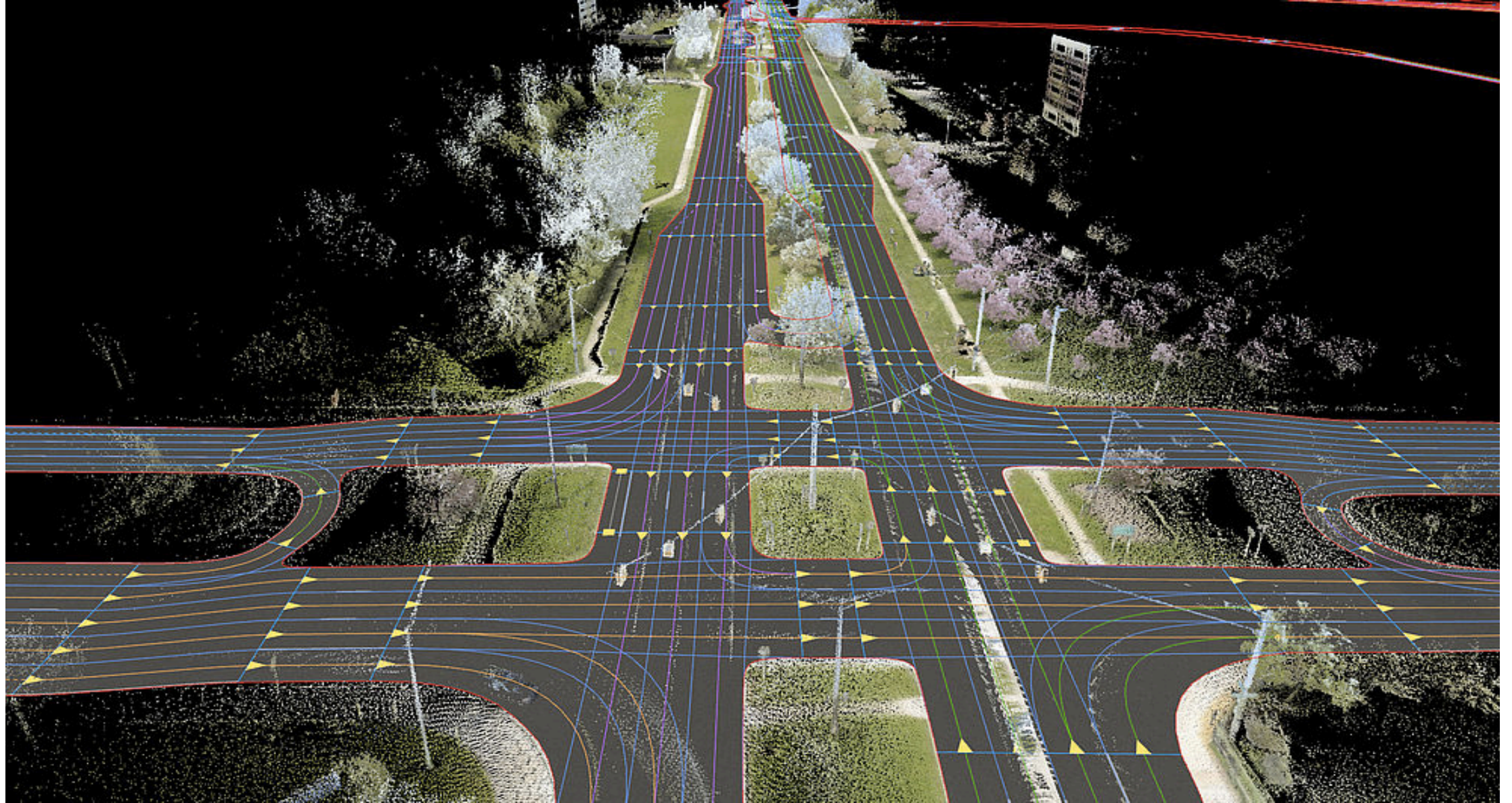
PERCEPTION: LiDAR + Vision + Radar + Infrared



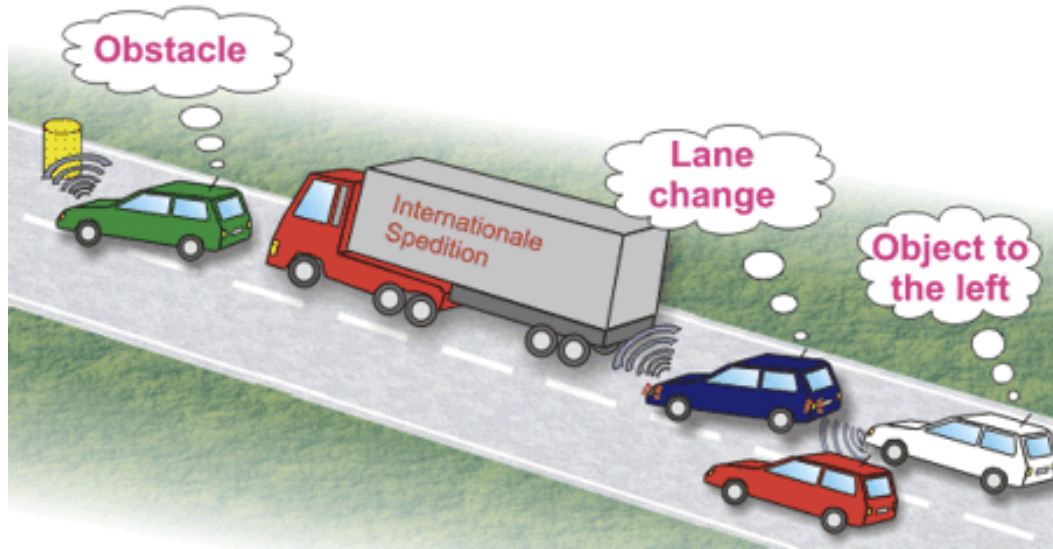
Sensor Fusion Creates Big Data



Machine Readable Maps



V2V: Seeing around corners, seeing thru cars



It's all software: So how do we test it... safely?

The Big Secret



It's all software: So how do we test it... safely?

CROWSOURCED FLEET



SHADOW MODE



The Building Blocks of Autonomy

Prepared by  VISION SYSTEMS INTELLIGENCE

AUTONOMOUS SOLUTIONS



Level of Integration

PROCESSING

SENSORS

CONNECTIVITY

MAPPING

ALGORITHMS

SECURITY/SAFETY

DEVELOPMENT TOOLS

ICEBREAKER VENTURES



The Autonomous World Fund
A corporate ecosystem venture fund for the new age of
intelligent mobility



Icebreaker Ventures

February 2017

Thank You!

Mark Platshon, Icebreaker Ventures
mark@icebreakerventures.com