Contents

▶ COMPANY INTRODUCTION

Company Overview

Dash Cam, Navigation No.1 Leading Company

INAVI SYSTEMS. INC is working to be the **Total Mobility Platform Service Leader in Korea** With our technology and experience of **25years.**

Company Introduction

NAME	THINKWARE / INAVI SYSTEMS Corporation
CEO	Lee, Heung-Bok / Seong, Deuk-Yeong
Founded	26 March, 1997
Capital	$4,079,594 (USD)
Number of Employees	510 (FY2020 1Q) - (THINKWARE Group)
Website	http://www.thinkware.co.kr http://www.inavi.com http://inavisys.com https://www.fivepin.co.kr

Main Business - H/W, S/W

Hardware

GPS Car Navigation | Dash Cam | Tablet PC

Software

Digital Map | Mobile | AR/ADAS

Technology – Engines

Engines

DP Engine

- Able for 2D, 3D, aerial photograph-based Full 3D response
- In 3D, able to display building modeling data, elevated roads, terrain elevations
- Available to response for both non-telecommunication type (Local Memory based) and telecommunication type (Server based)

Search Engine

- Available for Integrated Search, Old/New Address Search, Initial Consonant Search, Around-Route Area Search
- Available to response for both non-telecommunication type (Local Memory based) and telecommunication type (Server based)
- In case of telecommunication type, urgent POI update & single update available

Navigation Engine

- Supports basic navigation such as shortest distance, recommendation, and free and reflects traffic information based on TPEG
- In case of communication type, able to search and reflect the real-time traffic information generated every 2 minutes and 30 seconds.
- Available to response for both non-telecommunication type (Local Memory based) and telecommunication type (Server based)

Guide Engine

- Available to response for both non-telecommunication type (Local Memory based) and telecommunication type (Server based)
- Nationwide base map, driving lead support

Real-Time Traffic Information Engine

- Real-time traffic information is generated and serviced every 2.5 minutes without interruption by using real-time driving GPS logs collected from its telecommunication type Navigation, communication type BB, and affiliates.
- In case of our communication type Navigation, the search engine uses this to search traffic information.

Hot Place Extraction Engine based on Visit Score

- Measures and statistics the popularity of 5.8 million POIs provided by the company using logs such as user searches and navigation.
- Currently undergoing a daily update and providing POI additional information to its Navigation and Web services.

ETC.

- In case of telecommunication type, able to provide gas price information, EV charging station information, weather information, etc.

Data & Solution

Maps Contents
- Navigable road network data(car, bicycle, on foot)
- Dangerous area DB
 (anti-jaw, weight/height limit, sharp curve, etc.)
- National map background data
- Safe driving data
- Address information
- Intersection junction schematic

3D map Contents
- Landmark building 3D modeling data
- Highway 3D modeling data
- Aerial texture-based aviation3D data
- DEM/DSM data for terrain/texture

Mobility Data
- Dash-cam users' GPS data
- Wireless network based navigation
- Predictive traffic information data
 (based on user driving information)
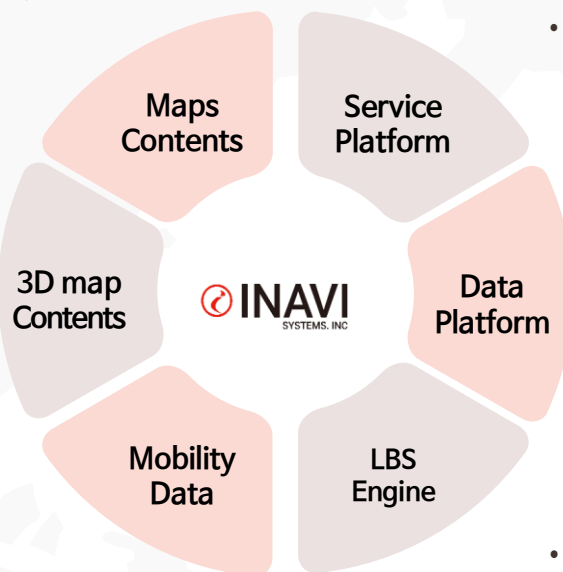
Service Platform
- Real-Time Traffic Analysis Solution
- Predictive Traffic Analysis Solution
- Image tiled MAP API
- Vector tiled MAP API

Data Platform
- RAM(Real time Analysis & Monitoring) Solution
- RTGA(Real Time Geospatial Analysis) Solution
- VS(Visit Score&Rank) Solution

LBS Engine
- Road Network Route Engine
- Data Search Engine
- Positino Guidance Engine
- 2D & 3D & Aerial Photograph Display Engine
- Map-Matching Engine(GPS & Sensor)
- Traffic Provide Engine

Business Portfolio – Map

INAVI SYSTEMS. INC

Platform

✓ Having **the most # of Big-data** and the only company having **aerial-map** produced by own.

✓ **Developing connected-A/M platfor**m for connecting car and telecom. companies.

✓**Operating National Bigdata Platform** Transportation Sector.

✓**Building Maps API** with Cloud company, NHN TOAST Inc.

✓ Extending Mobility platform business such as '**Last-mile-Delivery**'.

✓ **Expanding the application business** based on our own mobile Navigation app. called '**INAVI AIR**'.

Solution

✓ Having solution of our **own AR graphic 'Extreme AR'**

✓ Equipped with the largest # of ADAS in S. Korea. and have its own **patents at both domestic and abroad**.

✓In progress of **advancing tech. of ADA**S ,such as AI-based drowsy driving & sign-board recognition.

✓**Expanding supply** of automotive, commercial, and telecommunicator solutions.

✓**The first company** commercializing products equipped with AR/ADAS solution in S.Korea.

Main features of ADAS

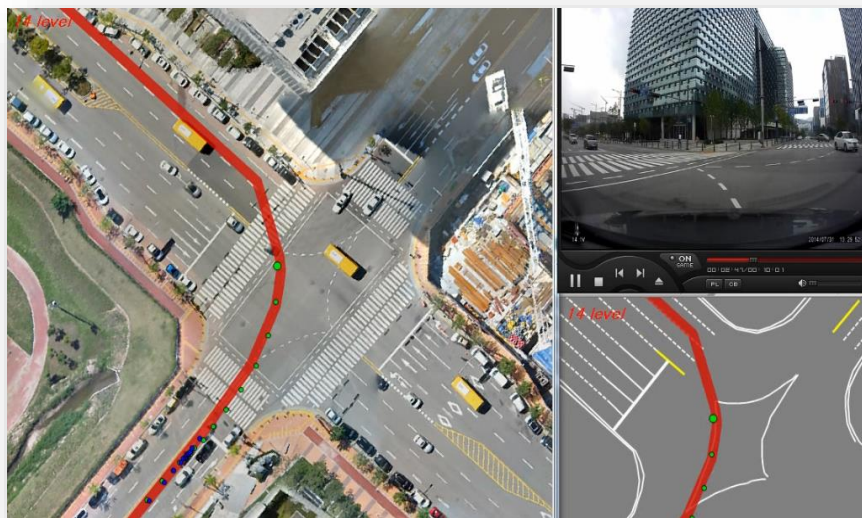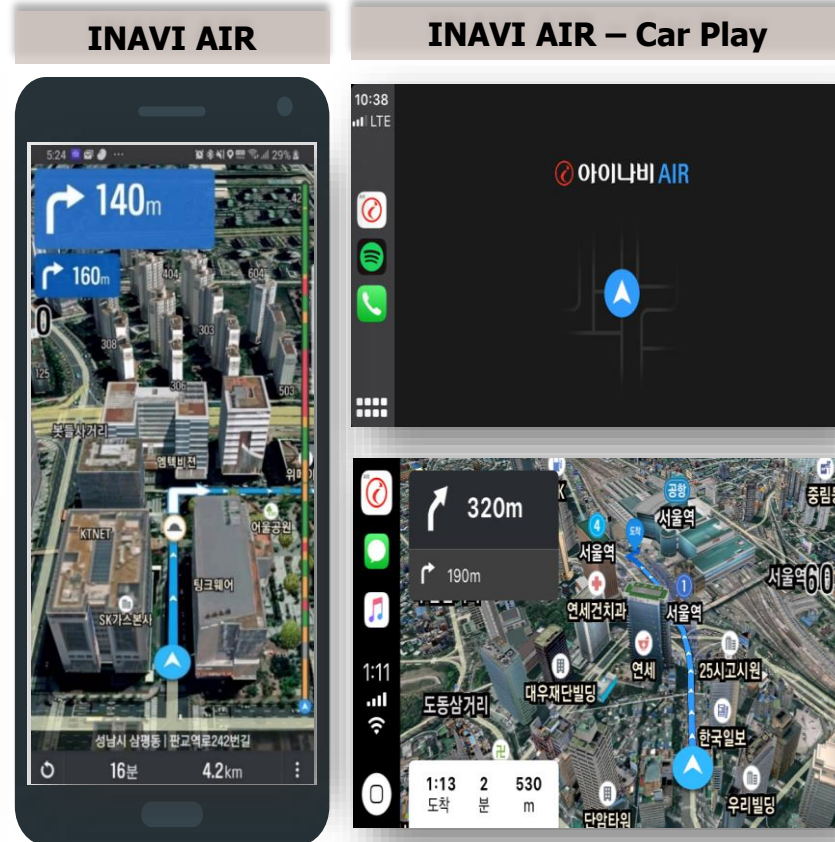[PCWS]   [FCWS]   [FVSA]   [CSWS]   [TLCA]   [LDWS]

Business Portfolio – Map

INAVI SYSTEMS. INC

❯ On-Dash / In-Dash (PND)

Extreme AIR 3D

Extreme AR

High Precision Map Data (HPMD)

❯ "INAVI AIR" Mobile APP

INAVI AIR

INAVI AIR – Car Play

- Support Apple Car Play "iNavi Air" with 3D map
- Various modes selectable: HUD mode, navigation mode (supports both 2D and 3D)
- Provide differentiated functions such as air mileage, group driving (location sharing), and open POI

Business Portfolio – Dashcam

INAVI SYSTEMS. INC

Domestic

✓ The **#1 M/S of Dash**cam in S.Korea

✓ **Extending new B2B-business-partnership** with Car-maker companies.

✓Extending new devices line-up by launching **New devices of Commercial vehicle and motorcycle.**

✓ Commercializing the first "**Real-Time Connected Technology**" in S. Korea.

✓ **Building an intelligent connected platform** by utilizing AI/Cloud technology

Abroad

✓**Exporting to 30 countries** , Asia & North America, etc. .

✓ **No.1**Company having **advanced Tech of dashcam** .

✓ Extending B2B business to Mobility market, **Car-maker, Rental-car, & A/M market.**

✓ **Supplying to Global supply chains** for **B2C business.**

✓ Planning to **launch new 'Connected-service'** by having partnership with local telecom. & Insurance Company.

Best selling line-up

[QUANTUM 4K]   [QXD5000]   [QXDMEGA_4CH]   [Q800 Pro]   [U1000]   [F200]

Our Business Partnership

Manufacturers
- ■ HYUNDAI Motor – Selected preferred partner
- ■ SSANGYONG MOTOR, NISSAN, FORD, etc.
- ■ Renault etc. Map Platform, etc.

HYUNDAI | SSANGYONG | NISSAN | Ford

Telecommunication Companies
- ■ KT/LGU+
- ■ Provided mobile navigation, map platform S/W
- ■ Designed 5G Architectures

kt | LG U+ | SK telecom

Portal
- ■ Provided Map Data, Real–Time Traffic
- ■ Maps API Center

NAVER | NHN ENTERTAINMENT

Government
- ■ Provided Map Data, Map contents
- ■ Operating government ITS Center
- ■ Designed Korea–Standard Guide for ITS (Intelligent Transportation Systems)

MOLIT Ministry of Land, Infrastructure and Transport | Korea Expressway Corporation | Ministry of the Interior and Safety
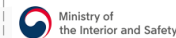
MaaS (Mobility as a Service)
- ■ Provided Maps API, Navigation SW and Technologies
- ■ Car sharing, ride–hailing system, mobility sharing services etc.

Tmoney | 42dot | KST Mobility

INAVI SYSTEMS. INC

INAVI
SYSTEMS. INC

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We are always prepared to be your partner.

Thank you!