HOLO NAVI PITCH DECK

MAIN INFO Co., Ltd

MAIN INFO

Infinite development, HOLONAVI

Company Introduction

In January 2023, Yoon Suk Yeol's president was selected as the top 100 companies of UAE Overseas Tour Economic Mission

Our company introduced to the media (about 2023 Presidential Economic Mission to UAE)
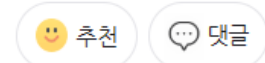
Company Introduction

In January 2023, Yoon Suk Yeol's president was selected as the top 100 companies of UAE Overseas Tour Economic Mission

연합뉴스

과기정통부 "UAE 협력 디지털기업에 영업사원처럼 전담 지원"(종합)

입력 2023.02.08. 오후 4:09 · 수정 2023.02.08. 오후 4:10   기사원문

조성미 기자

기업당 과장 1명 전담...박윤규 "내달 디지털기업 글로벌시장 선점전략 마련"
박 차관 챗GPT로 인삿말 작성 경험 공개..."토종 플랫폼 경쟁력 아직 희망적"

디지털 정밀 지도 제작 기업인 메인정보시스템 박익현 대표

박 대표는 "원전 내부를 3D 정밀 지도로 구축하는 데 성공한다면 중동 성과는 이후 미국, 유럽 등 시장에서 10배, 100배로 돌아올 것"이라고 강조했다.

Our company introduced in the media (Ministry of Science and ICT meeting)
=> Explains that the field of application of our technology is limitless, and that government departments will provide intensive support

2

Company Introduction

Signed an MOU for investment and technology cooperation with USAKO, a large US funding agency (23.01.03.)

MEMORANDUM OF UNDERSTANDING

BETWEEN

USAKO Group, LLC

AND

Main Info

In The field of Business Cooperation,

USAKO Group, LLC (a U.S. Limited Liability Corporation) and Main Info (a South Korean Corporation at 859 Huimang-Daero, Nam-gu, Pohang-si, Gyeongsangbuk-do, Republic of Korea) (hereinafter collectively referred to as "the Parties");

Having discussed and identified large area of common business interest and goal,

CONSIDERING the mutual benefits and the need to strengthen the cooperation between each other,

DESIRING to establish a productive relationship with the aim to develop and promote their business interest and goals now or to be identified in the future,

RECALLING that promoting and strengthening the relationship between the Parties will further facilitate these goals,

Have reached the following understanding:

ARTICLE I

OBJECTIVE

The objective of this Memorandum of Understanding is to establish the basis for a cooperative institutional relationship to encourage and promote business relationship between the Parties on the basis of mutual benefit, equality, and reciprocity. In addition, Main Info shall employee the President of USAKO Group as its chief

1

USAKO GROUP

President, Founder and CEO, USAKO Group, Han Ko

He earned his graduate degree, D. Sc. (공학박사) in the field of electrical engineering and has 3 decades of experience in international investment in technology and business scale-up. Based on his background, he has successfully launched and operated multiple ventures in U.S. and Asia. His experience includes various venture capital investments in technology and commercial real estate, in various firms, including WIF AX (a $50M+ Morgan Stanley managed investment Fund) (more listed below). He also has played various leadership/advisory roles in multiple for-profit organizations over the decades, serving as an investor/board member/adviser/mentor for multiple startups and mid-size companies in U.S. and Asia. In addition, he has been serving on multiple boards of non-profits, including AACC Chamber of Commerce board, St. Louis County Government Economic Development board, and the official Presidential Advisory Council board of S. Korea (NUAC), and other tech and community organizations listed below.
His media exposure includes the feature in "Year 2020 Top 100 People in Finance" by the magazine for his achievement.

American BIG VC USAKO GROUP
(Investment agencies to help Korean startups enter the North American market)
Signed an MOU with CEO Han Ko worth about 50 billion won

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859, Huimang-daero, Nam-gu, Pohang-si, Gyeongsangbuk-do, Republic of Korea
Silicon Valley 3003 N 1st St Suite No.116, San Jose, CA 95134
Tel : +82-54-274-1003 | C.P(CEO) : +82-10-5538-4989 | E-mail : main@maininfo.co.kr

3

Company Introduction

February 21, 2023 Meeting with U.S. Air Force and Special Warfare Command in Yongsan, Seoul (Mosaic Warfare/3D Precision Map Technology)

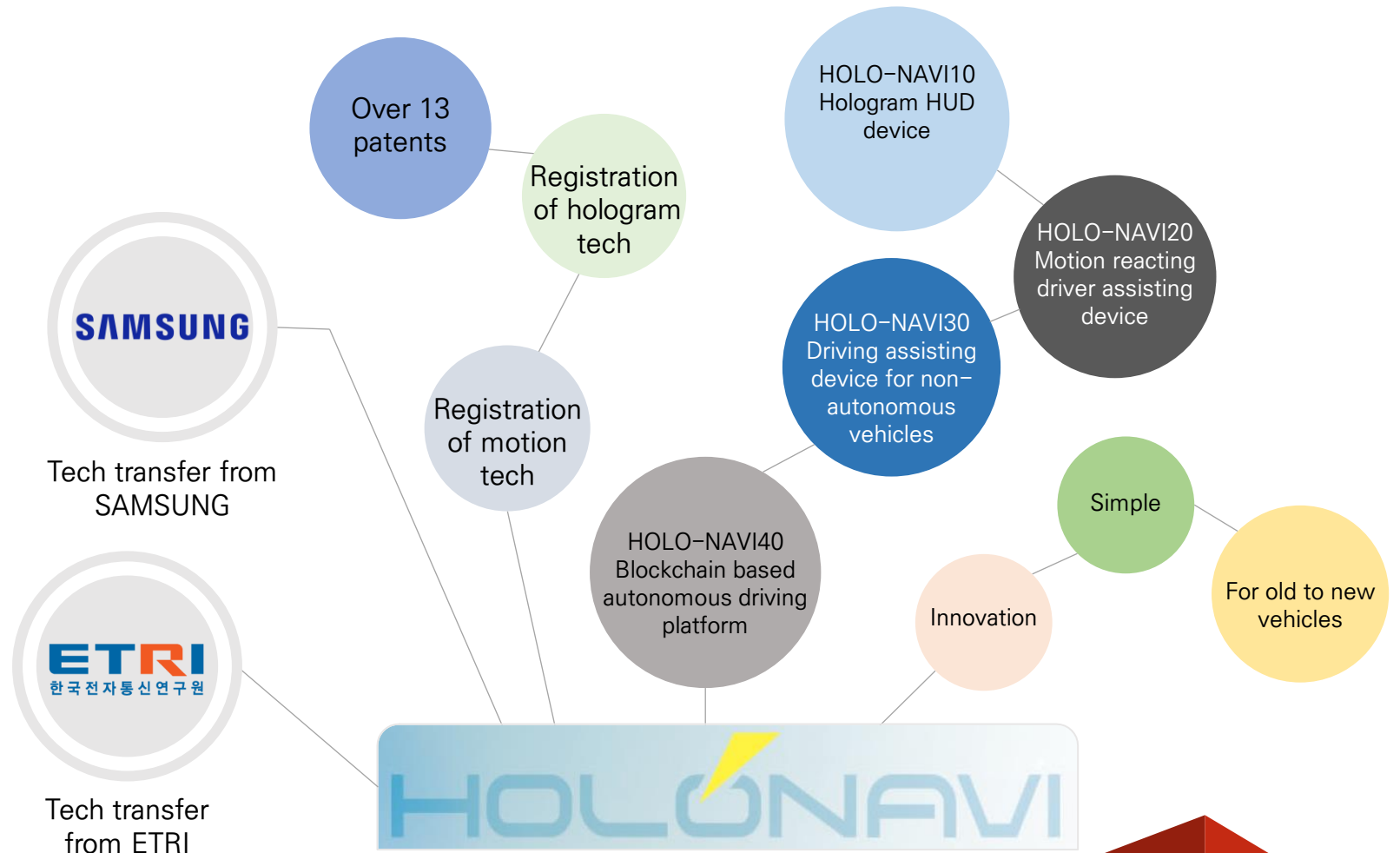Consultation related to **investment** in our research center and R&D service

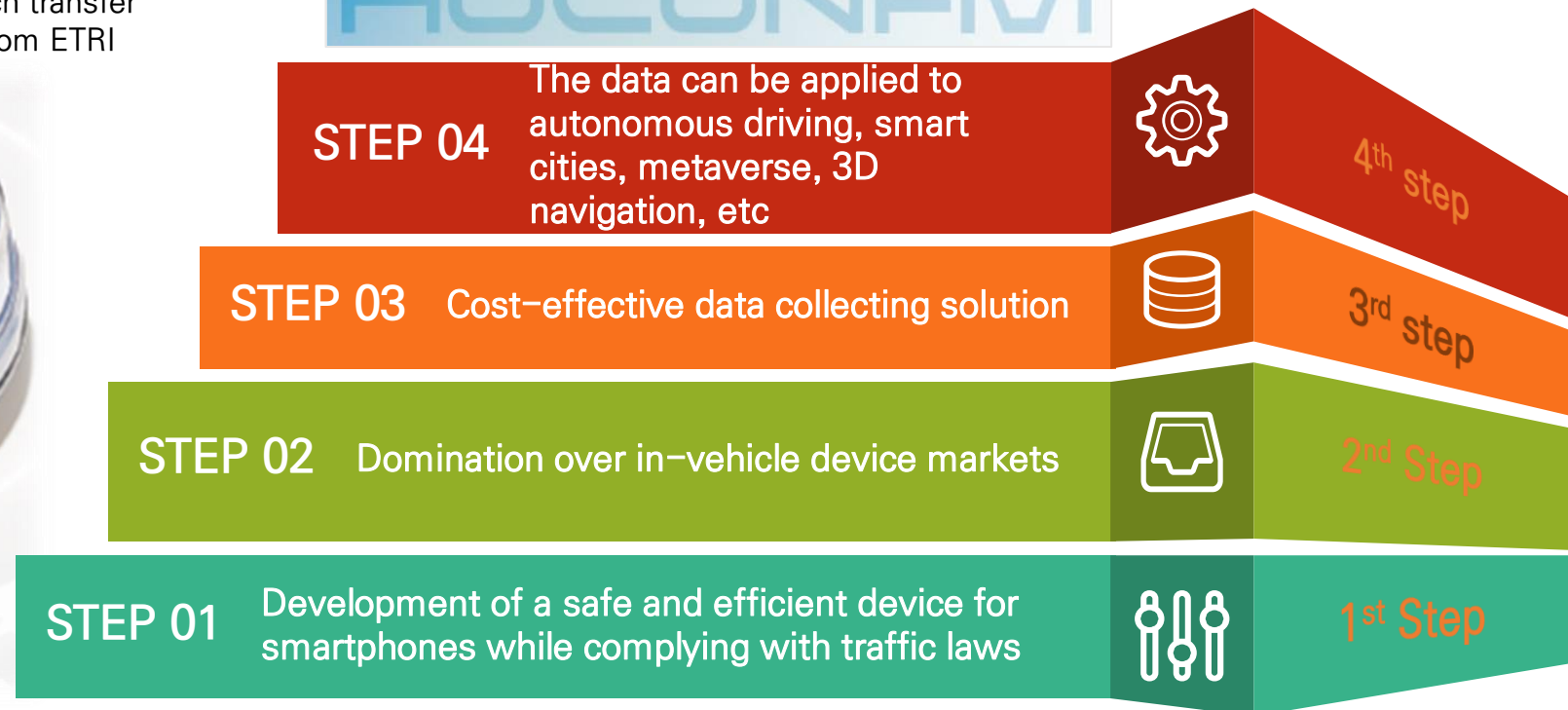Attachment 1)Autonomous driving assist device using blockchain composes real-time map for autonomous driving

Attachment 2)Autonomous driving assist device that

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5

Company introduction

MAIN INFO.
HOLO NAVI SYSTEM

MAIN INFO Co.,Ltd's technology is a smartphone-based solution that fuses 3D mapping technology with motion sensors. Our technology is currently embedded in aftermarket hardware and driver assistance products. We plan to utilize this for the upcoming 3D hologram mapping solution for autonomous driving programs

Over 13 patents

Registration of hologram tech

HOLO-NAVI10 Hologram HUD device

HOLO-NAVI20 Motion reacting driver assisting device

SAMSUNG

Tech transfer from SAMSUNG

Registration of motion tech

HOLO-NAVI30 Driving assisting device for non-autonomous vehicles

Simple

ETRI
한국전자통신연구원

Tech transfer from ETRI

HOLO-NAVI40 Blockchain based autonomous driving platform

Innovation

For old to new vehicles

HOLONAVI

STEP 04	The data can be applied to autonomous driving, smart cities, metaverse, 3D navigation, etc	4th step
STEP 03	Cost-effective data collecting solution	3rd step
STEP 02	Domination over in-vehicle device markets	2nd Step
STEP 01	Development of a safe and efficient device for smartphones while complying with traffic laws	1st Step

HOLO NAVI
Business STEP

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History and Highlights

| History

- 14.01.16 Established Main Information System Co., Ltd.
- 14.05.01 Recognized as an affiliated research institute
- 14.07.01 Confirmation of venture company
- 14.08.01 Received Spark Design Award for HOLO NAVI
- 14.10.01 Subcommittee of Ministry of Science
- 15.09.01 Youth CEO Entrepreneurship Competition Gold Award
- 16.01.01 Motion sensor and hologram/voice recognition technology transfer to MAIN INFO Co., Ltd
- 16.06.01 Release of HOLO NAVI M10
- 17.01.01 1st in Crowdfunding in South Korea
- 17.11.01 Subcommittee of Ministry of Transportation
- 18.06.14 Selected to accompany South Korean president to Russia economic delegation
- 18.09.05 Selected to accompany South Korean president to China economic delegation
- 18.10.20 Selected to accompany South Korean president to France economic delegation
- 18.12.11 Commendation award from South Korea's Venture SME group
- 19.01.15 Release of HOLO NAVI M20
- 19.04.19 Selected to accompany South Korean president to Kazakhstan economic delegation
- 19.06.12 Selected to accompany South Korean president to Sweden economic delegation

[Certification]

Recent news

- 2021.06.30 Participation in MWC exhibition at Spain
- 2021.08.30 Release of HOLO NAVI M22
- 2021.10.17 Participation in GITEX exhibition at Dubai
- 2021.11.01 Reviewed for participation in Saudi Arabia's LINE project
- 2021.11.01 Reviewed for investment from 2 UAE companies
- 2021.12.17 Participated in Korea–Thailand Smart city day
- 2022.01.04 Participation in CES at USA
- 2022.06.15 Invited from the USA embassy to SelectUSA summit
- 2023.01 Selected to accompany South Korean president to UAE economic delegation MOU with a local company, we succeeded in attracting an actual investment worth KRW 100 billion
- 2023.01 Signed an NDA contract with a US state government agency (Illinois)

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7

Key Achievements in 2022:
Technology demonstration PoC of MAIN INFO

Technology PoC in the Middle East (2022.05.23)

- Introduction of 2 companies

- Tour of the UAE company

- Introduction of HOLO NAVI

- Functions Explained

- Test drive with HOLO NAVI

Proof of Concept

HOLO NAVI, UAE

AFE is a company related to the UAE royal family and is a solid company in various fields such as energy and defense industries.
After signing the MOU, We and AFE agreed to carry out related tasks such as R&D in the future
by writing a contract related to actual investment (about 80 million dollars)

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NDA with the State of Illinois

Drive-through system contract for small business owners is being promoted.
Details are not available due to security concerns.

The team

MAIN INFO Co.,Ltd.

The team is specialized in

1. **Mobile software**

2. **Computer programming**

3. **Oversea marketing**
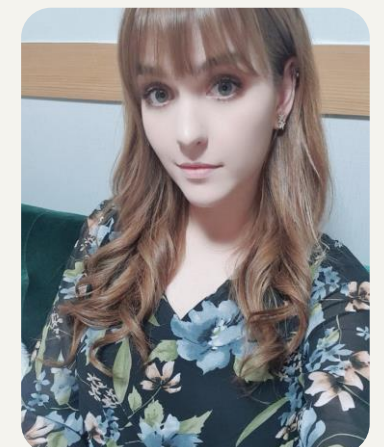
Park Ik Hyun	**Yeong Shim Jo**	**Cho Rong Kim**	**Rose**
CEO/CTO	CMO	Researcher	Designer
Beak Kyung soon	**Han Ko**	**Jeong Hong**	**Lee Sang Hwa**
R&D member	R&D member	R&D member	R&D member

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11

Current market and needs

Autonomous Driving Market Prospects and Goals

Market size analysis

(Unit: million dollars)

Autonomous Driving Precision Map
Global Market Size and Prospects

6 trillion

Year	2019	2020	2021	2022	2023	2024	2025
Value	835	1100	1449	1908	2513	3309	4358

(Unit: billion won)

Autonomous Driving Precision Map
Domestic market size and prospects

4153 billion

Year	2019	2020	2021	2022	2023	2024	2025
Value	796	1048	1380	1818	2394	3153	4153
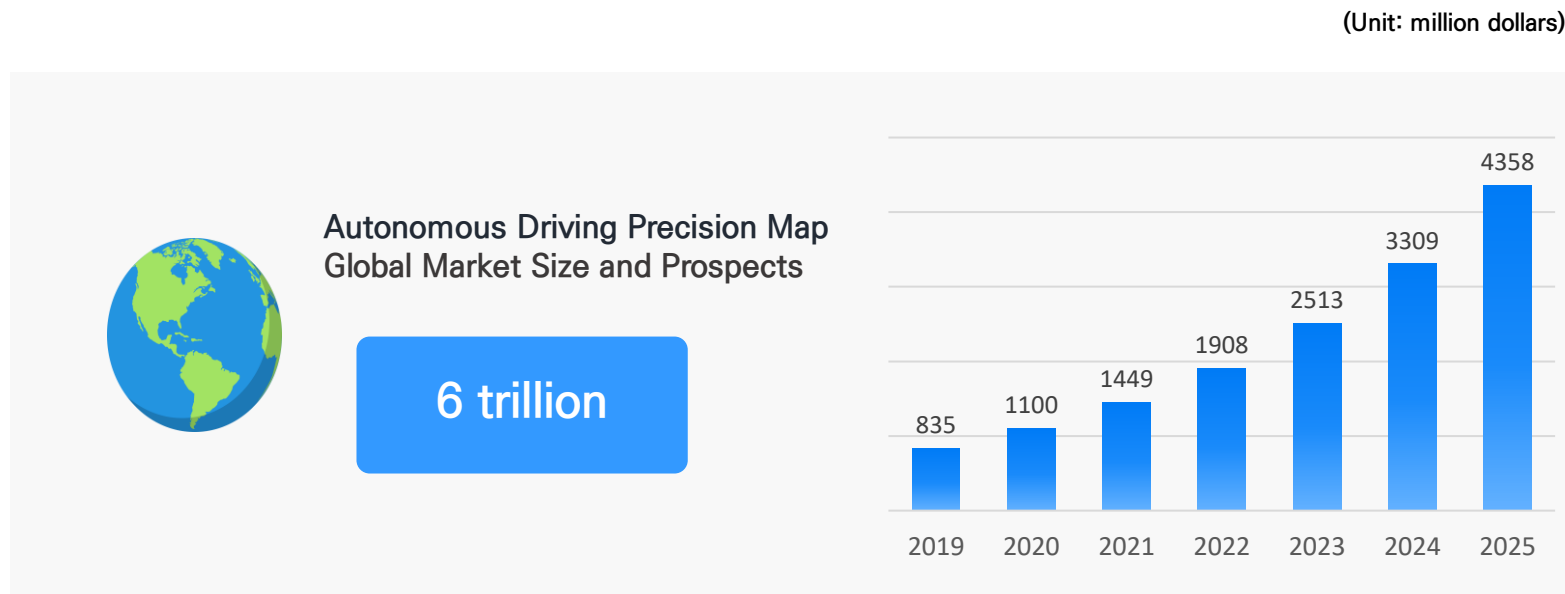
One of the most
important factors for
autonomous driving is

3D precision map

Current Market and Needs
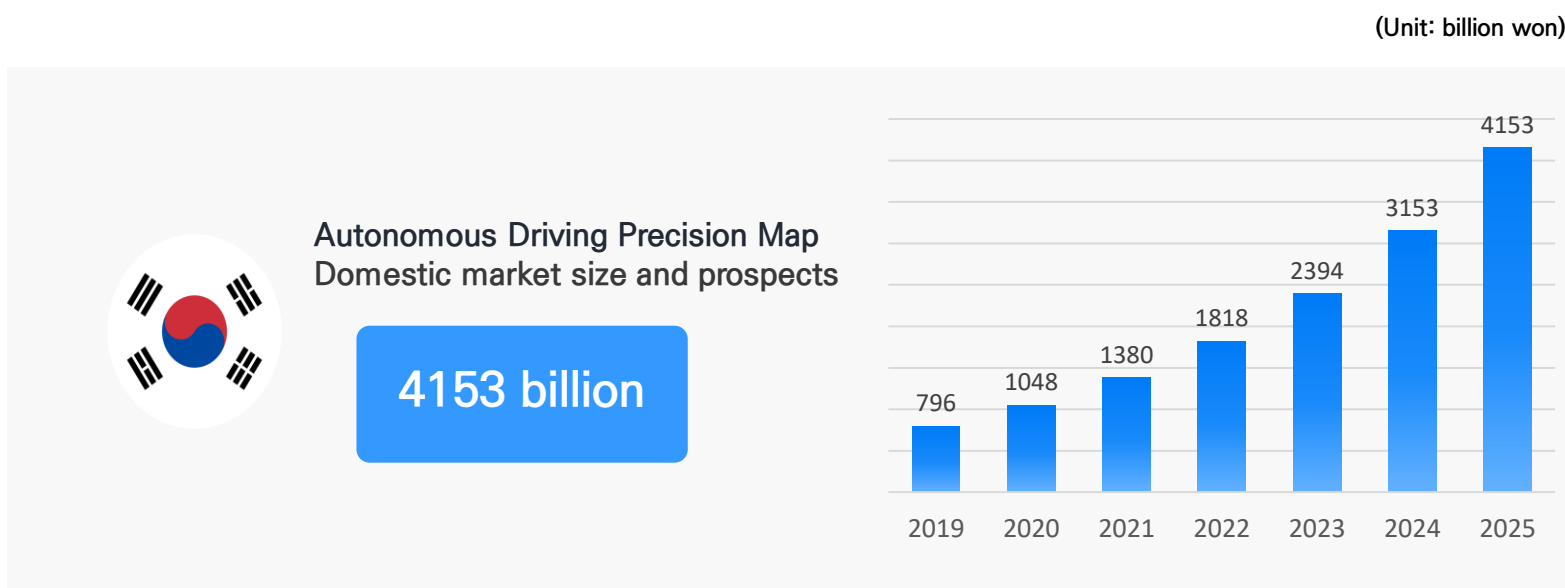
Current market and Needs

DATA collection and
why it is necessary

3D Camera market

Predicted to reach
142.03 billion USD by 2026
(CAGR: 12.5%)

3D MAP 시장

Predicted to reach 20.4
billion USD by 2030
(CAGR: 36.2%)

142 B

44 B

20 B

12 B

$

**Smartphone
3D camera market**

Predicted to reach 44
billion USD by 2030
(CAGR: 32.8%)

**3D mapping and
modelling 시장**

Predicted to reach
12.13 billion USD by 2028
(CAGR: 15.5%)

For the complete and safe functioning
of level 4~5 autonomous driving

**A fast and updatable 3D mapping system
and data collection is required**
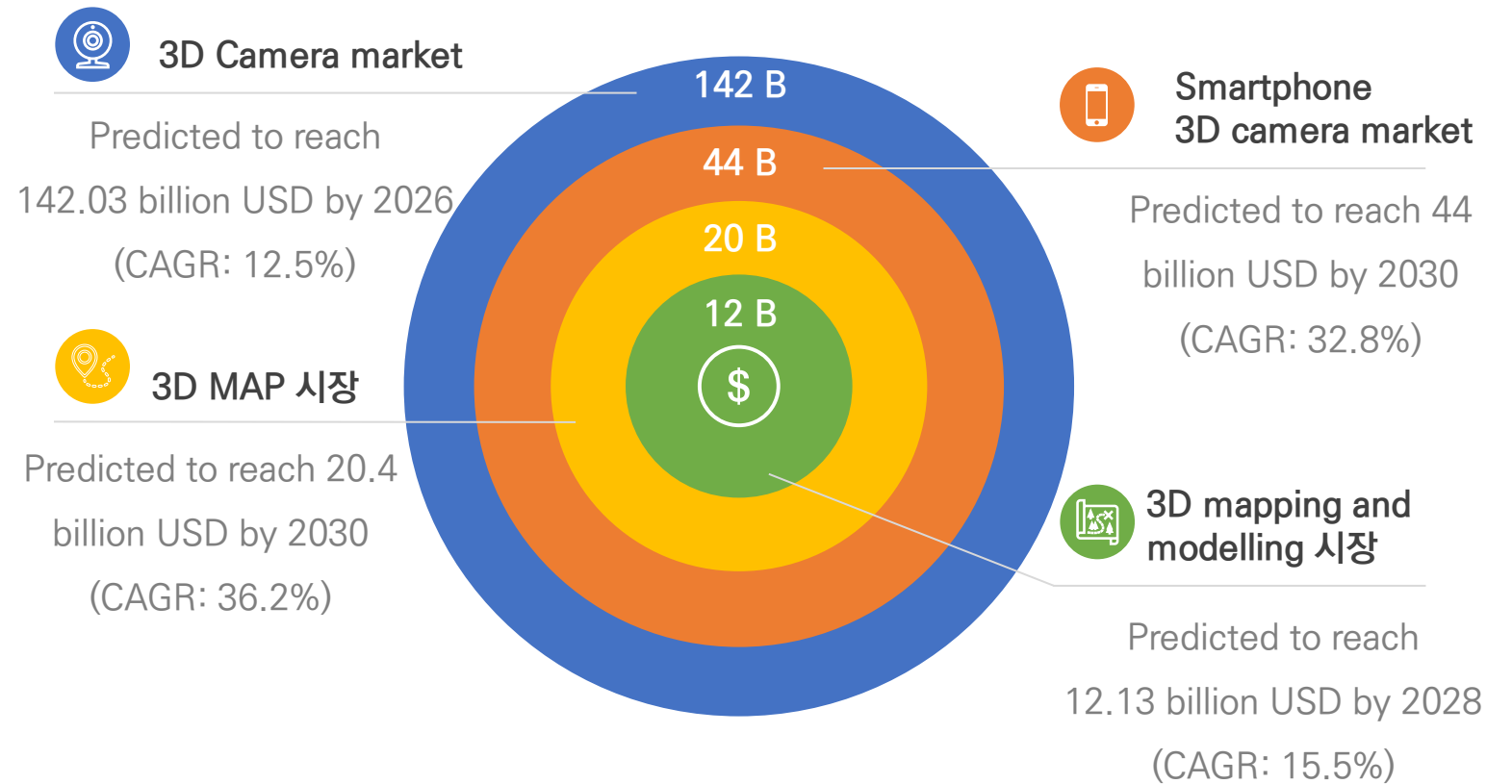
- Collection of data in the
level 0~3 is the most
important

Level 5 — Full Autonomation

Level 4 — High Autonomation

Level 3 — Conditional Autonomation

Level 2 — Partial Autonomation

Level 1 — Driver Assistance

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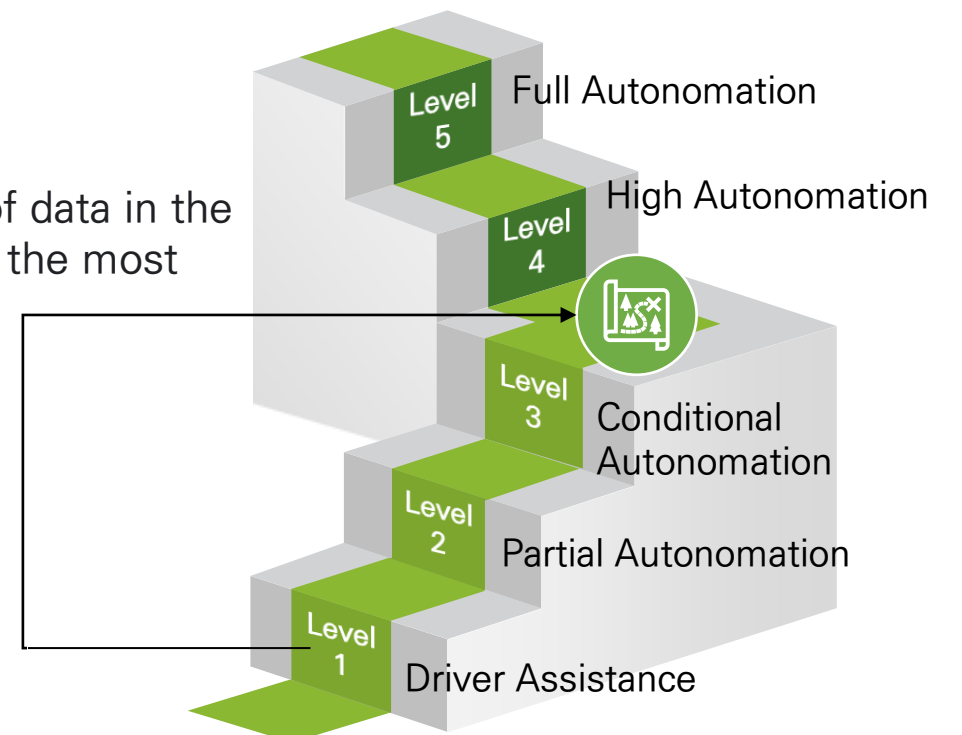
Introduction to LDM Precision Maps and Processes

Local Dynamic Map

Dynamic information on the road (infrastructure provided information, sensor information, weather information, etc.)
A precise map-based system that collects –manufacture – provides – stores – manages in real time

LEvel 4 or higher As a technology essential for autonomous cooperative driving, vehicles, pedestrians, Implementing safe autonomous driving by analyzing each information such as infrastructure

Precision map construction process

mms investigation

data postprocessing

content creation

Edit Attribute

● 동적데이터   ● 정적데이터

Layer 4
Dynamic data of moving objects on the road

Pedestrian
Automobile
Bike/Motorcycle

Layer 3
Transient Dynamic Data

Construction Information
Traffic accident/ Congestion Information

Signal information
Weather information

Layer 2
Static data with few changes

Building information
Traffic sign

Layer 1
Static data (precision map)

HD-Map (A precise map)

Highly dynamic data
Transient dynamic data
Transient static data
Permanent static data

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14

Solutions: HOLO NAVI

HOLO NAVI Key Features

Smartphone HOLO NAVI App

HOLO NAVI hardware

SERVER
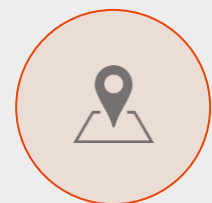
3D precision map

HOLO NAVI(Motion control)

Voice + hand gesture recognition
Drive Safety Mobile Device Mount

HOLO NAVI (ADAS)

Stereo-based a camera system
Based on GAN coding method
ADAS Support System

Visual SLAM

Visual SLAM and Crowdsourcing
System-based data collection
and 3D precision map construction system

Crowdsourcing

SLAM Simultaneous Localization and mapping
A simultaneous sensor ambient environment mapping process that determines the position and orientation of the sensor relative to the surrounding environment.
The HOLO NAVI App based on smartphone cameras mapping the area and Upload to a separate server to create a 3D map of your environment

The maximum amount of data can be secured in the shortest time by crowdsourcing method

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15

Solutions: HOLO NAVI
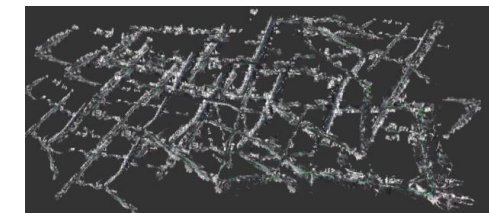
○ HOLO NAVI Utilization plan

HOLO NAVI SYSTEM(ADAS)

HOLO NAVI
By using the GAN coding method, ADAS values are continuously learned, and the ADAS recognition rate increases over time.

HOLO NAVI ensures driving stability through motion recognition (voice + hand motion)
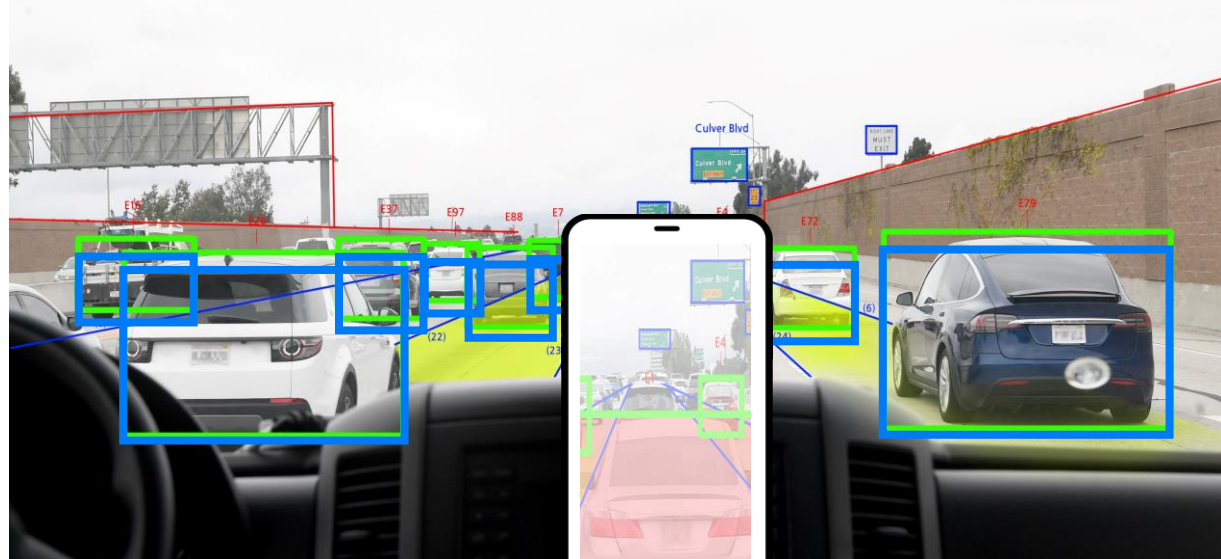
Smartphone camera-based system

A camera system with two or more lenses with separate image sensors or film frames.

Enables 3D image capture and formation by simulating human binocular vision
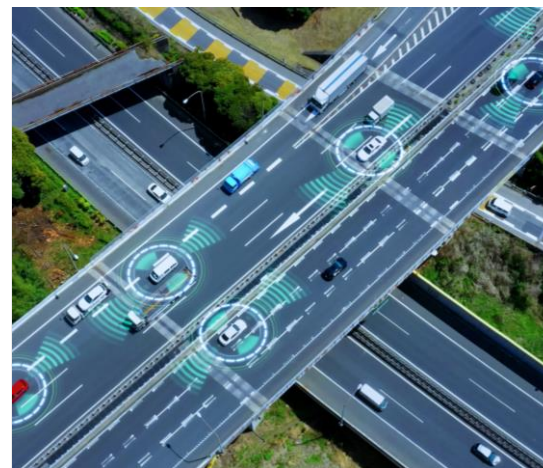
GAN Coding

Calculation of driver to object distance provides forward collision and lane departure warning

Designed to self-learn different environments using GAN coding methods

GIVE & TAKE System

Gestures and voice recognition help control secure and efficient mobile devices

Provides forward collision and lane departure warnings

on the road DATA

Driver GIVE

HOLO NAVI TAKE

Solution: HOLO NAVI
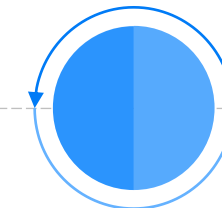
Success of 3D mapping technology with camera (2022.07.)

Visual SLAM

- Simultaneous Localization and Mapping (SLAM) is the process of mapping the environment around the sensor while determining the location and orientation of the sensor with respect to the surrounding environment.

- The smartphone camera-based HOLO NAVI App maps the area and builds a 3D map of the environment by uploading it to a separate server.

Crowdsourcing

- With the existing system, it takes a very long time to map an entire city

- HOLO NAVI can secure maximum data in the minimum time by using the crowdsourcing method and mobile devices

HOLO NAVI 3D mapping system

1. Wireless charging and gesture/voice control based smartphone mount hardware

2. Stereo-based camera system and GAN coding-based ADAS alarm software

3. Visual SLAM and crowdsourcing system-based 3D precision mapping software

n x HOLO NAVI

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Solutions: HOLO NAVI
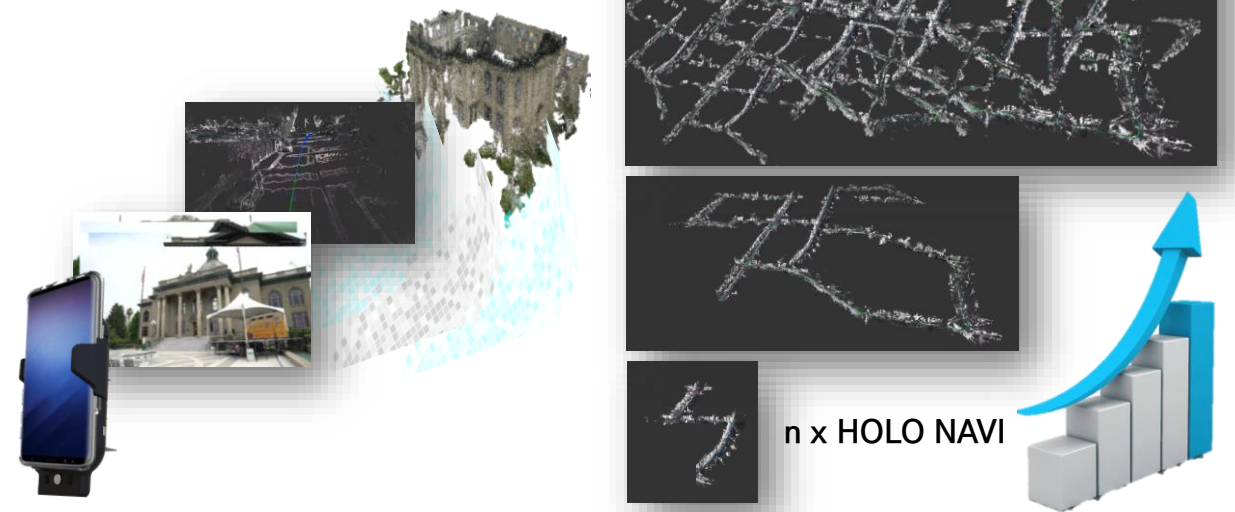
Visual SLAM & Crowdsourcing
(Maximum data collection in the shortest time)

Google Automotive Data Collection

16,000,000KM

Required period : 11 years.

Sensing using expensive MMS

HOLO NAVI Data collection

16,000,000KM

Required period : 7 days
*20 million vehicles in Korea

Data collection using a smartphone camera

sculptures around the road
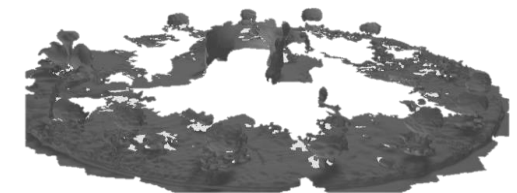
a vehicle on the road

Solution: HOLO NAVI

The accuracy of ADAS warnings can be weak at first, but with our GAN coding method the software will self-educate itself
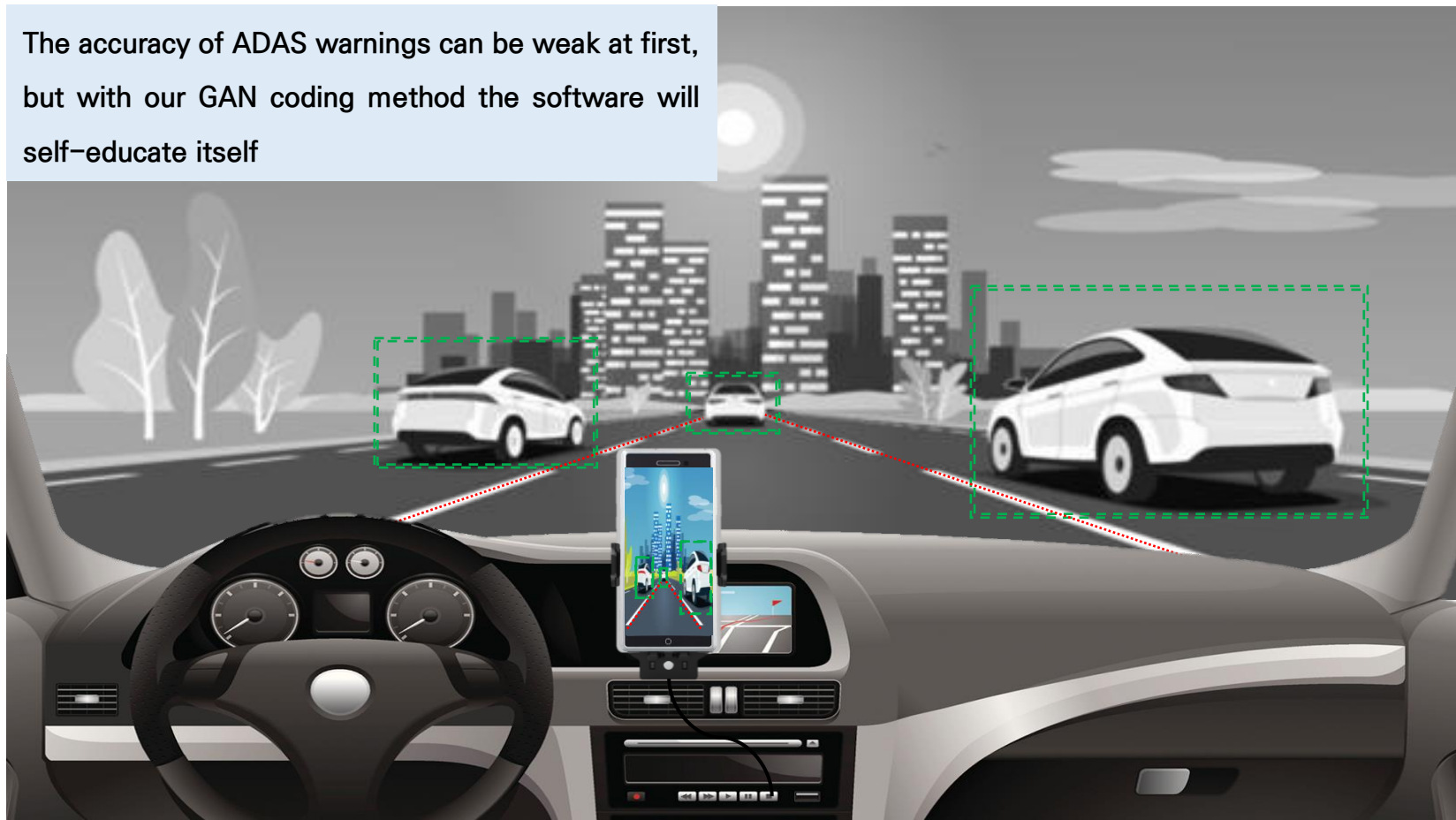
HOLO NAVI SYSTEM

- Road data collecting solution for 3D mapping

- Securing versatility by configuring it as a device that works with a mobile device (App)

- Data can be collected from all drivers by using mobile devices that are used today regardless of age or gender.

- B2C, B2B, B2G channels are all applicable

- The data can be used in autonomous driving programs, smart cities, metaverses, etc.

- Software + Hardware : Total Solution

Stereo-based camera technology
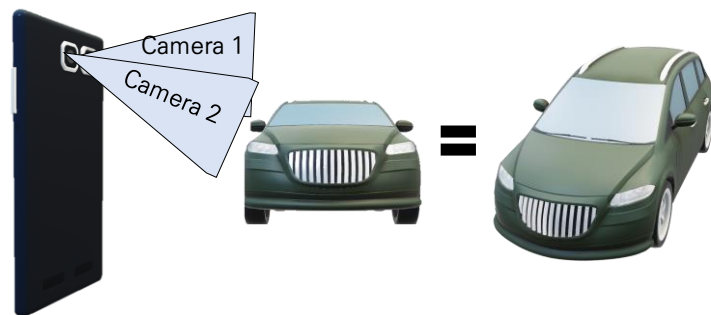
Camera 1
Camera 2

- A stereo-based camera system is a camera system with two or more lenses with separate image sensors or film frames.

- Capturing and forming 3D images by simulating human binocular vision

GAN coding method

Learns from DATA SET

Upload and updates ADAS
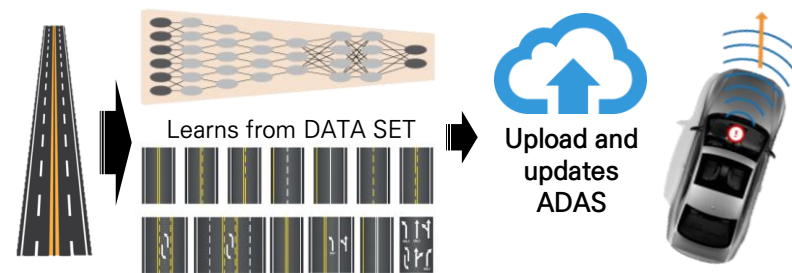
- A stereo-based system calculates the distance between the driver and other objects to provide forward collision and lane departure warnings

- Each city has a different road environment, so it is designed to self-learn different environments using GAN coding methods.

〈H/W design〉

〈S/W App design〉

Solution: HOLO NAVI

An object near the road
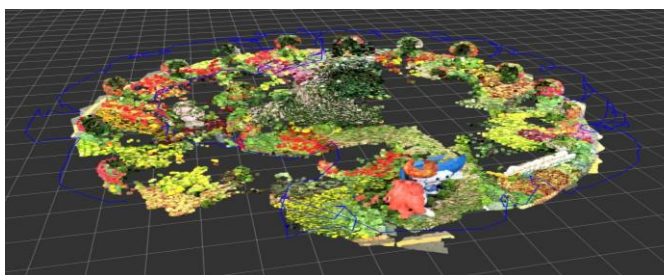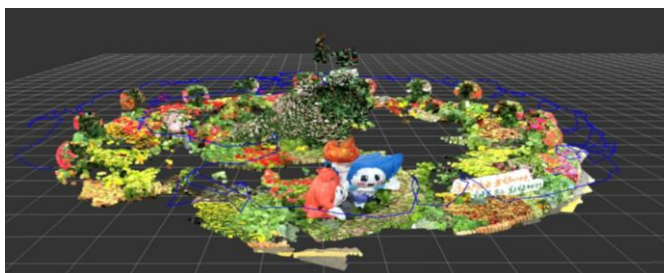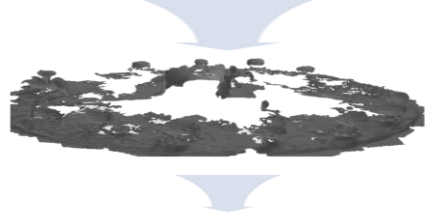
Vehicle on the road

HOLO NAVI H/W and S/W

- Give & Take system for business
  Give: safety and efficiency of
  smartphone and ADAS
  alarms
  Take: data of the road

- Safe and efficient mobile device control

- Control mobile device functions with gestures and voice recognition

- Forward Collision and Lane Departure Warning (ADAS Implementation with Mobile App)

MAIN INFO Main Information System

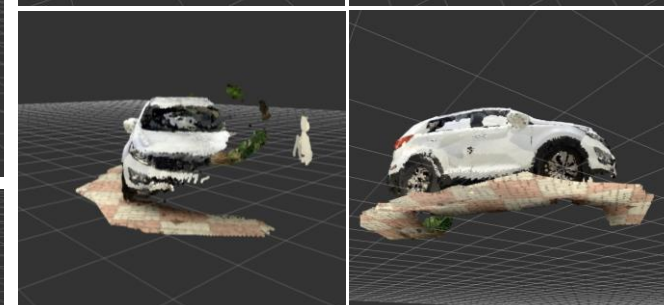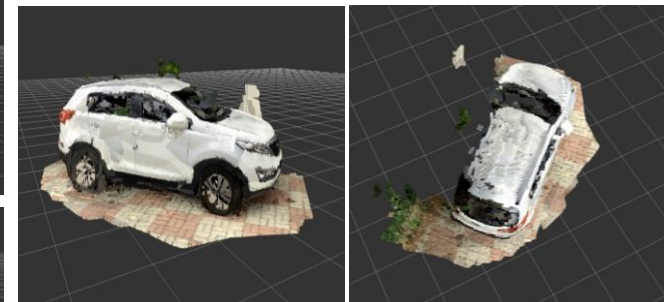| HOLO NAVI Specifications	Technology Level	HOLO NAVI Specifications	Explanation
1. Reaction time of gesture control	295 microseconds	1. Reaction time of gesture control	When the driver makes a gesture with their hand in front of the HOLO NAVI device, the sensor reads the gesture and the smartphone reacts to it. The time for the smartphone to carry out the function is 295 microseconds.
2. Lane departure warning accuracy	85%	2. Lane departure warning accuracy	The HOLO NAVI app uses GAN coding. (generative adversarial network is a machine learning (ML) model in which two neural networks compete with each other to become more accurate in their predictions. The result is HOLO NAVI app can self-educate itself while it is running in that environment.
3. Forward collision warning accuracy	85%	3. Forward collision warning accuracy	Same as above
4. Number of traffic lane types that are recognizable	Up to 3 types of lanes	4. Number of traffic lane types that are recognizable	Traffic lanes differ in size, color, width, and material. Currently, we have our HOLO NAVI training with the lanes of Abu Dhabi. We are able to upgrade to detect lanes in other countries through R&D
5. Number of object types that are recognizable	Up to 2 types of objects	5. Number of object types that are recognizable	Vehicles and pedestrians are the 2 main focuses of our forward collision detection.
6. Max distance of object detection	Up to 30 meters	6. Max distance of object detection	Giving drivers an alarm 30 meters before a collision would be efficient for them to stop.
7. System crash percentage	Less than 5%	7. System crash percentage	The HOLO NAVI app has less than 5% of crashing
8. Time of setting up device in vehicle	No more than 5 minutes	8. Time of setting up the device in vehicle	The set up takes no longer than 10 minutes
9. Temperature durability	Up to 65°C	9. Temperature durability	The components resist up to 65°C Due to the high temperature of the Middle East. Also, a cooling fan is inside the HOLO NAVI device to stop the smartphone from overheating.
10. Amount of DATA Collectible • From 1 vehicle • For 1 hour	Up to 10 gigabytes per hour	10. Amount of DATA Collectible • From 1 vehicle • For 1 hour	Number of vehicles in GCC countries = est. 25,083,965 vehicles Even if we have a HOLO NAVI in 1% of these vehicles running for only 6 hours: 250,839 the total data that is collectible is 15,050,340 GB

HOLO NAVI 기능과 정량지표   HOLO NAVI 기능과 정량지표 상세내역

Technology information

Automatic Smartphone holding wings

Cooling Fan Customized feature for the Middle East

15W Coil

15cm Arm Holder

Air vent holder (Hooking Style)

Gesture Control Laser Sensor
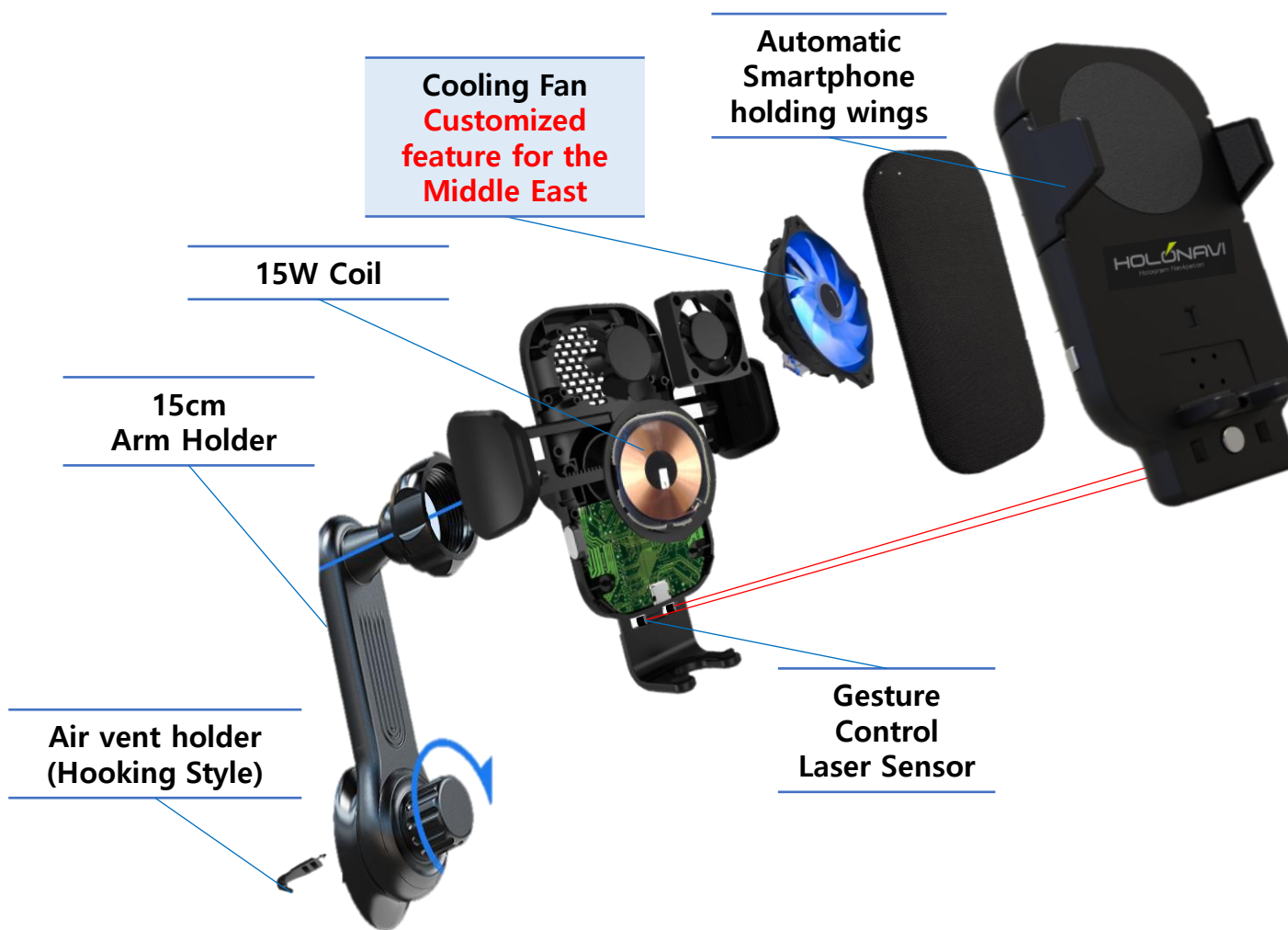
HOLO NAVI Package (set up in less than 10 minutes)

Anti-Fall Design Clip Makes Your Phone Stable

GET IT ON Google Play

Download on the App Store

HOLO NAVI – H/W components

HOLO NAVI – Set up

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22

Mobileye

1. Mobileye was founded in 1999 by Aviram, together with Amnon Shashua. Each now owns a 10% stake in the company.

2. Mobileye established its first research center in 2004, and launched the first generation EyeQ1 processor four years later, in 2008. The technology offered driver assistance including AEB (automatic emergency braking). One of the first vehicles to use this technology was the fifth-generation BMW 7 Series. Subsequent versions of the chip were released in 2010, 2014, and 2018.[9]

3. The company became profitable starting in 2012 making a 1~2 million USD.

4. Now they make more than 1.4 billion USD and received more than 6 investments after their initiated funding.

Mobileye

1. Mobileye uses camera and lidar technology to achieve the task that we are doing.

2. However our HOLO NAVI device and software can bring similar results as Mobileye's 630 product with much lower priced hardware and a simple downloadable application.

3. Also Mobileye does not include the Connected Car system that we are planning

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Required Funds and Estimated Revenue

- Current company value: 14 billion won
- Attracting KRW 4.2 billion in investment for 30% of the company's stake (phase 1)

Stage	Name of the product (Version)	Product functionality	Required funds and contents
		Currently in the process of attracting investment for this stage	
Step 1.	HOLO NAVI M20	Control mobile devices with motion and voice recognition • Receive/reject phone calls, send text messages, control music, etc.	4.2 Billion Won Required (Production of mass production models, Production and marketing)
Completed prototype development	HOLO NAVI M22	Features of the M20 + • ADAS Support System • (Warning forward collision and lane departure)	
	HOLO NAVI M24	Features of the M22 + • Black box function	HOLO NAVI M24
Step 2.	HOLO NAVI M30	M25 Features + • In-vehicle payment and advertising platform • Solutions to overcome COVID-19 • Driving Thru Solutions for Small Businesses	Can proceed after step 1 (Approximately 6.5 billion won is required)
Step 3	HOLO NAVI M40	M30 Features + • Constantly updated 3D precision map construction system	Can proceed after step 2 (Approximately 15 billion won is required)

Brand		HOLO NAVI				
Target Client		B2C: Smartphone and vehicle owners B2B: Vehicle manufacturers, taxi, bus, truck companies, automotive platform companies (Uber, Careem, Lyft, etc.) B2G: Government agencies planning smart city projects				
consumer prices		~ $160				
a competitive price		Lidar / Radar / Black Box Products 400 ~ $9,000				
Year / an expected figure		2024	2025	2026	2027	2028
Domestic	Market Share	8%	13%	20%	30%	38%
	Number of sales	100,000	140,000	200,000	300,000	400,000
	the price of a product	$160	$161	$162	$162	$162
	Sales	16 million USD (20.9 billion won)	23 million USD (30 billion won)	33 million USD (43 billion won)	49 million USD (64 billion won)	65 million USD (85 billion)
	earnings	11 million USD (14.4 billion won)	16 million USD (20.9 billion won)	23 million USD (30 billion won)	34 million USD (44 billion won)	45 million USD (59 billion won)
foreign country	Market Share	3%	6%	11%	17%	27%
	Number of sales	400,000	880,000	1,290,000	1,800,000	2,450,000
	the price of a product	$160	$161	$162	$162	$162
	Sales	64 million USD (83 billion won)	142 million USD (180 billion won)	210 million USD (2,700억원)	290 million USD (3,800억원)	400 million USD (5,200억원)
	earnings	45 million USD (58 billion won)	99 million USD (120 billion won)	147 million USD (190 billion won)	203 million USD (260 billion won)	280 million USD (360 billion won)

The team

Park Ik Hyun

CEO

CEO's Background

- Current) CEO of Main Information System Co., Ltd.

- Graduated from Pennsylvania State University in Software Engineering (Master's)

- Graduated from Dongguk University Department of Information Industry (Bachelor)

- C) Autonomous Vehicle C-ITS / Precision Map Subcommittee

- F) SK Telecom (IoT / security) solution development

- F) Active as an advisory member of the Gyeongbuk Research Association under the Ministry of Science, ICT and Future Planning

- F) Working as a mentor for the Creative Economy Town project

- Gyeongsangbuk-do Youth CEO Entrepreneurship Contest Gold Award (2016)

- Commendation from the Minister of Small and Medium Venture Business (2018)

- Received a commendation from the Minister of Science and ICT (2019)

- Commendation from the Minister of Trade, Industry and Energy (2021)

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25

Han KO

Background

U.S. Air Force, U.S. Special Operations Command Advisory Board
- President & CEO, USAKO Group, an International Venture Capital Firm
- A board member and an officer, Asian American Chamber of Commerce,
- MO, U.S.A.
- Founder and Director of Global Marketing, Native Agtech, New York,
- U.S.A.
- Professor, Midwest University, Missouri, U.S.A.
- St. Louis County board (a board member of Economic Rescue Board, as a
- governmental economic development, Missouri, U.S.A.)
- City of Fairview Heights Economic advisory group (a member of economic
- development advisory group, Illinois, U.S.A.)
- an official Presidential Advisory Council member of S. Korea President
- (PUAC, S. Korea)
- OCA (a board member for a community advocacy group, U.S.A.)

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26

The team

Beak Kyung Soon

Background

- Naval Academy (42nd class)

- Seoul National University International Strategy Senior Course (2018)
- Blue House Foreign Affairs and National Security Office Office of the Defense Secretary

- Deputy Chief of Strategic Planning, Joint Chiefs of Staff (2018)

- Marine Corps 2nd Division Commander (2019)

- Former Deputy Marine Corps Commander (2021)

- Military Manpower Administration Policy Advisor (2021 ~ present)
- Dankook University Marine Corps Military Department Professor (2022 ~ present)

- Currently working as an advisory committee member for Main Information System Co., Ltd. (Technical advisory committee member for 3D precision map and Mosaic Warfare)

27

The team

Jeong Hong

R&D member

Background

- **Graduated from POSTECH University (Top ten in Asia regarding Science and Technology) with a Bachelor's degree in Electronic engineering. (1993)**

- **Graduated from POSTECH University (Top ten in Asia regarding Science and Technology) with a Master's degree in Electronic engineering. (1998)**

- **Professor in camera and object detection technology (+10 years)**

- **Currently R&D member at MAIN INFO Co.,Ltd**

Article from POSTECH University 2017.11.29

- The Korean Intellectual Property Office announced that it has selected Professor Jeong's team, who developed a systolic array chip with a high-speed BP structure for stereo matching, as the recipient of a special prize from the Korea Invention Promotion Association.

- This chip, developed by Professor Jeong's team, is a stereo vision chip that outputs a 3D distance image in real time through two images input from two cameras, and can be processed in real time through hundreds of parallel processors.

- Professor Jung's team said, "There is a lot of demand for 3D recognition that is processed in real time, so it will be used as a major part in fields that require 'recognition' technology, such as robots." This memory miniaturization and parallelization technology is also expected to be utilized in high-speed image processing fields such as motion extraction and image segmentation in the future.

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28

Lee Sang Hwa

R&D member

Background

- **Graduated from POSTECH University (Top ten in Asia regarding Science and Technology) with a Bachelor's degree in Electronic engineering. (2003)**

- **Graduated from POSTECH University (Top ten in Asia regarding Science and Technology) with a Master's degree in Electronic engineering. (2016)**

- **Head Researcher at KERI (Korea Electric Research Institute until 2019)**

- **Currently R&D member at MAIN INFO Co., Ltd**

Article from KERI 2018.05.29

- Lee Sang-Hwa (Head researcher at KERI participated in the '55th Invention Day Commemoration Ceremony' to develop technologies related to electrical and power equipment.

- In recognition of his contribution to development, he was awarded the Ministerial Citation. Senior Researcher Geun-Joo Kim succeeded in developing 'X-band linear accelerator', a core technology for radiation cancer treatment equipment, for the third time in the world Received a commendation from the Minister of Science, Technology and Information Senior Researcher Lee Sang-hwa received the Minister of Trade, Industry and Energy Award in recognition of his efforts to industrialize and develop basic technologies in the electric power field using electromagnetic waves

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29

Data collection is the future
From smart cities to autonomous vehicles

Let's make it happen tomorrow with MAIN INFO Co., Ltd.

Thank you 감사합니다.

MAIN INFO Co., Ltd.