

Intelligent geo-spatial information service company

MuhanIT Business Introduction

2022. 11

Part 1.

Company

CEO Message

Mission/Vision

History/Revenue

Partners

IP Rights

Awards/Certifications

Press Release

MuhanIT innovates geo-spatial information product constantly for anyone for can easily use.

In our 4th industrial revolution, we face up the demand of digital twin and metaverse service. especially during Covid and digital transformation era, Geo-Fusion industry has grown with geo technology.

Combination of IT with field knowledge strengths the industry to concern our future needs.
The world we live in is changing and we are following.

MuhanIT's SW called <AiMAPS>, providing automation of 3D modeling and air traffic management of drones which are **our core-technology in Geo field, also preparing <Site Reality Platform>** for each industry.

We provide from our technologies based on ICT experience and knowledge to service that's customizable that fits the variety of area.

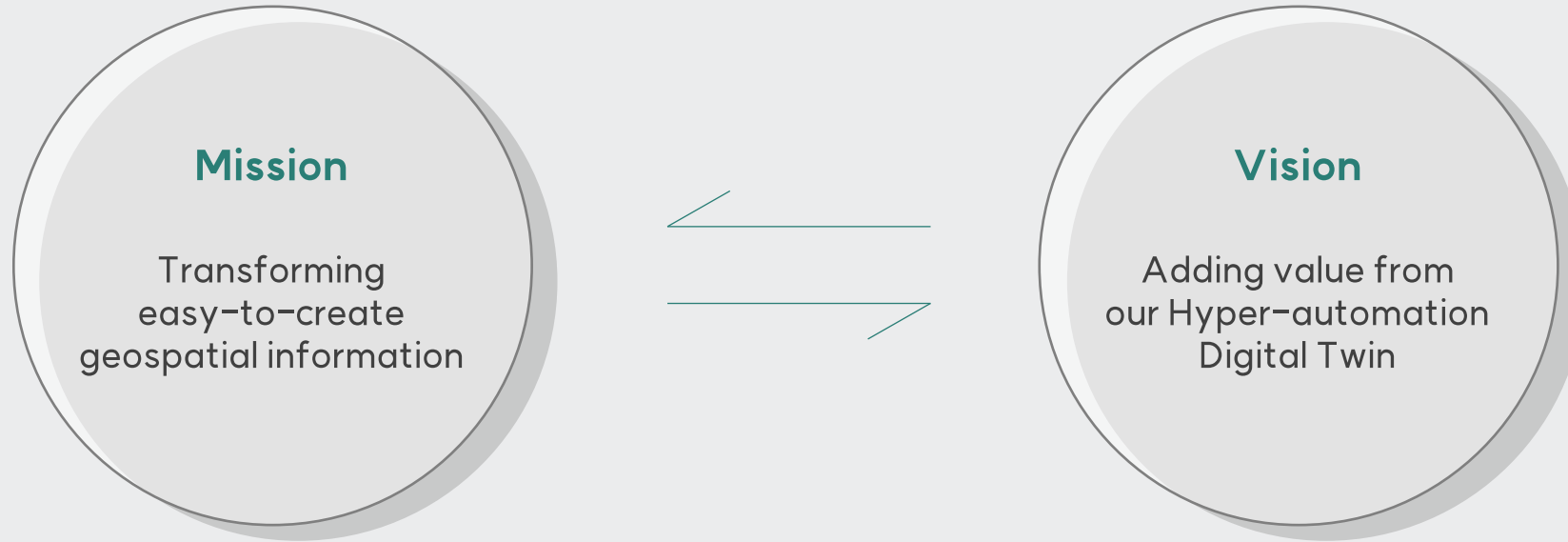
With our partners, working to be the **"First Mover"** of this industry with sharing social responsibilities and growing together.
Please interest yourself and support MuhanIT in the future.

Thank you.

CEO
KyungRok Bae



MuhanIT, a company specializing in intelligent spatial information,
Based on change and innovation, we will do our best to meet your needs



Creative Mind

Providing the right solution from the creative mind



Leading Future

Leading the technology from our new ICT skills



Sharing Growth

Customers, partners, and Employees Everyone grows up



Customer Experience

Providing the right solution from our customer needs

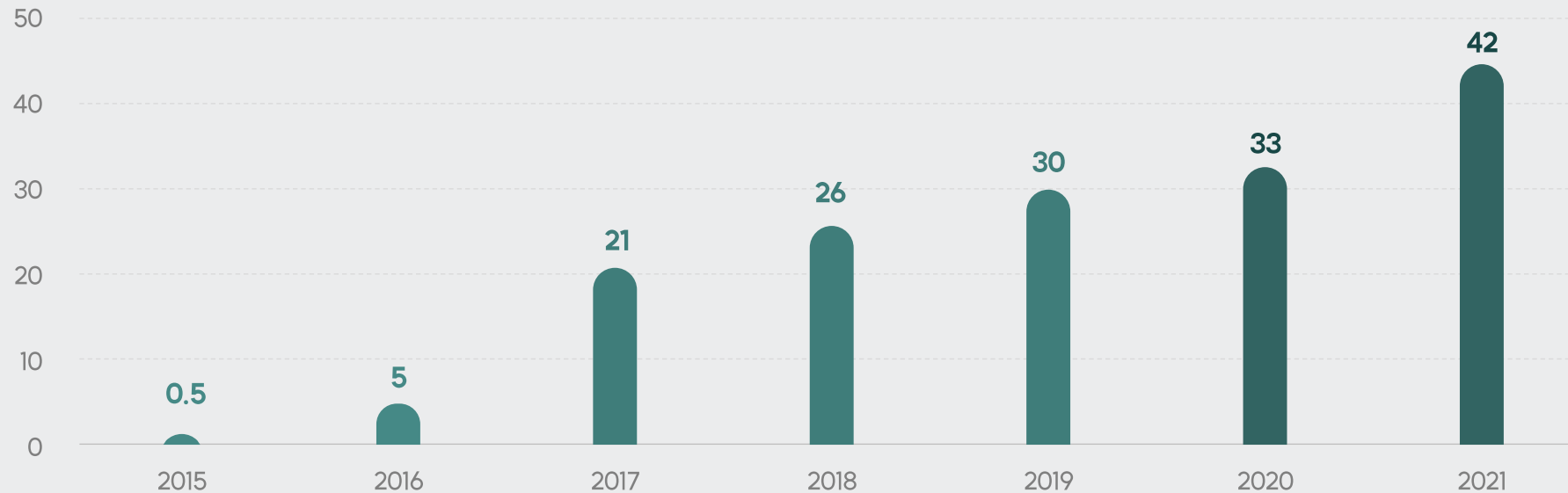
MuhanIT forwards until everyone fulfills and overcome their dreams



2022	10	AiMAPS 3DMapper Product Launch
	06	RAPA, Dev of new kind metaverse platform and service_Metanomics platform
	03	ATC+_Dev of 3D scanning for safety of autonomous vehicle
2021	03	KIAST, Drone law sandbox and test-bed project
	02.	Patent_land management from geo-spatial information using AI
	01.	Patent_building up data of land information and analysis
	02.	MOU with XBStation, EGIS
	01.	2022 TOP 100 To-Watch AI company
2020	12.	AiMAPS EWMS v1.0 GS 1st grade certification
	08.	Patent_road scanning footage matching service system from personal vehicle
	06.	CR_disaster risk management total monitoring system company
	05.	KSGIS_technology part awards
	02.	CR_AiMAPS
2019	02.	MOU with Gwangju Metropolitan City
	12.	2020 ICT Grand Prize Winner Award for Excellence in Intelligent Information
	08.	CR_drone sensor viewer, AI analysis platform
	07.	CR_Field Investigation System Using Smartphones
	06.	Oversea construction certified
	04.	Artificial Intelligence Drone Research Institute established Seoul Branch
2018	03.	CR_Geo AI facilities for land infrastructure
	01.	Registration of information and communication construction business
	12.	Patent_Pavement Damage Analysis System and Analysis Method
	11.	2019 special award for Happy Mid-Term Management
	10.	Surveying of underground facilities business Act.
2017	09.	Ultra light vehicle business Act.
	08.	GIS business Act.
	04.	Patent_surveying system to calculate altitude using drones
	01.	Selected for Youth-friendly Small and Medium Enterprises
2016	12.	Achieved Inno-Biz certification
	09.	Joined Korea Geospatial Information Industries Cooperative
	07.	Certified as Corporate R&D Center
	02.	CR_PMS planner
2015	06.	Certified as woman biz company
	05.	Achieved venture business certification
	04.	CR_Field Planner
2014	03.	CR_Greeda
	03.	Agreement of manpower training and growth in strategic area
2013	12.	Surveying Business Act.
	12.	Establishment of an enterprise-affiliated research institute
2012	12.	Industry-Academic Cooperation
	11.	System integration service business Act.
2011	11.	Established MuhanIT

Established in November 2015, grown to be the specialists in geo-spatial information.
We are expanding our business by establishing research institutes and collaborating with our partners.

Muhanit's annual revenue (unit - 100M Won)



Partners and key customers with MuhanIT

Partners



Clients



Intellectual Property Rights (Patent/Copyright)

MuhanIT covers intellectual property in all areas such as AI analysis, 3D Modeling, Drone Control, IoT etc with sustainable R&D



Major Patent

10-2376912	Land management from geo-spatial information using AI	10-1915294	Measurement System for the Height of Ground Geography Using Drone
10-2271608	Recommendation System for Road Repair Method Based on Artificial Intelligence for Road Life Extension	10-1892454	GEO advertisement and method on map information
10-2376921	Database construction device and method for analyzing land status	2021-0114417	Road scanning footage matching service system from personal vehicle
		10-2020-0005623	Pavement Damage Analysis System and Damage Analysis Method



Major Copyrights

C-2021-009921	AI Crack Analysis System for Asphalt Pavement based on Mobile (AICAS)	C-2020-010809	AI-based GeoAI facility reading Agent for National Land
C-2021-009886	Construction Quality Management System	C-2019-011840	Potholes monitoring Planner
C-2021-009885	Mobile Construction Site Support System (MCQCS)	C-2019-010902	Road Sinking Management Planner
C-2021-009884	Asphalt Mixture Quality Management System (AQCS)	C-2019-010749	ICT-based Road Pavement FWD Reverse Analysis Program (sFWD)
C-2021-009883	Maintenance Method Recommendation System (PMRS)	C-2019-010748	ICT-based Road Pavement FWD Reverse Analysis Program (iFWD)
C-2020-038906	Almaps tLN	C-2018-004229	PMSPlanner
C-2020-038905	Almaps tMN	C-2017-010351-2	Greeda
C-2020-030785	Greeda Viewer	C-2017-010350-2	FieldPlanner
C-2020-013564	Field Survey System Using Smartphones (SPSS)		

MuhanIT's product performance are consistently recognized by leading trusted organizations



Major awards/certification

Major awards/certification history for MuhanIT from 2021 to 2022



ISO Certification

ISO 9001, ISO 14001

2022.07



2022 Emerging AI+X Top 100 Company

NEW/Emerging Market Division

2022.01



Good Software (GS) Certification Grade 1

Early Warning Management System V 1.0

2021.12

스마트
건설
챌린지
2021

Smart Construction Challenge 2021

Winner of Smart Safety

2021.11

We are working hard to achieve various external activities and business results

[View all Articles](#)

ISO9001 and ISO 14001 certification are obtained at the same time

MUHANIT announced on the 11th that it has simultaneously obtained the International Standard for Quality Management (ISO9001) and the International Standard for Environmental Management (ISO 14001) established by the International Organization for Standardization (ISO).

07-24-2022

MUHANIT-EGIS MOU signed... Agreement for the Joint Use of Digital Twin Platforms

This MOU aims to set the basic direction and main contents of cooperation and partnership between the two companies in promoting cooperation and joint development based on technology and cloud platforms owned by MUHANIT and EGIS, and to enhance joint profits...

03-17-2022

MUHANIT selected by AI Top 100 companies in 2022

MUHANIT announced on the 25th that it was selected as the 2022 Emerging AI+X Top 100 organized by the Intelligent Information Industry Association, a subsidiary of the Ministry of Science and ICT. Among them, MUHANIT was...

01-28-2022

'Aimaps-EWMS v1.0' GS certification grade 1 obtained

MUHANIT announced on December 27 that its disaster early warning monitoring system, "Aimaps-EWMS v1.0 (Early Warning Management System), has obtained the first grade of GS (Good Software) certification from the Korea Information and Communication Technology Association (TTA).

GS certification is a system that certifies software quality given by ...

01-17-2022

NDA signed with Israeli company HIGH LANDER

MUHANIT announced on the 1st that it signed a memorandum of understanding (MOU) with HIGH LANDER (Israel), a global drone integrated control and drone delivery company, and signed a confidentiality agreement (NDA) with the launch of the cloud-based drone operation platform "AiMaps+" through technology verification and service development for seven months...

03-08-2022

Introduced as a disaster safety company in the 2022-2024 SME Technology Roadmap

MUHANIT was introduced as a company in the disaster safety sector in the "2022-2024 Small and Medium Business Technology Roadmap" announced by the Ministry of SMEs and Startups on the 27th.

02-08-2022

Part 2.

Business

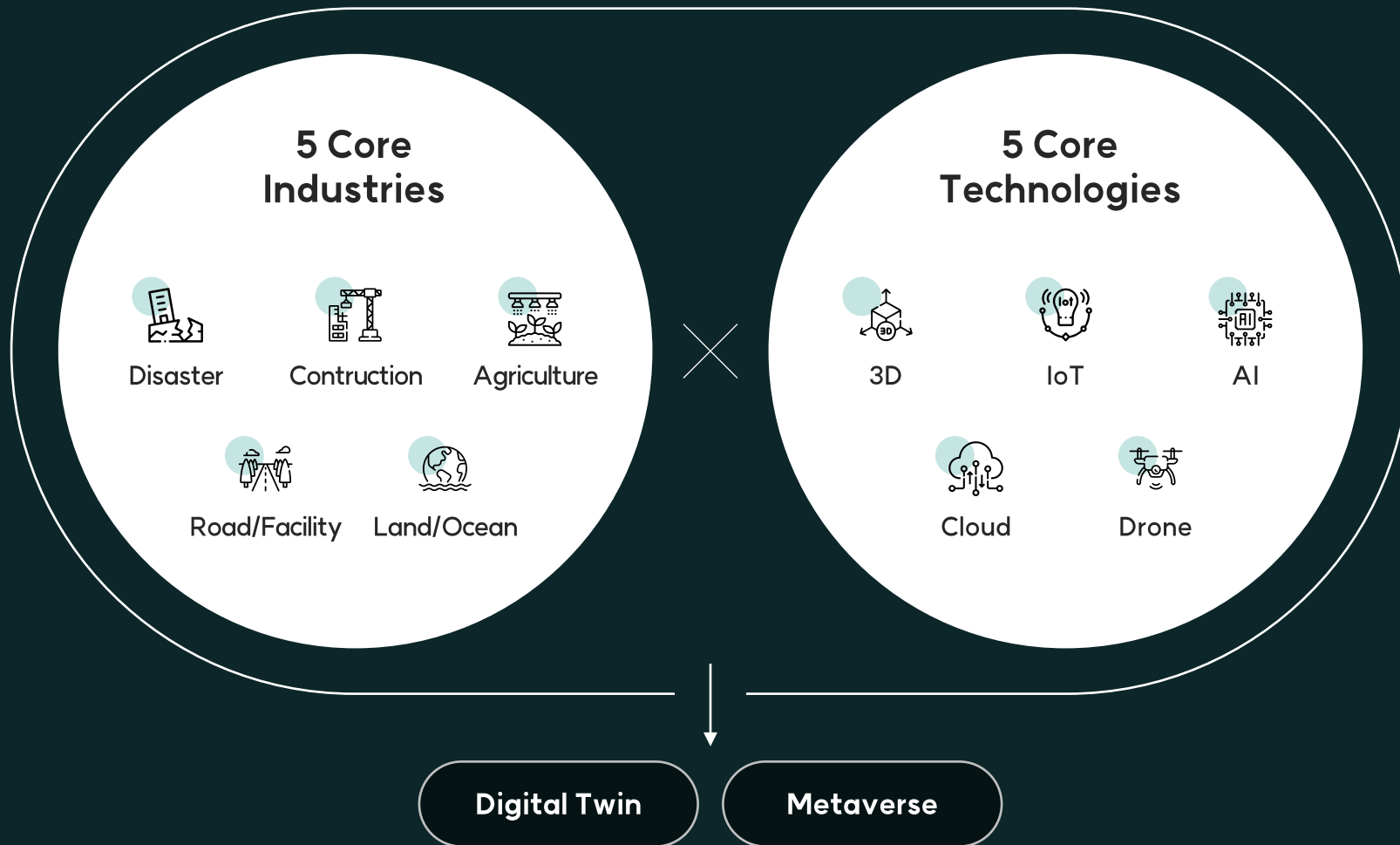
Business Area

Software

Solution

Platform

MuhanIT develops core-technology for hyper automated digital twin



Service Conceptual Diagram

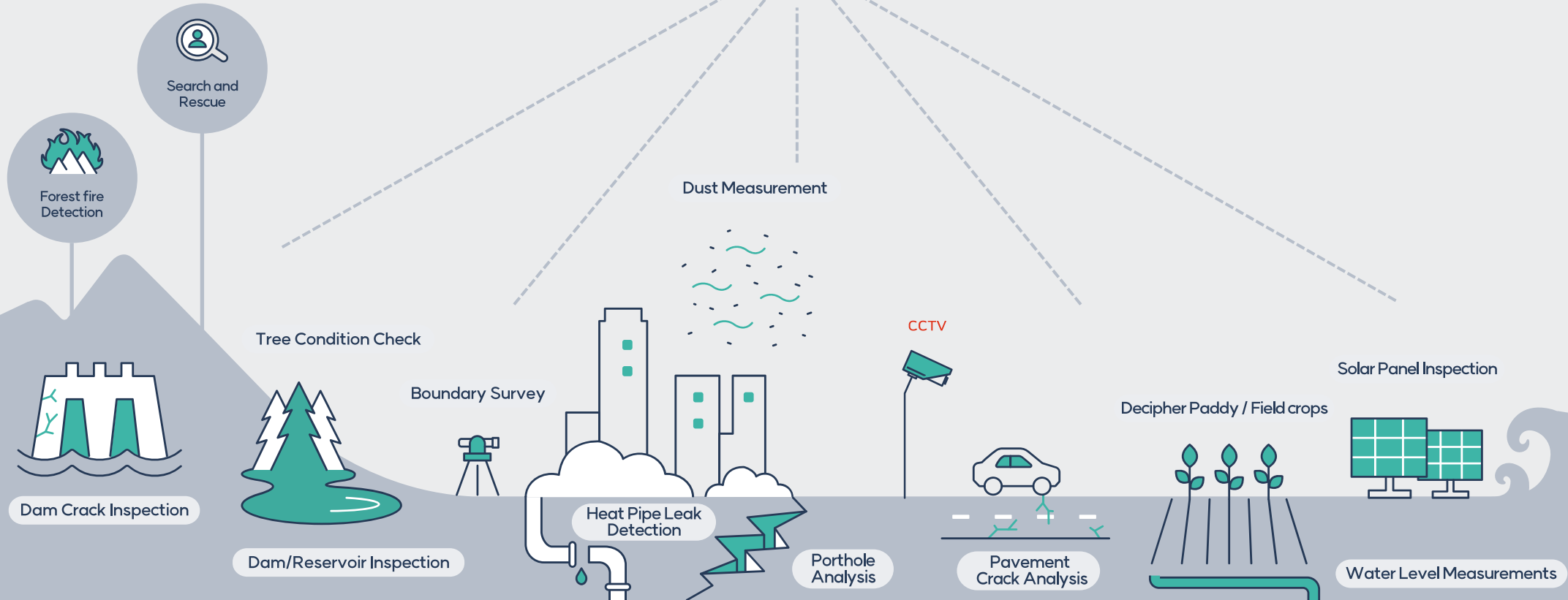
Drone Solution / Cloud Service



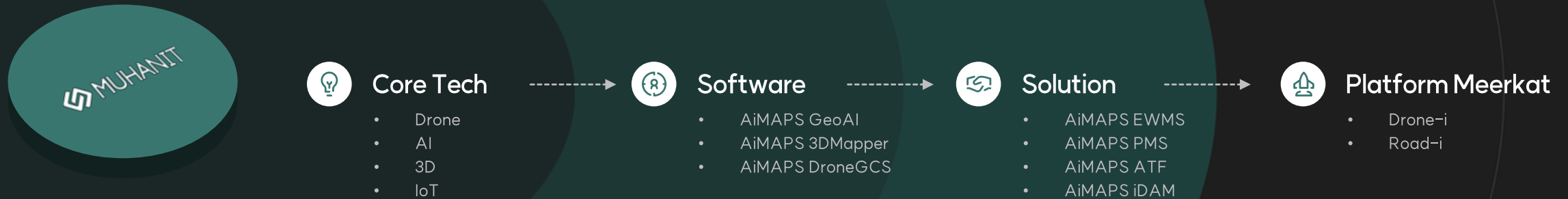
5G/LTE

Dust Measurement

CCTV



MuhanIT is developing, expanding, and applying core technologies for automation, focusing on its software <AiMAPS> that supports spatial information services.



AiMAPS

AiMAPS provides geo-spatial information cycle services from Image collection to conversion, analysis, and visualization

Our Core Technology



Drone



3D



AI



IoT



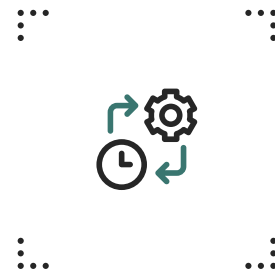
AiMAPS, one-cycle spatial information service support software

Expertly analyzes the needs of a variety of companies to provide optimal solutions for each sector.



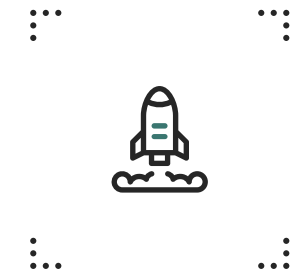
Securing safety

In order to strengthen the safety management of facilities due to the increase of old and dangerous facilities, IoT technology can be applied to preemptively manage risk factors.



Work Efficiency

To compensate for the shortage of professionals, processes can be organized from research/collection to transformation, analysis, and visualization to increase work efficiency.



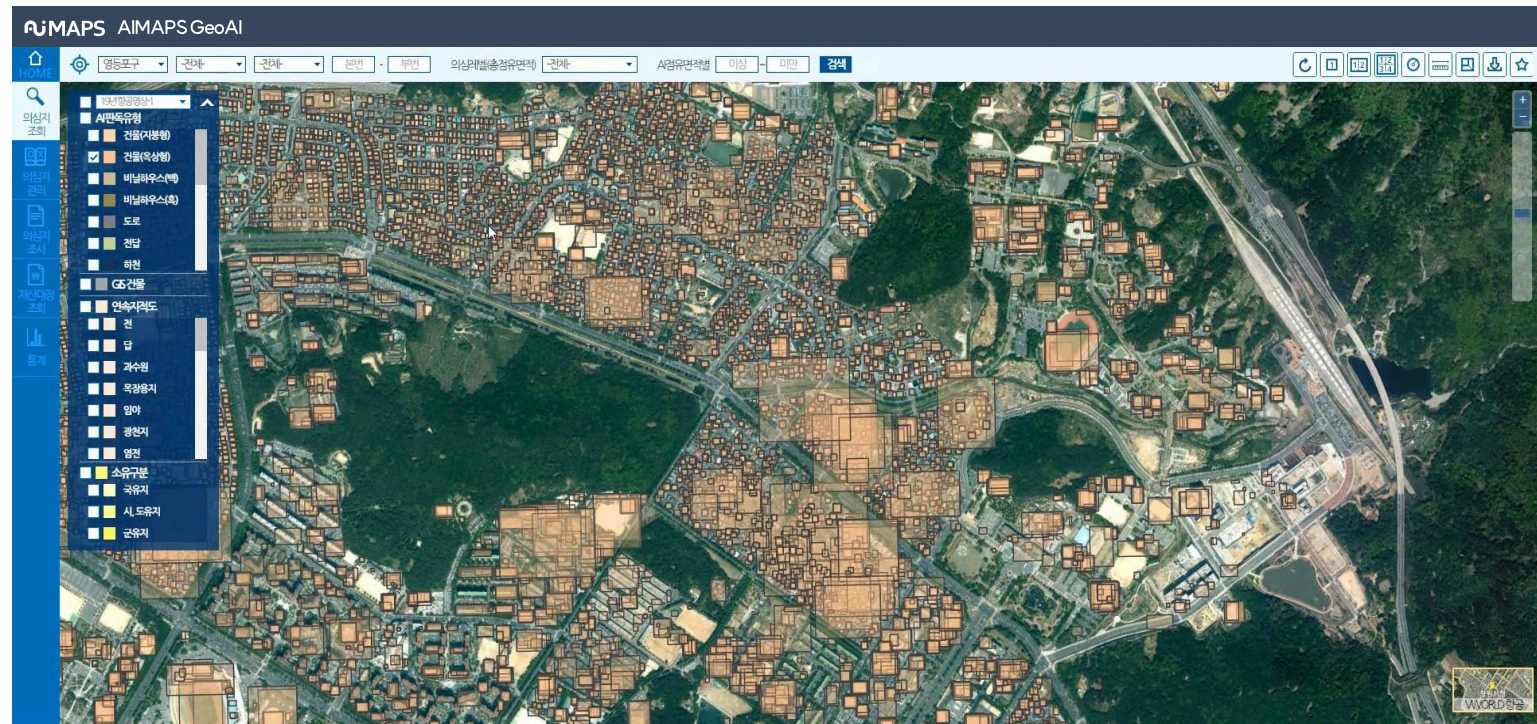
Technological Innovation

It is equipped with advanced ICT new technologies such as artificial intelligence, drones, 3D, and IoT and provides intelligent spatial information services that apply international standards.

AIMAPS GeoAI

Providing services related to artificial intelligence analysis for intelligent spatial information services

- AI learning dataset processing, AI learning model development, image reading, and GIS visualization support
- Supports crop cultivation area, reading of growth status, and aerial photographic object detection

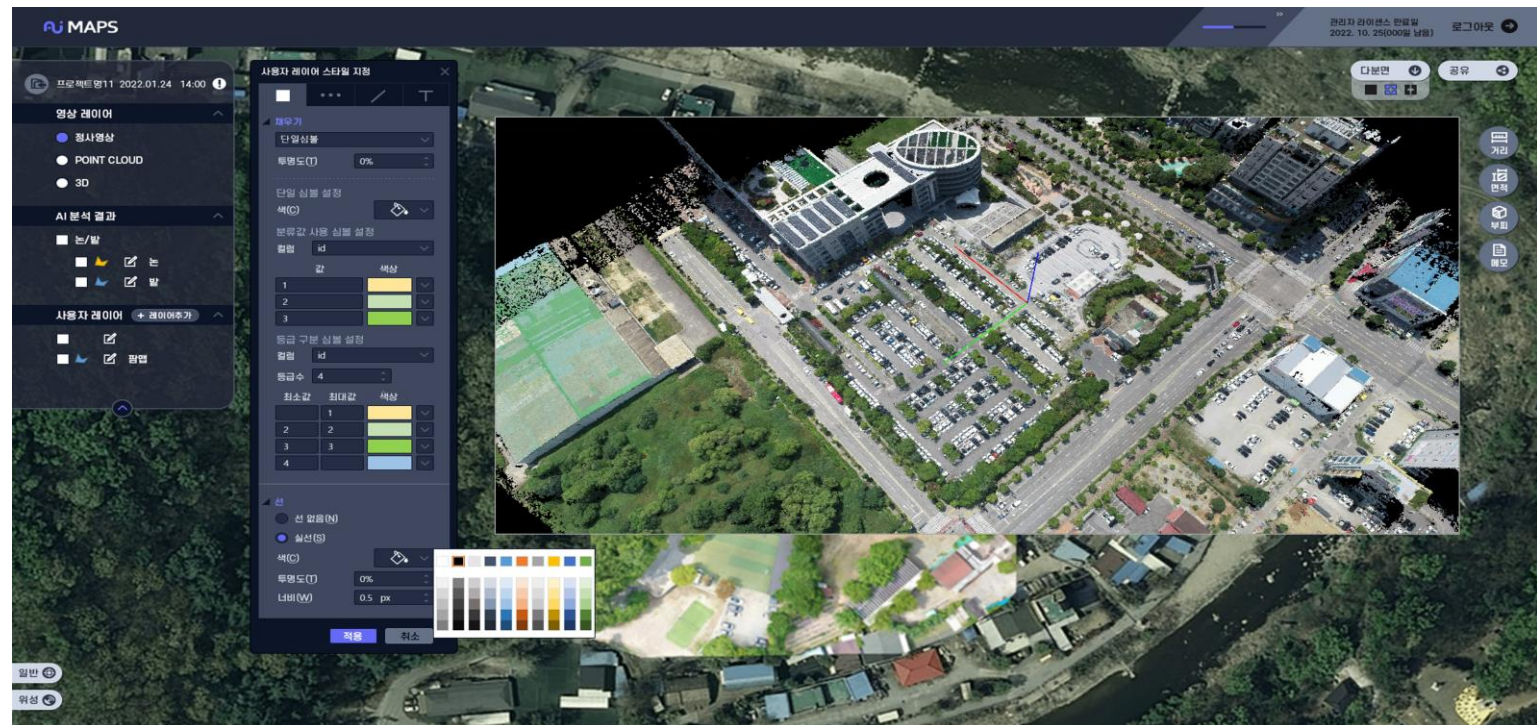


AIMAPS 3DMapper

Provides RGB-based 3D modeling automation services to build digital twin, metaverse environments

- Supports 3D modeling automation developed with proprietary technology
- Support for 3D Mesh Modeling automation using RGB

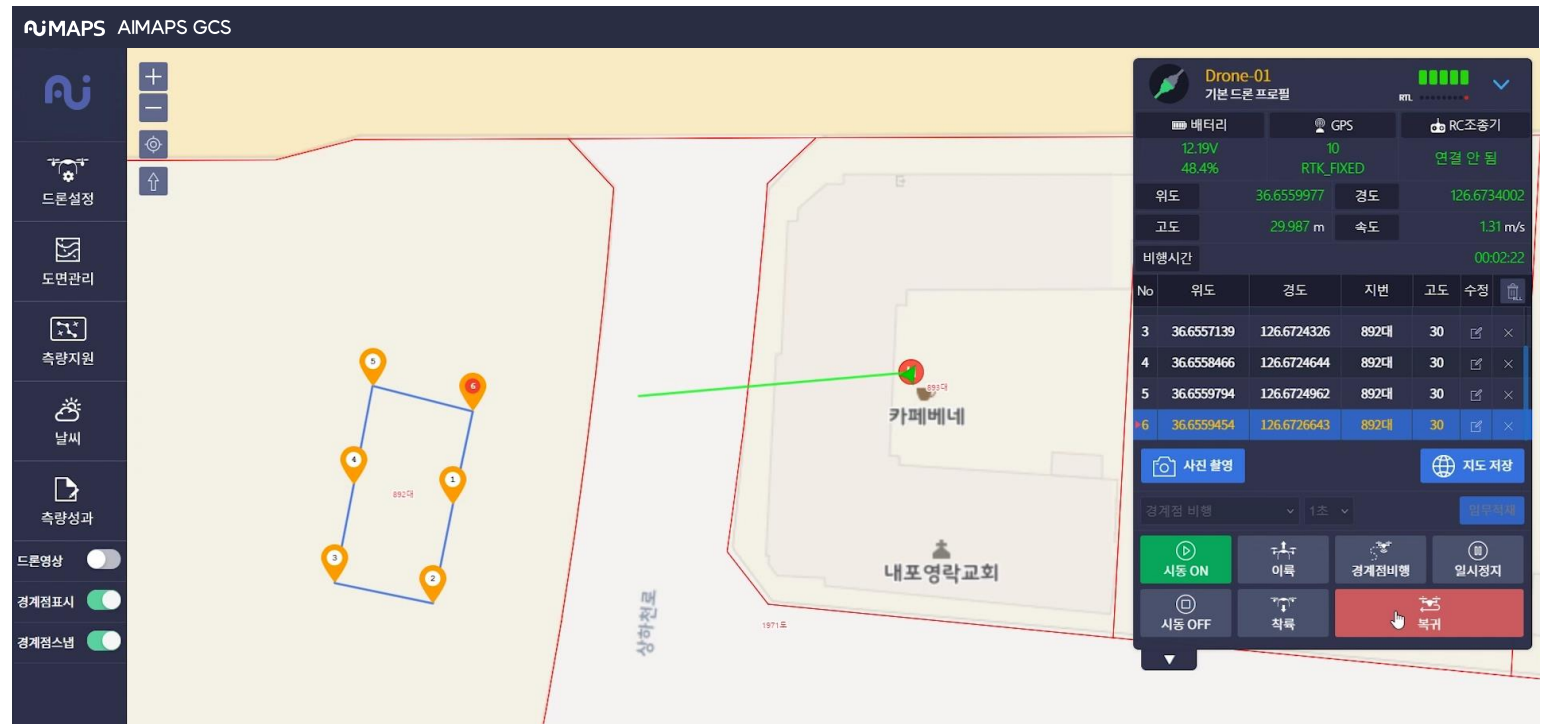
[▶ Building 3D](#)
[▶ River topography 3D](#)
[▶ Metaverse Environment](#)



AIMAPS DroneGCS 2D/3D

Providing drone unmanned control technology and various IoT information linkage services for non-visible flight

- Total drone control solution developed with its own technology
- Support for cadastral surveying, survey and management of construction site topography status
- Implementation of safety inspection diagnosis for large structures

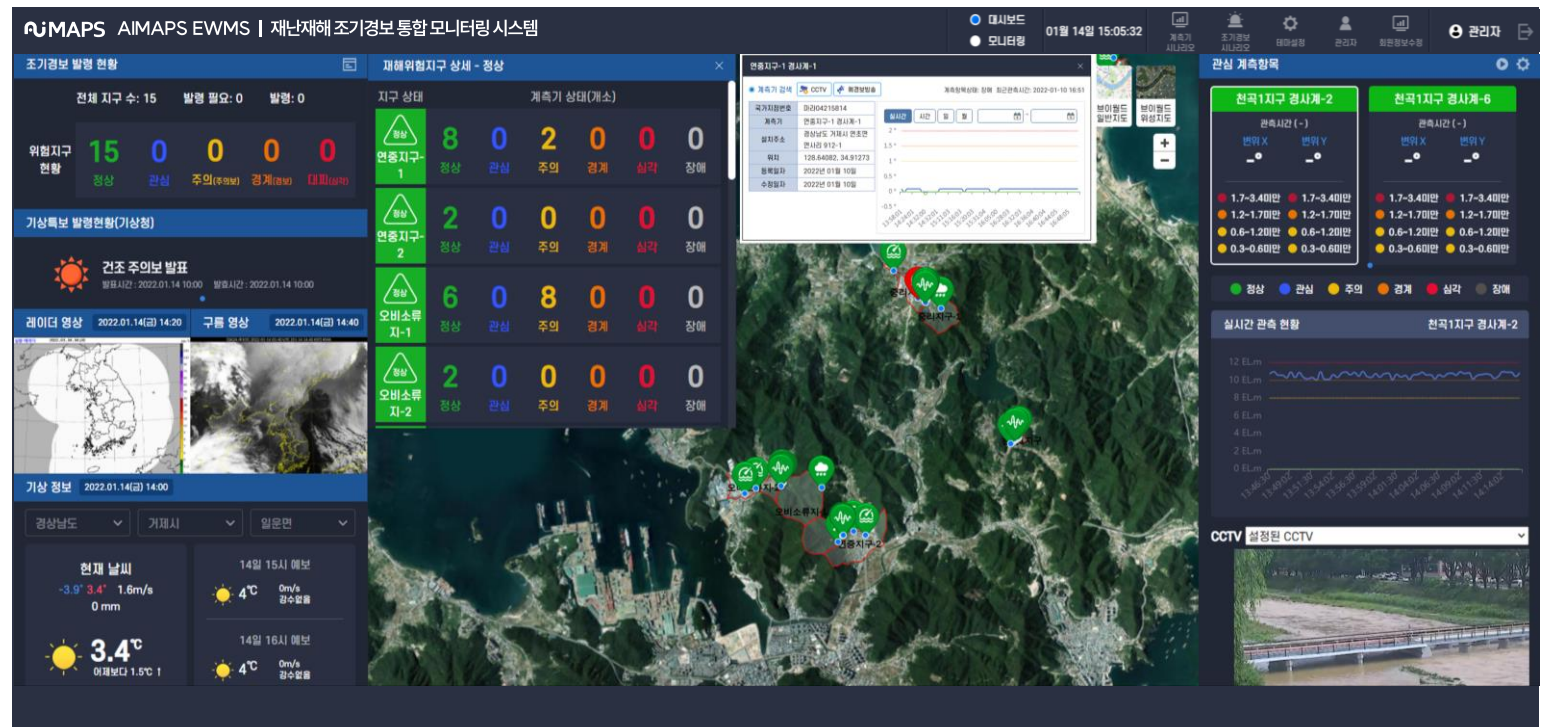


AIMAPS EWMS



Comprehensive disaster management solution for real-time monitoring and response

- Consider user convenience based on a map of various sensors
- Threshold setting, CCTV linkage, Meteorological Agency linkage
- Processing large IoT sensor information
- AIMAPS EWMS v1.0 Get GS Certification
Grade 1 [See more information](#)



AIMAPS PMS

Integrated management of processes for road pavement management from site survey to repair method selection

- AI automatic crack analysis, packaging status evaluation management, repair target selection, and repair method selection function support
- Support for proactive maintenance response

AIMAPS AIMAPS PMS | 도로 균열 분석

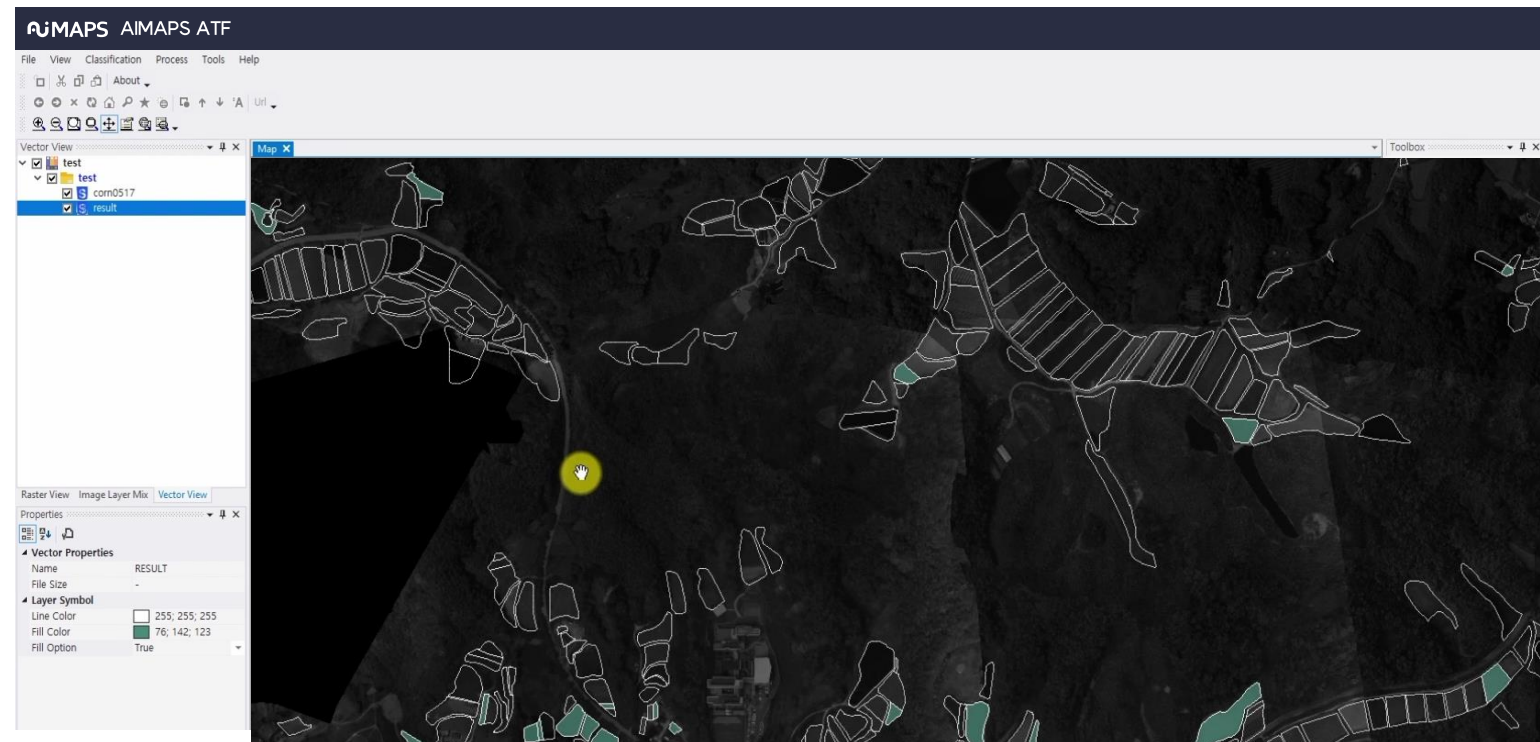
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영역	균열 종류	길이 (m)	면적 (m ²)	최대 균열양(mm)	심각도
<input checked="" type="checkbox"/> 0	TC	0256	-	0.00	Low
<input type="checkbox"/> 1	TC	0136	-	18.38	Medium
<input type="checkbox"/> 2	LC	2554	-	26.00	High
<input type="checkbox"/> 3	TC	2.047	-	15.00	Medium
<input type="checkbox"/> 4	TC	0.446	-	12.00	Medium
<input type="checkbox"/> 5	LC	0.368	-	12.00	Medium
<input type="checkbox"/> 6	LC	1.328	-	14.14	Medium
<input type="checkbox"/> 7	TC	0.812	-	11.00	Medium
<input type="checkbox"/> 8	AC	-	0.208	12.00	Medium
<input type="checkbox"/> 9	TC	0.767	-	11.31	Medium
<input type="checkbox"/> 10	TC	0.499	-	15.00	Medium
<input type="checkbox"/> 11	TC	0.145	-	8.49	Medium

AIMAPS ATF

Providing AI reading service for crop cultivation area and growth condition management

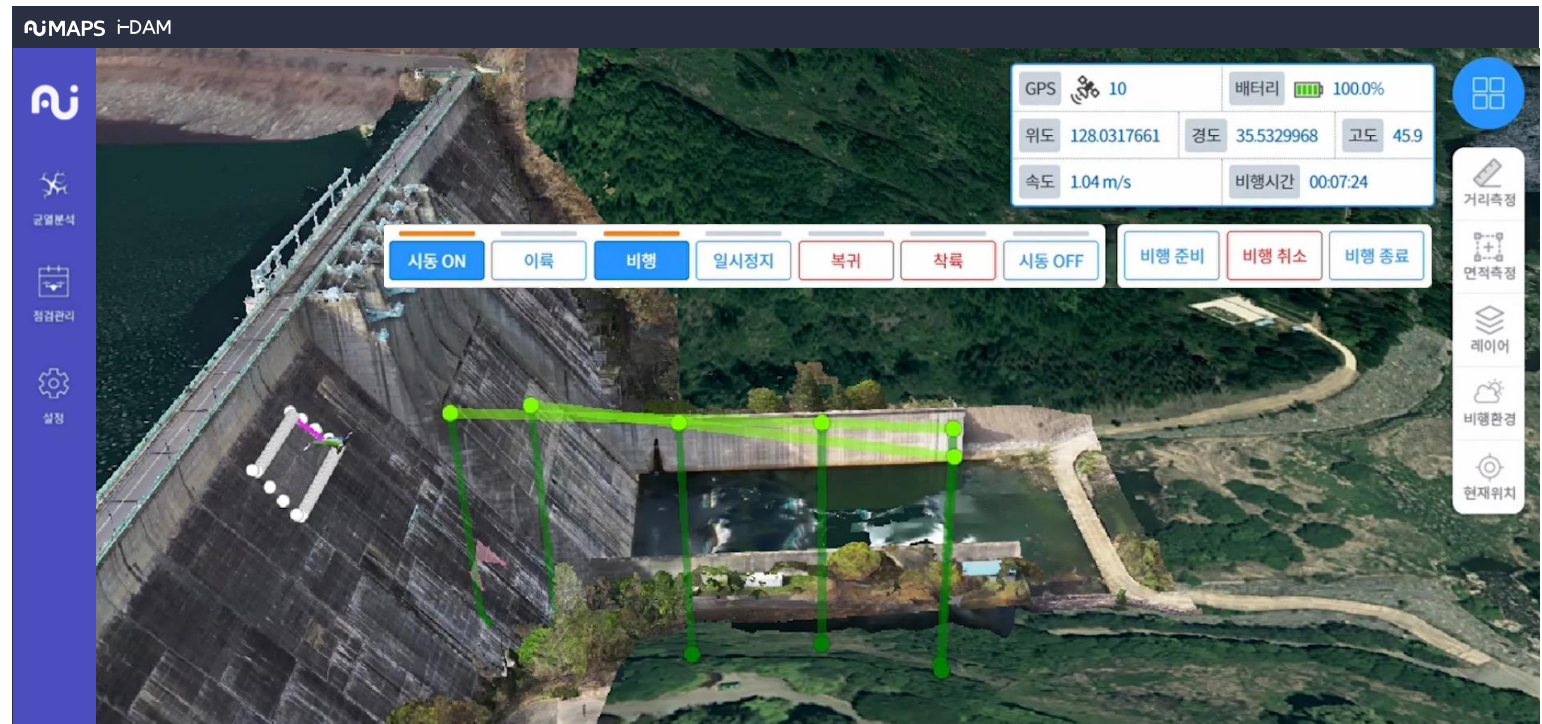
- Reading Crop Types Using Various Sensor Information
- Machine Learning-Based Crop Reading
- C/S version of the entry-level software



AiMAPS iDAM

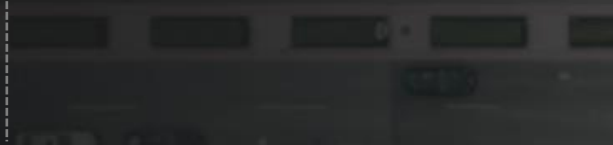
Securely manage and inspect large facilities based on digital twin

- Remote dam photography and high-precision image acquisition through 3D drone control
- RGB Semi-annual 3D Mesh Modeling Assimilation
- Automatic crack analysis using AI and 3D technology
- Automatic generation of standing image and CAD matching of dam appearance



meerkat

Platform where anyone can easily collect and update 3D spatial information using low-end equipment.



Data Acquisition



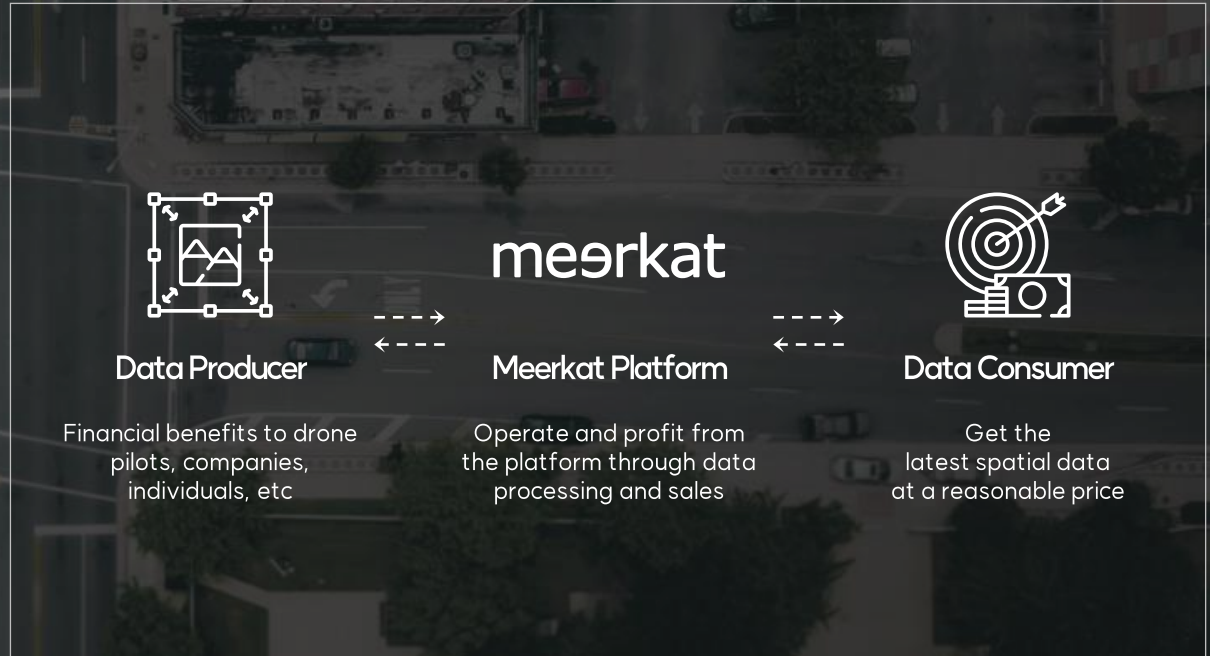
MMS

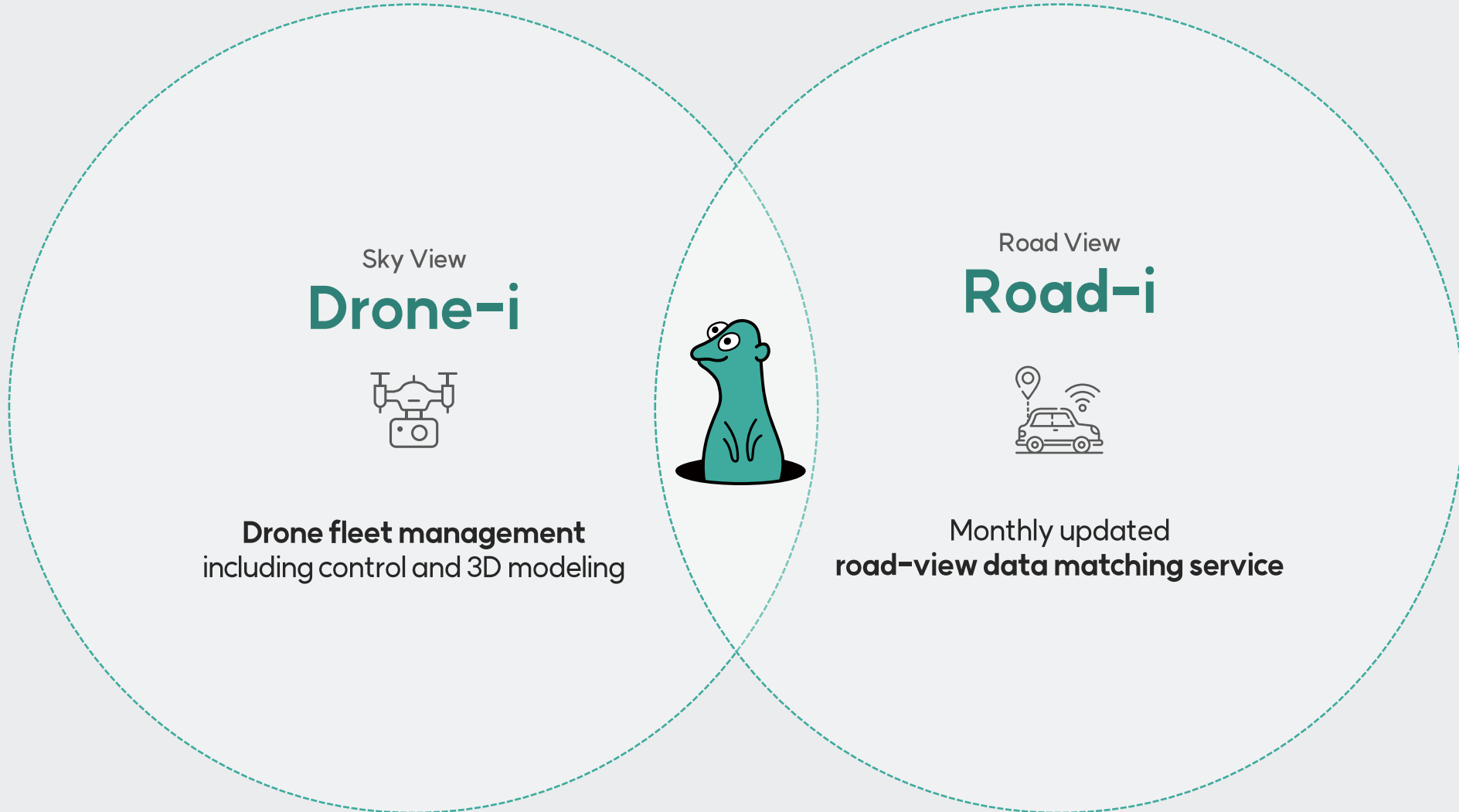


Drone

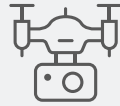


Mobile Phone





Sky View
Drone-i



Drone fleet management
including control and 3D modeling

Road View
Road-i



Monthly updated
road-view data matching service



Drone-i (Sky View)

**Drone fleet management
including control and 3D modeling**

- Re-establishment of Platform-Based Data Renewal Schemes
- Utilization of low-cost/distributed photographing equipment
- Provide the services required to collect aerial view data collection
- Provides data postprocessing conversion services



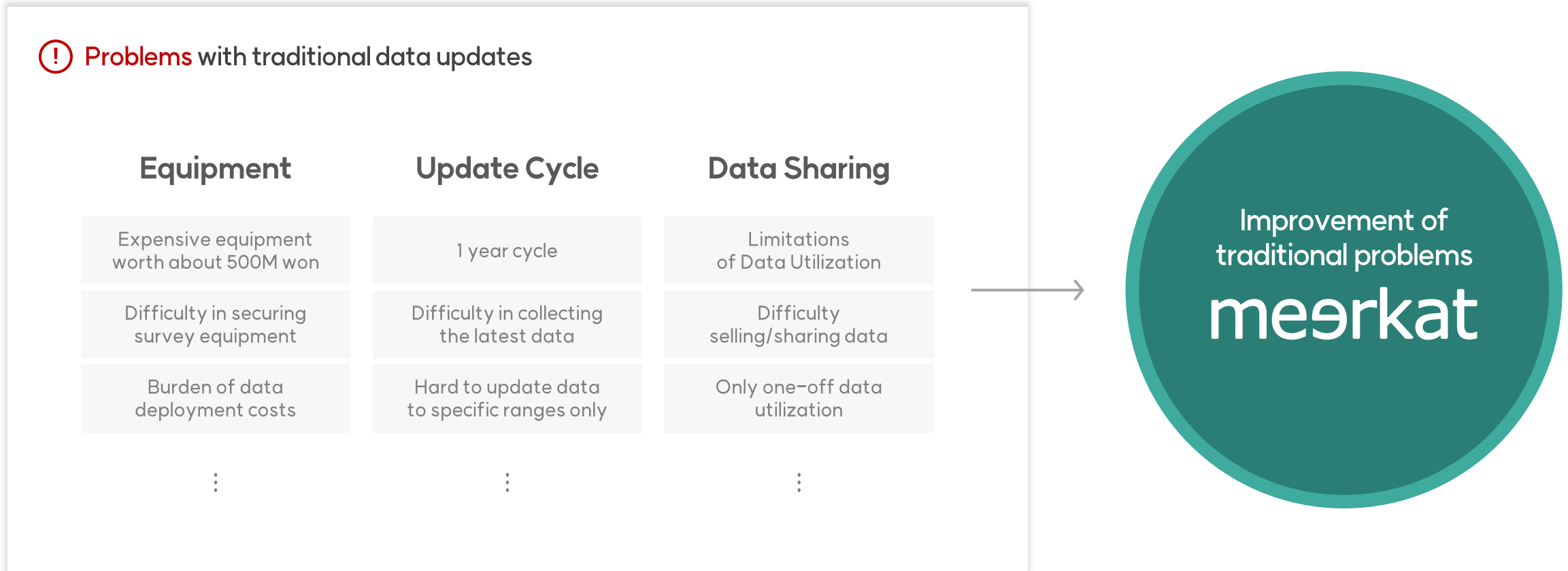
Road-i (Road View)

**Monthly updated
road-view data matching service**

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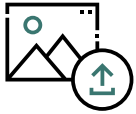
Improve data with low-cost equipment

The platform Meerkat has been created to address the challenges of updating spatial data with expensive equipment and to utilize data effectively.



Service Strengths of Meerkat Platform

Spanning the use of spatial data by improving traditional problems



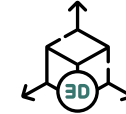
Anyone can research data

Drone, owner of own vehicle, smartphone user, etc. can upload spatial data through Meerkat platform.



Save deployment costs by about 1/3

Data can also be utilized with entry-level equipment, which reduces budgets by about a third of existing deployment costs.



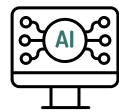
3D Point Cloud Automatic Conversion

Provides capabilities for utilizing additional data, such as automatic conversion from 2D images to 3D Point Cloud.



Deliver cloud-based services

You can save your work data in the cloud and view it anytime, anywhere, on any device.



AI-based analysis capabilities

Acquired images provide various analysis functions that users want through AI data learning.



Provide 3D Metaverse Basic Data

It provides 3D spatial data that is the basis of the metaverse environment such as disaster, construction, agriculture, roads, and facilities.

Thank you

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