



Driving into the **Future** with
HOLO NAVI

Contents

Opening

Advantages of MAIN INFO

- patents / patented technology
- product line

Business overview

Market Analysis

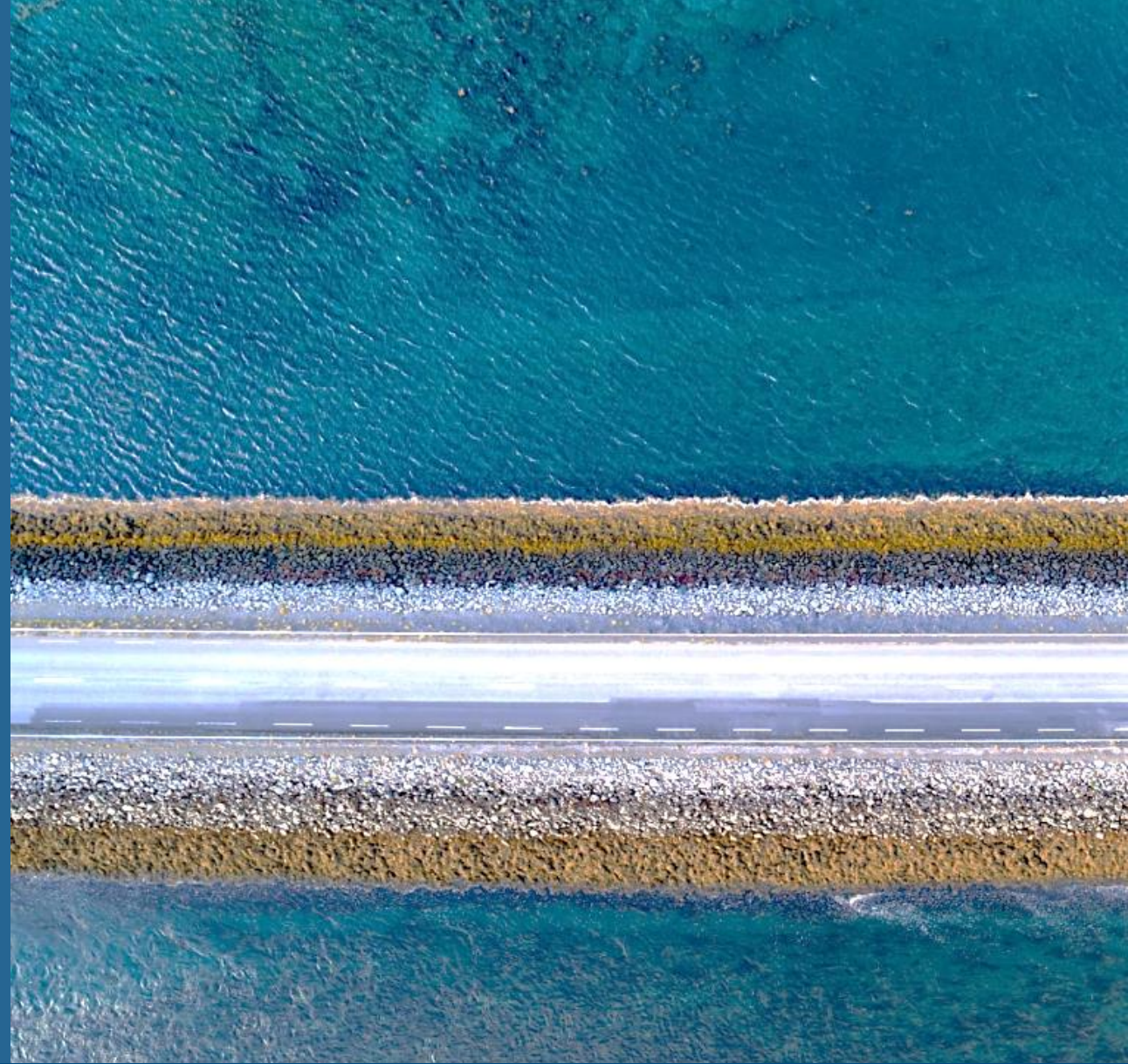
Team

- current status

Ultimate product : How to commercialize

Conclusion

- proposal
- how to contact us



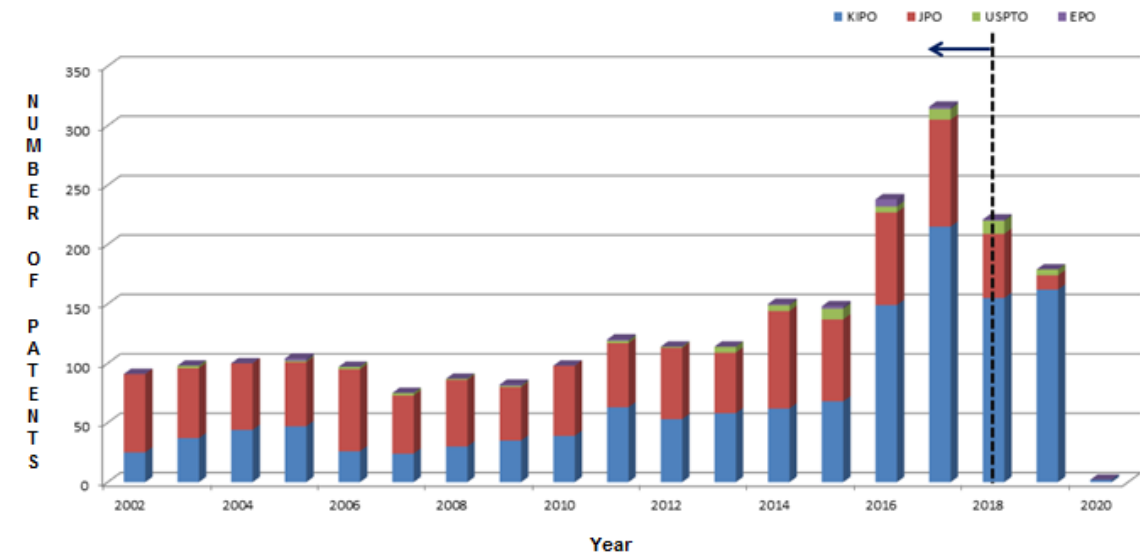


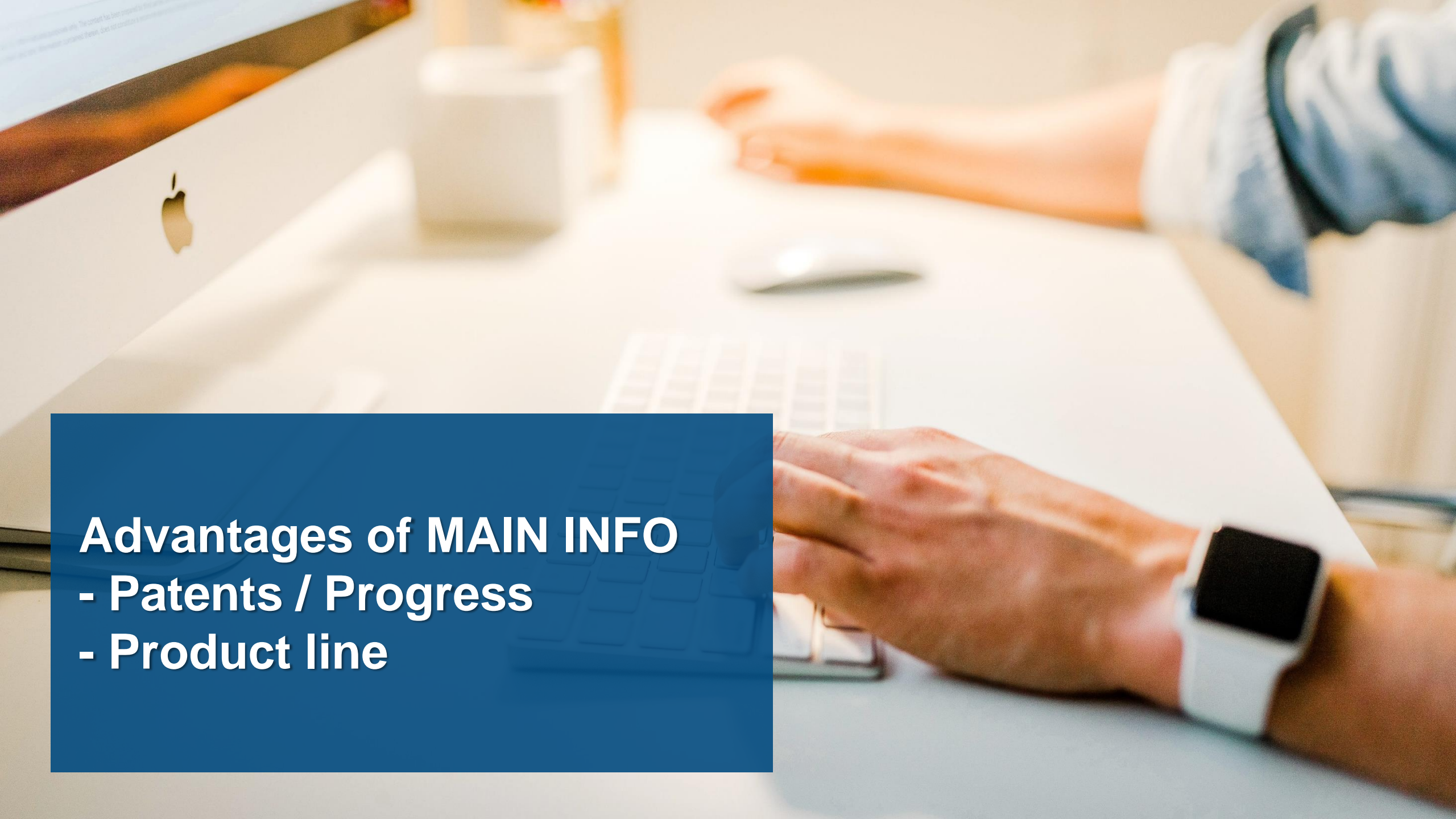
Opening



Introduction

- The step where data collection is very important for autonomous driving
- Autonomous driving without data collection is a search engine without data
- Strategic field in which many countries have R&D since 2010 (refer to the table regarding autonomous driving patents)
- Let's implement autonomous driving by using MAIN INFO's data collection



A blurred background image showing a person's hands typing on a laptop keyboard. In the foreground, a white Apple monitor is visible on the left. The person is wearing a white smartwatch on their left wrist. The overall scene is a workspace with warm lighting.

Advantages of MAIN INFO

- Patents / Progress**
- Product line**

MAIN INFO's Patents / Progress

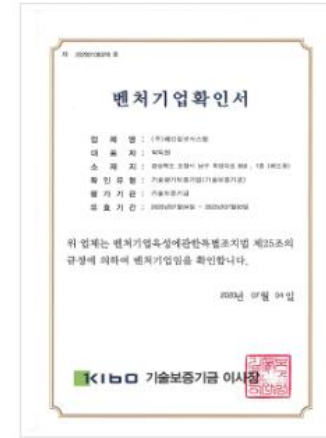
- We have the following patents and licenses that match the characteristics and concept that Main Info intends to proceed.
- Recently qualified into top seven in South Korea's Ministry of Land, Infrastructure, and Transport's contest exhibit <2020.09.24>



Citation from Ministry of SMEs and Startups



Citation from Minister of Science and ICT



Venture Business Confirmation



Membership of Export Association



Technology transfer from Samsung Electronics Co., Ltd.



Patent related to motion sensor



Patent on regional advertisement base charge discount



Customized ordering method for vehicle tuning parts



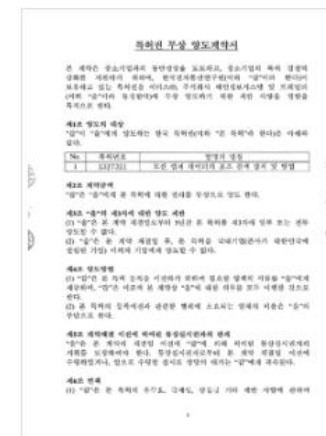
Certificate of corporate affiliated



CE certificate



M15 KC certificate



Technology transfer from ETRI

특허증

CERTIFICATE OF PATENT

특 허 제 10-1092378 호

Patent Number

출원번호 제 10-2011-0052886 호

Application Number

출원일 2011년 06월 01일

Filing Date

등록일 2011년 12월 05일

Registration Date



발명의명칭 Title of the Invention

금속-고분자 복합재를 이용한 탄소재료 및 그 제조방법

특허권자 Patentee

주식회사 메인정보시스템(171711-*****)

경상북도 포항시 남구 회망대로 859,1층 (해도동)

발명자 Inventor

등록사항란에 기재

위의 발명은 「특허법」에 따라 특허등록원부에 등록되었음을 증명합니다.

This is to certify that, in accordance with the Patent Act, a patent for the invention has been registered at the Korean Intellectual Property Office.



특허청

Korean Intellectual
Property Office

2020년 12월 31일

특허청장

COMMISSIONER,
KOREAN INTELLECTUAL PROPERTY OFFICE

김용래



QR코드로 현재기준
등록사항을 확인하세요



MAIN INFO applies for a new patent
in every 3 months and recently we
got approval for our patent for
graphene



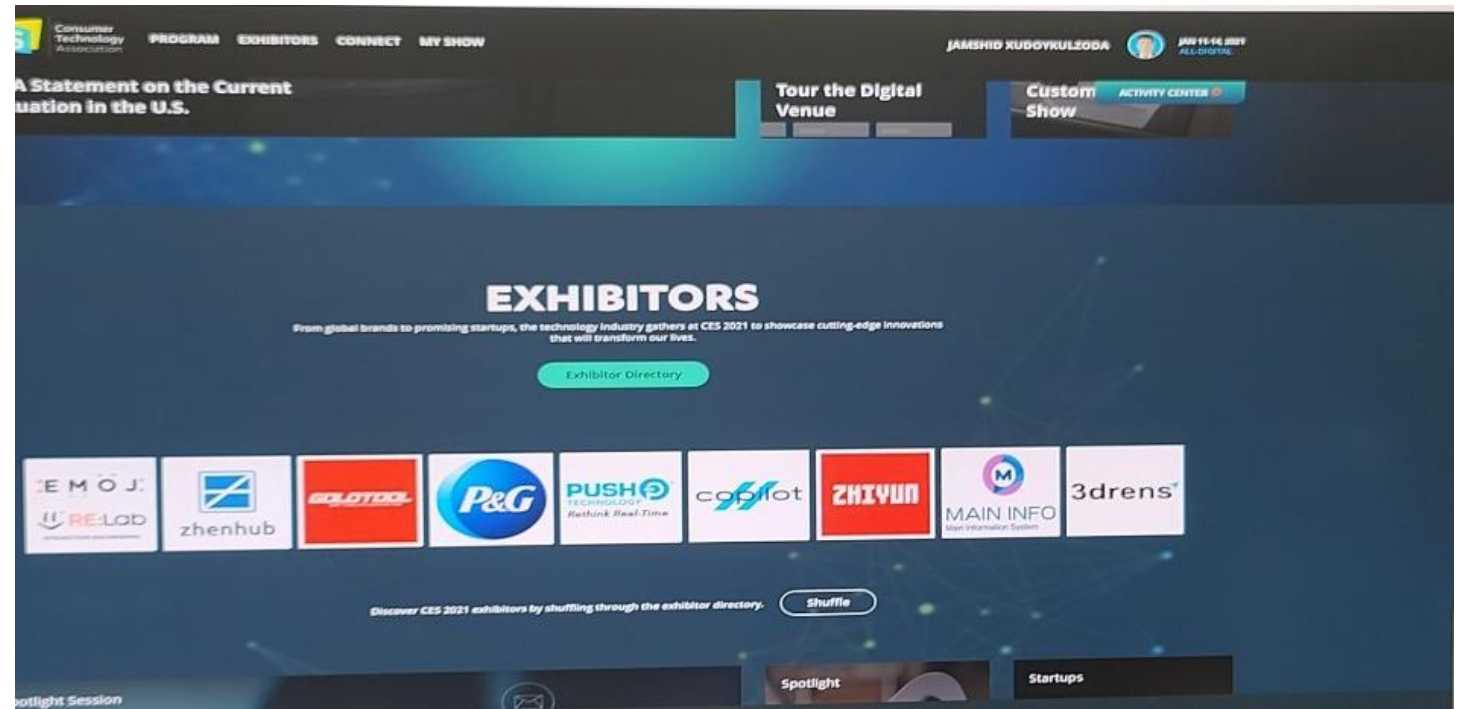
MAIN INFO regularly represented South Korea in big exhibitions



CES 2021



IFA 2019



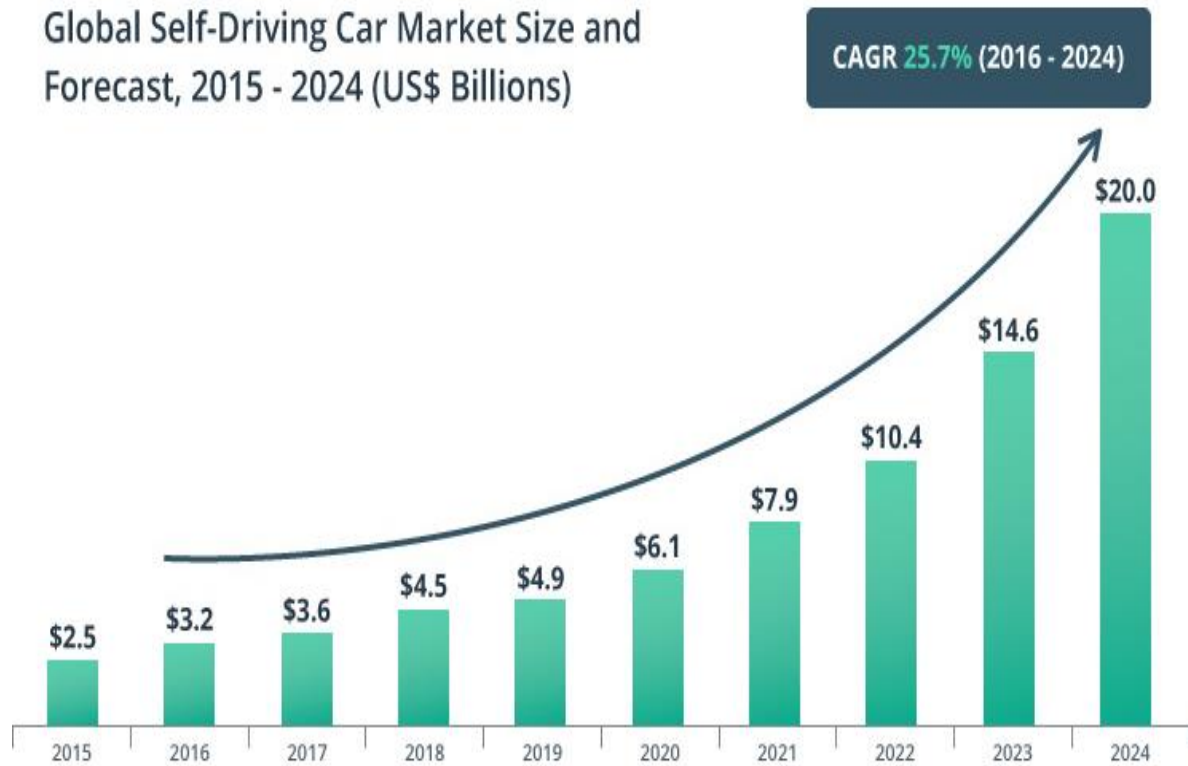
A close-up, shallow depth-of-field photograph of a person's hands working at a desk. The person is wearing a white smartwatch on their left wrist and is typing on a silver laptop keyboard. In the background, a white Apple monitor is visible, and another person's arm is partially seen. A blue rectangular overlay is positioned in the lower-left foreground, containing the text "Market Analysis".

Market Analysis

Market Analysis

- Our ultimate target is to become an automobile company by revealing the market status

Global Self-Driving Car Market Size and Forecast, 2015 - 2024 (US\$ Billions)





Data collection is an important milestone for autonomous driving

Importance of DATA collection Collecting data via HOLO NAVI

The first **steppingstone** in making an autonomous vehicle
And a driving advertisement platform.

The **Need** to find an efficient way of collecting data on the road.

The **Need** to find a cost effective way of collecting data on the road.

MAIN INFO plans to use an **Everyday tool** (smart phone) to achieve this goal.

MAIN INFO develop software / products that are efficient and cost effective so **Everyone** can use them to easily to collect data

MAIN INFO target market strategy



Automated aftermarket > MAIN INFO creates driving assistance devices that makes driving more safe and comfort, and collects data from driver's POV



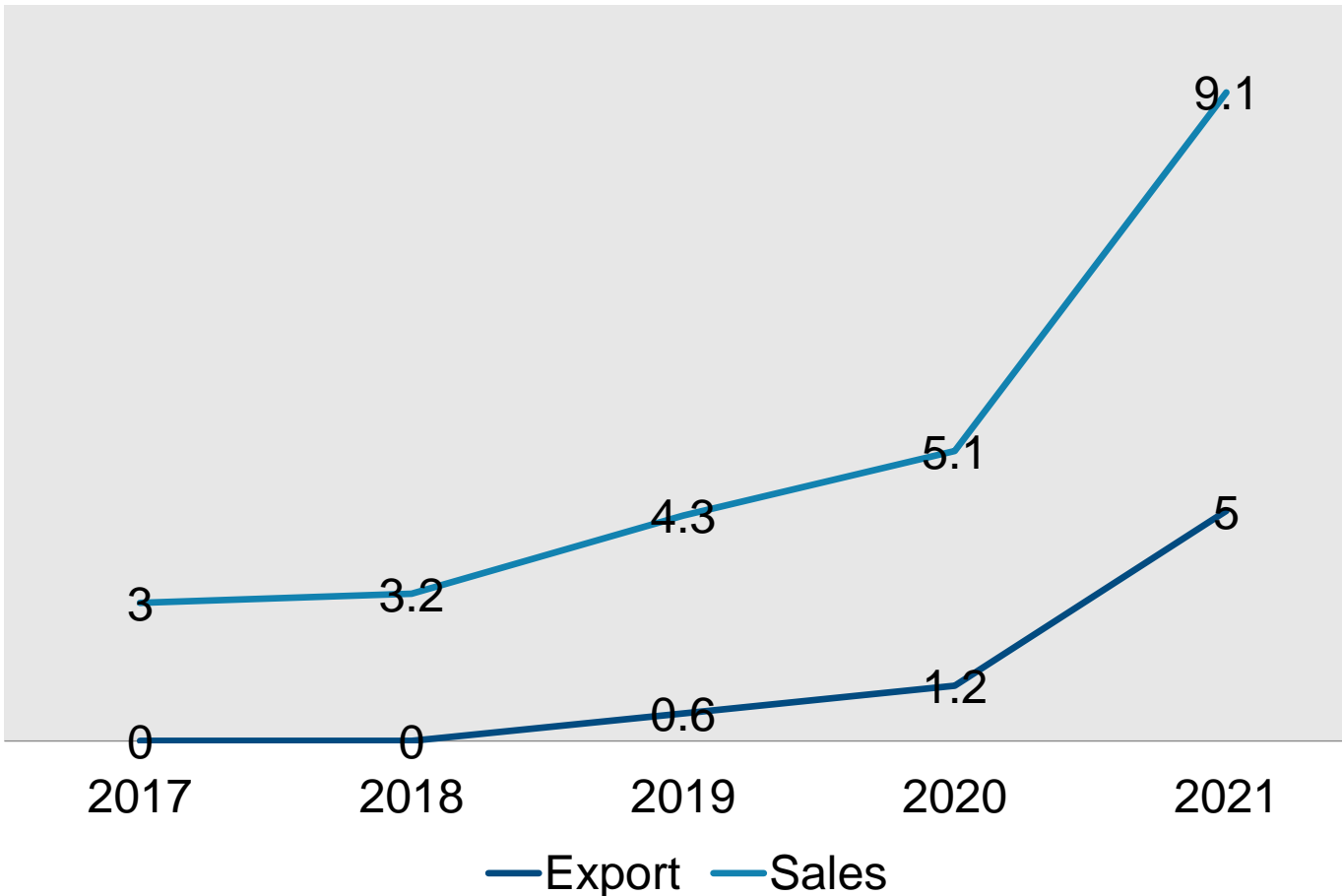
Tuning – MAIN INFO offers tuning solutions according to the needs of customers



Manufacturing (Before market) – MAIN INFO embeds its systems, devices while manufacturing.

Current Status

MAIN INFO's Current and future sales/export



2019년 01월 01일 부터	표준손익계산서 (일반법인용)	법인명	주식회사 메인정보시스템		
2019년 12월 31일 까지		사업자등록번호	506-81-86728		
(단위 : 원)					
계 정 과 목	코드	금 액	계 정 과 목	코드	금 액
I. 대손액	001	437,128,166	8. 외화환산손실	190	123,359
2. 제품매출	005	437,128,166	21. 기타잡손실	212	638,321
가. 국내제품매출	006	437,128,166	VIII. 법인세비용차감전손익	217	60,104,692
II. 매출원가	035	478,441,315	IX. 법인세비용	218	0
(2)제조원가	042	478,441,315	X. 당기순이익	219	60,104,692
2. 당기총원가(명세별)	044	478,441,315			
III. 매출총손익	066	-41,313,149			
IV. 판매비와관리비	067	25,957,702			
1. 급여	068	3,600,000			
가. 임원급여	069	3,600,000			
3. 보험료	078	1,634,871			
4. 복리후생비	079	624,058			
5. 여비교통비	080	3,426,490			
6. 임차료	081	4,919,513			
다. 기타임차료(리스료 포함)	084	4,919,513			
8. 유형자산감가상각비	086	1,925,506			
9. 무형자산상각비	087	1,760,222			
나. 기타무형자산상각비	089	1,760,222			
10. 세급과공과	090	1,430,510			
13. 차량유지비(유류비 포함)	093	174,240			
20. 지급수수료	104	4,674,696			
가. 국내지급수수료	105	4,674,696			
22. 소모품비	108	745,316			
23. 통신비	109	1,042,280			
V. 영업손익	129	-67,270,851			
VI. 영업외수익	130	136,491,437			
1. 이자수익	131	158,408			
4. 유가증권처분이익	134	8,186,809			
가. 단기매매증권처분이익	135	8,186,809			
24. 정부보조금	170	123,441,094			
28. 기타잡이익	174	4,705,126			
VII. 영업외비용	179	9,115,894			
1. 이자비용	180	1,956,376			
3. 유가증권처분손실	182	6,397,838			
가. 단기매매증권처분손실	183	6,397,838			



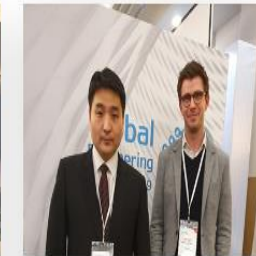
* 본 증명은 국세청 홈택스(www.hometax.go.kr)의 「민원증명」 서비스에서 「민원증명 원본확인」 메뉴를 통해 문서발급번호로 위·변조 여부를 확인하거나, 문서 하단의 마크드로 확인해 주십시오. 다만, 문서발급번호를 통한 확인은 발급일로부터 90일까지 가능합니다. (공문서를 위·변조하거나 행사한 자는 10년 이하의 징역에 처할 수 있습니다.)

* 본 증명은 홈택스(www.hometax.go.kr)에서 대면 온라인 서비스를 통해 발급된 증명서입니다.

MAIN INFO's MOU contracts



Economic delegation to Sweden
2019



Germany, Global Partnering Europe
2019



Economic delegation to Kazakhstan
2019



Economic delegation to Russia
2018



Economic delegation to France
2018



Eastern Economic Forum
2019



Thailand 4th Industrial Revolution Showcase
2019



Korea-Croatia Economic Cooperative Forum
2018

MAIN INFO's branch offices



MAIN INFO will be listed in the KOSDAQ soon. By investing in our company now, your Return on Investment (ROI) will be at least 200% in a year!

KOSDAQ 

Our product HOLO NAVI was created by understanding the principles of Einstein's theory of relativity

The world is 3 dimensional, however our POV is subordinate to a 2 dimensional screen

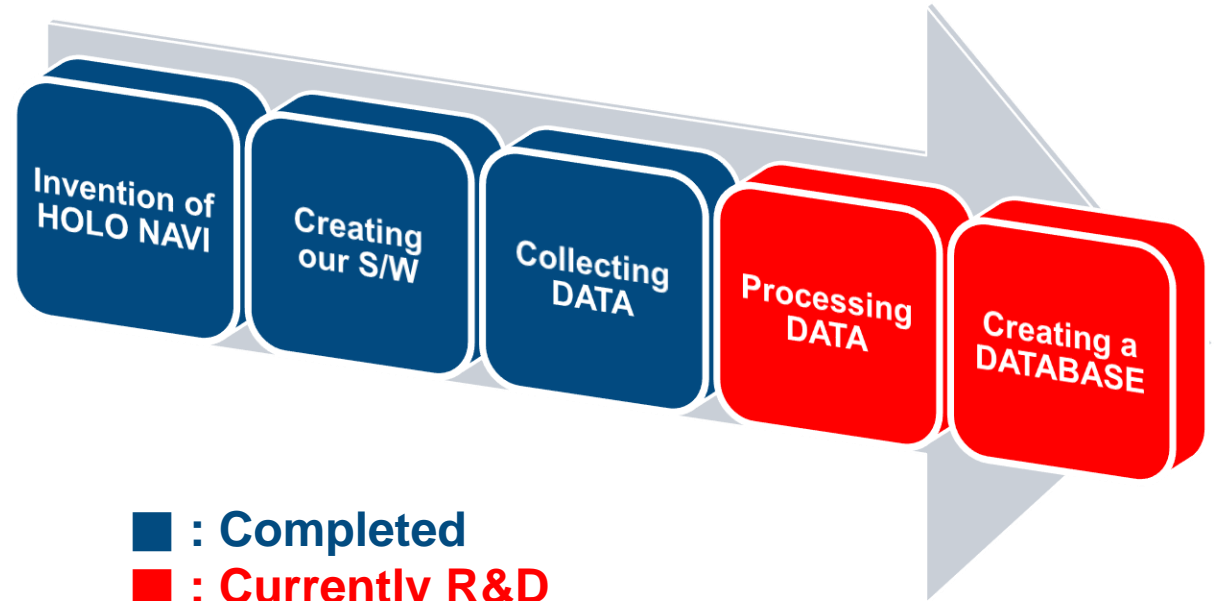
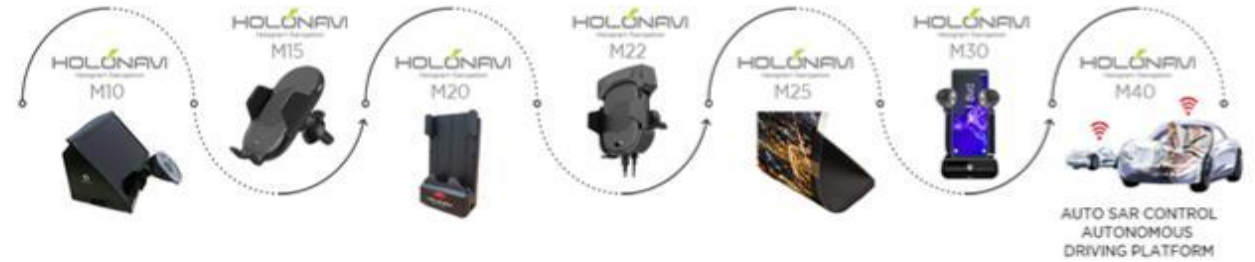
Our software/ hardware overcomes your limited 2 dimensional vision

We create new devices emerging from the fourth industry



DEVELOPMENT PLAN

You can enjoy and safely drive with HOLONAVI!



■ : Completed

■ : Currently R&D

MAIN INFO's Product line

HOLO NAVI M10

- HUD device
- No interference of sunlight through patented technology
- Able to easily mount smartphones to produce hologram-like image.
- Does not require additional components

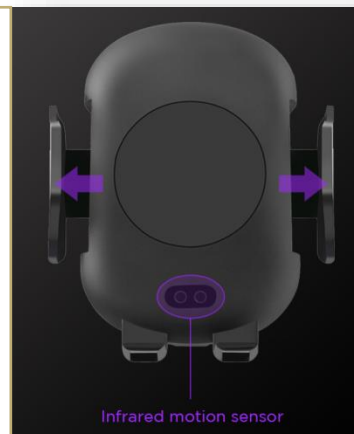


Domestic C Crowd Fun Funding

2017 DOMESTIC CROWDFUNDING
Sponsored by the Small and Medium Business Administration
Moama crowning funding 1st place (100 million won) !!

**Current
Exporting
Product**

Over \$5000



Infrared motion sensor

HOLO NAVI M15

- phone mounting device
- wireless high speed charger
- Automatic fixers grip phone via motion sensor
- Fixed supporters to prevent fall
- LED for notification (charging, fully charged)

MAIN INFO's Productline



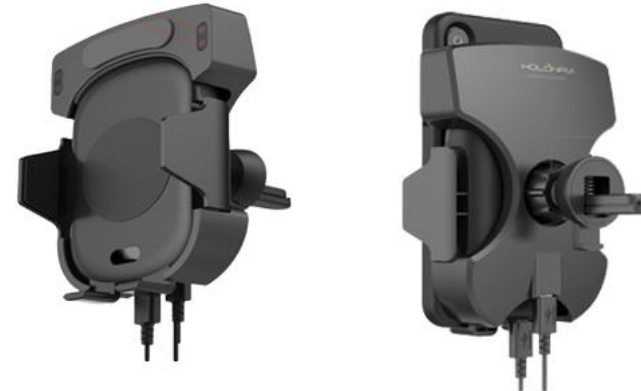
HOLO NAVI M20 (**MASS PRODUCTION NEEDED**)

- Defines where to place a mobile device
- Wireless high speed charge
- Uses motion sensors
example) right motion to deny call / next song / etc
- Software / app imbedded
(able to customize functions based on buyer's need)

HOLO NAVI M30 (**Looking for R&D partners**)

- Able to collect **DATA** on the road from the **driver's POV**
- Send the data to a cloud database via
WIFI / 4G / 5G
- Produce **advertisement** through hologram images, and voice

<Prototype design>





HOLO NAVI M20 has a big profit potential by Mass Production. We have plans to build the manufacturing facility in the Dung Quat economic zone. MAIN INFO visited and learned the zone in 2019 during “Vietnam – Korea Business Summit”

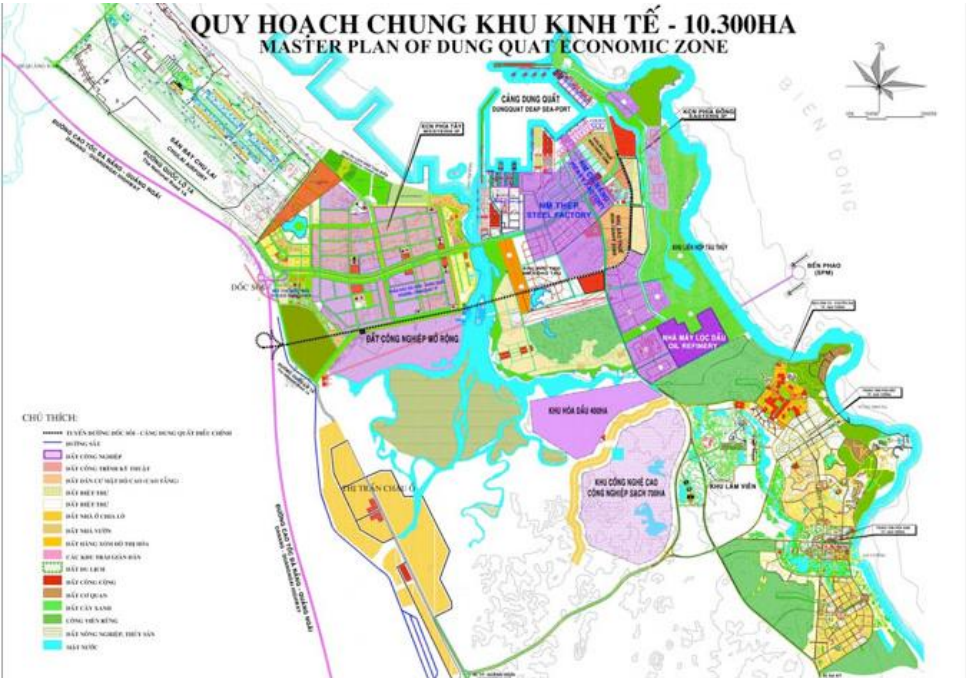


Figure 1. Master Plan of Dung Quat Economic Zone

MAIN INFO's Product line

HOLO NAVI M45 (Currently in R/D)

- In-car COVID 19 testing device
- Regular in-car body testing against COVID 19 and destination suggestions according to the available infected people's itinerary
- Keeping track of the people who get vaccinated against COVID 19


<Prototype design>



발급번호 : 5-5-2020-062703619



출원사실증명원 CERTIFICATE OF APPLICATION

출원인 Applicant	성명 Name	주식회사 메인정보시스템 MAIN INFORMATION SYSTEM M Co.,Ltd.	주민번호 Residence No	171711-0*****
	주소	경상북도 포항시 남구 최남대로 85 9,1층 (해동동)	전화번호	054-274-1003
발명자 Inventor	성명 Name	박익현 Park, ik-hyen	주민번호 Residence No	751223-1*****
	주소	경상북도 포항시 북구 천마로72번 길 33, 101동 2202호(양덕동, 양덕 삼구트리니티)	전화번호	054-274-1003
출원번호 Application Number		특허-2020-0174913 PATENT-2020-0174913	출원일자 Filing Date	2020년 12월 14일 DEC 14, 2020
발명(고안)의 명칭, 디자인을 표현할 물품, 상품(서비스업)류 구분 Title of Invention, Product(s) Embodied in Design, or Classification of Mark		코로나19 확산방지와 치료를 위한 차량 내 데이터수집솔루션 Data Collection Solution for Corona 19 in-vehicle for Diffusion Prevention and Treatment		
용도		확인용	IPC 분류	
최종처리상태			최종처리일	
심사청구유무		N	심사청구일자	
<p>위 사실을 증명함. This is to certify that the above applicant has filed as stated in this certificate at the Korean Intellectual Property Office</p> <p>2020년 12월 16일</p> <p>특허청 COMMISSIONER</p> 				

※ 본 증명서는 인터넷으로 발급되었으며, 특허청 홈페이지(www.kipo.go.kr)의 '특허-증명서 발급' 메뉴를 통해 발급번호 또는 문서하단의 바코드로 내용을 확인·변조 여부를 확인해 주십시오. 단, 발급번호를 통한 확인은 90일까지 가능합니다.

MAIN INFO has been developing flexible & rollable display by using graphene material Recently received requests from big corporations such as BMW, Volkswagen for this product.

Main info 기술 문의 드립니다 >

 @bmw.co.kr

나에게 ▾

안녕하세요 대표님

BWM Korea Technology Scout 김아람 매니저라고 합니다.

저희 Technology Scout department에서는 한국에서 발명된 혹은 연구중인 새로 개발된 기술들을
독일 본사에 트랜스퍼 시키는 중간 다리 역할을 하고 있습니다.

이번 CES2021리스트를 보고, 회사 웹페이지에 들어가서 보니 HOLONAVI M25는 롤러블 디스플레이를 접목시킨 제품을 준비중이라 되어 있어 연락드리게 되었습니다.
혹시 연구 중이신HOLONAVI M25및 미래 제품군에 대해, 좀더 자세한 소개 자료를 받아볼 수 있을까요?

문의사항이 있으시다면, 전화 또는 메일 언제든지 부탁 드립니다.
감사합니다.

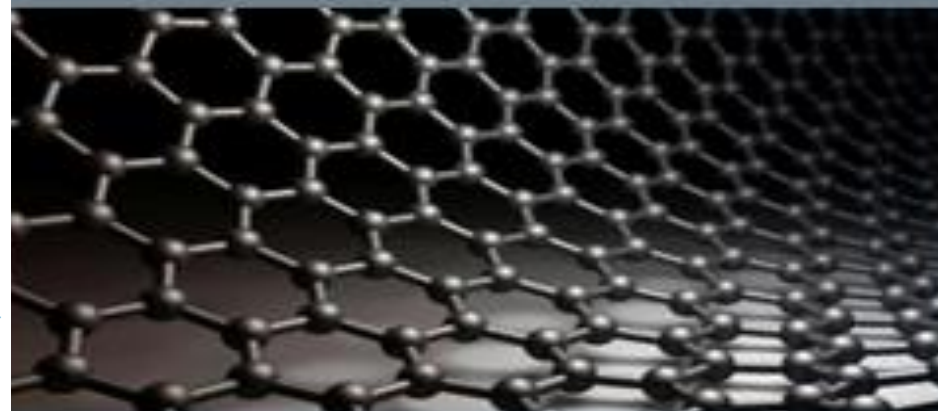
Best regards,
Aram

--

BMW Group
Korea
Aram Kim
R&D Center Korea / Technology Scout

11F State Tower Namsan
100 Toegye-ro, Jung-gu,
Seoul, 04361, Korea

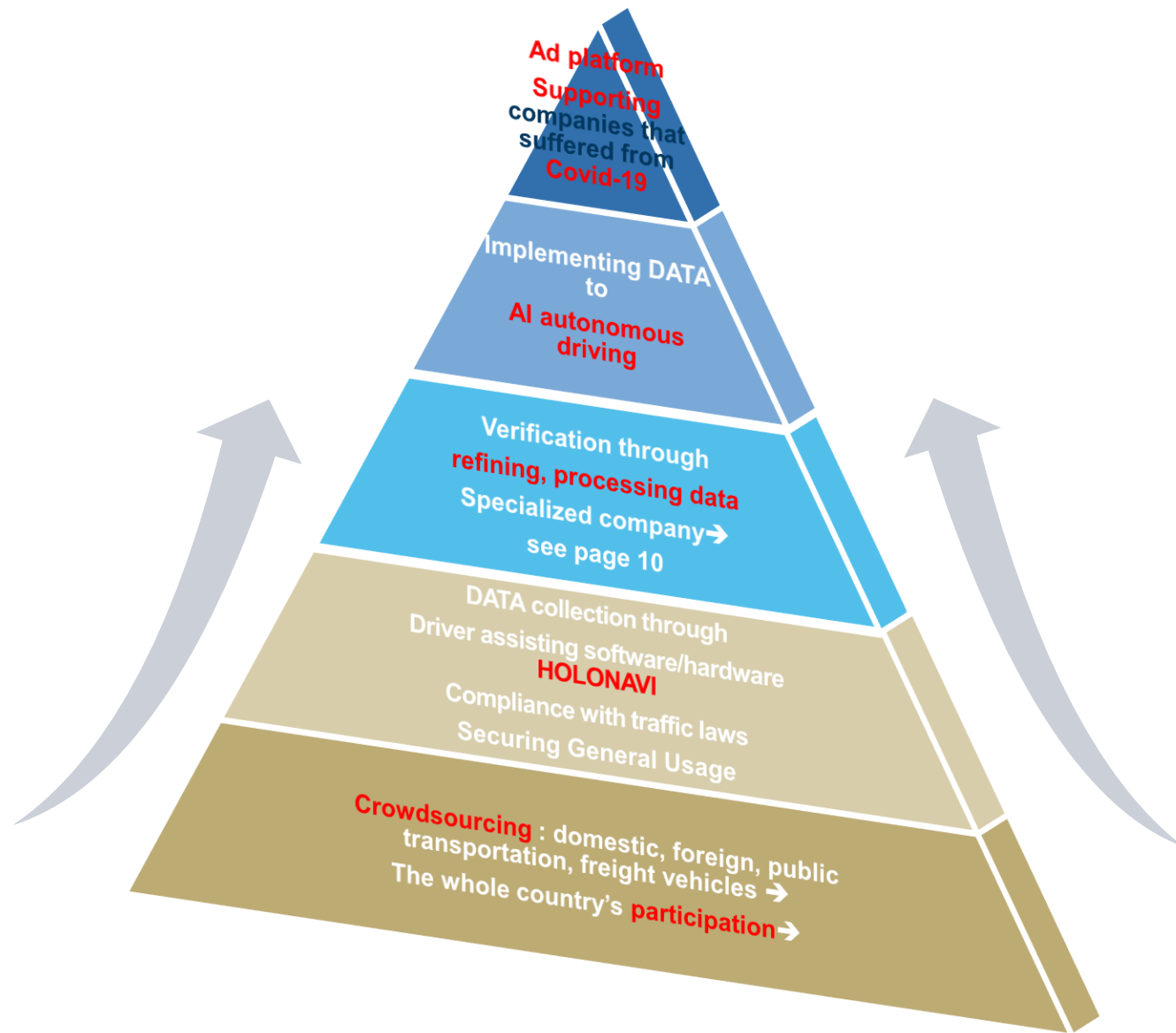
Tel: +82 2 6321 7532
Fax: +82 2 3444 5170
Mail: Aram.kim@bmw.co.kr



A close-up, shallow depth-of-field photograph of a person's hands working at a desk. The person is wearing a white smartwatch on their left wrist and is typing on a silver laptop keyboard. In the background, a white Apple monitor is visible, and another person's arm is partially seen. A blue semi-transparent rectangle is overlaid on the left side of the image, containing the text "Business overview".

Business overview

Business overview



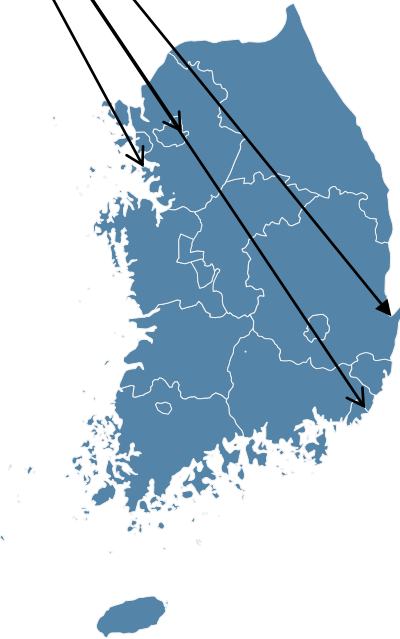
Collaborating with our supporting (data processing) companies.

Ai**, r**, dat***, livi***, etc

With our supporting companies :

We will
process, refine, and verify
our collected data

Use the data for
Autonomous driving
&
Advertisement platform
for drivers and passengers





Specifically

What?

How?

Why MAIN INFO?

We will

Use **2 camera lenses** on the back of a smart phone

→ Pinpoint images from driver's POV / save data

→ Obtained a Technical Transfer Protocol from P*** university concerning this technical method.

Add a functioning **C-ITS and WAVE sensor** on our HOLO NAVI software

→ Boost driving safety.

→ Connect our vehicles to create a data hub.

→ Share and send information throughout our vehicles.

Add **motion/hologram** functions

→ Boost driving efficiency and interest.

Tesla has been heavily relying on Vision and going against LIDAR sensors.
At the same time, all the other companies use Lidar and do not seem to care. Elon Musk even said:

LIDAR is a fool's errand... and anyone relying on LIDAR is doomed. — Elon Musk

- **LiDAR is more expensive than using camera and TESLA is also using cameras rather than LiDAR**

A photograph of a person's hands typing on a white keyboard at a desk. In the background, there is a white Apple monitor with the logo visible, a white mouse, and a white mug. The person is wearing a blue and white striped shirt and a white smartwatch. A semi-transparent blue rectangular box is overlaid on the left side of the image, containing white text.

Team
-Current status

The Team

CEO: Ik hyun Park

2014.01 – Main Info CEO

2016.10 – TIPA Project evaluation
committee

2017.12 - Ministry of Land, Infrastructure
and Transport Autonomous Vehicle
Subcommittee

2020.10 - Small and Medium Business
Technology Information Promotion
Agency Small and Medium Business
Technology Development Support
Project Evaluation Committee

Researchers

Soo young Bae: Master's degree in Mobile
engineer science

Chae yeon Kang: Bachelor's degree in
automotive engineering

Jamshid Xudoykulzoda: Master's degree in
MBA(Master of business administration)

Seung ho Kim: Bachelor's degree in Aviation
Drone department

Abroad Marketing team

Young shim Jo: Bachelor's degree in
Japanese translation

Jae woo Kim: Bachelor's degree in English

Currently recruiting oversea Engineers

In following countries: Europe, Russia, India,
Pakistan



The Team

MAIN INFO **has**

Patents and patented technologies specifically **aimed** at our goal product

Young researchers (**Korean and foreign**) capable of understanding new technology

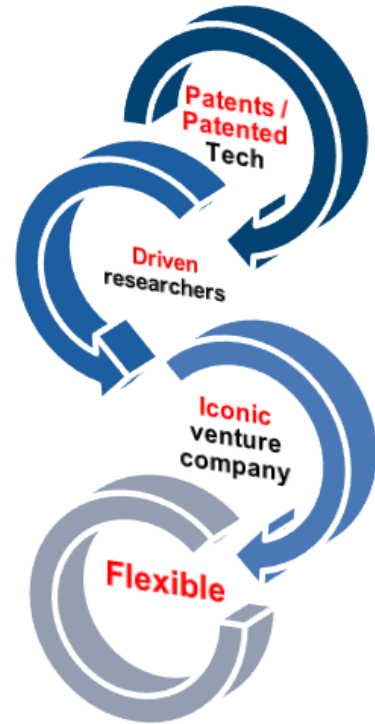
MAIN INFO **is a/an**

Iconic company of Pohang, Korea

Very **flexible** venture company

MAIN INFO **will**

Reach our **ultimate result**



A person is working at a desk. In the foreground, a hand with a white smartwatch is typing on a laptop keyboard. In the background, another hand is visible near a white mouse. To the left, a large Apple monitor is partially visible. The scene is brightly lit, suggesting an office or home workspace.

Conclusion
-Proposal
-How to contact us

Contact us (Our proposal)

HOLONAVI M30 production cost

Total cost: \$5M+

Investments

Labor cost:

Funding

Promotion cost:

Partnership

Material cost:

Collaboration projects

R&D cost:

Certification/consulting/market cost:

(further information about our product will be disclosed after certain contracts)

Find out more about us at our website

Website

<http://maininfo.co.kr>

CEO Ik Hyun Park

Address

859, Huimang-daero, Nam-gu, Pohang-si,
Gyeongsangbuk-do, Korea

Mobile number

+82 010 7676 0847

Office number

+82 054 274 1003

Company email

maininfo777@gmail.com / rokmc748@chol.com





Autonomus driving is one of the core fields of the 4th Industrial Revolution and many big corporations are conducting R&D in this field by spending millions of dollars

It is possible to collect a lot of data in a short period of time by using crowdsourcing and living lab

Founded in 2014, developed progressively, and succesfully many patents related to our field

It is possible to achieve autonomous driving ahead of others by working with Main Info

Let's conquer the market together

Thank you for your time