June 6, 2019

2019 RBC CAPITAL MARKETS – FUTURE OF MOBILITY CONFERENCE

Karl Iagnemma

President, Aptiv Autonomous Mobility

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.

Urban Mobility CHALLENGES by 2050

+70%
Of Population

+40%
Freight

5x
Emissions

4x
Cost

3x
Travel time

Source: Arthur D. Little, World Economic Forum, Boston Consulting Group and Aptiv Estimates

BENEFITS of smart mobility automation to cities

87%
Fewer Accidents

28%
Fewer Vehicles

66%
Lower Emissions

44%
Fewer Parking Spaces

30%
Shorter Travel Time

APTIV

Leveraging Aptiv's Full Capabilities

FLEXIBLE AND SCALABLE APPROACH TO SOFTWARE, RUNNING ON OPTIMIZED VEHICLE ARCHITECTURE

ADVANCED SOFTWARE

CLOUD

APPLICATION LAYER

MIDDLEWARE

OPERATING SYSTEM

HARDWARE ABSTRACTION

COMPUTE

DATA & POWER DISTRIBUTION

SENSORS, PERIPHERALS & ACTUATORS

ADVANCED ARCHITECTURES

MODULAR APPROACH

Flexible software design allows tailored solution

POLICY & PLANNING

nuTonomy

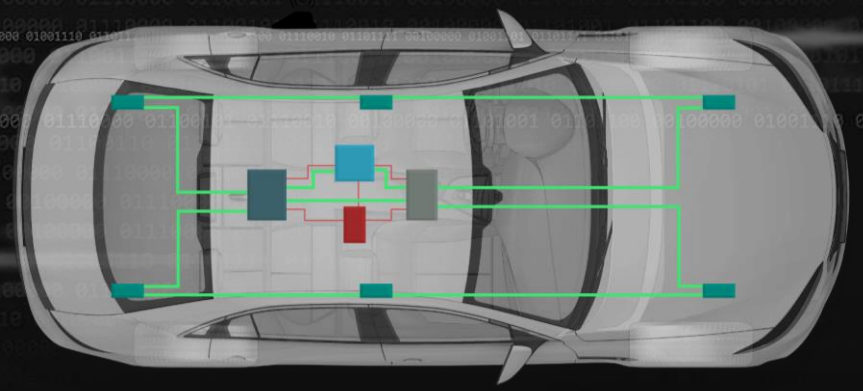
ottomatika

Combined DNA from two full-stack automated driving teams

SCALABLE PLATFORM

LEVEL 1 to LEVEL 5

Seamless scalability from Active Safety to Automated Driving



SMART VEHICLE ARCHITECTURE

Optimized vehicle architectures enabling fail-operational performance

Structured AI Approach

COMBINING THE BEST OF RULES BASED AND AI APPROACHES TO AUTOMATED DRIVING SOFTWARE DEVELOPMENT

EXPLAINABLE

AUDITABLE

START WITH RULES OF THE ROAD

- Rules organized hierarchically with some rules more important than others
- Potential rule violation quantified / weighted with regard to same priority rule

AI FILLS IN CORNER CASES

- Unique situations / cultural norms addressed through applied machine learning
- Avoids exhaustive description of rule combinations / region specific rewrites

APTIV

Las Vegas Commercial Deployment

DEVELOPING APPROACH THAT ALLOWS APTIV TO QUICKLY AND EFFICIENTLY SCALE FUTURE DEPLOYMENTS

GAINING REAL-WORLD EXPERIENCE

- Deep understanding of support requirements for ongoing operations
- Act as an ambassador for the technology

STANDARD OPERATING PROCEDURES

- Clearly defining value chain roles and responsibilities, key touch points
- Validating commercial model / optimum allocation of trips

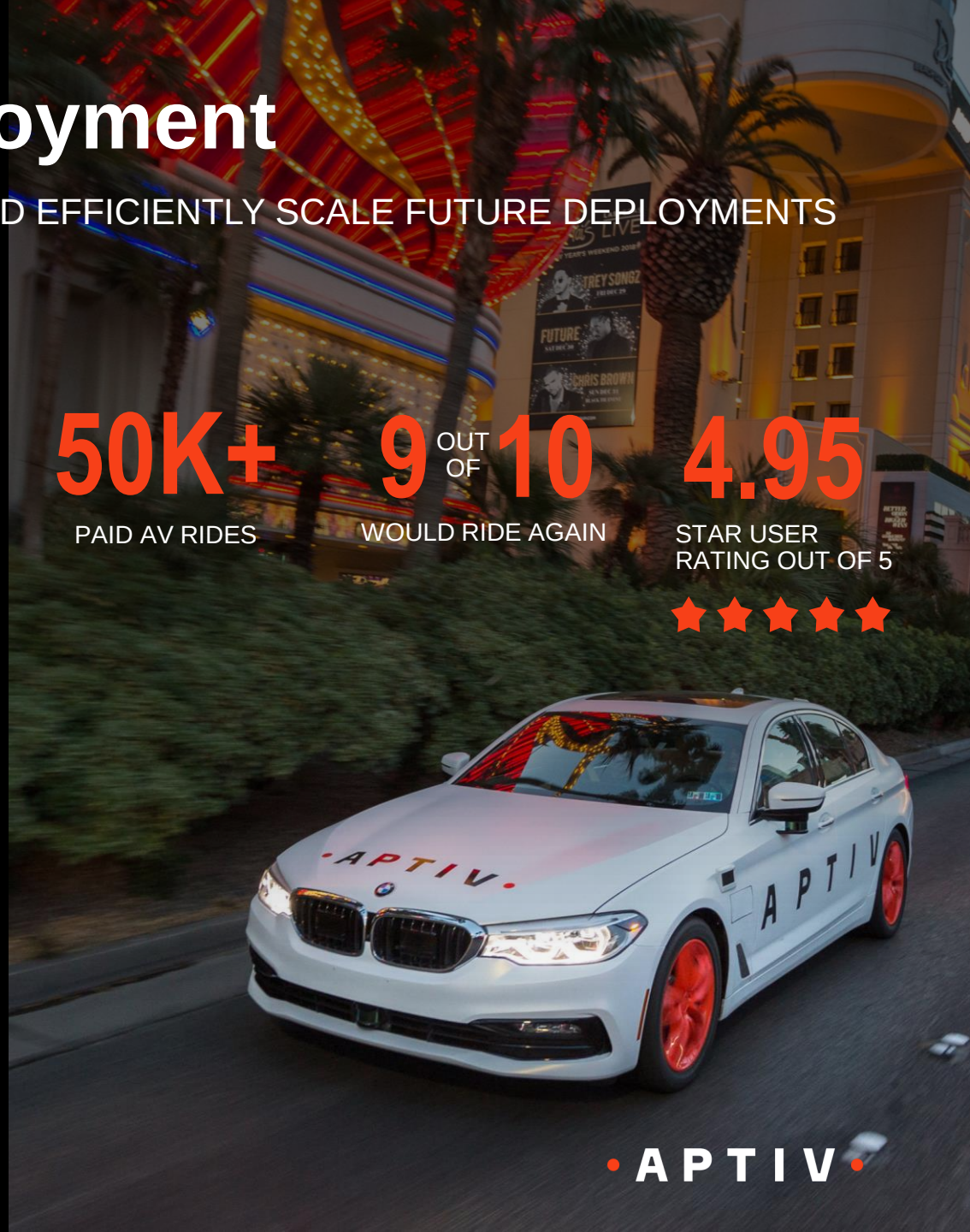
SUPPORTING TECH / IP DEVELOPMENT

- Command Center developing teleoperations capabilities
- Demonstrate application / first-use of IP in real-world deployment

50K+
PAID AV RIDES

9 OUT OF 10
WOULD RIDE AGAIN

4.95
STAR USER RATING OUT OF 5



APTIV

Path to Commercialization

CONTINUED PROGRESS, DEPLOYMENT TIMEFRAME REMAINS UNCHANGED

NEXT GENERATION VEHICLE PLATFORM

Vehicle capable of driverless operation

- Modular code structure
- Mobility Cloud integration
- Drive-by-wire interface
- Redundant power brakes and steering gears
- Self actuating doors
- Safety architecture with two redundant safety channels

APTIV

Smart City Selection

DEPLOYMENTS EXECUTED ON A SELECTIVE CITY BY CITY BASIS TO MAXIMIZE RETURN ON INVESTMENT

MARKET SELECTION CRITERIA

DEMOGRAPHIC

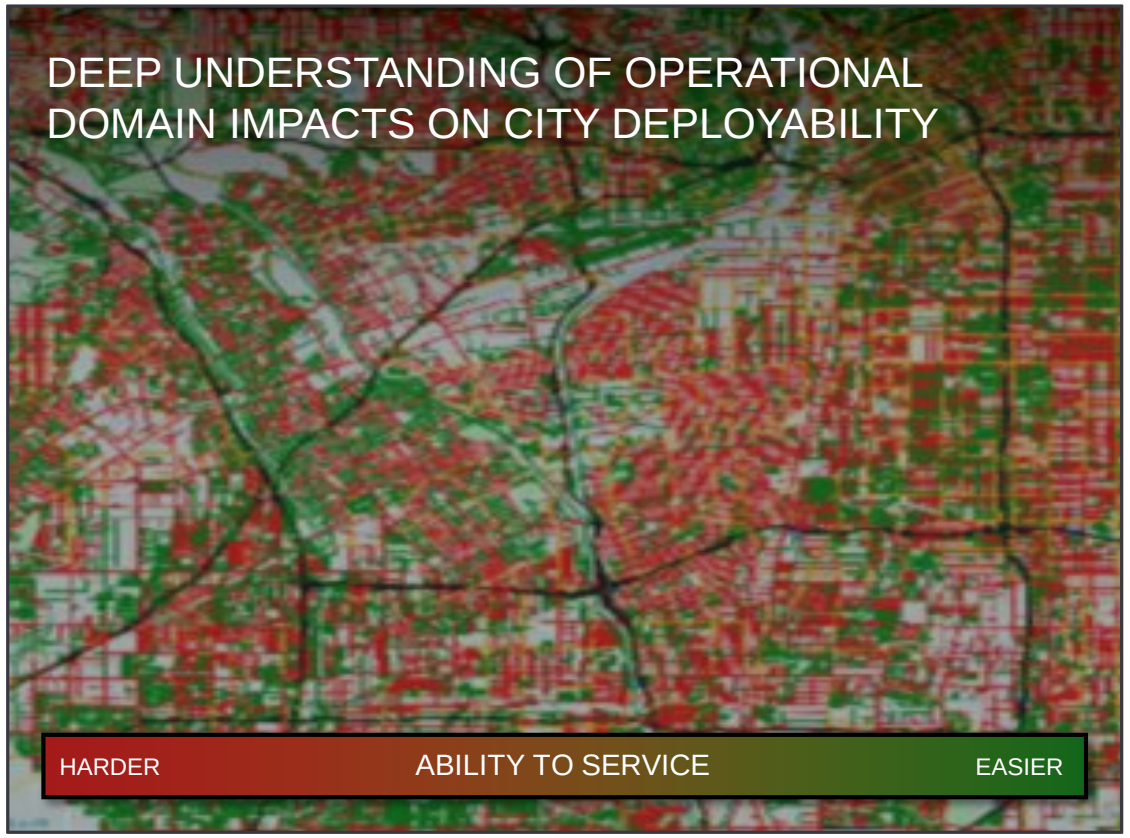
- Ride Hailing Penetration And Driver Income
- Population Density
- Climate / Weather

OPERATIONAL DOMAIN

- Number Of Vehicles Required
- Traffic Speed, Corner Cases Encountered
- Similarities To Other Deployed Cities

INTANGIBLES

- Market Need / Opportunity To Address Transit Issues
- Alignment To City Strategy / Municipal Buy-In



APTIV

AMoD Requires Four Primary Roles

MOBILITY PROVIDERS NEED APTIV AUTOMATED DRIVING SOLUTIONS

AUTOMATED DRIVING SYSTEM

- Software
- Sensors
- Compute platform
- Mobility cloud

Las Vegas Example

APTIV

VEHICLE

- Vehicle development
- Vehicle production
- Automated driving system integration

ASSET OWNER & MANAGER

- Vehicle ownership
- Vehicle financing
- Fleet management
  Cleaning, repair, charging, parking, insurance, etc.

Hertz
DONLEN

NETWORK PROVIDER

- Consumer interface
- Demand fulfilment

lyft

BROADER ECOSYSTEM

APTIV
(DATA MONETIZATION)

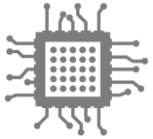
LAS VEGAS CASINOS
(DATA CONSUMERS)

RTC
CITY OF LAS VEGAS NEVADA
LVPD
(LAS VEGAS STAKEHOLDERS AND REGULATORY BODIES)

Automated Mobility Deployment Phases

APTIV UNIQUELY POSITIONED FOR SUCCESS ACROSS EACH PHASE OF AD MATURITY

TODAY | 2020 DRIVER OUT OF THE VEHICLE | 2022 | 2025 | 2030

PHASE	COMMERCIAL DEMONSTRATIONS	GREENFIELD LAUNCHES	BROADER ADOPTION	OEM CONVERGENCE
SOFTWARE MATURITY 	**LIMITED CAPABILITIES** Manual interventions required for corner cases, necessitates a safety driver	**SMALL, BUT VIABLE** Viable without a driver in limited geofenced areas, under strict operating conditions	**RAPID ODD EXPANSION** Significant decrease in limitations increases operational domain.	**ROBUST** Able to handle enough corner cases to make it viable for personal vehicle applications
HARDWARE MATURITY 	**NOT FAIL-SAFE** Safety driver acts as the back-up in the event of a failure; roadmap to removing the driver in 2020	**INDUSTRIAL FAIL-SAFE** Leveraging industrial PC hardware, but sufficient to start driving launches, and beginning to scale	**AUTO GRADE** ASIL-D purpose built hardware is ready for deployment at scale	**OEM STANDARD** OEM vehicles come off the assembly line fully configured for automated driving
COMPETITIVE LANDSCAPE 	**RESEARCH** Many players dabble, but limited real world deployments. Compete for talent and capital, but little else.	**INITIAL DEPLOYMENTS** Greenfield on a city-by-city basis. Compete based on smart deployment SOPs	**MOBILITY SCALE-UP** Significant ramp-up in scale / speed of deployments. Compete based on robustness of operational domain.	**CONVERGING WITH OEMs** OEM AD availability pushes point of AD systems competition earlier in the value chain

APTIV

How Aptiv Makes Money

BUSINESS MODEL DRIVES HIGHER MARGIN RECURRING REVENUE

4

DATA MONETIZATION

Enable data acquisition and monetization through edge processing and OTA

3

FLEET MONITORING

Support network operators through AV fleet performance analytic and teleoperations

2

SOFTWARE LICENSING

Autonomous driving stack including upgrades to performance and operational design domain

1

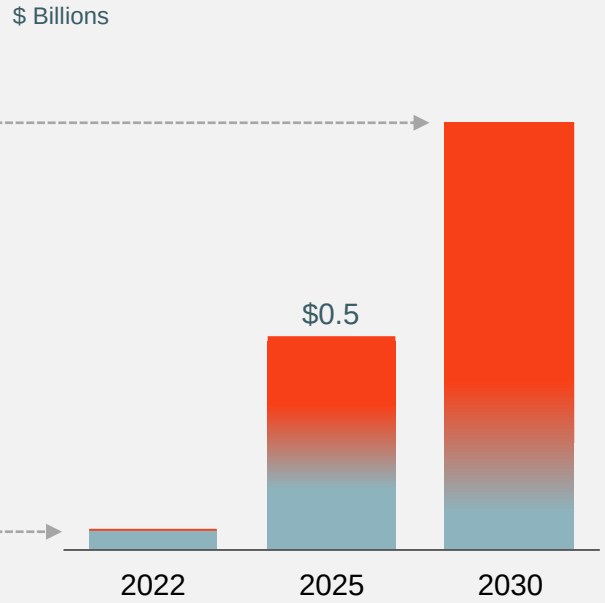
TECHNOLOGY SALE

One-time sale of enabling tech into the vehicle such as sensors, and compute

TIME
SALE

AMoD REVENUE

70 - 80% RECURRING REVENUE AT SCALE



APTIV

Summary

AUTOMATED MOBILITY ON TRACK TO 2025 TARGETS

- Clear strategy for commercialization drives efficient capital deployment, avoids channel conflict
- Deep understanding of operational and regulatory impacts ensures smooth deployments

TECHNOLOGY CAPABILITIES DEVELOPING AS EXPECTED

- 2021 / 2022: Initial launches with mobility providers in geofenced locations
- 2025 - 2030: Improved capabilities, and scale-up of purpose built hardware drives OEM viability

LONGER TERM ROADMAP FOR CONVERGENCE WITH OEMs

- Automated Driving on the spectrum of Active Safety; investments today drive future benefits
- Aptiv's end-to-end solutions enable the commercialization of new mobility


APTIV