



AUTO DRIVING

We, TongRo Image Stock, Since Commence with Producing digital Image Slide / transparency business in 1992, have been building outstanding success in distribut-

DRIVING SYSTEM

Corporate Overview

From habit to economic

Automotive-IoT Device & Data hub provider

jastecM



Overview

Company

Identity

Vision

Market Analysis

ICT Integrated B/M

01

Chapter

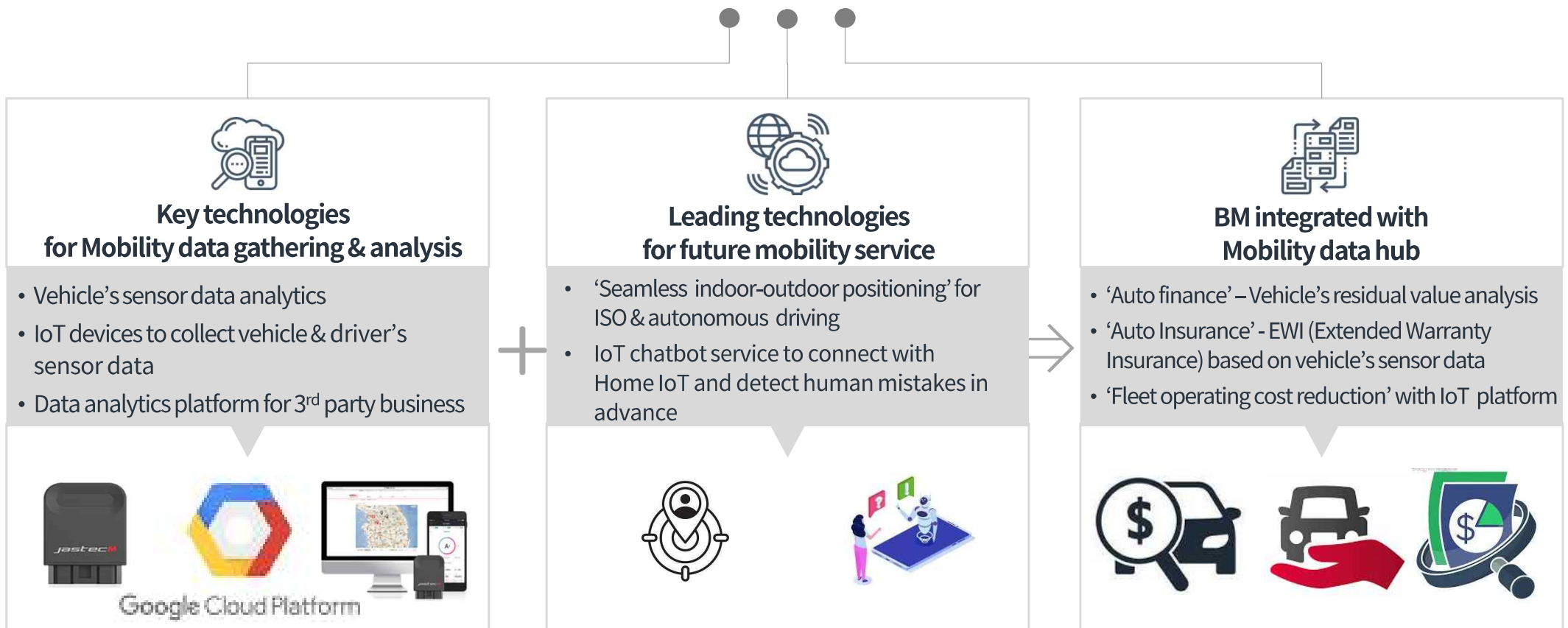
1.1 Company

JastecM Co., Ltd.

CEO	Yongbeom Baek
Founded	July 6, 2016
Capital	USD 680,000 (Current) *Fundraising in Apr. 2019 (USD 1.8M) & Jan.2021 (USD 450K) / Series A – USD 2.6M in total
H.Q	PDC C-402, 242, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
US Branch	JastecM USA, LLC 3003 N. First St., Suite 336, San Jose, CA 95134
Websites	Corporate : jastecm.com / Global : viewcar.net



A Leading Company of Smart Mobility Data Hub



ICT integrated Sensor Data Hub for Future Mobility Environment

1.3 Vision

Increasing demands of Smart Mobility: More precise and Faster

Digital-age Transportation



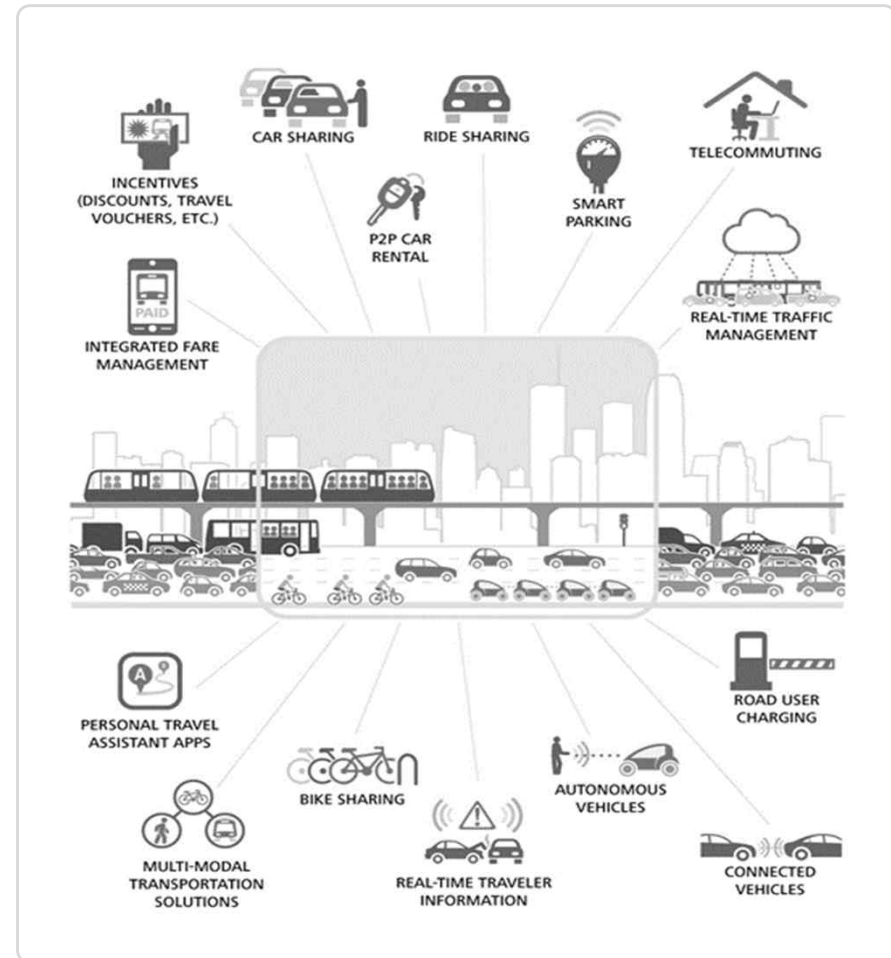
Big Data based on Cloud

- ✓ Every Device
- ✓ Every Vehicle
- ✓ Every Manufacture

Testbed for various technologies & tools
Battle in the gridlock

Present

Key Technology & Convergence Data hub are required



1.4 Market Analysis

- A data hub is a **collection of data from multiple sources** organized for distribution and sharing.
- Growing demands for Smart City (i.e. Smart transportation)



스마트시티 데이터 플랫폼을 활용한 신속한 COVID-19 대응사례

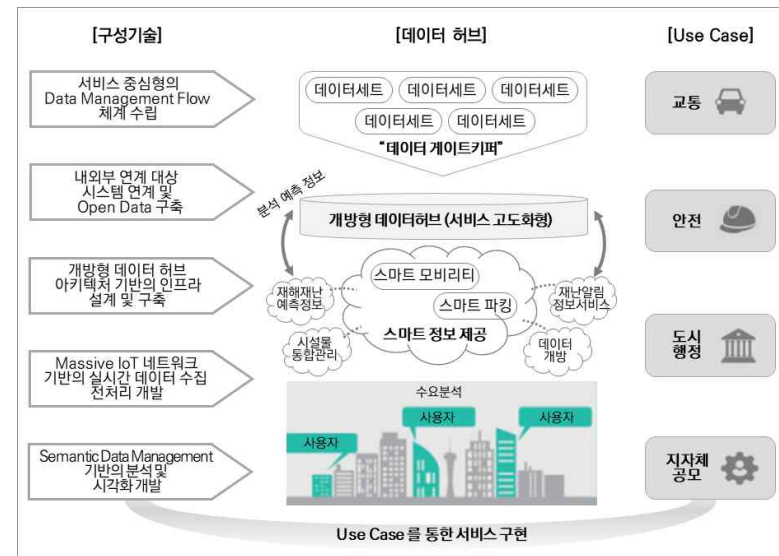
HOME > 뉴스 > 경제/교육

“국내 스마트시티 시장, 코로나19로 위기와 기회 동시 직면”

김재호 IoT 스마트시티 플랫폼(PCI001) 회장, KETI 자율지능IoT연구센터 센터장

강석오 기자 | 승인 2020.05.13 13:59 | 댓글 0

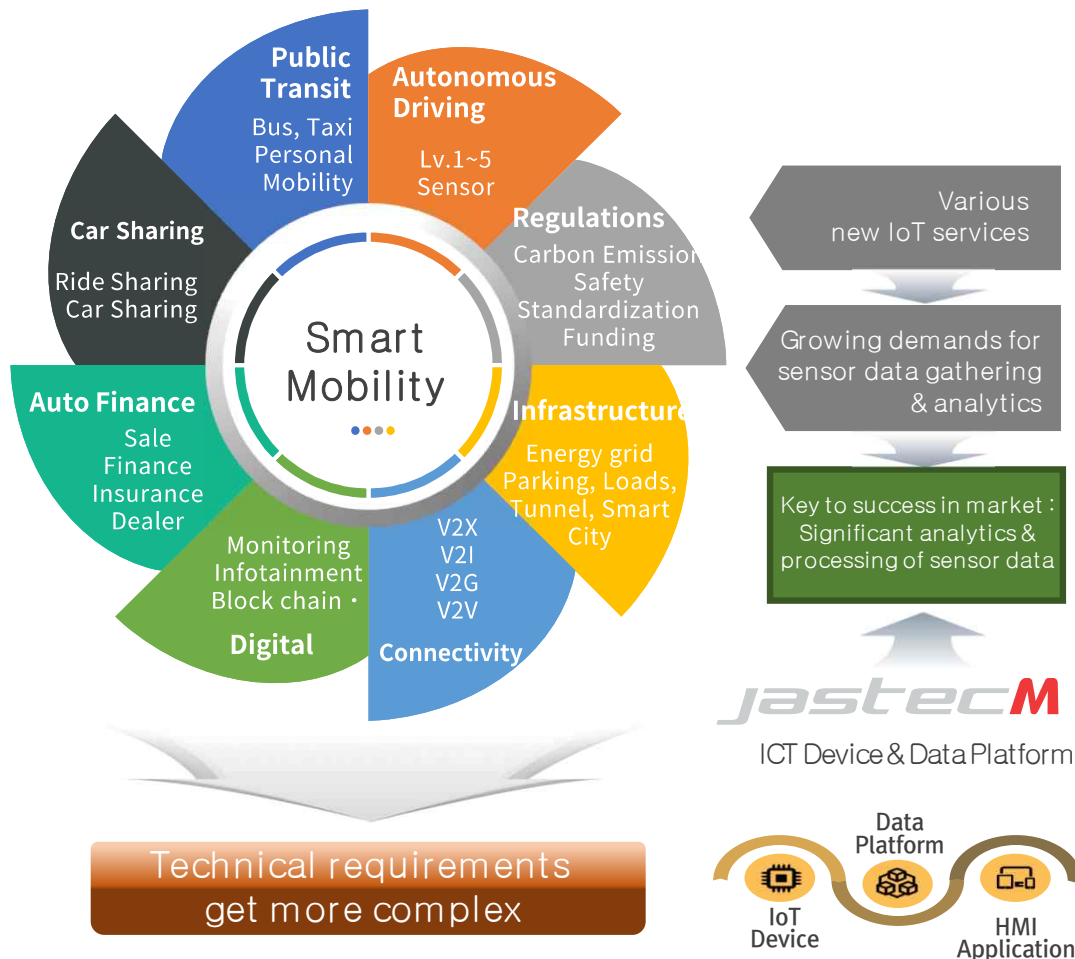
한국IDC ‘국내 스마트시티 시장 트렌드 보고서’ 발간
 국내 스마트시티, 공급자에서 민간 기업 및 시민 주도로 사업 이니셔티브 무게중심 이동
 스마트시티 재검토 이뤄지며 포스트 코로나 시대 도시 회복탄력성 강조



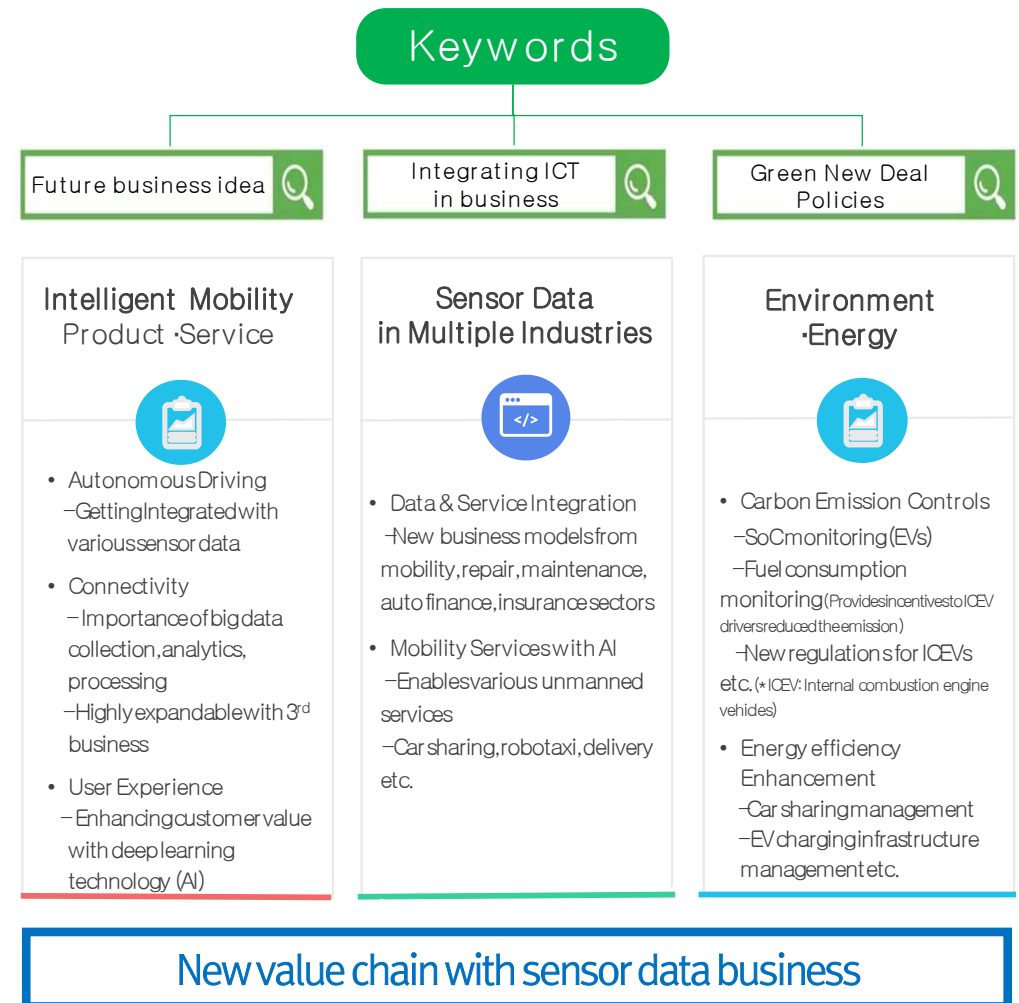
※ 출처: 국토부 데이터기반스마트시티연구개발 보도자료

1.4 Market Analysis

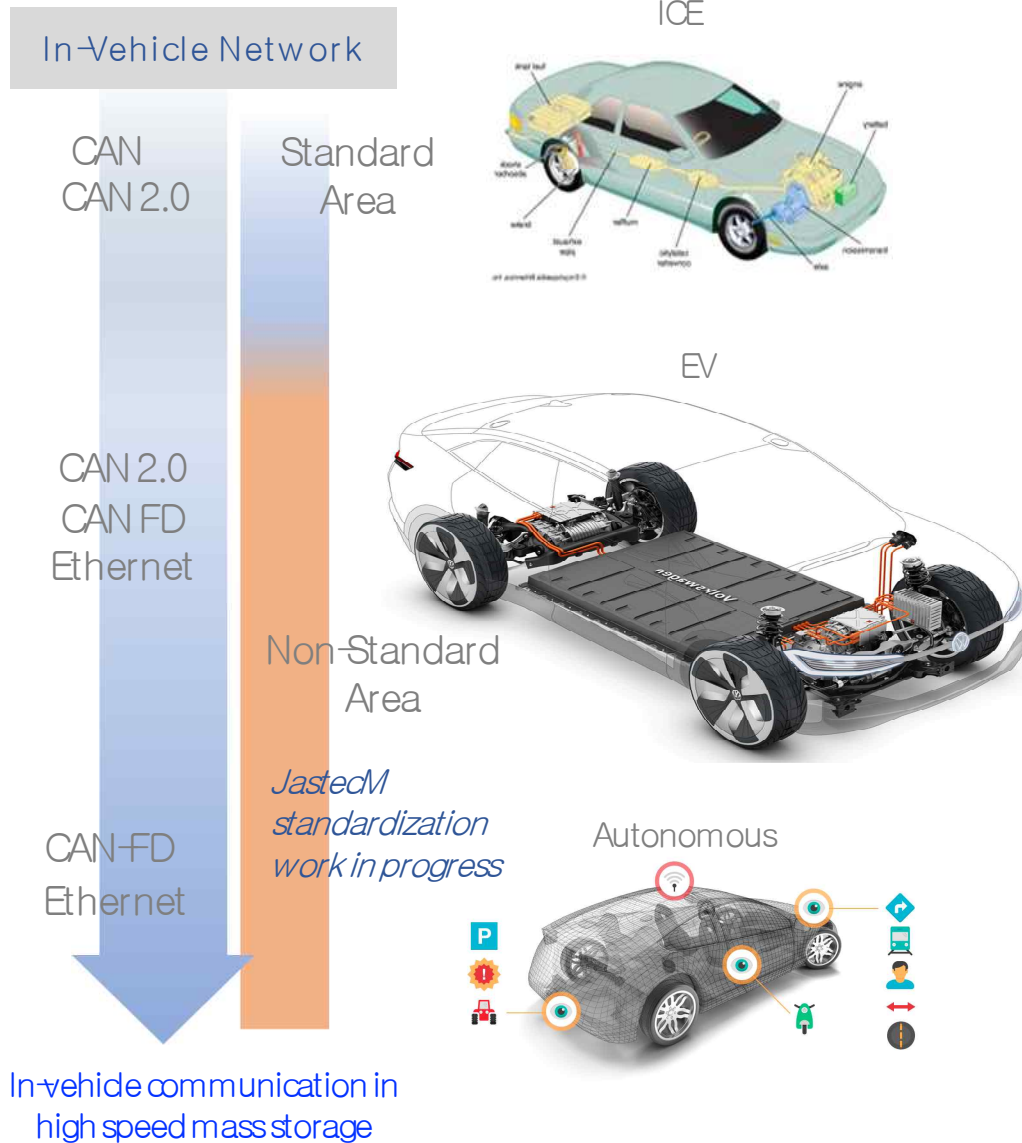
Expanding use cases for Smart Mobility



Keywords in mobility market



1.5 ICT Integrated B/M Overview



ICT Device	Service	Business
Sensor and satellite data	<ul style="list-style-type: none"> FMSAPI service data hub Driving habit, breakdown, maintenance 	<ul style="list-style-type: none"> Fuel & CO2 monitoring Insurance (UBI · EMI) Waste pickup vehicle monitoring system

Tech : Sensor fusion based Seamless in high-def

+	Battery monitoring in safety aspect	<ul style="list-style-type: none"> Charging status Fire outbreak API service available 	<ul style="list-style-type: none"> Used EV battery residual value V2G market
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EV battery diagnostic

**Jastec (shareholder company) holds over 80% market share across 1,760 vehicle inspection centers nationwide*

+	Autonomous Fallback	<ul style="list-style-type: none"> Mobility management service Autonomous driving management service 	<p>NEXT autonomous driving tech-based B/M</p>
	Perception sensors (ie, ADAS, LiDAR, Radar)		

History

- Joint development of a sustainable traffic management system utilizing a New safety-economy driving model based on Big Data with the Korea Transportation Safety Authority's Automobile Safety Research Institute (2016-2020)

KOTEMS(Korea Transport Emission Management System)는 교통부문에서 발생하는 온실가스를 체계적으로 관리하기 위한 시스템입니다.

온실가스 배출정보 통계

- 교통 온실가스 산정 관리 : Tire1 & 2 & 3
- 국내/외 에너지소비량/온실가스 배출 정보 제공
- 국내 교통부문 (도로, 철도, 항공, 해운) 연료 및 에너지사용량/온실가스 정보 제공
- 도로 부문 특성을 반영한 온실가스 배출량 산정

목표관리 지원 시스템

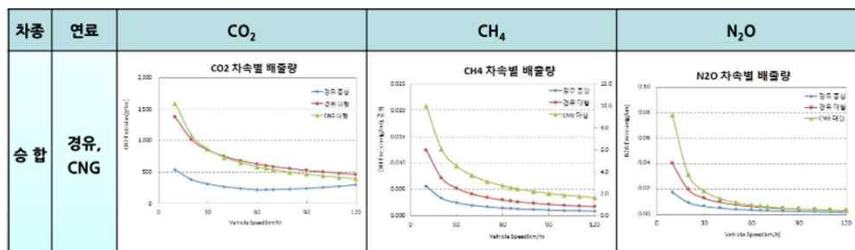
- 교통부문 기업 온실가스 지원 : NA & VA
- 목표관리제 관련 업무 지원 (이행실적, 감축목표 관리 등)
- 자발적 온실가스-에너지 목표관리제 참여업체 업무지원

감축효과 평가 시스템

- 교통 정책 및 기술 평가
- 온실가스 절감형 교통체계 구축을 위한 추진과제에 대한 온실가스 저감효과 평가
- 정책 및 기술 평가 (전기차/하이브리드 보급, 에코드라이브 등)

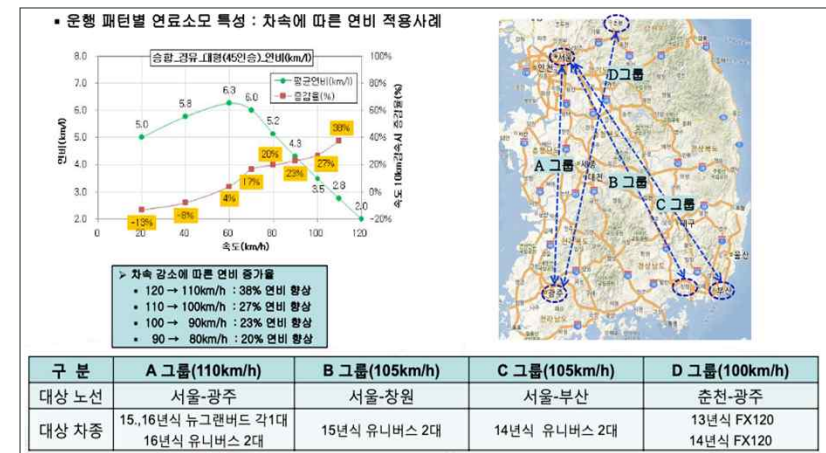
※ KOTEMS 접속 주소 : www.kotems.or.kr

- Yearly trends and GH Gas Emissions by type for 230 cities, counties, and districts, and Establishing Reduction Standards
- Road traffic monitoring system DIAS
- Development of Algorithms for Estimating Greenhouse Gas and Nitrogen Compound Emissions Based on Driving Patterns and Vehicle Speed (km/h)



Effect

- Quantifying Carbon Emission Reductions and Fuel Cost Savings Through the Application of Safe Driving Support Devices



- Creating Practical Effects in Reducing Automobile Carbon Emissions Through Optimal Fuel Efficiency Support

Cost Savings of Up to 23 Million KRW for Transportation Companies (Buses and Trucks) Based on a Fleet of 30 Vehicles

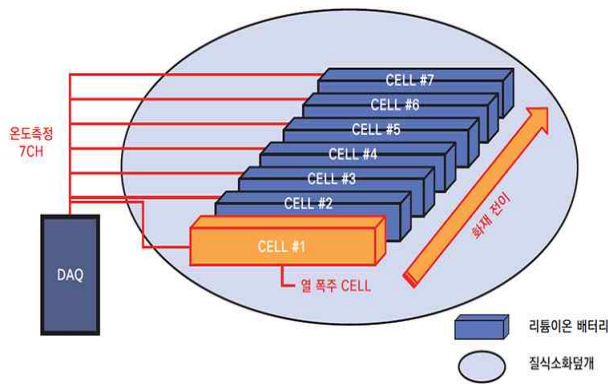
상위 5인의 연비 개선율과 연료비 절약(1인 최대 약 77만원)

향상을 순위	운전자	개선율 (%)	적용전 (km/L)	적용후 (km/L)	향상율	비고
1	이**	18.83	4.46	5.30	768천원	연비개선 1위 운전자(18.8% 개선) 4.46km/L → 5.30km/L 1달 연료비 768천원/대 절약 30대 기준 최대 23백만원/월 절약
2	신**	15.01	4.97	5.71	331천원	
3	이**	7.13	4.77	5.11	301천원	
4	조**	7.12	4.71	5.04	292천원	
5	민**	7.07	4.81	5.15	237천원	

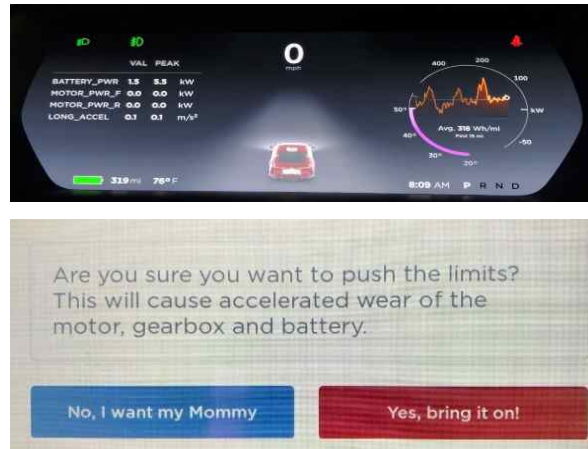


[뉴스데스크] 사고 위험 1/10로 확 낮추는 '연비운전' 이렇게!

EV Battery inspection and Evaluation



Main causes of EV battery fires



Tesla Ludicrous+ warning



LGENSOL B-Lifecare battery evaluation

Increased data required for monitoring

- EV fires have increased by an average of 41.4% annually over the past four years
- Electricity consumption varies by up to 250% depending on driving habits (Hyundai Motor EV Usage White Paper)
- Growing demand for services to manage vehicle safety while extending battery life
- Insufficient standards for evaluating and certifying residual value of used car batteries

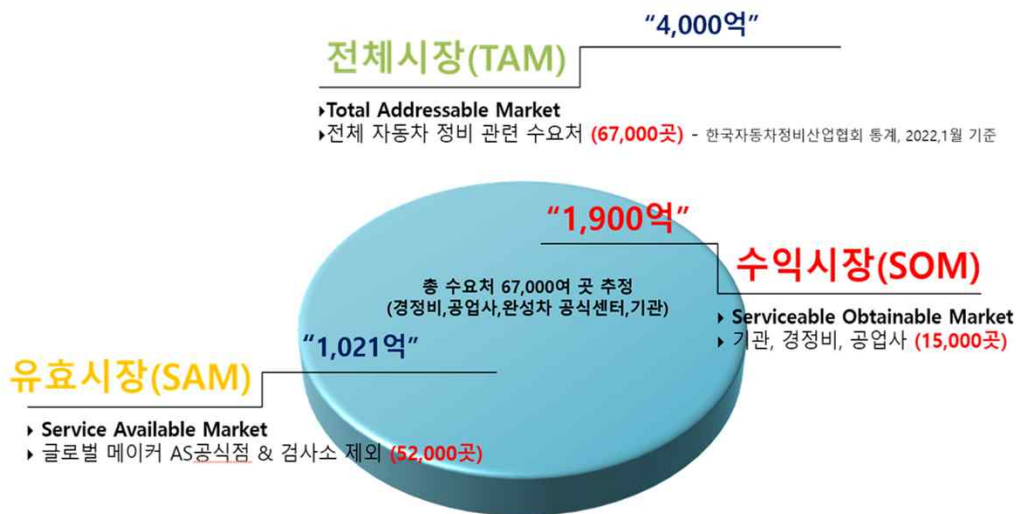
Changes in Battery Inspection Methods and Standards

- Shift from in-person vehicle inspections to continuous diagnostics ⇒ IoT products
- AI based big data analysis and processing
- Precision and accuracy in both inspection and data aspects ⇒ A consortium between R&D and manufactures
- Standardization and certification process

1.5 ICT Integrated B/M EV battery residual value evaluation system

ICT integrated data driven EV battery lifecycle monitoring and residual value evaluation service

- The global electric vehicle market grew by 89% in 2021, reaching a scale of 6.08 million units. It is expected to maintain high growth with an average annual growth rate of 30%
- In South Korea, the sales of ultralight electric vehicles reached 2,129 units in 2021, marking a 30.9% increase compared to the previous year
 - In Korea, the sales of ultralight electric vehicles reached 2,129 units in 2021, marking a 30.9% increase compared to the previous year
- The domestic market for personal and asset tracking and control services has seen the highest revenue growth rate, reaching a market size of 864.4 billion KRW
 - The connected car service market is expected to grow at a CAGR of 27.7% by 2025
- The used electric vehicle market is expanding as consumers have more choices based on the residual value of electric vehicles
- The electric vehicle battery data market is leveraging battery usage history to create indicators for battery life and value, enhancing market utilization



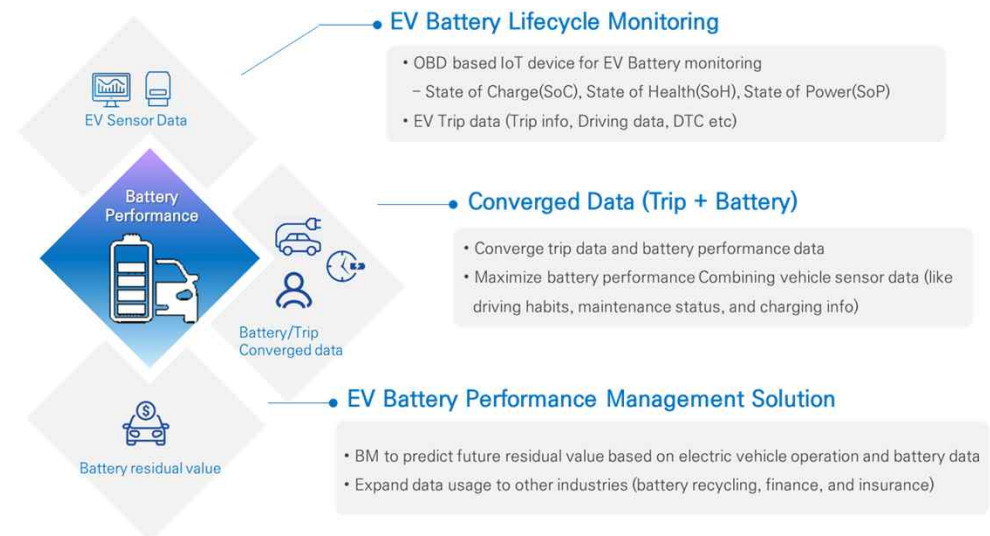
Market

- EV universal diagnostic scanner market growing
- EV battery monitoring feature in need
- EV related Business model
- In-Vehicle high speed IoT device in need

Features

Technical aspects

EV Main diagnostic items	In-vehicle high speed communication	Driving data processing, analyzing Data share (Cloud platform)
EV Battery safety	Accuracy, precision	



Current Project (City of Bucheon, Korea)

Public waste pickup service

Waste collected from 36 districts

10 waste pickup agencies on service
(195 special purpose trucks)

Different pickup schedule per waste type



Requirements from Bucheon city

“ We want to know if the truck really went to the pickup area. ”

“ Has fleet cost been calculated properly? ”




“ Can we see the accurate workload & work hours of workers? ”

Monitoring system is required for waste collection agencies
(City of Bucheon)

Results

City budget : 13M USD / 2020

Cut truck deploy numbers → Cutting annual city budget

 <p>40~55% ↓</p> <p>Proper annual waste pickup cost</p> <ul style="list-style-type: none"> * Previous fuel cost : 1.3M USD * Analyzed fuel cost : 0.6M USD (Saved 0.7M USD) 	 <p>24.7% ↓</p> <p>Cut truck deploy numbers</p> <ul style="list-style-type: none"> * Previous : 109 trucks * Current : 79.6 trucks (Reduced 27.1 vehicles) 	 <p>27% ↓</p> <p>Cut manpower</p> <ul style="list-style-type: none"> * Previous: 329 persons * Current: 239 persons (Reduced 90 people)
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Next Plan

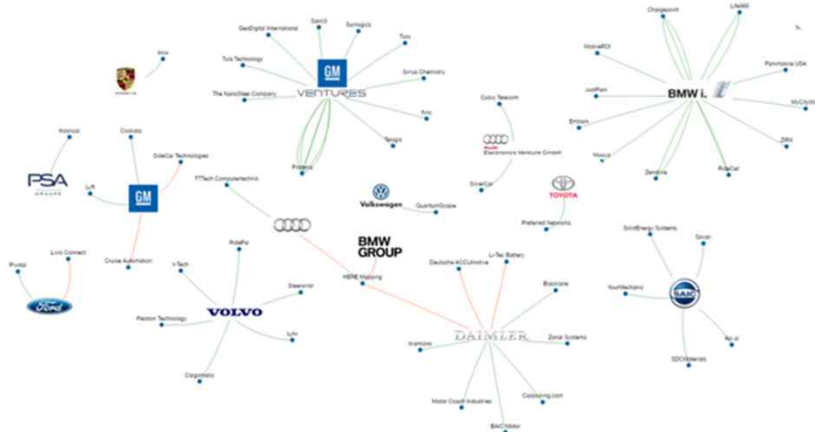
- ✓ Market testing in Korea
 - Based on FMS* model → Free devices & Having incentive as much as the cost saved instead.
- ✓ Gyeonggi-do waste management council
 - Demo-project in 2021~22 Smart City Innovation R&D 『City of Siheung』
 - Nominated as outstanding achievement from MOLIT in 2023
 - City of Seongnam, Suwon, Gimpo scheduled in 2024
- ✓ Sonrai System* project scheduled (67K trucks)
 - * Sonrai System : US waste collection agency

Why is it important in market?

- ✓ Core technology of Autonomous driving, drone or MaaS etc.
- ✓ Secures location data regardless of network errors (GPS, Cellular)
- ✓ Continuous indoor ↔ outdoor positioning
- ✓ Enhanced location data accuracy by sensor fusion

Exclusive by Automakers

- ✓ OEMs develop & own most of positioning technologies
- ✓ Aggressive investment or merge with related companies



New mobility services are coming up

- ✓ However, related standardization is not prepared for the new services (protocol, data set etc.)

A Game Changer in OEM centered market with Market Diversification

- 1 ISO standardization based on JastecM's technologies
- 2 Variable product types per target market



API



S/W Module



Semiconductor

Status of Work Items



- **PWI 6029-1**
 - **Title**
 - ITS – System requirements and interfaces for seamless positioning between indoor & outdoor based on the personal ITS station – Part 1: General information and use cases
 - **Leader: Korea (JastecM & ETRI)**
 - **Work Scope :**
 - This standard specifies general information and use-cases for seamless positioning between indoor-outdoor in Personal-ITS Stations by defining the technical factors for seamless positioning between indoor & outdoor.
 - Part 1: General information and use case definition (TS track)
 - Part 2: Concept of data fusion and common message format
 - Part 3: Secured and trusted sensor interfaces
 - Part 4: Accuracy and reliability of positioning information
 - **Members agreed to participate**
 - China, Germany, Japan, New Zealand, Malaysia, Belgium, and Korea
 - **Schedules to TS**
 - PWI proposed : Oct. 2020
 - **WG17 Resolutions**
 - WG17 resolves to change the name of PWI 6029-1 from "ITS – System requirements and interfaces for seamless positioning between indoor & outdoor based on the personal ITS station" to "ITS – Seamless positioning for multimodal transportation in ITS stations – Part 1: General information and use case definition"
 - WG17 resolves to propose PWI 6029-1 be circulated for NP ballot (for TS track).

ISO/TC204 WG17 – ZOOM Meeting, Spring 2021

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ISO Standardization on progress by JastecM

Market Analysis

- ✓ Essential technology for high accuracy localization

- * Global market is expected to reach USD 19,800 Million by 2030
- * Global sales growth : 48.5%
- * Domestic sales growth : 23.8%

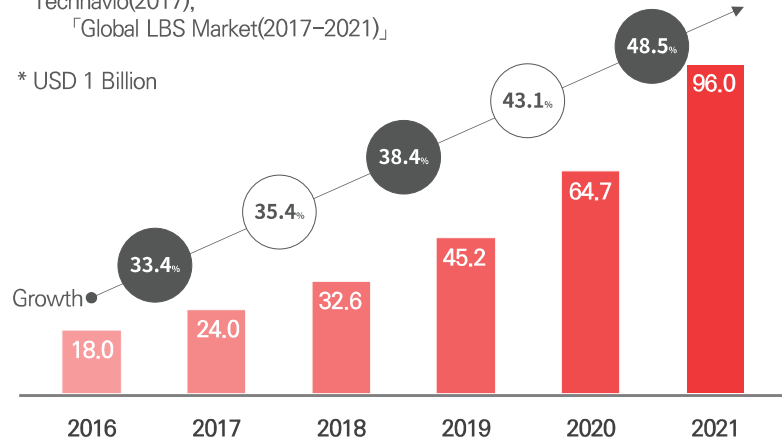
- ✓ Market Volume of Sensor Fusion *CAGR: Compound Annual Growth Rate

- * CAGR* of Automotive sensor fusion market : 6.9%
- * USD 2.81 Billion in 2017 → Expected to be worth USD 4.19 Billion by 2025

Sales Volume of Global LBS Market (2016-2021)

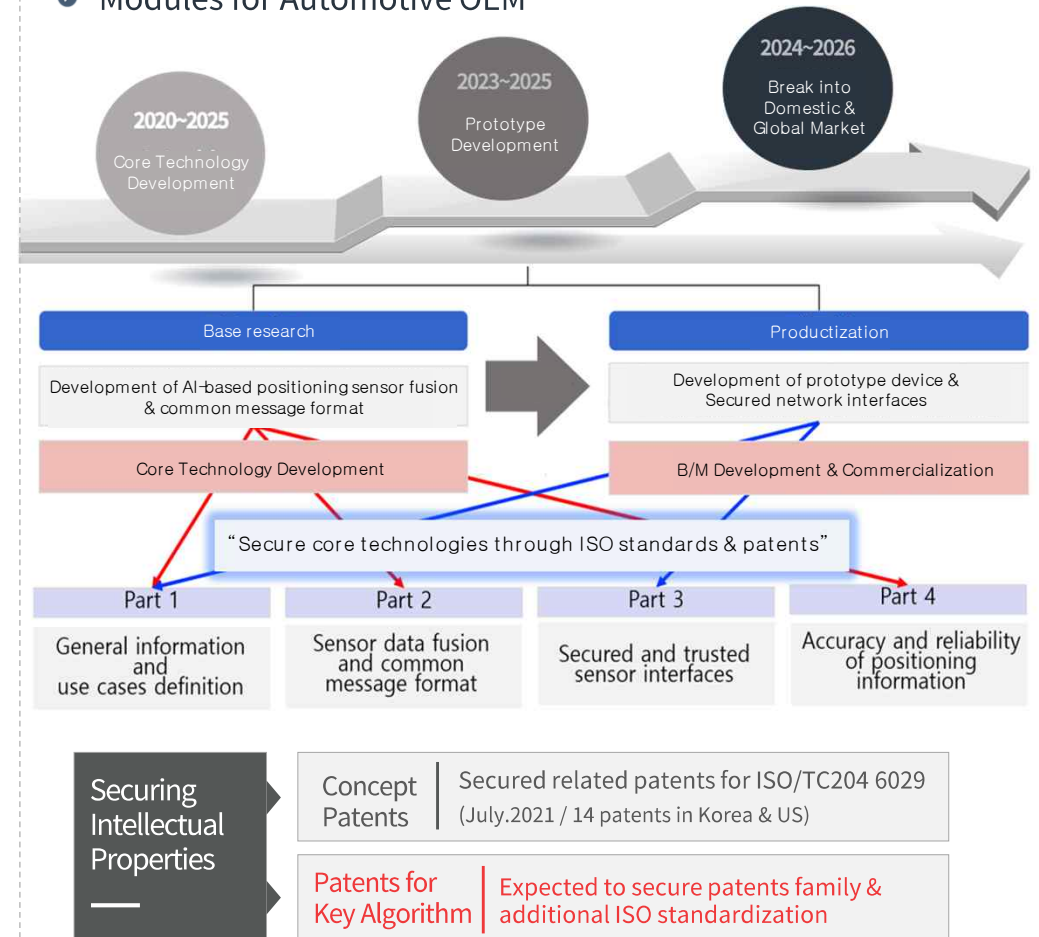
* Technavio(2017), 「Global LBS Market(2017-2021)」

* USD 1 Billion



Business strategy

- ✓ APIs for smart devices
- ✓ Devices for personal mobilities
- ✓ Modules for Automotive OEM





Products

Platform

Key features

NA Model

Global Models

von-P series

Service features

ViewCAR™ Web

Mobile service

02

Chapter

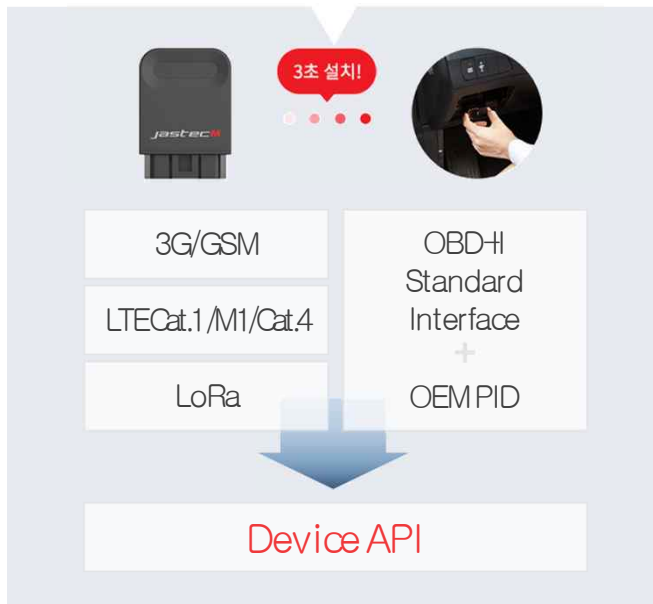
2.1 Platform

JastecM already set up **API service structure** from device to platform.



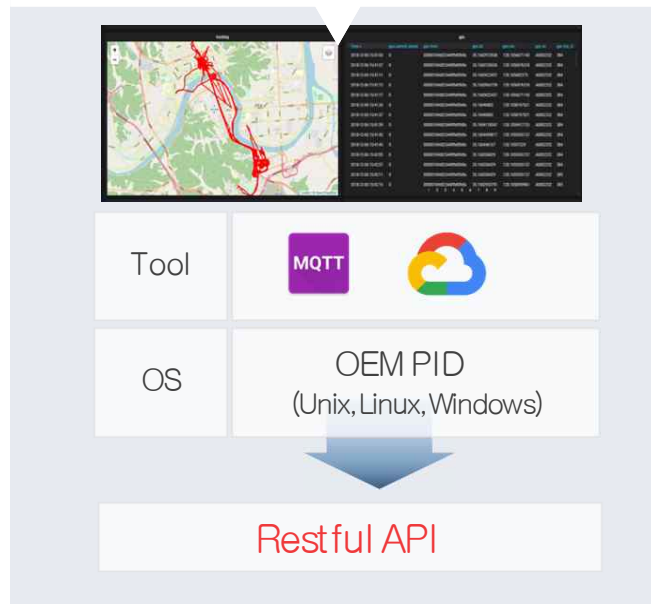
ICT Device

OBD II standard protocol based vehicle data gathering technology



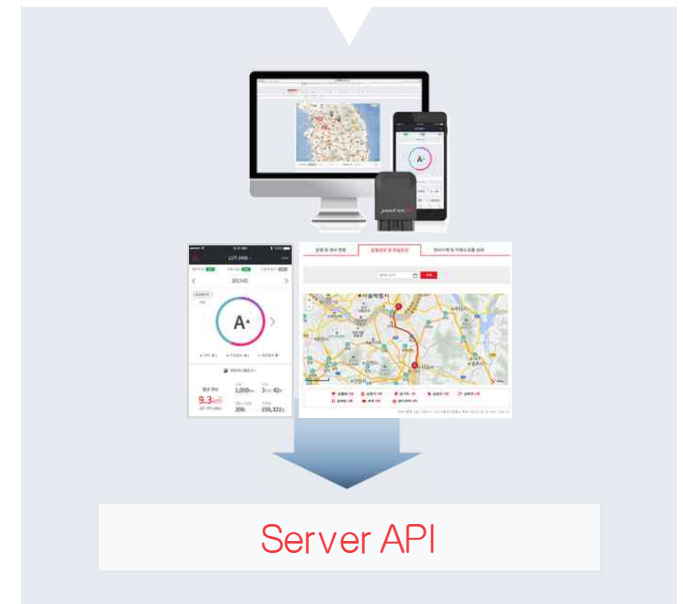
Vehicle Platform

Converting various vehicle sensor data gathered from OBD device as per platform specification



Presentation [ViewCAR Service]

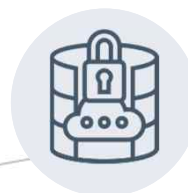
Service level interface in app/web based on telemetry data platform



2.2 Key Features

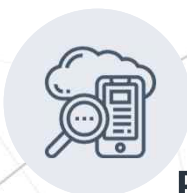
- ✓ Wi-Fi hotspot connection
- ✓ Network out of coverage solution
- ✓ Secured, Device specific FOTA

Robust Network



Secured Device

von-
Series



Reliable Metrics

- ✓ Precise GPS, Accurate Vehicle Metric
- ✓ Various Wake up Scenario
- ✓ Remedy for Network out of coverage



Customizable Configuration

- ✓ External Interfaces for Other Devices
- ✓ Cooperative with backup platform
- ✓ Script support (Radio Packet, Customization, Simulation, Provisioning)





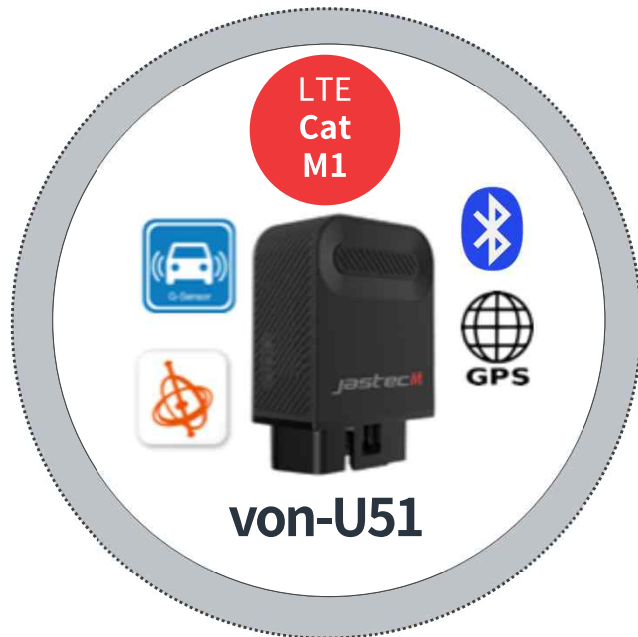
von-S41

von-U41
(2019.05 출시)



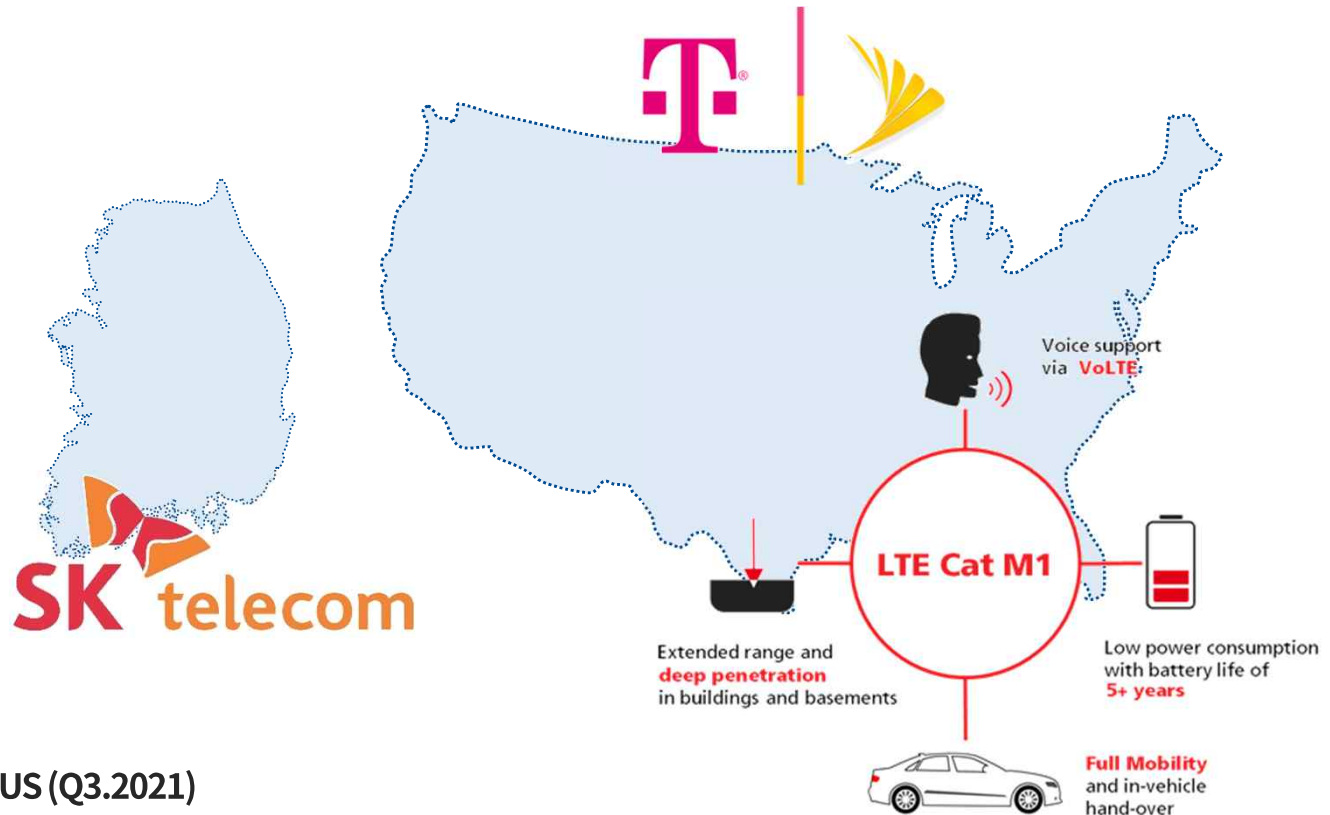
- ✓ T-Mobile network LTE Cat.1 device for U.S. market
- ✓ JastecM and Motus planned to launch a **vehicle reimbursement service** for **Coca Cola, Papa John's Pizza and CVS commercial vehicle drivers (2020)** Delayed due to COVID-19, market re-entry in 2023

2.4 Global Models LTE Cat. M1 Low Price Device (Global roaming)



von-S51

Certified in Korea (05.2021) & To be certified in US (Q3.2021)



- ✓ LTE Cat.M1 (**Global Band**) device to find more global business opportunity
- ✓ Price competitive with **low data usage** of Cat.M1

※ **Target price: 50 USD (35% cheaper than competitors' devices, 30% lower than LTE Cat.1's data usage cost)**

2.4 Global models LTE Cat. M1 Japanese device

NTT
docomo

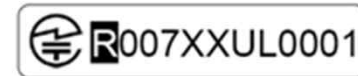
SoftBank



von-J51

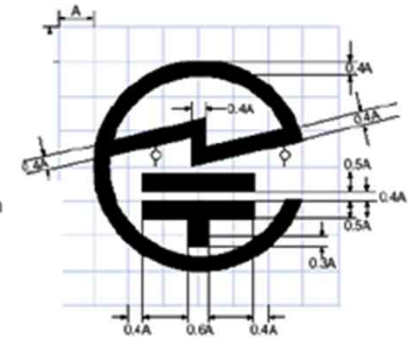
(2022.12 Certified / 2023. 6. 15 Launched)

Format of Certification Number



007 : Approval Body ID Number of ul japan
XX : 2 digits of Radio Equipment type
UL : 2 digits of Designated by UL
0001 : 4 digits of Type Approval serial

Certification Mark

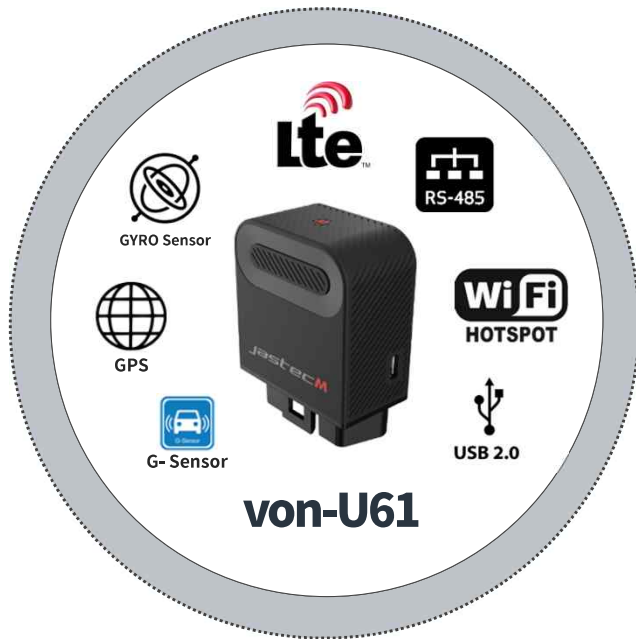


ISUZU



- ✓ Cat.M1 Japanese device for local service
- ✓ Device for OBD based inspection (2024. 10 scheduled)
- ✓ Collaborate with Japanese local partner (Inter Support) business network

2.4 Global models LTE Cat. 4 Connected Car device



von-U61

(Certified & launched 2021.5)



- ✓ von-U61 features various connected car interfaces
- ✓ Designed to support various connected devices such as ELD*, ADAS, AI speaker, dashcam etc.
- ✘ **Wi-Fi Hotspot available to connect with commercial vehicle's ELD, Driver status monitoring and FMS etc.**

*ELD: Electronic logging device that is mandatory for commercial vehicle in US to record driving time & hours.

Close ranged OBD device (Doosan Infracore Co., Ltd.)

von-P10 Series (Basic)

von-P 11

Basic Acts as a client which gathers essential vehicle data (Driving summary, G-sensor, vehicle condition)

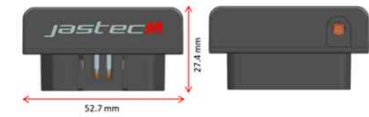
- ✓ Serial : RS232
- ✓ Wi-fi : IEEE 802.11 b/g/n
- ✓ Bluetooth : BT EDR / BLE v4.2
- ✓ G-Sensor: BMI 160 (6-axis)



von-P 12

Basic+ Acts as a client which gathers essential vehicle data (Driving summary, G-sensor, vehicle condition) + external port available for Wi-fi antenna

- ✓ Serial : RS232
- ✓ Wi-fi : IEEE 802.11 b/g/n
- ✓ Bluetooth : BT EDR / BLE v4.2
- ✓ G-Sensor : BMI 160 (6-axis)
- ✓ ※ External port for Wi-fi antenna

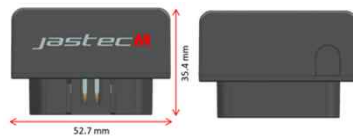


von-P20 Series (USB Onboard)

von-P 11

USB Onboard USB host board is added to interlock with another connected device

- ✓ Serial : RS232
- ✓ Wi-fi : IEEE 802.11 b/g/n
- ✓ Bluetooth : BT EDR / BLE v4.2
- ✓ G-Sensor : BMI 160 (6-axis)
- ✓ USB Host Board

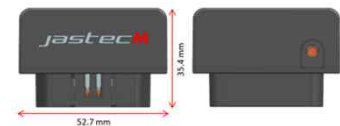


von-P 12

USB + Wi-fi External Port USB host board is added to interlock with another connected device + external port available for Wi-fi antenna

- ✓ Serial : RS232
- ✓ Wi-fi : IEEE 802.11 b/g/n
- ✓ Bluetooth : BT EDR / BLE v4.2
- ✓ G-Sensor : BMI 160 (6-axis)
- ✓ USB Host Board

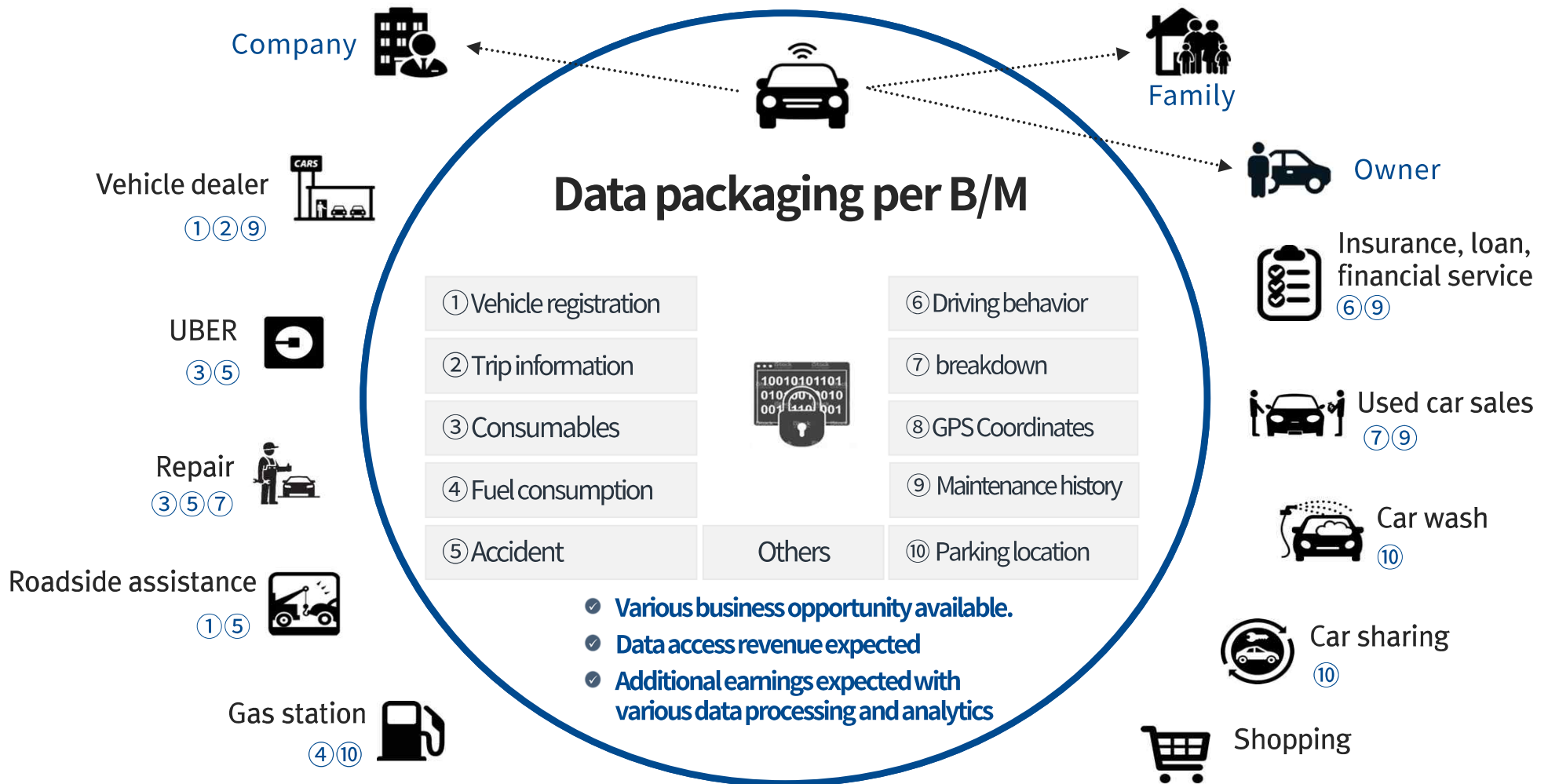
※ External port for Wi-fi antenna



2.6 Service Features Connected Car Service Platform

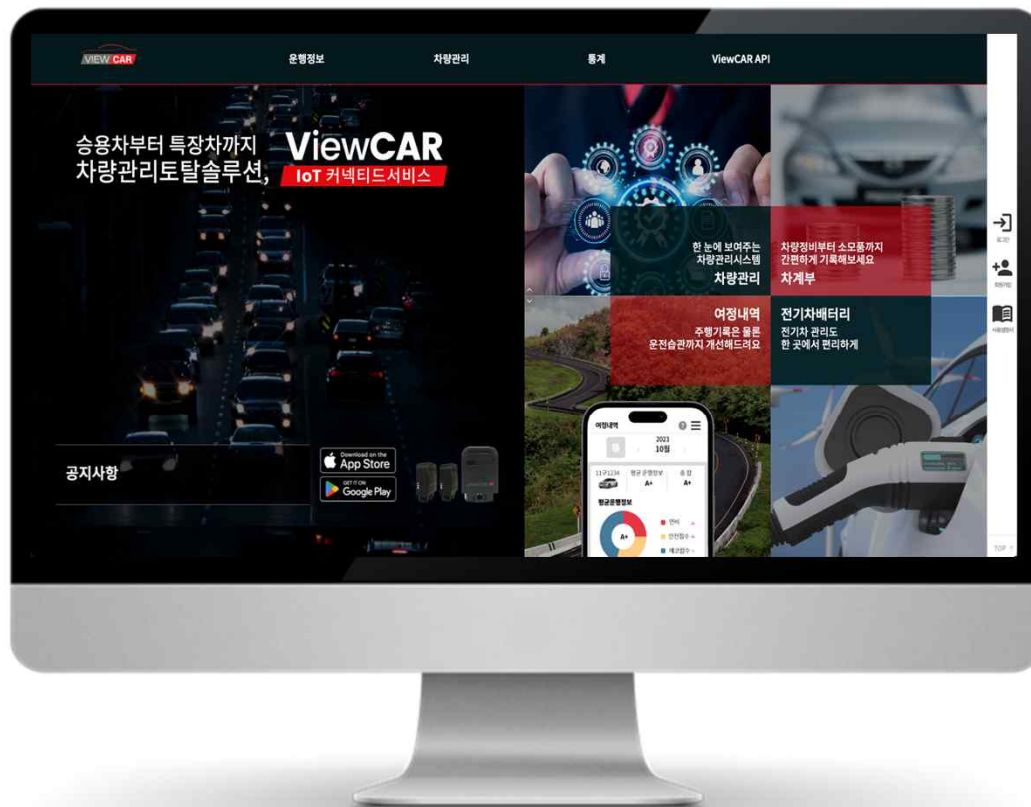
Data collected based on user verification & consent of data use

Up-to-date technology trend



2.7 Service Features ViewCAR™ Web

ViewCAR is a tool for gaining an access to vehicle related services as shown below.



Vehicle use reservation



Trip route & Event location monitoring service

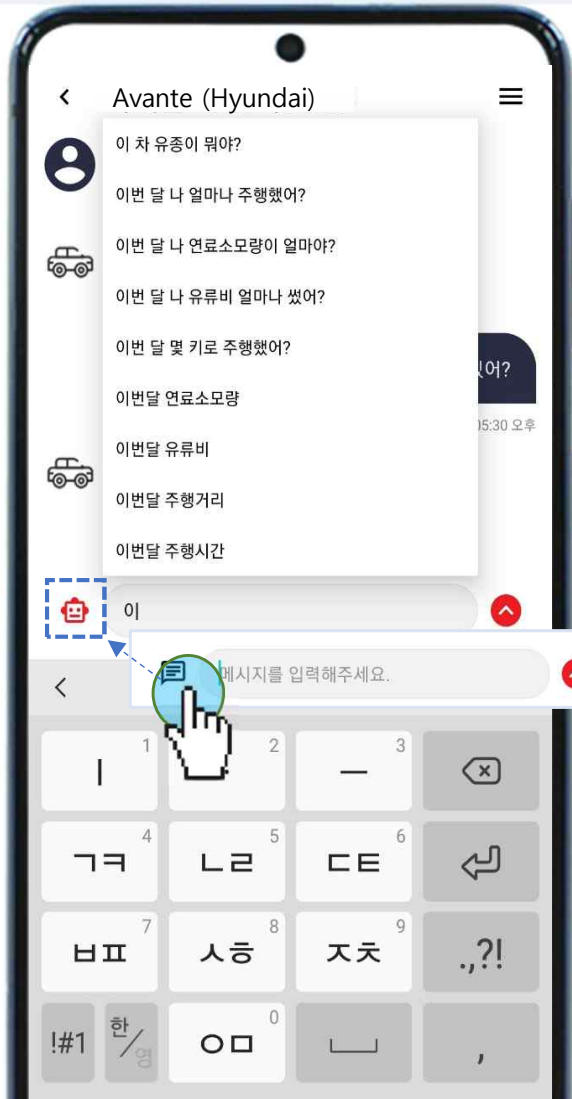


Vehicle breakdown monitoring



Real time accident report

AI Chatbot in IoT device to monitor vehicle information and control



Driving hours & odometer

“Tell me the current mileage or driving hours”

Vehicle location

“Where is my car now?”

Driving pattern

“Have I been driving safe?”

Vehicle condition

“Is my car in a good condition?”

Fuel consumption

“How much the gas left?”, “Should I refuel now??”, “what is fuel type of this car??”

Fuel cost

“How much is the gas this month?”, “How about the oil price now?”

Remote car door control

“Please close the door”, “open the car door.”



Business

Market Leaders

Business Models

Competitiveness

03 Chapter

3.1 Market Leaders

The most similar service as JastecM, Israeli vehicle bigdata platform company

『OTONOMO』

- ✓ NASDAQ IPO in progress
(SK invested 10M USD in end of 2018, acquired 2.69% of shares)
- ✓ **Fundraising stage : Series C**
- ✓ **Total amount of fundraising : 89M USD**
- ✓ Number of Employees : Approx. 110 ~ 250
- ✓ Providing API service with vehicle OEM(BMW, Daimler, Mitsubishi, Mercedes-Benz etc.) for data collecting, e-Call, insurance, parking and repair service.

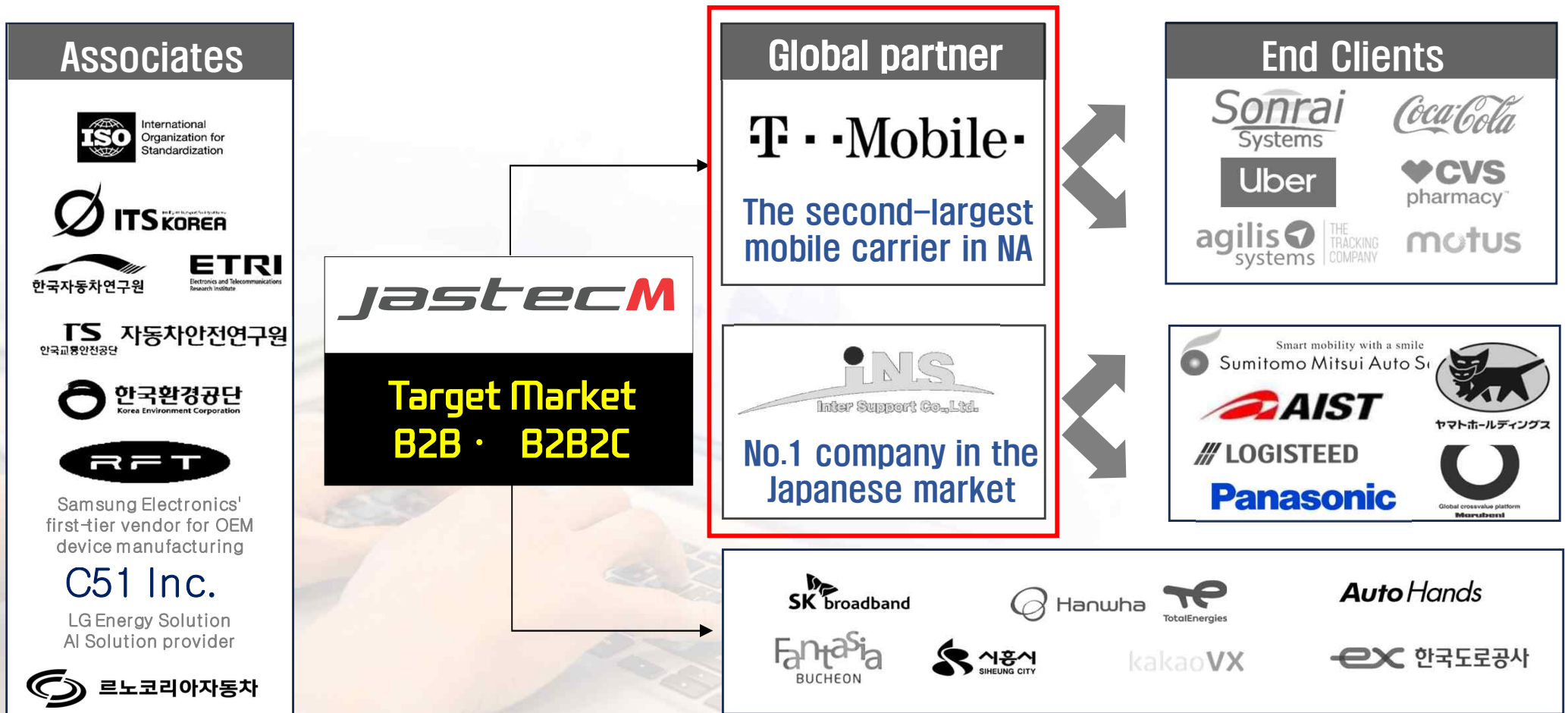


Second golden age with future solution, Dutch navigation company 『TOMTOM』

- ✓ 1st generation in European GPS navigation market
(25 employees, Revenue growth: 45M USD to 19.8B USD in 5 years)
- ✓ Stock plunged after Google Map launched in 2008
(91.2 USD → 2.43 USD)
- ✓ Back on its feet after diversifying its business and acquiring TeleAtlas* (3.2B USD) * Tele Atlas : Dutch company delivers digital map & In-car navigation system for autonomous driving
- ✓ **Key technology :**
Accurate road data and real-time data update
- ✓ Secured stable financial structure in 2015 (Revenue: 1.08B USD, Pre-tax net profit: 135M USD)

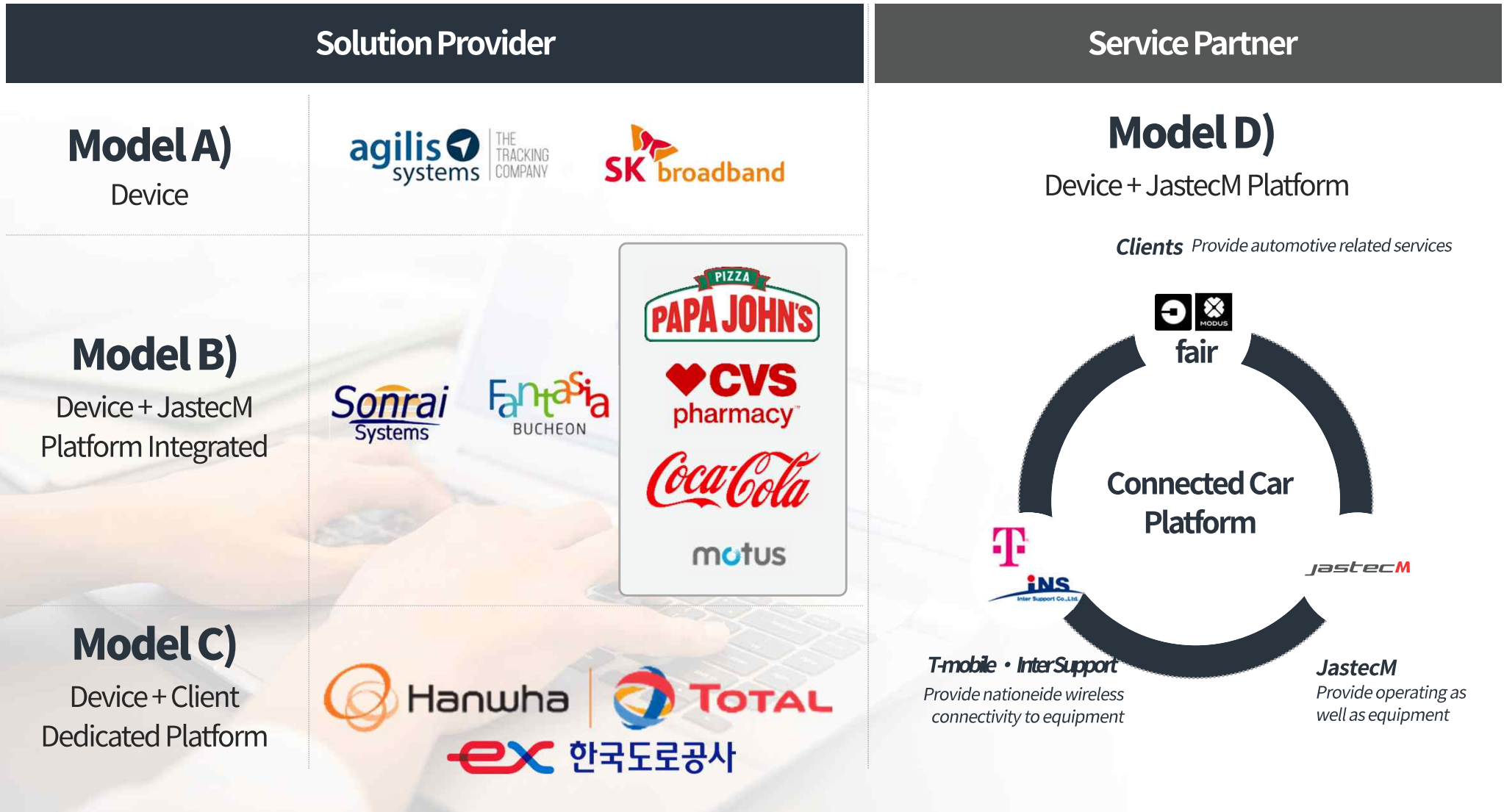
3.2 Business Models

Identify and acquire clients through global partnerships in our target markets of **B2B** and **B2B2C**



3.2 Business Models






Flexible • **Fast** B/M development by customer type (B2B, B2B2C etc.)



3.3 Competitiveness

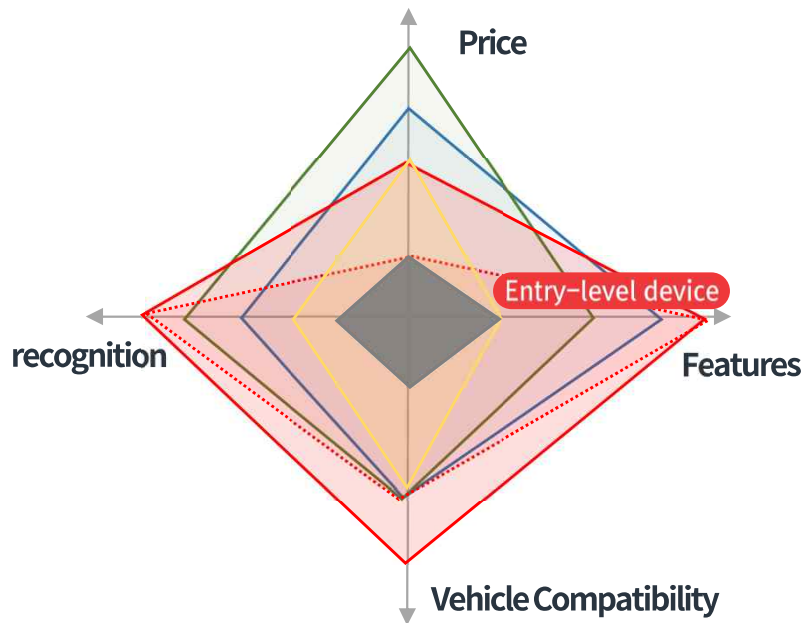
Price & quality analysis comparing to global competitors

- 01 Compatibility issue : **Compatible with all vehicle models in US** (3~5x more diverse than Korea)
- 02 Collects vehicle's location data per second & 100~200M/Monthly for Data usage
 - » **Cut down data usage** while gathering various data such as speed and angular rate (Data usage: appx. 15~20M/Monthly)
- 03 Secured accuracy of vehicle sensor data relatively higher than other competitors

Company	ZTE	Automatic	CALAMP	Verizon HUM	JastecM	
Model	Mobley	Automatic Pro	LMU-3035	HUM X	Von-S51	
Image						
Dimension	3.22 x 1.96 x 0.86"	1.96 x 1.65 x 0.79"	2.5 x 1.5 x 1.0"	3.19 x 2.13 x 1.06"	2.55 x 1.81 x 0.98"	
Network	LTE	3G	GPRS, CMDA, HSPA	LTE	LTE (Cat M1)	
SIM Type	Micro	Micro	Micro	eSIM	eSIM	
Vehicle Interface	CAN, PWM, VPW, K-Line	CAN, PWM, VPW, K-Line	CAN, PWM, VPW, K-Line	CAN, PWM, VPW, K-Line	Primary CAN(H.S CAN), Secondary CAN, K-Line, PWM, VPW, J1939	
Use Case	Maintenance management	-	-	-	-	Raw Sensor Information (Voltage, Temperature, Air flow, etc)
	Breakdown Assistance	Generic DTC	Generic DTC	Generic DTC	Generic DTC	Generic / Manufacturer DTC
	Fleet Management	Support by GPS	Support by GPS	Support by GPS	-	Support by GPS, Ignition On/Off
	Insurance	-	Risk Driving Analysis	-	Risk Driving Analysis	Risk Driving Analysis
	Remote Control	-	-	-	-	Door Lock/Unlock
	Direct local access to the Vehicle	-	-	BLEv4.0(Optional fit)	-	BLEv4.0 / Micro USB
Wifi Hotspot	Max 5 users	-	-	Max 10 users	-	

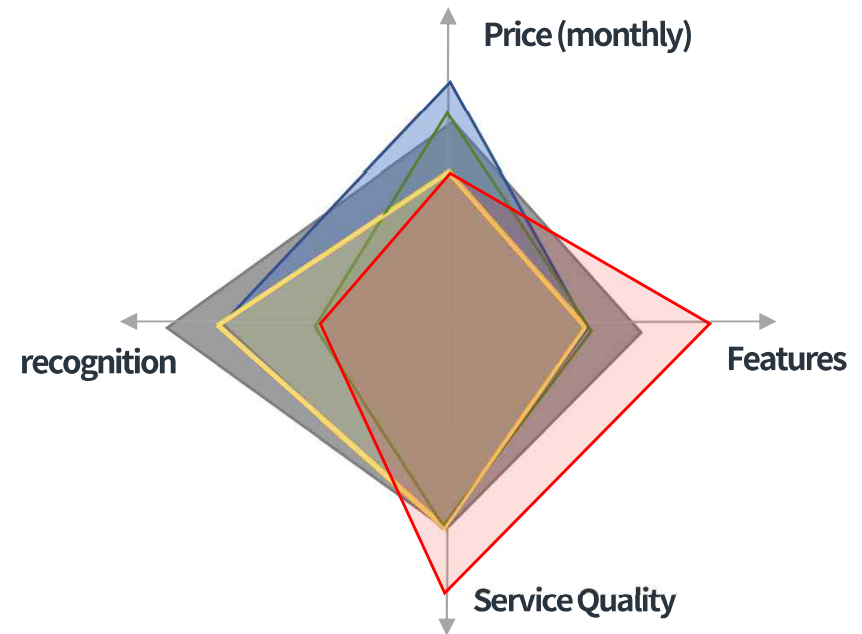
3.3 Competitiveness

ICT Device



- ✔ Price competitive comparing to Chinese product. (von-S51 : Entry-level model)

Service Platform



Currently JastecM's platform is on market-entry level.

- 01 Making partners for affiliated program development &
- 02 Market expansion with features & service by B/M are required



Company

History

Certification & IP

Oversea Activities

04 Chapter

4.1 History

2023	<ul style="list-style-type: none"> ✔ MOTIE Award for Knowledge Service Industry Contributions (Nov 30, 2023) ✔ G-Connect BETA service open
2022	<ul style="list-style-type: none"> ✔ Selected as Family-Friendly Company / Nominated for Ministry of Land, Infrastructure, and Transport's Top 100 National R&D Excellence ✔ Entering Japanese Market - Contract with Inter Support for Smart Mobility ICT Devices and Services ✔ Office moved – Gyeonggi-do Seongnam-si Sujeong-gu Dallaena-ro 46A-Tower 701, 702
2021	<ul style="list-style-type: none"> ✔ International Standard Development Project (Seamless Positioning Technology) ✔ KB Capital vehicle value residual assessment project ✔ Smart city waste pickup monitoring platform development project
2020	<ul style="list-style-type: none"> ✔ Nominated & awarded as the best IP-R&D company (Korea Intellectual Property Strategy Agency) ✔ Nominated as the company with excellent performance for data voucher project 'Waste pick-ups monitoring solution' (Korea Transport Institute) ✔ Nominated as the best industry integration company (Ministry of Trade, Industry and Energy)
2019	<ul style="list-style-type: none"> ✔ Nominated as the export frontier enterprise (Governor of Gyeonggi Province) ✔ Selected for Governmental R&D project – US device and platform development (Ministry of SMEs and Startups) ✔ Import started to US clients with Sprint ✔ Capital fund raised by 1,799,856 USD (Pre A) ✔ Waste pick-ups monitoring solution (City of Bucheon) ✔ Vehicle monitoring and car sharing solution for Star-Mobility and other rental corporates
2018	<ul style="list-style-type: none"> ✔ Master Purchase Agreement with Sprint (Million/yearly) ✔ Electrical delivery vehicle monitoring device (Korea Post) ✔ Carbon emission monitoring device for C-point service (Korea Environment Corp.) ✔ Energy efficiency monitoring device and service (Korea Transportation Safety Auth.) ✔ Commercial vehicle management system (Hanwha Total) ✔ B2B2C FMS device and service (SK Telecom)
2017	<ul style="list-style-type: none"> ✔ Connected car platform business (SK Telecom) ✔ Technical development project (SK Telecom) ✔ Connected Vehicle Platform project (Sprint) ✔ Nominated as the '2017 Export leading company' (KOTRA)
2016	<ul style="list-style-type: none"> ✔ K-Global Smart Mobile R&D (Ministry of Science and ICT) ✔ Acquired research facility accreditation (Korea Industrial Technology Association) ✔ Nominated as the best R&D entrepreneur (Ministry of SMEs and Startups) ✔ Merger between vehicle inspection specialist Jastec Co., Ltd. and platform corporate Infinityplus Co., Ltd.

Research & Development

Development

- Vehicle-IoT wireless network(3G/LoRa/LTE/LTE-M) connected device
- Firmware for vehicle sensors, GPS, Gyro/G-Sensor, Bluetooth
- Restful Open API for 3rd party business
- ViewCAR™ (Application & web service) for end user

International Standards

(Standard Essential Patents)

ISO / TC 204 WG17 standards in progress

- Emergency call feature related standard ISO published (Dec. 2020)
(ISO 20530-1 Information for emergency service support via Personal ITS station)
- Micro e-vehicle relate standardization work in progress
(Nomadic device service platform for micro mobility)
- Proposed emission monitoring standard
(Extracting trip data via nomadic device for estimating CO2 emissions)
- Proposed indoor & outdoor positioning based on sensor fusion method
(Seamless positioning for multimodal transportation in ITS stations)

4.2 Certification & IP

From habit to economic



Certification	Model	Certification No.
FCC	JTBT-1100	UK4JTBT1100
FCC	JTBT-2100	UK4JTBT2100
FCC	JTWF-1100	UK4JTWF1100
FCC	JTCM-1000	UK4JTCM1000
FCC	JTGM-1100	UK4JTGM-1100
FCC	JFCM-1000	UK4JFCM-1000
KC	JTBT-1100	KCC-CCM-JS0-JTBT1100
KC	JTBT-2100	KCC-CMM-JS0-JTBT2100
KC	JTWF-1100	KCC-CCM-JS0-JTWF1100
KIDI	JTBT-2100	KIDI-11-07
KIDI	JTUB-1000 & etc	KIDI-18- **



Item	IP No.	Title
Trademark	4500481620000	ViewCAR™
Patent	10-1382498	System and method for motion-sensing automotive airbag systems
Patent	10-1618118	BCM Control system with external device
Patent	10-2074905	Apparatus for processing vehicle information
Patent	10-2020-0188585	Vehicle price estimating method (Korea & US)
Patent	10-2021-0032244	Information exchange system with messenger display (Korea & US)
Patent	10-2021-0041415	Indoor and Outdoor continuous positioning switching method (Korea & US)
Copyright	C-2016-008356	VDAS(Vehicle Driving Analysis System)
Certification	881	Location based business

4.3 Overseas Activities

- ✓ Been participating in many ISO meetings & trade shows (TechCrunch, Melbourne ITS conference and ISO TC204)
- ✓ A registered expert of ISO TC204 WG16 / WG17 and published ISO 20530 as a proposer (Dec.2020)



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