JAPAN DRONE 2025
KOREA PAVILION

June 4 (Wed.) - 6 (Fri.), 2025 (3 days)

Makuhari Messe (International Exhibition Hall and Conference Center)
2-1, Nakase, Mihama-ku, Chiba-city, Japan

MOLIT
Ministry of Land, Infrastructure and Transport

KIAST Korea Institute of Aviation Safety Technology

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MOLIT
Ministry of Land, Infrastructure and Transport

https://www.molit.go.kr/

The Ministry of Land, Infrastructure and Transport (MOLIT) is a central government agency in South Korea responsible for managing the nation's land development, transportation safety, and overseeing aviation and maritime operations.

MOLIT plays a critical role in improving the efficiency of national logistics and transportation systems, and is in charge of comprehensive policies and infrastructure development in the areas of land management, transportation, and public infrastructure.

MOLIT's main responsibilities include:

First, formulating land use and development policies, focusing on efficient land utilization, urban planning, and sustainable development.

Second, expanding and managing transportation infrastructure to enhance traffic safety and efficiency, including strengthening the public transportation system, road networks, and rail networks.

Third, regulating and ensuring the safety of aviation and maritime industries, supporting the global competitiveness of international aviation and maritime transportation, and ensuring the smooth flow of logistics.

Additionally, MOLIT supports future transportation technologies such as drones and autonomous vehicles, leading innovations in smart cities and utilizing digital twin technology for land and infrastructure management.

The ministry also promotes the development of low-carbon transportation systems and implements policies aimed at climate change adaptation and energy efficiency.

MOLIT plays a key role in creating policies for the safety and convenience of citizens, contributing to economic development and the creation of social value through its transportation and land management strategies.

Thank you.

MOLIT
Ministry of Land, Infrastructure and Transport

Minister Sang Woo, Park

KIAST Korea Institute of Aviation Safety Technology

155-30, Robot Land-ro, Seo-gu, Incheon, South Korea
https://kiast.or.kr | https://droneportal.or.kr/

KIAST (Korea Institute of Aviation Safety Technology) is a specialized aviation safety organization that nurtures aviation safety technology experts necessary for aviation safety, and performs certification, testing, research, and technology development related to the prevention of aviation accidents.

Since its establishment in 2013, KIAST has built an integrated aviation certification system ranging from certification of aircraft, navigation safety facilities, Light Sport Aircraft and Ultra-Light Vehicle devices, and aviation security equipment.

In addition, we are actively promoting aviation policy support to prevent aviation accidents in advance through the collection, analysis and utilization of aviation safety information.

Since 2017, we have been actively supporting the development of the drone industry, an innovative growth industry, by building infrastructure, improving regulations, and supporting business development in relation to safety promotion and activation of the unmanned aerial vehicle industry.

In addition, in preparation for the advent of UAM (Urban Air Mobility), which will become a means of urban air transportation in the future, we are in the process of establishing and demonstrating a certification system, expanding our role and scope as a specialized aviation safety organization.

In addition, KIAST will lead the way in securing the safety of the people and social value as a public institution.

KIAST, which values the sky, people, and the future, will do its best to become a professional aviation safety organization trusted by the people at an international level.

Thank you very much.

KIAST Korea Institute of Aviation Safety Technology

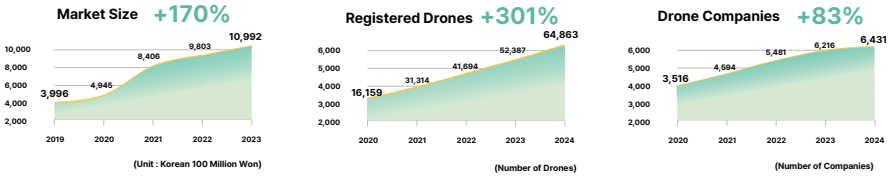
President Ho Won, Hwang

Advancing Korea's Drone Industry through Innovation, Deregulation, and Global Leadership

<Focus Areas>

Establishing legal frameworks and infrastructure for drone promotion, driving industry growth through innovation, and expanding integration into everyday life.

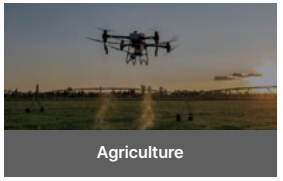
· Current Status of Korea Drone Industry

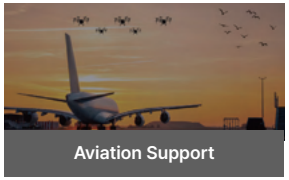


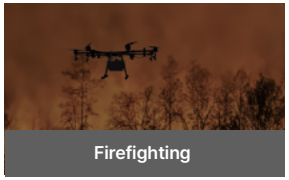
· 5 Key Drone Projects

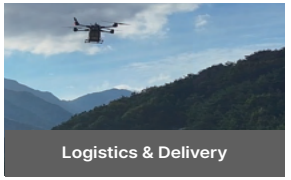
Korea's 5 Core Projects for Complete Drone Systems

Focused government support for 5 core application areas with high national and strategic demand demand and development potential









· Drone Industry Alliance

National platform aligning Korea's government, academia, industry, and public sector to strengthen collaboration and accelerate innovation in the drone ecosystem (Launched 2025. 5. & over 347 members have joined)

· Advancing Core Drone Technologies and Establishment of a Manufacturing Ecosystem

Smart Drone Factory

A shared manufacturing hub covering the entire process from design to production

Drone Startup Support Center

Specialized incubator for software development

Drone Professional Training

Drone education programs tailored for everyone from elementary students to working professionals

· K-Drone to World Festival

Integrated National Drone Events · National Relay Drone Festival Tour

Jeonju
9.25~9.28

Drone Soccer World Cup

Jeonju World Cup Stadium
32 countries, over 2,500 participants

Busan
10.3~10.5

International Drone Light Show

Drone Fireworks Light Show, and K-POP Fusion

Pocheon
10.9~10.12

World Drone Festa

Drone light show with 6,000 drones

Namwon
10.16~10.19

International Drone Racing

Namwon International Drone Festa 2025 with Robot

Drone Safety and Revitalization Support Project

In order to commercialize new business models using drones, various projects are carried out along with the discovery of business models in areas where market demand is high.

1. Drone Demonstration City Project

· **Purpose** : To commercialize and revitalize Drone Service Models within regional characteristics of local government (2019~)

· 2025 Main Projects

❶ Drone Delivery

Commercialize Drone Delivery Services on Islands·Parks ·Ports

- Implementation of the "K-Drone Delivery Standard" for the commercialization of drone delivery services on Islands, Parks and Ports

❷ Drone Leisure

Hosting an international Drone Leisure Sports Competition to revitalize the Drone Leisure Industry

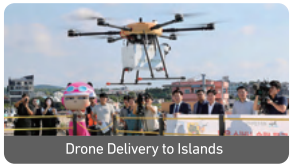
- Promoting the internationalization of advanced drone technology through international drone sports competitions using domestically produced drones

❸ Advanced Drone-based Administrative Services

Promoting regional innovation and public-purpose drone projects for local governments

- Applications : Mapping & Inspection, Search&Rescue, Public Safety Management and Drone-Based delivery


Drone Delivery to Parks


Drone Delivery to Islands


Drone Delivery to Port


Yeongam Korea DFL 2024

2024 FIDA World Cup Championship


Drone Administratiog Services

2. Drone Commercialization Project

· **Purpose** : Supporting Cutting-Edge technology development and localization of drone components to accelerate the early commercialization of advanced domestic drone technology

· 2025 Main Projects

❶ Demand-Driven practical drone localization project

- Establishing a core drone parts production and promoting sales and utilization

(Motor, Battery, Flight Controller, Communication Device, Transmission Controller, etc.)

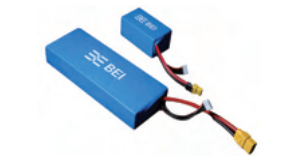
❷ Supporting the Development of High-demand and continuously commercialize technologies

- Development of High-Payload, Long-Range Operation and Mid-to-Large Drones
- Development of High-Performance cameras for facility inspection, security and surveillance

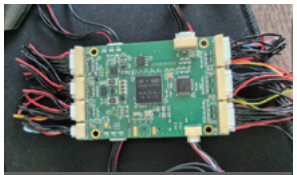
❸ Commercialization and business expansion of drone services using existing technologies

- AI-based drone applications, public safety services and drone leisure sports

Localized Drone Motor



Localized Drone Lithium Metal Battery


Localized Agricultural Drone FC

Cluster Drones Light Show

Firework Drones Show

3. Drone Regulation Free Area

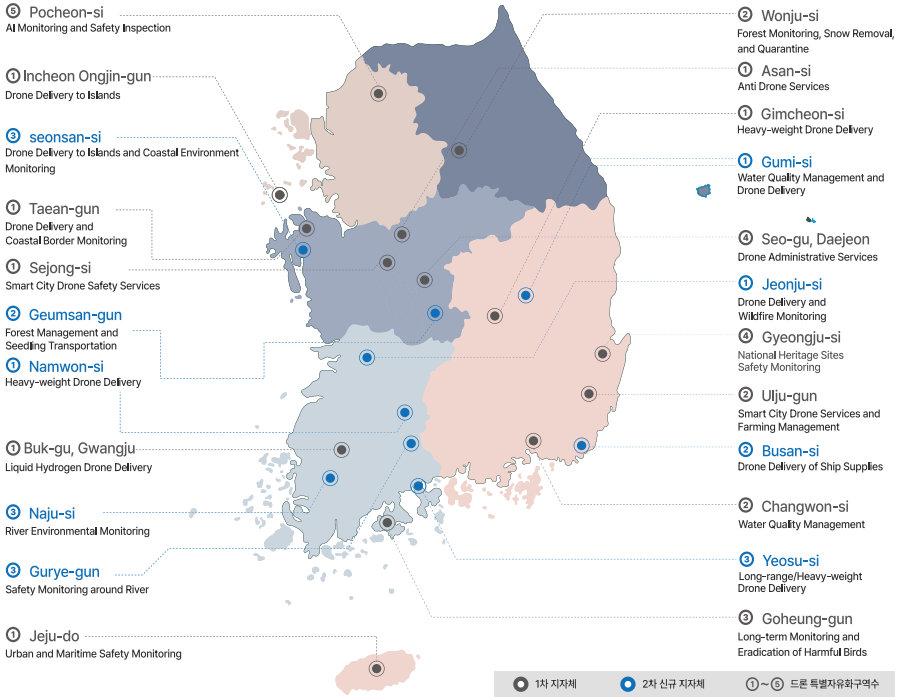
· **Purpose** : Simplifying or Exempting drone flight regulations to promote the commercialization of drone service models

· Exemptions from Regulations

Current Regulatory Status	Drone Regulations Free Area
Special Airworthiness Certificate : It takes more than 3 months for large drones(over 150kg) to undergo certification test	**Exemption of Special Airworthiness Certificate :** Rapid demonstration of drone taxi and cargo drones
UA Flight Permit : For each flight of large drones, a separate approval must be obtained	**Exemption of UA Flight Permit :** Expectation for promoting commercialization of drone taxi and cargo drones
Safety Certification : It takes more than 1month for small and medium-sized drone to undergo certification test	**Exemption of Safety Certification :** Immediate verification is possible for various development drones
Flight Approval : Approval is required for Flights in urban and high altitude areas	**Exemption of Flight Approval :** Free flight is possible without anyapproval of flight
Special Flight Authorization : Approval is required for night flights and beyond-visual line of sight flight	**Exemption of Special Flight Authorization :** Support for 25-hour logistics delivery drone demonstration
Electromagnetic Compatibility Assessment : It takes at least 1 month for certification test in case of all newly developed UA	**Exemption of Electromagnetic Compatibility Assessment :** Immediately available for experimentation of all newly developed UA

· Status of Drone Regulation Free Areas

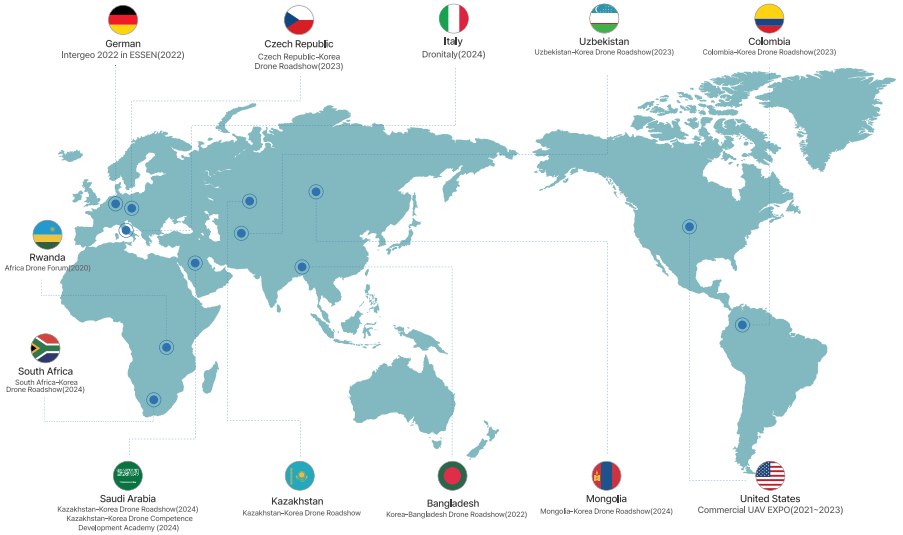
- Operating in 47 areas across 23 local governments



4. Overseas Expansion Support Project

· **Purpose** : To enhance the global competitiveness of the domestic drone industry, Hosting overseas roadshows and participating in international events to promote the excellence of Korea Drone Companies and facilitate practical market expansion abroad

· Drone Roadshow Countries & International Events



· Achievement

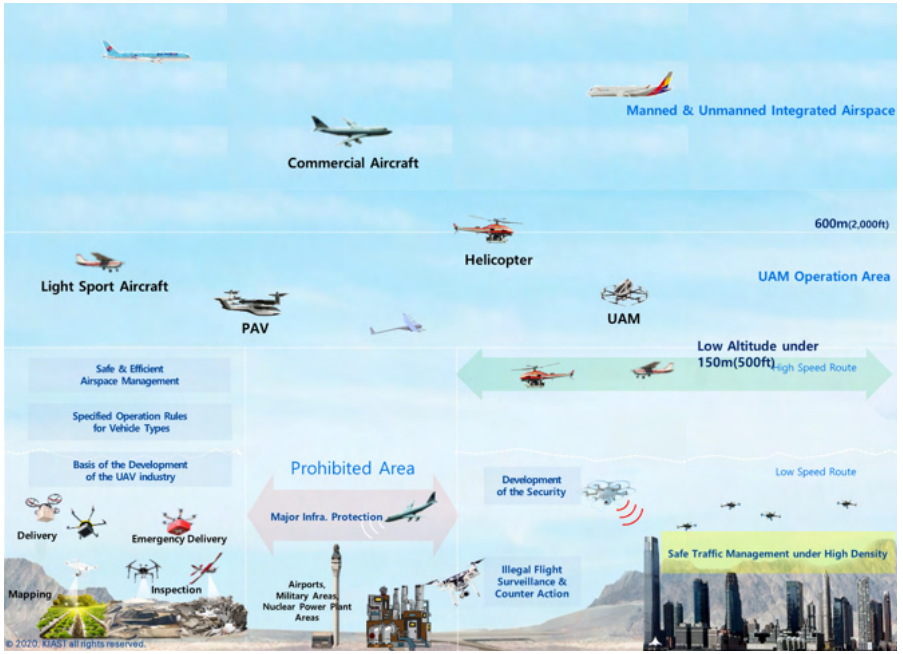
❶ Achieved KRW 54.3 Billion in exports of Drone Hardware, Software, Components and Drone Utilization Services(2024)

❷ Signed 121 MOUs with key partner countries, including Italy, Kazakhstan and Japan, etc.

Unmanned Aircraft System Traffic Management

UTM provides various traffic management services to drones, ensuring safe and harmonious operations in the airspace for manned aircraft, UAM, and drones.

· Integrated Traffic Management

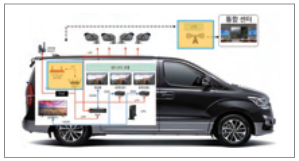


· UTM Infrastructure & System

Establishment of infrastructure and system for flight monitoring to ensure safe flight of drones

* FIMS: Flight Information Management System

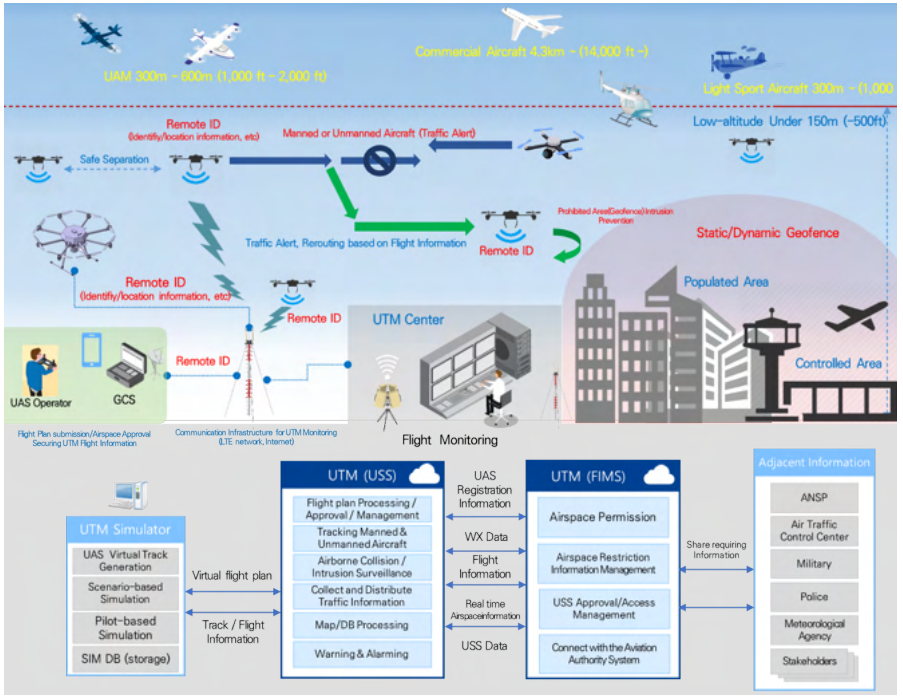
FIMS* Center



Drone Flight Monitoring Mobility

UTM System Platform

· UTM Concept of Operation



· Current Status of UTM R&D in South Korea

PROJECT TITLE	Development of Low-Altitude Drone Traffic Management System and Advancement of Communication Infrastructure
DURATION	2023.6. ~ 2026.12. (3 years 7 months)
OBJECTIVE	· Development and Implementation of UAS Traffic Management System in Low Altitude (lower than 150m) for safe and efficient operations of drones under 150kg · To provide drone traffic management services to UAS (Unmanned Aircraft System) weighing less than 150kg flying at a low altitude (less than 150m), we aim to design, develop, and demonstrate advanced versions of two USS (Traffic Management Operator) systems and FIMS (National Drone Flight Information System) that allow the state to monitor drone flight information. · Advancement and Standardization of Drone Flight Information Reception Modules and Communication Infrastructure for Drone Traffic Monitoring
GOAL	Focusing on creating total ecosystem of UTM by developing FIMS, multi–USS, Remote ID
DEMONSTRATION GOAL	Flight demonstration at urban area with population more than 0.5mil. by testing FIMS–USS, USS–USS, FIMS–PSU or ATM, Remote ID (Network, Broadcasting, Hybrid, Embedded) FIMS (Flight Information Management System) ** USS (UTM Service Supplier) *** PSU (Provider of Services for UAM)
MEMBERS	Supported by: MOLIT, KAIA Research Institutions: KIAST, KARI, ETRI, KLRI, KAC, KDFC, METABUILD CO.,LTD., Smatii, KOREA AEROSPACE UNIVERSITY

01 Namwon city

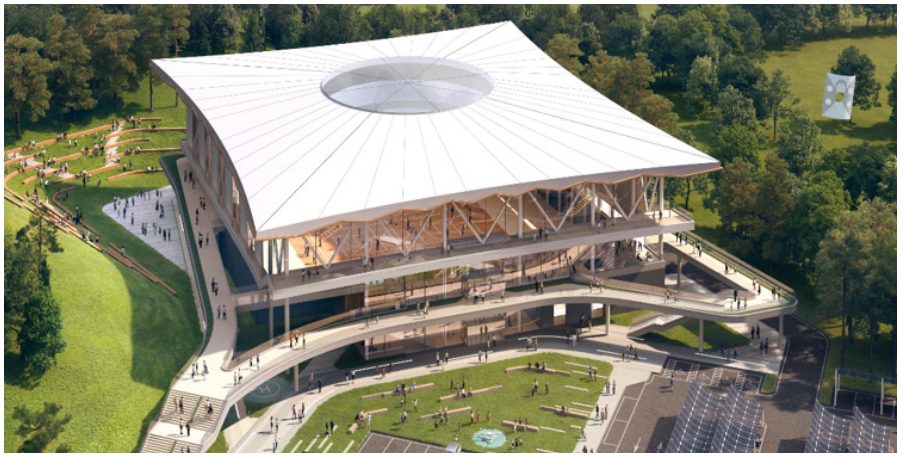
Namwon is emerging as Korea's drone hub, selected for major national projects to lead in drone racing, delivery, and testing.

CITY Profile

CITY Name	NAMWON
MAYOR	Kyungsik Choi
CITY Address	60, Sicheong-ro, Namwon-si, Jeonbuk-do, Republic of Korea
CITY Contact number	063-620-6114
Homepage	www.namwon.go.kr
Social Media	Facebook https://www.facebook.com/namwonstory/ Instagram https://www.instagram.com/goodnamwon/ Youtube https://www.youtube.com/user/goodnamwon/featured

CITY & Business Overview

Namwon is a leading city in South Korea's drone industry and recognized as the hub for drone racing and boasts optimal infrastructure for drone delivery and various drone flight demonstrations.



We plan to establish a Multipurpose Drone Utilization Center capable of hosting the DFL Drone Racing World Cup, along with an Advanced Drone Sports Promotion Center focused on specialized drone training and education.

This year, Namwon has been selected for the Ministry of Land, Infrastructure, and Transport's 2025 Drone Demonstration City Project. The city will be pursuing the project with the objectives of utilizing domestically produced drones for drone racing (DFL) and establishing a global operational framework, as well as developing a Namwon-specific drone delivery system in accordance with the K-Drone delivery standards. we have been selected for the Ministry of Land, Infrastructure, and Transport's Drone Special Free Zone project, providing companies with an easy-to-test sandbox for real-world validation.

1 The Namwon International Drone Festival with Robots will be held from October 16 to 19 at the Namwon Comprehensive Sports Town. This year, the event will feature the international DFL (Drone Racing League) competition, hosted by the Ministry of Land, Infrastructure, and Transport, where top-tier drone racers from around the world will engage in thrilling races. The festival will also include various programs such as drone and robot exhibitions, hands-on experiences, technology conferences, and drone performance shows. At the Namwon Global Food Festival, visitors will have the chance to taste diverse cuisines from around the world, while the event will be filled with various experiences that blend future technologies and culture.

2 The DFL (Drone Racing League) is an international drone racing competition where the world's top drone pilots compete at high speeds. DFL showcases the advancement of drone technology by utilizing domestically produced drone racing vehicles, with piloting skills and strategy playing a crucial role in the rapidly evolving technological landscape. This event combines thrilling races with innovative drone technologies, offering spectators an exciting and intense experience.

02 POCHEON CITY

Pocheon is building a K-Drone Cluster to lead Korea's advanced drone industry and Defense Innovation 4.0.

CITY Profile

CITY Name	#POCHEON
MAYOR	BAEK YEONGHYEON
CITY Address	87, Jungang-ro, Pocheon-si, Gyeonggi-do, Republic of Korea
CITY Contact number	+82 031-538-3319
Email	kkh5290@korea.kr
Homepage	https://www.pocheon.go.kr
Social Media	Facebook https://www.facebook.com/newspcs21 Instagram https://www.instagram.com/pocheon_city/ Youtube https://www.youtube.com/channel/UC6vuOrfklYdSXDVzUSf3uMA

CITY & Business Overview

Pocheon: The Hub of Korea's Advanced Drone Industry

Game Changer on the Battlefield, the Present and Future of Advanced Drone Industry Begins in Pocheon

Pocheon is preparing to emerge as a drone cluster through industrial complexes and support facilities for military drone utilization and drone localization. For over 70 years, Pocheon has contributed to strengthening national defense through close cooperation with the military. Now, Pocheon plans to foster new growth through the establishment of a K-Advanced Drone Cluster. The city's initiatives to implement the unmanned-manned integrated combat system, a core mission of Defense Innovation 4.0, and to create a healthy drone industry ecosystem are ongoing.

Main Business

· 2025 Pocheon Hantangang World Drone Festival

· Location: Hantangang UNESCO Global Geopark
· Date: October 9-12, 2025
· Program Highlights:
  - World Drone Light Show
· 9 performances over 4 days (maximum over 6,000 drones per show)
  - DFL International Drone Racing
· Korea's first ultra-high-speed drone racing in a natural canyon setting
  - Pocheon Drone Soccer Tournament
· Linked with FIDA (International Drone Soccer Federation) established in 2022
  - Hantangang Camping Festa
· Camping event in the natural beauty of Hantangang
  - World Food Culture Festival
· Experience global cuisines and traditional costumes
  - Global Geopark Academic Expo and Drone Industry Conference
· A hub for knowledge exchange leading Korea's drone industry

· K-Drone Industry Cluster

· Location: Jajak-dong, Pocheon, Gyeonggi Province (0.635km²)
· Construction Start: 2027
· Accessibility (Within 1 Hour from Seoul)
  - Sejong-Pocheon Expressway (Full opening by 2026)
  - Second Capital Region Ring Expressway (Pocheon-Hwado section opens 2024)
  - Pocheon-Okjeong Metropolitan Railway (Construction starts early 2025)
· Formation of K-Drone Industry Cluster
  - Northern Gyeonggi Northern Venture Center Attraction
  - Attraction of Core Drone Component Manufacturers
  - Establishment and Support for MRO Center
  - Promotion of Defense Embedded Software
  - Support for R&D-centered Drone Research

· Test and Evaluation Support Testbed

· Pilot Operation: June 2025
· Drone/Anti-Drone Testbed
  - Seungjin Scientific Training Ground (19.83km²), Darakdae Test Site (16.5km²)
  - Test flights for various missions based on battlefield scenarios
· Unmanned-Manned Integrated System Testbed
  - Hantangang Drone Special Free Zone (3 km straight-line test possible)
  - Digital twin infrastructure for AI-linked drone/anti-drone/robot testing

· Advanced Drone Support Facilities

· Location: Ildong-myeon, Pocheon (0.1km²)
· Completion Target: 2027
· Military-Civilian Drone Test and Evaluation Support Center
  - Supports military drone acceptance testing and civilian test certification processes
· Comprehensive Drone Training Center
  - AR/VR-based training programs and facility to train professionals in unmanned combat systems

· 2025 Drone Demonstration City Project

· Establishment of Military-Civilian FPV Drone Training Ground
  - Indoor and outdoor training areas and educational programs
  - Promotion of civilian FPV leisure industry
  -Training of professionals for military drone combat systems
· Drone Delivery Project
  - Delivery to key tourist sites like Hantangang and underserved logistics areas
· World Drone Light Show
  - Featuring 2 domestic companies and 5 invited countries

03 Meissa（メイサ）

Meissaは、ドローンとAIを活用した空間情報ソリューションで建設業界のデジタル変革を支援する韓国のテクノロジー企業です。

Company Profile

Company Name	Meissa
CEO	Choi Sukwon(チェ・ソクウォン)
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Company Contact number	+82-2-883-2140
Email	info@meissa.ai
Homepage	https://www.meissa.ai/jp (日本語)
Social Media	Facebook https://www.facebook.com/share/1C4S2k7xxW/ Linkedin https://www.linkedin.com/company/meissa-ai/

Company & Business Overview

Meissa（メイサ）は、建設・インフラ分野向けにドローンを活用した空間情報ソリューションを提供する韓国のテクノロジー企業です。ドローン画像、写真測量、衛星データを活用し、現場管理を効率的かつ正確に行うためのプラットフォームを開発・提供しています。
当社の主力製品である「Meissaプラットフォーム」は、建設現場を遠隔でモニタリング・管理できる機能を提供し、生産性の向上や手戻りの削減に貢献します。高精度な2D/3Dマップ、標高モデル、体積計測などを低誤差で提供し、ゼネコン、エンジニアリング企業、インフラ運営事業者のニーズに対応しています。
また、ドローンとAIによる植生分析を活用したゴルフ場・芝管理向けのスマートソリューション「Meissa Green」も展開しています。
韓国に本社を構える当社は、日本をはじめとする海外市場にもサービスを提供しており、現地に根ざした技術サポート、トレーニング、コンサルティングを通じて高い顧客満足を実現しています。
Meissaは、空からのテクノロジーとデータ主導のインサイトを組み合わせ、建設業界のデジタル変革を推進してまいります。

Products, Services & Solutions

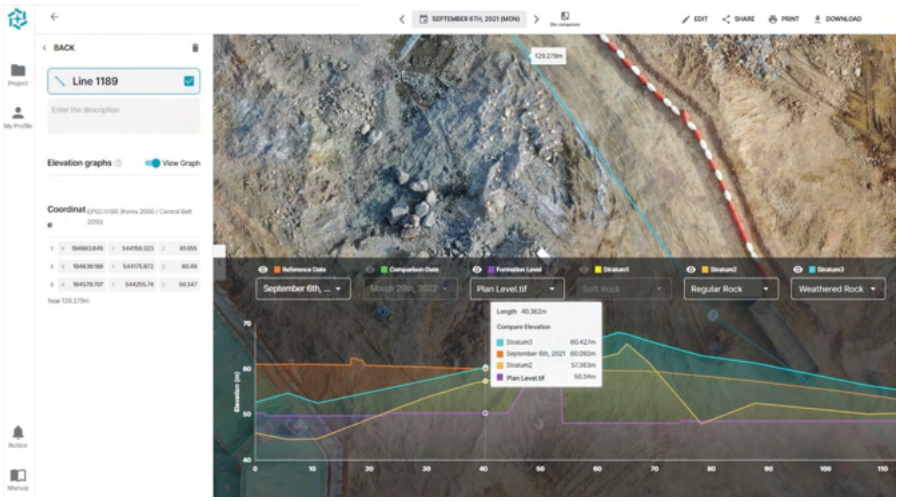
❶ Meissaプラットフォーム

スマート建設のためのデジタルツイン型ドローンソリューション

Meissaプラットフォームは、建設・インフラ分野向けに空撮画像を実用的なインサイトへと変換するクラウドベースのソフトウェアソリューションです。ドローン写真測量、衛星データ、AI処理を統合することで、いつでもどこでもWebおよびモバイルアプリからリアルタイムで現場を遠隔管理・進捗モニタリングすることが可能です。

▶ 主な機能：

- 自動2D/3Dマッピング：ドローンで撮影した画像をもとに、オルソモザイク、DSM（デジタル表面モデル）、DTM（デジタル地形モデル）、3Dメッシュモデルを自動生成し、5cm未満の高精度を実現します。
- 進捗モニタリングと比較：複数のデータセットをタイムラインで比較し、建設の進捗状況を視覚的に把握できます。
- 体積・面積の測定：プラットフォーム上で直接、切土・盛土やストックパイルの体積・面積を高精度に計算可能です。
- クラウドベースでのアクセス：共有リンク、注釈ツール、リアルタイムでのコラボレーション機能を備えています。
-システム連携対応：各種ドローンに対応しており、BIM/CADとの連携を可能にするオープンフォーマットをサポートしています。
- モバイルアプリ対応：Meissaのモバイルアプリと完全に同期し、現場でのデータ閲覧や作業記録が可能です。
- 安全管理ツール：作業員のGPSによる位置追跡、危険エリアのジオフェンス設定、出退勤管理機能により、事故を防ぎ現場の安全性を向上させます。
- 屋内現場管理：360度カメラとの連携により、屋内環境の撮影・管理にも対応しています。



▶ 技術的ハイライト：

- フォトグラメトリエンジン：自社開発の独自エンジンを採用し、高速かつ高精度な処理を実現。
- 高精度：GCP（地上基準点）に対応し、水平・垂直ともに±5cmの誤差範囲を確保。
- スケーラビリティ：複数現場の同時管理に対応し、安全なクラウドホスティングとスケーラブルな処理パイプラインを提供。

▶ 適用分野：

土木工事、道路・トンネル建設、港湾、エネルギーインフラ

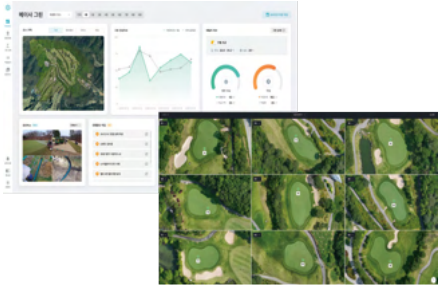
❷ Meissa Green　ドローン＆AIによる芝管理ソリューション

Meissa Greenは、ゴルフ場、公園、芝地施設向けに開発されたスマート管理システムです。マルチスペクトル画像とAIアルゴリズムを活用し、植生の健康状態、土壌コンディション、灌漑の必要性を高精度に分析します。

▶ 主な機能：

- 植生指数マッピング（NDVI）：芝の健康状態をモニタリングし、早期のストレス兆候を検出。
- 灌漑・病害診断：過剰灌水・過少灌水エリアや害虫被害の兆候を特定。
- 日報管理機能：日々の作業記録を簡単に作成・共有でき、業務効率とチーム間のコミュニケーションを向上。
- カスタム飛行計画：一貫性のある再現可能なデータ取得を可能にする事前設定飛行ルートに対応。

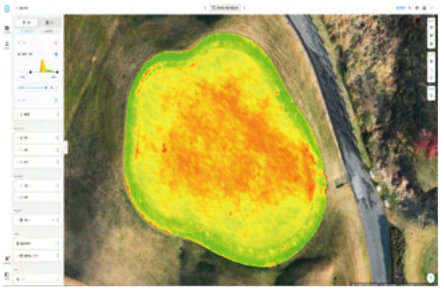
▶ 技術的ハイライト：



- マルチスペクトル・光学・サーマルカメラ対応：マルチスペクトル（例：DJI Mavic 3 Multispectral、Phantom 4 Multispectral）、RGB光学、サーマルカメラなど、幅広いセンサーに対応。
- AIによる芝分析：韓国内のゴルフ場データをもとに学習させた独自AIモデルを活用。
- クラウド可視化：地図の重ね表示による視覚的分析とゾーン別芝管理に対応。

▶ 適用分野：

ゴルフ場、芝スタジアム、公共緑地、造園・緑地管理業者



04 Vololand

VOLOLAND develops advanced drone infrastructure and autonomous flight systems, serving sectors like defense, disaster response, logistics, and urban air mobility.

Company Profile

Company Name	VOLOLAND Inc.
CEO	AN SUNG HO
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Company Contact number	+82-70-4001-0220
Email	drone@vololand.com
Homepage	www.vololand.com

Company & Business Overview

VOLOLAND is a South Korea-based technology company specializing in advanced drone infrastructure and autonomous flight systems. We develop and manufacture intelligent drone stations, high-performance flight controllers, and tethered drone platforms that enable fully automated, mission-critical operations across various industries.

In addition to our headquarters in South Korea, we also operate VOLOLAND USA, our U.S. subsidiary based in the state of Georgia.

Our core product line includes the NarinFC flight controller series (H7, H5, H3), which supports both PX4 and ArduPilot ecosystems, as well as multi-format drone stations designed for smart charging, battery swapping, and real-time monitoring. Through our proprietary technologies and integrated solutions, we deliver unmatched reliability, scalability, and operational efficiency.

VOLOLAND serves key sectors such as national defense, disaster response, logistics, and urban air mobility. We collaborate with government agencies, military units, research institutes, and private companies to accelerate the deployment of unmanned systems and shape the future of aerial technology.

At VOLOLAND, we are not just building drones. We are building the foundation for the future of autonomous flight.

Products, Services & Solutions

1. NarinFC (Flight Controller) - The most advanced and reliable flight controller developed in South Korea

The NarinFC is a flight controller developed with the latest high-performance sensors. The FC accurately controls the operation of an aircraft and detects delicate movements and changes in real time. NarinFC is a key component that increases both stability and performance.

1.1. NarinFC-H7

NarinFC-H7 – High-End Flight Controller with Premium IMU
NarinFC-H7 is equipped with a high-performance processor and a high-end IMU, delivering precise control and fast response for complex and demanding drone operations. Ideal for industrial and advanced autonomous applications.

- Main FMU Processor: STM32H743
- On-board sensor: ADIS16470, BMI088, RM3100, MS5611
- Weight: 106g

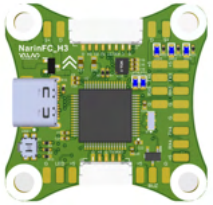
1.2. NarinFC-H5

NarinFC-H5 – Mid-Tier Flight Controller with Balanced Performance
NarinFC-H5 features a mid-grade IMU and optimized processing capabilities, offering stable and efficient performance for general-purpose drones such as inspection, monitoring, and surveillance platforms.

- Main FMU Processor: STM32H743
- On-board sensor: ICM45686,ICM45686, RM3100, MS5611
- Weight: 106g

1.3. NarinFC-H3

As the most compact model in the NarinFC lineup, the NarinFC-H3 is optimized for high-speed FPV and racing drones, offering precise control in a lightweight form factor.



· Main FMU Processor: STM32F405
· On-board sensor: ICM42688-P, BMP280
· Size: 38 * 37

2. NarinGPS-RTK

NarinGPS-RTK uses the u-blox F9P module for centimeter-level accuracy, ideal for high-precision drone operations. With UAVCAN support, it ensures reliable communication and easy integration with NarinFC flight controllers.

· Ublox F9P GPS(Moving base for heading)
· STM32F412 MCU
· ICM42688-P, BMM150, BMP390

3. SLAMer (AI Edge Computer)

Edge computers perform real-time data processing and analysis to quickly process a variety of information that occurs during flight.

· NVIDIA GPU Soc Module Compatibility – NVIDIA Jetson Nano, Xavier NX
· Input Power: 48VDC, 5A
· Output Power: 5VDC/3A, 12VDC/2.5A, 24VDC/3A

4. NarinFC-T1 (Triple-Redundancy Flight Controller)

NarinFC-T1 prioritizes aircraft safety during flight through FC triplex technology. This technology determines whether the flight controller is malfunctioning in real time and ensures safe flight even when problems occur during flight.

5. VL-2240 (Hercules, Delivery drone)

Heavy Payload Delivery Drone is engineered to carry and deliver large, heavy packages with precision and efficiency. Designed for high-capacity logistics, it ensures fast and reliable deliveries, making it ideal for industrial, commercial, and remote area applications.

· Wheelbase : 2240mm
· Size : 1660*1710*1260mm
· Max Payload : 40kg (20min)
· Operation temperature : -20~40°C

6. VL-1300 (MARS, Wired drone)

Long-Duration Tethered Drone offers continuous power for extended flight times, making it perfect for construction sites, surveillance, and communication relay operations. With its ability to provide stable, uninterrupted flight, it ensures reliable monitoring, data collection, and connectivity in challenging environments.

· Wheelbase : 1300mm
· Size : 1050*1050*625mm
· Max Payload : 8kg
· Operation temperature : -20~40°C

7. Automatic cable winder

The automatic cable winder is a device that stores and manages cables for power supply to wired drones. It performs the function of unwinding and winding the cable without supplying power.

· Size : 840*615*410
· Max Cable length : 200m (Length adjustable)
· Operation temperature : –20~40°C

05 PABLO AIR

PABLO AIR is a Korean drone tech leader in swarm control, delivery, and aerial shows, with global recognition and full-stack capabilities.

Company Profile

Company Name	PABLO AIR
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Company & Business Overview

PABLO AIR is a leading drone technology company established in 2018, driven by the motto "Innovation + Mobility." With over 150 professionals, we are committed to shaping the future of sustainable mobility.

Our core technologies, Swarm Coordination Technology and the Swarm Control Platform, power our diverse business areas, including defense solutions, drone art shows, and Swarm Applications such as drone inspection, delivery, and urban air traffic management (Urban ATM).

We develop and export a wide range of products in-house, including drone for shows, defense, and delivery, as well as integrated management and control software for UAM and defense applications.

We collaborate with the Defense Acquisition Program Administration and Agency for Defense Development in South Korea to conduct R&D and government projects, and we are the only startup participating in the Korean Ministry of Land, Infrastructure and Transport's UAM commercialization consortium.

In the drone show sector, we operate over 200 performances annually across South Korea, the U.S., and Vietnam, and hold three Guinness World Records using our self-developed firework drones.

We possess full-stack capabilities for end-to-end drone delivery services, and previously partnered with 7-Eleven to operate a drone delivery center. We are also actively involved in national and municipal drone demonstration city projects in Korea, leading efforts toward commercializing drone delivery.

Expanding into the inspection field, we are developing AI-powered drone inspection technology for aircraft.

Thanks to our innovative efforts, PABLO AIR has been globally recognized — winning 2nd place in the AUVSI XCELLENCE AWARD for two consecutive years, receiving a CES 2024 Innovation Award in Smart City, and ranking 1st in Asia and 9th globally for drone delivery services.

Products, Services & Solutions

PabloX F40

The F40 is a patented fireworks drone, uniquely designed for drone light shows with dual-fireworks capability. This Guinness World Record-holding model is an innovative product that has set three world records, standing at the forefront of drone show technology.

With 24 frames-per-second precise light rendering, the F40 delivers cinematic-level visual effects, offering a smooth and immersive experience to audiences.

Its fireworks brackets and batteries are designed for easy attachment and detachment, allowing for intuitive operation by any user. Moreover, the F40 ensures stable flights even in adverse weather conditions, with wind resistance up to 10 m/s.

The F40 has received multiple patents and safety certifications, and proudly holds FCC and CE certifications, which validate its compliance with international safety and performance standards. With this level of proven safety and technological excellence, the F40 is a trusted and leading solution in the global drone show industry.

· Dimensions : W420mm * L420mm *H165mm
· Weight : 1,060g(w/o battery(605g)
· Flight Time : 15min(w/o payload) / 12 min(with payload)
· Max Payload : 340g
· Flight Speed : 10m/s(recommended)
· Wind Resistance : 10m/s
· Water Resistance : iPX4 level
· Communication : vWifi 5.8GHz / LoRa 900MHz

Smart CLS

SmartCLS is PABLO AIR's innovative all-in-one solution that enables storage, charging, and deployment from a single launchpad. It drastically reduces the preparation and execution time of drone shows, maximizing operational efficiency while minimizing storage and operating costs for smarter resource management. Its compact design ensures convenient operation and rapid deployment. SmartCLS is a next-generation integrated solution that enhances both the quality and cost-effectiveness of drone shows.

PabloX A20

The A20 is Korea's first unmanned autonomous water cluster drone, designed to deliver spectacular aquatic performances using LEDs, fountains, and fireworks across rivers, lakes, and ocean environments.

It supports customizable configurations of various visual elements such as fireworks, LED lighting, and lasers to suit different performance needs. Equipped with high-capacity batteries and GNSS-based precision positioning technology, the A20 enables stable operation for over 8 hours.

Its robust design allows it to withstand the recoil force of aerial fireworks, ensuring accurate execution of complex routes, even in harsh marine conditions.
Additionally, it can be outfitted with water purification equipment for eco-friendly applications and holds patents for both the water performance drone system and its control algorithm software, reinforcing its position as a leading solution in the global water-based drone show market.

· Dimensions: W1,000 x L1,000 x H400 mm
· Payload Capacity: 20 kg
· Maximum Speed: 5 knots (approx. 2.5 m/s)
· Hull Weight: 19.6 kg (including battery)
· Operating Time: 500 minutes
(up to 8 hours with maximum payload)
· Battery: LiPo (6S / 22,000mAh x 2)

PabloM Series S10s

The PabloM S10s is a loitering munition drone designed to neutralize enemy defense systems and maximize target elimination capabilities through simultaneous or time-staggered swarm direct-impact attacks.

Built on the K-MOSA (Korean Modular Open Systems Approach) framework, it features modular mission equipment that enables rapid replacement and integration, allowing for flexible operation across a wide range of missions.

Constructed from foam board materials, the S10s ensures ease of material sourcing and processing, supporting fast and scalable mass production.

With its powerful tactical performance and operational flexibility, the S10s offers a distinct competitive edge in the defense sector.

· Empty Weight : 3.2kg (including battery)
· Max Payload : 1kg
· Flight Time : over 30min
· Flight Range : 38km
· Max Speed : 42m/s (150km/h)
· Dimension : W1,300mm × D1,082mm × H225mm
· Payload : Warhead + Nose Modules
· Production lead-time/1EA : Depends on quantity

PabloM Series R10s

The PabloM R10s is a long-range swarm-based surveillance and reconnaissance drone capable of rapidly acquiring battlefield intelligence.

By forming coordinated drone squadrons, it can carry out wide-area and multi-directional reconnaissance missions.

Equipped with a mesh-based data link, it enables real-time sharing of target coordinates, enhancing both the speed and accuracy of intelligence delivery.

Its modular wing system allows for flexible switching between extended endurance and high-speed maneuverability, ensuring mission optimization across various operational scenarios.

· Empty Weight : 25kg (including battery)
· Max Payload : 3kg
· Flight Time : over 120min
· Flight Range : 140km
· Cruise Speed : 20m/s (72km/h)
· Dimension : W3,800mm × D2,220mm × H630mm
· Payload : EO/IR
· Production lead-time/1EA : Depends on quantity

06 DSK 2026

DSK is Asia's top drone and future mobility expo, attracting global participants and showcasing cutting-edge tech in drones, UAM, and aerospace.

Company Profile

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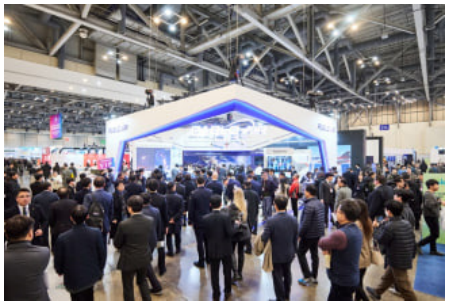
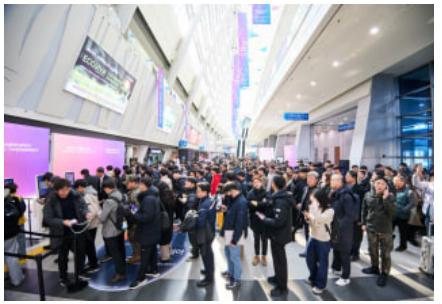
Company & Business Overview

DSK is Asia's leading exhibition and conference covering the full spectrum from drones to aerospace and future mobility. At DSK 2025, 306 companies from 15 countries participated, with 1,130 booths and over 40,000 visitors in attendance. Co-hosted by major Korean government ministries and the Korea Aerospace Administration, the event highlighted the latest innovations in drones, urban air mobility (UAM), artificial intelligence, geospatial technologies, and aerospace. DSK 2026 will take place from February 25 to 27, 2026, in Busan, South Korea.





Products, Services & Solutions

Participating in DSK provides exhibitors with strategic opportunities to engage with industry leaders, government agencies, and global buyers in the UAV and future mobility sectors. Beyond exhibition space, DSK offers a variety of value-added programs including networking receptions, company pitch sessions, and open seminars for product and technology presentations. Exhibitors can also benefit from targeted business matchmaking, media exposure, and on-site buyer consultation programs, enabling meaningful connections and enhanced visibility in both domestic and international markets.

JAPAN DRONE 2025
KOREA PAVILION

KIAST Korea Institute of Aviation Safety Technology

Contact
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