Safety Creates the Future

WEFLO makes human time more valuable through innovation in mobility.

WEFLO

WEFLO: An AI Diagnostics Platform for Future Mobility

WEFLO collects condition data from drones, UAVs, AAM aircraft, EVs and other forms of mobility, using AI to detect anomalies and enable safe, reliable operations.

Founded as a Hanwha Systems spin-off, WEFLO leverages defense and aerospace expertise to raise the bar for safety.

Total Funding	USD 8.7M (Series A)
Employees	38 (12 M.S./Ph.D. holders)
Core Service	Mobility Inspection & Diagnostics Platform
Industries	Electric mobility (drones, eVTOL, vehicles, robots) manufacturing & maintenance
Offices	Pangyo | U-Space 1, Bldg. A, Suite 409, 660 Daewangpangyo-ro, Bundang-gu, Seongnam Jeonju | Ground X, 889 Girin-daero, Deokjin-gu U.S. | Signal X, 3003 N First St, San Jose, CA 95134

Spin-off Hanwha Systems

Accelerated by STARBURST

Spin-off

Hanwha Systems

Cumulative Investment

USD 8.7M

Government R&D Funding

USD 9.6M

Business Areas

Defense, Aerospace,
Wind Power, Data Centers

Core Technologies

Multimodal Sensors
Edge AI Processor
AI Ontology Platform

Service Platform

FloONE

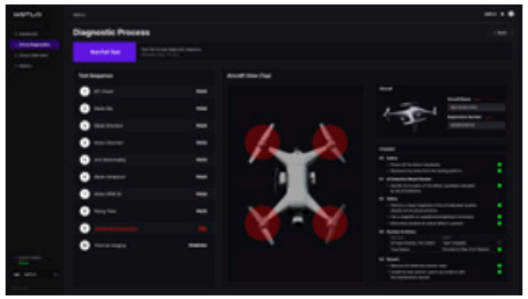
AI Software That Turns
Inspection Data into Intelligence

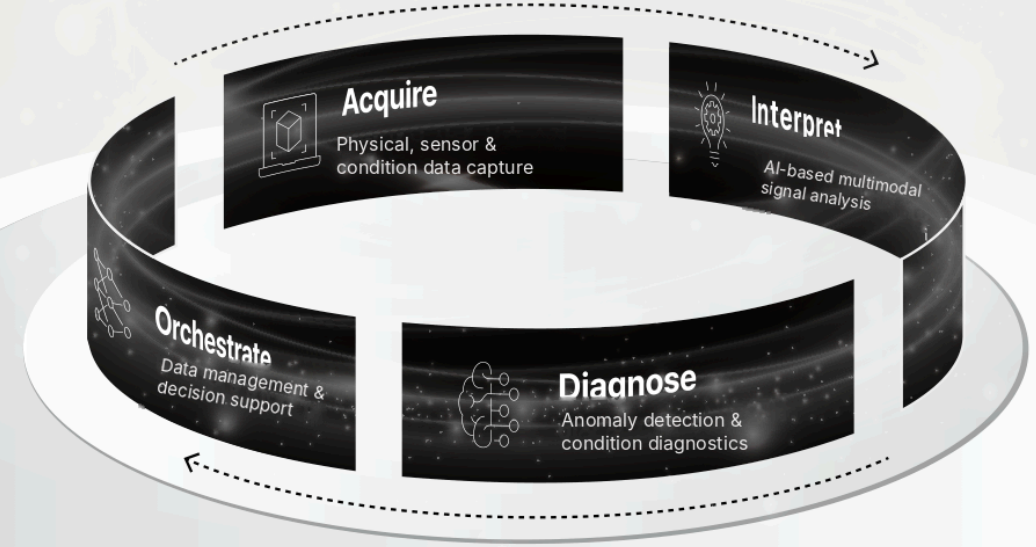
FloONE AI Suite

FloONE AI Suite analyzes data from manufacturing and field inspections, supporting quality control and operational decisions.

FloONE AI for Manufacturing

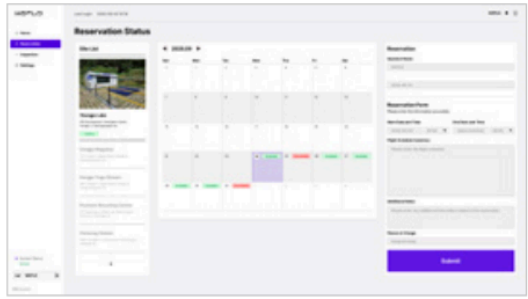
Automates end-of-line (EOL) quality inspections with AI.





FloONE AI for Operations

Integrates inspection, maintenance and asset histories in the field.



FloONE AI Engine Modules

- **Multimodal Fusion Sensors**
- **Signal Processing Noise Filtering**
- **Data-Driven Anomaly Detection**
- **Condition Assessment**
- **Fault Classifying Root-Cause Analysis**
- **Predictive Analytics**

From hardware and AI software to engineering and system integration, we deliver the entire process through one integrated platform.

Manufacturing

From intelligent, non-contact fault detection to precise robotic control, we automate the manufacturing inspection process in one seamless workflow.

Visit our website for product details.

DRQC_01



Integrated motor, structure, and circuit inspections on one line.

DRQC_02



Automatically calibrates six-axis IMU errors for accurate attitude data.

DRQC_03



Calibrates magnetometers in a magnetic chamber for heading accuracy.

DRQC_04



Assesses battery cells, BMS, connectors, and remaining life.

AAM QC



Six-axis robotics and AI inspect large propulsion systems autonomously.

Operations

From mobile stations and robotic inspection to safe storage, one inspection system supports every stage of operations.

Visit our website for product details.

verti-Pit mini



Portable design enables preflight checks without dedicated facilities.

verti-Pit X



Robotic pre- and postflight comparison supports mission reliability.

verti-Pit X mini



One-person portable design enables inspection even without external power.

Battery Cabinet



Safely stores lithium batteries and detects anomalies with real-time alerts.

VAIS



Detects exterior damage and wear as vehicles pass through the gate.

Use cases (Defense)

Military CBM+ Platform

FloONE AI processes and analyzes condition and inspection data collected during military CBM+ operations.
The results are sent to military CBM+ systems to support condition-based maintenance and decisions.

Operations Command Center

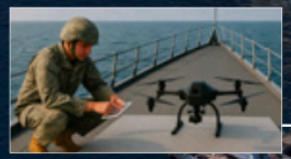
Fleet health monitoring and maintenance decisions



DATA

FloONE AI Platform

AI platform integrating and analyzing aircraft condition data



Maritime Operations Unit

Automated pre-takeoff checks aboard ships



Ground Operations Unit

Automated pre-mission aircraft health checks



Maintenance Unit

Routine inspections and aircraft diagnostics

Use cases (Commercial)

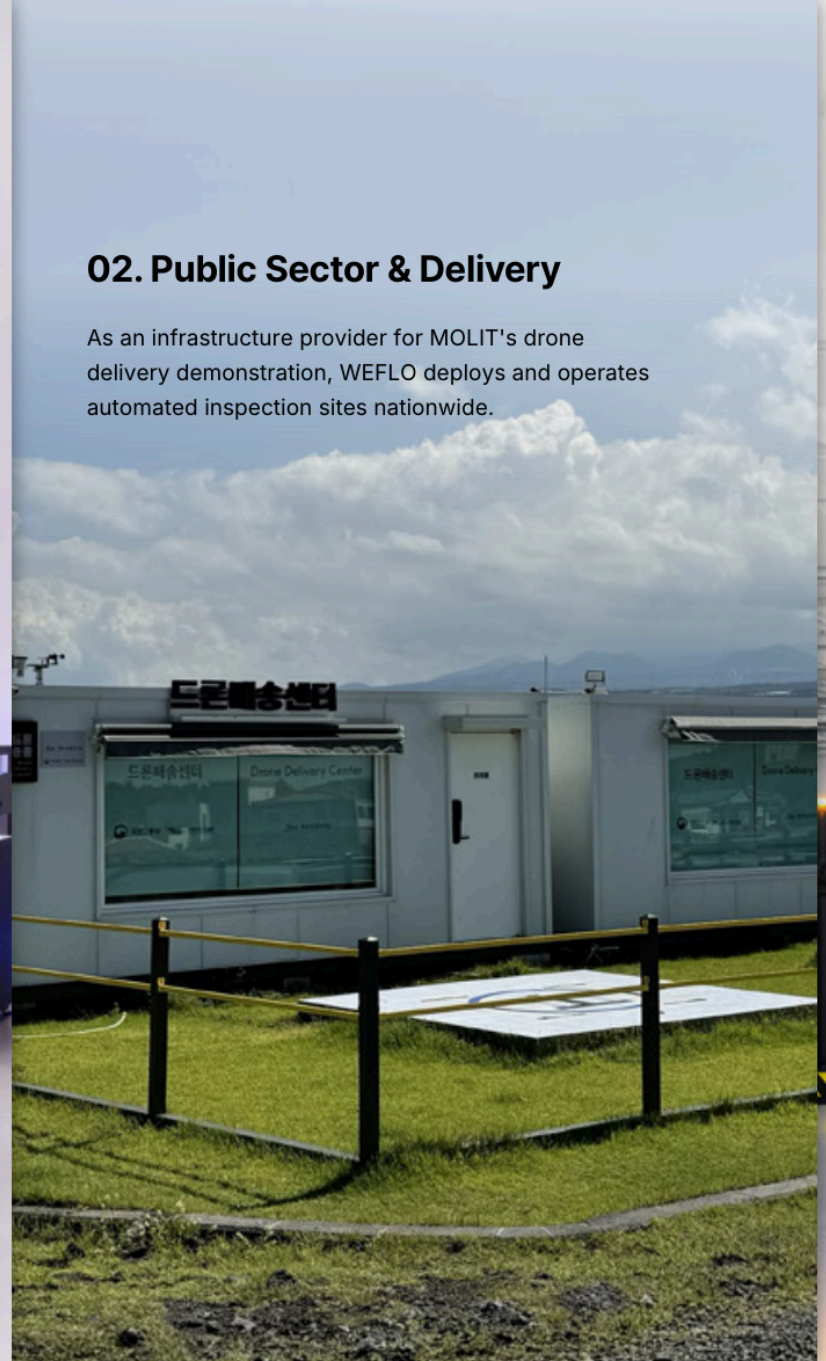
01. Manufacturing

At the end-of-line (EOL) stage of drone production, automated QC standardizes inspection criteria and ensures consistent outgoing quality.



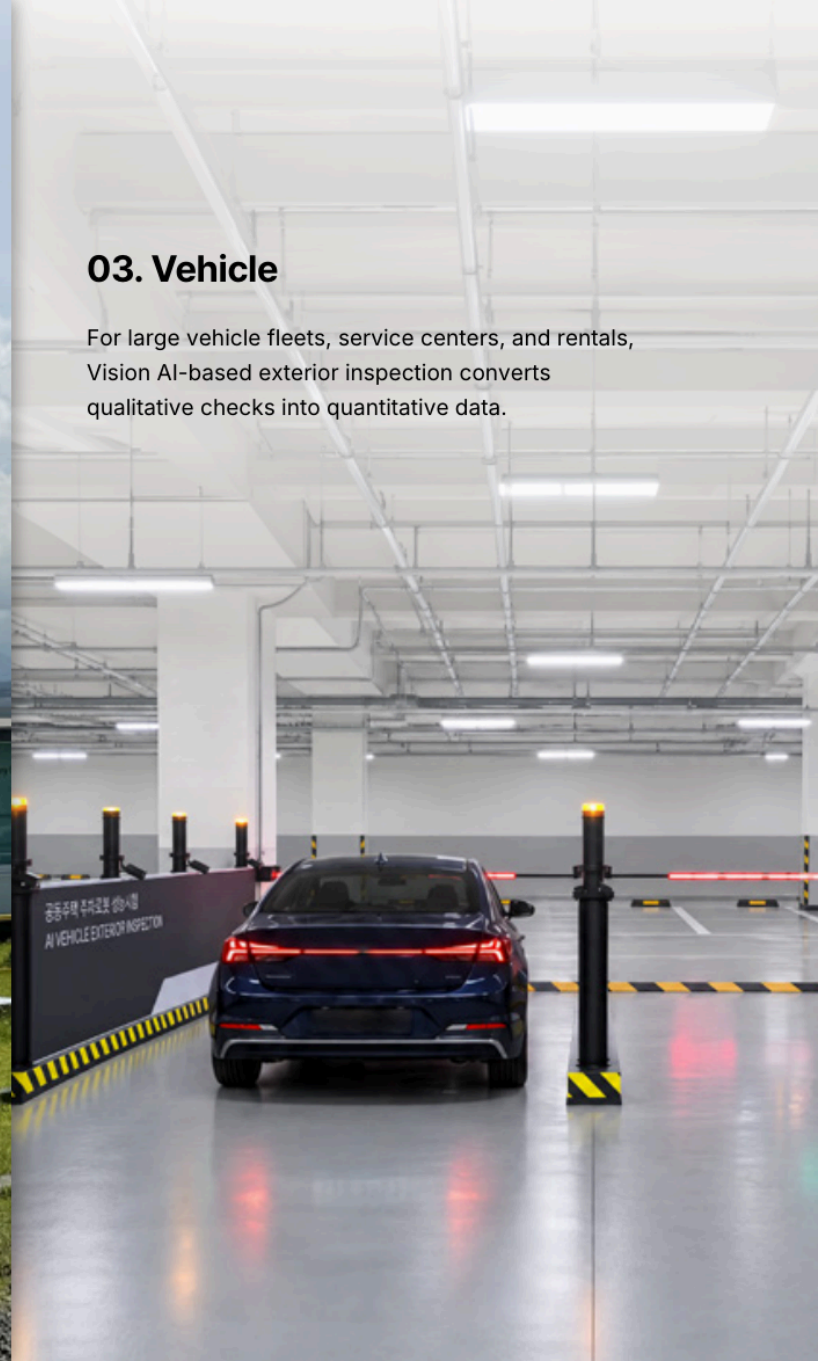
02. Public Sector & Delivery

As an infrastructure provider for MOLIT's drone delivery demonstration, WEFLO deploys and operates automated inspection sites nationwide.



03. Vehicle

For large vehicle fleets, service centers, and rentals, Vision AI-based exterior inspection converts qualitative checks into quantitative data.









Innovation Recognized, **Reliability Proven.**

Government & Public Sector Recognition

Defense Innovation 100 Selection	Government & Public Sector Recognition	Deep Tech Startup 1000+ Selection

Third-Party Technical Validation

Performance Verified by TTA & Others	Technical Accuracy & Reliability Verified	Industrial Application Potential Confirmed

Domestic & International Patents

Domestic & Global Patents Registered	Core Proprietary Technologies	Ongoing Expansion of IP Portfolio

WEFLO History

Foundation
Where It Began



- **04** WEFLO established (Hanwha Systems spin-off)
- **06** Seed funding closed (KRW 800M)
- **07** Selected for TIPS program
- **10** MOU with Georgia Southern University for UAM inspection technology development
- **11** Supply contract for Doosan delivery drones
- **12** Inspection solution supply contract with PABLO AIR

Validation
Real-World Validation



- **04** UK Skyports droneport construction contract
- **05** Selected for MSS Deep Tech 1000+ program
- **06** Pre-Series A funding closed (KRW 3.0B)
- **06** MOU with Volatus Infrastructure (U.S.)
- **09** Built nationwide droneports under MOLIT pilot
- **10** Partnership with SkyDrive (Japan)
- **12** Starburst accelerator agreement

Commercialization
Deployment and Growth



- **03** MOLIT drone delivery commercialization contract
- **04** Joined Georgia DOT AAM Working Group
- **05** Selected for KODIT Pre-ICON program
- **07** Joined NASA AAM Working Group
- **08** Pre-Series A bridge financing (KRW 2.5B)
- **08** Selected for Scale-up TIPS program
- **10** Selected as Defense Innovation Company 100
- **11** Socar MOU and vehicle exterior inspection rollout



- **04** MOU with L2 Aviation
- **05** Pre-development project with Korean AAM OEM
- **07** CEO Eui-jung Kim received a ministerial commendation for unmanned vehicle industry
- **10** Featured in Gartner Emerging Tech report
- **10** Selected for Korea Frontiers
- **12** Excellence Award, 5th Venture & Startup Patent Awards
- **12** Completed Army Dronebot Combat Team field trials

Global Expansion
Toward Safer Mobility



- **01** Selected for Army operational demonstration
- **02** MOU with WB Electronics
- **04** Series A: KRW 5.5B (KRW 11.8B cumulative)
- **05** AI technology cooperation MOU with JIFF
- **05** MOU with Korea Automotive Technology Institute
- **06** Launched FloONE AI dark factory platform
- **07** Selected for Innovation Premier 1000

2022
The WEFLO Story Begins

Built on avionics expertise,
WEFLO entered mobility diagnostics.

2023
Validation & Partnerships

Technology validated in Korea, the UK,
the U.S. and Japan.

2024
Commercial Deployment

Commercial contracts and defense
entry brought solutions to market.

2025
Expanding Across Industries

Expansion into AAM and defense
advanced industry standards.

2026
Into Global Markets

Global defense partnerships and
platform launches drive growth.

Partners

With customers, global partners, and ecosystem programs, we advance standards for mobility safety.

Defense & Global Network







Defense UAV Manufacturer A

Drone Manufacturer B

Autonomous Systems Manufacturer A

STARBURST

WB ELECTRONICS

supernal

AVIATION

Skyports INFRASTRUCTURE

AGS

NASA

GDOT

Hanwha

HYUNDAI

DOOSAN

GS Caltex

KOREAN AIR

LIG Defense& Aerospace

POONGSAN

PABLO AIR

socar

Turu CAR

HYUNDAI ENGINEERING & CONSTRUCTION

PRENEU

UNISON

ALUX

Defense Acquisition Program Administration

REPUBLIC OF KOREA ARMY

REPUBLIC OF KOREA AIR FORCE

KRIT Korea Research Institute for defense Technology planning and advancement

Ministry of Land, Infrastructure and Transport

TS 한국교통안전공단 Korea Transportation Safety Authority

KIAST Korea Institute of Aviation Safety Technology

Safety Creates the Future