



User
Authentication



Blockchain/
AI



Space
Sensing

All
sense

HUMAN SPATIAL AllSense

Space for people IoT service AllSense

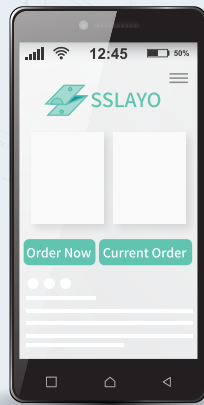


01

Smart connection between people and space

AllSense Application

AllSense **Basic**



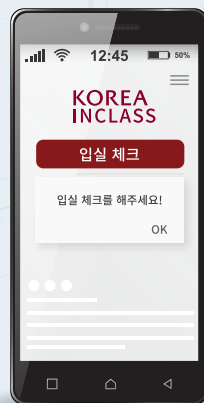
Smart Reservation/Ordering System

Sslayo

Reservation, Cancellation,
Access through smartphone app

- Smart space Reservation
- Smart space Utilization
- Smart space Cancellation

AllSense **Advance**



Smart Attendance Management
System

Inclass

Data detection via Beacon/ Tag

- Entry Registration
- Exit Registration
- Abnormal Body Temperature
Detection



AllSense is a representative brand that combines "ALL" meaning everything, and "Sense" meaning sensation, to express the Internet of Things (IoT) for people, which is a core technological value of Kounosoft Co., Ltd.

AllSense Premium



Smart Spatial Management,
Lab Monitoring System Configuration

Smart Spatial Management System

Data detection via Gateway

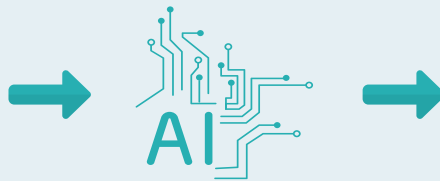
- Temperature
- Humidity
- Fine Dust
- Flame Detection
- Motion Detection
- Sound Detection
- Door Open Detection
- CO2 Detection

AllSense Service

Reservation request



AI-based room assignment



Movement to assigned room via navigation



Maintaining a stepped indoor environment and energy

- Detect temperature, humidity and CO₂
- Interlock/control with air conditioning and ventilation
- Detect user presence
- Linkage/control with lighting and air conditioning equipment



convenient usability and security

- Reservation, cancellation, access through smartphone app
- Thorough security with user identification using DID
- Fire safety and access security



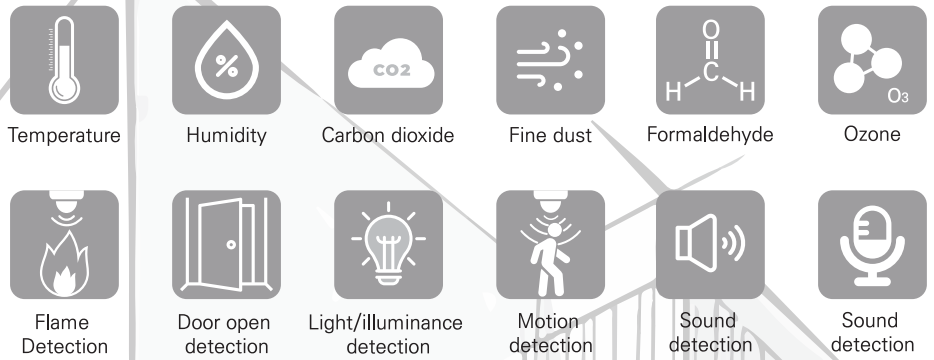
Space utilization performance Maximize management efficiency

- Maximize space efficiency by automatically assigning rooms through AI at the time of reservation
- Maximize utilization by changing internal structure/purpose through analysis of idle space

02

Essential item for optimal indoor environment

AllSense Mini



AllSense Diagram

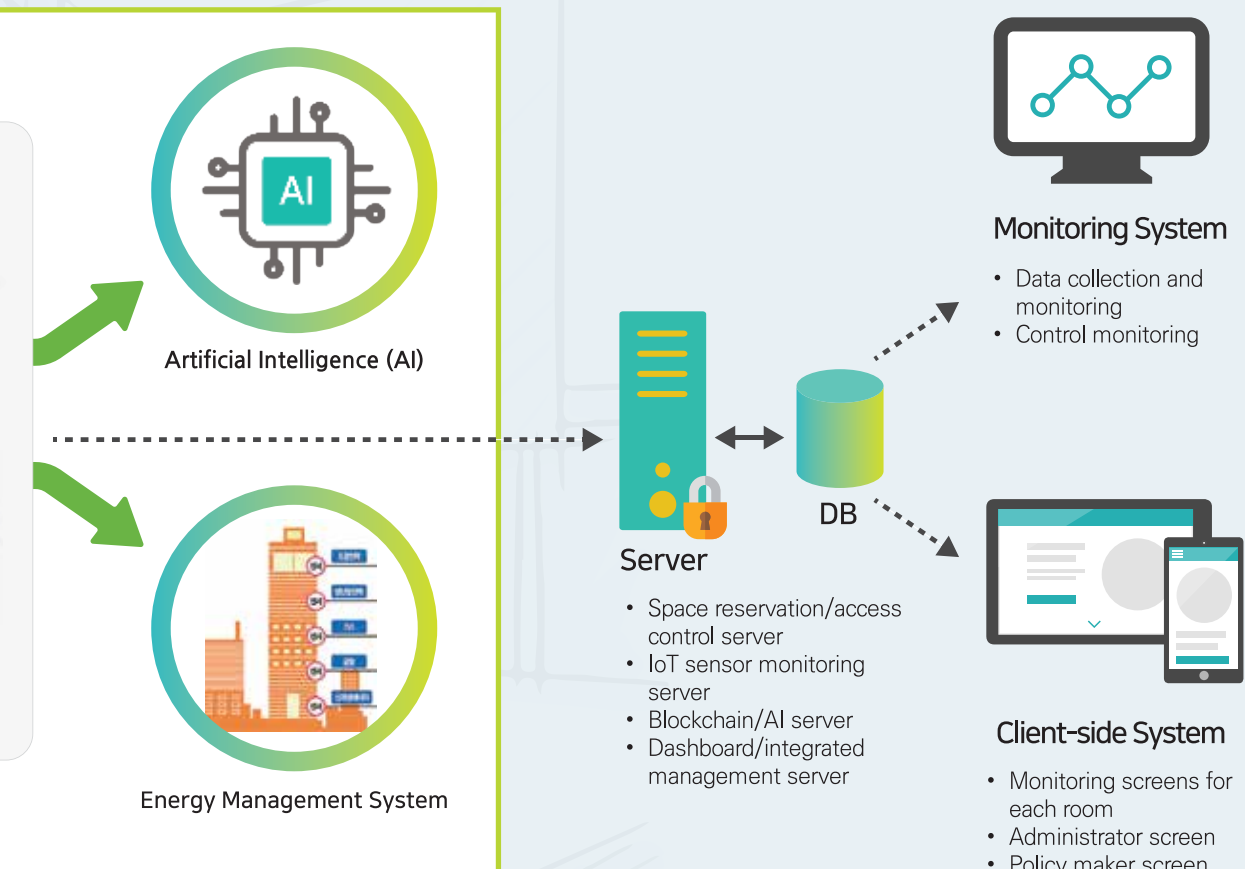


13 sensors, essential for space management

AllSense Light 03

AllSense Mini can monitor **6 sensors** including temperature, humidity, carbon dioxide, motion detection, flame detection, and fine dust. By attaching an RFID device as an additional option, it can be used for asset management and theft prevention, and by inputting IR codes for external devices such as air conditioners, it is possible to control them.

AllSense Light is equipped with **13 sensors** including dust sensor, temperature and humidity sensor, air quality sensor, CO₂ sensor, light sensor, MOS sensor, formaldehyde sensor, ozone sensor, CDS light sensor, SISONIC microphone, microphone, flame detection sensor, and motion detection sensor. It continuously sends data to the server at regular intervals, and the data from these sensors can be viewed and managed on the server.



04

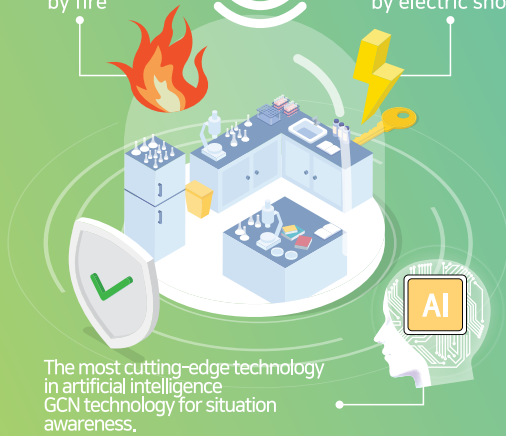
Prevention of accidents in smart factories and laboratories

AllSense Edge

AllSense Edge
Collecting spatial data with 7 sensors



accidents caused by fire accidents caused by electric shock



IoT Gateway	Monitoring	Real-time notification	External specialized sensor device
7 composite sensors for temperature, humidity, fine dust, and more.	Real-time monitoring anytime, anywhere	Real-time app push notifications for accident prevention and response.	Providing RS-232, RS-485 ports, allowing for additional external sensor devices to be connected.

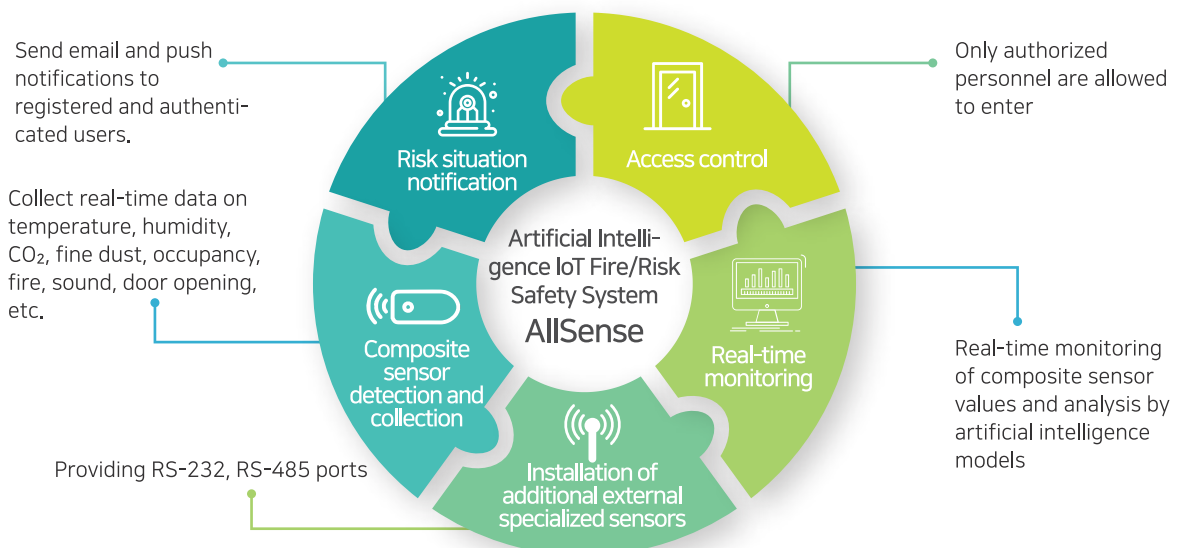
[Fire accident prevention and response]
Fire occurrence → **site alarm sound** → **fire type identification.**

- Types of fire
- 1** Electric fire
 - 2** gas leak
 - 3** fuel fire

Applying the latest AI model GCN
(Graph Convolutional Networks)

AllSense Functionality / Characteristic

Real-time sensor data analysis and risk prediction using artificial intelligence IoT edge technology



Kounosoft HISTORY

Since its establishment in 2009, **Kounosoft Co., Ltd.** has been continuously developing its expertise in IT technology development, including IoT, security, artificial intelligence, blockchain, and more. As a specialized IT solution provider, Kounosoft delivers high-quality global standards and complete IT solutions to help customers realize their value.

Major History

2022

- Commendation from the Minister of Science and ICT, Chairperson of International Convention on Industry-Academia Collaboration 2022
- Establishment of ESG-based Smart Campus Asset Management Platform (Korea University)
- Construction of Korea University Mobile Integrated App - Location-based Service (Korea University)
- AI-based illegal replication product detection system project (NIPA)
- Contract for Smart Energy Campus Service Business at Korea University - Establishment of Carbon-neutral Asset Management System (SK Telecom)
- Performance of the first year of the Digital Land Information Technology Development Project (Ministry of Land, Infrastructure and Transport)
- Selected as a joint research institution for ICT R&D Voucher Research Project (IITP)

2021

- MOU with Sinanju Tankers Holdings Co., Ltd. in China
- Execution of Private AI Information Service Expansion Project (NIPA)
- Selection for 2021 Global New Service Development Support Project (Cooperative Institution: Ulastech)
- Selected for the 4th Seoul Innovation Challenge (Finals) (SBA)
- Signing of Letter of Intent (LOI) for AISense Purchase with Kyrgyzstan University of Construction and Transportation

2020

- Obtained the 2021 Hi Seoul Certification
- Commendation from the Deputy Prime Minister and Minister of Planning and Finance for the promotion of the service industry
- Commendation from the Minister of Science and ICT for contributions to the promotion of research and industry
- MOU with Solideo Systems for Smart Space Management Technology Collaboration
- MOU with RipPay for DID Development Collaboration
- MOU for Technical Workforce Development Cooperation with Chungkang College of Cultural Industries, Sangil Media High School, and Yangyoung Digital High School.

2009~2019

- Building Blockchain-based ICT in SK Future Hall (SK Telecom)
- Renewal and Mobile Web Construction of Military e-Learning Website (Korea Armed Forces Welfare Association)
- Execution of Small and Medium-sized Enterprise Technology Innovation Development Project (TIPA)
- Reporting as a Professional Research Service Provider (Ministry of Science and ICT)

Core Technologies



Smartphone pattern authentication

- Proprietary Security Certification Technology
- Simple and Strong Personal Authentication



ReID

- Cost Reduction for Maintenance
- Facility Space Management
- Application of AI Unmanned Systems

Block chain



DID

- Self-identification Verification
- Accommodation of Untact Needs (Non-face-to-face Needs)



Kounosoft Co., Ltd.
<http://kounosoft.com>



Business Partner

