June 4, 2018

Karl Iagnemma
President, Automated Mobility, Mobility and Services Group

PATH TO COMMERCIALIZING AUTOMATED DRIVING

APTIV

Forward Looking Statements

This presentation, as well as other statements made by Aptiv PLC (the “Company”), contain forward-looking statements that reflect, when made, the Company’s current views with respect to current events, certain investments and acquisitions and financial performance. Such forward-looking statements are subject to many risks, uncertainties and factors relating to the Company’s operations and business environment, which may cause the actual results of the Company to be materially different from any future results. All statements that address future operating, financial or business performance or the Company’s strategies or expectations are forward-looking statements. Factors that could cause actual results to differ materially from these forward-looking statements are discussed under the captions “Risk Factors” and “Management’s Discussion and Analysis of Financial Condition and Results of Operations” in the Company’s filings with the Securities and Exchange Commission. New risks and uncertainties arise from time to time, and it is impossible for us to predict these events or how they may affect the Company. It should be remembered that the price of the ordinary shares and any income from them can go down as well as up. The Company disclaims any intention or obligation to update or revise any forward-looking statements, whether as a result of new information, future events and/or otherwise, except as may be required by law.


94%
OF ALL ACCIDENTS ARE CAUSED BY HUMAN ERROR.
NHTSA
www.nhtsa.gov
1.25
MILLION ROAD TRAFFIC DEATHS ANNUALLY
World Health Organization

APTIV

Urban Mobility CHALLENGES by 2050

+70%
Of Population

+40%
freight

5x
Emissions

4x
Cost

3x
Travel time

BENEFITS of mobility automation to cities

28%
Fewer Vehicles

87%
Fewer Accidents

66%
Lower Emissions

44%
Fewer Parking Spaces

30%
Shorter Travel Time

APTIV

Addressing Mobility's Toughest Challenges

WE DEVELOP ADVANCED TECHNOLOGIES THAT MAKE THE WORLD MORE SAFE, GREEN, AND CONNECTED BY PROVIDING OUR CUSTOMERS WITH INTELLIGENT MOBILITY SOLUTIONS

APTIV

SOFTWARE

SENSING AND COMPUTING

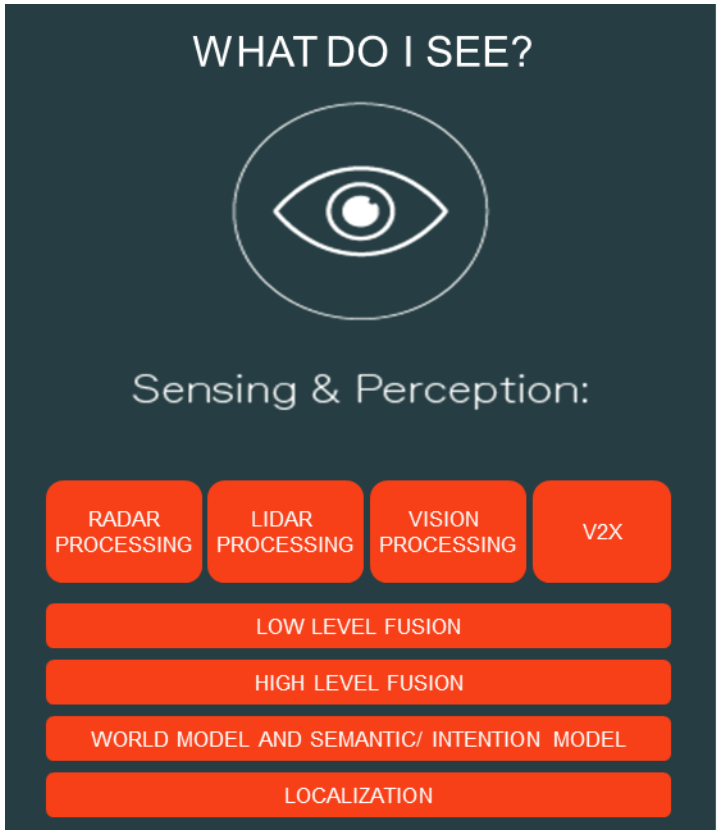
SIGNAL & POWER DISTRIBUTION

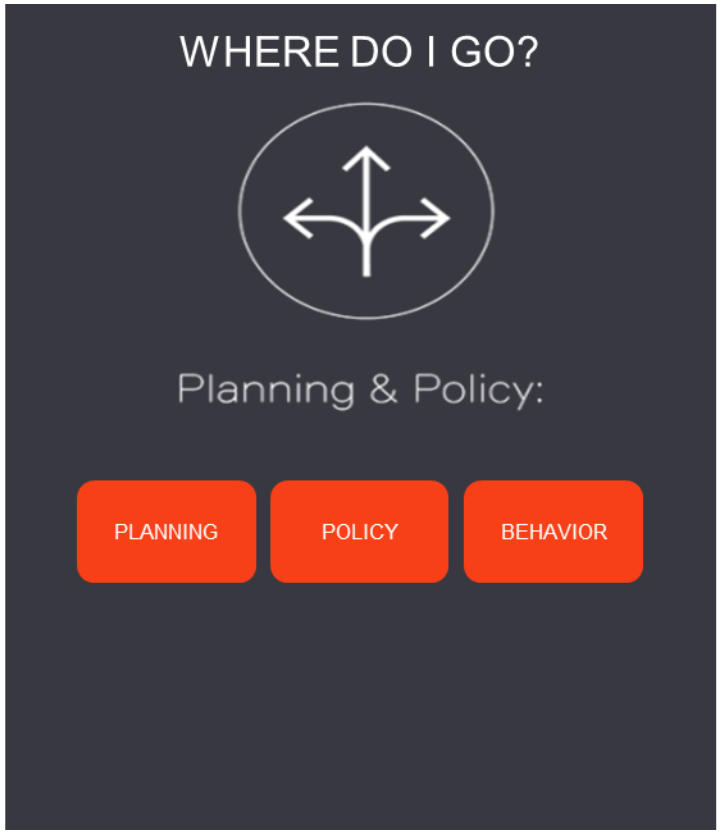
CONNECTIVITY

COMMERCIALIZABLE SOLUTIONS FOR AUTOMATED DRIVING

Aptiv Automated Driving Capabilities

UNMATCHED POSITION IN AUTOMATED DRIVING WITH DEEP SOFTWARE, COMPUTING AND AUTOMOTIVE-GRADE INDUSTRIALIZATION CAPABILITIES

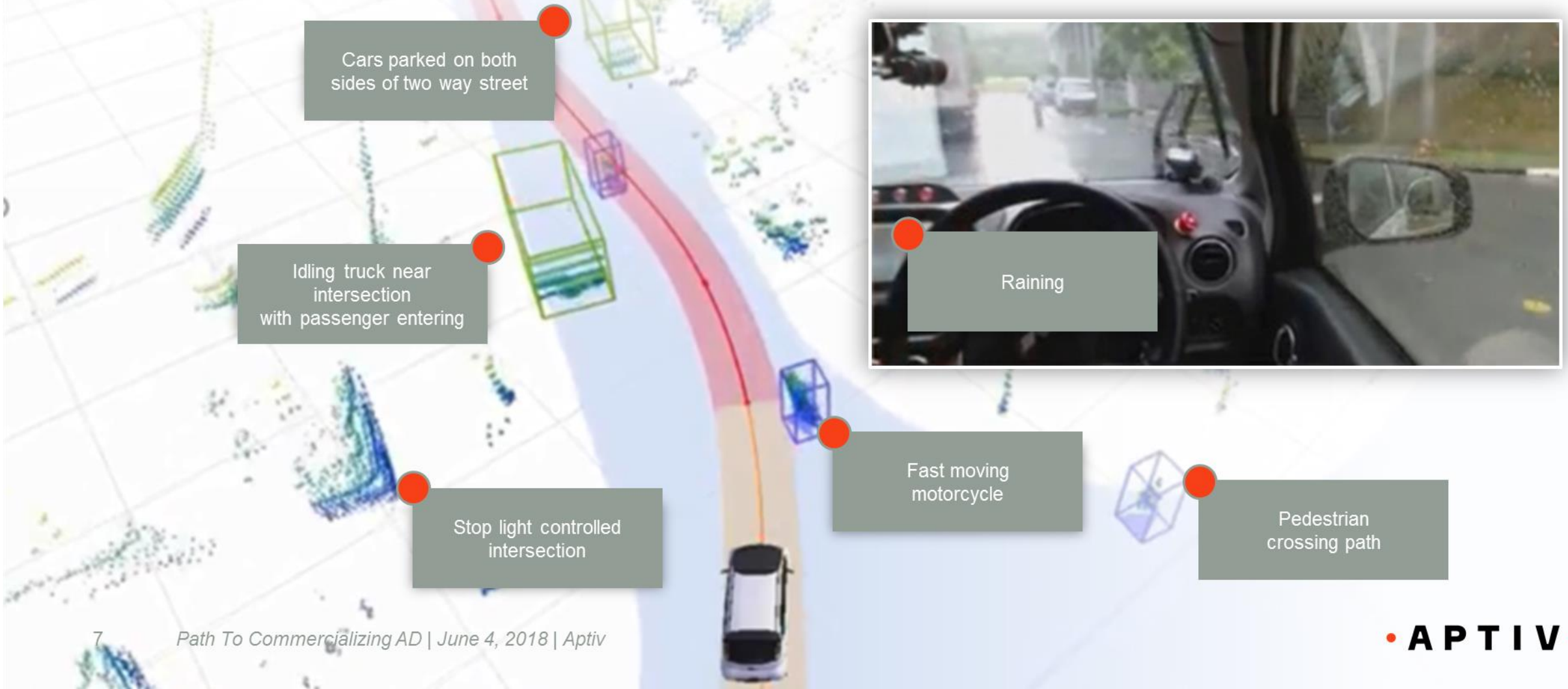




APTIV

Handling Complex Scenarios

EVEN COMMON DRIVING SCENARIOS CAN PRESENT COMPLEX CHALLENGES; NOVEL METHODS ARE NEEDED THAT GUARANTEE CORRECT BEHAVIORS AND ENABLE COMMERCIALIZATION



APTIV

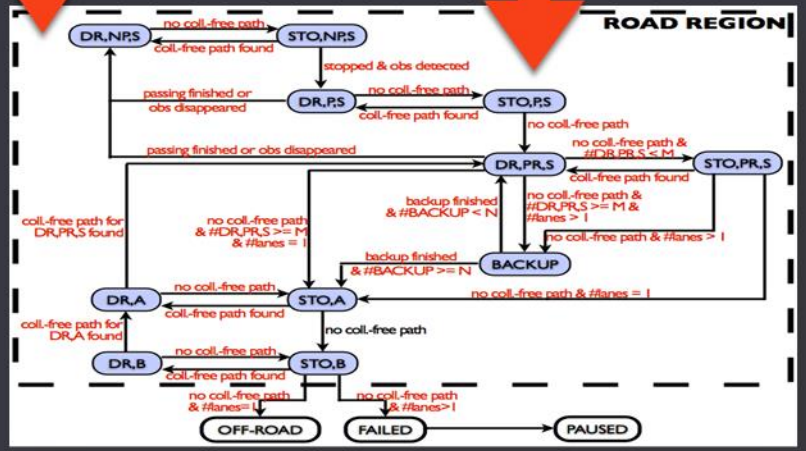
AD Software Development Approaches

BOTH RULES BASED AND END TO END ARTIFICIAL INTELLIGENCE APPROACHES FACE SIMILAR CHALLENGES…

TRADITIONAL RULES BASED APPROACH

YEARS OF WORK, SEVERAL PHD THESES

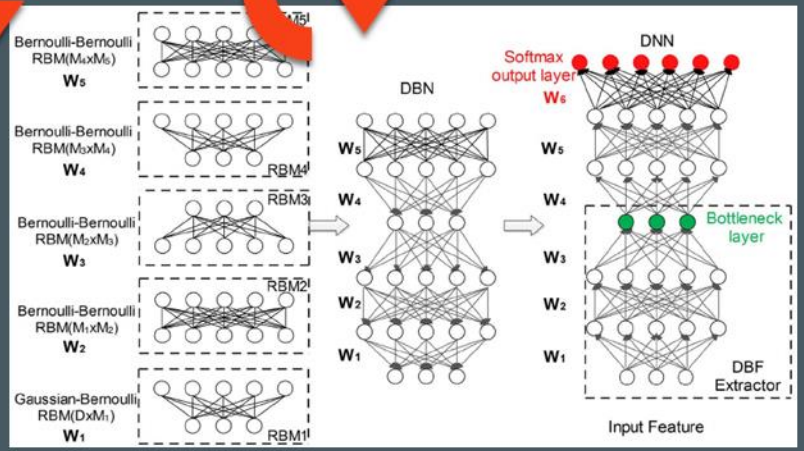
HUMAN INSIGHT AND EXPERTISE



END TO END AI APPROACH

DATA

NEURAL NETWORK TRAINING IN DATA CENTER OR THE CLOUD



APTIV

… AND SIMILAR LIMITATION: COMPLEXITY

Computational complexity is high for logic-based approaches, and **sample and model complexity** are high for learning-based approaches

Validation and **auditing** of either approach is dauntingly complex and/or not well understood

Updates and maintenance: Nature and impact of changes necessary to remove newly found defects are unclear and difficult to analyze

APTIV

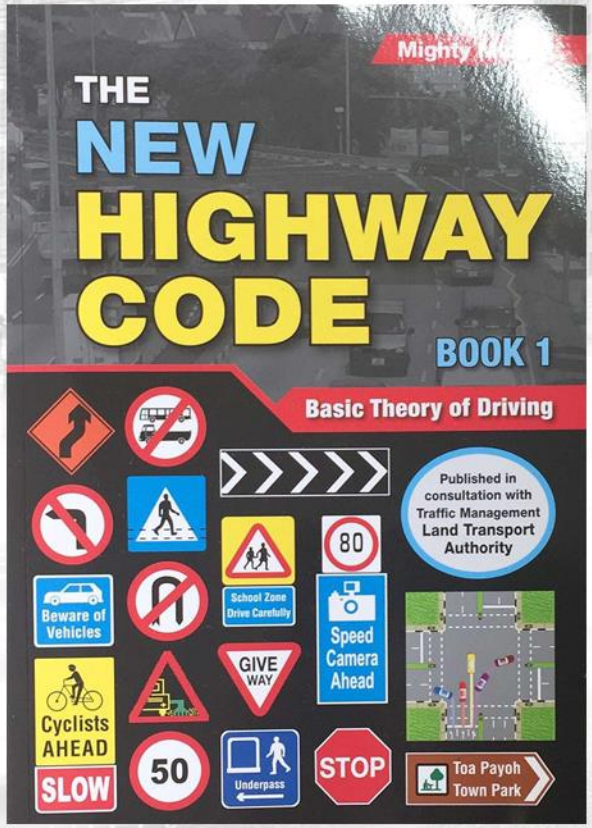
Aptiv's Approach: Structured AI

STRUCTURED ARTIFICIAL INTELLIGENCE: COMBINING THE BEST OF BOTH APPROACHES

STRUCTURED ARTIFICIAL INTELLIGENCE:
LEVERAGING TRADITIONAL RULES BASED AND AI APPROACHES TO AUTOMATED DRIVING SOFTWARE DEVELOPMENT

Structured AI Similar To How We Teach Humans

WE TEACH THEM THE “RULES OF THE ROAD”, BEST PRACTICES AND HOLD THEM ACCOUNTABLE



START WITH RULES…

- Who can drive what / when / where, and who has the right of way
- At what speed, and in which direction
- Where can one park / stop
- How to use/interpret active and passive signals

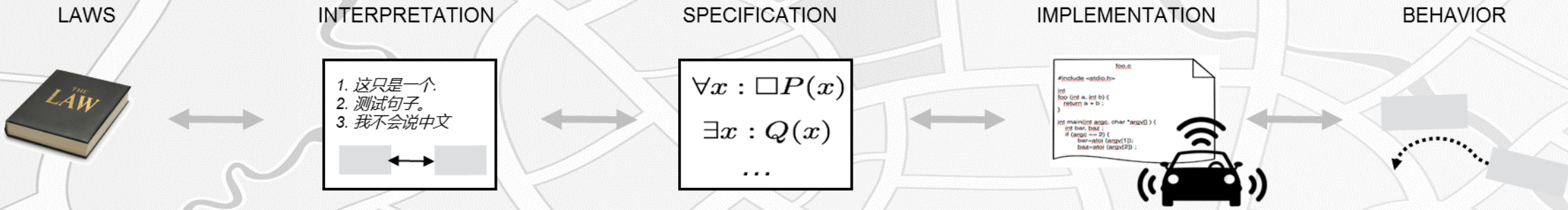
… AND GIVE THEM PRACTICE TO LEARN

- Learn how to handle special situations through practice and observation
- We do not tell them exactly what to do in ALL situations, but we also do not trust “experience” exclusively

APTIV

Benefits of Structured Artificial Intelligence

WE CAN GO FROM LAWS, TO SPECIFICATION, TO IMPLEMENTATION, TO BEHAVIOR AND BACK



APTIV'S APPROACH

- Easy to explain system of precisely expressed "rules"
  - Rules organized hierarchically with some rules more important than others
  - Potential rule violation is quantified and weighted with regard to same priority rule
- Easy for stakeholders to understand and give consent
- Easy to audit in all situations: Traceable, consistent, and expressive

APTIV

Commercializing Automated Driving

APPLYING DECADES OF EXPERIENCE IN AUTOMOTIVE GRADE SAFETY SOLUTIONS TO ADVANCE THE FUTURE OF MOBILITY

FOUNDATION

DEEP VEHICLE SYSTEMS KNOWLEDGE

CERTIFICATION AND TESTING EXPERTISE

30 YEARS OF SAFETY EXPERIENCE

DEVELOPMENT & TESTING

40,000+ SIMULATED SCENARIOS

2 MILLION AUTOMATED MILES TRAVELED BY YEAR END

CERTIFIED SAFETY DRIVERS

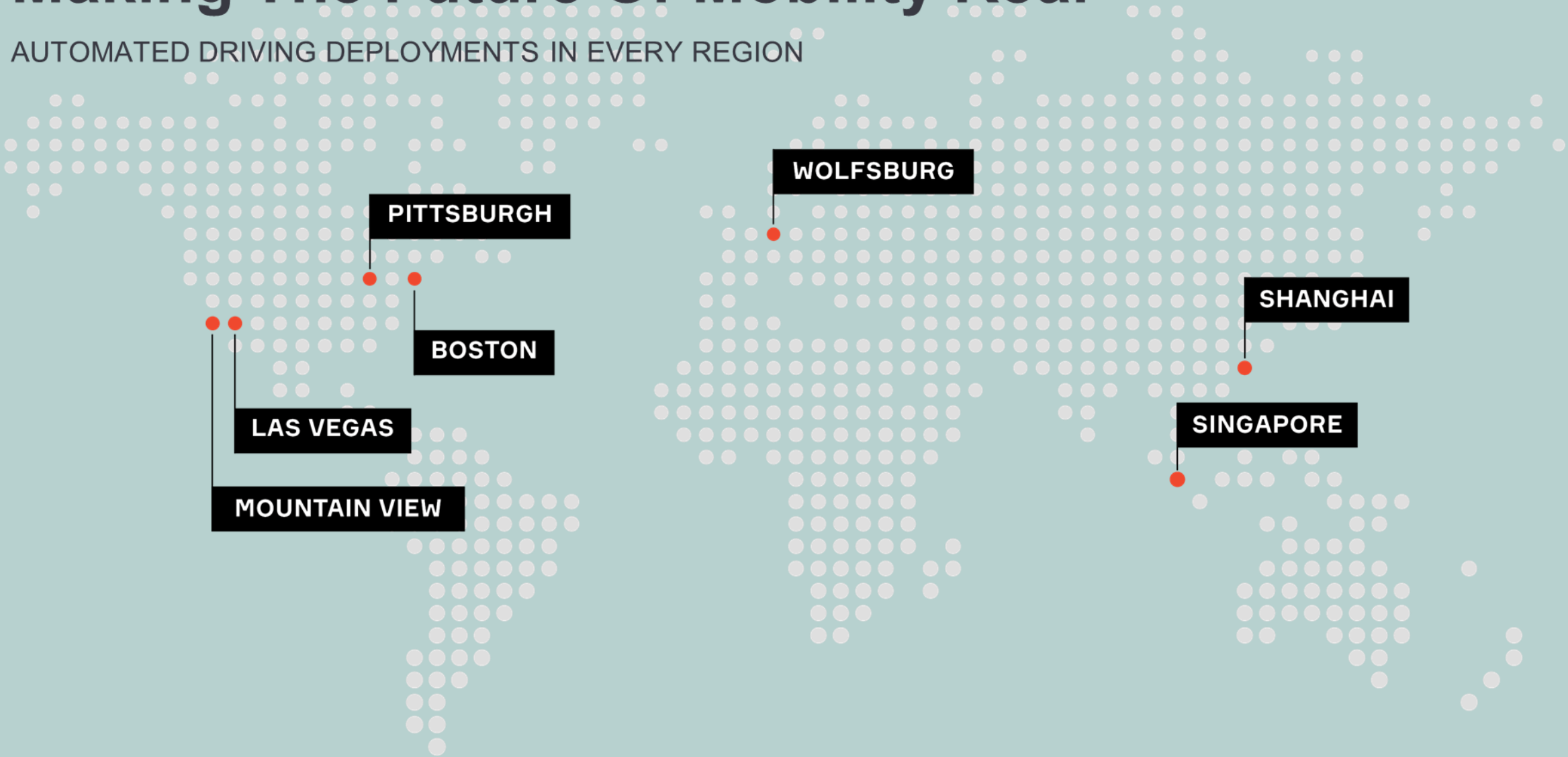
INDUSTRIALIZATION

FAIL-SAFE ARCHITECTURE

FAIL-SAFE SOFTWARE

Making The Future Of Mobility Real

AUTOMATED DRIVING DEPLOYMENTS IN EVERY REGION



Expanding Las Vegas Presence

NEW AUTOMATED DRIVING TECH CENTER AND EXPANDED LYFT DEPLOYMENT

OPERATIONS AND COMMAND CENTER

Hub for operational support, while also enhancing development and testing

TECHNOLOGY SHOWCASE

Innovation and customer demonstration showcase

DEPLOYING 30 APTIV AUTOMATED VEHICLES ON LYFT NETWORK

Multi-year agreement represents clear step toward commercialization


APTIV