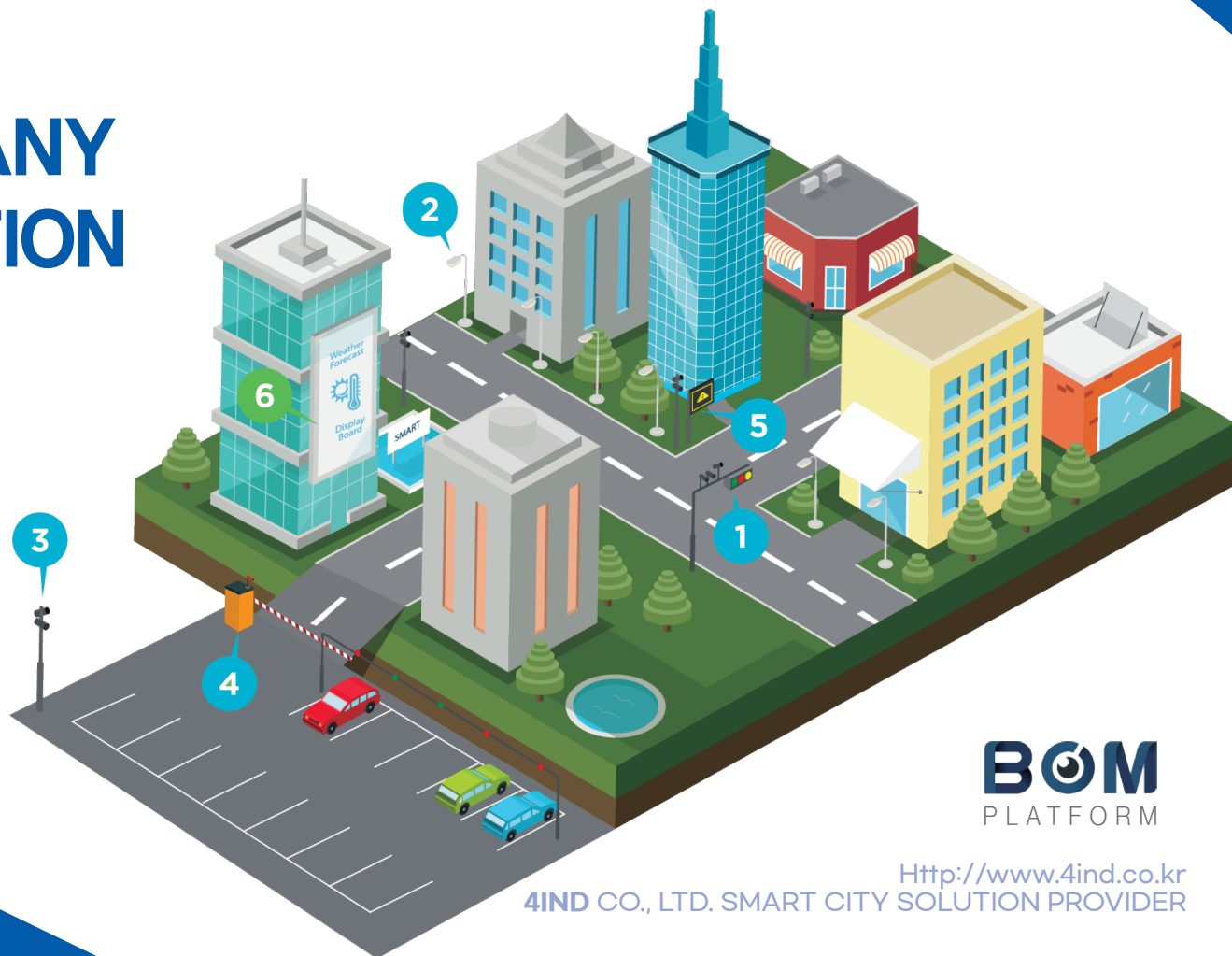




THE COMPANY INTRODUCTION



BOM
PLATFORM

[Http://www.4ind.co.kr](http://www.4ind.co.kr)
4IND CO., LTD. SMART CITY SOLUTION PROVIDER

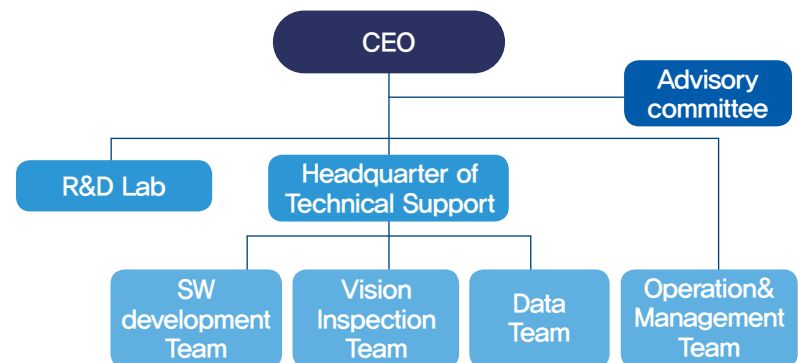
SUMMARY

General Information



Company Name		4IND CO., LTD.	CEO	LEE CHAE SOO
Corporate registration number		176011-0112075	Business registraion number	334-87-00694
Capital		150 million won(KR)	Number of full-time workers	26
Date of establishment		2017.02.02.		
Address	Head office	Unit 320, Mobile Convergence Technology Center, 350-27, Gumi-daero, Gumi-City, Gyeongsangbuk-do (zip 39253)		
	R&D Center	Unit 320, Mobile Convergence Technology Center, 350-27, Gumi-daero, Gumi-City, Gyeongsangbuk-do (zip 39253)		
Business type		SW, HW development(SW development for Smartcity)		

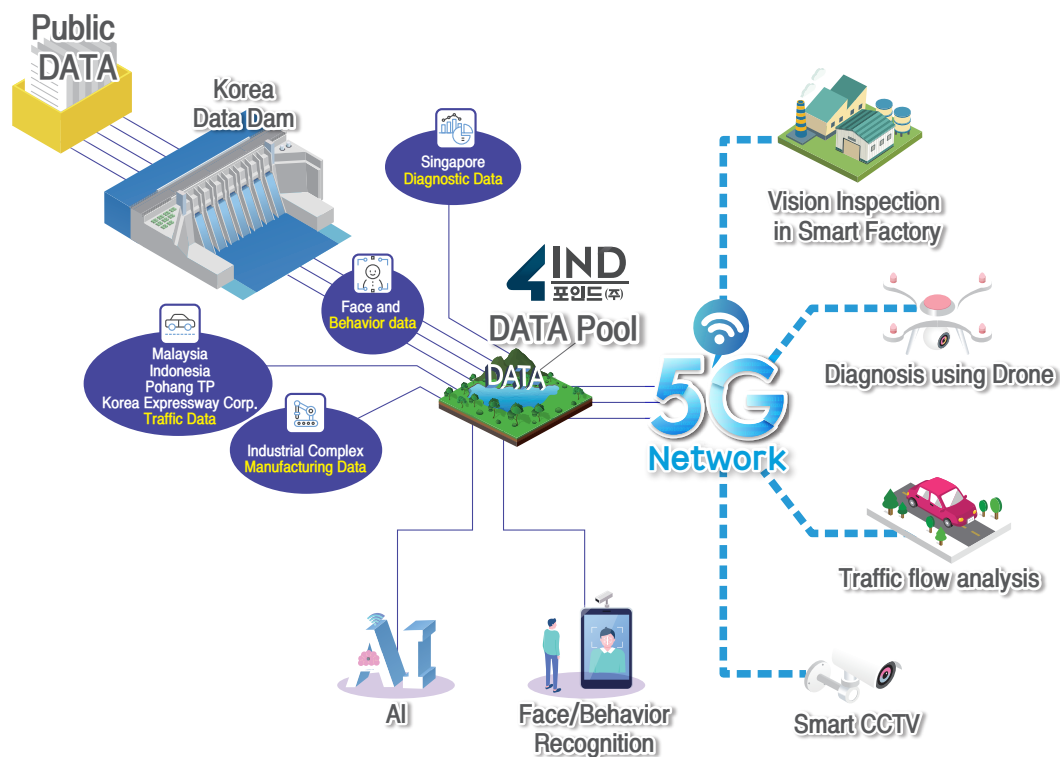
4IND is a company that pursues solution-based services to become a leading company in the fourth industry



Key Products

Technology trends of the 4th Industrial Revolution

4IND DNA (Data, Network, AI) MODEL



• Data collection and System setup

First pilot project
Under Data New
Deal program

Data of face and behavior

"AI catches foreign criminals at immigration" ..Opened "demonstration lab" for recognition track system



4IND, has developed Smart image analysis solution, and its 'AI recognition track system demonstration project' was appointed to build the learning data and verification system until next year

Lead ~ future
ET news

Daegu=Reporter JH Jung

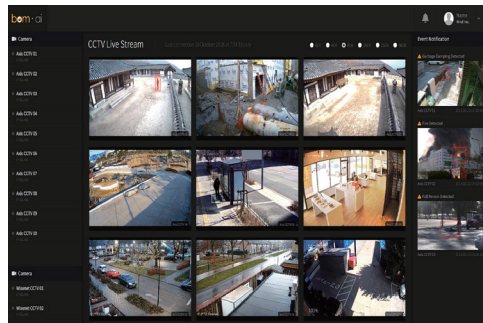
Inspection data using drone



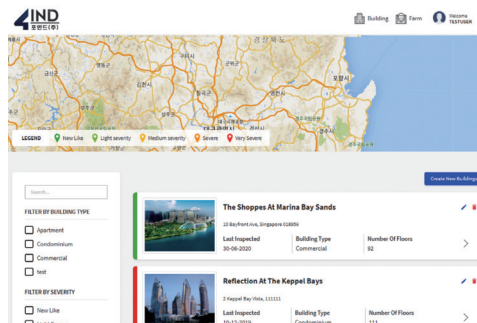
Smart city data



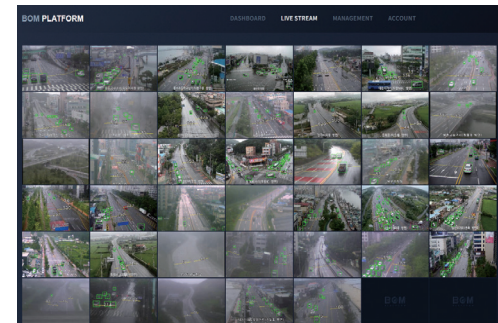
Face/Behavior Data management



Building&smart Farm data management



Traffic data management



Platform-based service

AI (Deep learning)/Big Data/5G
/Cloud computing technology
Application

Smart Solution



Smart
Surveillance



Smart Traffic
Flow Analysis



Facial
Recognition



Drone
Inspection

B O M

Smart City Platform



Information Supply



Variable Message Signs



Internet



Smart Phone

Contents & Services



Traffic

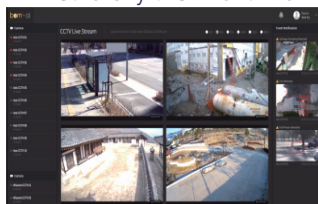


Safety

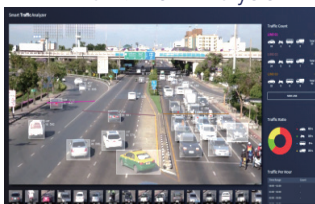


Emergency

▼ Safe City & Surveillance



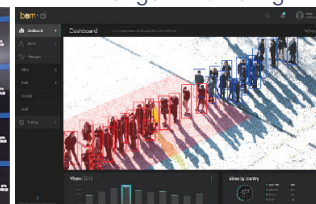
▼ Traffic Flow Analysis



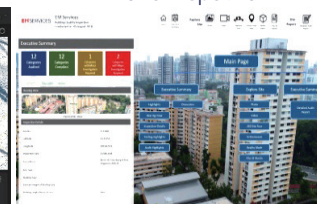
▼ Face Recognition



▼ Intelligent Marketing



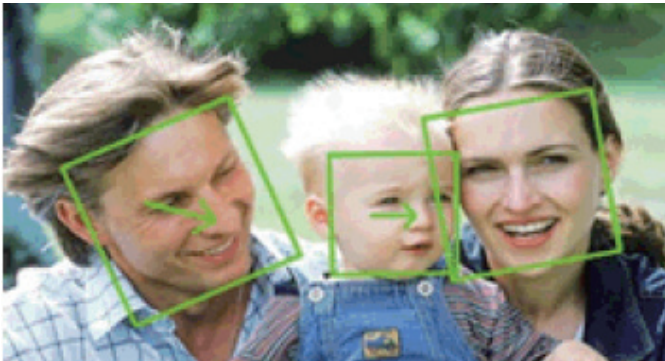
▼ Drone Inspection



- Service 1 within platform

Face Recognition

- Recognize human faces in still images or videos in 1:1, 1:N, N:N situations



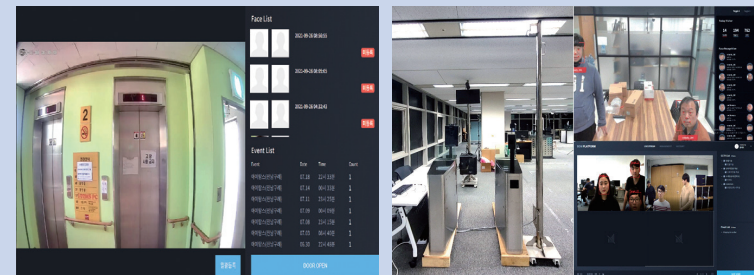
Face detection



Face Recognition

Commercialization

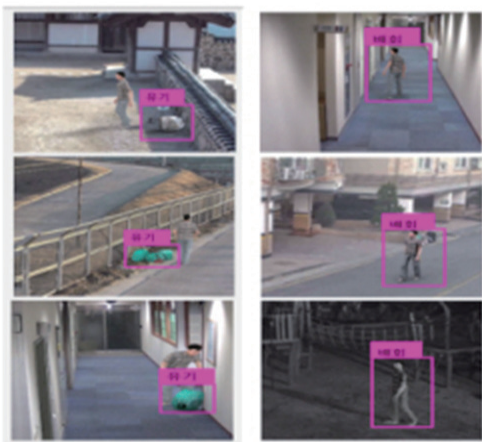
- Unmanned store control (management of access and management of multiple stores simultaneously)



Service 2 within platform

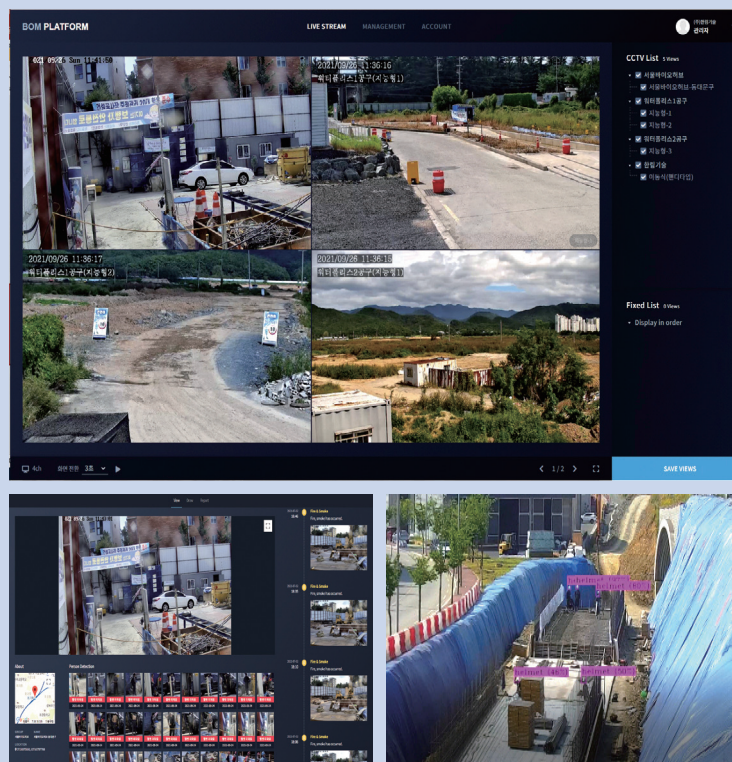
Object Recognition

- Recognize people counting, abandonment, intrusion, prowling, falling, etc.
- Detection of workers not wearing PPE(helmets)



Commercialization

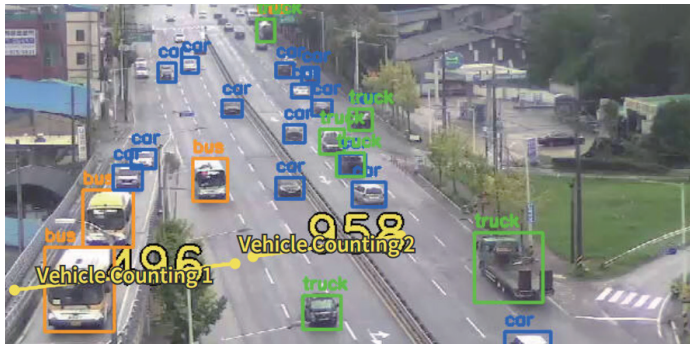
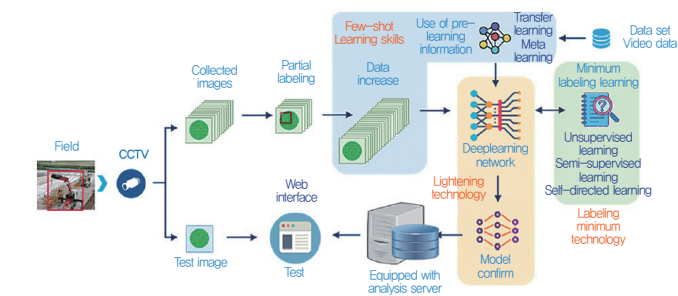
- Construction site, surveillance center (server type, edge type)



Service 3 within platform

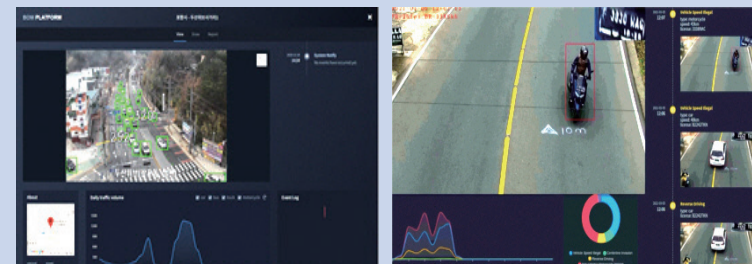
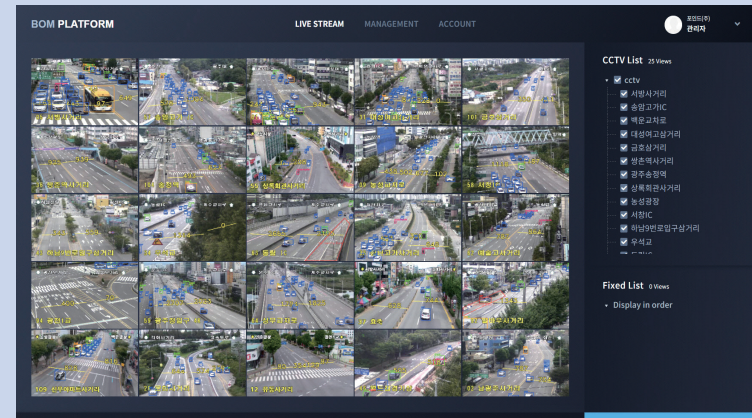
Traffic Analysis

- Vehicle detection, weight reduction, data generation, unsupervised learning, etc.
- Detection by classifying vehicle types



Commercialization

- Big Data Center, Malaysia, Indonesia (violation of traffic laws: reverse driving, speeding, center line violation, not wearing a motorcycle helmet, etc.)



Service 4 within platform

Fire/Smoke Recognition

- UCT-Crime (American standard image, arson, explosion) Learning using Korean intelligent authentication video



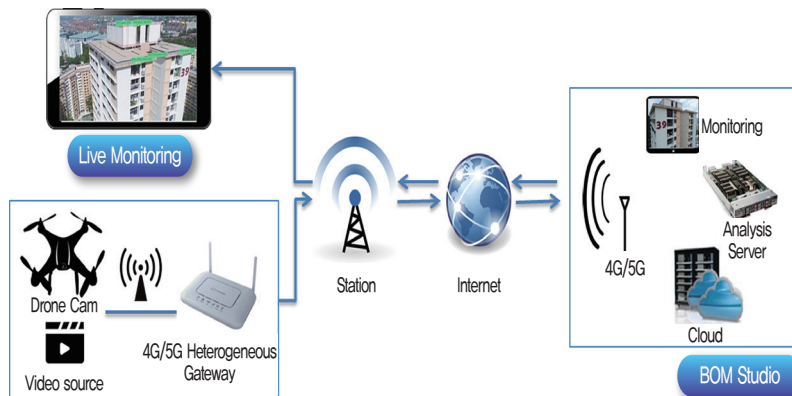
Commercialization

- Japan EdgeMatrix (NTT Docomo subsidiary)

Service 5 within platform

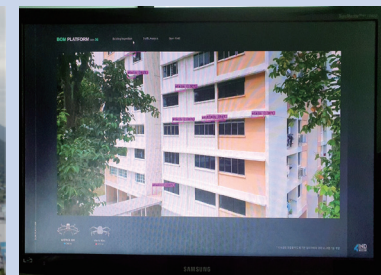
Drone control application technology

- Applied recognition model
 - Applying the latest AI technology (real-time object detection, weight reduction, data generation, unsupervised learning, etc.)
 - Applying it to the perception of dangerous situations (fire, smoke, chemicals, etc.).
 - Application to recognition of dangerous objects and conditions such as traffic flow, buildings/bridge/tunnels, etc.
- Specialized drone operation
 - High-resolution video shooting, RGB/IR video shooting, real-time data transmission, etc



Demonstration and commercialization

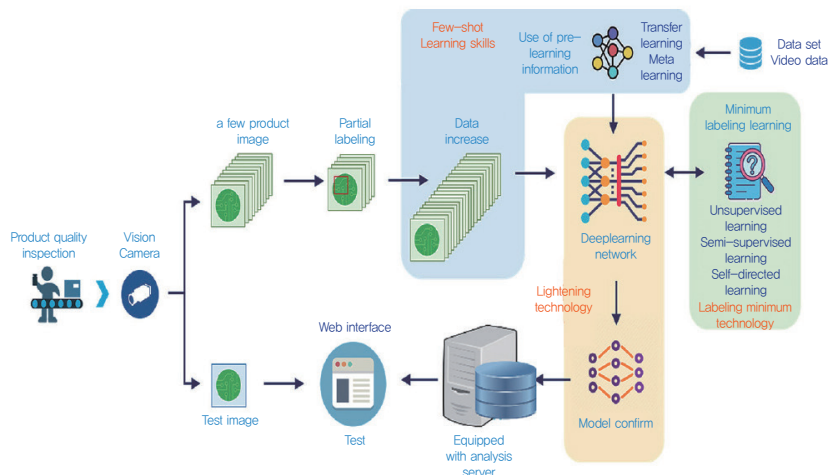
- Gumi National Industrial Complex Control Center (Risk Situation Monitoring)



Service 6 within platform

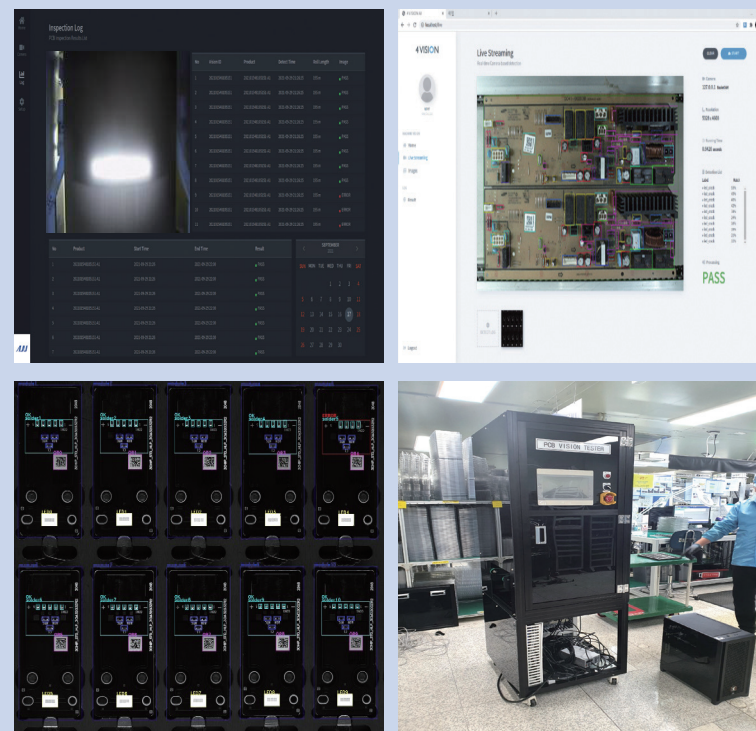
Smart Factory Vision Inspection Application Technology

- Applied recognition model
- Application of the latest AI technology (defect detection, lightening, data generation, unsupervised learning, etc)
- Fine-tuning learning using production site and self-generated data
- High-speed inspection (real-time), micro-defect inspection, and atypical defect inspection



commercialization

- Steel surface inspection, LED surface inspection for vehicles, PCB inspection, fiber production inspection, etc



Integrated platform for system

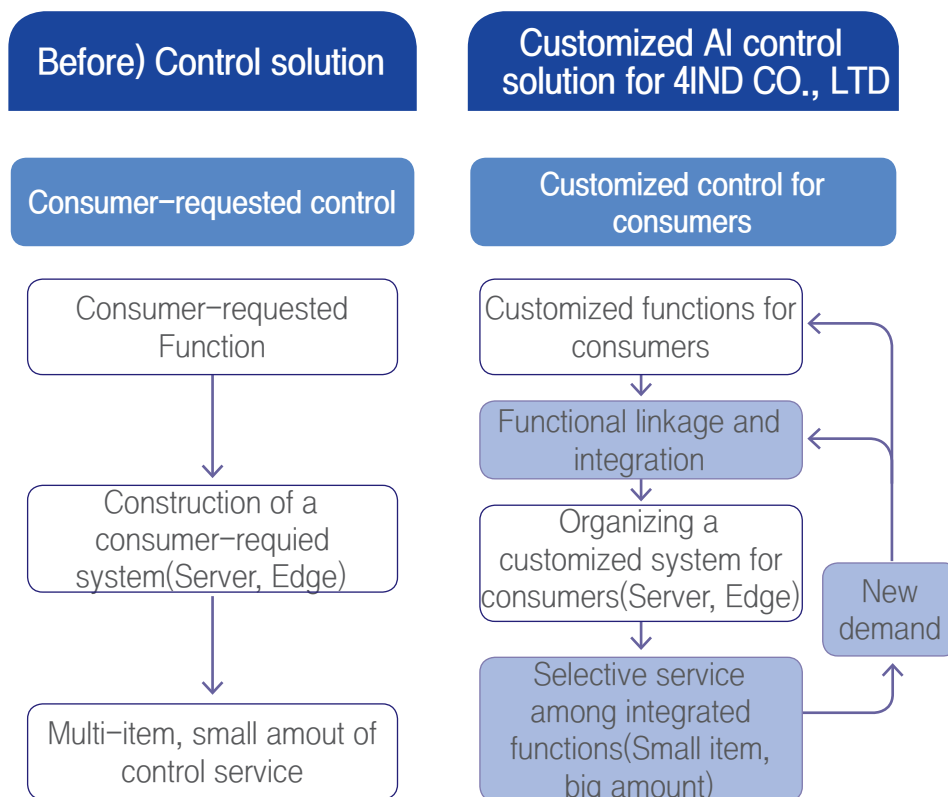
[Integrated platform] Service system setup



Platform service characteristics

Platform-based services

- Individual solutions are integrated and customized



Service contents

- Cloud-based services available overseas
 - Remotely managing users and services
 - The system provided by 4IND is available
 - Customer system is available
- Provide customized capabilities to meet customer needs
 - The customer remotely selects the function and checks the price
 - Verification of product reliability through the use of test service
 - Additional development of functions that reflect customer needs

Global Network

Growing into a global company

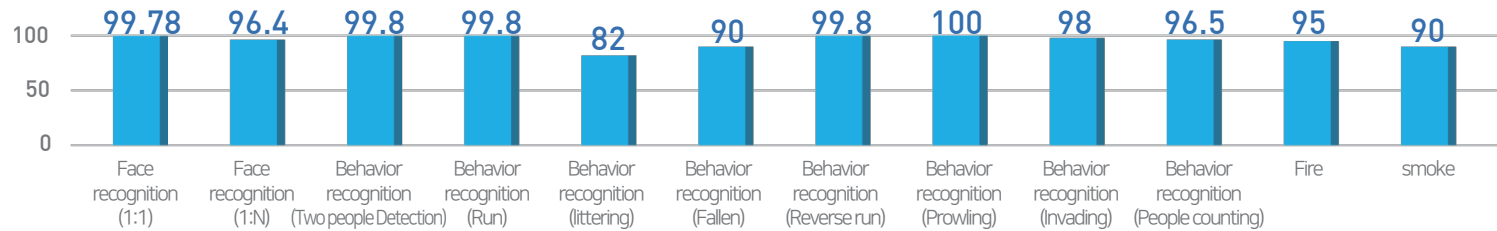
Leaping into a sustainable growth company by diversifying products that meet global standards, diversifying customers, and expanding businesses



Technology

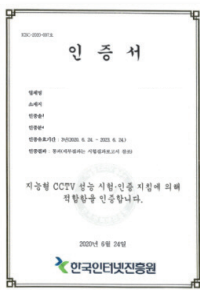
Objectified technology verification

Great performance capabilities can be customized for user needs



Securing a number of intelligent technologies and having a high recognition rate

* International KOLAS Test Report, Intelligent Certification by Korea Internet & Security Agency



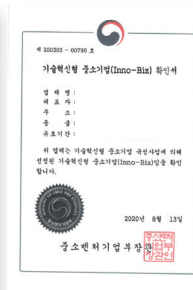
Intelligent CCTV
Certification



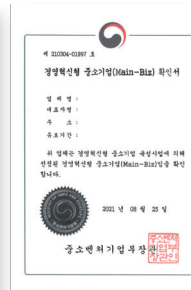
Patent certificate



Trademark
registration card



INNO-BIZ
Certification



MAIN-BIZ
Certification



ISO 9001
Certification



We usher the smart era with
AI vision technology

4IND CO., LTD.

Unit 320, Mobile Convergence Technology Center, 350-27, Gumi-daero,
Gumi-city, Gyeongsangbuk-do (ZIP 39253)

<http://www.4ind.co.kr> 054-456-3401, info@4ind.co.kr

This publication is the result of the project "Development of Millimeter Wave Band 5G Parts Technology based on Microprocess Compound Semiconductor" hosted by the Ministry of Science and ICT and supported by the Information and Communication Planning Agency