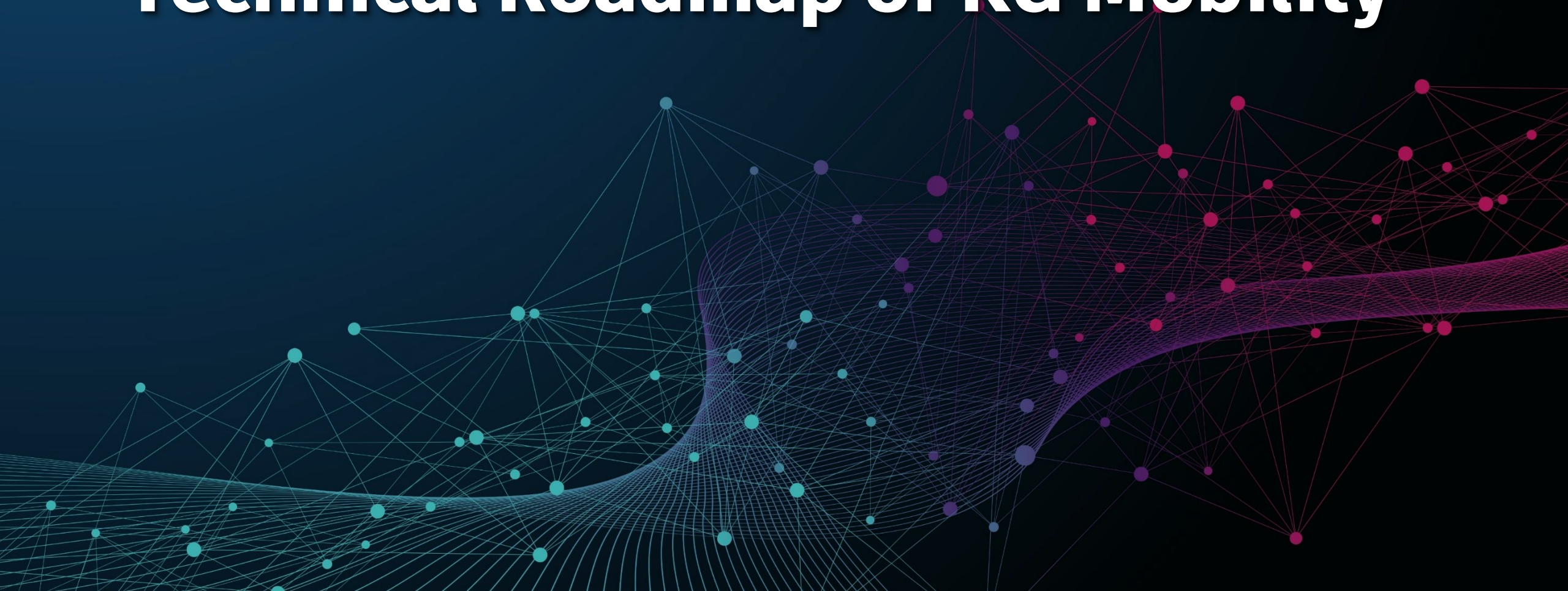
KG MOBILITY

Technical Roadmap of KG Mobility



Eco-friendly Vehicle Development History

2006 1st Diesel Hybrid Development in the world

2010 1st Korando C EV Vehicle Development

2010 2nd Korando C EV Vehicle Development

2011 Seoul Motor Show KEV concept Car

2012 3rd Korando EV Development & ENVEX

2012 1st Korando EV-R Development

2013 1nd Tivoli EV-R / 2nd Korando EV-R Development

2014 Korando C City-oriented EV-R Development

2015 2nd Tivoli EV-R Development

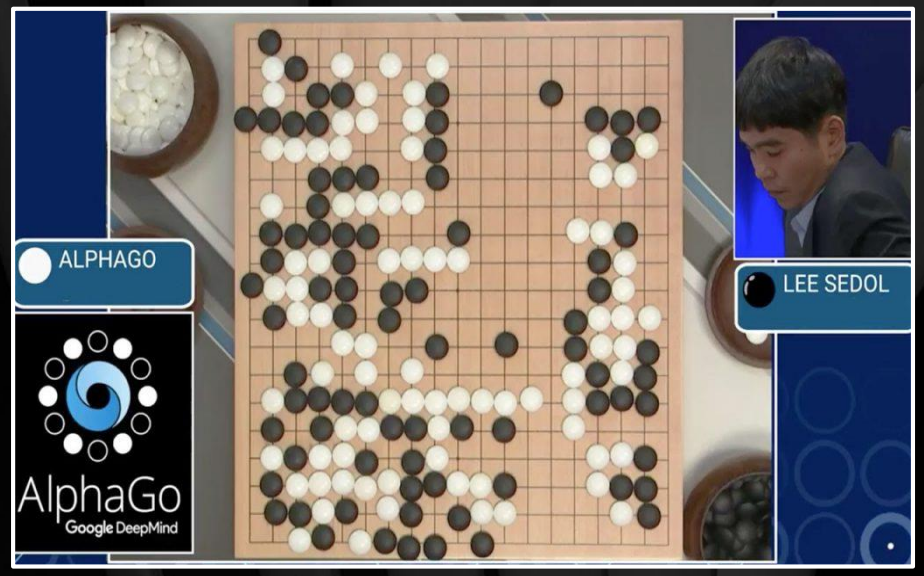
2018~ Mass Production EV Project Development

Eco-friendly Vehicle Development History

2019년 7월 양산 시작, 9월 EU 수출 시작

쌍용자동차 → KG 모빌리티

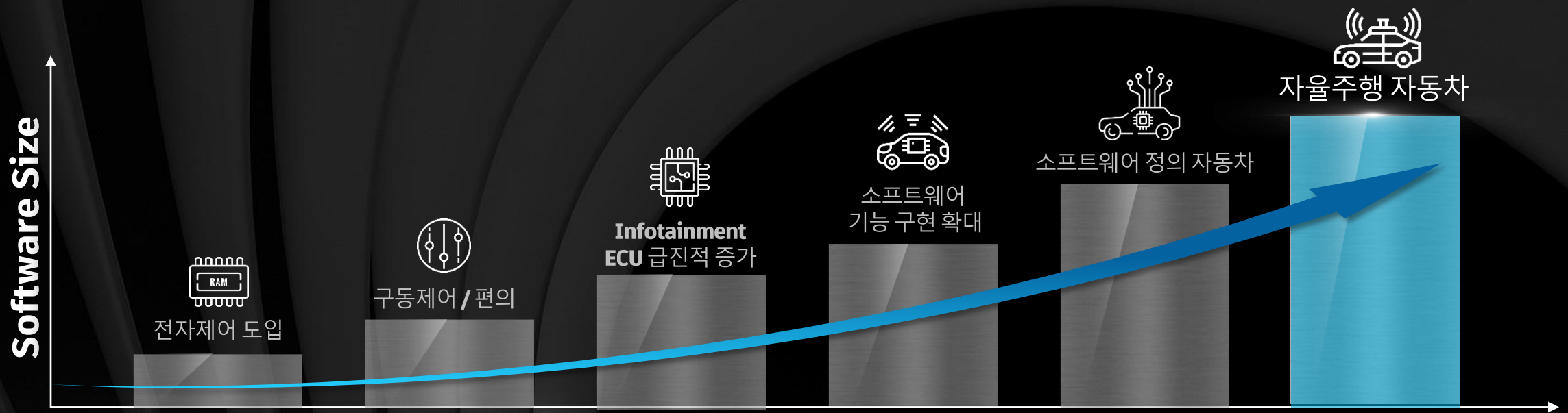
AI vs. Human



Amount of information generated in one minute

64,140	336,480	567,360	5,365,260	5,500,560	181,331,340
Instagram stories posted	Skype calls	Tweets sent	Youtube videos watched	Google searches conducted	Emails sent

Automotive Software Complexity



Line of Code (단위: 백만)

Automotive Technology Mega Trend

Digital Lifestyle

Connected Car

Electrification

HEV, EV

Sharing Economy

Mobility Service

Autonomy

Autonomous Driving

Digital Cockpit

Connected Car

ECU Consolidation

Cockpit for Autonomous

2021

2024

2027

2030

L2+/L3 Highway

L3/ Experimental L4

L4 Motorways

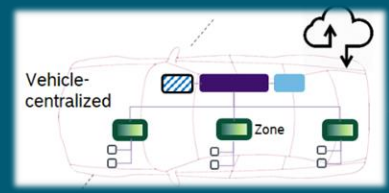
Cockpit for Autonomous

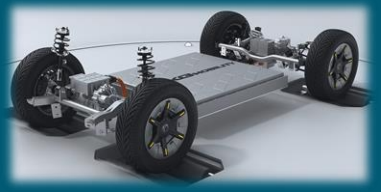
New EE Architecture

Technologies for future Car

SDV
HPCU
OTA
Operating System

AI
Cloud
AI





Platform
Vehicle + EV

Functions
Autonomous Driving

Vehicle Platform - EV

TORRES EVT
(O100)

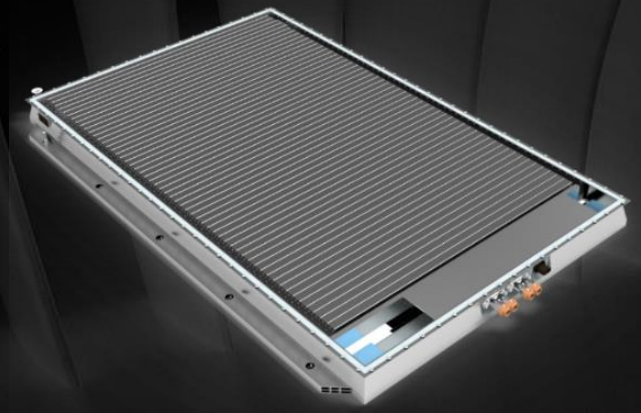
F100

TORRES EVX
(U100)

KR10

Vehicle Platform – HV Battery

Present EV Battery



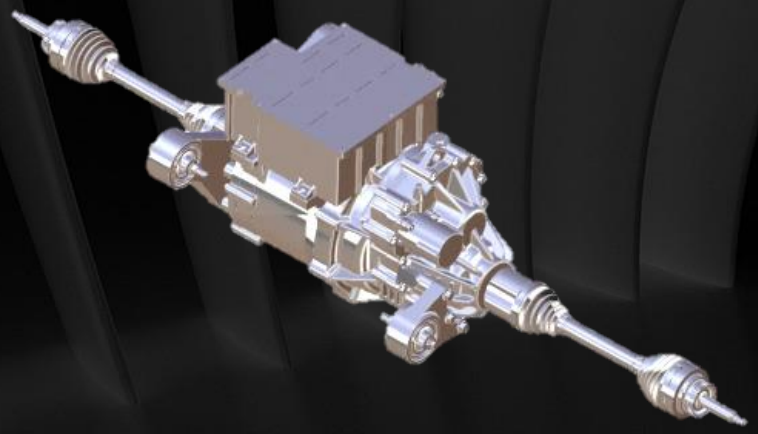
Cell To Pack 기술 국내최초적용

Future EV Battery

Cell To Body

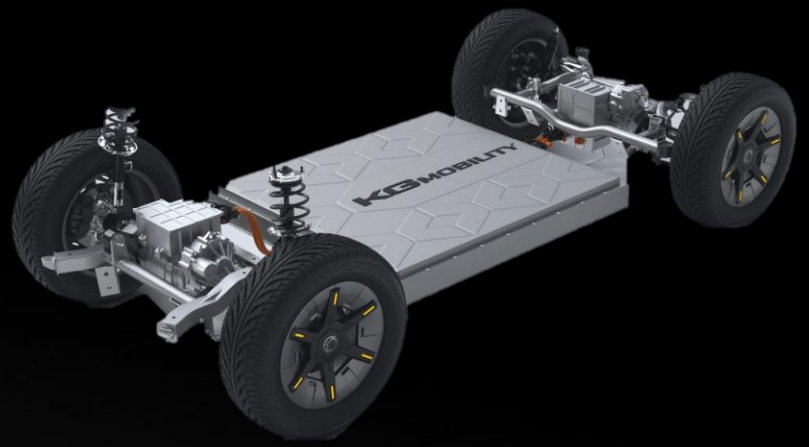
Vehicle Platform – EPT

Present EPT System



3in1 EPT

Future EPT Platform

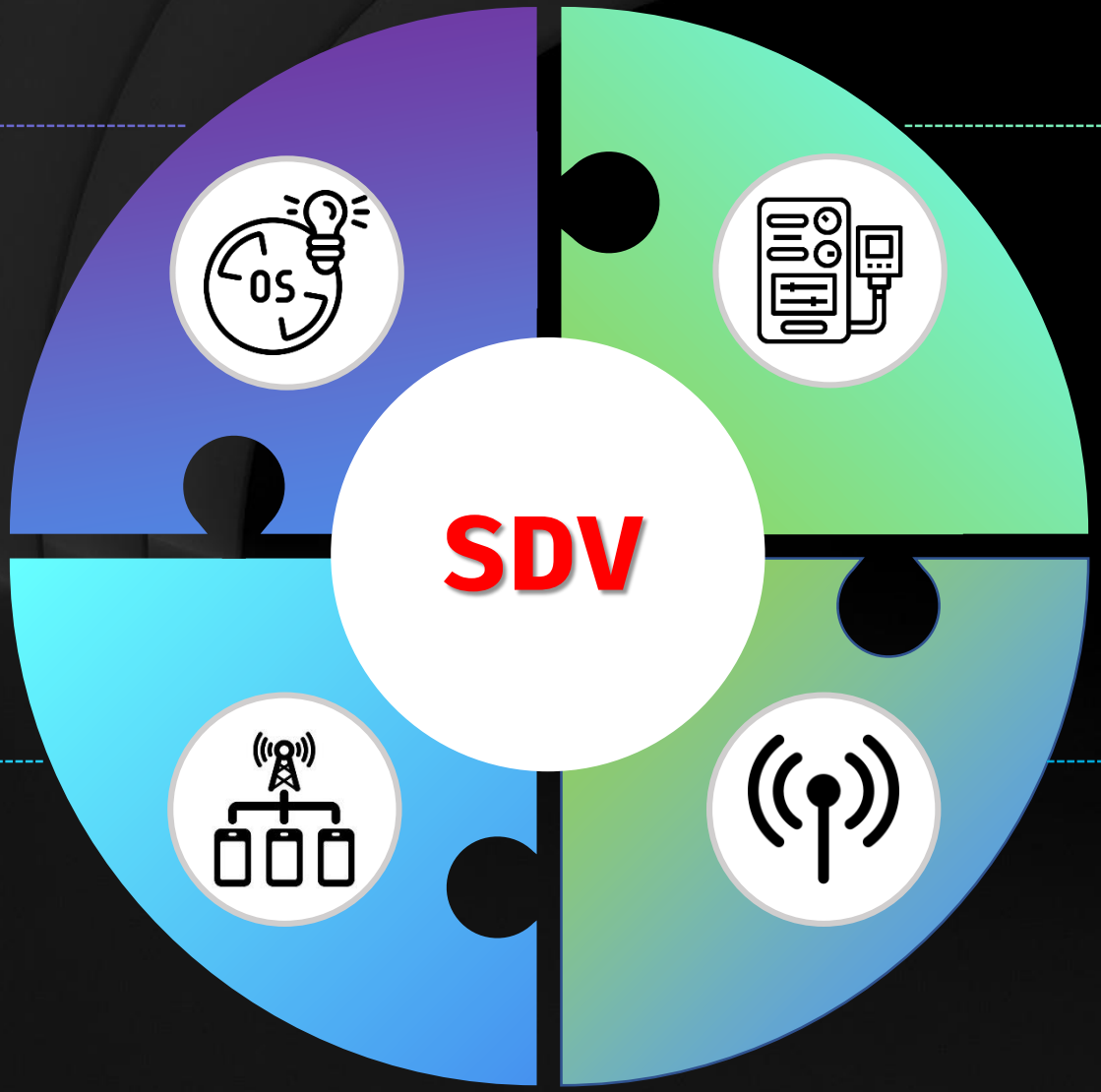


AWD 특화 EPT

Software Defined Vehicle

통합 OS

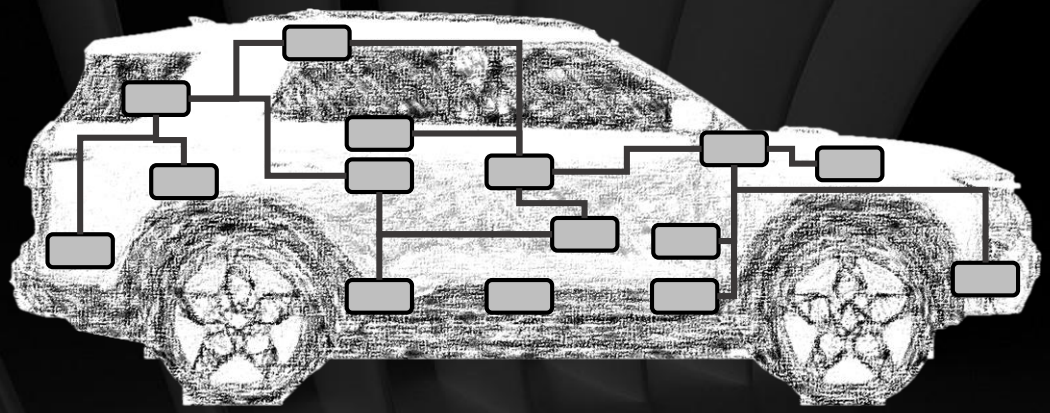
HPCU
(고성능 통합제어기)

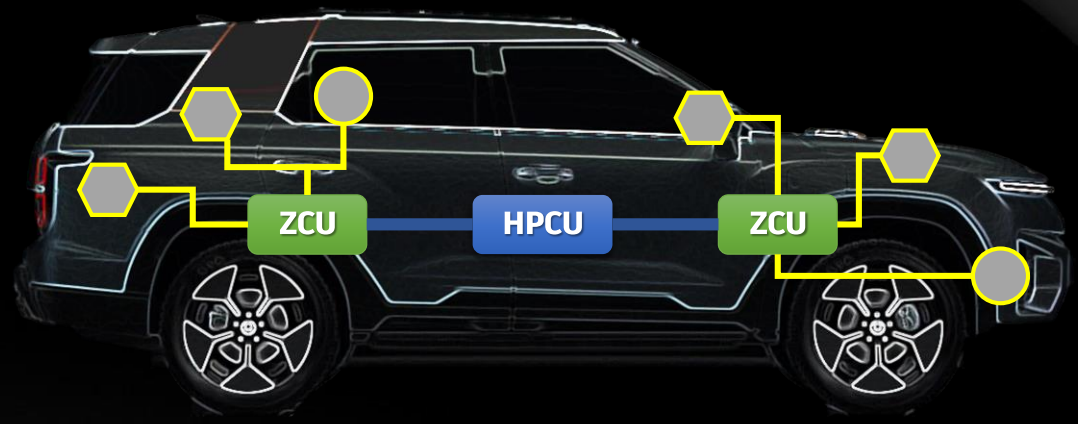


고속통신

OTA
(Over The Air)

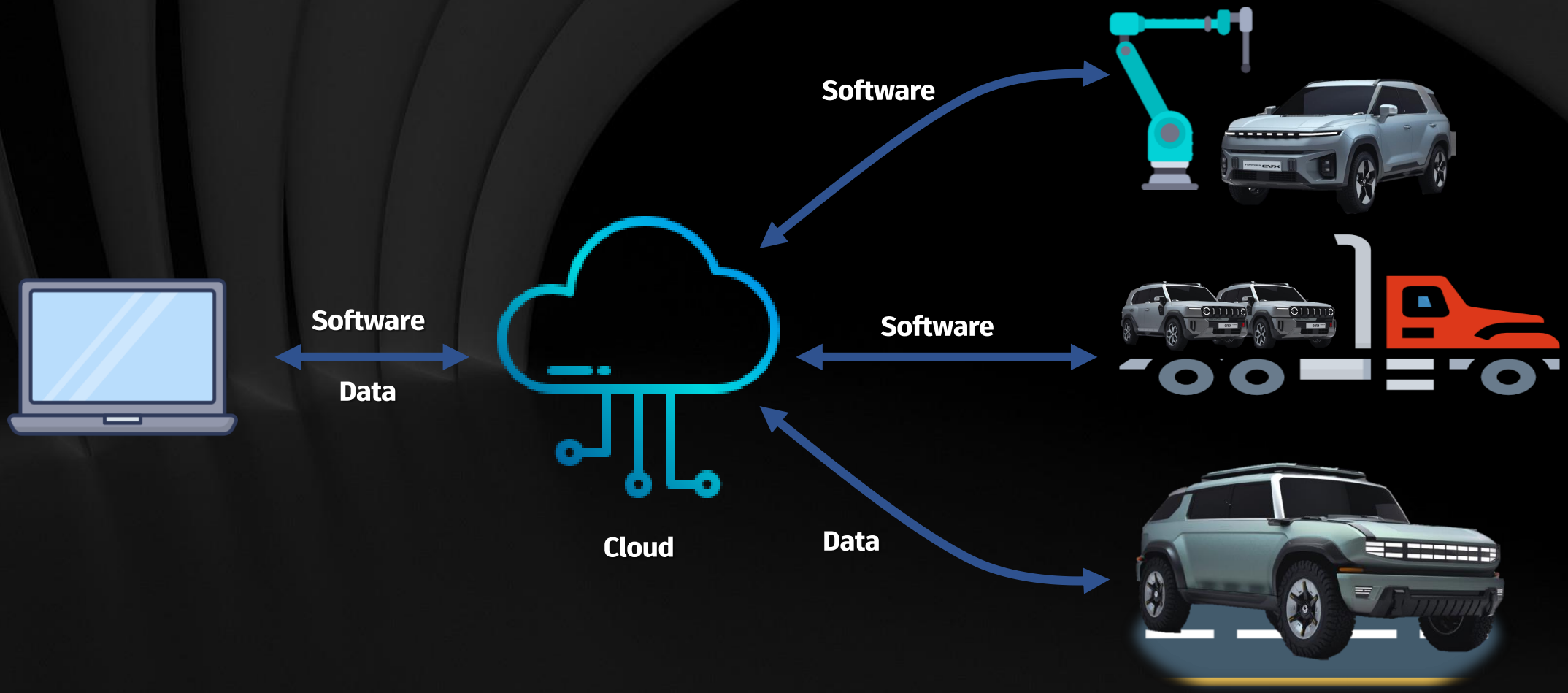
Software Defined Vehicle : HPCU(고성능 통합 제어기)





Software Defined Vehicle : 개방형 통합OS

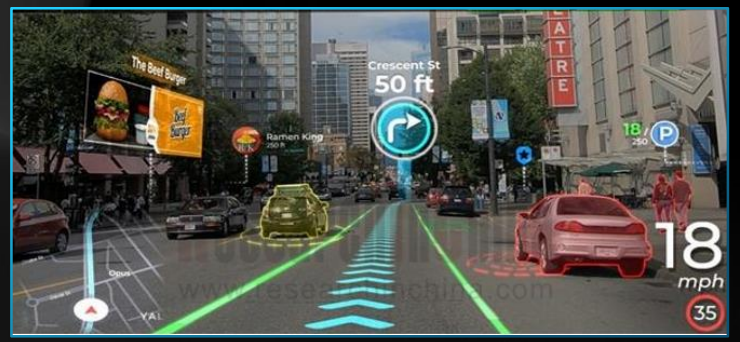
Software Defined Vehicle : Over The Air



Software Defined Vehicle
: AR HUD + Wide Display + Digital Key

Wide Display + Rear Seat Display

AR HUD



Digital Key

Autonomous Driving

Level 2+

주행 보조 시스템

Level 3

자율주행 시스템

Level 4

로보 택시

Level 4+

자동 주차/충전

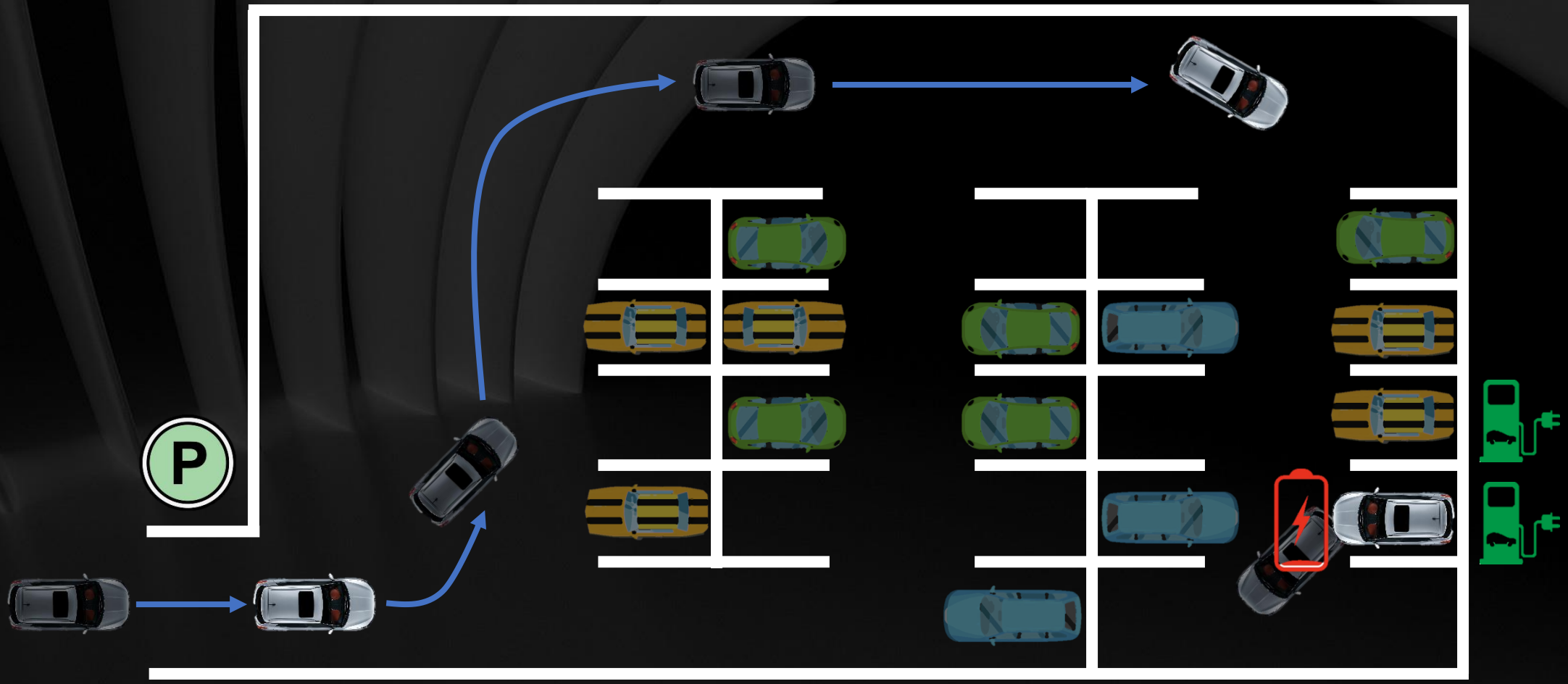
Autonomous Driving : Level 4 로보택시

고객 호출

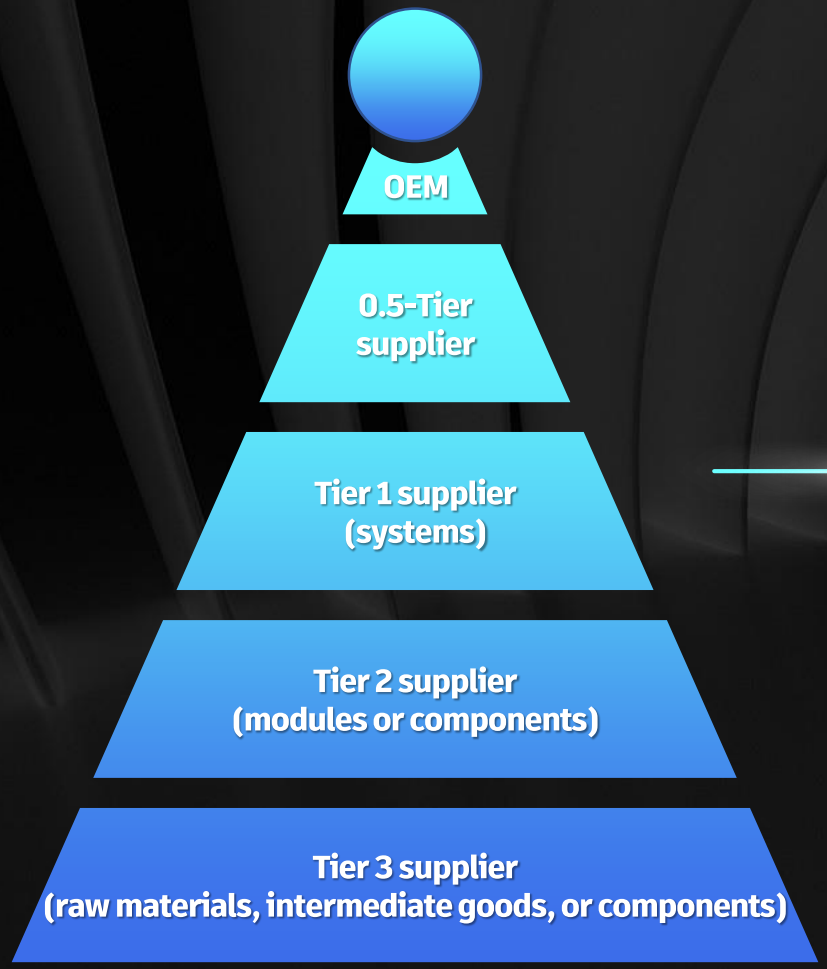
차량 도착

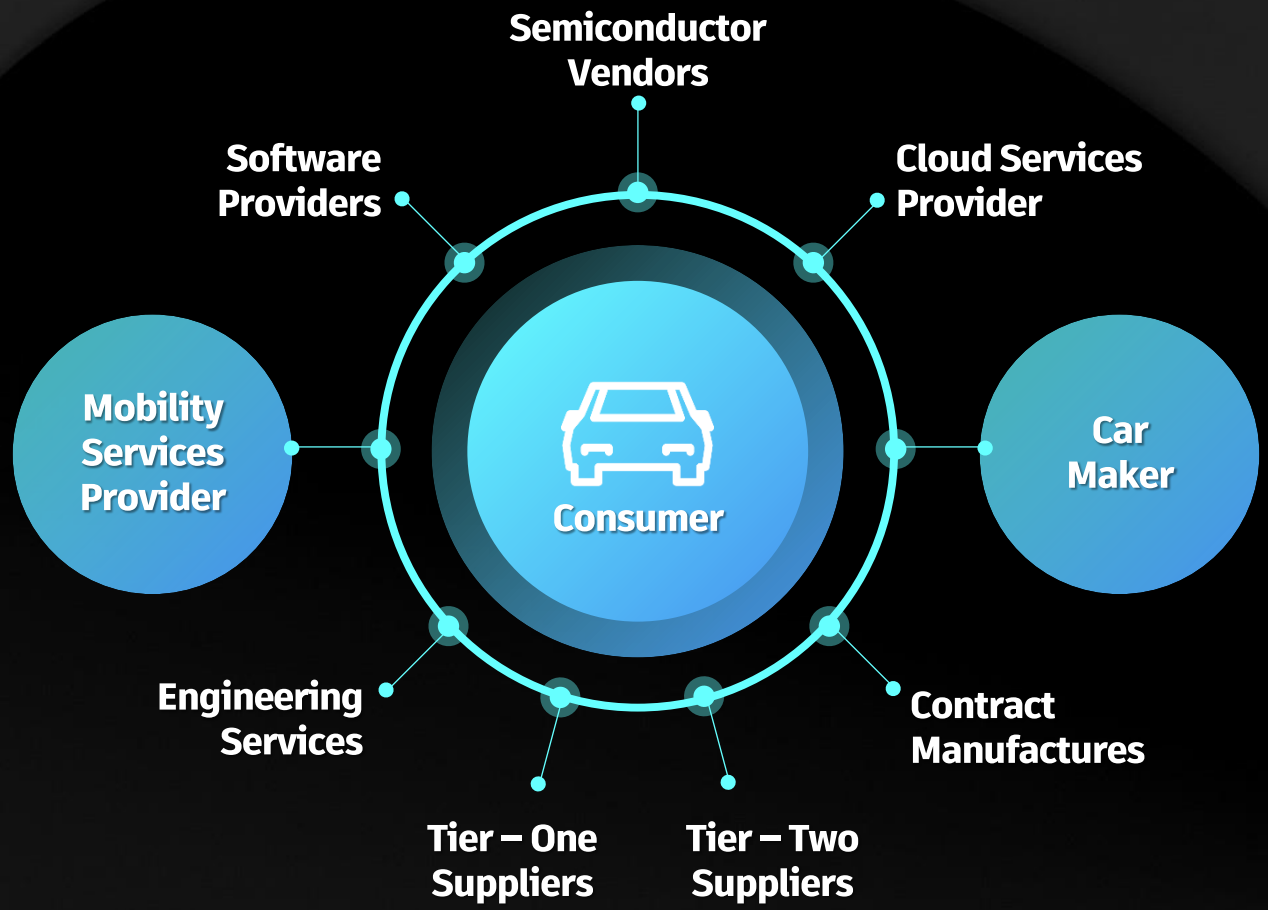
목적지 도착

Autonomous Driving : Level 4 + 자동 주차/충전

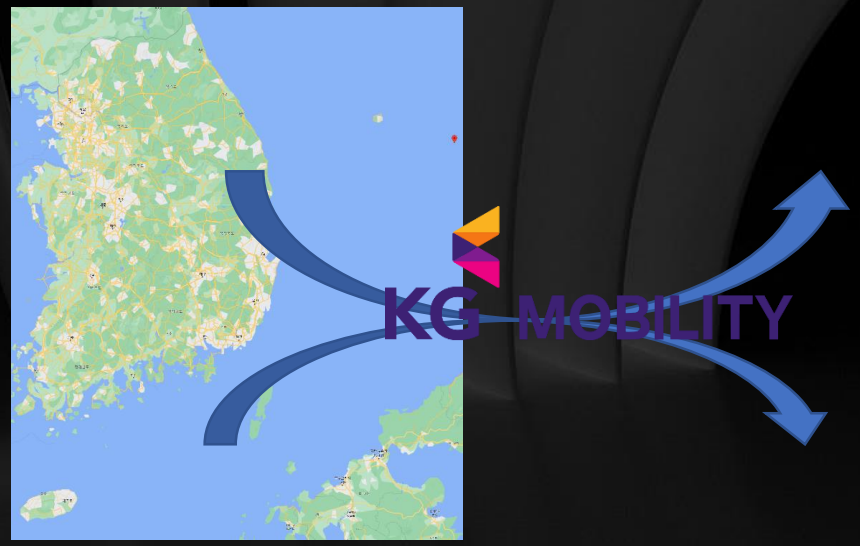


KGM Plan : Partnership





New Business Chance



KG MOBILITY
Go. Different